STORMWATER MANAGEMENT & FUNCTIONAL SERVICING REPORT

LORA BAY PHASE 4

DUNN CAPITAL CORPORATION
TOWN OF THE BLUE MOUNTAINS

PREPARED BY:

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CROZIER
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1.0 Introduction and Background

CF Crozier & Associates Inc. ("Crozier") was retained by Dunn Capital Corporation ("Owner") to provide engineering services to assess the preliminary site servicing and stormwater management strategies to support the Draft Plan approval of the Lora Bay Phase 4 development ("Site") in the Town of The Blue Mountains ("TOBM"). The 7.88 hectare (19.5 acre) property is bounded by the Lora Bay Golf Club course lands to the north, east, south and west and Lora Bay Phase 3 development to the southeast.

This report has been prepared to provide details associated with the preliminary servicing and stormwater design for the proposed development. Contained within this report is a review of the following:

1. Project background information
2. Description of the existing site conditions
3. Discussion of the existing and proposed systems:
    a) Road networks
    b) Sanitary sewage collection and conveyance
    c) Potable water distribution and fire protection
    d) Stormwater management controls
    e) Utility plants
4. Conclusions

The Site is located within the boundaries of the Lora Bay development area and was previously included as a developable block as part of the Master Development Agreement (October 17, 2005). The Site continues development from Phase 3, extending West Ridge Drive going west towards 39th Sideroad. The Site is legally described as Part of Blocks 1, 29, 30, Registered Plan 16M-8 within the Town of The Blue Mountains, County of Grey.

In preparing this report our office reviewed the following documentation:

1. "Geotechnical Investigation Proposed Lora Bay Development Highway 26 and 10th Concession Town of The Blue Mountains, Ontario" prepared by Terraprobe dated April 2004;
2. "Stormwater Management for Raven Golf at Lora Bay" prepared by Henderson, Paddon & Associates dated June 2004;
3. "Master Development Agreement" prepared by TOBM dated March 2005;
4. "Lora Bay Corporation Servicing Report for Phase 3 Residential Development, West of Roundabout and Adjacent to Sunset Blvd." prepared by Henderson, Paddon & Associates dated February 2007;
5. "Lora Bay – Phase 3 Water Distribution Report" prepared by Henderson, Paddon & Associates dated October 2007;
6. "Lora Bay Phase 3 Accepted for Construction Drawings" prepared by Henderson, Paddon & Associates dated March 2008; and,
7. "Annual Performance Report: Thornbury Wastewater Treatment Plant and Associated Collection System" prepared by TOBM 2017

Construction of the civil infrastructure (inclusive of roads, undergrounds and utilities) to service lots and blocks in Phase 3, located along West Ridge Drive, Landry Lane and McCallum Crescent, was completed in 2008. Sanitary and storm sewers and watermain were extended and installed beyond the existing west phase limit of West Ridge Drive and the intersection of Landry Lane. No underground servicing infrastructure exists along the frontage of the Site.

2.0 Site Description

2.1 Existing Conditions

The Site currently remains undisturbed and heavily treed. A gravel road extension of West Ridge Drive currently traverses through the south portion of the Site and is used by staff of the Lora Bay Golf Club for maintenance access purposes.

A geotechnical investigation was completed for the Lora Bay development area in 2004 by Terraprobe. Thirty-six (36) boreholes were advanced across proposed development lands located along East Ridge Drive and West Ridge Drive as part of this investigation. Borehole 32 and 33 were located closest to the Site limits. These Borehole logs both consisted of Sandy Silt overlying Clayey Silt. It should be noted that no geotechnical investigation has been completed within the Site limits.

The Site naturally drains from the southwest to the northeast, from the West Ridge Drive extension towards Hole 5 of the Lora Bay Golf Club along the Nipissing Ridge.

2.2 Development Proposal

The proposed Draft Plan will consist of 38 single detached dwellings and a medium density residential block (Block 39). Three (3) mid-rise buildings, totalling 36 units, is currently envisioned for this block, and development of this block will be subject to Site Plan approval as a separate future application. The midrise buildings will consist of four (4) storeys per building. Access to the development will be provided from West Ridge Drive, which was previously constructed as part of the Lora Bay Phase 3 civil works. A copy of the Draft Plan prepared by Patten Thomsen is included in the Figures section.

3.0 Road Network

3.1 Existing Road Network

Currently there is no existing open public roadway within the Site limits.

West Ridge Drive is a public roadway constructed with an urban cross section, including curb and gutter along the edges of the pavement and storm sewer system. It consists of an 8.5 m paved roadway surface within a 15 m wide right-of-way (ROW) limit. West Ridge Drive has been constructed to base course asphalt with a low point located at the 6 m wide overland drainage easement between Lot 12 and 13.

Currently the Site can be accessed via a 6 m wide gravel road extension of West Ridge Drive.

3.2 Proposed Road Network

West Ridge Drive will require an approximate 300 m extension west from the previous Phase 3 asphalt limits (the intersection with Landry Lane). The extension of this roadway will maintain the previous urban cross section consisting of curb and gutter and storm sewer system, however the width of the ROW will increase from 15 m to 20 m. The West Ridge Drive extension will traverse

through the south portion of the Site, with residential lots proposed on the north and south side of West Ridge Drive.

Access to the Site will occur from West Ridge Drive. The proposed Draft Plan includes a horseshoe road alignment ("Street A") for access to a majority of the Site. This roadway connects at two (2) locations to the proposed West Ridge Drive extension and consists of a 20 m ROW. Street A will consist of an urban cross section, and will be a public roadway. A turning movement analysis was completed, and it was confirmed that a WB-15 (transport truck) and an aerial fire truck can both safely traverse the alignment of the new proposed public roadway within the paved surface.

Drainage of the roadways will occur via storm sewer system and overland flow contained within the roadway during minor and major (>5 year) storm events. Preliminary roadway grading was completed by Crozier considering connections to existing/proposed roadways, preliminary drainage directions and existing grades along the property lines. Roadway grades range from 207.00 m to 218.40 m. Refer to Figure 1 for additional details on the road network and preliminary grading.

Block 39 in the Draft Plan will be a separate condominium development, and all roadway and parking within this condominium block will remain private.

4.0 Potable Water Servicing

4.1 Existing Water Distribution Network

Currently there is no watermain infrastructure within the Site limits.

A public watermain was installed along West Ridge Drive in 2008. The watermain is a 300mm dia. trunk watermain that was terminated, capped and braced immediately west of the Phase 3 development limits along West Ridge Drive. This watermain is aligned along the north and east side of the West Ridge Drive roadway. This watermain services development along West Ridge Drive, McCallum Crescent and Landry Lane within Lora Bay Phase 3.

A Water Distribution report was completed by Henderson, Paddon & Associates ("H & P") in October 2007 to assess required demands and fire flows necessary for the Lora Bay Phase 3 development. Fire flow demands were calculated for a 12 Unit Manor Home Block located at the high point of Landry Lane using the OBC and Fire Underwriter's Survey (FUS) methods. Based on the FUS calculations completed by H & P, the necessary fire flow required for Phase 3 was 123.75 L/s. It should be noted that the pressure located at the west terminus of the 300mm dia. watermain along West Ridge Drive was simulated to be 292 kPa under fire flow conditions for the Manor Home Block along Landry Lane. Refer to Appendix A for details regarding the calculations and previous modelling completed for the necessary water demands for Phase 3.

A Booster Station is located along 10th Line at the northwest corner of Highway 26 intersection. As discussed in the H & P Phase 3 Servicing report (February 2007), the original Booster Station was designed to supply a maximum of 85 L/s to Lora Bay, which was below the necessary fire flow calculated by H & P in the Water Distribution report (October 2007). H & P recommended upgrades to the existing Booster Station with construction of an in-ground 2,800 m^3 concrete reservoir. This would supply an additional 42.45 L/s of flow to the proposed Lora Bay developments. The TOBM has developed a comprehensive model of the municipal water distribution network, so Crozier will confirm with the TOBM staff available flows from the Booster Station during detailed design. Refer to excerpts from the H & P report in Appendix A for more information on these upgrades.

A hydrant is located on the north side of West Ridge Drive at the Phase 3 development limits.

4.2 Proposed Water Servicing Strategy

The new water works to be installed for Phase 4 will include both public and private infrastructure. All water servicing to the single detached homes along West Ridge Drive and Street A will be public infrastructure, whereas water servicing to the midrise buildings within Block 39 will be private infrastructure. Scope of works for the private watermain within Block 39 will be confirmed under a separate Site Plan Agreement.

4.2.1 Public Water Servicing for West Ridge Drive Extension & Street A Roadway

The public watermain system will consist of the extension of the 300mm dia. trunk watermain along West Ridge Drive with all associated appurtenances. This watermain will extend to the west limits of the Site and will be capped and braced immediately west of the paving limits of the West Ridge Drive extension. This watermain will follow the existing alignment within the roadway and will be located along the north edge of pavement.

A watermain will be sized to service the single detached dwellings along the internal Street A roadway based on the short method calculation for grouping of single detached dwellings per the FUS Note J shown in Appendix B. During detailed design phase, the Street A watermain will be added to the TOBM model to ensure it is sufficiently sized to provide required fire flow per TOBM Standards.

Individual services will be installed for every single detached dwelling within the Site as per TOBM Standards. Hydrants will be installed as per TOBM Standards. Watermain stub(s) will be provided to the ROW limits of Street A fronting Block 39 for future connections. Refer to Figure 2 regarding the alignment of the proposed internal watermains.

4.2.2 Private Water Servicing for Block 39 (Midrise Building Development)

It is currently proposed that the water system infrastructure for Block 39 will be private and will consist of a backflow preventer and bulk meter at the watermain connection stub(s) along Street A ROW fronting Block 39. Fire flow calculations have not been provided at this time for the midrise buildings as the configuration, layout, and construction methodology have not been finalized. This watermain will be sized during Site Plan Application process using the TOBM model and according to OBC and NFPA standards, and, if necessary, any required upgrades to the water distribution system (i.e. onsite fire storage) to obtain fire flow within Block 39 will be confirmed.

5.0 Sanitary Servicing

5.1 Existing Sanitary Sewage System

A sanitary sewer was installed along West Ridge Drive in 2008. The sanitary sewer is a 250mm dia. gravity trunk sewer that was terminated and plugged immediately west of the Phase 3 limits along West Ridge Drive. This sanitary sewer is aligned along the centreline of West Ridge Drive.

Original sizing of the sanitary sewers within the Lora Bay development area was completed by H & P as per the Phase 3 Servicing report (February 2007). Future development lands along West Ridge Drive and south of Georgian Trail were included as part of the overall Lora Bay sanitary sewer sizing. The sanitary sewer along West Ridge Drive and further downstream was sized accordingly as per the H & P Phase 3 report. Refer to Appendix C for copies of the H & P sanitary sewer design spreadsheets.

Sewage from Landry Lane, McCallum Crescent and West Ridge Drive within the Phase 3 development drains via gravity to an 11 m wide servicing easement located north of the east Landry Lane/West Ridge Drive intersection. Sewage is conveyed north via a 250mm dia. gravity sewer along the 11th Concession ROW allowance to Sunset Boulevard, and then east along Sunset Boulevard via a 375mm dia. trunk gravity sanitary sewer to the pumping station at the corner of Lora Bay Drive and Sunset Boulevard. Sewage is ultimately conveyed via forcemain from this location to the Thornbury WWTP. All of this infrastructure is or will be owned and maintained by the TOBM.

Per the Town's 2017 Year End Report, the WWTP is currently operating at 64% of its average daily flow rated capacity (2017 *Annual Performance Report: Thornbury Wastewater Treatment Plant and Associated Collection System*).

5.2 Proposed Sanitary Servicing Strategy

The available capacity at the stub, located at the west terminus of West Ridge Drive, was calculated to be 48.14 L/s per the H & P Phase 3 Servicing report. Crozier completed preliminary peak sanitary flow rate calculations for the Site. The peak sanitary flow rate for the Site is 5.54 L/s including infiltration; therefore, the sanitary sewer along West Ridge Drive is sufficiently sized to convey sanitary sewage from the Site and will not negatively impact the capacity of the existing downstream sewer network. Refer to Appendix D regarding sanitary sewer generation calculations for the Site.

The proposed internal sanitary sewer system for the Site will consist of a 200mm dia. gravity sanitary sewer discharging to the West Ridge Drive sanitary trunk sewer, and this sewer will be public infrastructure. Alignment of the sewers will follow the centreline of the proposed roadways. Individual gravity sanitary services will be installed for each unit as per TOBM Standards. The sanitary sewer along West Ridge Drive will be extended and capped immediately west of the Site limits for future connections. Refer to Figure 2 for the alignment of the proposed sanitary sewers.

A sewer will be extended into Block 39 to service all three (3) mid-rise buildings, and the sewer system within Block 39 will be privately owned and maintained. Sizing and alignment of the sewers will be subject to Building Code standards and will require a Plumbing Permit from the TOBM.

6.0 Stormwater Management & Site Drainage

Stormwater management for the Site will comply with the policies and standards of various agencies including the TOBM, Grey Sauble Conservation Authority, and Ministry of the Environment, Conservation & Parks (MOECP).

The stormwater management criteria that will be met within the proposed Site development are listed below:

- Water Quality Control
    - "Enhanced Protection" given Georgian Bay as the ultimate receiver
- Water Quantity / Peak Flow Control
    - No impacts to the downstream drainage network

The basis for the stormwater management strategy for the Site was identified by H & P in the reports listed in Section 2.0. This report will confirm that the drainage designs for the Site will follow the previously approved strategy and will be in general conformance with the H & P Master Drainage Report (June 2004).

6.1 Existing Drainage Conditions

Currently there is no storm sewer system within the Site to convey flows downstream of the Site.

A stormwater drainage system exists within the Lora Bay Golf Club lands and consists of underground subdrains and storm sewers. This external system currently collects drainage from the Site and south of the Site and conveys it to the existing Regional Stormwater Management Pond ("SWM Pond No. 1") via storm sewers and overland flow routes. SWM Pond No. 1 is located south of Sunset Boulevard and east of 11th Concession ROW along Holes 2 and 3 of the Lora Bay Golf Club.

The majority of external drainage generated south of the Site, during minor storm events (up to and including the 5-year storm event), drains and discharges to SWM Pond No. 1 via a 750mm dia. trunk concrete storm sewer. Approximately 107 ha of undeveloped area was proposed to drain to DIMH 100 located at the west terminus of Phase 3 along West Ridge Drive storm sewer system as per H & P Servicing report (February 2007). Major storm events (>5 year) are conveyed overland along West Ridge Drive within the ROW to a design sag (overland outlet). A natural "cut" in the Nipissing Ridge is located north of this West Ridge Drive low point. Major storm events are conveyed overland along the cut and discharge directly into SWM Pond No. 1. Per H & P Master SWM report (June 2004), 303 ha of the Lora Bay area discharge to SWM Pond No. 1. Refer to Appendix E for excerpts from the H & P Master Drainage report.

SWM Pond No. 1 was constructed to control the 2 through to and including the 100-year storms from post- to pre- conditions during the 3 Hr CHI storm events. These storm events in the H & P SWM model simulated the highest peak flow rate in the post-development conditions. SWM Pond No. 1 outlets to a manmade boulder channel called "Boulder Creek" for approximately 175m before flowing under Sunset Boulevard via a cross culvert. This existing crossing is a 2060mm x 1500mm CSP Arch culvert. Stormwater eventually discharges directly to Georgian Bay downstream of the culvert.

6.2 Proposed Drainage Conditions

The Site will drain towards West Ridge Drive via storm sewer systems and overland flow routes in the minor and major (>5 year) storm events, respectively. Preliminary grading of the roadway has been completed for the Site. To conservatively assess the existing downstream stormwater features and structures, it has been assumed that "rear to front" drainage occurs for all the proposed lots.

To maintain external drainage paths south of Phase 3 to existing DIMH 100, a 10m wide drainage easement (Block 40) has been included in the Draft Plan along the east property line of proposed Lot 26. This drainage easement will allow drainage to continue flowing overland to DIMH 100 located along West Ridge Drive as previously noted in the H & P Phase 3 Servicing report.

External drainage currently draining through the north portion of the Site is assumed to be captured by the Site storm system and directed towards the West Ridge Drive storm system via storm sewers and overland flow routes. Refer to Figures 3 and 4 regarding the existing and proposed drainage conditions of the Site within the Lora Bay watershed. All storm infrastructure within the West Ridge Drive extension and Street A will ultimately be assumed and maintained by the TOBM, while the drainage systems in Block 39 are currently proposed to remain as private infrastructure.

As the Site drains into existing storm systems downstream, Crozier has completed preliminary capacity assessments of the following infrastructure:

1. West Ridge Drive Storm Sewer;
2. SWM Pond No. 1 Existing Storage Capacity;

3. SWM Pond No. 1 Outlet Channel Capacity; and,
4. Sunset Boulevard Culvert Capacity & Overtopping.

Refer to Section 6.2.1 to 6.2.4 below regarding these preliminary assessments.

6.2.1 West Ridge Drive Storm Sewer Capacity Assessment

A 750mm dia. trunk storm sewer exists along the south edge of pavement of West Ridge Drive. This storm sewer was sized by H & P in the Phase 3 Servicing report using the Rational Method for the 5-year storm event as per previous TOBM Standards. This storm sewer was sized assuming undeveloped conditions of the external drainage area, including the Site.

In the H & P Phase 3 Servicing report, it was assumed that the drainage area for the Site consisted of the Site and Hole 6 within the Lora Bay Golf Club and was denoted as "UA4". H & P calculated the runoff coefficient ("C"), length of flow path and slope of the flow path for all drainage areas contributing to the West Ridge Drive storm sewer system. Refer to the storm sewer design sheet in Appendix E for additional details.

A runoff coefficient was calculated for the Site, including Hole 6 of the Lora Bay Golf Club, per the current TOBM Standards. The overall runoff coefficient calculated by Crozier is based on a weighted average with the runoff coefficients for the developed area and the Lora Bay Golf Club being 0.55 and 0.3, respectively. The results are presented in Table 1.

Table 1: Comparison of Area Runoff Coefficients (2007 H & P VS 2018 Crozier)

Area ID	Area (ha)		Runoff Coefficient (C)		Weighted Coefficient (AC)	
	HP 2007	CFCA 2018	HP 2007	CFCA 2018	HP 2007	CFCA 2018
UA4	13.1	13.1	0.3	0.45	3.93	5.895

The results from Table 1 were used to assess the capacity of the existing 750mm dia. storm sewer along West Ridge Drive to accommodate design flows from the Site. It was determined that this storm sewer along West Ridge Drive will begin surcharging downstream of DIMH 100 and is incapable of conveying all of the 5-year storm event volume. Refer to Appendix F regarding the storm sewer capacity assessment calculations.

To mitigate impacts on the downstream storm sewer, onsite controls will be necessary to manage peak flow rates from the Site in the 5-year storm event. The type, location, and size of these controls will be confirmed during detailed design.

6.2.2 SWM Pond No. 1 Capacity Assessment

A re-assessment of the drainage patterns and stormwater flow rates for the Lora Bay watershed was originally completed by Crozier as part of the approvals of the Cottages at Lora Bay Phase 3 project in April 2018. This model has been previously reviewed and accepted and accepted by the GSCA and the TOBM, and it has been modified to assess the current and future capacity of SWM Pond No. 1 in the pre- and post-development conditions of the Site.

The previous model completed by H & P in the Master SWM report combined multiple development areas (including the Site) into one (1) catchment area denoted as "A4". The proposed outlet for this catchment area was SWM Pond No. 1, and while the Site was included as a portion of this drainage area, it was not modelled as a separate catchment area. Allowable peak flow rates in the

uncontrolled post-development conditions for the Site were calculated using unit flow rates for area A4. Allowable peak flow rates based on the H & P Master SWM model results are presented in Table 2.

Table 2: Peak Unit Flow Rates (H & P Post-Development SWM Model - Catchment A4)

Storm Event (3 Hr CHI)	Peak Flow Rate (m^3/s) [1]	Total Area (ha)	Unit Flow Rate ($m^3/ha/s$)	Allowable Peak Flow (m^3/s) [2]
2	0.1253	35.55	0.004	0.028
5	0.3085	35.55	0.009	0.068
10	0.447	35.55	0.013	0.099
25	0.8071	35.55	0.023	0.179
50	0.8326	35.55	0.023	0.185
100	1.0564	35.55	0.030	0.234

1. Simulated peak flow rates from the controlled post-development H & P SWM model in the Master SWM report.
2. Allowable Peak Flow Rate for the Site based on unit flow rate multiplied by Site area (7.88 ha).

Refer to Appendix E regarding the original drainage area delineation and modelling completed by H & P in the Master SWM report.

A SWM HYMO model using current standard modelling practices was simulated by our office to compare the Site post-development uncontrolled peak flow results with the allowable uncontrolled peak flows simulated from the H & P Master SWM modeling. The results and comparison with the proposed peak flows from H & P is shown in Table 3.

Table 3: Lora Bay Phase 4 Peak Flow Rates Comparison (2004 H & P vs 2018 Crozier)

Storm Event	Allowable Peak Flow (m^3/s) 3 Hr CHI Storm H & P 2004	Peak Flow (m^3/s) 6 Hr CHI Storm Crozier 2018	Peak Flow (m^3/s) 24 Hr SCS Type II Storm Crozier 2018
2	0.028	0.347	0.542
5	0.068	0.535	0.872
10	0.099	0.727	1.063
25	0.179	0.882	1.381
50	0.185	0.962	1.612
100	0.234	1.134	1.881
Regional	No Modelling Completed	0.865	

In all storm events, the peak flow rate is significantly higher than the previously modelled results by H & P in the Master SWM report.

A capacity assessment of SWM Pond No. 1 was completed as part of this report to review the capacity during the 6 Hr CHI and 24 Hr SCS Type II storm events per TOBM Standards in the pre- and

post-development conditions of the Site. This was completed for the 2 up to and including the 100 year and the Regional (Timmins) storm events.

Based on the updated model, SWM Pond No. 1 begins overflowing in the pre- and post-development conditions during the 50-year SCS storm event. Although the Site will contribute greater peak flows in every storm event than the previous model completed by H & P, the Site will not affect the current functionality of SWM Pond No. 1. Excess flows will spill onto Hole 2 of the Lora Bay Golf Club as originally proposed and designed by H & P.

Refer to Appendix F for the SWM HYMO model inputs and results.

6.2.3 SWM Pond No. 1 Outlet Capacity Assessment

A capacity assessment of the downstream Boulder Creek outlet for SWM Pond No. 1 was completed using the peak flow rates simulated at the Sunset Boulevard outlet. The storage-discharge curve presented in the H & P Master SWM report, as shown in Appendix E, was used to determine outlet peak flows from SWM Pond No. 1. The peak flow rates discharging from SWM Pond No. 1 are shown in Table 4.

Table 4: SWM Pond No. 1 Outlet Peak Flow Rates (2004 H & P vs 2018 Crozier)

Storm Event	Allowable Peak Flow (m^3/s) 3 Hr CHI Storm H & P 2004	Peak Flow (m^3/s) 6 Hr CHI Storm Crozier 2018	Peak Flow (m^3/s) 24 Hr SCS Type II Storm Crozier 2018
2	0.1003	1.014	1.113
5	0.8666	2.540	2.649
10	1.7086	4.158	3.617
25	4.0226	5.686	5.227
50	4.1416	9.083	8.821
100	5.5968	13.211	12.482
Regional	No Modelling Completed	17.506	

In all storm events, the peak flow rate is significantly higher than the previously modelled results by H & P. As previously noted, SWM Pond No. 1 begins overflowing in the 50-year SCS event.

Downstream of SWM Pond No. 1, additional stormwater runoff from a portion of Lora Bay Phase 3, Lora Bay Golf Club and Cottages at Lora Bay Phase 3 lands combines with SWM Pond No. 1 outlet discharge. The total peak flow at the Sunset Boulevard outlet is shown in Table 5.

Table 5: Sunset Boulevard Outlet Peak Flow Rates Comparison (2004 H & P vs 2018 Crozier)

Storm Event	Allowable Peak Flow (m^3/s) 3 Hr CHI Storm H & P 2004	Peak Flow (m^3/s) 6 Hr CHI Storm Crozier 2018	Peak Flow (m^3/s) 24 Hr SCS Type II Storm Crozier 2018
2	0.1003	1.055	1.160
5	0.8666	2.612	2.725
10	1.7086	4.253	3.709
25	4.0226	5.814	5.343
50	4.1416	9.325	9.000
100	5.5968	13.594	12.821
Regional	No Modelling Completed	18.405	

Boulder Creek capacity was assessed for the Regional storm event. Using existing survey data and the proposed grading plan of the Cottages at Lora Bay Phase 3 development, four (4) cross sections of Boulder Creek were assessed, three (3) upstream and one (1) downstream of Sunset Boulevard. As shown in Appendix F, Boulder Creek will contain and convey the Regional storm event to Sunset Boulevard; therefore, upgrades to Boulder Creek upstream of Sunset Boulevard will not be necessary as part of the Site development.

Overtopping of the existing banks downstream of Sunset Boulevard will occur in the Regional storm event.

6.2.4 Sunset Boulevard Culvert Capacity Assessment & Overtopping

An existing 2060mm x 1500mm CSP Arch Culvert is currently located across Sunset Boulevard and provides an outlet to Georgian Bay for the Lora Bay SWM Pond No. 1. Discharge from this culvert traverses downstream where it eventually discharges into Georgian Bay.

This existing cross culvert can convey approximately 5.7 m^3/s of peak flow. The peak flow rate in the 25-year CHI storm event is 5.8 m^3/s (modelled by Crozier), resulting in a minimal deviation from the existing capacity of this culvert. This meets current TOBM Standards for stormwater conveyance under a roadway; therefore, modifications to the current culvert will not be required as part of the Site Works. Refer to Appendix F for capacity assessment calculations of the Sunset Boulevard culvert.

Beyond the 25-year storm event, stormwater runoff will be conveyed overland across the Sunset Boulevard roadway platform. Currently, a low point for the roadway is located west of the culvert. Crozier assessed the potential overtopping of Sunset Boulevard as part of this report. The depth of flow over the Sunset Boulevard is 0.13 m at 0.71 m/s in the 100-year storm event, conforming to Town Standards for a rural road. The Regional storm event overtops Sunset Boulevard at a depth of 0.18 m at 0.71 m/s.

6.3 Stormwater Quality Control

Water quality controls per the MOECP's guidelines for the Lora Bay development, including the Site, are provided by SWM Pond No. 1.

7.0 Utilities

The Site will be serviced with telephone, cable TV, gas and hydro. All such utilities have been contacted, and each utility has confirmed that there are existing facilities available in the area to service the site.

8.0 Conclusions

The qualitative and quantitative analysis presented herein provides a comprehensive servicing and stormwater management assessment of the proposed servicing and storm systems for the Site. The following conclusions have been reached.

1. A 20 m ROW is proposed for the public roadways, including the West Ridge Drive extension, and will consist of an urban cross section consisting of curb and gutter and storm sewer system.
2. A 300mm dia. public watermain will be extended from the west limits of Lora Bay Phase 3 to the west limits of the Site along West Ridge Drive extension. Sizing of the remaining watermains on Street A will be completed as part of detailed design, and additional watermain modelling and hydrant testing will be required. Fire flows will be determined based on the short method calculations for grouping of single detached dwellings as per the FUS.
3. A private watermain network, consisting of a backflow preventer and bulk water meter, will service Block 39. The watermains in this Block will be sized to provide the required fire flows as part of the approval process for the Block 39 Site Plan Application.
4. A 250mm dia. public sanitary sewer will be extended from west limits of Lora Bay Phase 3 to the west limits of the Site along West Ridge Drive extension. The existing sanitary sewer downstream of Lora Bay Phase 4 is sufficiently sized to convey the proposed sewage generated. A 200mm dia. sanitary sewer will be required for the remainder of the Site on Street A. Private sanitary sewers will be installed in Block 39 and will be designed according to applicable standards.
5. Internal preliminary grading has been completed to maintain existing elevations of the Site. It has been assumed that all lots/blocks will drain towards the proposed roadway and ultimately to SWM Pond No. 1. Overall master grading will be completed during detailed design.
6. The existing 750mm dia. storm sewer downstream of the Site along West Ridge Drive will begin surcharging downstream of DIMH 100. Onsite controls will be required to maintain proposed peak flow rates downstream of the Site.
7. SWM Pond No. 1 was originally sized to control the 2 through to and including the 100-year 3 Hr CHI storm events post- to pre-development conditions. Using current modelling standards and methodology, it was observed that SWM Pond No. 1 will begin overtopping in the pre-development 50-year SCS storm event. Development of the Site does not impact the existing operating conditions of SWM Pond No. 1 in the uncontrolled post-development conditions.
8. Boulder Creek downstream of SWM Pond No. 1 will convey and contain the Regional storm event to Sunset Boulevard.
9. The existing Sunset Boulevard culvert is sufficiently sized to convey the 25-year storm event under Sunset Boulevard, conforming to current TOBM standards. Overtopping of Sunset Boulevard will occur beyond the 25-year storm event, however will conform to the current TOBM Standards for a rural road during the 100-year and Regional storm events.

10. Water quality controls for the Site will be provided by SWM Pond No. 1.

Therefore, we recommend approval of the Planning Applications for the Site from the perspective of engineering services and drainage requirements.

Respectfully submitted,

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Appendix A

H & P Water Modelling and Design

1.0 INTRODUCTION

As part of the design of the site servicing for Phase 3 of the Lora Bay Corporation (Lora Bay) Development, Henderson Paddon & Associates Ltd. (HPA) conducted computer modeling of the proposed water servicing. Water supply for Phase 3 and future phases depends on the extension of the existing Town of The Blue Mountains (Town) 300mm diameter trunk watermain from just west of the present terminus at the roundabout on Lora Bay Drive.

At the time of the writing of this report, the Town's booster station, just north of Highway No. 26, has been commissioned. This station boosts the Town's designed pressure point of approximately 243.5m to 256.4m in the first phase. The booster station in Phase 1 design is to provide a fire flow of 85 lps plus a maximum day flow of 16.47 lps at the design head of 256.40m. Supply water is being drawn from the Town's existing 300mm diameter trunk watermain from Peel Street through the Trail Woods Subdivision to the 10th Line Booster Station.

The ultimate or Phase 2 Booster Station design calls for the construction of an in-ground 2,800 m^3 concrete reservoir to be constructed adjacent to the west wall of the existing booster station. The station booster pump will draw water from the reservoir rather than the Town's existing trunk watermain system. The Phase 2 Booster Station design is to deliver a fire flow of 85 lps plus a maximum day demand of 42.45 lps at a hydraulic grade line of 269.20m out of the booster station.

In April and May 2007, Vipond Canada and the Town of The Blue Mountains staff conducted hydrant/pressure testing of the existing 300mm diameter trunk watermain. The test location was at the East Ridge and Hoggart Court intersection with residual pressures recorded at East Ridge and Rankin's Crescent. The testing undertaken in May 2007 uncovered a problem with the adequacy of the feed system to the booster station via the Town's trunk watermains.

The above noted testing was intended to confirm the actual capacity of the existing system as it related to development at Keeper's Cove. At the time of the confirmation testing, Keeper's Cove Development proposal contained four (4) and six (6) unit buildings as well as the existing Recreation Centre at the site. The Town required that the proponents water distribution system be able to deliver the Fire Underwriter's Survey Fire Flows and therefore required OBC and FUS flows for various buildings was provided.

3.0 FLOW / PRESSURE TESTING AND COMPARISON WITH MODEL (EPANET 2.0)

As was discussed in Section 1.0, flow/pressure testing was conducted by Vipond Canada along with Town Staff in April and May of 2007. The purpose of the testing was to verify the actual flows from pressures that the existing system could deliver to the area just east of the roundabout area at Lora Bay Drive. In addition, the existing system capacity and residual pressures, the information gathered was used to "calibrate" or "verify" the EPANET 2.0 model which was created from "Record Drawings" for the system from the booster station westerly.

On April 26, 2007, Vipond Canada, along with staff of the Town of The Blue Mountains Water Department, conducted flow testing/residual pressure readings of the existing distribution system which the Booster Station at the 10th Line supplied for various flow conditions. References to junction numbers are those junctions numbers, etc. which have been shown on Drawing No. 307005-REF2 which is contained in the back pocket of this report.

The hydrant at Junction 113 (intersection of East Ridge and Hoggart Court) was used as the flowing hydrant with residual pressures being measured at Junction 112 which is the fire hydrant located at the intersection of East Ridge and Rankin Crescent.

The following are the measurements recorded during the flow test.

Test No.	No. of Nozzles	Nozzle dia. (mm)	Discharge Coefficient	Residual Pressure (kPa)	Pitot Pressure (kPa)	Discharge (lps)
1	1	28.4	0.90	414	455	19.19
2	1	44.4	0.90	405	405	43.69
3	1	63.5	0.90	379	345	75.13
4*	2	63.5	0.90	193	152	99.75

* At this flow, the Booster Pumping Station shut down due to a low suction pressure on the suction side of the booster pumps.

4.0 FIRE UNDERWRITER'S SURVEY (FUS) AND ONTARIO BUILDING CODE (OBC) REQUIRED FIRE FLOWS

The following are the detailed calculations of FUS and OBC required fire flows for the proposed buildings in Phase 3 of the Lora Bay Development. There are no final building designs at the time of the writing of this report however, preliminary building construction and sizes have been provided by the Lora Bay Corporation and have been used in the development of the required flows.

.1 Fire Underwriters Survey Fire Flow Calculations

.1 Four (4) Unit Villa - 2 Storey

- $F=220 \times C \times \sqrt{A}$

where: F=Fire Flow in lpm
C=1.0 (ordinary construction)
A=775m^2

$F = 220 \times 1.0 \times \sqrt{775}$

= 6,125 lpm

= 6,000 lpm (rounded to nearest 1000 lpm)

- Reduction for Occupancy (25% for residential)

$F = 6,000 - (6,000 \times 0.25)$

= 4,500 lpm

- Reduction for Sprinklers (none provided)

= 0%

- Charge for Exposures

2 Sides @ 3.1 to 10.0m	= 20% x 2 = 40%
1 Front @ 10.1 to 20.0m	= 15% x 1 = 15%
	Total = 55%

charge is 55% of 4,500 lpm = 2,475 lpm

- Required Fire Flow (F)

F = 4,500 - 0 + 2,475 = 6,975 lpm (116.25 lps)

.2 Manor Homes - 12 units & 3 storey

- $F=220 \times C \times \sqrt{A}$

where: F=Fire Flow in lpm
C=0.80 (non-combustible)
A=2,850 m^2

$F = 220 \times 0.80 \times \sqrt{2,850}$

= 9,396 lpm

= 9,000 lpm

- Reduction for Occupancy (25% for residential)

F = 9,000 - (9,000 x 0.25)

= 6,750 lpm

- Reduction for Sprinklers (30% for adequate system plus 10% for standard connections)

= 40%

Reduction = 0.40 x 6,750 = 2,700 lpm

- Charge for Exposures

2 Sides @ 3.1 to 10.0m	= 20% x 2 = 40%
1 Front @ 20.1 to 30.0m	= 10% x 1 = 10%
	Total = 50%

charge is 50% of 6,750 lpm = 3,375 lpm

- Required Fire Flow (F)

= 6,750 - 2,700 + 3,375 = 7,425 lpm (123.75 lps)

.2 Ontario Building Code (OBC) Fire Flow Calculations

.1 Four (4) Unit Villa - 2 Storey (Volume = 3,752m^3)

- $Q=K \times V \times S_{TOT}$

where: Q=Volume of water in litres
K=Coefficient (Table 1;A-3.2.5.7)
V=Volume of Building in m^3
S_{TOT}=Spatial Coefficient (Fig. 1; A-3.2.5.13)

$Q = 18 \times 3,752 \times 2.0$

$= 135,072$ litres

From Table 2; A-3.2.5.7, the required minimum water supply rate = 4,500 lpm (75 lps)

.2 Manor Homes - 12 unit, 3 Storey (Volume = 11,520m^3) Non-Combustible Construction

- $Q=K \times V \times S_{TOT}$

where: Q=Volume of water in litres
K=Coefficient (Table 1;A-3.2.5.7)
V=Volume of Building in m^3
S_{TOT}=Spatial Coefficient (Fig. 1; A-3.2.5.13)

$Q = 10 \times 11,500 \times 1.40$*

$= 161,000$ litres

From Table 2; A-3.2.5.7, the required minimum water supply rate = 4,500 lpm (75 lps)

* Must keep minimum side yard setbacks at 8.0m (minimum)

.3 Summary of Required Fire Flows

The following table summarizes the requirements of the OBC and FUS as far as fire flows are concerned:

Summary of Required Fire Flows (lps)

	Building Type	Fire Underwriters Survey	Ontario Building Code
1.	Single Family Detached	66.67	45.0
2.	Four (4) Unit Villas	116.25	75.0
3.	Manor Homes	123.75	75.0

Note: All flows to have a minimum residual pressure of 140 kPa at fire flow rate

Maximum Day + Fire Flow @ Junction 160 (Manor Home Blocks)

Network Table - Nodes

Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m
Junc 2	183.0	2.3986	2.40	234.76	51.76
Junc 3	186.7	0.1432	0.14	234.73	48.03
Junc 5	188.0	0.0716	0.07	234.72	46.72
Junc 6	187.7	0.0176	0.02	234.71	47.01
Junc 7	188.8	0.3222	0.32	234.70	45.90
Junc 8	189.6	0.3222	0.32	234.70	45.10
Junc 9	190.8	0.7160	0.72	234.70	43.90
Junc 10	190.8	0.6086	0.61	234.70	43.90
Junc 11	188.3	.236	0.24	234.71	46.41
Junc 12	187.4	0.3938	0.39	234.71	47.31
Junc 13	190.2	0.7876	0.79	234.71	44.51
Junc 16	190.6	0.1074	0.11	234.71	44.11
Junc 4	185.7	.0358	0.04	234.73	49.03
Junc 17	183.2	6.838	6.84	234.72	51.52
Junc 18	184.3	0.1432	0.14	234.73	50.43
Junc 19	183.4	0.2506	0.25	234.73	51.33
Junc 20	185.2	.2148	0.21	234.73	49.53

Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m
Junc 21	187.1	.2148	0.21	234.70	47.60
Junc 22	191.1	0.8592	0.86	234.70	43.60
Junc 23	191.1	0.1432	0.14	234.70	43.60
Junc 24	190.9	0.1432	0.14	234.70	43.80
Junc 25	190.7	0.2864	0.29	234.70	44.00
Junc 26	190.2	0.2148	0.21	234.70	44.50
Junc 27	190.4	0.4654	0.47	234.71	44.31
Junc 28	189.22	0.1790	0.18	234.71	45.49
Junc 29	185.5	0.1074	0.11	234.71	49.21
Junc 30	185.1	0	0.00	234.71	49.61
Junc 31	185.0	0.3938	0.39	234.71	49.71
Junc 32	188.4	0.3222	0.32	234.71	46.31
Junc 33	187.9	0.1074	0.11	234.71	46.81
Junc 14	190.5	1.5000	1.50	234.70	44.20
Junc 15	186.5	0	0.00	234.72	48.22
Junc 36	204.5	0	0.00	243.51	39.01
Junc 37	204.5	0	0.00	236.20	31.70
Junc 101	199.0	0	0.00	269.18	70.18

Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m
Junc 102	199.0	0	0.00	268.75	69.75
Junc 103	201.0	0.0358	0.04	267.66	66.66
Junc 104	204.82	0.1790	0.18	259.93	55.11
Junc 105	205.09	0.2864	0.29	259.32	54.23
Junc 106	206.40	0.1432	0.14	258.40	52.00
Junc 107	208.22	0.0358	0.04	257.09	48.87
Junc 108	209.65	0.4296	0.43	255.15	45.50
Junc 109	211.15	0.1432	0.14	252.46	41.31
Junc 110	210.48	0.1432	0.14	251.19	40.71
Junc 111	210.80	0.3580	0.36	250.01	39.21
Junc 112	211.70	0.3580	0.36	247.92	36.22
Junc 113	210.75	0.0716	0.07	246.08	35.33
Junc 114	210.47	0.0	0.00	244.80	34.33
Junc 115	208.20	0.0	0.00	243.51	35.31
Junc 116	210.35	0.0358	0.04	254.51	44.16
Junc 117	211.30	0.2148	0.21	253.56	42.26
Junc 118	213.17	0.3938	0.39	252.44	39.27
Junc 119	214.20	0.4654	0.47	251.20	37.00

346 kPa

Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m
Junc 120	214.79	0.4654	0.47	250.03	35.24
Junc 121	215.84	0.1432	0.14	249.04	33.20
Junc 122	219.73	0.6086	0.61	249.04	29.31
Junc 123	214.13	0.1432	0.14	247.98	33.85
Junc 124	217.70	0.5012	0.50	247.28	29.58
Junc 125	214.53	0.3580	0.36	246.85	32.32
Junc 128	209.15	0.0	0.00	244.80	35.65
Junc 127	209.15	0.0	0.00	244.80	35.65
Junc 129	208.38	0.0	0.00	244.80	36.42
Junc 130	206.0	0.0	0.00	244.80	38.80
Junc 131	206.80	0.0	0.00	244.80	38.00
Junc 132	205.0	0.0	0.00	244.80	39.80
Junc 133	206.70	0.0	0.00	244.80	38.10
Junc 134	206.70	0.0	0.00	244.80	38.10
Junc 135	206.40	0.0	0.00	244.80	38.40
Junc 136	209.0	0.0	0.00	244.80	35.80
Junc 137	205.95	0.0	0.00	244.80	38.85
Junc 138	209.78	0.0	0.00	244.80	35.02

Node ID	Elevation m	Base Demand LPS	Demand LPS	Head m	Pressure m	
Junc 150	206.0	0.001	0.00	241.92	35.92	352 kPa
Junc 151	202.0	0.2148	0.21	240.22	38.22	374 kPa
Junc 152	201.1	0.3580	0.36	238.93	37.83	370 kPa
Junc 153	203.5	0.0	0.00	237.65	34.15	334 kPa
Junc 154	205.4	0.5370	0.54	237.12	31.72	310 kPa
Junc 155	206.7	0.4296	0.43	236.54	29.84	292 kPa
Junc 156	208.3	0.1790	0.18	234.93	26.63	261 kPa
Junc 157	211.55	0.1074	0.11	233.44	21.89	214 kPa
Junc 158	213.2	0.1432	0.14	231.89	18.69	183 kPa
Junc 159	215.15	0.6802	0.68	229.51	14.36	141 kPa
Junc 160	215.35	124.2154	124.22	228.39	13.04	128 kPa TOBM Standard (140kPa)
Junc 161	214.70	0.2148	0.21	229.39	14.69	144 kPa
Junc 162	205.30	0.8232	0.82	235.08	29.78	291 kPa
Tank 126	199.0	#N/A	-151.96	269.20	70.20	

6.0 CONCLUSIONS

The following are our conclusions with respect to the proposed water distribution system for Phase 3 of the Lora Bay Development:

1. The Ontario Building Code (OBC) required fire flows of 75 lps at the proposed four (4) unit Villas, twelve (12) unit Manor Homes and 66.67 lps at single family homes can be met with the existing 1st Phase Booster Station (256.40m), proposed and existing distribution systems during the maximum day condition. Residual pressures will exceed the minimum 140 kPa in all cases.

2. The maximum static pressure will exceed the OBC criteria for most of Phase 3 when the 2nd Phase Booster Station design (269.20m) is constructed and therefore individual PRV's at dwelling units will be required.

3. The Fire Underwriter's Survey (FUS) required fire flow of 123.75 lps at the proposed Manor Homes can be delivered by the proposed 2nd Phase Booster Station (269.20m) assuming that the reservoir will be constructed adjacent to the existing Booster Station. The residual pressure of 128 kPa at the Manor Home site during theoretical maximum day demand and the calculated fire flow, although below the minimum 140 kPa, should be sufficient without having to provide additional head and/or additional watermains to deliver flow to that site.

4. All the calculated OBC and FUS fire flows are subject to final design, sizing and construction type of the multi-unit buildings.

5. The provision of maximum day flows and fire flows beyond Phase 3 into the undeveloped portions of the Lora Bay Service Area, will be addressed in a study being undertaken by the Town.

Report Prepared by:
HENDERSON PADDON & ASSOCIATES LTD.

LICENSED PROFESSIONAL ENGINEER
D.M. ROBINS
Oct. 11/07
PROVINCE OF ONTARIO

J.S. West, CET, Vice President

D. M. Robins, P.Eng., Civil Engineer, Associate

W300 EXISTING WATERMAIN AND SIZE (mm)

W300 PROPOSED WATERMAIN AND SIZE (mm)

W300 FUTURE WATERMAIN AND SIZE (mm)

370 kPa PRESSURE AT POINT IN KILOPASCALS

FF= 123.75 lps FIRE FLOW LOCATION IN LITRES PER SECOND

W250
SUNSET BLVD
LORA BAY DRIVE
KEEPER'S COVE
2nd HOLE
STORMWATER MANAGEMENT POND
3rd HOLE
1st HOLE
4th HOLE
7th HOLE
8th HOLE
PARK
W300
WEST RIDGE DRIVE
McCULLUM CRESCENT
LANDRY LANE
W200
VILLA (4 UNITS)
MANOR HOMES (12 UNITS)
GOLF ACADEMY
CLUBHOUSE
PRV (EXIST)
EAST RIDGE
ROUNDABOUT

370 kPa
334 kPa
374 kPa
310 kPa
352 kPa
291 kPa
346 kPa
292 kPa
128 kPa
261 kPa
214 kPa
183 kPa
144 kPa
141 kPa

FF= 123.75 lps

THE LORA BAY CORPORATION - PHASE 3 DEV.
PROPOSED WATER SERVICING

RESIDUAL PRESSURES WITH MAX DAY FLOW PLUS FIRE FLOW OF 123.75 lps @ MANOR HOMES WITH 2nd PHASE BOOSTER STN.(269.20m)

DESIGN	JSW
DRAWN	BRG
APPROVED	–
DATE	OCTOBER 07
SCALE	1:3000
FILE No.	307005
FIG. No.	7

HENDERSON PADDON
& ASSOCIATES LIMITED
CIVIL & ENVIRONMENTAL ENGINEERING CONSULTANTS
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J:\c0B FILES\2007\307005\Drwg\misc\Figures\Oct-07 Submission Figures\fig7.dwg Oct 11, 2007 - 11:02am

Appendix B

Fire Underwriter's Survey Calculations

WATER SUPPLY
FOR
PUBLIC FIRE PROTECTION

1999

FIRE UNDERWRITERS SURVEY

A SERVICE TO INSURERS AND MUNICIPALITIES

Notes to Calculation

Note A: The guide is not expected to necessarily provide an adequate value for lumber yards, petroleum storage, refineries, grain elevators, and large chemical plants, but may indicate a minimum value for these hazards.

Note B: Judgment must be used for business, industrial, and other occupancies not specifically mentioned.

Note C: Consideration should be given to the configuration of the building(s) being considered and accessibility by the fire department.

Note D: Wood frame structures separated by less than 3 metres shall be considered as one fire area.

Note E: Fire Walls: - In determining floor areas, a fire wall that meets or exceeds the requirements of the current edition of the National Building Code of Canada (provided this necessitates a fire resistance rating of 2 or more hours) may be deemed to subdivide the building into more than one area or may, as a party wall, separate the building from an adjoining building.

Normally any unpierced party wall considered to form a boundary when determining floor areas may warrant up to a 10% exposure charge.

Note F: High one storey buildings: When a building is stated as 1=2, or more storeys, the number of storeys to be used in the formula depends upon the use being made of the building. For example, consider a 1=3 storey building. If the building is being used for high piled stock, or for rack storage, the building would probably be considered as 3 storeys and, in addition, an occupancy percentage increase may be warranted.

However, if the building is being used for steel fabrication and the extra height is provided only to facilitate movement of objects by a crane, the building would probably be considered as a one storey building and an occupancy credit percentage may be warranted.

Note G: If a building is exposed within 45 metres, normally some surcharge for exposure will be made.

Note H: Where wood shingle or shake roofs could contribute to spreading fires, add 2,000 L/min to 4,000 L/min in accordance with extent and condition.

Note I: Any non-combustible building is considered to warrant a 0.8 coefficient.

Note J: Dwellings: For groupings of detached one family and small two family dwellings not exceeding 2 stories in height, the following short method may be used. (For other residential buildings, the regular method should be used.)

Exposure distances	Suggested required fire flow	
	Wood Frame	Masonry or Brick
Less than 3m	See Note "D"	6,000 L/min
3 to 10m	4,000 L/min	4,000 L/min
10.1 to 30m	3,000 L/min	3,000 L/min
Over 30m	2,000 L/min	2,000 L/min

If the buildings are contiguous, use a minimum of 8,000 L/min. Also consider Note H.

OUTLINE OF PROCEDURE

A. Determine the type of construction.

B. Determine the ground floor area.

C. Determine the height in storeys.

D. Using the fire flow formula, determine the required fire flow to the nearest 1,000 L/min.

E. Determine the increase or decrease for occupancy and apply to the value obtained in D above. Do not round off the answer.

F. Determine the decrease, if any, for automatic sprinkler protection. Do not round off the value.

G. Determine the total increase for exposures, Do not round off the value.

H. To the answer obtained in E, subtract the value obtained in F and add the value obtained in G.

The final figure is customarily rounded off to the nearest 1,000 L/min.

Appendix C

H & P Sanitary Sewer Design

LORA BAY CORPORATION
SERVICING DESIGN REPORT

for

PHASE 3 RESIDENTIAL DEVELOPMENT
WEST OF ROUNDABOUT AND ADJACENT TO
SUNSET BLVD.

Project No. 307005
Date: February, 2007

Prepared by:

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/jlk

SANITARY SEWER DESIGN SHEET

q = average daily per capita flow ~~450~~ L/cap. d)
I = unit of peak extraneous flow ~~(L/ha. s)~~ 277 L/c/d
M = peaking factor
Q (p) = peak population flow (L/s)
Q (i) = peak extraneous flow (L/s)
Q (d) = peak design flow

$M = 1 + \frac{14}{4 + \sqrt{P}}$ where P population in 1000's

$Q(p) = \frac{PqM}{86.4}$ (L/s)

Q(i) = IA (L/s) where A = area in hectares

Q(d) = Q(p) + Q(i) (L/s)

LOCATION			INDIVIDUAL		CUMULATIVE		Peaking factor M	Pop. flow Q(p) (L/s)	Peak extraneous flow Q(i) (L/s)	Peak design flow Q(d) (L/s)	PROPOSED SEWER						
STREET	FROM	TO	Pop.	Area A (hectares)	Pop.	Area A (hectares)					Length (m)	Pipe size (mm)	Type of pipe	Grade %	Capacity (L/s) n = 0.013	Full flow velocity (m/s)	Actual velocity at Q(d)
WEST RIDGE	FUTURE	PLUG	1358	—	1358	—	3.71	26.24	4.35	30.59	—	—	—	—	—	—	—
WEST RIDGE	PLUG	SAMH 101	3	—	1361	—	3.71	26.30	4.36	30.66	31.55	250	PVC	0.60	48.14	0.95	
WEST RIDGE	SAMH 101	SAMH 102	10	—	1449	—	3.69	27.85	4.65	32.50	86.40	250	PVC	0.60	48.14	0.95	
WEST RIDGE	SAMH 102	SAMH 103	20	—	1469	—	3.69	28.23	4.71	32.94	92.55	250	PVC	0.60	48.14	0.95	
WEST RIDGE	SAMH 103	SAMH 104	—	—	1469	—	3.69	28.23	4.71	32.94	18.30	250	PVC	0.60	48.14	0.95	
WEST RIDGE	SAMH 104	SAMH 105	5	—	1489	—	3.68	28.54	4.77	33.31	59.50	250	PVC	0.60	48.14	0.95	
WEST RIDGE	SAMH 105	SAMH 106	13	—	1502	—	3.68	28.79	4.82	33.61	59.40	250	PVC	1.50	76.12	1.50	
WEST RIDGE	SAMH 106	SAMH 107	5	—	1507	—	3.68	28.88	4.83	33.71	23.55	250	PVC	1.00	62.19	1.22	
WEST RIDGE	SAMH 113	SAMH 112	8	—	8	—	4.42	0.18	0.03	0.21	73.85	200	PVC	3.00	59.41	1.82	
WEST RIDGE	SAMH 112	SAMH 111	5	—	13	—	4.40	0.30	0.04	0.34	47.10	200	PVC	0.50	24.25	0.75	
WEST RIDGE	SAMH 111	SAMH 110	15	—	28	—	4.36	0.64	0.09	0.73	74.90	200	PVC	0.50	24.25	0.75	
WEST RIDGE	SAMH 110	SAMH 109	7	—	35	—	4.34	0.79	0.11	0.90	38.90	200	PVC	0.50	24.25	0.75	
WEST RIDGE	SAMH 109	SAMH 108	8	—	43	—	4.33	0.97	0.14	1.11	20.80	200	PVC	0.50	24.25	0.75	
WEST RIDGE	SAMH 108	SAMH 107	8	—	51	—	4.31	1.14	0.16	1.30	100.25	200	PVC	0.40	21.09	0.67	
LANDRY LANE	SAMH 207	SAMH 206	48	—	48	—	4.32	1.08	0.15	1.23	86.40	200	PVC	2.60	55.31	1.70	
LANDRY LANE	SAMH 206	SAMH 205	8	—	56	—	4.30	1.25	0.18	1.48	47.35	200	PVC	2.60	55.31	1.70	
LANDRY LANE	SAMH 205	SAMH 204	2	—	58	—	4.30	1.30	0.19	1.49	27.05	200	PVC	2.80	57.40	1.76	
LANDRY LANE	SAMH 204	SAMH 203	5		63	—	4.29	1.41	0.20	1.61	24.30	200	PVC	4.50	72.77	2.24	
LANDRY LANE	SAMH 203	SAMH 202	5		68	—	4.29	1.52	0.22	1.74	18.00	200	PVC	2.00	48.51	1.49	

ALTERNATIVE WITH ALL FUTURE FLOWS GO TO PHASE 3 END OF WEST RIDGE DRIVE

DESIGN JSW
CHECKED
DATE FEB 28, 2007

PROJECT LORA BAY - PHASE 3

SHEET No. 1 of 4

SANITARY SEWER DESIGN SHEET

q = average daily per capita flow (___ L/cap. d)
I = unit of peak extraneous flow (___ L/ha. s)
M = peaking factor
Q (p) = peak population flow (L/s)
Q (i) = peak extraneous flow (L/s)
Q (d) = peak design flow

$M = 1 + \frac{14}{4 + \sqrt{P}}$ where P population in 1000's

$Q(p) = \frac{PqM}{86.4}$ (L/s)

Q(i) = IA (L/s) where A = area in hectares

Q(d) = Q(p) + Q(i) (L/s)

LOCATION			INDIVIDUAL		CUMULATIVE		Peaking factor M	Pop. flow Q(p) (L/s)	Peak extraneous flow Q(i) (L/s)	Peak design flow Q(d) (L/s)	PROPOSED SEWER						
STREET	FROM	TO	Pop.	Area A (hectares)	Pop.	Area A (hectares)					Length (m)	Pipe size (mm)	Type of pipe	Grade %	Capacity (L/s) n=0.013	Full flow velocity (m/s)	Actual velocity at Q(d)
LANDRY LANE	SAMH 202	SAMH 201	3	–	71	–	4.28	1.58	0.23	1.81	43.05	200	PVC	2.00	48.51	1.49	
LANDRY LANE	SAMH 201	SAMH 101	7	–	78	–	4.27	1.73	0.25	1.98	86.40	200	PVC	2.60	55.31	1.70	
LANDRY LANE	SAMH 207	SAMH 208	35	–	35	–	4.34	0.79	0.11	0.90	61.15	200	PVC	0.50	24.25	0.75	
LANDRY LANE	SAMH 208	SAMH 209	10	–	45	–	4.32	1.01	0.14	1.15	28.30	200	PVC	2.50	54.24	1.67	
LANDRY LANE	SAMH 209	SAMH 210	23	–	68	–	4.29	1.52	0.22	1.74	100.00	200	PVC	4.30	71.13	2.18	
LANDRY LANE	SAMH 210	SAMH 211	20	–	88	–	4.26	1.95	0.28	2.23	100.00	200	PVC	4.00	68.60	2.11	
LANDRY LANE	SAMH 211	SAMH 212	2	–	90	–	4.26	2.00	0.29	2.29	12.85	200	PVC	4.00	68.60	2.11	
LANDRY LANE	SAMH 212	SAMH 213	15	–	105	–	4.24	2.32	0.34	2.66	56.90	200	PVC	3.50	64.17	1.97	
LANDRY LANE	SAMH 213	SAMH 107	3	–	108	–	4.23	2.38	0.35	2.73	37.35	200	PVC	3.00	59.41	1.82	
EASEMENT	SAMH 107	SAMH 214	–	–	1666	–	3.65	31.67	5.34	37.01	51.35	250	PVC	0.36	37.29	0.75	
EASEMENT	SAMH 214	SAMH 1 (EX. ST.)	–	–	1666	–	3.65	31.67	5.34	37.01	14.90	250	PVC	0.36	37.29	0.75	
McCALLUM CRES.	SAMH 114	SAMH 104	15	–	15	–	4.40	0.34	0.05	0.39	45.20	200	PVC	2.50	54.24	1.67	

	DESIGN	PROJECT
	CHECKED	
	DATE	

SHEET No. 2 of 4

Appendix D

Proposed Sanitary Sewage Generation Calculations

Project: Lora Bay Phase 4
Project No: 469-3061
File: Peak Flow - Sanitary
Date: 22-Jul-18
By: A. Spencer
Revision Date: 24-Aug-18
Revised By: A. Spencer

Lora Bay Phase 4 -Sanitary Design Flow

Developed Site Area		7.88	ha
Number of Residential Units	Single Family Detached	38	units
	Midrise Apartment Building 1	12	units
	Midrise Apartment Building 2	12	units
	Midrise Apartment Building 3	12	units
	Total	**74**	**units**
Person Per Residential Unit (per TOBM Engineering Standards,April 2009)		2.30	persons/unit
Residential Population		170	persons

Unit Sewage Flows

Average Residential Flow (per TOBM Engineering Standards, April 2009)		450	L/capita/day
Peak Infiltration Rate (per TOBM Engineering Standards, April 2009)		0.23	L/s/ha

Total Design Sewage Flows

Infiltration		1.82	L/sec
Residential Peak Factor	(Harmon Formula)	4.2	
Total Peak Daily Flow		**5.54**	**L/sec**

Appendix E

H & P SWM Modelling and Design

LORA BAY CORPORATION
SERVICING DESIGN REPORT

for

PHASE 3 RESIDENTIAL DEVELOPMENT
WEST OF ROUNDABOUT AND ADJACENT TO
SUNSET BLVD.

Project No. 307005
Date: February, 2007

Prepared by:

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The Lora Bay Corporation
Residential Condominium Development
Post Development Storm Sewer Design Sheet 1 in 5 yr Storm Event
Phase III

Start Location		End Location	Path Length	Path Slope	Area	C	AC	Cumulative AC	Tc	Cumulative Tc	i	Q	Pipe So	Pipe Diam.	Actual Pipe Capacity	Velocity	Pipe Length	Time of Flow
			m	%	ha				minutes	minutes		m³/s	%	mm	m³/s	m/s	m	minutes
CB132	A1	CBMH133	45	1.2	0.055	0.6	0.03	0.03	3.31	15.00	77.97	0.01	1.0	300	0.10	1.37	13.1	0.16
CBMH133	A2	CBMH131	45	1.2	0.055	0.6	0.03	0.07	3.31	15.16	77.38	0.01	3.0	300	0.17	2.37	46.05	0.32
CB130	A3	CBMH131	40	1	0.045	0.5	0.02	0.02	3.11	3.11	244.42	0.02	1.0	300	0.10	1.37	7.9	0.10
CBMH131	A4	CBMH129	40	1	0.052	0.6	0.03	0.12	3.06	15.48	76.20	0.03	3.0	300	0.17	2.37	46	0.32
CB128	A5	CBMH129	70	2	0.279	0.3	0.08	0.08	17.36	17.36	70.13	0.02	1.0	300	0.10	1.37	7.9	0.10
CBMH129	A6	CBMH127	43	3	0.053	0.6	0.03	0.24	2.64	17.45	69.85	0.05	3.0	300	0.17	2.37	60	0.42
CB126	A7	CBMH127	115	2	0.363	0.3	0.11	0.11	22.25	22.25	58.56	0.02	1.0	300	0.10	1.37	7.9	0.10
CBMH127	A8	CBMH125	55	3	0.664	0.6	0.40	0.74	2.62	22.35	58.38	0.12	0.6	450	0.22	1.39	57.05	0.68
CB124	A9	CBMH125	115	2	0.277	0.3	0.08	0.08	22.25	22.25	58.56	0.01	1.0	300	0.10	1.37	7.9	0.10
GC Drain	UA5	DI421	290	1	6.3	0.1	0.63	0.63	55.52	55.52	30.15	0.05	2.0	200	0.05	1.48	25	0.28
DI421	UA5a	CBMH125	25	1	0.020	0.15	0.00	0.63	15.49	55.80	30.04	0.05	1.0	300	0.10	1.37	9.8	0.12
CBMH125	A10	JUNC1	50	2	0.060	0.6	0.04	1.49	3.29	55.92	30.00	0.13	0.5	525	0.30	1.40	16.5	0.20
DI420	A12	JUNC1	40	2	0.089	0.3	0.03	0.03	13.12	13.12	85.92	0.01	1.0	300	0.10	1.37	8.55	0.10
JUNC1		JUNC2						1.52		56.11	29.92	0.13	0.5	525	0.30	1.40	16.2	0.19
DI419	A13	JUNC2	40	2	0.094	0.3	0.03	0.03	13.12	13.12	85.92	0.01	1.0	300	0.10	1.37	8.55	0.10
JUNC2		CBMH123						1.55		56.31	29.85	0.13	0.5	525	0.30	1.40	21.5	0.26
CB122	A11	CBMH123	100	2	0.391	0.3	0.12	0.12	20.75	20.75	61.61	0.02	1.0	300	0.10	1.37	7.9	0.10
DI418	A14	CBMH123	40	2	0.097	0.3	0.03	0.03	13.12	13.12	85.92	0.01	1.0	300	0.10	1.37	8.55	0.10
CBMH123	A15	STMH121	60	2	0.063	0.6	0.04	1.73	3.93	56.56	29.75	0.14	0.5	525	0.30	1.40	24.25	0.29
DI417	A17	STMH121	40	2	0.103	0.3	0.03	0.03	13.12	13.12	85.92	0.01	1.0	300	0.10	1.37	10.5	0.13
STMH121		STMH120						1.76		56.85	29.64	0.15	0.5	525	0.30	1.40	26.6	0.32
STMH120		DCBMH119						1.76		57.16	29.52	0.15	0.5	525	0.30	1.40	14.2	0.17
DI416	A18	DCBMH119	35	2	0.128	0.3	0.04	0.04	12.27	12.27	90.19	0.01	1.0	300	0.10	1.37	8.55	0.10
DCB118	A16	DCBMH119	110	2	0.525	0.3	0.16	0.16	21.76	21.76	59.52	0.03	1.0	300	0.10	1.37	7.9	0.10
DCBMH119	A19	CBMH117	60	0.5	0.065	0.6	0.04	2.00	5.16	57.33	29.46	0.16	0.3	525	0.24	1.09	45.85	0.70
CB116	A20	CBMH117	100	2	0.507	0.3	0.15	0.15	20.75	20.75	61.61	0.03	1.0	300	0.10	1.37	7.9	0.10
YCB415	A21	YCB414	65	4.6	0.266	0.25	0.07	0.07	13.50	13.50	84.16	0.02	2	300	0.14	1.93	23.25	0.20
YCB414	A22	YCB413	40	3.8	0.103	0.25	0.03	0.09	11.28	13.70	83.27	0.02	2	300	0.14	1.93	24.6	0.21
YCB413	A23	DIMH412	40	3.8	0.104	0.25	0.03	0.12	11.28	13.91	82.35	0.03	2	300	0.14	1.93	24.15	0.21
DIMH412	A24	CBMH117	40	3.8	0.11	0.25	0.03	0.15	11.28	14.12	81.46	0.03	2	300	0.14	1.93	9.8	0.08
CBMH117	A25	STMH115	40	0.5	0.083	0.6	0.05	2.35	3.36	58.03	29.20	0.19	0.3	525	0.24	1.09	55.15	0.84
LAT1.	A26	CBMH214a	120	2.5	0.743	0.3	0.22	0.22	21.11	21.11	60.83	0.04	1	300	0.10	1.37	5	0.06
CBMH214a	A27	CBMH214b	15	2	0.014	0.6	0.01	0.23	1.14	21.18	60.71	0.04	2.5	300	0.15	2.16	16.45	0.13
CBMH214b	A28	CBMH216	15	2	0.011	0.6	0.01	0.24	1.17	21.30	60.44	0.04	2.5	300	0.15	2.16	31.5	0.24
LAT2	A29	CBMH216	80	2.5	0.304	0.3	0.09	0.09	17.24	17.24	70.48	0.02	1	300	0.10	1.37	5	0.06
CB215	A31	CBMH216	60	2	0.04	0.6	0.02	0.02	4.11	4.11	199.66	0.01	1	300	0.10	1.37	7.9	0.10
CBMH216	A30	JUNC3	30	2	0.021	0.6	0.01	0.37	2.19	21.54	59.95	0.06	4.3	300	0.20	2.84	25	0.15
LAT3	A32	JUNC3	52	5	0.127	0.3	0.04	0.04	11.06	11.06	97.30	0.01	1	300	0.10	1.37	5	0.06
JUNC3		JUNC4						0.40		21.69	59.65	0.07	4.3	300	0.20	2.84	24.5	0.14
LAT4	A33	JUNC4	52	6.7	0.124	0.3	0.04	0.04	10.04	10.04	104.36	0.01	1	300	0.10	1.37	5	0.06
JUNC4		CBMH218						0.44		21.84	59.37	0.07	4.3	300	0.20	2.84	10.5	0.06
CB217	A34	CBMH218	55	4	0.04	0.6	0.02	0.02	3.28	3.28	235.20	0.02	1	300	0.10	1.37	7.9	0.10
CBMH218	A35	JUNC5	55	4	0.04	0.6	0.02	0.49	3.28	21.90	59.25	0.08	4.3	300	0.20	2.84	13.5	0.08
LAT5	A36	JUNC5	45	9	0.109	0.3	0.03	0.03	8.47	8.47	118.04	0.01	1	300	0.10	1.37	5	0.06
JUNC5		JUNC6						0.52		21.98	59.09	0.09	4.3	300	0.20	2.84	24.5	0.14
LAT6	A37	JUNC6	45	7.8	0.11	0.3	0.03	0.03	8.88	8.88	114.07	0.01	1	300	0.10	1.37	5	0.06
JUNC6		CBMH220						0.55		22.12	58.81	0.09	4.3	300	0.20	2.84	22	0.13
CB219	A39	CBMH220	58	4.3	0.039	0.6	0.02	0.02	3.42	3.42	228.28	0.01	1	300	0.10	1.37	7.9	0.10
CBMH220	A40	JUNC7	58	4.3	0.038	0.6	0.02	0.60	3.42	22.25	58.56	0.10	4.3	300	0.20	2.84	2.5	0.01
LAT7	A38	JUNC7	50	6	0.112	0.3	0.03	0.03	10.21	10.21	103.10	0.01	1	300	0.10	1.37	5	0.06
JUNC7		JUNC8						0.63		22.26	58.53	0.10	4.3	300	0.20	2.84	24	0.14
LAT8	A41	JUNC8	46	6.5	0.11	0.3	0.03	0.03	2.25	2.25	309.24	0.03	1	300	0.10	1.37	5	0.06
JUNC8		JUNC9						0.67		22.41	58.27	0.11	4.3	300	0.20	2.84	21	0.12
LAT9	A42	JUNC9	40	8.8	0.085	0.3	0.03	0.03	8.05	8.05	122.54	0.01	1	300	0.10	1.37	5	0.06
JUNC9		CBMH222						0.69		22.53	58.04	0.11	4.3	300	0.20	2.84	12	0.07
CB221	A43	CBMH222	55	4	0.04	0.6	0.02	0.02	3.28	3.28	235.20	0.02	1	300	0.10	1.37	7.9	0.10
CBMH222	A44	JUNC10	55	4	0.04	0.6	0.02	0.74	3.28	22.60	57.90	0.12	5	300	0.22	3.06	4.5	0.02
LAT10	A45	JUNC10	45	6.7	0.091	0.3	0.03	0.03	9.34	9.34	109.99	0.01	1	300	0.10	1.37	9.5	0.12
JUNC10		JUNC11						0.77		22.62	57.86	0.12	5	300	0.22	3.06	19	0.10
LAT11	A46	JUNC11	45	6.7	0.112	0.3	0.03	0.03	9.34	9.34	109.99	0.01	1	300	0.10	1.37	16	0.19
JUNC11		CBMH223						0.80		22.73	57.67	0.13	5	300	0.22	3.06	2	0.01
CB224	A47	CBMH223	30	3	0.028	0.6	0.02	0.02	1.96	1.96	341.33	0.02	1	300	0.10	1.37	7.9	0.10
CBMH223	A48	CBMH225	20	3	0.024	0.6	0.01	0.83	1.33	22.74	57.65	0.13	3.7	300	0.19	2.63	45.45	0.29
YCB510	A51	YCB511	40	8.8	0.107	0.25	0.03	0.03	8.55	8.55	117.26	0.01	1	300	0.10	1.37	18.1	0.22
YCB511	A52	YCB512	45	8.8	0.105	0.25	0.03	0.05	9.07	8.77	115.11	0.02	1	300	0.10	1.37	13.7	0.17
YCB512	A53	YCB513	45	8.8	0.114	0.25	0.03	0.08	9.07	8.94	113.55	0.03	1	300	0.10	1.37	18	0.22
YCB513	A54	YCB514	45	7.8	0.103	0.25	0.03	0.11	9.44	9.16	111.57	0.03	4	300	0.19	2.74	24.4	0.15
YCB514	A55	YCB515	42	7.1	0.105	0.25	0.03	0.13	9.40	9.31	110.27	0.04	5	300	0.22	3.06	24.4	0.13
YCB515	A56	YCB516	45	5.6	0.104	0.25	0.03	0.16	10.53	9.44	109.14	0.05	5	300	0.22	3.06	24.4	0.13
YCB516	A57	YCB517	45	6.7	0.105	0.25	0.03	0.19	9.92	9.57	108.04	0.06	5	300	0.22	3.06	24.4	0.13
YCB517	A58	YCB518	45	5.6	0.105	0.25	0.03	0.21	10.53	9.70	106.96	0.06	3	300	0.17	2.37	24.5	0.17
YCB518	A59	YCB519	40	6.3	0.104	0.25	0.03	0.24	9.55	9.88	105.60	0.07	5	300	0.22	3.06	24.5	0.13
YCB519	A60	DI520	40	6.3	0.096	0.25	0.02	0.26	9.55	10.01	104.58	0.08	5	300	0.22	3.06	18.7	0.10
DI520	A61	CBMH225	40	5	0.114	0.25	0.03	0.29	10.30	10.11	103.81	0.08	5	300	0.22	3.06	6.5	0.04
CB226	A49	CBMH225	40	2.7	0.028	0.6	0.02	0.02	2.67	2.67	272.78	0.01	1	300	0.10	1.37	7.9	0.10
CBMH225	A50	DCBMH227	40	2.7	0.027	0.6	0.02	1.16	2.68	23.03	57.12	0.18	3	450	0.49	3.10	32.9	0.18
DCB228	A62	DCBMH227	30	2	0.027	0.6	0.02	0.02	2.14	2.14	320.96	0.01	1	300	0.10	1.37	8.3	0.10
DCBMH227	A63	STMH115	50	4	0.173	0.3	0.05	1.22	11.67	23.20	56.81	0.19	3	450	0.49	3.10	10	0.05
LAT12	A64	CBMH214	90	3	0.437	0.3	0.13	0.13	17.22	17.22	70.54	0.03	1	300	0.10	1.37	5	0.06
CB213	A65	CBMH214	40	2	0.03	0.6	0.02	0.02	2.82	2.82	262.46	0.01	1	300	0.10	1.37	7.9	0.10
CBMH214	A66	JUNC12	40	2	0.033	0.6	0.02	0.17	2.79	17.28	70.36	0.03	2.6	300	0.16	2.21	26	0.20
LAT13	A67	JUNC12	50	5	0.124	0.3	0.04	0.04	10.84	10.84	98.69	0.01	1	300	0.10	1.37	5	0.06
JUNC12		JUNC13						0.21		17.48	69.79	0.04	2.6	300	0.16	2.21	29	0.22
LAT14	A68	JUNC13	55	3.6	0.163	0.3	0.05	0.05	12.67	12.67	88.12	0.01	1	300	0.10	1.37	5	0.06
JUNC13		CBMH212						0.26		17.69	69.16	0.05	2.6	300	0.16	2.21	4.5	0.03
CB211	A69	CBMH212	55	2.6	0.037	0.6	0.02	0.02	3.60	3.60	219.69	0.01	1	300	0.10	1.37	7.9	0.10
CBMH212	A70	STMH210	55	2.6	0.036	0.6	0.02	0.30	3.61	17.73	69.06	0.06	2.8	300	0.16	2.29	15.9	0.12
STMH210		JUNC14						0.32		17.84	68.74	0.06	2.6	300	0.16	2.21	7	0.05
LAT15	A71	JUNC14	60	5.8	0.153	0.3	0.05	0.05	11.31	11.31	95.71	0.01	1	300	0.10	1.37	5	0.06
JUNC14		JUNC15						0.37		17.90	68.59	0.07	2.6	300	0.16	2.21	28	0.21
LAT16	A72	JUNC15	45	7.8	0.132	0.3	0.04	0.04	8.88	8.88	114.07	0.01	1	300	0.10	1.37	6	0.07
JUNC15		CBMH209						0.41		18.11	68.01	0.08	2.6	300	0.16	2.21	12	0.09
CB208	A73	CBMH209	60	4	0.044	0.6	0.03	0.03	3.54	3.54	222.34	0.02	1	300	0.10	1.37	7.9	0.10
CBMH209	A74	JUNC16	60	4	0.041	0.6	0.02	0.46	3.57	18.20	67.76	0.09	2.8	300	0.16	2.29	12	0.09
LAT17	A75	JUNC16	45	7.8	0.117	0.3	0.04	0.04	8.88	8.88	114.07	0.01	1	300	0.10	1.37	6	0.07
JUNC16		STMH207						0.49		18.29	67.53	0.09	2.8	300	0.16	2.29	12.5	0.09
STMH207		JUNC17						0.49		18.38	67.28	0.09	4.6	300	0.21	2.93	10.5	0.06
LAT18	A76	JUNC17	45	8.9	0.098	0.3	0.03	0.03	8.50	8.50	117.73	0.01	1	300	0.10	1.37	6.5	0.08
JUNC17		CBMH206						0.52		18.44	67.13	0.10	4.6	300	0.21	2.93	24.5	0.14
LAT19	A77	CBMH206	40	10	0.103	0.3	0.03	0.03	7.72	7.72	126.35	0.01	1	300	0.10	1.37	5	0.06
CB205	A78	CBMH206	55	5.6	0.038	0.6	0.02	0.02	3.08	3.08	246.06	0.02	1	300	0.10	1.37	7.9	0.10
CBMH206	A79	JUNC18	55	5.6	0.04	0.6	0.02	0.60	3.06	18.58	66.76	0.11	5	300	0.22	3.06	20.5	0.11
LAT20	A80	JUNC18	45	6.7	0.137	0.3	0.04	0.04	9.34	9.34	109.99	0.01	1	300	0.10	1.37	5.5	0.07
JUNC18		CBMH204						0.64		18.69	66.47	0.12	5	300	0.22	3.06	3.5	0.02
CB203	A81	CBMH204	20	2	0.013	0.6	0.01	0.01	1.53	1.53	408.56	0.01	1	300	0.10	1.37	7.9	0.10
CBMH204	A82	JUNC19	20	2	0.015	0.6	0.01	0.66	1.51	18.71	66.42	0.12	1	450	0.29	1.79	18	0.17
LAT21	A83	JUNC19	45	4.4	0.111	0.3	0.03	0.03	10.73	10.73	99.45	0.01	1	300	0.10	1.37	6	0.07
JUNC19		DCBMH202						0.69		18.87	65.99	0.13	1	450	0.29	1.79	21	0.20
LAT22	A84	DCBMH202	45	2.2	0.109	0.3	0.03	0.03	13.49	13.49	84.23	0.01	1	300	0.10	1.37	5	0.06
DCB201	A85	DCBMH202	35	2	0.05	0.3	0.02	0.02	12.27	12.27	90.19	0.00	1	300	0.10	1.37	7.9	0.10
DCBMH202	A86	STMH101	25	2	0.052	0.6	0.03	0.77	1.67	19.07	65.50	0.14	1	450	0.29	1.79	9.05	0.08

See Next Sheet for Continuation

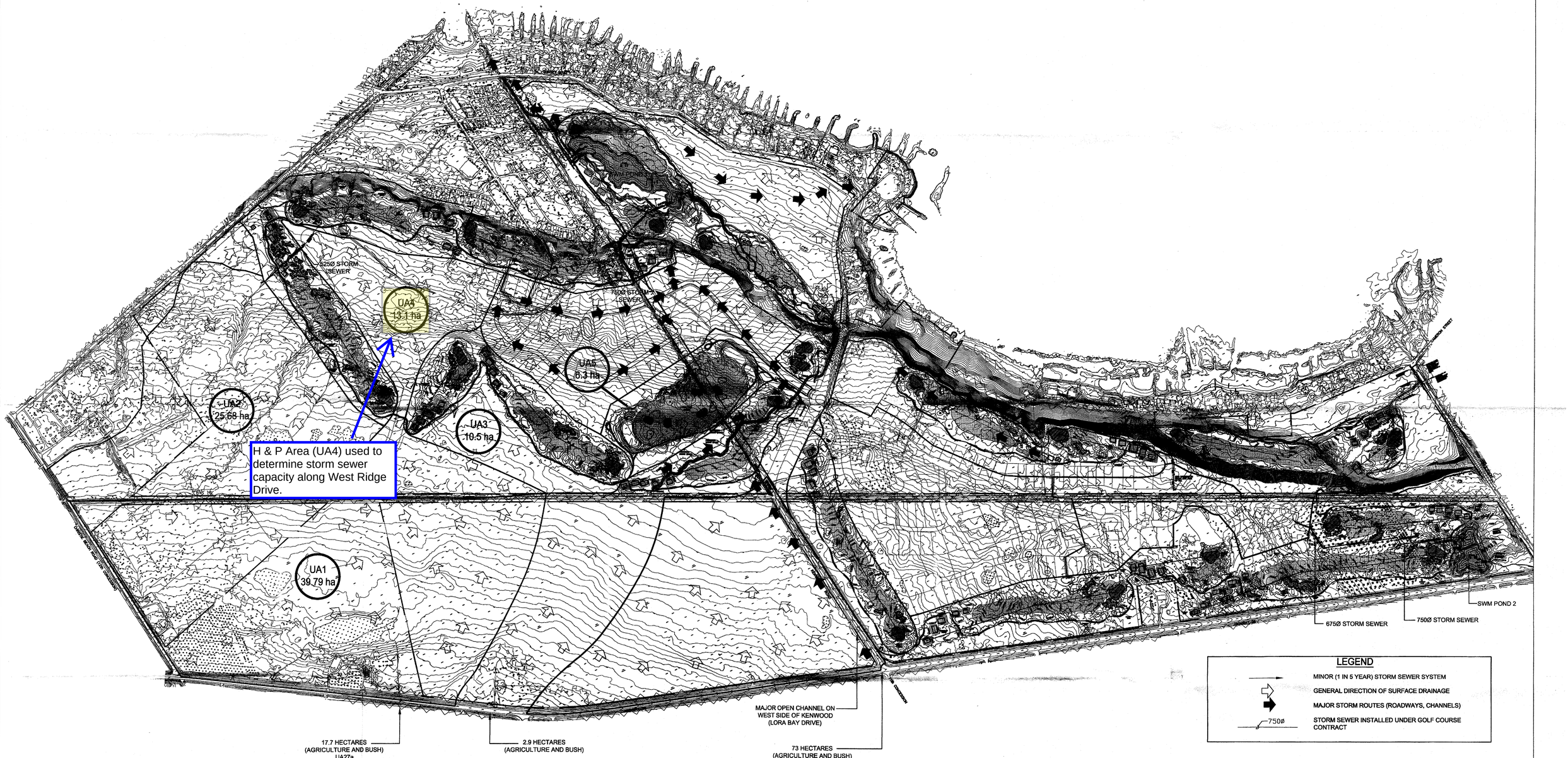
The Lora Bay Corporation
Residential Condominium Development
Post Development Storm Sewer Design Sheet 1 in 5 yr Storm Event
Phase III (Continued)

Start Location		End Location	Path Length m	Path Slope %	Area ha	C	AC	Cumulative AC	Tc minutes	Cumulative Tc minutes	i	Q m^3/s	Pipe So %	Pipe Diam. mm	Actual Pipe Capacity m^3/s	Velocity m/s	Pipe Length m	Time of Flow minutes
Hwy 26	A27a	Georgian Trail	420	13.9	17.7	0.22	3.89	3.89	24.67	24.67	54.34	0.59	1	900	1.81	2.85	6	0.04
Georgian Trail	UA1	DIMH100	800	2.5	39.79	0.2	7.96	11.85	61.33	86.03	21.94	0.73	1	300	0.10	1.37	6	0.07
EXDIMH12	UA2	Ex STMH13	600	0.8	25.68	0.3	7.70	7.70	68.76	68.76	25.81	0.56	1.34	525	0.50	2.30	120	0.87
EX STMH13	UA4	DIMH100	500	2	13.1	0.3	3.93	11.63	46.39	116.03	17.66	0.58						
DIMH100	UA3	STMH101	450	2.5	10.5	0.2	2.10	25.59	46.00	116.03	17.66	1.26	1.5	750	1.36	3.09	27	0.15
STMH101		CBMH103						26.36		116.17	17.64	1.30	1.5	750	1.36	3.09	51.2	0.28
CB102	A87	CBMH103	90	2	0.189	0.3	0.06	0.06	19.68	19.68	64.01	0.01	1	300	0.10	1.37	7.9	0.10
YCB509	A88	YCB508	45	6.7	0.099	0.3	0.03	0.03	9.34	9.34	109.99	0.01	3.5	300	0.18	2.56	24.4	0.16
YCB508	A89	YCB507	40	10	0.106	0.3	0.03	0.06	7.72	9.50	108.65	0.02	1.8	300	0.13	1.84	24.9	0.23
YCB507	A90	YCB506	35	8.6	0.103	0.3	0.03	0.09	7.59	9.72	106.81	0.03	1	300	0.10	1.37	26	0.32
YCB506	A91	YCB505	35	7.1	0.107	0.3	0.03	0.12	8.08	10.04	104.35	0.04	1	300	0.10	1.37	4.4	0.05
YCB505	A92	YCB504	50	3	0.109	0.3	0.03	0.16	12.83	12.83	87.32	0.04	1	300	0.10	1.37	23.3	0.28
YCB504		YCB503						0.16		13.12	85.95	0.04	1	300	0.10	1.37	22.7	0.28
YCB503	A93	YCB502	40	2.5	0.107	0.3	0.03	0.19	12.19	13.39	84.65	0.04	3	300	0.17	2.37	18.2	0.13
YCB502	A94	DI501	40	5	0.128	0.3	0.04	0.23	9.70	13.52	84.07	0.05	6	300	0.24	3.35	22.1	0.11
DI501	A95	CBMH103	40	3.8	0.082	0.3	0.02	0.25	10.62	13.63	83.58	0.06	5	300	0.22	3.06	8.9	0.05
CBMH103	A96	JUNC20	35	0.5	0.043	0.6	0.03	26.66	3.14	116.45	17.61	1.31	1.5	750	1.36	3.09	28	0.15
DI402	A98	JUNC20	35	8.6	0.107	0.3	0.03	0.03	7.59	7.59	127.92	0.01	1	300	0.10	1.37	8.4	0.10
JUNC20		CBMH105						26.70		116.60	17.59	1.32	1.5	750	1.36	3.09	22	0.12
CB104	A97	CBMH105	75	2	0.131	0.3	0.04	0.04	17.97	17.97	68.39	0.01	1	300	0.10	1.37	7.9	0.10
DI403	A99	CBMH105	40	7.5	0.094	0.3	0.03	0.03	8.48	8.48	117.94	0.01	1	300	0.10	1.37	8.8	0.11
CBMH105	A100	JUNC21	50	0.5	0.05	0.6	0.03	26.79	4.42	116.72	17.58	1.32	1.5	750	1.36	3.09	19	0.10
DI404	A102	JUNC21	45	5.6	0.094	0.3	0.03	0.03	9.91	9.91	105.36	0.01	1	300	0.10	1.37	8.55	0.10
JUNC21		CBMH107						26.82		116.82	17.57	1.32	1.5	750	1.36	3.09	25	0.14
CB106	A101	CBMH107	65	2	0.134	0.3	0.04	0.04	16.73	16.73	72.04	0.01	1	300	0.10	1.37	7.9	0.10
DI405	A103	CBMH107	50	5	0.131	0.3	0.04	0.04	10.84	10.84	98.69	0.01	1	300	0.10	1.37	8.6	0.10
CBMH107	A104	CBMH108	40	1	0.044	0.6	0.03	26.93	3.12	116.96	17.55	1.32	1.5	750	1.36	3.09	35.7	0.19
DI406	A105	CBMH108	50	4	0.156	0.3	0.05	0.05	11.67	11.67	93.55	0.01	1	300	0.10	1.37	8.45	0.10
CBMH108	A106	CBMH301	30	4	0.125	0.6	0.08	27.05	1.60	117.15	17.53	1.33	1.5	750	1.36	3.09	24.5	0.13
DI306	A107	STMH304	45	4.4	0.156	0.3	0.05	0.05	10.73	10.73	99.45	0.01	1	300	0.10	1.37	16.7	0.20
DI305	A109	STMH304	40	6.3	0.146	0.3	0.04	0.04	8.99	8.99	113.11	0.01	1	300	0.10	1.37	12.6	0.15
STMH304		JUNC22						0.09		10.93	98.10	0.02	5	300	0.22	3.06	7	0.04
DI303	A108	JUNC22	45	7.8	0.179	0.3	0.05	0.05	8.88	8.88	114.07	0.02	1	300	0.10	1.37	17.2	0.21
JUNC22		JUNC23						0.14		10.97	97.85	0.04	5	300	0.22	3.06	1.5	0.01
DI302	A110	JUNC23	60	4.2	0.159	0.3	0.05	0.05	12.58	12.58	88.59	0.01	1	300	0.10	1.37	13.5	0.16
JUNC23		CBMH301						0.19		12.75	87.76	0.05	5	300	0.22	3.06	30	0.16
CBMH301	A113	JUNC24	40	2	0.095	0.6	0.06	27.30	2.51	117.28	17.52	1.34	1.5	750	1.36	3.09	13.5	0.07
DI407	A111	JUNC24	30	5	0.051	0.3	0.02	0.02	8.40	8.40	118.80	0.01	1	300	0.10	1.37	8.75	0.11
JUNC24		CBMH110						27.31		117.36	17.51	1.34	1.5	750	1.36	3.09	6	0.03
CB109	A112	CBMH110	100	2	0.241	0.3	0.07	0.07	20.75	20.75	61.61	0.01	1	300	0.10	1.37	7.9	0.10
CBMH110		CBMH112						27.39		117.39	17.51	1.34	1.5	750	1.36	3.09	37	0.20
CB111	A115	CBMH112	45	2	0.076	0.3	0.02	0.02	13.92	13.92	82.33	0.01	1	300	0.10	1.37	7.9	0.10
DI408	A114	CBMH112	30	2.5	0.062	0.3	0.02	0.02	10.56	10.56	100.62	0.01	1	300	0.10	1.37	8.75	0.11
CBMH112	A116	JUNC25	35	1.5	0.037	0.6	0.02	27.45	2.56	117.59	17.49	1.34	1.5	750	1.36	3.09	19	0.10
DI409	A117	JUNC25	65	5.4	0.152	0.3	0.05	0.05	12.05	12.05	91.40	0.01	1	300	0.10	1.37	8.7	0.11
JUNC25		JUNC26						27.50		117.69	17.48	1.35	1.5	750	1.36	3.09	21	0.11
DI410	A118	JUNC26	60	5	0.123	0.3	0.04	0.04	11.88	11.88	92.37	0.01	1	300	0.10	1.37	8.7	0.11
JUNC26		CBMH114						27.53		117.80	17.46	1.35	1.5	750	1.36	3.09	13.5	0.07
CB113	A119	CBMH114	75	2	0.161	0.3	0.05	0.05	17.97	17.97	68.39	0.01	1	300	0.10	1.37	7.9	0.10
CBMH114	A120	JUNC27	50	1.5	0.055	0.6	0.03	27.61	3.51	117.88	17.46	1.35	1.5	750	1.36	3.09	6.5	0.04
DI411	A121	JUNC27	45	4.4	0.106	0.3	0.03	0.03	10.73	10.73	99.45	0.01	1	300	0.10	1.37	9.2	0.11
JUNC27		**STMH115**						**27.65**		117.91	17.45	1.35	1.5	750	1.36	3.09	20	0.11
STMH115		**STMH229**						**31.22**		118.02	17.44	1.52	1.8	750	1.49	3.38	55.1	0.27
STMH229		**EX DIMH6**						**31.22**		118.29	17.41	1.52	2	750	1.57	3.56	5.5	0.03

Equations

Tc =	$(0.057*L)/((Sw^{0.2})*(A^{0.1}))$	when C > 0.4
Tc =	$(3.26*(1.1-C)*L^{0.5})/(Sw^{0.33})$	when C <= 0.4
i =	$a(Tc/60)^{b}$	where Tc is equal to cumulative Tc
Q =	$iAC*(0.0028)$	
Pipe Capacity = (Q)	$(1/n) \times A_p \times R_h^{2/3} \times S_p^{0.5}$	

where:				
Tc	Time of Concentration in hours	a	Coefficient (From Table AES Data)	
Q	Runoff Volume in m^3/s	b	Exponent (From Table AES Data)	
L	Overland Path Length in m	n	mannings roughness coefficient = 0.013	
Sw	Overland Path Slope in %	A_x	Cross sectional area of Pipe	
A	Subwatershed Area in ha	R_h	Wetted Perimeter (Full Flow)	
C	Runoff Coefficient	S_p	Pipe Slope (m/m)	



HENDERSON PADDON
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LORA BAY PHASE 3
STORMWATER MANAGEMENT
SUB-WATERSHED AREAS

Scale 1: 4000

Date FEBRUARY, 2007

Drawing No. 307005-STM1

STORMWATER MANAGEMENT

FOR

RAVEN GOLF™ AT LORA BAY

Project No.: 303025
Date: June, 2004

Prepared by:

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JSW/PCC/bml/jlk

- A Cipolletti weir with a "base width" of 1.0m is to be installed in the mid-wall set at elevation 185.35m The top of the weir is set at elevation 186.50m (top width of opening at 186.50m is 2.222m)
- A 300mm dia. maintenance pipe is to be installed from bottom of pond (181.90m) to outlet structure to enable pumping out of the pond
- 3000mm dia. outlet structure is to have a safety ladder and landing installed at elevation 186.50(±) as the overall structure depth is approx. 6.4m
- Outlet pipe from outlet structure is a 1350mm dia. at 1.40% with an invert elevation of 184.25 in the outlet structure
- All piping sized to accommodate the 1 in 100 year storm runoff

The following is the stage-discharge-storage information for the designed Pond No. 1 works:

Elevation (m)	**Depth** (m) (above normal water level)	**Discharge** (cms)	**Storage** (cubic metres)
184.90	0.00	0.00	0.00
185.00	0.100	0.0097	1,406
185.10	0.200	0.0352	3,212
185.20	0.300	0.0764	5,018
185.30	0.400	0.0986	6,823
185.40	0.500	0.1547	8,629
185.50	0.600	0.3283	10,435
185.60	0.700	0.5673	12,430
185.70	0.800	0.8560	14,426
185.80	0.900	1.1868	16,421
185.90	1.000	1.5548	18,417
186.00	1.100	1.9562	20,412

Elevation (m)	**Depth** (m) (above normal water level)	**Discharge** (cms)	**Storage** (cubic metres)
186.10	1.200	2.3891	22,712
186.20	1.300	2.8505	25,013
186.30	1.400	3.3385	27,313
186.40	1.500	3.8521	29,614
186.50	1.600	4.3895	31,914
186.75	1.850	5.8341	38,362

Post-development flows for the 2, 5, 10, 25, 50 and 100 year, 3 hour SCS Type II, storm were generated by Pond Pack and routed through Pond No. 1 as a reservoir. The resultant peak flows into and out of the pond are shown on Drawing No. 303025-03. A summary of the computer model results for all storm frequencies is contained in Appendix 'D' of this report.

As can be noted, the post-development peak flows leaving Pond No. 1 are less than pre-development conditions.

It is concluded that Pond No. 1, as designed, will attenuate post-development peak flows to less than pre-development peak flows for all storms up to and including the 1 in 100 year event.

8.3 POND NO. 2

Section 7.3 of this report provided a summary of some of the physical characteristics of this facility with respect to volumes, etc. In addition to that information, the following are outlet control features of Pond No. 2 as they relate to the attenuation of peak flows required to reduce peak flows to pre-development conditions:

- Outlet pipe diameter for Pond No. 2 to outlet structure is 300mm (12")
- Outlet structure is 1200mm dia. pre-cast manhole c/w cast-in-place mid-wall
- A 100mm dia. orifice is located in mid-wall with its invert at the normal water level of 198.00m

Appendix 'D'

"Pond Pack" Computer Model

Post-development Condition

Routing through SWM Pond No. 1

Summary Sheets

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

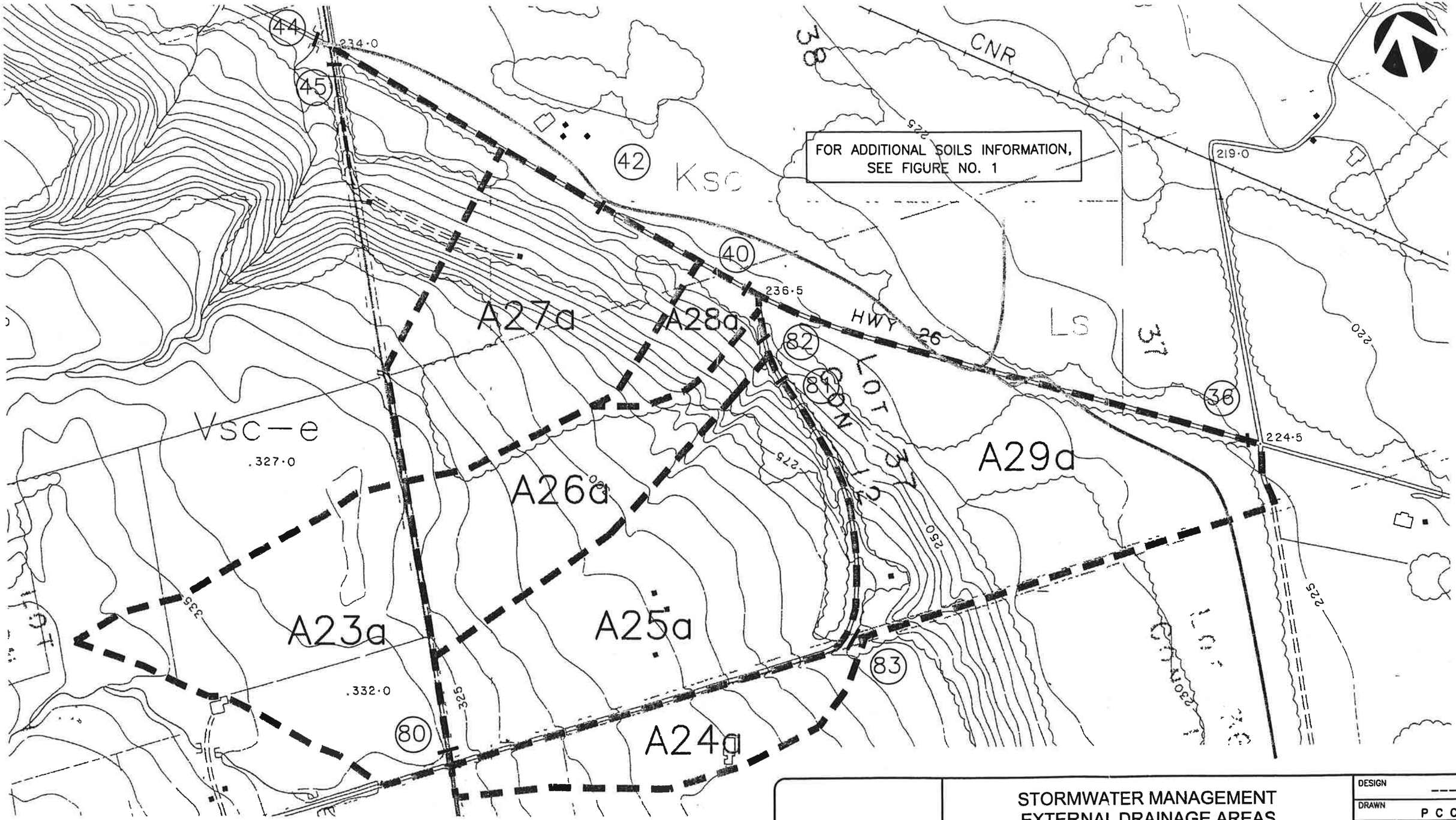
(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Node ID	Type	Return Event	HYG Vol cu.m	Trun	Qpeak hrs	Qpeak cms	Max WSEL m	Max Pond Storage cu.m
A28A	AREA	2	59.1		1.4400	.0175		
A28A	AREA	5	167.5		1.3300	.0682		
A28A	AREA	10	259.6		1.2900	.1141		
A28A	AREA	25	510.9		1.2600	.2303		
A28A	AREA	50	524.1		1.2500	.2574		
A28A	AREA	100	685.1		1.2400	.3592		
A3	AREA	2	480.8		1.9800	.0980		
A3	AREA	5	908.4		1.8600	.1936		
A3	AREA	10	1223.3		1.8600	.2564		
A3	AREA	25	1995.1		1.8600	.3936		
A3	AREA	50	2033.6		1.8600	.4124		
A3	AREA	100	2490.2		1.8600	.4953		
A4	AREA	2	1129.5		3.2700	.1253		
A4	AREA	5	2752.6		3.0000	.3085		
A4	AREA	10	4067.5		3.0000	.4470		
A4	AREA	25	7535.2		3.0000	.8071		
A4	AREA	50	7714.6		3.0000	.8326		
A4	AREA	100	9882.7		3.0000	1.0564		
A5	AREA	2	226.2		2.4100	.0374		
A5	AREA	5	876.5		2.0500	.1560		
A5	AREA	10	1479.4		2.0400	.2585		
A5	AREA	25	3219.2		1.9300	.5384		
A5	AREA	50	3313.1		1.9300	.5756		
A5	AREA	100	4470.3		1.9300	.7715		
A6	AREA	2	7.4		3.2300	.0015		
A6	AREA	5	113.3		2.6100	.0169		
A6	AREA	10	240.3		2.5400	.0342		
A6	AREA	25	656.8		2.4500	.0913		
A6	AREA	50	680.6		2.4000	.0962		
A6	AREA	100	979.2		2.2900	.1376		

MASTER NETWORK SUMMARY
SCS Unit Hydrograph Method

(*Node=Outfall; +Node=Diversion;)
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Node ID		Type	Return Event	HYG Vol cu.m	Trun	Qpeak hrs	Qpeak cms	Max WSEL m	Max Pond Storage cu.m
JUNC 90		JCT	2	3890.9		2.3900	.4665		
JUNC 90		JCT	5	9540.9		2.1200	1.1758		
JUNC 90		JCT	10	14159.2		2.1200	1.7005		
JUNC 90		JCT	25	26422.3		2.1200	3.0475		
JUNC 90		JCT	50	27058.9		2.1200	3.1767		
JUNC 90		JCT	100	34765.9		2.1200	4.0295		
SWMP 1	IN	POND	2	8089.8		2.0300	1.0827		
SWMP 1	IN	POND	5	20286.6		1.8600	2.8559		
SWMP 1	IN	POND	10	30362.4		1.8500	4.1775		
SWMP 1	IN	POND	25	57323.1		1.8500	7.4970		
SWMP 1	IN	POND	50	58728.1		1.7600	7.8724		
SWMP 1	IN	POND	100	75766.7		1.7500	10.0022		
SWMP 1	OUT	POND	2	4784.3		4.6000	.1003	185.309	6991.0
SWMP 1	OUT	POND	5	15719.3		3.6400	.8666	185.703	14491.7
SWMP 1	OUT	POND	10	25571.4		3.4400	1.7086	185.939	19194.4
SWMP 1	OUT	POND	25	52234.0		3.2900	4.0226	186.432	30353.6
SWMP 1	OUT	POND	50	53637.6		3.2500	4.1416	186.455	30867.2
SWMP 1	OUT	POND	100	70545.2		3.2200	5.5968	186.709	37302.0

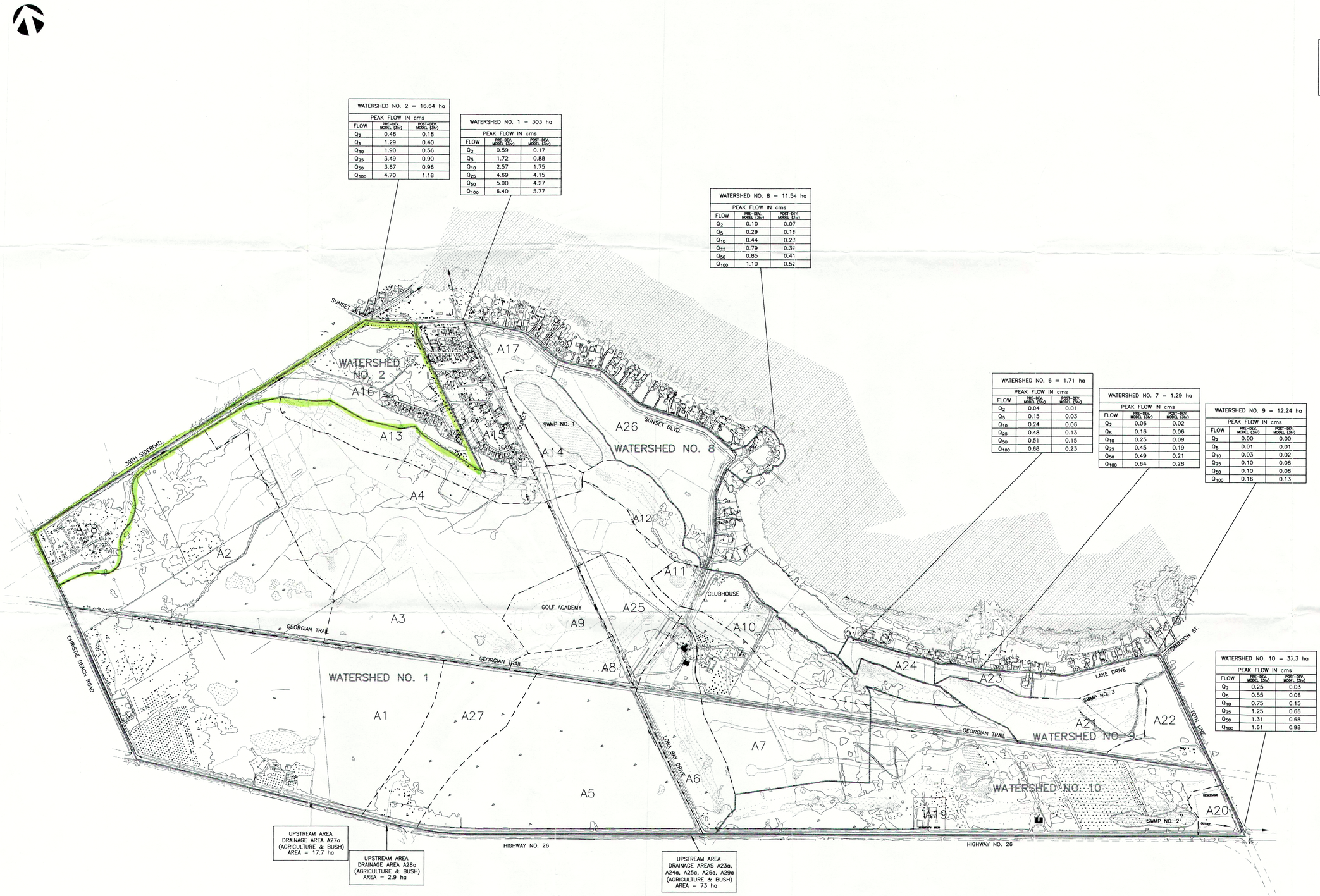


STORMWATER MANAGEMENT
EXTERNAL DRAINAGE AREAS
SOUTH OF LORA BAY DEVELOPMENT

HENDERSON, PADDON
& ASSOCIATES LIMITED
CONSULTING ENGINEERS
OWEN SOUND ◆ THE BLUE MOUNTAINS
PHONE (519) 599-3793 SINCE 1972

DESIGN	---
DRAWN	P C C
APPROVED	J S W
DATE	AUG. 2003
SCALE	1:6,410
FILE No.	302025
FIG. No.	2

G:\2002\100\302025\DRAW\drwfr plans\FIGURE2.dwg Aug 15, 2003 - 8:05am



11/06/04	REVISED
DATE	DESCRIPTION

REVISION / ISSUE

Seal not valid unless signed and dated

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Title:

STORMWATER MANAGEMENT POST-DEVELOPMENT DRAINAGE AREAS AND FLOWS

Client: INTRAWEST GOLF

Design:	J S W	Scale:	1:5,000
Drawn:	J L K	Approved:	
Checked:	J S W		
Date:	APR. 2004		Design Engineer

DRAWING No. 303025-03

Appendix F

SWM Modelling and Capacity Assessments

Project: Lora Bay Phase 4
Project No.: 469-3061
File: Rational Method - Peak Flow
Date: 25-Jul-18
By: A. Spencer
Revision Date: 24-Aug-18
Revised By: A. Spencer

Lora Bay Phase 4 - RATIONAL METHOD RUNOFF COEFFICIENT COMPARISON (5-YEAR STORM EVENT)

Rational Method	Q=0.0028*C*i*A	(cms)
Intensity	i=CoefA x T_c^CoefB	(mm/hr)

Storm Event	Owen Sound IDF	
	Coef. A	Coef. B
5	29.1	-0.724

Comparison of Runoff Coefficients and Peak Flow Rates (5-year Storm Event)

Return Period	H & P, 2007				Crozier, 2018			
	Area (Ha)	Runoff Coefficient (C)	RC x A	Peak Flow (m^3/s)	Area (Ha)	Runoff Coefficient (C)	RC x A	Peak Flow (m^3/s)
5	13.1	0.3	3.93	**0.68**	13.1	0.45	5.895	**1.02**

Notes:
1) Runoff coefficients per TOBM Standards (2009)
2) Rainfall Intensity Frequency Curves per TOBM Standards (pg 34, 2009)
3) Time of Concentration per the 2007 H & P Lora Bay Phase III Servicing Report Storm Sewer Design Sheet

Project: Lora Bay Phase 4
Project No.: 469-3061
File: Storm Sewer Comparison
Date Created: 25-Jul-18
Created By: A. Spencer
Revision Date: 24-Aug-18
Revised By: A. Spencer

Lora Bay Phase 4
Comparison Summary of Stormwater Flows (H & P 2007 – C.F. Crozier 2018)

West Ridge Drive - Storm Sewer Capacity Assessement

Maintenance ID	Cumulative AC OLD (H & P)	Cumulative AC NEW (CFCA)	Intensity (mm/hr)	Q_{old} (m^3/s)	Q_{new} (m^3/s)	Pipe Capacity (m^3/s)
DIMH110	25.59	**27.555**	17.66	1.26	**1.35**	1.36
STMH101	26.36	**28.325**	17.64	1.29	**1.39**	1.36
CBMH103	26.66	**28.625**	17.61	1.31	**1.40**	1.36
JUNC20	26.7	**28.665**	17.59	1.31	**1.40**	1.36
CBMH105	26.79	**28.755**	17.58	1.31	**1.41**	1.36
JUNC21	26.82	**28.785**	17.57	1.31	**1.41**	1.36
CBMH107	26.93	**28.895**	17.55	1.31	**1.41**	1.36
CBMH108	27.05	**29.015**	17.53	1.32	**1.41**	1.36
CBMH301	27.3	**29.265**	17.52	1.33	**1.43**	1.36
JUNC24	27.31	**29.275**	17.51	1.33	**1.43**	1.36
CBMH110	27.39	**29.355**	17.51	1.33	**1.43**	1.36
CBMH112	27.45	**29.415**	17.49	1.33	**1.43**	1.36
JUNC25	27.5	**29.465**	17.48	1.34	**1.43**	1.36
JUNC26	27.53	**29.495**	17.46	1.34	**1.43**	1.36
CBMH114	27.61	**29.575**	17.46	1.34	**1.44**	1.36
JUNC27	27.65	**29.615**	17.45	1.34	**1.44**	1.36
STMH115	31.22	**33.185**	17.44	1.52	**1.61**	1.49
STMH229	31.22	**33.185**	17.41	1.52	**1.61**	1.57

CROZIER
CONSULTING ENGINEERS

Project: Lora Bay Phase 4
Project No.: 469-3061
File: Allowable Peak Flow
Date: 22-Jul-18
By: A. Spencer
Revision Date: 24-Aug-18
Revised By: A. Spencer

Lora Bay Phase 4 - ALLOWABLE PEAK FLOW RATES

A4 Attributed Area SWM Pond No. 1 (H & P, 2004)	35.55 ha
Lora Bay Phase 4 Attributed Area (CFCA, 2018)	7.88 ha

Comparison at DIMH 100 - West Ridge Drive

Return Period	H & P 2004		Crozier 2018
	A4 Peak Flow (m^3/s)	Unit Flow Rate ($m^3/ha/s$)	Lora Bay Phase 4 Allowable Peak Flow (m^3/s)
2	0.1253	0.004	0.028
5	0.3085	0.009	0.068
10	0.447	0.013	0.099
25	0.8071	0.023	0.179
50	0.8326	0.023	0.185
100	1.0564	0.030	0.234

Notes:

1) H & P Peak Flow Rates obtained from 2004 H & P Master SWM Report for Area A4 in the post-development controlled model

2) Allowable Peak Flow Rates from Lora Bay Phase 4 development calculated using Unit Flow Rate for Area A4 from 2004 H & P Master SWM Report

```
00001> 2     Metric units
00002> *#*************************************************************************
00003> *#  Project Name: (Lora Bay Phase 4)                    Project Number:[469-3061]
00004> *#  Date         : August 9, 2018
00005> *#  Modeller     : [B. Ellsworth]
00006> *#  Company      : C.F. Crozier & Associates Inc.
00007> *#  License #    : 3737016
00008> *#*************************************************************************
00009> *#  Filename     :  Continuous Model
00010> *#  Continuous Model
00011> *#*************************************************************************
00012> *#*************************************************************************
00013> *#*************************************************************************
00014>
00015> *%-----------------|-------------------------------------------------------|
00016> START               TZERO=[0.0],  METOUT=[2],  NSTORM=[0],  NRUN=[0]
00017> *%                    [ ] <--storm filename, one per line for NSTORM time
00018> *%-----------------|-------------------------------------------------------|
00019>
00020> *#*************************************************************************
00021> *#*************************2 year Chicago Storm*****************************
00022> *#*************************************************************************
00023> *%-----------------|-------------------------------------------------------|
00024> READ STORM          STORM_FILENAME=["2yr.stm"]
00025> *%-----------------|-------------------------------------------------------|
00026> CALIB NASHYD        ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
00027>                     DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
00028>                     N=[3], TP=[0.42]hrs,
00029>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00030> *%-----------------|-------------------------------------------------------|
00031> ROUTE CHANNEL       IDout=[2], NHYD=["BCreek1"], IDin=[1],
00032>                     RDT=[1](min),
00033>                     CHLGTH=[422](m),  CHSLOPE=[1.3](%),
00034>                                       FPSLOPE=[1.3](%),
00035>                     SECNUM=[1.1],        NSEG=[3]
00036>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00037>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
00038>                                                   [1.75,1]
00039>                                                   [3.25,1]
00040>                                                   [5,3]
00041> *%-----------------|-------------------------------------------------------|
00042> CALIB NASHYD        ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00043>                     DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
00044>                     N=[3], TP=[0.59]hrs,
00045>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00046> *%-----------------|-------------------------------------------------------|
00047> ADD HYD            IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00048> *%-----------------|-------------------------------------------------------|
00049> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00050>                     PDIAM=[900](mm), PLNGTH=[162](m),
00051>                     PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00052>                     RDT=[1](min)
00053> *%-----------------|-------------------------------------------------------|
00054> CALIB NASHYD        ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00055>                     DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
00056>                     N=[3], TP=[0.58]hrs,
00057>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00058> *%-----------------|-------------------------------------------------------|
00059> ROUTE CHANNEL       IDout=[3], NHYD=["Overland1"], IDin=[2],
00060>                     RDT=[1](min),
00061>                     CHLGTH=[676](m),  CHSLOPE=[2.6](%),
00062>                                       FPSLOPE=[2.6](%),
00063>                     SECNUM=[1.1],        NSEG=[3]
00064>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00065>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
00066>                                                   [1000,1.7]
00067>                                                   [1001,1.4]
00068>                                                   [1002,1.7]
00069>                                                   [2000,2]
00070> *%-----------------|-------------------------------------------------------|
00071> CALIB NASHYD        ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00072>                     DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
00073>                     N=[3], TP=[0.53]hrs,
00074>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00075> *%-----------------|-------------------------------------------------------|
00076> ADD HYD            IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00077> *%-----------------|-------------------------------------------------------|
00078> ROUTE CHANNEL       IDout=[3], NHYD=["BCreek2"], IDin=[2],
00079>                     RDT=[1](min),
00080>                     CHLGTH=[261](m),  CHSLOPE=[2.3](%),
00081>                                       FPSLOPE=[2.3](%),
00082>                     SECNUM=[1.1],        NSEG=[3]
00083>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00084>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
00085>                                                   [1.75,1]
00086>                                                   [3.25,1]
00087>                                                   [5,3]
00088> *%-----------------|-------------------------------------------------------|
00089> ADD HYD            IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
00090> *%-----------------|-------------------------------------------------------|
00091> ROUTE CHANNEL       IDout=[3], NHYD=["BCreek3"], IDin=[2],
00092>                     RDT=[1](min),
00093>                     CHLGTH=[204](m),  CHSLOPE=[3](%),
00094>                                       FPSLOPE=[3](%),
00095>                     SECNUM=[1.1],        NSEG=[3]
00096>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00097>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
00098>                                                   [1.75,1]
00099>                                                   [3.25,1]
00100>                                                   [5,3]
00101> *%-----------------|-------------------------------------------------------|
00102> CALIB NASHYD        ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
00103>                     DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
00104>                     N=[3], TP=[0.48]hrs,
00105>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00106> *%-----------------|-------------------------------------------------------|
00107> CALIB NASHYD        ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
00108>                     DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
00109>                     N=[3], TP=[0.62]hrs,
00110>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00111> *%-----------------|-------------------------------------------------------|
00112> CALIB NASHYD        ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
00113>                     DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
00114>                     N=[3], TP=[0.75]hrs,
00115>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00116> *%-----------------|-------------------------------------------------------|
00117> CALIB STANDHYD      ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
00118>                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00119>                     SCS curve number CN=[49],
00120>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00121>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00122>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00123>                                          LGI=[326.70](m), MNI=[0.013], SCI=[0](m
00124>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00125> *%-----------------|-------------------------------------------------------|
00126> ADD HYD            IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
00127> *%-----------------|-------------------------------------------------------|
00128> ROUTE CHANNEL       IDout=[1], NHYD=["BCreek4"], IDin=[6],
00129>                     RDT=[1](min),
00130>                     CHLGTH=[647](m),  CHSLOPE=[3](%),
00131>                                       FPSLOPE=[3](%),
00132>                     SECNUM=[1.1],        NSEG=[3]
00133>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00134>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
00135>                                                   [1.75,1]
00136>                                                   [3.25,1]
00137>                                                   [5,3]
00138> *%-----------------|-------------------------------------------------------|
00139> CALIB NASHYD        ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
00140>                     DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
00141>                     N=[3], TP=[0.72]hrs,
00142>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00143> *%-----------------|-------------------------------------------------------|
00144> ADD HYD            IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
00145> *%-----------------|-------------------------------------------------------|
00146> CALIB NASHYD        ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
00147>                     DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
00148>                     N=[3], TP=[0.23]hrs,
00149>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00150> *%-----------------|-------------------------------------------------------|
00151> ROUTE CHANNEL       IDout=[2], NHYD=["Overland2"], IDin=[1],
00152>                     RDT=[1](min),
00153>                     CHLGTH=[550](m),  CHSLOPE=[2.3](%),
00154>                                       FPSLOPE=[2.3](%),
00155>                     SECNUM=[1.1],        NSEG=[3]
00156>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00157>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
00158>                                                   [1000,1.7]
00159>                                                   [1001,1.4]
00160>                                                   [1002,1.7]
00161>                                                   [2000,2]
00162> *%-----------------|-------------------------------------------------------|
00163> CALIB NASHYD        ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
00164>                     DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
00165>                     N=[3], TP=[0.47]hrs,
00166>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00167>
00168> *%-----------------|-------------------------------------------------------|
00169> ADD HYD            IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
00170> *%-----------------|-------------------------------------------------------|
00171> ROUTE CHANNEL       IDout=[8], NHYD=["Overland3"], IDin=[5],
00172>                     RDT=[1](min),
00173>                     CHLGTH=[500](m),  CHSLOPE=[4.0](%),
00174>                                       FPSLOPE=[4.0](%),
00175>                     SECNUM=[1.1],        NSEG=[3]
00176>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00177>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
00178>                                                   [1000,1.7]
00179>                                                   [1001,1.4]
00180>                                                   [1002,1.7]
00181>                                                   [2000,2]
00182> *%-----------------|-------------------------------------------------------|
00183> CALIB NASHYD        ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
00184>                     DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
00185>                     N=[3], TP=[0.45]hrs,
00186>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00187> *%-----------------|-------------------------------------------------------|
00188> ROUTE CHANNEL       IDout=[2], NHYD=["Overland4"], IDin=[1],
00189>                     RDT=[1](min),
00190>                     CHLGTH=[775](m),  CHSLOPE=[2.4](%),
00191>                                       FPSLOPE=[2.4](%),
00192>                     SECNUM=[1.1],        NSEG=[3]
00193>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00194>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
00195>                                                   [1000,1.7]
00196>                                                   [1001,1.4]
00197>                                                   {1002,1.7]
00198>                                                   [2000,2]
00199> *%-----------------|-------------------------------------------------------|
00200> CALIB NASHYD        ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
00201>                     DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
00202>                     N=[3], TP=[0.44]hrs,
00203>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00204> *%-----------------|-------------------------------------------------------|
00205> CALIB NASHYD        ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
00206>                     DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
00207>                     N=[3], TP=[0.58]hrs,
00208>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00209> *%-----------------|-------------------------------------------------------|
00210> ADD HYD            IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
00211> *%-----------------|-------------------------------------------------------|
00212> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
00213>                     PDIAM=[750](mm), PLNGTH=[450](m),
00214>                     PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
00215>                     RDT=[1](min)
00216> *%-----------------|-------------------------------------------------------|
00217> CALIB NASHYD        ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
00218>                     DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
00219>                     N=[3], TP=[0.47]hrs,
00220>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00221> *%-----------------|-------------------------------------------------------|
00222> ROUTE PIPE         PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
00223>                     PDIAM=[525](mm), PLNGTH=[435](m),
00224>                     PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
00225>                     RDT=[1](min)
00226> *%-----------------|-------------------------------------------------------|
00227> CALIB STANDHYD      ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
00228>                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00229>                     SCS curve number CN=[79],
00230>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00231>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00232>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00233>                                          LGI=[289.83](m), MNI=[0.013], SCI=[0](m
00234>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00235> *%-----------------|-------------------------------------------------------|
00236> ADD HYD            IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
00237> *%-----------------|-------------------------------------------------------|
00238> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
00239>                     PDIAM=[750](mm), PLNGTH=[305](m),
00240>                     PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
00241>                     RDT=[1](min)
00242> *%-----------------|-------------------------------------------------------|
00243> ADD HYD            IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
00244> *%-----------------|-------------------------------------------------------|
00245> CALIB NASHYD        ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
00246>                     DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
00247>                     N=[3], TP=[0.05]hrs,
00248>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00249> *%-----------------|-------------------------------------------------------|
00250> ADD HYD            IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
00251> *%-----------------|-------------------------------------------------------|
00252> ROUTE RESERVOIR     IDout=[1],   NHYD=["SWM1"],   IDin=[3],
00253>                     RDT=[1](min),
00254>                           TABLE of ( OUTFLOW-STORAGE ) values
00255>                                 (cms) - (ha-m)
00256>                                 [   0.0 ,   0.0 ]
00257>                                 [   0.0097    ,     0.1406  ]
00258>                                 [   0.0352    ,     0.3212  ]
00259>                                 [   0.0764    ,     0.5018  ]
00260>                                 [   0.0986    ,     0.6823  ]
00261>                                 [   0.1547    ,     0.8629  ]
00262>                                 [   0.3283    ,     1.0435  ]
00263>                                 [   0.5673    ,     1.2430  ]
00264>                                 [   0.8560    ,     1.4426  ]
00265>                                 [   1.1868    ,     1.6421  ]
00266>                                 [   1.5548    ,     1.8417  ]
00267>                                 [   1.9562    ,     2.0412  ]
00268>                                 [   2.3891    ,     2.2712  ]
00269>                                 [   2.8505    ,     2.5013  ]
00270>                                 [   3.3385    ,     2.7313  ]
```

```
                                    [   3.8521    ,    2.9614  ]
                                    [   4.3895    ,    3.1914  ]
                                    [   5.8341    ,    3.8362  ]
                                    [   -1    ,   -1  ]  (max twenty pts)
                          IDovf=[2], NHYDovf=["Spillflow"]
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[4], NHYD=["Pond 2yr"], IDs to add=[1+2]
*%----------|-------------------------------------------------------------|
SAVE HYD    ID=[4],   # OF PCYCLES=[1],   ICASEsh=[-1]
            HYD_FILENAME=["Pond2yr"]
            HYD_COMMENT=["Pond2yr"]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
            DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
            N=[3], TP=[0.2]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
            DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
            N=[3], TP=[0.15]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
            DWF=[0](cms),  CN/C=[76], IA=[8](mm),
            N=[3], TP=[0.32]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
CALIB STANDHYD  ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
            XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
            SCS curve number CN=[79],
            Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                 LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
            Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                 LGI=[128.84](m), MNI=[0.013], SCI=[0](m
            RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr) ,  END=-1
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%----------|-------------------------------------------------------------|
CALIB STANDHYD  ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
            XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
            SCS curve number CN=[79],
            Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                 LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
            Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                 LGI=[147.42](m), MNI=[0.013], SCI=[0](m
            RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr) ,  END=-1
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
            DWF=[0](cms),  CN/C=[76], IA=[8](mm),
            N=[3], TP=[0.09]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%----------|-------------------------------------------------------------|
*#*************************************************************************
*#*************************5 year Chicago Storm*****************************
*#*************************************************************************
*%----------|-------------------------------------------------------------|
READ STORM  STORM_FILENAME=["5yr.stm"]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
            DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
            N=[3], TP=[0.42]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ROUTE CHANNEL  IDout=[2], NHYD=["BCreek1"], IDin=[1],
            RDT=[1](min),
            CHLGTH=[422](m),   CHSLOPE=[1.3](%),
                               FPSLOPE=[1.3](%),
            SECNUM=[1.1],      NSEG=[3]
            ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
            ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                [1.75,1]
                                                [3.25,1]
                                                [5,3]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
            DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
            N=[3], TP=[0.59]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%----------|-------------------------------------------------------------|
ROUTE PIPE  PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
            PDIAM=[900](mm), PLNGTH=[162](m),
            PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
            RDT=[1](min)
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
            DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
            N=[3], TP=[0.58]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ROUTE CHANNEL  IDout=[3], NHYD=["Overland1"], IDin=[2],
            RDT=[1](min),
            CHLGTH=[676](m),   CHSLOPE=[2.6](%),
                               FPSLOPE=[2.6](%),
            SECNUM=[1.1],      NSEG=[3]
            ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
            ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                [1000,1.7]
                                                [1001,1.4]
                                                [1002,1.7]
                                                [2000,2]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
            DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
            N=[3], TP=[0.53]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*%----------|-------------------------------------------------------------|
ROUTE CHANNEL  IDout=[3], NHYD=["BCreek2"], IDin=[2],
            RDT=[1](min),
            CHLGTH=[261](m),   CHSLOPE=[2.3](%),
                               FPSLOPE=[2.3](%),
            SECNUM=[1.1],      NSEG=[3]
            ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
            ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                [1.75,1]
                                                [3.25,1]
                                                [5,3]
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*%----------|-------------------------------------------------------------|
ROUTE CHANNEL  IDout=[3], NHYD=["BCreek3"], IDin=[2],
            RDT=[1](min),
            CHLGTH=[204](m),   CHSLOPE=[3](%),
                               FPSLOPE=[3](%),
            SECNUM=[1.1],      NSEG=[3]
            ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
            ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                [1.75,1]
                                                [3.25,1]
                                                [5,3]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
            DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
            N=[3], TP=[0.48]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
            DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
            N=[3], TP=[0.62]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
            DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
            N=[3], TP=[0.75]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
CALIB STANDHYD  ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
            XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
            SCS curve number CN=[49],
            Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                 LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
            Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                 LGI=[326.70](m), MNI=[0.013], SCI=[0](m
            RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr) ,  END=-1
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*%----------|-------------------------------------------------------------|
ROUTE CHANNEL  IDout=[1], NHYD=["BCreek4"], IDin=[6],
            RDT=[1](min),
            CHLGTH=[647](m),   CHSLOPE=[3](%),
                               FPSLOPE=[3](%),
            SECNUM=[1.1],      NSEG=[3]
            ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
            ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                [1.75,1]
                                                [3.25,1]
                                                [5,3]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
            DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
            N=[3], TP=[0.72]hrs,
            RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
            DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
            N=[3], TP=[0.23]hrs,
            RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ROUTE CHANNEL  IDout=[2], NHYD=["Overland2"], IDin=[1],
            RDT=[1](min),
            CHLGTH=[550](m),   CHSLOPE=[2.3](%),
                               FPSLOPE=[2.3](%),
            SECNUM=[1.1],      NSEG=[3]
            ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
            ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                [1000,1.7]
                                                [1001,1.4]
                                                [1002,1.7]
                                                [2000,2]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
            DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
            N=[3], TP=[0.47]hrs,
            RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1

*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%----------|-------------------------------------------------------------|
ROUTE CHANNEL  IDout=[8], NHYD=["Overland3"], IDin=[5],
            RDT=[1](min),
            CHLGTH=[500](m),   CHSLOPE=[4.0](%),
                               FPSLOPE=[4.0](%),
            SECNUM=[1.1],      NSEG=[3]
            ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
            ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                [1000,1.7]
                                                [1001,1.4]
                                                [1002,1.7]
                                                [2000,2]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
            DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
            N=[3], TP=[0.45]hrs,
            RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ROUTE CHANNEL  IDout=[2], NHYD=["Overland4"], IDin=[1],
            RDT=[1](min),
            CHLGTH=[775](m),   CHSLOPE=[2.4](%),
                               FPSLOPE=[2.4](%),
            SECNUM=[1.1],      NSEG=[3]
            ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
            ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                [1000,1.7]
                                                [1001,1.4]
                                                [1002,1.7]
                                                [2000,2]
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
            DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
            N=[3], TP=[0.44]hrs,
            RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
            DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
            N=[3], TP=[0.58]hrs,
            RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ADD HYD     IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
*%----------|-------------------------------------------------------------|
ROUTE PIPE  PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
            PDIAM=[750](mm), PLNGTH=[450](m),
            PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
            RDT=[1](min)
*%----------|-------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
            DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
            N=[3], TP=[0.47]hrs,
            RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%----------|-------------------------------------------------------------|
ROUTE PIPE  PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
            PDIAM=[525](mm), PLNGTH=[435](m),
            PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
            RDT=[1](min)
*%----------|-------------------------------------------------------------|
CALIB STANDHYD  ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
            XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
            SCS curve number CN=[79],
            Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                 LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
            Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                 LGI=[289.83](m), MNI=[0.013], SCI=[0](m
            RAINFALL=[ ,  ,  ,  ,  ](mm/hr) ,  END=-1
*%----------|-------------------------------------------------------------|
```

```
00541> ADD HYD              IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
00542> *%-------------------|-------------------------------------------------------|
00543> ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
00544>                      PDIAM=[750](mm), PLNGTH=[305](m),
00545>                      PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
00546>                      RDT=[1](min)
00547> *%-------------------|-------------------------------------------------------|
00548> ADD HYD              IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
00549> *%-------------------|-------------------------------------------------------|
00550> CALIB NASHYD         ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
00551>                      DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
00552>                      N=[3], TP=[0.05]hrs,
00553>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00554> *%-------------------|-------------------------------------------------------|
00555> ADD HYD              IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
00556> *%-------------------|-------------------------------------------------------|
00557> ROUTE RESERVOIR      IDout=[1],   NHYD=["SWM1"],  IDin=[3],
00558>                      RDT=[1](min),
00559>                            TABLE of ( OUTFLOW-STORAGE ) values
00560>                                     (cms) - (ha-m)
00561>                                  [  0.0 ,  0.0 ]
00562>                                  [  0.0097    ,    0.1406  ]
00563>                                  [  0.0352    ,    0.3212  ]
00564>                                  [  0.0764    ,    0.5018  ]
00565>                                  [  0.0986    ,    0.6823  ]
00566>                                  [  0.1547    ,    0.8629  ]
00567>                                  [  0.3283    ,    1.0435  ]
00568>                                  [  0.5673    ,    1.2430  ]
00569>                                  [  0.8560    ,    1.4426  ]
00570>                                  [  1.1868    ,    1.6421  ]
00571>                                  [  1.5548    ,    1.8417  ]
00572>                                  [  1.9562    ,    2.0412  ]
00573>                                  [  2.3891    ,    2.2712  ]
00574>                                  [  2.8505    ,    2.5013  ]
00575>                                  [  3.3385    ,    2.7313  ]
00576>                                  [  3.8521    ,    2.9614  ]
00577>                                  [  4.3895    ,    3.1914  ]
00578>                                  [  5.8341    ,    3.8362  ]
00579>                                  [  -1    ,   -1  ]   (max twenty pts)
00580>                      IDovf=[2], NHYDovf=["Spillflow"]
00581> *%-------------------|-------------------------------------------------------|
00582> ADD HYD              IDsum=[4], NHYD=["Pond 5yr"], IDs to add=[1+2]
00583> *%-------------------|-------------------------------------------------------|
00584> SAVE HYD             ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
00585>                      HYD_FILENAME=["Pond5yr"]
00586>                      HYD_COMMENT=["Pond5yr"]
00587> *%-------------------|-------------------------------------------------------|
00588> CALIB NASHYD         ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
00589>                      DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
00590>                      N=[3], TP=[0.2]hrs,
00591>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00592> *%-------------------|-------------------------------------------------------|
00593> CALIB NASHYD         ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
00594>                      DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
00595>                      N=[3], TP=[0.15]hrs,
00596>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00597> *%-------------------|-------------------------------------------------------|
00598> CALIB NASHYD         ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
00599>                      DWF=[0](cms),  CN/C=[76], IA=[8](mm),
00600>                      N=[3], TP=[0.32]hrs,
00601>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00602> *%-------------------|-------------------------------------------------------|
00603> CALIB STANDHYD       ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
00604>                      XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
00605>                      SCS curve number CN=[79],
00606>                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00607>                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00608>                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00609>                                           LGI=[128.84](m), MNI=[0.013], SCI=[0](m
00610>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00611> *%-------------------|-------------------------------------------------------|
00612> ADD HYD              IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
00613> *%-------------------|-------------------------------------------------------|
00614> CALIB STANDHYD       ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
00615>                      XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
00616>                      SCS curve number CN=[79],
00617>                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00618>                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00619>                      Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
00620>                                           LGI=[147.42](m), MNI=[0.013], SCI=[0](m
00621>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00622> *%-------------------|-------------------------------------------------------|
00623> CALIB NASHYD         ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
00624>                      DWF=[0](cms),  CN/C=[76], IA=[8](mm),
00625>                      N=[3], TP=[0.09]hrs,
00626>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00627> *%-------------------|-------------------------------------------------------|
00628> ADD HYD              IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
00629> *%-------------------|-------------------------------------------------------|
00630> *#**********************************************************************
00631> *#**************************10 year Chicago Storm*************************
00632> *#**********************************************************************
00633> *%-------------------|-------------------------------------------------------|
00634> READ STORM           STORM_FILENAME=["10yr.stm"]
00635> *%-------------------|-------------------------------------------------------|
00636> CALIB NASHYD         ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
00637>                      DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
00638>                      N=[3], TP=[0.42]hrs,
00639>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00640> *%-------------------|-------------------------------------------------------|
00641> ROUTE CHANNEL        IDout=[2], NHYD=["BCreek1"], IDin=[1],
00642>                      RDT=[1](min),
00643>                      CHLGTH=[422](m),  CHSLOPE=[1.3](%),
00644>                                        FPSLOPE=[1.3](%),
00645>                      SECNUM=[1.1],       NSEG=[3]
00646>                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00647>                      ( DISTANCE (m), ELEVATION (m))=[0,3]
00648>                                                    [1.75,1]
00649>                                                    [3.25,1]
00650>                                                    [5,3]
00651> *%-------------------|-------------------------------------------------------|
00652> CALIB NASHYD         ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00653>                      DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
00654>                      N=[3], TP=[0.59]hrs,
00655>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00656> *%-------------------|-------------------------------------------------------|
00657> ADD HYD              IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00658> *%-------------------|-------------------------------------------------------|
00659> ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00660>                      PDIAM=[900](mm), PLNGTH=[162](m),
00661>                      PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00662>                      RDT=[1](min)
00663> *%-------------------|-------------------------------------------------------|
00664> CALIB NASHYD         ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00665>                      DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
00666>                      N=[3], TP=[0.58]hrs,
00667>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00668> *%-------------------|-------------------------------------------------------|
00669> ROUTE CHANNEL        IDout=[3], NHYD=["Overland1"], IDin=[2],
00670>                      RDT=[1](min),
00671>                      CHLGTH=[676](m),  CHSLOPE=[2.6](%),
00672>                                        FPSLOPE=[2.6](%),
00673>                      SECNUM=[1.1],       NSEG=[3]
00674>                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00675>                      ( DISTANCE (m), ELEVATION (m))=[0,2]
00676>                                                    [1000,1.7]
00677>                                                    [1001,1.4]
00678>                                                    [1002,1.7]
00679>                                                    [2000,2]
00680> *%-------------------|-------------------------------------------------------|
00681> CALIB NASHYD         ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00682>                      DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
00683>                      N=[3], TP=[0.53]hrs,
00684>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00685> *%-------------------|-------------------------------------------------------|
00686> ADD HYD              IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00687> *%-------------------|-------------------------------------------------------|
00688> ROUTE CHANNEL        IDout=[3], NHYD=["BCreek2"], IDin=[2],
00689>                      RDT=[1](min),
00690>                      CHLGTH=[261](m),  CHSLOPE=[2.3](%),
00691>                                        FPSLOPE=[2.3](%),
00692>                      SECNUM=[1.1],       NSEG=[3]
00693>                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00694>                      ( DISTANCE (m), ELEVATION (m))=[0,3]
00695>                                                    [1.75,1]
00696>                                                    [3.25,1]
00697>                                                    [5,3]
00698> *%-------------------|-------------------------------------------------------|
00699> ADD HYD              IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
00700> *%-------------------|-------------------------------------------------------|
00701> ROUTE CHANNEL        IDout=[3], NHYD=["BCreek3"], IDin=[2],
00702>                      RDT=[1](min),
00703>                      CHLGTH=[204](m),  CHSLOPE=[3](%),
00704>                                        FPSLOPE=[3](%),
00705>                      SECNUM=[1.1],       NSEG=[3]
00706>                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00707>                      ( DISTANCE (m), ELEVATION (m))=[0,3]
00708>                                                    [1.75,1]
00709>                                                    [3.25,1]
00710>                                                    [5,3]
00711> *%-------------------|-------------------------------------------------------|
00712> CALIB NASHYD         ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
00713>                      DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
00714>                      N=[3], TP=[0.48]hrs,
00715>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00716> *%-------------------|-------------------------------------------------------|
00717> CALIB NASHYD         ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
00718>                      DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
00719>                      N=[3], TP=[0.62]hrs,
00720>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00721> *%-------------------|-------------------------------------------------------|
00722> CALIB NASHYD         ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
00723>                      DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
00724>                      N=[3], TP=[0.75]hrs,
00725>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00726> *%-------------------|-------------------------------------------------------|
00727> CALIB STANDHYD       ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
00728>                      XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00729>                      SCS curve number CN=[49],
00730>                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00731>                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00732>                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00733>                                           LGI=[326.70](m), MNI=[0.013], SCI=[0](m
00734>                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
00735> *%-------------------|-------------------------------------------------------|
00736> ADD HYD              IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
00737> *%-------------------|-------------------------------------------------------|
00738> ROUTE CHANNEL        IDout=[1], NHYD=["BCreek4"], IDin=[6],
00739>                      RDT=[1](min),
00740>                      CHLGTH=[647](m),  CHSLOPE=[3](%),
00741>                                        FPSLOPE=[3](%),
00742>                      SECNUM=[1.1],       NSEG=[3]
00743>                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00744>                      ( DISTANCE (m), ELEVATION (m))=[0,3]
00745>                                                    [1.75,1]
00746>                                                    [3.25,1]
00747>                                                    [5,3]
00748> *%-------------------|-------------------------------------------------------|
00749> CALIB NASHYD         ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
00750>                      DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
00751>                      N=[3], TP=[0.72]hrs,
00752>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00753> *%-------------------|-------------------------------------------------------|
00754> ADD HYD              IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
00755> *%-------------------|-------------------------------------------------------|
00756> CALIB NASHYD         ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
00757>                      DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
00758>                      N=[3], TP=[0.23]hrs,
00759>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00760> *%-------------------|-------------------------------------------------------|
00761> ROUTE CHANNEL        IDout=[2], NHYD=["Overland2"], IDin=[1],
00762>                      RDT=[1](min),
00763>                      CHLGTH=[550](m),  CHSLOPE=[2.3](%),
00764>                                        FPSLOPE=[2.3](%),
00765>                      SECNUM=[1.1],       NSEG=[3]
00766>                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00767>                      ( DISTANCE (m), ELEVATION (m))=[0,2]
00768>                                                    [1000,1.7]
00769>                                                    [1001,1.4]
00770>                                                    [1002,1.7]
00771>                                                    [2000,2]
00772> *%-------------------|-------------------------------------------------------|
00773> CALIB NASHYD         ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
00774>                      DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
00775>                      N=[3], TP=[0.47]hrs,
00776>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00777>
00778> *%-------------------|-------------------------------------------------------|
00779> ADD HYD              IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
00780> *%-------------------|-------------------------------------------------------|
00781> ROUTE CHANNEL        IDout=[8], NHYD=["Overland3"], IDin=[5],
00782>                      RDT=[1](min),
00783>                      CHLGTH=[500](m),  CHSLOPE=[4.0](%),
00784>                                        FPSLOPE=[4.0](%),
00785>                      SECNUM=[1.1],       NSEG=[3]
00786>                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00787>                      ( DISTANCE (m), ELEVATION (m))=[0,2]
00788>                                                    [1000,1.7]
00789>                                                    [1001,1.4]
00790>                                                    [1002,1.7]
00791>                                                    [2000,2]
00792> *%-------------------|-------------------------------------------------------|
00793> CALIB NASHYD         ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
00794>                      DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
00795>                      N=[3], TP=[0.45]hrs,
00796>                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00797> *%-------------------|-------------------------------------------------------|
00798> ROUTE CHANNEL        IDout=[2], NHYD=["Overland4"], IDin=[1],
00799>                      RDT=[1](min),
00800>                      CHLGTH=[775](m),  CHSLOPE=[2.4](%),
00801>                                        FPSLOPE=[2.4](%),
00802>                      SECNUM=[1.1],       NSEG=[3]
00803>                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00804>                      ( DISTANCE (m), ELEVATION (m))=[0,2]
00805>                                                    [1000,1.7]
00806>                                                    [1001,1.4]
00807>                                                    [1002,1.7]
00808>                                                    [2000,2]
00809> *%-------------------|-------------------------------------------------------|
00810> CALIB NASHYD         ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
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00811>                    DWF=[0](cms),  CN/C=[73.0],  IA=[7.41](mm),
00812>                    N=[3], TP=[0.44]hrs,
00813>                    RAINFALL=[  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00814> *%----------------|-------------------------------------------------------|
00815> CALIB NASHYD       ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
00816>                    DWF=[0](cms),  CN/C=[74.8],  IA=[8.84](mm),
00817>                    N=[3], TP=[0.58]hrs,
00818>                    RAINFALL=[  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00819> *%----------------|-------------------------------------------------------|
00820> ADD HYD           IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
00821> *%----------------|-------------------------------------------------------|
00822> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
00823>                    PDIAM=[750](mm), PLNGTH=[450](m),
00824>                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
00825>                    RDT=[1](min)
00826> *%----------------|-------------------------------------------------------|
00827> CALIB NASHYD       ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
00828>                    DWF=[0](cms),  CN/C=[43.9],  IA=[6.5](mm),
00829>                    N=[3], TP=[0.47]hrs,
00830>                    RAINFALL=[  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00831> *%----------------|-------------------------------------------------------|
00832> ROUTE PIPE        PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
00833>                    PDIAM=[525](mm), PLNGTH=[435](m),
00834>                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
00835>                    RDT=[1](min)
00836> *%----------------|-------------------------------------------------------|
00837> CALIB STANDHYD     ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
00838>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00839>                    SCS curve number CN=[79],
00840>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00841>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00842>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00843>                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
00844>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr) ,  END=-1
00845> *%----------------|-------------------------------------------------------|
00846> ADD HYD           IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
00847> *%----------------|-------------------------------------------------------|
00848> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
00849>                    PDIAM=[750](mm), PLNGTH=[305](m),
00850>                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
00851>                    RDT=[1](min)
00852> *%----------------|-------------------------------------------------------|
00853> ADD HYD           IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
00854> *%----------------|-------------------------------------------------------|
00855> CALIB NASHYD       ID=[1], NHYD=["SWM6"], DT=[1]min, AREA=[6.8](ha),
00856>                    DWF=[0](cms),  CN/C=[91.7],  IA=[2.99](mm),
00857>                    N=[3], TP=[0.05]hrs,
00858>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00859> *%----------------|-------------------------------------------------------|
00860> ADD HYD           IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
00861> *%----------------|-------------------------------------------------------|
00862> ROUTE RESERVOIR    IDout=[1],   NHYD=["SWM1"],  IDin=[3],
00863>                    RDT=[1](min),
00864>                         TABLE of ( OUTFLOW-STORAGE ) values
00865>                                  (cms) - (ha-m)
00866>                              [  0.0 ,  0.0 ]
00867>                              [  0.0097    ,    0.1406  ]
00868>                              [  0.0352    ,    0.3212  ]
00869>                              [  0.0764    ,    0.5018  ]
00870>                              [  0.0986    ,    0.6823  ]
00871>                              [  0.1547    ,    0.8629  ]
00872>                              [  0.3283    ,    1.0435  ]
00873>                              [  0.5673    ,    1.2430  ]
00874>                              [  0.8560    ,    1.4426  ]
00875>                              [  1.1868    ,    1.6421  ]
00876>                              [  1.5548    ,    1.8417  ]
00877>                              [  1.9562    ,    2.0412  ]
00878>                              [  2.3891    ,    2.2712  ]
00879>                              [  2.8505    ,    2.5013  ]
00880>                              [  3.3385    ,    2.7313  ]
00881>                              [  3.8521    ,    2.9614  ]
00882>                              [  4.3895    ,    3.1914  ]
00883>                              [  5.8341    ,    3.8362  ]
00884>                              [  -1    ,   -1  ]  (max twenty pts)
00885>                         IDovf=[2], NHYDovf=["Spillflow"]
00886> *%----------------|-------------------------------------------------------|
00887> ADD HYD           IDsum=[4], NHYD=["Pond 10yr"], IDs to add=[1+2]
00888> *%----------------|-------------------------------------------------------|
00889> SAVE HYD          ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
00890>                    HYD_FILENAME=["Pond10yr"]
00891>                    HYD_COMMENT=["Pond10yr"]
00892> *%----------------|-------------------------------------------------------|
00893> CALIB NASHYD       ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
00894>                    DWF=[0](cms),  CN/C=[80.8],  IA=[5.94](mm),
00895>                    N=[3], TP=[0.2]hrs,
00896>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00897> *%----------------|-------------------------------------------------------|
00898> CALIB NASHYD       ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
00899>                    DWF=[0](cms),  CN/C=[76.2],  IA=[7.38](mm),
00900>                    N=[3], TP=[0.15]hrs,
00901>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00902> *%----------------|-------------------------------------------------------|
00903> CALIB NASHYD       ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
00904>                    DWF=[0](cms),  CN/C=[76],  IA=[8](mm),
00905>                    N=[3], TP=[0.32]hrs,
00906>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00907> *%----------------|-------------------------------------------------------|
00908> CALIB STANDHYD     ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
00909>                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
00910>                    SCS curve number CN=[79],
00911>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00912>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00913>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00914>                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
00915>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr) ,  END=-1
00916> *%----------------|-------------------------------------------------------|
00917> ADD HYD           IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
00918> *%----------------|-------------------------------------------------------|
00919> CALIB STANDHYD     ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
00920>                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
00921>                    SCS curve number CN=[79],
00922>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00923>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00924>                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
00925>                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
00926>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr) ,  END=-1
00927> *%----------------|-------------------------------------------------------|
00928> CALIB NASHYD       ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
00929>                    DWF=[0](cms),  CN/C=[76],  IA=[8](mm),
00930>                    N=[3], TP=[0.09]hrs,
00931>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00932> *%----------------|-------------------------------------------------------|
00933> ADD HYD           IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
00934> *%----------------|-------------------------------------------------------|
00935> *#**************************************************************************
00936> *#**************************25 year Chicago Storm*****************************
00937> *#**************************************************************************
00938> *%----------------|-------------------------------------------------------|
00939> READ STORM        STORM_FILENAME=["25yr.stm"]
00940> *%----------------|-------------------------------------------------------|
00941> CALIB NASHYD       ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
00942>                    DWF=[0](cms),  CN/C=[74.2],  IA=[9.59](mm),
00943>                    N=[3], TP=[0.42]hrs,
00944>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00945> *%----------------|-------------------------------------------------------|
00946> ROUTE CHANNEL      IDout=[2], NHYD=["BCreek1"], IDin=[1],
00947>                    RDT=[1](min),
00948>                    CHLGTH=[422](m),  CHSLOPE=[1.3](%),
00949>                                      FPSLOPE=[1.3](%),
00950>                    SECNUM=[1.1],       NSEG=[3]
00951>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00952>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00953>                                                 [1.75,1]
00954>                                                 [3.25,1]
00955>                                                 [5,3]
00956> *%----------------|-------------------------------------------------------|
00957> CALIB NASHYD       ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00958>                    DWF=[0](cms),  CN/C=[65.7],  IA=[9.61](mm),
00959>                    N=[3], TP=[0.59]hrs,
00960>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00961> *%----------------|-------------------------------------------------------|
00962> ADD HYD           IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00963> *%----------------|-------------------------------------------------------|
00964> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00965>                    PDIAM=[900](mm), PLNGTH=[162](m),
00966>                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00967>                    RDT=[1](min)
00968> *%----------------|-------------------------------------------------------|
00969> CALIB NASHYD       ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00970>                    DWF=[0](cms),  CN/C=[74],  IA=[9.58](mm),
00971>                    N=[3], TP=[0.58]hrs,
00972>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00973> *%----------------|-------------------------------------------------------|
00974> ROUTE CHANNEL      IDout=[3], NHYD=["Overland1"], IDin=[2],
00975>                    RDT=[1](min),
00976>                    CHLGTH=[676](m),  CHSLOPE=[2.6](%),
00977>                                      FPSLOPE=[2.6](%),
00978>                    SECNUM=[1.1],       NSEG=[3]
00979>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00980>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00981>                                                 [1000,1.7]
00982>                                                 [1001,1.4]
00983>                                                 [1002,1.7]
00984>                                                 [2000,2]
00985> *%----------------|-------------------------------------------------------|
00986> CALIB NASHYD       ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00987>                    DWF=[0](cms),  CN/C=[71],  IA=[9.89](mm),
00988>                    N=[3], TP=[0.53]hrs,
00989>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00990> *%----------------|-------------------------------------------------------|
00991> ADD HYD           IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00992> *%----------------|-------------------------------------------------------|
00993> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek2"], IDin=[2],
00994>                    RDT=[1](min),
00995>                    CHLGTH=[261](m),  CHSLOPE=[2.3](%),
00996>                                      FPSLOPE=[2.3](%),
00997>                    SECNUM=[1.1],       NSEG=[3]
00998>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00999>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01000>                                                 [1.75,1]
01001>                                                 [3.25,1]
01002>                                                 [5,3]
01003> *%----------------|-------------------------------------------------------|
01004> ADD HYD           IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
01005> *%----------------|-------------------------------------------------------|
01006> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek3"], IDin=[2],
01007>                    RDT=[1](min),
01008>                    CHLGTH=[204](m),  CHSLOPE=[3](%),
01009>                                      FPSLOPE=[3](%),
01010>                    SECNUM=[1.1],       NSEG=[3]
01011>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01012>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01013>                                                 [1.75,1]
01014>                                                 [3.25,1]
01015>                                                 [5,3]
01016> *%----------------|-------------------------------------------------------|
01017> CALIB NASHYD       ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
01018>                    DWF=[0](cms),  CN/C=[46.2],  IA=[7.03](mm),
01019>                    N=[3], TP=[0.48]hrs,
01020>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
01021> *%----------------|-------------------------------------------------------|
01022> CALIB NASHYD       ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.33](ha),
01023>                    DWF=[0](cms),  CN/C=[67.6],  IA=[5.19](mm),
01024>                    N=[3], TP=[0.62]hrs,
01025>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
01026> *%----------------|-------------------------------------------------------|
01027> CALIB NASHYD       ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
01028>                    DWF=[0](cms),  CN/C=[81.9],  IA=[4.55](mm),
01029>                    N=[3], TP=[0.75]hrs,
01030>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
01031> *%----------------|-------------------------------------------------------|
01032> CALIB STANDHYD     ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
01033>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01034>                    SCS curve number CN=[49],
01035>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01036>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01037>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01038>                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
01039>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr) ,  END=-1
01040> *%----------------|-------------------------------------------------------|
01041> ADD HYD           IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
01042> *%----------------|-------------------------------------------------------|
01043> ROUTE CHANNEL      IDout=[1], NHYD=["BCreek4"], IDin=[6],
01044>                    RDT=[1](min),
01045>                    CHLGTH=[647](m),  CHSLOPE=[3](%),
01046>                                      FPSLOPE=[3](%),
01047>                    SECNUM=[1.1],       NSEG=[3]
01048>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01049>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01050>                                                 [1.75,1]
01051>                                                 [3.25,1]
01052>                                                 [5,3]
01053> *%----------------|-------------------------------------------------------|
01054> CALIB NASHYD       ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
01055>                    DWF=[0](cms),  CN/C=[78.4],  IA=[5.5](mm),
01056>                    N=[3], TP=[0.72]hrs,
01057>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
01058> *%----------------|-------------------------------------------------------|
01059> ADD HYD           IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
01060> *%----------------|-------------------------------------------------------|
01061> CALIB NASHYD       ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
01062>                    DWF=[0](cms),  CN/C=[73.6],  IA=[9.74](mm),
01063>                    N=[3], TP=[0.23]hrs,
01064>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
01065> *%----------------|-------------------------------------------------------|
01066> ROUTE CHANNEL      IDout=[2], NHYD=["Overland2"], IDin=[1],
01067>                    RDT=[1](min),
01068>                    CHLGTH=[550](m),  CHSLOPE=[2.3](%),
01069>                                      FPSLOPE=[2.3](%),
01070>                    SECNUM=[1.1],       NSEG=[3]
01071>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01072>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
01073>                                                 [1000,1.7]
01074>                                                 [1001,1.4]
01075>                                                 [1002,1.7]
01076>                                                 [2000,2]
01077> *%----------------|-------------------------------------------------------|
01078> CALIB NASHYD       ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
01079>                    DWF=[0](cms),  CN/C=[73.9],  IA=[9.53](mm),
01080>                    N=[3], TP=[0.47]hrs,
```

```
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1

*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%-----------------|-----------------------------------------------------------|
ROUTE CHANNEL         IDout=[8], NHYD=["Overland3"], IDin=[5],
                      RDT=[1](min),
                      CHLGTH=[500](m),   CHSLOPE=[4.0](%),
                                         FPSLOPE=[4.0](%),
                      SECNUM=[1.1],        NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                      ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                     [1000,1.7]
                                                     [1001,1.4]
                                                     [1002,1.7]
                                                     [2000,2]
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                      DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
                      N=[3], TP=[0.45]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ROUTE CHANNEL         IDout=[2], NHYD=["Overland4"], IDin=[1],
                      RDT=[1](min),
                      CHLGTH=[775](m),   CHSLOPE=[2.4](%),
                                         FPSLOPE=[2.4](%),
                      SECNUM=[1.1],        NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                      ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                     [1000,1.7]
                                                     [1001,1.4]
                                                     [1002,1.7]
                                                     [2000,2]
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
                      DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
                      N=[3], TP=[0.44]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
                      DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
                      N=[3], TP=[0.58]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
*%-----------------|-----------------------------------------------------------|
ROUTE PIPE            PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                      PDIAM=[750](mm), PLNGTH=[450](m),
                      PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                      RDT=[1](min)
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                      DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
                      N=[3], TP=[0.47]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ROUTE PIPE            PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                      PDIAM=[525](mm), PLNGTH=[435](m),
                      PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                      RDT=[1](min)
*%-----------------|-----------------------------------------------------------|
CALIB STANDHYD        ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                      XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[79],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                           LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%-----------------|-----------------------------------------------------------|
ROUTE PIPE            PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                      PDIAM=[750](mm), PLNGTH=[305](m),
                      PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                      RDT=[1](min)
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                      DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                      N=[3], TP=[0.05]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%-----------------|-----------------------------------------------------------|
ROUTE RESERVOIR       IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                      RDT=[1](min),
                            TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                      [  0.0 ,  0.0 ]
                                      [  0.0097   ,   0.1406  ]
                                      [  0.0352   ,   0.3212  ]
                                      [  0.0764   ,   0.5018  ]
                                      [  0.0986   ,   0.6823  ]
                                      [  0.1547   ,   0.8629  ]
                                      [  0.3283   ,   1.0435  ]
                                      [  0.5673   ,   1.2430  ]
                                      [  0.8560   ,   1.4426  ]
                                      [  1.1868   ,   1.6421  ]
                                      [  1.5548   ,   1.8417  ]
                                      [  1.9562   ,   2.0412  ]
                                      [  2.3891   ,   2.2712  ]
                                      [  2.8505   ,   2.5013  ]
                                      [  3.3385   ,   2.7313  ]
                                      [  3.8521   ,   2.9614  ]
                                      [  4.3895   ,   3.1914  ]
                                      [  5.8341   ,   3.8362  ]
                                      [  -1  ,  -1  ]  (max twenty pts)
                            IDovf=[2], NHYDovf=["Spillflow"]
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[4], NHYD=["Pond 25yr"], IDs to add=[1+2]
*%-----------------|-----------------------------------------------------------|
SAVE HYD              ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                      HYD_FILENAME=["Pond25yr"]
                      HYD_COMMENT=["Pond25yr"]
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
                      DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
                      N=[3], TP=[0.2]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                      DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                      N=[3], TP=[0.15]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                      DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                      N=[3], TP=[0.32]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
CALIB STANDHYD        ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                      XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[79],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                           LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%-----------------|-----------------------------------------------------------|
CALIB STANDHYD        ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                      XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[79],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                           LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                      DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                      N=[3], TP=[0.09]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%-----------------|-----------------------------------------------------------|
*#*****************************************************************************
*#*************************50 year Chicago Storm*******************************
*#*****************************************************************************
*%-----------------|-----------------------------------------------------------|
READ STORM            STORM_FILENAME=["50yr.stm"]
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                      DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                      N=[3], TP=[0.42]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ROUTE CHANNEL         IDout=[2], NHYD=["BCreek1"], IDin=[1],
                      RDT=[1](min),
                      CHLGTH=[422](m),   CHSLOPE=[1.3](%),
                                         FPSLOPE=[1.3](%),
                      SECNUM=[1.1],        NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                      ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                     [1.75,1]
                                                     [3.25,1]
                                                     [5,3]
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                      DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                      N=[3], TP=[0.59]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%-----------------|-----------------------------------------------------------|
ROUTE PIPE            PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                      PDIAM=[900](mm), PLNGTH=[162](m),
                      PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                      RDT=[1](min)
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                      DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                      N=[3], TP=[0.58]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ROUTE CHANNEL         IDout=[3], NHYD=["Overland1"], IDin=[2],
                      RDT=[1](min),
                      CHLGTH=[676](m),   CHSLOPE=[2.6](%),
                                         FPSLOPE=[2.6](%),
                      SECNUM=[1.1],        NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                      ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                     [1000,1.7]
                                                     [1001,1.4]
                                                     [1002,1.7]
                                                     [2000,2]
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                      DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
                      N=[3], TP=[0.53]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*%-----------------|-----------------------------------------------------------|
ROUTE CHANNEL         IDout=[3], NHYD=["BCreek2"], IDin=[2],
                      RDT=[1](min),
                      CHLGTH=[261](m),   CHSLOPE=[2.3](%),
                                         FPSLOPE=[2.3](%),
                      SECNUM=[1.1],        NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                      ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                     [1.75,1]
                                                     [3.25,1]
                                                     [5,3]
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*%-----------------|-----------------------------------------------------------|
ROUTE CHANNEL         IDout=[3], NHYD=["BCreek3"], IDin=[2],
                      RDT=[1](min),
                      CHLGTH=[204](m),   CHSLOPE=[3](%),
                                         FPSLOPE=[3](%),
                      SECNUM=[1.1],        NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                      ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                     [1.75,1]
                                                     [3.25,1]
                                                     [5,3]
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                      DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
                      N=[3], TP=[0.48]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                      DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                      N=[3], TP=[0.62]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
CALIB NASHYD          ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                      DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
                      N=[3], TP=[0.75]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-----------------------------------------------------------|
CALIB STANDHYD        ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                      XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[49],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                           LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-----------------------------------------------------------|
ADD HYD               IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*%-----------------|-----------------------------------------------------------|
ROUTE CHANNEL         IDout=[1], NHYD=["BCreek4"], IDin=[6],
                      RDT=[1](min),
                      CHLGTH=[647](m),   CHSLOPE=[3](%),
```

```
                                         FPSLOPE=[3](%),
                          SECNUM=[1,1],          NSEG=[3]
                          ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                          ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                        [1.75,1]
                                                        [3.25,1]
                                                        [5,3]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                          DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
                          N=[3], TP=[0.72]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                          DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
                          N=[3], TP=[0.23]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL             IDout=[2], NHYD=["Overland2"], IDin=[1],
                          RDT=[1](min),
                          CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                         FPSLOPE=[2.3](%),
                          SECNUM=[1.1],          NSEG=[3]
                          ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                          ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                        [1000,1.7]
                                                        [1001,1.4]
                                                        [1002,1.7]
                                                        [2000,2]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                          DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
                          N=[3], TP=[0.47]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1

*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL             IDout=[8], NHYD=["Overland3"], IDin=[5],
                          RDT=[1](min),
                          CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                         FPSLOPE=[4.0](%),
                          SECNUM=[1.1],          NSEG=[3]
                          ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                          ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                        [1000,1.7]
                                                        [1001,1.4]
                                                        [1002,1.7]
                                                        [2000,2]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                          DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
                          N=[3], TP=[0.45]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL             IDout=[2], NHYD=["Overland4"], IDin=[1],
                          RDT=[1](min),
                          CHLGTH=[775](m),  CHSLOPE=[2.4](%),
                                         FPSLOPE=[2.4](%),
                          SECNUM=[1.1],          NSEG=[3]
                          ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                          ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                        [1000,1.7]
                                                        [1001,1.4]
                                                        [1002,1.7]
                                                        [2000,2]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
                          DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
                          N=[3], TP=[0.44]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
                          DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
                          N=[3], TP=[0.58]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE                PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                          PDIAM=[750](mm), PLNGTH=[450](m),
                          PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                          RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                          DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
                          N=[3], TP=[0.47]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE                PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                          PDIAM=[525](mm), PLNGTH=[435](m),
                          PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                          RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD            ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                          XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                          SCS curve number CN=[79],
                          Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                               LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                          Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                               LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                          RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE                PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                          PDIAM=[750](mm), PLNGTH=[305](m),
                          PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                          RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                          DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                          N=[3], TP=[0.05]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%-----------------|-------------------------------------------------------------|
ROUTE RESERVOIR           IDout=[1],   NHYD=["SWM1"],   IDin=[3],
                          RDT=[1](min),
                              TABLE of ( OUTFLOW-STORAGE ) values
                                     (cms) - (ha-m)
                                   [  0.0 ,  0.0 ]
                                   [  0.0097    ,    0.1406  ]
                                   [  0.0352    ,    0.3212  ]
                                   [  0.0764    ,    0.5018  ]
                                   [  0.0986    ,    0.6823  ]
                                   [  0.1547    ,    0.8629  ]
                                   [  0.3283    ,    1.0435  ]
                                   [  0.5673    ,    1.2430  ]
                                   [  0.8560    ,    1.4426  ]
                                   [  1.1868    ,    1.6421  ]
                                   [  1.5548    ,    1.8417  ]
                                   [  1.9562    ,    2.0412  ]
                                   [  2.3891    ,    2.2712  ]
                                   [  2.8505    ,    2.5013  ]
                                   [  3.3385    ,    2.7313  ]
                                   [  3.8521    ,    2.9614  ]
                                   [  4.3895    ,    3.1914  ]
                                   [  5.8341    ,    3.8362  ]
                                   [  -1   ,   -1   ]  (max twenty pts)
                          IDovf=[2], NHYDovf=["Spillflow"]
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[4], NHYD=["Pond 50yr"], IDs to add=[1+2]
*%-----------------|-------------------------------------------------------------|
SAVE HYD                  ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                          HYD_FILENAME=["Pond50yr"]
                          HYD_COMMENT=["Pond50yr"]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
                          DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
                          N=[3], TP=[0.2]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                          DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                          N=[3], TP=[0.15]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                          DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                          N=[3], TP=[0.32]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD            ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                          XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                          SCS curve number CN=[79],
                          Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                               LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                          Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                               LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                          RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD            ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                          XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                          SCS curve number CN=[79],
                          Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                               LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                          Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                               LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                          RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                          DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                          N=[3], TP=[0.09]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%-----------------|-------------------------------------------------------------|
*#****************************************************************************
*#************************100 year Chicago Storm*******************************
*#****************************************************************************
*%-----------------|-------------------------------------------------------------|
READ STORM                STORM_FILENAME=["100yr.stm"]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                          DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                          N=[3], TP=[0.42]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL             IDout=[2], NHYD=["BCreek1"], IDin=[1],
                          RDT=[1](min),
                          CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                         FPSLOPE=[1.3](%),
                          SECNUM=[1.1],          NSEG=[3]
                          ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                          ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                        [1.75,1]
                                                        [3.25,1]
                                                        [5,3]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                          DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                          N=[3], TP=[0.59]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE                PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                          PDIAM=[900](mm), PLNGTH=[162](m),
                          PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                          RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                          DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                          N=[3], TP=[0.58]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL             IDout=[3], NHYD=["Overland1"], IDin=[2],
                          RDT=[1](min),
                          CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                         FPSLOPE=[2.6](%),
                          SECNUM=[1.1],          NSEG=[3]
                          ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                          ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                        [1000,1.7]
                                                        [1001,1.4]
                                                        [1002,1.7]
                                                        [2000,2]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD              ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                          DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
                          N=[3], TP=[0.53]hrs,
                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL             IDout=[3], NHYD=["BCreek2"], IDin=[2],
                          RDT=[1](min),
                          CHLGTH=[261](m),  CHSLOPE=[2.3](%),
                                         FPSLOPE=[2.3](%),
                          SECNUM=[1.1],          NSEG=[3]
                          ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                          ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                        [1.75,1]
                                                        [3.25,1]
                                                        [5,3]
*%-----------------|-------------------------------------------------------------|
ADD HYD                   IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL             IDout=[3], NHYD=["BCreek3"], IDin=[2],
                          RDT=[1](min),
                          CHLGTH=[204](m),  CHSLOPE=[3](%),
                                         FPSLOPE=[3](%),
                          SECNUM=[1.1],          NSEG=[3]
```

```
01621>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01622>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01623>                                                   [1.75,1]
01624>                                                   [3.25,1]
01625>                                                   [5,3]
01626> *%----------------|-------------------------------------------------------------|
01627> CALIB NASHYD       ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
01628>                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
01629>                    N=[3], TP=[0.48]hrs,
01630>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01631> *%----------------|-------------------------------------------------------------|
01632> CALIB NASHYD       ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
01633>                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
01634>                    N=[3], TP=[0.62]hrs,
01635>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01636> *%----------------|-------------------------------------------------------------|
01637> CALIB NASHYD       ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
01638>                    DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
01639>                    N=[3], TP=[0.75]hrs,
01640>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01641> *%----------------|-------------------------------------------------------------|
01642> CALIB STANDHYD     ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
01643>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01644>                    SCS curve number CN=[49],
01645>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01646>                                         LGP=[12.5](m), MNP=[0.24],  SCP=[0](min)
01647>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01648>                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
01649>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01650> *%----------------|-------------------------------------------------------------|
01651> ADD HYD           IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
01652> *%----------------|-------------------------------------------------------------|
01653> ROUTE CHANNEL     IDout=[1], NHYD=["BCreek4"], IDin=[6],
01654>                    RDT=[1](min),
01655>                    CHLGTH=[647](m),   CHSLOPE=[3](%),
01656>                                       FPSLOPE=[3](%),
01657>                    SECNUM=[1.1],      NSEG=[3]
01658>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01659>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01660>                                                   [1.75,1]
01661>                                                   [3.25,1]
01662>                                                   [5,3]
01663> *%----------------|-------------------------------------------------------------|
01664> CALIB NASHYD       ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.36](ha),
01665>                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
01666>                    N=[3], TP=[0.72]hrs,
01667>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01668> *%----------------|-------------------------------------------------------------|
01669> ADD HYD           IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
01670> *%----------------|-------------------------------------------------------------|
01671> CALIB NASHYD       ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
01672>                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
01673>                    N=[3], TP=[0.23]hrs,
01674>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01675> *%----------------|-------------------------------------------------------------|
01676> ROUTE CHANNEL     IDout=[2], NHYD=["Overland2"], IDin=[1],
01677>                    RDT=[1](min),
01678>                    CHLGTH=[550](m),   CHSLOPE=[2.3](%),
01679>                                       FPSLOPE=[2.3](%),
01680>                    SECNUM=[1.1],      NSEG=[3]
01681>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01682>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
01683>                                                   [1000,1.7]
01684>                                                   [1001,1.4]
01685>                                                   [1002,1.7]
01686>                                                   [2000,2]
01687> *%----------------|-------------------------------------------------------------|
01688> CALIB NASHYD       ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
01689>                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
01690>                    N=[3], TP=[0.47]hrs,
01691>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01692>
01693> *%----------------|-------------------------------------------------------------|
01694> ADD HYD           IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
01695> *%----------------|-------------------------------------------------------------|
01696> ROUTE CHANNEL     IDout=[8], NHYD=["Overland3"], IDin=[5],
01697>                    RDT=[1](min),
01698>                    CHLGTH=[500](m),   CHSLOPE=[4.0](%),
01699>                                       FPSLOPE=[4.0](%),
01700>                    SECNUM=[1.1],      NSEG=[3]
01701>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01702>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
01703>                                                   [1000,1.7]
01704>                                                   [1001,1.4]
01705>                                                   [1002,1.7]
01706>                                                   [2000,2]
01707> *%----------------|-------------------------------------------------------------|
01708> CALIB NASHYD       ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
01709>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
01710>                    N=[3], TP=[0.45]hrs,
01711>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01712> *%----------------|-------------------------------------------------------------|
01713> ROUTE CHANNEL     IDout=[2], NHYD=["Overland4"], IDin=[1],
01714>                    RDT=[1](min),
01715>                    CHLGTH=[775](m),   CHSLOPE=[2.4](%),
01716>                                       FPSLOPE=[2.4](%),
01717>                    SECNUM=[1.1],      NSEG=[3]
01718>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01719>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
01720>                                                   [1000,1.7]
01721>                                                   [1001,1.4]
01722>                                                   [1002,1.7]
01723>                                                   [2000,2]
01724> *%----------------|-------------------------------------------------------------|
01725> CALIB NASHYD       ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
01726>                    DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
01727>                    N=[3], TP=[0.44]hrs,
01728>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01729> *%----------------|-------------------------------------------------------------|
01730> CALIB NASHYD       ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
01731>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
01732>                    N=[3], TP=[0.58]hrs,
01733>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01734> *%----------------|-------------------------------------------------------------|
01735> ADD HYD           IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
01736> *%----------------|-------------------------------------------------------------|
01737> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
01738>                    PDIAM=[750](mm), PLNGTH=[450](m),
01739>                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
01740>                    RDT=[1](min)
01741> *%----------------|-------------------------------------------------------------|
01742> CALIB NASHYD       ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
01743>                    DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
01744>                    N=[3], TP=[0.47]hrs,
01745>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01746> *%----------------|-------------------------------------------------------------|
01747> ROUTE PIPE        PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
01748>                    PDIAM=[525](mm), PLNGTH=[435](m),
01749>                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
01750>                    RDT=[1](min)
01751> *%----------------|-------------------------------------------------------------|
01752> CALIB STANDHYD     ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
01753>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01754>                    SCS curve number CN=[79],
01755>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01756>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01757>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01758>                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
01759>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01760> *%----------------|-------------------------------------------------------------|
01761> ADD HYD           IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
01762> *%----------------|-------------------------------------------------------------|
01763> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
01764>                    PDIAM=[750](mm), PLNGTH=[305](m),
01765>                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
01766>                    RDT=[1](min)
01767> *%----------------|-------------------------------------------------------------|
01768> ADD HYD           IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
01769> *%----------------|-------------------------------------------------------------|
01770> CALIB NASHYD       ID=[1], NHYD=["SWMP"], DT=[1]min, AREA=[6.8](ha),
01771>                    DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
01772>                    N=[3], TP=[0.05]hrs,
01773>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01774> *%----------------|-------------------------------------------------------------|
01775> ADD HYD           IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
01776> *%----------------|-------------------------------------------------------------|
01777> ROUTE RESERVOIR   IDout=[1],   NHYD=["SWM1"],  IDin=[3],
01778>                    RDT=[1](min),
01779>                          TABLE of ( OUTFLOW-STORAGE ) values
01780>                                (cms)  -  (ha-m)
01781>                          [  0.0  ,   0.0  ]
01782>                          [  0.0097  ,   0.1406  ]
01783>                          [  0.0352  ,   0.3212  ]
01784>                          [  0.0764  ,   0.5018  ]
01785>                          [  0.0986  ,   0.6823  ]
01786>                          [  0.1547  ,   0.8629  ]
01787>                          [  0.3283  ,   1.0435  ]
01788>                          [  0.5673  ,   1.2430  ]
01789>                          [  0.8560  ,   1.4426  ]
01790>                          [  1.1868  ,   1.6421  ]
01791>                          [  1.5548  ,   1.8417  ]
01792>                          [  1.9562  ,   2.0412  ]
01793>                          [  2.3891  ,   2.2712  ]
01794>                          [  2.8505  ,   2.5011  ]
01795>                          [  3.3385  ,   2.7313  ]
01796>                          [  3.8521  ,   2.9614  ]
01797>                          [  4.3895  ,   3.1914  ]
01798>                          [  5.8341  ,   3.8362  ]
01799>                          [   -1  ,   -1  ]  (max twenty pts)
01800>                    IDovf=[2], NHYDovf=["Spillflow"]
01801> *%----------------|-------------------------------------------------------------|
01802> ADD HYD           IDsum=[4], NHYD=["Pond 100yr"], IDs to add=[1+2]
01803> *%----------------|-------------------------------------------------------------|
01804> SAVE HYD          ID=[4],   # OF PCYCLES=[1],   ICASESh=[-1]
01805>                    HYD_FILENAME=["Pond100yr"]
01806>                    HYD_COMMENT=["Pond100yr"]
01807> *%----------------|-------------------------------------------------------------|
01808> CALIB NASHYD       ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
01809>                    DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
01810>                    N=[3], TP=[0.2]hrs,
01811>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01812> *%----------------|-------------------------------------------------------------|
01813> CALIB NASHYD       ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
01814>                    DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
01815>                    N=[3], TP=[0.15]hrs,
01816>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01817> *%----------------|-------------------------------------------------------------|
01818> CALIB NASHYD       ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
01819>                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
01820>                    N=[3], TP=[0.32]hrs,
01821>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01822> *%----------------|-------------------------------------------------------------|
01823> CALIB STANDHYD     ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
01824>                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
01825>                    SCS curve number CN=[79],
01826>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01827>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01828>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01829>                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
01830>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01831> *%----------------|-------------------------------------------------------------|
01832> ADD HYD           IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
01833> *%----------------|-------------------------------------------------------------|
01834> CALIB STANDHYD     ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
01835>                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
01836>                    SCS curve number CN=[79],
01837>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01838>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01839>                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
01840>                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
01841>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01842> *%----------------|-------------------------------------------------------------|
01843> CALIB NASHYD       ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
01844>                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
01845>                    N=[3], TP=[0.09]hrs,
01846>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01847> *%----------------|-------------------------------------------------------------|
01848> ADD HYD           IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
01849> *%----------------|-------------------------------------------------------------|
01850> *%----------------|-------------------------------------------------------------|
01851> FINISH
01852>
01853>
01854>
01855>
01856>
01857>
01858>
01859>
01860>
01861>
01862>
01863>
```

```
*********************************************************************************
 SSSSS  W   W   M   M  H   H  Y   Y  M   M   OOO        999    999    =========
 S      W W W   MM MM  H   H   Y Y   MM MM  O   O      9   9  9   9
 SSSSS  W W W   M M M  HHHHH    Y    M M M  O   O  ##  9   9  9   9   Ver 4.05
     S   W W    M   M  H   H    Y    M   M  O   O       9999   9999   Sept 2011
 SSSSS   W W    M   M  H   H    Y    M   M   OOO           9      9   =========
                                                       9   9  9   9   # 3737016
       StormWater Management HYdrologic Model           999    999    =========

*********************************************************************************
*************************** SWMHYMO Ver/4.05 ***********************************
********* A single event and continuous hydrologic simulation model  *********
*********     based on the principles of HYMO and its successors     *********
*********               OTTHYMO-83 and OTTHYMO-89.                   *********
*********************************************************************************
********* Distributed by:  J.F. Sabourin and Associates Inc.           *********
*********                  Ottawa, Ontario: (613) 836-3884             *********
*********                  Gatineau, Quebec: (819) 243-6858            *********
*********                  E-Mail: swmhymo@jfsa.Com                    *********
*********************************************************************************

*********************************************************************************
+++++++++ Licensed user: C.F. Crozier & Associates Inc.                +++++++++
+++++++++                Collingwood            SERIAL#:3737016         +++++++++
*********************************************************************************

*********************************************************************************
*********            ++++++ PROGRAM ARRAY DIMENSIONS ++++++             *********
*********            Maximum value for ID numbers  :      10            *********
*********            Max. number of rainfall points: 105408             *********
*********            Max. number of flow points    : 105408             *********
*********************************************************************************

***** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) *****
*****---------------------------------------------------------------------*****
*****      ID:  Hydrograph IDentification numbers, (1-10).                 *****
*****    NHYD:  Hydrograph reference numbers, (6 digits or characters).    *****
*****    AREA:  Drainage area associated with hydrograph, (ac.) or (ha.).  *****
***** QPEAK:  Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s).      *****
***** TpeakDate_hh:mm is the date and time of the peak flow.              *****
*****    R.V.:  Runoff Volume of simulated hydrograph, (in) or (mm).       *****
*****    R.C.:  Runoff Coefficient of simulated hydrograph, (ratio).      *****
*****       *:  see WARNING or NOTE message printed at end of run.        *****
*****      **:  see  ERROR  message printed at end of run.                *****
*********************************************************************************
*********************************************************************************

:::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

*********************************************************************************

**********************      S U M M A R Y    O U T P U T     ********************
*********************************************************************************
*        DATE: 2018-08-09      TIME: 16:34:37      RUN COUNTER: 000333          *
*********************************************************************************
* Input   filename: C:\AUGUST\PRE\CHI\PreCHI.dat                                *
* Output  filename: C:\AUGUST\PRE\CHI\PreCHI.out                                *
* Summary filename: C:\AUGUST\PRE\CHI\PreCHI.sum                                *
* User comments:                                                                *
* 1:____________________________________________________________________________*
* 2:____________________________________________________________________________*
* 3:____________________________________________________________________________*
*********************************************************************************


#********************************************************************************
# Project Name: [Lora Bay Phase 4]                     Project Number: [469-3061]
# Date        : August 9, 2018
# Modeller    : [B. Ellsworth]
# Company     : C.F. Crozier & Associates Inc.
# License #   : 3737016
#********************************************************************************
# Filename    :  Continuous Model
# Continuous Model
#********************************************************************************
#********************************************************************************
#********************************************************************************
RUN:COMMAND#
001:0001-----------------------------------------------------------------------
    START
     [TZERO =     .00 hrs on        0]
     [METOUT=    2    (1=imperial, 2=metric output)]
     [NSTORM=    0 ]
     [NRUN  =    1 ]
#********************************************************************************
#*************************2 year Chicago Storm***********************************
#********************************************************************************
001:0002-----------------------------------------------------------------------
    READ STORM
      Filename = 2yr.stm
      Comment  =
     [SDT=60.00:SDUR=    6.00:PTOT=  37.90]
001:0003--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:302          28.20     .363 No_date     3:14     6.87
     [CN= 74.2: N= 3.00]
     [Tp=  .42:DT= 1.00]
001:0004--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:302          28.20     .363 No_date     3:14     6.87
     [RDT= 1.00] out<- 02:BCreek1      28.20     .336 No_date     3:22     6.87
     [L/S/n=  422./1.300/.070]
     {Vmax=   .670:Dmax=   .302}
001:0005--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         03:201C         21.60     .158 No_date     3:26     4.97
     [CN= 65.7: N= 3.00]
     [Tp=  .59:DT= 1.00]
001:0006--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              02:BCreek1      28.20     .336 No_date     3:22     6.87
                       + 03:201C         21.60     .158 No_date     3:26     4.97
     [DT= 1.00]   SUM=   04:Add1         49.80     .493 No_date     3:23     6.05
001:0007--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 04:Add1         49.80     .493 No_date     3:23     6.05
     [RDT= 1.00] out<- 01:Pipe1        49.80     .492 No_date     3:24     6.05
     [L/S/n=  162./2.160/.013]
     {Vmax=  3.177:Dmax=   .261}
     {Din=   .90:Dused=   .90}
001:0008--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         02:301          44.80     .460 No_date     3:25     6.82
     [CN= 74.0: N= 3.00]
     [Tp=  .58:DT= 1.00]
001:0009--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:301          44.80     .460 No_date     3:25     6.82
     [RDT= 1.00] out<- 03:Overland1    44.80     .368 No_date     4:01     6.82
     [L/S/n=  676./2.600/.070]
     {Vmax=   .331:Dmax=   .314}
001:0010--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         04:201K          9.77     .093 No_date     3:22     5.95
     [CN= 71.0: N= 3.00]
     [Tp=  .53:DT= 1.00]
001:0011--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              03:Overland1    44.80     .368 No_date     4:01     6.82
                       + 04:201K          9.77     .093 No_date     3:22     5.95
     [DT= 1.00]   SUM=   02:Add2         54.57     .429 No_date     3:55     6.67
001:0012--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:Add2         54.57     .429 No_date     3:55     6.67
     [RDT= 1.00] out<- 03:BCreek2      54.57     .428 No_date     3:57     6.67
     [L/S/n=  261./2.300/.070]
     {Vmax=   .844:Dmax=   .280}
001:0013--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:Pipe1        49.80     .492 No_date     3:24     6.05
                       + 03:BCreek2      54.57     .428 No_date     3:57     6.67
     [DT= 1.00]   SUM=   02:Add3        104.37     .846 No_date     3:32     6.37
001:0014--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:Add3        104.37     .846 No_date     3:32     6.37
     [RDT= 1.00] out<- 03:BCreek3     104.37     .844 No_date     3:34     6.37
     [L/S/n=  204./3.000/.070]
     {Vmax=  1.172:Dmax=   .385}
001:0015--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:201D          4.08     .020 No_date     3:17     2.92
     [CN= 46.2: N= 3.00]
     [Tp=  .48:DT= 1.00]
001:0016--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         02:201E          8.13     .082 No_date     3:25     6.93
     [CN= 67.6: N= 3.00]
     [Tp=  .62:DT= 1.00]
001:0017--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         04:201F          9.08     .148 No_date     3:32    12.43
     [CN= 81.9: N= 3.00]
     [Tp=  .75:DT= 1.00]
001:0018--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD       05:202B         16.01     .485 No_date     3:01    15.74
     [XIMP=.35:TIMP=.50]
     [LOSS= 2 :CN= 49.0]
     [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
     [Impervious  area: IAimp= 2.00:SLPI=  .50:LGI= 327.:MNI=.013:SCI=    .0]
001:0019--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:201D          4.08     .020 No_date     3:17     2.92
                       + 02:201E          8.13     .082 No_date     3:25     6.93
                       + 03:BCreek3     104.37     .844 No_date     3:34     6.37
                       + 04:201F          9.08     .148 No_date     3:32    12.43
                       + 05:202B         16.01     .485 No_date     3:01    15.74
     [DT= 1.00]   SUM=   06:Add4        141.67    1.257 No_date     3:24     7.75
001:0020--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 06:Add4        141.67    1.257 No_date     3:24     7.75
     [RDT= 1.00] out<- 01:BCreek4     141.67    1.239 No_date     3:31     7.75
     [L/S/n=  647./3.000/.070]
     {Vmax=  1.338:Dmax=   .482}
001:0021--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         02:201G          4.38     .060 No_date     3:31    10.25
     [CN= 78.4: N= 3.00]
     [Tp=  .72:DT= 1.00]
001:0022--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:BCreek4     141.67    1.239 No_date     3:31     7.75
                       + 02:201G          4.38     .060 No_date     3:31    10.25
     [DT= 1.00]   SUM=   03:Add5        146.05    1.299 No_date     3:31     7.83
001:0023--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:303          20.60     .353 No_date     3:05     6.65
     [CN= 73.6: N= 3.00]
     [Tp=  .23:DT= 1.00]
001:0024--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:303          20.60     .353 No_date     3:05     6.65
     [RDT= 1.00] out<- 02:Overland2    20.60     .267 No_date     3:22     6.65
     [L/S/n=  550./2.300/.070]
     {Vmax=   .366:Dmax=   .310}
001:0025--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         04:201A         23.20     .275 No_date     3:17     6.82
     [CN= 73.9: N= 3.00]
     [Tp=  .47:DT= 1.00]
001:0026--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              02:Overland2    20.60     .267 No_date     3:22     6.65
                       + 04:201A         23.20     .275 No_date     3:17     6.82
     [DT= 1.00]   SUM=   05:Add6         43.80     .539 No_date     3:20     6.74
001:0027--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 05:Add6         43.80     .539 No_date     3:20     6.74
     [RDT= 1.00] out<- 08:Overland3    43.80     .457 No_date     3:40     6.74
     [L/S/n=  500./4.000/.070]
     {Vmax=   .429:Dmax=   .313}
001:0028--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:201J         16.40     .218 No_date     3:16     7.37
     [CN= 74.8: N= 3.00]
     [Tp=  .45:DT= 1.00]
001:0029--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:201J         16.40     .218 No_date     3:16     7.37
     [RDT= 1.00] out<- 02:Overland4    16.40     .183 No_date     3:33     7.37
     [L/S/n=  775./2.400/.070]
     {Vmax=   .540:Dmax=   .302}
001:0030--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         04:201B         14.30     .196 No_date     3:14     7.47
     [CN= 73.0: N= 3.00]
     [Tp=  .44:DT= 1.00]
001:0031--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         06:201L         27.60     .308 No_date     3:24     7.37
     [CN= 74.8: N= 3.00]
     [Tp=  .58:DT= 1.00]
001:0032--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              02:Overland4    16.40     .183 No_date     3:33     7.37
                       + 04:201B         14.30     .196 No_date     3:14     7.47
                       + 06:201L         27.60     .308 No_date     3:24     7.37
                       + 08:Overland3    43.80     .457 No_date     3:40     6.74
     [DT= 1.00]   SUM=   07:Add7        102.10    1.086 No_date     3:31     7.11
001:0033--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 07:Add7        102.10    1.086 No_date     3:31     7.11
     [RDT= 1.00] out<- 01:Pipe2       102.10    1.084 No_date     3:33     7.11
     [L/S/n=  450./1.500/.013]
     {Vmax=  3.426:Dmax=   .506}
     {Din=   .75:Dused=   .75}
001:0034--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         02:201H          9.17     .044 No_date     3:17     2.77
     [CN= 43.9: N= 3.00]
     [Tp=  .47:DT= 1.00]
001:0035--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 02:201H          9.17     .044 No_date     3:17     2.77
     [RDT= 1.00] out<- 04:Pipe3         9.17     .043 No_date     3:21     2.77
     [L/S/n=  435./1.300/.013]
     {Vmax=  1.387:Dmax=   .105}
     {Din=   .53:Dused=   .53}
001:0036--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD       05:202C         12.60     .546 No_date     3:01    21.33
     [XIMP=.35:TIMP=.50]
     [LOSS= 2 :CN= 79.0]
     [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
     [Impervious  area: IAimp= 2.00:SLPI=  .50:LGI= 290.:MNI=.013:SCI=    .0]
001:0037--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:Pipe2       102.10    1.084 No_date     3:33     7.11
                       + 04:Pipe3         9.17     .043 No_date     3:21     2.77
                       + 05:202C         12.60     .546 No_date     3:01    21.33
     [DT= 1.00]   SUM=   06:Add8        123.87    1.331 No_date     3:14     8.24
001:0038--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 06:Add8        123.87    1.331 No_date     3:14     8.24
     [RDT= 1.00] out<- 01:Pipe4       123.87    1.330 No_date     3:15     8.24
     [L/S/n=  305./5.000/.013]
     {Vmax= 5.728:Dmax=   .390}
     {Din=   .75:Dused=   .75}
001:0039--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:Pipe4       123.87    1.330 No_date     3:15     8.24
                       + 03:Add5        146.05    1.299 No_date     3:31     7.83
     [DT= 1.00]   SUM=   02:Add9        269.92    2.609 No_date     3:27     8.01
001:0040--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:SWMF          6.80     .377 No_date     3:00    21.05
     [CN= 91.7: N= 3.00]
```

```
       [Tp=  .05:DT= 1.00]
 001:0041---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SWMF            6.80     .377 No_date     3:00   21.05
                       + 02:Add9          269.92    2.609 No_date     3:27    8.01
       [DT= 1.00]  SUM=  03:Add10         276.72    2.666 No_date     3:27    8.34
 001:0042---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE RESERVOIR -> 03:Add10          276.72    2.666 No_date     3:27    8.34
       [RDT= 1.00] out<- 01:SWM1          276.72     .923 No_date     5:07    8.33
             overflow <= 02:Spillflow        .00     .000 No_date     0:00     .00
     {MxStoUsed=.1483E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
 001:0043---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SWM1          276.72     .923 No_date     5:07    8.33
                       + 02:Spillflow        .00     .000 No_date     0:00     .00
       [DT= 1.00]  SUM=  04:Pond 2yr      276.72     .923 No_date     5:07    8.33
 001:0044---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     SAVE HYD            04:Pond 2yr      276.72     .923 No_date     5:07    8.33
      fname :C:\AUGUST\PRE\CHI\Pond2yr.001
      remark:Pond2yr
 001:0045---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:CottExt1        4.29     .123 No_date     3:03   11.06
       [CN= 80.8: N= 3.00]
       [Tp=  .20:DT= 1.00]
 001:0046---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:CottExt2        1.65     .040 No_date     3:02    8.48
       [CN= 76.2: N= 3.00]
       [Tp=  .15:DT= 1.00]
 001:0047---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        03:CottExt5         .38     .007 No_date     3:08    8.12
       [CN= 76.0: N= 3.00]
       [Tp=  .32:DT= 1.00]
 001:0048---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:CottB           2.49     .123 No_date     3:00   23.53
       [XIMP=.43:TIMP=.59]
       [LOSS= 2 :CN= 79.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
 001:0049---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:CottExt1        4.29     .123 No_date     3:03   11.06
                       + 02:CottExt2        1.65     .040 No_date     3:02    8.48
                       + 03:CottExt5         .38     .007 No_date     3:08    8.12
                       + 04:Pond 2yr      276.72     .923 No_date     5:07    8.33
                       + 05:CottB           2.49     .123 No_date     3:00   23.53
       [DT= 1.00]  SUM=  06:SWM1 Outle    285.53     .950 No_date     5:04    8.51
 001:0050---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      02:CottA           3.26     .156 No_date     3:00   22.76
       [XIMP=.40:TIMP=.56]
       [LOSS= 2 :CN= 79.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
 001:0051---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        03:CottExt6         .42     .011 No_date     3:00    8.12
       [CN= 76.0: N= 3.00]
       [Tp=  .09:DT= 1.00]
 001:0052---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:CottA           3.26     .156 No_date     3:00   22.76
                       + 03:CottExt6         .42     .011 No_date     3:00    8.12
                       + 06:SWM1 Outle    285.53     .950 No_date     5:04    8.51
       [DT= 1.00]  SUM=  04:Sunset Out    289.21     .964 No_date     5:03    8.67
#*******************************************************************************
#*************************5 year Chicago Storm***********************************
#*******************************************************************************
 001:0053-----------------------------------------------------------------------
     READ STORM
      Filename = 5yr.stm
      Comment  =
      [SDT=60.00:SDUR=  6.00:PTOT=  52.70]
 001:0054---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:302            28.20     .737 No_date     3:13   14.14
       [CN= 74.2: N= 3.00]
       [Tp=  .42:DT= 1.00]
 001:0055---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:302            28.20     .737 No_date     3:13   14.14
       [RDT= 1.00] out<- 02:BCreek1       28.20     .703 No_date     3:19   14.14
       [L/S/n=  422./1.300/.070]
       {Vmax=  .850:Dmax=  .451}
 001:0056---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        03:201C           21.60     .334 No_date     3:24   10.57
       [CN= 65.7: N= 3.00]
       [Tp=  .59:DT= 1.00]
 001:0057---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:BCreek1        28.20     .703 No_date     3:19   14.14
                       + 03:201C           21.60     .334 No_date     3:24   10.57
       [DT= 1.00]  SUM=  04:Add1           49.80    1.034 No_date     3:20   12.59
 001:0058---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 04:Add1           49.80    1.034 No_date     3:20   12.59
       [RDT= 1.00] out<- 01:Pipe1         49.80    1.034 No_date     3:21   12.59
       [L/S/n=  162./2.160/.013]
       {Vmax= 3.916:Dmax=  .389}
       {Din=  .90:Dused=  .90}
 001:0059---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:301            44.80     .945 No_date     3:22   14.05
       [CN= 74.0: N= 3.00]
       [Tp=  .58:DT= 1.00]
 001:0060---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:301            44.80     .945 No_date     3:22   14.05
       [RDT= 1.00] out<- 03:Overland1     44.80     .660 No_date     4:16   14.05
       [L/S/n=  676./2.600/.070]
       {Vmax=  .204:Dmax=  .335}
 001:0061---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201K            9.77     .194 No_date     3:20   12.51
       [CN= 71.0: N= 3.00]
       [Tp=  .53:DT= 1.00]
 001:0062---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             03:Overland1      44.80     .660 No_date     4:16   14.05
                       + 04:201K            9.77     .194 No_date     3:20   12.51
       [DT= 1.00]  SUM=  02:Add2           54.57     .761 No_date     4:04   13.77
 001:0063---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:Add2           54.57     .761 No_date     4:04   13.77
       [RDT= 1.00] out<- 03:BCreek2       54.57     .759 No_date     4:10   13.77
       [L/S/n=  261./2.300/.070]
       {Vmax= 1.037:Dmax=  .391}
 001:0064---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe1          49.80    1.034 No_date     3:21   12.59
                       + 03:BCreek2        54.57     .759 No_date     4:10   13.77
       [DT= 1.00]  SUM=  02:Add3          104.37    1.639 No_date     3:27   13.21
 001:0065---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:Add3          104.37    1.639 No_date     3:27   13.21
       [RDT= 1.00] out<- 03:BCreek3      104.37    1.635 No_date     3:28   13.21
       [L/S/n=  204./3.000/.070]
       {Vmax= 1.459:Dmax=  .559}
 001:0066---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:201D            4.08     .041 No_date     3:16    6.11
       [CN= 46.2: N= 3.00]
       [Tp=  .48:DT= 1.00]
 001:0067---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201E            8.13     .156 No_date     3:23   13.34
       [CN= 67.6: N= 3.00]
       [Tp=  .62:DT= 1.00]
 001:0068---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201F            9.08     .261 No_date     3:30   22.23
       [CN= 81.9: N= 3.00]
       [Tp=  .75:DT= 1.00]
 001:0069---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:202B           16.01     .728 No_date     3:01   23.90
       [XIMP=.35:TIMP=.50]
       [LOSS= 2 :CN= 49.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
 001:0070---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:201D            4.08     .041 No_date     3:16    6.11
                       + 02:201E            8.13     .156 No_date     3:23   13.34
                       + 03:BCreek3       104.37    1.635 No_date     3:28   13.21
                       + 04:201F            9.08     .261 No_date     3:30   22.23
                       + 05:202B           16.01     .728 No_date     3:01   23.90
       [DT= 1.00]  SUM=  06:Add4          141.67    2.356 No_date     3:21   14.80
 001:0071---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 06:Add4          141.67    2.356 No_date     3:21   14.80
       [RDT= 1.00] out<- 01:BCreek4      141.67    2.335 No_date     3:26   14.80
       [L/S/n=  647./3.000/.070]
       {Vmax= 1.630:Dmax=  .684}
 001:0072---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201G            4.38     .110 No_date     3:29   19.01
       [CN= 78.4: N= 3.00]
       [Tp=  .72:DT= 1.00]
 001:0073---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:BCreek4       141.67    2.335 No_date     3:26   14.80
                       + 02:201G            4.38     .110 No_date     3:29   19.01
       [DT= 1.00]  SUM=  03:Add5          146.05    2.444 No_date     3:27   14.92
 001:0074---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:303            20.60     .692 No_date     3:04   13.77
       [CN= 73.6: N= 3.00]
       [Tp=  .23:DT= 1.00]
 001:0075---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:303            20.60     .692 No_date     3:04   13.77
       [RDT= 1.00] out<- 02:Overland2     20.60     .472 No_date     3:26   13.77
       [L/S/n=  550./2.300/.070]
       {Vmax=  .209:Dmax=  .329}
 001:0076---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201A           23.20     .561 No_date     3:16   14.03
       [CN= 73.9: N= 3.00]
       [Tp=  .47:DT= 1.00]
 001:0077---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:Overland2      20.60     .472 No_date     3:26   13.77
                       + 04:201A           23.20     .561 No_date     3:16   14.03
       [DT= 1.00]  SUM=  05:Add6           43.80    1.007 No_date     3:22   13.90
 001:0078---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 05:Add6           43.80    1.007 No_date     3:22   13.90
       [RDT= 1.00] out<- 08:Overland3     43.80     .809 No_date     3:53   13.90
       [L/S/n=  500./4.000/.070]
       {Vmax=  .253:Dmax=  .333}
 001:0079---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:201J           16.40     .433 No_date     3:14   14.87
       [CN= 74.8: N= 3.00]
       [Tp=  .45:DT= 1.00]
 001:0080---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:201J           16.40     .433 No_date     3:14   14.87
       [RDT= 1.00] out<- 02:Overland4     16.40     .323 No_date     3:45   14.87
       [L/S/n=  775./2.400/.070]
       {Vmax=  .323:Dmax=  .314}
 001:0081---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201B           14.30     .378 No_date     3:13   14.73
       [CN= 73.0: N= 3.00]
       [Tp=  .44:DT= 1.00]
 001:0082---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        06:201L           27.60     .618 No_date     3:22   14.86
       [CN= 74.8: N= 3.00]
       [Tp=  .58:DT= 1.00]
 001:0083---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:Overland4      16.40     .323 No_date     3:45   14.87
                       + 04:201B           14.30     .378 No_date     3:13   14.73
                       + 06:201L           27.60     .618 No_date     3:22   14.86
                       + 08:Overland3      43.80     .809 No_date     3:53   13.90
       [DT= 1.00]  SUM=  07:Add7          102.10    1.902 No_date     3:33   14.43
 001:0084---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 07:Add7          102.10    1.902 No_date     3:33   14.43
 *     [RDT= 1.00] out<- 01:Pipe2        102.10    1.899 No_date     3:35   14.43
       [L/S/n=  450./1.500/.013]
       {Vmax= 3.822:Dmax=  .697}
       {Din=  .75:Dused=  .85}
 001:0085---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201H            9.17     .088 No_date     3:16    5.76
       [CN= 43.9: N= 3.00]
       [Tp=  .47:DT= 1.00]
 001:0086---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 02:201H            9.17     .088 No_date     3:16    5.76
       [RDT= 1.00] out<- 04:Pipe3          9.17     .087 No_date     3:19    5.76
       [L/S/n=  435./1.300/.013]
       {Vmax= 1.708:Dmax=  .150}
       {Din=  .53:Dused=  .53}
 001:0087---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:202C           12.60     .844 No_date     3:01   33.14
       [XIMP=.35:TIMP=.50]
       [LOSS= 2 :CN= 79.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
 001:0088---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe2         102.10    1.899 No_date     3:35   14.43
                       + 04:Pipe3           9.17     .087 No_date     3:19    5.76
                       + 05:202C           12.60     .844 No_date     3:01   33.14
       [DT= 1.00]  SUM=  06:Add8          123.87    2.300 No_date     3:09   15.69
 001:0089---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 06:Add8          123.87    2.300 No_date     3:09   15.69
       [RDT= 1.00] out<- 01:Pipe4        123.87    2.299 No_date     3:10   15.69
       [L/S/n=  305./5.000/.013]
       {Vmax= 6.395:Dmax=  .569}
       {Din=  .75:Dused=  .75}
 001:0090---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe4         123.87    2.299 No_date     3:10   15.69
                       + 03:Add5          146.05    2.444 No_date     3:27   14.92
       [DT= 1.00]  SUM=  02:Add9          269.92    4.692 No_date     3:24   15.28
 001:0091---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:SWMF            6.80     .558 No_date     3:00   33.99
       [CN= 91.7: N= 3.00]
       [Tp=  .05:DT= 1.00]
 001:0092---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SWMF            6.80     .558 No_date     3:00   33.99
                       + 02:Add9          269.92    4.692 No_date     3:24   15.28
       [DT= 1.00]  SUM=  03:Add10         276.72    4.779 No_date     3:24   15.74
 001:0093---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE RESERVOIR -> 03:Add10          276.72    4.779 No_date     3:24   15.74
       [RDT= 1.00] out<- 01:SWM1          276.72    2.419 No_date     4:47   15.74
             overflow <= 02:Spillflow        .00     .000 No_date     0:00     .00
     {MxStoUsed=.2286E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
 001:0094---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SWM1          276.72    2.419 No_date     4:47   15.74
                       + 02:Spillflow        .00     .000 No_date     0:00     .00
       [DT= 1.00]  SUM=  04:Pond 5yr      276.72    2.419 No_date     4:47   15.74
 001:0095---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     SAVE HYD            04:Pond 5yr      276.72    2.419 No_date     4:47   15.74
      fname :C:\AUGUST\PRE\CHI\Pond5yr.001
      remark:Pond5yr
 001:0096---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:CottExt1        4.29     .214 No_date     3:02   20.41
       [CN= 80.8: N= 3.00]
       [Tp=  .20:DT= 1.00]
 001:0097---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:CottExt2        1.65     .072 No_date     3:01   16.48
       [CN= 76.2: N= 3.00]
       [Tp=  .15:DT= 1.00]
 001:0098---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
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00541>       CALIB NASHYD       03:CottExt5          .38      .013 No_date    3:07   15.99
00542>         [CN= 76.0: N= 3.00]
00543>         [Tp=  .32:DT= 1.00]
00544>  001:0099---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00545>       CALIB STANDHYD     05:CottB             2.49      .185 No_date    3:00   35.87
00546>         [XIMP=.43:TIMP=.59]
00547>         [LOSS= 2 :CN= 79.0]
00548>         [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00549>         [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
00550>  001:0100---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00551>       ADD HYD            01:CottExt1          4.29      .214 No_date    3:02   20.41
00552>                        + 02:CottExt2          1.65      .072 No_date    3:01   16.48
00553>                        + 03:CottExt5           .38      .013 No_date    3:07   15.99
00554>                        + 04:Pond 5yr       276.72     2.419 No_date    4:47   15.74
00555>                        + 05:CottB            2.49      .185 No_date    3:00   35.87
00556>         (DT= 1.00]  SUM=  06:SWM1 Outle    285.53     2.469 No_date    4:47   15.99
00557>  001:0101---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00558>       CALIB STANDHYD     02:CottA             3.26      .236 No_date    3:00   34.92
00559>         [XIMP=.40:TIMP=.56]
00560>         [LOSS= 2 :CN= 79.0]
00561>         [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00562>         [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
00563>  001:0102---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00564>       CALIB NASHYD       03:CottExt6           .42      .019 No_date    3:00   16.00
00565>         [CN= 76.0: N= 3.00]
00566>         [Tp=  .09:DT= 1.00]
00567>  001:0103---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00568>       ADD HYD            02:CottA             3.26      .236 No_date    3:00   34.92
00569>                        + 03:CottExt6           .42      .019 No_date    3:00   16.00
00570>                        + 06:SWM1 Outle    285.53     2.469 No_date    4:47   15.99
00571>         [DT= 1.00]  SUM=  04:Sunset Out    289.21     2.493 No_date    4:47   16.20
00572> #*************************************************************************
00573> #*************************10 year Chicago Storm****************************
00574> #*************************************************************************
00575>  001:0104---------------------------------------------------------------------
00576>       READ STORM
00577>         Filename = 10yr.stm
00578>         Comment  =
00579>         [BDT=60.00:SDUR=   6.00:PTOT=  66.00]
00580>  001:0105---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00581>       CALIB NASHYD       01:302              28.20     1.160 No_date    3:12   21.99
00582>         [CN= 74.2: N= 3.00]
00583>         [Tp=  .42:DT= 1.00]
00584>  001:0106---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00585>       ROUTE CHANNEL   -> 01:302            28.20     1.160 No_date    3:12   21.99
00586>         {RDT= 1.00] out<- 02:BCreek1       28.20     1.119 No_date    3:17   21.99
00587>         [L/S/n=  422./1.300/.070]
00588>         {Vmax=  .981:Dmax=  .582]
00589>  001:0107---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00590>       CALIB NASHYD       03:201C             21.60      .542 No_date    3:22   16.82
00591>         [CN= 65.7: N= 3.00]
00592>         [Tp=  .59:DT= 1.00]
00593>  001:0108---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00594>       ADD HYD            02:BCreek1         28.20     1.119 No_date    3:17   21.99
00595>                        + 03:201C            21.60      .542 No_date    3:22   16.82
00596>         [DT= 1.00]  SUM=  04:Add1           49.80     1.655 No_date    3:18   19.75
00597>  001:0109---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00598>       ROUTE PIPE      -> 04:Add1           49.80     1.655 No_date    3:18   19.75
00599>         [RDT= 1.00] out<- 01:Pipe1         49.80     1.655 No_date    3:19   19.75
00600>         [L/S/n=  162./2.160/.013]
00601>         {Vmax= 4.408:Dmax=  .514}
00602>         [Din=  .90:Dused=  .90]
00603>  001:0110---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00604>       CALIB NASHYD       02:301              44.80     1.499 No_date    3:21   21.85
00605>         [CN= 74.0: N= 3.00]
00606>         [Tp=  .58:DT= 1.00]
00607>  001:0111---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00608>       ROUTE CHANNEL   -> 02:301            44.80     1.499 No_date    3:21   21.85
00609>         [RDT= 1.00] out<- 03:Overland1     44.80      .934 No_date    4:27   21.85
00610>         [L/S/n=  676./2.600/.070]
00611>         {Vmax=  .212:Dmax=  .341}
00612>  001:0112---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00613>       CALIB NASHYD       04:201K              9.77      .311 No_date    3:18   19.69
00614>         [CN= 71.0: N= 3.00]
00615>         [Tp=  .53:DT= 1.00]
00616>  001:0113---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00617>       ADD HYD            03:Overland1       44.80      .934 No_date    4:27   21.85
00618>                        + 04:201K            9.77      .311 No_date    3:18   19.69
00619>         [DT= 1.00]  SUM=  02:Add2           54.57     1.094 No_date    3:51   21.47
00620>  001:0114---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00621>       ROUTE CHANNEL   -> 02:Add2           54.57     1.094 No_date    3:51   21.47
00622>         [RDT= 1.00] out<- 03:BCreek2       54.57     1.093 No_date    3:54   21.47
00623>         [L/S/n=  261./2.300/.070]
00624>         {Vmax= 1.170:Dmax=  .480}
00625>  001:0115---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00626>       ADD HYD            01:Pipe1           49.80     1.655 No_date    3:19   19.75
00627>                        * 03:BCreek2         54.57     1.093 No_date    3:54   21.47
00628>         [DT= 1.00]  SUM=  02:Add3          104.37     2.582 No_date    3:24   20.65
00629>  001:0116---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00630>       ROUTE CHANNEL   -> 02:Add3          104.37     2.582 No_date    3:24   20.65
00631>         [RDT= 1.00] out<- 03:BCreek3       104.37     2.580 No_date    3:26   20.65
00632>         [L/S/n=  204./3.000/.070]
00633>         {Vmax= 1.678:Dmax=  .720}
00634>  001:0117---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00635>       CALIB NASHYD       01:201D              4.08      .067 No_date    3:16    9.80
00636>         [CN= 46.2: N= 3.00]
00637>         [Tp=  .48:DT= 1.00]
00638>  001:0118---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00639>       CALIB NASHYD       02:201E              8.13      .240 No_date    3:23   20.26
00640>         [CN= 67.6: N= 3.00]
00641>         [Tp=  .62:DT= 1.00]
00642>  001:0119---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00643>       CALIB NASHYD       04:201F              9.08      .382 No_date    3:29   32.11
00644>         [CN= 81.9: N= 3.00]
00645>         [Tp=  .75:DT= 1.00]
00646>  001:0120---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00647>       CALIB STANDHYD     05:202B             16.01      .989 No_date    3:01   31.86
00648>         [XIMP=.35:TIMP=.50]
00649>         [LOSS= 2 :CN= 49.0]
00650>         [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00651>         [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
00652>  001:0121---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00653>       ADD HYD            03:201D              4.08      .067 No_date    3:16    9.80
00654>                        + 02:201E              8.13      .240 No_date    3:23   20.26
00655>                        + 03:BCreek3       104.37     2.580 No_date    3:26   20.65
00656>                        + 04:201F              9.08      .382 No_date    3:29   32.11
00657>                        + 05:202B             16.01      .989 No_date    3:01   31.86
00658>         [DT= 1.00]  SUM=  06:Add4          141.67     3.635 No_date    3:19   22.31
00659>  001:0122---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00660>       ROUTE CHANNEL   -> 06:Add4          141.67     3.635 No_date    3:19   22.31
00661>         [RDT= 1.00] out<- 01:BCreek4       141.67     3.603 No_date    3:24   22.31
00662>         [L/S/n=  647./3.000/.070]
00663>         {Vmax= 1.852:Dmax=  .866}
00664>  001:0123---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00665>       CALIB NASHYD       02:201G              4.38      .164 No_date    3:28   28.05
00666>         [CN= 78.4: N= 3.00]
00667>         [Tp=  .72:DT= 1.00]
00668>  001:0124---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00669>       ADD HYD            01:BCreek4         141.67     3.603 No_date    3:24   22.31
00670>                        * 02:201G              4.38      .164 No_date    3:28   28.05
00671>         [DT= 1.00]  SUM=  03:Add5          146.05     3.767 No_date    3:24   22.49
00672>  001:0125---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00673>       CALIB NASHYD       01:303              20.60     1.069 No_date    3:04   21.48
00674>         [CN= 73.6: N= 3.00]
00675>         [Tp=  .23:DT= 1.00]
00676>  001:0126---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00677>       ROUTE CHANNEL   -> 01:303            20.60     1.069 No_date    3:04   21.48
00678>         [RDT= 1.00] out<- 02:Overland2     20.60      .659 No_date    3:31   21.48
00679>         [L/S/n=  550./2.300/.070]
00680>         {Vmax=  .194:Dmax=  .337}
00681>  001:0127---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00682>       CALIB NASHYD       04:201A              23.20      .886 No_date    3:15   21.81
00683>         [CN= 73.9: N= 3.00]
00684>         [Tp=  .47:DT= 1.00]
00685>  001:0128---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00686>       ADD HYD            02:Overland2       20.60      .659 No_date    3:31   21.48
00687>                        * 04:201A            23.20      .886 No_date    3:15   21.81
00688>         [DT= 1.00]  SUM=  05:Add6           43.80     1.477 No_date    3:22   21.66
00689>  001:0129---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00690>       ROUTE CHANNEL   -> 05:Add6           43.80     1.477 No_date    3:22   21.66
00691>         [RDT= 1.00] out<- 08:Overland3     43.80     1.103 No_date    4:03   21.66
00692>         [L/S/n=  500./4.000/.070]
00693>         [Vmax=  .257:Dmax=  .337]
00694>  001:0130---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00695>       CALIB NASHYD       01:201J             16.40      .676 No_date    3:13   22.90
00696>         [CN= 74.8: N= 3.00]
00697>         [Tp=  .45:DT= 1.00]
00698>  001:0131---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00699>       ROUTE CHANNEL   -> 01:201J           16.40      .676 No_date    3:13   22.90
00700>         [RDT= 1.00] out<- 02:Overland4     16.40      .463 No_date    3:50   22.90
00701>         [L/S/n=  775./2.400/.070]
00702>         {Vmax=  .222:Dmax=  .327}
00703>  001:0132---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00704>       CALIB NASHYD       04:201B             14.30      .584 No_date    3:12   22.50
00705>         [CN= 73.0: N= 3.00]
00706>         [Tp=  .44:DT= 1.00]
00707>  001:0133---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00708>       CALIB NASHYD       06:201L             27.60      .970 No_date    3:21   22.89
00709>         [CN= 74.8: N= 3.00]
00710>         [Tp=  .58:DT= 1.00]
00711>  001:0134---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00712>       ADD HYD            02:Overland4       16.40      .463 No_date    3:50   22.90
00713>                        + 04:201B            14.30      .584 No_date    3:12   22.50
00714>                        + 06:201L            27.60      .970 No_date    3:21   22.89
00715>                        + 08:Overland3       43.80     1.103 No_date    4:03   21.66
00716>         [DT= 1.00]  SUM=  07:Add7          102.10     2.791 No_date    3:30   22.31
00717>  001:0135---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00718>       ROUTE PIPE      -> 07:Add7          102.10     2.791 No_date    3:30   22.31
00719>  *    {RDT= 1.00] out<- 01:Pipe2         102.10     2.789 No_date    3:31   22.31
00720>         [L/S/n=  450./1.500/.013]
00721>         {Vmax= 4.207:Dmax=  .805}
00722>         [Din=  .75:Dused=  .98}
00723>  001:0136---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00724>       CALIB NASHYD       02:201H              9.17      .143 No_date    3:15    9.22
00725>         [CN= 43.9: N= 3.00]
00726>         [Tp=  .47:DT= 1.00]
00727>  001:0137---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00728>       ROUTE PIPE      -> 02:201H           9.17      .143 No_date    3:15    9.22
00729>         [RDT= 1.00] out<- 04:Pipe3         9.17      .142 No_date    3:18    9.22
00730>         [L/S/n=  435./1.300/.013]
00731>         {Vmax= 1.965:Dmax=  .194}
00732>         {Din=  .53:Dused=  .53}
00733>  001:0138---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00734>       CALIB STANDHYD     05:202C             12.60     1.150 No_date    3:00   44.41
00735>         [XIMP=.35:TIMP=.50]
00736>         [LOSS= 2 :CN= 79.0]
00737>         [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00738>         [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
00739>  001:0139---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00740>       ADD HYD            01:Pipe2          102.10     2.789 No_date    3:31   22.31
00741>                        + 04:Pipe3           9.17      .142 No_date    3:18    9.22
00742>                        + 05:202C           12.60     1.150 No_date    3:00   44.41
00743>         [DT= 1.00]  SUM=  06:Add8          123.87     3.363 No_date    3:09   23.59
00744>  001:0140---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00745>       ROUTE PIPE      -> 06:Add8          123.87     3.363 No_date    3:09   23.59
00746>  *    {RDT= 1.00] out<- 01:Pipe4         123.87     3.362 No_date    3:10   23.59
00747>         {L/S/n=  305./5.000/.013]
00748>         {Vmax= 6.922:Dmax=  .689}
00749>         {Din=  .75:Dused=  .84}
00750>  001:0141---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00751>       ADD HYD            01:Pipe4          123.87     3.362 No_date    3:10   23.59
00752>                        + 03:Add5           146.05     3.767 No_date    3:24   22.49
00753>         [DT= 1.00]  SUM=  02:Add9          269.92     7.064 No_date    3:21   22.99
00754>  001:0142---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00755>       CALIB NASHYD       01:SWMF              6.80      .732 No_date    3:00   46.17
00756>         [CN= 91.7: N= 3.00]
00757>         [Tp=  .05:DT= 1.00]
00758>  001:0143---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00759>       ADD HYD            01:SWMF              6.80      .732 No_date    3:00   46.17
00760>                        + 02:Add9          269.92     7.064 No_date    3:21   22.99
00761>         [DT= 1.00]  SUM=  03:Add10         276.72     7.177 No_date    3:21   23.56
00762>  001:0144---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00763>       ROUTE RESERVOIR -> 03:Add10         276.72     7.177 No_date    3:21   23.56
00764>         [RDT= 1.00] out<- 01:SWM1          276.72     4.010 No_date    4:39   23.56
00765>                  overflow <= 02:Spillflow     .00      .000 No_date    0:00     .00
00766>       {MxStoUsed=.3029E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
00767>  001:0145---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00768>       ADD HYD            01:SWM1          276.72     4.010 No_date    4:39   23.56
00769>                        + 02:Spillflow       .00      .000 No_date    0:00     .00
00770>         [DT= 1.00]  SUM=  04:Pond 10yr     276.72     4.010 No_date    4:39   23.56
00771>  001:0146---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00772>       SAVE HYD           04:Pond 10yr       276.72     4.010 No_date    4:39   23.56
00773>         fname :C:\AUGUST\PRE\CHI\Pond10yr.001
00774>         remark:Pond10yr
00775>  001:0147---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00776>       CALIB NASHYD       01:CottExt1          4.29      .309 No_date    3:02   29.96
00777>         [CN= 80.8: N= 3.00]
00778>         [Tp=  .20:DT= 1.00]
00779>  001:0148---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00780>       CALIB NASHYD       02:CottExt2          1.65      .106 No_date    3:01   24.91
00781>         [CN= 76.2: N= 3.00]
00782>         [Tp=  .15:DT= 1.00]
00783>  001:0149---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00784>       CALIB NASHYD       03:CottExt5           .38      .020 No_date    3:07   24.34
00785>         [CN= 76.0: N= 3.00]
00786>         [Tp=  .32:DT= 1.00]
00787>  001:0150---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00788>       CALIB STANDHYD     05:CottB             2.49      .246 No_date    3:00   47.52
00789>         [XIMP=.43:TIMP=.59]
00790>         [LOSS= 2 :CN= 79.0]
00791>         [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00792>         [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
00793>  001:0151---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00794>       ADD HYD            01:CottExt1          4.29      .309 No_date    3:02   29.96
00795>                        + 02:CottExt2          1.65      .106 No_date    3:01   24.91
00796>                        + 03:CottExt5           .38      .020 No_date    3:07   24.34
00797>                        + 04:Pond 10yr       276.72     4.010 No_date    4:39   23.56
00798>                        + 05:CottB             2.49      .246 No_date    3:00   47.52
00799>         [DT= 1.00]  SUM=  06:SWM1 Outle    285.53     4.077 No_date    4:39   23.87
00800>  001:0152---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00801>       CALIB STANDHYD     02:CottA             3.26      .316 No_date    3:00   46.44
00802>         [XIMP=.40:TIMP=.56]
00803>         [LOSS= 2 :CN= 79.0]
00804>         [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00805>         [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
00806>  001:0153---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00807>       CALIB NASHYD       03:CottExt6           .42      .028 No_date    3:00   24.34
00808>         [CN= 76.0: N= 3.00]
00809>         [Tp=  .09:DT= 1.00]
00810>  001:0154---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
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00811>      ADD HYD            02:CottA          3.26     .316 No_date    3:00   46.44
00812>                       + 03:CottExt6       .42     .028 No_date    3:00   24.14
00813>                       + 06:SWM1 Outle   285.53   4.077 No_date    4:39   23.87
00814>     [DT= 1.00]  SUM=  04:Sunset Out     289.21   4.107 No_date    4:38   24.13
00815> #*************************************************************************
00816> #**************************25 year Chicago Storm**************************
00817> #*************************************************************************
00818>  001:0155----------------------------------------------------------------
00819>      READ STORM
00820>       Filename = 25yr.stm
00821>       Comment  =
00822>       [SDT=60.00:SDUR=   6.00:PTOT=  77.90]
00823>  001:0156---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00824>      CALIB NASHYD       01:302           28.20    1.538 No_date    3:11   29.79
00825>       [CN= 74.2: N= 3.00]
00826>       [Tp=  .42:DT= 1.00]
00827>  001:0157---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00828>      ROUTE CHANNEL   -> 01:302           28.20    1.538 No_date    3:11   29.79
00829>       [RDT= 1.00] out<- 02:BCreek1       28.20    1.493 No_date    3:16   29.79
00830>       [L/S/n=  422./1.300/.070]
00831>       {Vmax= 1.070:Dmax=  .681}
00832>  001:0158---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00833>      CALIB NASHYD       03:201C          21.60     .737 No_date    3:22   23.21
00834>       [CN= 65.7: N= 3.00]
00835>       [Tp=  .59:DT= 1.00]
00836>  001:0159---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00837>      ADD HYD            02:BCreek1       28.20    1.493 No_date    3:16   29.79
00838>                       + 03:201C          21.60     .737 No_date    3:22   23.21
00839>       [DT= 1.00]  SUM=  04:Add1          49.80    2.221 No_date    3:18   26.94
00840>  001:0160---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00841>      ROUTE PIPE      -> 04:Add1          49.80    2.221 No_date    3:18   26.94
00842>       [RDT= 1.00] out<- 01:Pipe1         49.80    2.221 No_date    3:18   26.94
00843>       [L/S/n=  162./2.160/.013]
00844>       {Vmax= 4.681:Dmax=  .629}
00845>       [Din=  .90:Dused=  .90}
00846>  001:0161---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00847>      CALIB NASHYD       02:301           44.80    2.003 No_date    3:20   29.62
00848>       [CN= 74.0: N= 3.00]
00849>       [Tp=  .58:DT= 1.00]
00850>  001:0162---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00851>      ROUTE CHANNEL   -> 02:301           44.80    2.003 No_date    3:20   29.62
00852>       [RDT= 1.00] out<- 03:Overland1     44.80    1.248 No_date    4:00   29.62
00853>       [L/S/n=  676./2.600/.070]
00854>       {Vmax=  .219:Dmax=  .346}
00855>  001:0163---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00856>      CALIB NASHYD       04:201K           9.77     .418 No_date    3:18   26.93
00857>       [CN= 71.0: N= 3.00]
00858>       [Tp=  .53:DT= 1.00]
00859>  001:0164---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00860>      ADD HYD            03:Overland1     44.80    1.248 No_date    4:00   29.62
00861>                       + 04:201K          9.77     .418 No_date    3:18   26.93
00862>       [DT= 1.00]  SUM=  02:Add2          54.57    1.515 No_date    3:49   29.14
00863>  001:0165---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00864>      ROUTE CHANNEL   -> 02:Add2          54.57    1.515 No_date    3:49   29.14
00865>       [RDT= 1.00] out<- 03:BCreek2       54.57    1.513 No_date    3:51   29.14
00866>       [L/S/n=  261./2.300/.070]
00867>       {Vmax= 1.298:Dmax=  .576}
00868>  001:0166---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00869>      ADD HYD            01:Pipe1         49.80    2.221 No_date    3:18   26.94
00870>                       + 03:BCreek2       54.57    1.513 No_date    3:51   29.14
00871>       [DT= 1.00]  SUM=  02:Add3          104.37   3.446 No_date    3:24   28.09
00872>  001:0167---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00873>      ROUTE CHANNEL   -> 02:Add3          104.37   3.446 No_date    3:24   28.09
00874>       [RDT= 1.00] out<- 03:BCreek3       104.37   3.443 No_date    3:26   28.09
00875>       [L/S/n=  204./3.000/.070]
00876>       {Vmax= 1.827:Dmax=  .843}
00877>  001:0168---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00878>      CALIB NASHYD       01:201D           4.08     .091 No_date    3:15   13.70
00879>       [CN= 46.2: N= 3.00]
00880>       [Tp=  .48:DT= 1.00]
00881>  001:0169---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00882>      CALIB NASHYD       02:201E           8.13     .316 No_date    3:22   27.19
00883>       [CN= 67.6: N= 3.00]
00884>       [Tp=  .62:DT= 1.00]
00885>  001:0170---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00886>      CALIB NASHYD       04:201F           9.08     .487 No_date    3:28   41.55
00887>       [CN= 81.9: N= 3.00]
00888>       [Tp=  .75:DT= 1.00]
00889>  001:0171---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00890>      CALIB STANDHYD     05:202B          16.01    1.213 No_date    3:00   39.41
00891>       {XIMP=.35:TIMP=.50}
00892>       {LOSS= 2 :CN= 49.0}
00893>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00894>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
00895>  001:0172---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00896>      ADD HYD            01:201D           4.08     .091 No_date    3:15   13.70
00897>                       + 02:201E           8.13     .316 No_date    3:22   27.19
00898>                       + 03:BCreek3       104.37   3.443 No_date    3:26   28.09
00899>                       + 04:201F           9.08     .487 No_date    3:28   41.55
00900>                       + 05:202B          16.01    1.213 No_date    3:00   39.41
00901>       [DT= 1.00]  SUM=  06:Add4          141.67   4.766 No_date    3:19   29.77
00902>  001:0173---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00903>      ROUTE CHANNEL   -> 06:Add4          141.67   4.766 No_date    3:19   29.77
00904>       [RDT= 1.00] out<- 01:BCreek4       141.67   4.738 No_date    3:23   29.77
00905>       [L/S/n=  647./3.000/.070]
00906>       {Vmax= 1.996:Dmax= 1.001}
00907>  001:0174---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00908>      CALIB NASHYD       02:201G           4.38     .213 No_date    3:27   36.82
00909>       [CN= 78.4: N= 3.00]
00910>       [Tp=  .72:DT= 1.00]
00911>  001:0175---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00912>      ADD HYD            01:BCreek4       141.67   4.738 No_date    3:23   29.77
00913>                       + 02:201G           4.38     .213 No_date    3:27   36.82
00914>       [DT= 1.00]  SUM=  03:Add5          146.05   4.949 No_date    3:24   29.98
00915>  001:0176---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00916>      CALIB NASHYD       01:303           20.60    1.397 No_date    3:03   29.17
00917>       [CN= 73.6: N= 3.00]
00918>       [Tp=  .23:DT= 1.00]
00919>  001:0177---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00920>      ROUTE CHANNEL   -> 01:303           20.60    1.397 No_date    3:03   29.17
00921>       [RDT= 1.00] out<- 02:Overland2     20.60     .807 No_date    3:34   29.17
00922>       [L/S/n=  550./2.300/.070]
00923>       {Vmax=  .199:Dmax=  .341}
00924>  001:0178---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00925>      CALIB NASHYD       04:201A           23.20    1.179 No_date    3:14   29.57
00926>       [CN= 73.9: N= 3.00]
00927>       [Tp=  .47:DT= 1.00]
00928>  001:0179---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00929>      ADD HYD            02:Overland2     20.60     .807 No_date    3:34   29.17
00930>                       + 04:201A          23.20    1.179 No_date    3:14   29.57
00931>       [DT= 1.00]  SUM=  05:Add6          43.80    1.897 No_date    3:15   29.38
00932>  001:0180---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00933>      ROUTE CHANNEL   -> 05:Add6          43.80    1.897 No_date    3:15   29.38
00934>       [RDT= 1.00] out<- 08:Overland3     43.80    1.450 No_date    3:47   29.38
00935>       [L/S/n=  500./4.000/.070]
00936>       {Vmax=  .263:Dmax=  .341}
00937>  001:0181---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00938>      CALIB NASHYD       01:201J           16.40     .892 No_date    3:13   30.85
00939>       [CN= 74.8: N= 3.00]
00940>       [Tp=  .45:DT= 1.00]
00941>  001:0182---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00942>      ROUTE CHANNEL   -> 01:201J           16.40     .892 No_date    3:13   30.85
00943>       [RDT= 1.00] out<- 02:Overland4     16.40     .576 No_date    3:58   30.85
00944>       [L/S/n=  775./2.400/.070]
00945>       {Vmax=  .195:Dmax=  .335}

00946>  001:0183---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00947>      CALIB NASHYD       04:201B           14.30     .767 No_date    3:12   30.22
00948>       [CN= 73.0: N= 3.00]
00949>       [Tp=  .44:DT= 1.00]
00950>  001:0184---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00951>      CALIB NASHYD       06:201L           27.60    1.287 No_date    3:20   30.84
00952>       [CN= 74.8: N= 3.00]
00953>       [Tp=  .58:DT= 1.00]
00954>  001:0185---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00955>      ADD HYD            02:Overland4     16.40     .576 No_date    3:58   30.85
00956>                       + 04:201B          14.30     .767 No_date    3:12   30.22
00957>                       + 06:201L          27.60    1.287 No_date    3:20   30.84
00958>                       + 08:Overland3     43.80    1.450 No_date    3:47   29.38
00959>       [DT= 1.00]  SUM=  07:Add7          102.10   3.661 No_date    3:30   30.13
00960>  001:0186---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00961>      ROUTE PIPE      -> 07:Add7          102.10   3.661 No_date    3:30   30.13
00962>  *    [RDT= 1.00] out<- 01:Pipe2         102.10   3.658 No_date    3:31   30.13
00963>       [L/S/n=  450./1.500/.013]
00964>       {Vmax= 4.502:Dmax=  .891}
00965>       {Din=  .75:Dused= 1.09}
00966>  001:0187---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00967>      CALIB NASHYD       02:201H           9.17     .195 No_date    3:15   12.87
00968>       [CN= 43.9: N= 3.00]
00969>       [Tp=  .47:DT= 1.00]
00970>  001:0188---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00971>      ROUTE PIPE      -> 02:201H          9.17     .195 No_date    3:15   12.87
00972>       [RDT= 1.00] out<- 04:Pipe3         9.17     .194 No_date    3:18   12.87
00973>       [L/S/n=  435./1.300/.013]
00974>       {Vmax= 2.134:Dmax=  .230}
00975>       [Din=  .53:Dused=  .53}
00976>  001:0189---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00977>      CALIB STANDHYD     05:202C          12.60    1.396 No_date    3:00   54.86
00978>       [XIMP=.35:TIMP=.50]
00979>       [LOSS= 2 :CN= 79.0]
00980>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00981>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
00982>  001:0190---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00983>      ADD HYD            01:Pipe2         102.10   3.658 No_date    3:31   30.13
00984>                       + 04:Pipe3         9.17     .194 No_date    3:18   12.87
00985>                       + 05:202C          12.60    1.396 No_date    3:00   54.86
00986>       [DT= 1.00]  SUM=  06:Add8          123.87   4.338 No_date    3:08   31.37
00987>  001:0191---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00988>      ROUTE PIPE      -> 06:Add8          123.87   4.338 No_date    3:08   31.37
00989>  *    [RDT= 1.00] out<- 01:Pipe4         123.87   4.337 No_date    3:09   31.37
00990>       [L/S/n=  305./5.000/.013]
00991>       {Vmax= 7.377:Dmax=  .758}
00992>       {Din=  .75:Dused=  .92}
00993>  001:0192---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00994>      ADD HYD            01:Pipe4         123.87   4.337 No_date    3:09   31.37
00995>                       + 03:Add5          146.05   4.949 No_date    3:24   29.98
00996>       [DT= 1.00]  SUM=  02:Add9          269.92   9.211 No_date    3:22   30.62
00997>  001:0193---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00998>      CALIB NASHYD       01:SWMF           6.80     .868 No_date    3:00   57.32
00999>       [CN= 91.7: N= 3.00]
01000>       [Tp=  .05:DT= 1.00]
01001>  001:0194---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01002>      ADD HYD            01:SWMF           6.80     .868 No_date    3:00   57.32
01003>                       + 02:Add9          269.92   9.211 No_date    3:22   30.62
01004>       [DT= 1.00]  SUM=  03:Add10         276.72   9.353 No_date    3:22   31.27
01005>  001:0195---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01006>      ROUTE RESERVOIR -> 03:Add10         276.72   9.353 No_date    3:22   31.27
01007>       [RDT= 1.00] out<- 01:SWM1          276.72   5.522 No_date    4:32   31.27
01008>             overflow <= 02:Spillflow       .00      .000 No_date    0:00     .00
01009>       {MxStoUsed=.3697E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
01010>  001:0196---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01011>      ADD HYD            01:SWM1          276.72   5.522 No_date    4:32   31.27
01012>                       + 02:Spillflow       .00      .000 No_date    0:00     .00
01013>       [DT= 1.00]  SUM=  04:Pond 25yr     276.72   5.522 No_date    4:32   31.27
01014>  001:0197---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01015>      SAVE HYD           04:Pond 25yr      276.72   5.522 No_date    4:32   31.27
01016>       fname :C:\AUGUST\PRE\CHI\Pond25yr.001
01017>       remark:Pond25yr
01018>  001:0198---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01019>      CALIB NASHYD       01:CottExt1       4.29     .388 No_date    3:02   39.14
01020>       [CN= 80.8: N= 3.00]
01021>       [Tp=  .20:DT= 1.00]
01022>  001:0199---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01023>      CALIB NASHYD       02:CottExt2       1.65     .135 No_date    3:01   33.19
01024>       [CN= 76.2: N= 3.00]
01025>       [Tp=  .15:DT= 1.00]
01026>  001:0200---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01027>      CALIB NASHYD       03:CottExt5        .38     .026 No_date    3:06   32.55
01028>       [CN= 76.0: N= 3.00]
01029>       [Tp=  .32:DT= 1.00]
01030>  001:0201---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01031>      CALIB STANDHYD     05:CottB          2.49     .295 No_date    3:00   58.25
01032>       {XIMP=.43:TIMP=.59}
01033>       {LOSS= 2 :CN= 79.0}
01034>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01035>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
01036>  001:0202---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01037>      ADD HYD            01:CottExt1       4.29     .388 No_date    3:02   39.14
01038>                       + 02:CottExt2       1.65     .135 No_date    3:01   33.19
01039>                       + 03:CottExt5        .38     .026 No_date    3:06   32.55
01040>                       + 04:Pond 25yr     276.72   5.522 No_date    4:32   31.27
01041>                       + 05:CottB          2.49     .295 No_date    3:00   58.25
01042>       [DT= 1.00]  SUM=  06:SWM1 Outle   285.53   5.612 No_date    4:32   31.64
01043>  001:0203---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01044>      CALIB STANDHYD     02:CottA          3.26     .379 No_date    3:00   57.08
01045>       {XIMP=.40:TIMP=.56}
01046>       {LOSS= 2 :CN= 79.0}
01047>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01048>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
01049>  001:0204---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01050>      CALIB NASHYD       03:CottExt6       .42     .036 No_date    3:00   32.55
01051>       [CN= 76.0: N= 3.00]
01052>       [Tp=  .09:DT= 1.00]
01053>  001:0205---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01054>      ADD HYD            02:CottA          3.26     .379 No_date    3:00   57.08
01055>                       + 03:CottExt6       .42     .036 No_date    3:00   32.55
01056>                       + 06:SWM1 Outle   285.53   5.612 No_date    4:32   31.64
01057>       [DT= 1.00]  SUM=  04:Sunset Out   289.21   5.652 No_date    4:32   31.92
01058> #*************************************************************************
01059> #**************************50 year Chicago Storm**************************
01060> #*************************************************************************
01061>  001:0206----------------------------------------------------------------
01062>      READ STORM
01063>       Filename = 50yr.stm
01064>       Comment  =
01065>       [SDT=60.00:SDUR=   6.00:PTOT=  83.90]
01066>  001:0207---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01067>      CALIB NASHYD       01:302           28.20    1.744 No_date    3:11   33.95
01068>       [CN= 74.2: N= 3.00]
01069>       [Tp=  .42:DT= 1.00]
01070>  001:0208---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01071>      ROUTE CHANNEL   -> 01:302           28.20    1.744 No_date    3:11   33.95
01072>       [RDT= 1.00] out<- 02:BCreek1       28.20    1.698 No_date    3:15   33.95
01073>       [L/S/n=  422./1.300/.070]
01074>       {Vmax= 1.114:Dmax=  .731}
01075>  001:0209---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01076>      CALIB NASHYD       03:201C           21.60     .845 No_date    3:21   26.68
01077>       [CN= 65.7: N= 3.00]
01078>       [Tp=  .59:DT= 1.00]
01079>  001:0210---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01080>      ADD HYD            02:BCreek1        28.20    1.698 No_date    3:15   33.95
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01081>                    +  03:201C          21.60     .845 No_date    3:21   26.68
01082>      {DT= 1.00}  SUM=  04:Add1          49.80   2.531 No_date    3:17   30.80
01083> 001:0211--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01084>      ROUTE PIPE        -> 04:Add1       49.80   2.531 No_date    3:17   30.80
01085>        [RDT= 1.00] out<- 01:Pipe1       49.80   2.530 No_date    3:18   30.80
01086>        [L/S/n=  162./2.160/.013]
01087>        {Vmax= 4.760:Dmax=  .701}
01088>        [Din=  .90:Dused=  .90}
01089> 001:0212--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01090>      CALIB NASHYD      02:301           44.80   2.277 No_date    3:20   33.77
01091>        {CN= 74.0: N= 3.00}
01092>        {Tp=  .58:DT= 1.00}
01093> 001:0213--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01094>      ROUTE CHANNEL     -> 02:301        44.80   2.277 No_date    3:20   33.77
01095>        [RDT= 1.00] out<- 03:Overland1   44.80   1.433 No_date    3:58   33.77
01096>        [L/S/n=  676./2.600/.070]
01097>        {Vmax=  .224:Dmax=  .349}
01098> 001:0214--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01099>      CALIB NASHYD      04:201K           9.77     .477 No_date    3:17   30.81
01100>        {CN= 71.0: N= 3.00}
01101>        {Tp=  .53:DT= 1.00}
01102> 001:0215--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01103>      ADD HYD           03:Overland1     44.80   1.433 No_date    3:58   33.77
01104>                     +  04:201K          9.77     .477 No_date    3:17   30.81
01105>        [DT= 1.00]  SUM=  02:Add2        54.57   1.743 No_date    3:47   33.24
01106> 001:0216--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01107>      ROUTE CHANNEL     -> 02:Add2       54.57   1.743 No_date    3:47   33.24
01108>        [RDT= 1.00] out<- 03:BCreek2     54.57   1.742 No_date    3:49   33.24
01109>        [L/S/n=  261./2.300/.070]
01110>        {Vmax= 1.361:Dmax=  .625}
01111> 001:0217--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01112>      ADD HYD           01:Pipe1         49.80   2.530 No_date    3:18   30.80
01113>                     +  03:BCreek2       54.57   1.742 No_date    3:49   33.24
01114>        [DT= 1.00]  SUM=  02:Add3        104.37   3.943 No_date    3:25   32.07
01115> 001:0218--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01116>      ROUTE CHANNEL     -> 02:Add3       104.37   3.943 No_date    3:25   32.07
01117>        [RDT= 1.00] out<- 03:BCreek3     104.37   3.940 No_date    3:26   32.07
01118>        [L/S/n=  204./3.000/.070]
01119>        {Vmax= 1.894:Dmax=  .905}
01120> 001:0219--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01121>      CALIB NASHYD      01:201D           4.08     .105 No_date    3:15   15.86
01122>        {CN= 46.2: N= 3.00}
01123>        {Tp=  .48:DT= 1.00}
01124> 001:0220--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01125>      CALIB NASHYD      02:201E           8.13     .358 No_date    3:22   30.91
01126>        {CN= 67.6: N= 3.00}
01127>        {Tp=  .62:DT= 1.00}
01128> 001:0221--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01129>      CALIB NASHYD      04:201F           9.08     .543 No_date    3:28   46.47
01130>        {CN= 81.9: N= 3.00}
01131>        {Tp=  .75:DT= 1.00}
01132> 001:0222--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01133>      CALIB STANDHYD    05:202B          16.01   1.333 No_date    3:00   43.36
01134>        [XIMP=.35:TIMP=.50]
01135>        [LOSS= 2 :CN= 49.0]
01136>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01137>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
01138> 001:0223--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01139>      ADD HYD           01:201D           4.08     .105 No_date    3:15   15.86
01140>                     +  02:201E          8.13     .358 No_date    3:22   30.91
01141>                     +  03:BCreek3       104.37   3.940 No_date    3:26   32.07
01142>                     +  04:201F          9.08     .543 No_date    3:28   46.47
01143>                     +  05:202B          16.01   1.333 No_date    3:00   43.36
01144>        [DT= 1.00]  SUM=  06:Add4        141.67   5.397 No_date    3:20   33.74
01145> 001:0224--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01146>      ROUTE CHANNEL     -> 06:Add4       141.67   5.397 No_date    3:20   33.74
01147>        [RDT= 1.00] out<- 01:BCreek4     141.67   5.376 No_date    3:24   33.74
01148>        [L/S/n=  647./3.000/.070]
01149>        {Vmax= 2.067:Dmax= 1.070}
01150> 001:0225--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01151>      CALIB NASHYD      02:201G           4.38     .238 No_date    3:27   41.42
01152>        {CN= 78.4: N= 3.00}
01153>        {Tp=  .72:DT= 1.00}
01154> 001:0226--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01155>      ADD HYD           01:BCreek4       141.67   5.376 No_date    3:24   33.74
01156>                     +  02:201G          4.38     .238 No_date    3:27   41.42
01157>        [DT= 1.00]  SUM=  03:Add5        146.05   5.614 No_date    3:24   33.97
01158> 001:0227--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01159>      CALIB NASHYD      01:303           20.60   1.576 No_date    3:03   33.28
01160>        {CN= 73.6: N= 3.00}
01161>        {Tp=  .23:DT= 1.00}
01162> 001:0228--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01163>      ROUTE CHANNEL     -> 01:303        20.60   1.576 No_date    3:03   33.28
01164>        [RDT= 1.00] out<- 02:Overland2   20.60     .908 No_date    3:35   33.28
01165>        [L/S/n=  550./2.300/.070]
01166>        {Vmax=  .202:Dmax=  .343}
01167> 001:0229--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01168>      CALIB NASHYD      04:201A          23.20   1.338 No_date    3:14   33.71
01169>        {CN= 73.9: N= 3.00}
01170>        {Tp=  .47:DT= 1.00}
01171> 001:0230--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01172>      ADD HYD           02:Overland2     20.60     .908 No_date    3:35   33.28
01173>                     +  04:201A          23.20   1.338 No_date    3:14   33.71
01174>        [DT= 1.00]  SUM=  05:Add6        43.80   2.148 No_date    3:16   33.51
01175> 001:0231--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01176>      ROUTE CHANNEL     -> 05:Add6       43.80   2.148 No_date    3:16   33.51
01177>        [RDT= 1.00] out<- 08:Overland3   43.80   1.653 No_date    3:45   33.51
01178>        [L/S/n=  500./4.000/.070]
01179>        {Vmax=  .267:Dmax=  .343}
01180> 001:0232--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01181>      CALIB NASHYD      01:201J          16.40   1.010 No_date    3:12   35.08
01182>        {CN= 74.8: N= 3.00}
01183>        {Tp=  .45:DT= 1.00}
01184> 001:0233--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01185>      ROUTE CHANNEL     -> 01:201J       16.40   1.010 No_date    3:12   35.08
01186>        {RDT= 1.00] out<- 02:Overland4   16.40     .628 No_date    4:01   35.08
01187>        {L/S/n=  775./2.400/.070]
01188>        {Vmax=  .197:Dmax=  .336}
01189> 001:0234--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01190>      CALIB NASHYD      04:201B          14.30     .867 No_date    3:12   34.33
01191>        {CN= 73.0: N= 3.00}
01192>        {Tp=  .44:DT= 1.00}
01193> 001:0235--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01194>      CALIB NASHYD      06:201L          27.60   1.460 No_date    3:20   35.07
01195>        {CN= 74.8: N= 3.00}
01196>        {Tp=  .58:DT= 1.00}
01197> 001:0236--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01198>      ADD HYD           02:Overland4     16.40     .628 No_date    4:01   35.08
01199>                     +  04:201B          14.30     .867 No_date    3:12   34.33
01200>                     +  06:201L          27.60   1.460 No_date    3:20   35.07
01201>                     +  08:Overland3     43.80   1.653 No_date    3:45   33.51
01202>        [DT= 1.00]  SUM=  07:Add7        102.10   4.153 No_date    3:27   34.30
01203> 001:0237--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01204>      ROUTE PIPE        -> 07:Add7       102.10   4.153 No_date    3:27   34.30
01205>  *   [RDT= 1.00] out<- 01:Pipe2        102.10   4.149 No_date    3:29   34.30
01206>        [L/S/n=  450./1.500/.013]
01207>        {Vmax= 4.646:Dmax=  .935}
01208>        [Din=  .75:Dused= 1.14}
01209> 001:0238--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01210>      CALIB NASHYD      02:201H           9.17     .225 No_date    3:15   14.90
01211>        {CN= 43.9: N= 3.00}
01212>        {Tp=  .47:DT= 1.00}
01213> 001:0239--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01214>      ROUTE PIPE        -> 02:201H        9.17     .225 No_date    3:15   14.90
01215>        [RDT= 1.00] out<- 04:Pipe3        9.17     .223 No_date    3:17   14.90
01216>        [L/S/n=  435./1.300/.013]
01217>        {Vmax= 2.217:Dmax=  .249}
01218>        [Din=  .53:Dused=  .53}
01219> 001:0240--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01220>      CALIB STANDHYD    05:202C          12.60   1.525 No_date    3:00   60.22
01221>        {XIMP=.35:TIMP=.50}
01222>        [LOSS= 2 :CN= 79.0]
01223>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01224>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
01225> 001:0241--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01226>      ADD HYD           01:Pipe2         102.10   4.149 No_date    3:29   34.30
01227>                     +  04:Pipe3         9.17     .223 No_date    3:17   14.90
01228>                     +  05:202C          12.60   1.525 No_date    3:00   60.22
01229>        [DT= 1.00]  SUM=  06:Add8        123.87   4.876 No_date    3:07   35.50
01230> 001:0242--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01231>      ROUTE PIPE        -> 06:Add8       123.87   4.876 No_date    3:07   35.50
01232>  *   [RDT= 1.00] out<- 01:Pipe4        123.87   4.874 No_date    3:08   35.50
01233>        [L/S/n=  305./5.000/.013]
01234>        {Vmax= 7.596:Dmax=  .792}
01235>        [Din=  .75:Dused=  .97}
01236> 001:0243--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01237>      ADD HYD           01:Pipe4         123.87   4.874 No_date    3:08   35.50
01238>                     +  03:Add5          146.05   5.614 No_date    3:24   33.97
01239>        [DT= 1.00]  SUM=  02:Add9        269.92  10.439 No_date    3:23   34.67
01240> 001:0244--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01241>      CALIB NASHYD      01:SWMF           6.80     .939 No_date    3:00   63.01
01242>        {CN= 91.7: N= 3.00}
01243>        {Tp=  .05:DT= 1.00}
01244> 001:0245--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01245>      ADD HYD           01:SWMF           6.80     .939 No_date    3:00   63.01
01246>                     +  02:Add9        269.92  10.439 No_date    3:23   34.67
01247>        [DT= 1.00]  SUM=  03:Add10       276.72  10.593 No_date    3:23   35.37
01248> 001:0246--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01249>      ROUTE RESERVOIR -> 03:Add10       276.72  10.593 No_date    3:23   35.37
01250>        [RDT= 1.00] out<- 01:SWM1        268.56   5.834 No_date    4:00   35.37
01251>              overflow <= 02:Spillflow     8.16   2.760 No_date    4:00   35.37
01252>        {MxStoUsed=.3836E+01, TotOvfVol=.2886E+00, N-Ovf=    2, TotDurOvf=    1.hrs
01253> 001:0247--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01254>      ADD HYD           01:SWM1          268.56   5.834 No_date    4:00   35.37
01255>                     +  02:Spillflow     8.16   2.760 No_date    4:00   35.37
01256>        [DT= 1.00]  SUM=  04:Pond 50yr   276.72   8.594 No_date    4:00   35.37
01257> 001:0248--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01258>      SAVE HYD          04:Pond 50yr     276.72   8.594 No_date    4:00   35.37
01259>        fname :C:\AUGUST\PRE\CHI\Pond50yr.001
01260>        remark:Pond50yr
01261> 001:0249--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01262>      CALIB NASHYD      01:CottExt1       4.29     .430 No_date    3:02   43.94
01263>        {CN= 80.8: N= 3.00}
01264>        {Tp=  .20:DT= 1.00}
01265> 001:0250--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01266>      CALIB NASHYD      02:CottExt2       1.65     .151 No_date    3:01   37.57
01267>        {CN= 76.2: N= 3.00}
01268>        {Tp=  .15:DT= 1.00}
01269> 001:0251--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01270>      CALIB NASHYD      03:CottExt5        .38     .029 No_date    3:06   36.90
01271>        {CN= 76.0: N= 3.00}
01272>        {Tp=  .32:DT= 1.00}
01273> 001:0252--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01274>      CALIB STANDHYD    05:CottB          2.49     .321 No_date    3:00   63.74
01275>        [XIMP=.43:TIMP=.59]
01276>        [LOSS= 2 :CN= 79.0]
01277>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01278>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
01279> 001:0253--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01280>      ADD HYD           01:CottExt1       4.29     .430 No_date    3:02   43.94
01281>                     +  02:CottExt2       1.65     .151 No_date    3:01   37.57
01282>                     +  03:CottExt5        .38     .029 No_date    3:06   36.90
01283>                     +  04:Pond 50yr     276.72   8.594 No_date    4:00   35.37
01284>                     +  05:CottB          2.49     .321 No_date    3:00   63.74
01285>        [DT= 1.00]  SUM=  06:SWM1 Outle  285.53   8.765 No_date    4:00   35.76
01286> 001:0254--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01287>      CALIB STANDHYD    02:CottA          3.26     .414 No_date    3:00   62.53
01288>        [XIMP=.40:TIMP=.56]
01289>        [LOSS= 2 :CN= 79.0]
01290>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01291>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
01292> 001:0255--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01293>      CALIB NASHYD      03:CottExt6        .42     .040 No_date    3:00   36.90
01294>        {CN= 76.0: N= 3.00}
01295>        {Tp=  .09:DT= 1.00}
01296> 001:0256--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01297>      ADD HYD           02:CottA          3.26     .414 No_date    3:00   62.53
01298>                     +  03:CottExt6       .42     .040 No_date    3:00   36.90
01299>                     +  06:SWM1 Outle  285.53   8.765 No_date    4:00   35.76
01300>        [DT= 1.00]  SUM=  04:Sunset Out  289.21   8.844 No_date    4:00   36.06
01301> ********************************************************************************
01302> **********100 year Chicago Storm**********************************************
01303> ********************************************************************************
01304> 001:0257--------------------------------------------------------------------------
01305>      READ STORM
01306>       Filename = 100yr.stm
01307>       Comment  =
01308>       {SDT=60.00:SDUR=   6.00:PTOT=  96.00}
01309> 001:0258--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01310>      CALIB NASHYD      01:302           28.20   2.192 No_date    3:11   42.73
01311>        {CN= 74.2: N= 3.00}
01312>        {Tp=  .42:DT= 1.00}
01313> 001:0259--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01314>      ROUTE CHANNEL     -> 01:302        28.20   2.192 No_date    3:11   42.73
01315>        [RDT= 1.00] out<- 02:BCreek1     28.20   2.141 No_date    3:15   42.73
01316>        [L/S/n=  422./1.300/.070]
01317>        {Vmax= 1.189:Dmax=  .827}
01318> 001:0260--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01319>      CALIB NASHYD      03:201C          21.60   1.084 No_date    3:21   34.08
01320>        {CN= 65.7: N= 3.00}
01321>        {Tp=  .59:DT= 1.00}
01322> 001:0261--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01323>      ADD HYD           02:BCreek1       28.20   2.141 No_date    3:15   42.73
01324>                     +  03:201C          21.60   1.084 No_date    3:21   34.08
01325>        [DT= 1.00]  SUM=  04:Add1        49.80   3.208 No_date    3:16   38.98
01326> 001:0262--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01327>      ROUTE PIPE        -> 04:Add1       49.80   3.208 No_date    3:16   38.98
01328>  *   [RDT= 1.00] out<- 01:Pipe1        49.80   3.207 No_date    3:17   38.98
01329>        [L/S/n=  162./2.160/.013]
01330>        {Vmax= 4.994:Dmax=  .792}
01331>        [Din=  .90:Dused=  .97}
01332> 001:0263--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01333>      CALIB NASHYD      02:301           44.80   2.876 No_date    3:19   42.52
01334>        {CN= 74.0: N= 3.00}
01335>        {Tp=  .58:DT= 1.00}
01336> 001:0264--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01337>      ROUTE CHANNEL     -> 02:301        44.80   2.876 No_date    3:19   42.52
01338>        [RDT= 1.00] out<- 03:Overland1   44.80   1.846 No_date    3:55   42.52
01339>        [L/S/n=  676./2.600/.070]
01340>        {Vmax=  .235:Dmax=  .356}
01341> 001:0265--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01342>      CALIB NASHYD      04:201K           9.77     .606 No_date    3:17   39.06
01343>        {CN= 71.0: N= 3.00}
01344>        {Tp=  .53:DT= 1.00}
01345> 001:0266--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01346>      ADD HYD           03:Overland1     44.80   1.846 No_date    3:55   42.52
01347>                     +  04:201K          9.77     .606 No_date    3:17   39.06
01348>        [DT= 1.00]  SUM=  02:Add2        54.57   2.254 No_date    3:44   41.90
01349> 001:0267--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01350>      ROUTE CHANNEL     -> 02:Add2       54.57   2.254 No_date    3:44   41.90
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      [RDT= 1.00] out<- 03:BCreek2       54.57    2.251 No_date    3:47   41.90
      [L/S/n=  261./2.300/.070]
      [Vmax= 1.467:Dmax=  .719]
001:0268----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:Pipe1         49.80    3.207 No_date    3:17   38.98
                       + 03:BCreek2       54.57    2.251 No_date    3:47   41.90
      [DT= 1.00]  SUM=  02:Add3          104.37    5.066 No_date    3:24   40.50
001:0269----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL    -> 02:Add3          104.37    5.066 No_date    3:24   40.50
      [RDT= 1.00] out<- 03:BCreek3       104.37    5.063 No_date    3:25   40.50
      [L/S/n=  204./3.000/.070]
      [Vmax= 2.032:Dmax= 1.035]
001:0270----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:201D          4.08     .137 No_date    3:15   20.57
      [CN= 46.2: N= 3.00]
      [Tp=  .48:DT= 1.00]
001:0271----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         02:201E          8.13     .450 No_date    3:22   38.80
      [CN= 67.6: N= 3.00]
      [Tp=  .62:DT= 1.00]
001:0272----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         04:201F          9.08     .663 No_date    3:28   56.67
      [CN= 81.9: N= 3.00]
      [Tp=  .75:DT= 1.00]
001:0273----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD       05:202B         16.01    1.596 No_date    3:00   51.58
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 49.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
001:0274----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:201D          4.08     .137 No_date    3:15   20.57
                       + 02:201E          8.13     .450 No_date    3:22   38.80
                       + 03:BCreek3       104.37   5.063 No_date    3:25   40.50
                       + 04:201F          9.08     .663 No_date    3:28   56.67
                       + 05:202B          16.01    1.596 No_date    3:00   51.58
      [DT= 1.00]  SUM=  06:Add4          141.67    6.842 No_date    3:20   42.12
001:0275----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL    -> 06:Add4          141.67    6.842 No_date    3:20   42.12
      [RDT= 1.00] out<- 01:BCreek4       141.67    6.807 No_date    3:24   42.12
      [L/S/n=  647./3.000/.070]
      [Vmax= 2.201:Dmax= 1.211]
001:0276----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         02:201G          4.38     .294 No_date    3:26   51.04
      [CN= 78.4: N= 3.00]
      [Tp=  .72:DT= 1.00]
001:0277----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:BCreek4       141.67    6.807 No_date    3:24   42.12
                       + 02:201G          4.38     .294 No_date    3:26   51.04
      [DT= 1.00]  SUM=  03:Add5          146.05    7.101 No_date    3:24   42.39
001:0278----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:303           20.60    1.962 No_date    3:03   41.95
      [CN= 73.6: N= 3.00]
      [Tp=  .23:DT= 1.00]
001:0279----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL    -> 01:303           20.60    1.962 No_date    3:03   41.95
      [RDT= 1.00] out<- 02:Overland2     20.60    1.091 No_date    3:37   41.95
      [L/S/n=  550./2.300/.070]
      [Vmax=  .208:Dmax=  .347]
001:0280----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         04:201A          23.20    1.686 No_date    3:13   42.44
      [CN= 73.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0281----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              02:Overland2     20.60    1.091 No_date    3:37   41.95
                       + 04:201A          23.20    1.686 No_date    3:13   42.44
      [DT= 1.00]  SUM=  05:Add6          43.80    2.744 No_date    3:15   42.21
001:0282----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL    -> 05:Add6          43.80    2.744 No_date    3:15   42.21
      [RDT= 1.00] out<- 08:Overland3     43.80    2.100 No_date    3:43   42.21
      [L/S/n=  500./4.000/.070]
      [Vmax=  .277:Dmax=  .348]
001:0283----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:201J          16.40    1.265 No_date    3:12   43.99
      [CN= 74.8: N= 3.00]
      [Tp=  .45:DT= 1.00]
001:0284----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL    -> 01:201J          16.40     .732 No_date    4:06   43.99
      [RDT= 1.00] out<- 02:Overland4     16.40     .732 No_date    4:06   43.99
      [L/S/n=  775./2.400/.070]
      [Vmax=  .201:Dmax=  .339]
001:0285----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         04:201B          14.30    1.085 No_date    3:11   43.00
      [CN= 73.0: N= 3.00]
      [Tp=  .44:DT= 1.00]
001:0286----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         06:201L          27.60    1.835 No_date    3:19   43.98
      [CN= 74.8: N= 3.00]
      [Tp=  .58:DT= 1.00]
001:0287----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              02:Overland4     16.40     .732 No_date    4:06   43.99
                       + 04:201B          14.30    1.085 No_date    3:11   43.00
                       + 06:201L          27.60    1.835 No_date    3:19   43.98
                       + 08:Overland3     43.80    2.100 No_date    3:43   42.21
      [DT= 1.00]  SUM=  07:Add7          102.10    5.272 No_date    3:26   43.08
001:0288----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE       -> 07:Add7          102.10    5.272 No_date    3:26   43.08
*     [RDT= 1.00] out<- 01:Pipe2         102.10    5.267 No_date    3:27   43.08
      [L/S/n=  450./1.500/.013]
      {Vmax= 4.932:Dmax= 1.022}
      [Din=  .75:Dused= 1.25}
001:0289----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         02:201H          9.17     .292 No_date    3:14   19.34
      [CN= 43.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0290----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE       -> 02:201H          9.17     .292 No_date    3:14   19.34
      [RDT= 1.00] out<- 04:Pipe3         9.17     .290 No_date    3:17   19.34
      [L/S/n=  435./1.300/.013]
      {Vmax= 2.362:Dmax=  .291}
      [Din=  .53:Dused=  .53}
001:0291----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD       05:202C          12.60    1.800 No_date    3:00   71.21
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
001:0292----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:Pipe2         102.10    5.267 No_date    3:27   43.08
                       + 04:Pipe3         9.17     .290 No_date    3:17   19.34
                       + 05:202C          12.60    1.800 No_date    3:00   71.21
      [DT= 1.00]  SUM=  06:Add8          123.87    6.090 No_date    3:19   44.19
001:0293----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE       -> 06:Add8          123.87    6.090 No_date    3:19   44.19
*     [RDT= 1.00] out<- 01:Pipe4         123.87    6.089 No_date    3:19   44.19
      [L/S/n=  305./5.000/.013]
      [Vmax= 8.030:Dmax=  .861]
      [Din=  .75:Dused= 1.05}
001:0294----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:Pipe4         123.87    6.089 No_date    3:19   44.19
                       + 03:Add5          146.05    7.101 No_date    3:24   42.39
      [DT= 1.00]  SUM=  02:Add9          269.92   13.177 No_date    3:22   43.21
001:0295----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:SWMF           6.80    1.086 No_date    3:00   74.58
      [CN= 91.7: N= 3.00]
      [Tp=  .05:DT= 1.00]
001:0296----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:SWMF           6.80    1.086 No_date    3:00   74.58
                       + 02:Add9          269.92   13.177 No_date    3:22   43.21
      [DT= 1.00]  SUM=  03:Add10         276.72   13.357 No_date    3:22   43.98
001:0297----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE RESERVOIR -> 03:Add10         276.72   13.357 No_date    3:22   43.98
      {RDT= 1.00] out<- 01:SWM1          238.16    5.834 No_date    3:34   43.98
            overflow <= 02:Spillflow      38.56    7.153 No_date    3:34   43.98
      {MxStoUsed=.3836E+01, TotOvfVol=.1696E+01, N-Ovf=    2, TotDurOvf=    1.hrs
001:0298----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:SWM1          238.16    5.834 No_date    3:34   43.98
                       + 02:Spillflow      38.56    7.153 No_date    3:34   43.98
      [DT= 1.00]  SUM=  04:Pond 100yr    276.72   12.987 No_date    3:34   43.98
001:0299----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    SAVE HYD             04:Pond 100yr    276.72   12.987 No_date    3:34   43.98
      fname :C:\AUGUST\PRE\CHI\Pond100yr.001
      remark:Pond100yr
001:0300----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         01:CottExt1        4.29     .519 No_date    3:02   53.92
      [CN= 80.8: N= 3.00]
      [Tp=  .20:DT= 1.00]
001:0301----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         02:CottExt2        1.65     .184 No_date    3:01   46.76
      [CN= 76.2: N= 3.00]
      [Tp=  .15:DT= 1.00]
001:0302----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         03:CottExt5         .38     .036 No_date    3:06   46.04
      [CN= 76.0: N= 3.00]
      [Tp=  .32:DT= 1.00]
001:0303----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD       05:CottB           2.49     .375 No_date    3:00   74.94
      [XIMP=.43:TIMP=.59]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
001:0304----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              01:CottExt1        4.29     .519 No_date    3:02   53.92
                       + 02:CottExt2        1.65     .184 No_date    3:01   46.76
                       + 03:CottExt5         .38     .036 No_date    3:06   46.04
                       + 04:Pond 100yr    276.72   12.987 No_date    3:34   43.98
                       + 05:CottB           2.49     .375 No_date    3:00   74.94
      [DT= 1.00]  SUM=  06:SWM1 Outle    285.53   13.239 No_date    3:34   44.42
001:0305----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD       02:CottA           3.26     .484 No_date    3:00   73.66
      [XIMP=.40:TIMP=.56]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
001:0306----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD         03:CottExt6         .42     .048 No_date    3:00   46.04
      [CN= 76.0: N= 3.00]
      [Tp=  .09:DT= 1.00]
001:0307----------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD              02:CottA           3.26     .484 No_date    3:00   73.66
                       + 03:CottExt6         .42     .048 No_date    3:00   46.04
                       + 06:SWM1 Outle    285.53   13.239 No_date    3:34   44.42
      [DT= 1.00]  SUM=  04:Sunset Out    289.21   13.339 No_date    3:34   44.75
001:0308----------------------------------------------------------------------
    FINISH
--------------------------------------------------------------------------------
********************************************************************************
    WARNINGS / ERRORS / NOTES
    -------------------------
001:0084 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0135 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0140 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0186 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0191 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0237 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0242 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0262 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0288 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0293 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
  Simulation ended on 2018-08-09     at 16:34:42
********************************************************************************
```

```
00001> 2     Metric units
00002> *#*************************************************************************
00003> *#  Project Name: [Lora Bay Phase 4]                  Project Number: [469-3061]
00004> *#  Date        : August 9, 2018
00005> *#  Modeller    : [B. Ellsworth]
00006> *#  Company     : C.F. Crozier & Associates Inc.
00007> *#  License #   : 3737016
00008> *#*************************************************************************
00009> *#  Filename    : Continuous Model
00010> *#  Continuous Model
00011> *#*************************************************************************
00012> *#*************************************************************************
00013> *#*************************************************************************
00014>
00015> *%-----------------|-------------------------------------------------------|
00016> START              TZERO=[0.0],  METOUT=[2],  NSTORM=[0],  NRUN=[0]
00017> *%                  [ ] <--storm filename, one per line for NSTORM time
00018> *%-----------------|-------------------------------------------------------|
00019> *#*************************************************************************
00020> *#**************************2 year SCS 24HR HII Storm**************************
00021> *#*************************************************************************
00022> *%-----------------|-------------------------------------------------------|
00023> MASS STORM         PTOTAL=[45.60](mm), CSDT=[1](min),
00024>                    CURVE_FILENAME=["SCS24HII.met"]
00025> *%-----------------|-------------------------------------------------------|
00026> CALIB NASHYD       ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
00027>                    DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
00028>                    N=[3], TP=[0.42]hrs,
00029>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00030> *%-----------------|-------------------------------------------------------|
00031> ROUTE CHANNEL      IDout=[2], NHYD=["BCreek1"], IDin=[1],
00032>                    RDT=[1](min),
00033>                    CHLGTH=[422](m),  CHSLOPE=[1.3](%),
00034>                                      FPSLOPE=[1.3](%),
00035>                    SECNUM=[1.1],     NSEG=[3]
00036>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00037>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00038>                                                  [1.75,1]
00039>                                                  [3.25,1]
00040>                                                  [5,3]
00041> *%-----------------|-------------------------------------------------------|
00042> CALIB NASHYD       ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00043>                    DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
00044>                    N=[3], TP=[0.59]hrs,
00045>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00046> *%-----------------|-------------------------------------------------------|
00047> ADD HYD           IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00048> *%-----------------|-------------------------------------------------------|
00049> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00050>                    PDIAM=[900](mm), PLNGTH=[162](m),
00051>                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00052>                    RDT=[1](min)
00053> *%-----------------|-------------------------------------------------------|
00054> CALIB NASHYD       ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00055>                    DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
00056>                    N=[3], TP=[0.58]hrs,
00057>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00058> *%-----------------|-------------------------------------------------------|
00059> ROUTE CHANNEL      IDout=[3], NHYD=["Overland1"], IDin=[2],
00060>                    RDT=[1](min),
00061>                    CHLGTH=[676](m),  CHSLOPE=[2.6](%),
00062>                                      FPSLOPE=[2.6](%),
00063>                    SECNUM=[1.1],     NSEG=[3]
00064>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00065>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00066>                                                  [1000,1.7]
00067>                                                  [1001,1.4]
00068>                                                  [1002,1.7]
00069>                                                  [2000,2]
00070> *%-----------------|-------------------------------------------------------|
00071> CALIB NASHYD       ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00072>                    DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
00073>                    N=[3], TP=[0.53]hrs,
00074>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00075> *%-----------------|-------------------------------------------------------|
00076> ADD HYD           IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00077> *%-----------------|-------------------------------------------------------|
00078> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek2"], IDin=[2],
00079>                    RDT=[1](min),
00080>                    CHLGTH=[261](m),  CHSLOPE=[2.3](%),
00081>                                      FPSLOPE=[2.3](%),
00082>                    SECNUM=[1.1],     NSEG=[3]
00083>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00084>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00085>                                                  [1.75,1]
00086>                                                  [3.25,1]
00087>                                                  [5,3]
00088> *%-----------------|-------------------------------------------------------|
00089> ADD HYD           IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
00090> *%-----------------|-------------------------------------------------------|
00091> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek3"], IDin=[2],
00092>                    RDT=[1](min),
00093>                    CHLGTH=[204](m),  CHSLOPE=[3](%),
00094>                                      FPSLOPE=[3](%),
00095>                    SECNUM=[1.1],     NSEG=[3]
00096>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00097>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00098>                                                  [1.75,1]
00099>                                                  [3.25,1]
00100>                                                  [5,3]
00101> *%-----------------|-------------------------------------------------------|
00102> CALIB NASHYD       ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
00103>                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
00104>                    N=[3], TP=[0.48]hrs,
00105>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00106> *%-----------------|-------------------------------------------------------|
00107> CALIB NASHYD       ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
00108>                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
00109>                    N=[3], TP=[0.62]hrs,
00110>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00111> *%-----------------|-------------------------------------------------------|
00112> CALIB NASHYD       ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
00113>                    DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
00114>                    N=[3], TP=[0.75]hrs,
00115>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00116> *%=================|=======================================================|
00117> CALIB STANDHYD     ID=[5], NHYD=["202B"], DT=[1](min), AREA=(16.01](ha),
00118>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00119>                    SCS curve number CN=[49],
00120>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00121>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00122>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00123>                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
00124>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00125> *%-----------------|-------------------------------------------------------|
00126> ADD HYD           IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
00127> *%-----------------|-------------------------------------------------------|
00128> ROUTE CHANNEL      IDout=[1], NHYD=["BCreek4"], IDin=[6],
00129>                    RDT=[1](min),
00130>                    CHLGTH=[647](m),  CHSLOPE=[3](%),
00131>                                      FPSLOPE=[3](%),
00132>                    SECNUM=[1.1],     NSEG=[3]
00133>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00134>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00135>                                                  [1.75,1]
00136>                                                  [3.25,1]
00137>                                                  [5,3]
00138> *%-----------------|-------------------------------------------------------|
00139> CALIB NASHYD       ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
00140>                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
00141>                    N=[3], TP=[0.72]hrs,
00142>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00143> *%-----------------|-------------------------------------------------------|
00144> ADD HYD           IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
00145> *%-----------------|-------------------------------------------------------|
00146> CALIB NASHYD       ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
00147>                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
00148>                    N=[3], TP=[0.23]hrs,
00149>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00150> *%-----------------|-------------------------------------------------------|
00151> ROUTE CHANNEL      IDout=[2], NHYD=["Overland2"], IDin=[1],
00152>                    RDT=[1](min),
00153>                    CHLGTH=[550](m),  CHSLOPE=[2.3](%),
00154>                                      FPSLOPE=[2.3](%),
00155>                    SECNUM=[1.1],     NSEG=[3]
00156>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00157>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00158>                                                  [1000,1.7]
00159>                                                  [1001,1.4]
00160>                                                  [1002,1.7]
00161>                                                  [2000,2]
00162> *%-----------------|-------------------------------------------------------|
00163> CALIB NASHYD       ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
00164>                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
00165>                    N=[3], TP=[0.47]hrs,
00166>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00167>
00168> *%-----------------|-------------------------------------------------------|
00169> ADD HYD           IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
00170> *%-----------------|-------------------------------------------------------|
00171> ROUTE CHANNEL      IDout=[8], NHYD=["Overland3"], IDin=[5],
00172>                    RDT=[1](min),
00173>                    CHLGTH=[500](m),  CHSLOPE=[4.0](%),
00174>                                      FPSLOPE=[4.0](%),
00175>                    SECNUM=[1.1],     NSEG=[3]
00176>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00177>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00178>                                                  [1000,1.7]
00179>                                                  [1001,1.4]
00180>                                                  [1002,1.7]
00181>                                                  [2000,2]
00182> *%-----------------|-------------------------------------------------------|
00183> CALIB NASHYD       ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
00184>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
00185>                    N=[3], TP=[0.45]hrs,
00186>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00187> *%-----------------|-------------------------------------------------------|
00188> ROUTE CHANNEL      IDout=[2], NHYD=["Overland4"], IDin=[1],
00189>                    RDT=[1](min),
00190>                    CHLGTH=[775](m),  CHSLOPE=[2.4](%),
00191>                                      FPSLOPE=[2.4](%),
00192>                    SECNUM=[1.1],     NSEG=[3]
00193>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00194>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00195>                                                  [1000,1.7]
00196>                                                  [1001,1.4]
00197>                                                  [1002,1.7]
00198>                                                  [2000,2]
00199> *%-----------------|-------------------------------------------------------|
00200> CALIB NASHYD       ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
00201>                    DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
00202>                    N=[3], TP=[0.44]hrs,
00203>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00204> *%-----------------|-------------------------------------------------------|
00205> CALIB NASHYD       ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
00206>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
00207>                    N=[3], TP=[0.58]hrs,
00208>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00209> *%-----------------|-------------------------------------------------------|
00210> ADD HYD           IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
00211> *%-----------------|-------------------------------------------------------|
00212> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
00213>                    PDIAM=[750](mm), PLNGTH=[450](m),
00214>                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
00215>                    RDT=[1](min)
00216> *%-----------------|-------------------------------------------------------|
00217> CALIB NASHYD       ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
00218>                    DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
00219>                    N=[3], TP=[0.47]hrs,
00220>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00221> *%-----------------|-------------------------------------------------------|
00222> ROUTE PIPE         PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
00223>                    PDIAM=[525](mm), PLNGTH=[435](m),
00224>                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
00225>                    RDT=[1](min)
00226> *%-----------------|-------------------------------------------------------|
00227> CALIB STANDHYD     ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
00228>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00229>                    SCS curve number CN=[79],
00230>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00231>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00232>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00233>                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
00234>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00235> *%-----------------|-------------------------------------------------------|
00236> ADD HYD           IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
00237> *%-----------------|-------------------------------------------------------|
00238> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
00239>                    PDIAM=[750](mm), PLNGTH=[305](m),
00240>                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
00241>                    RDT=[1](min)
00242> *%-----------------|-------------------------------------------------------|
00243> ADD HYD           IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
00244> *%-----------------|-------------------------------------------------------|
00245> CALIB NASHYD       ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
00246>                    DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
00247>                    N=[3], TP=[0.05]hrs,
00248>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00249> *%-----------------|-------------------------------------------------------|
00250> ADD HYD           IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
00251> *%-----------------|-------------------------------------------------------|
00252> ROUTE RESERVOIR    IDout=[1],   NHYD=["SWM1"],   IDin=[3],
00253>                    RDT=[1](min),
00254>                          TABLE of ( OUTFLOW-STORAGE ) values
00255>                                (cms) - (ha-m)
00256>                               [   0.0 ,   0.0 ]
00257>                               [   0.0097    ,    0.1406  ]
00258>                               [   0.0352    ,    0.3212  ]
00259>                               [   0.0764    ,    0.5018  ]
00260>                               [   0.0986    ,    0.6823  ]
00261>                               [   0.1547    ,    0.8629  ]
00262>                               [   0.3283    ,    1.0435  ]
00263>                               [   0.5673    ,    1.2430  ]
00264>                               [   0.8560    ,    1.4426  ]
00265>                               [   1.1868    ,    1.6421  ]
00266>                               [   1.5548    ,    1.8417  ]
00267>                               [   1.9562    ,    2.0412  ]
00268>                               [   2.3891    ,    2.2712  ]
00269>                               [   2.8505    ,    2.5013  ]
00270>                               [   3.3385    ,    2.7313  ]
```

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00271>                                  [   3.8521    ,    2.9614  ]
00272>                                  [   4.3895    ,    3.1914  ]
00273>                                  [   5.8341    ,    3.8362  ]
00274>                                  [   -1    ,   -1   ]  (max twenty pts)
00275>                          IDovf=[2], NHYDovf=["Spillflow"]
00276> *%-----------------|-------------------------------------------------------|
00277> ADD HYD            IDsum=[4], NHYD=["Pond 2yr"], IDs to add=[1+2]
00278> *%-----------------|-------------------------------------------------------|
00279> SAVE HYD           ID=[4],   # OF PCYCLES=[1],   ICASEsh=[-1]
00280>                    HYD_FILENAME=["Pond2yr"]
00281>                    HYD_COMMENT=["Pond2yr"]
00282> *%-----------------|-------------------------------------------------------|
00283> CALIB NASHYD       ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
00284>                    DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
00285>                    N=[3], TP=[0.2]hrs,
00286>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00287> *%-----------------|-------------------------------------------------------|
00288> CALIB NASHYD       ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
00289>                    DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
00290>                    N=[3], TP=[0.15]hrs,
00291>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00292> *%-----------------|-------------------------------------------------------|
00293> CALIB NASHYD       ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
00294>                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
00295>                    N=[3], TP=[0.32]hrs,
00296>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00297> *%-----------------|-------------------------------------------------------|
00298> CALIB STANDHYD     ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
00299>                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
00300>                    SCS curve number CN=[79],
00301>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00302>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00303>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00304>                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
00305>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00306> *%-----------------|-------------------------------------------------------|
00307> ADD HYD            IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
00308> *%-----------------|-------------------------------------------------------|
00309> CALIB STANDHYD     ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
00310>                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
00311>                    SCS curve number CN=[79],
00312>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00313>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00314>                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
00315>                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
00316>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00317> *%-----------------|-------------------------------------------------------|
00318> CALIB NASHYD       ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
00319>                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
00320>                    N=[3], TP=[0.09]hrs,
00321>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00322> *%-----------------|-------------------------------------------------------|
00323> ADD HYD            IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
00324> *%-----------------|-------------------------------------------------------|
00325> *#*****************************************************************
00326> *#**********************5 year SCS 24HR HII Storm**********************
00327> *#*****************************************************************
00328> *%-----------------|-------------------------------------------------------|
00329> MASS STORM         PTOTAL=[62.4](mm), CSDT=[1](min),
00330>                    CURVE_FILENAME=["SCS24HII.mst"]
00331> *%-----------------|-------------------------------------------------------|
00332> CALIB NASHYD       ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
00333>                    DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
00334>                    N=[3], TP=[0.42]hrs,
00335>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00336> *%-----------------|-------------------------------------------------------|
00337> ROUTE CHANNEL      IDout=[2], NHYD=["BCreek1"], IDin=[1],
00338>                    RDT=[1](min),
00339>                    CHLGTH=[422](m),   CHSLOPE=[1.3](%),
00340>                                       FPSLOPE=[1.3](%),
00341>                    SECNUM=[1.1],      NSEG=[3]
00342>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00343>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00344>                                                   [1.75,1]
00345>                                                   [3.25,1]
00346>                                                   [5,3]
00347> *%-----------------|-------------------------------------------------------|
00348> CALIB NASHYD       ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00349>                    DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
00350>                    N=[3], TP=[0.59]hrs,
00351>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00352> *%-----------------|-------------------------------------------------------|
00353> ADD HYD            IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00354> *%-----------------|-------------------------------------------------------|
00355> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00356>                    PDIAM=[900](mm), PLNGTH=[162](m),
00357>                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00358>                    RDT=[1](min)
00359> *%-----------------|-------------------------------------------------------|
00360> CALIB NASHYD       ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00361>                    DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
00362>                    N=[3], TP=[0.58]hrs,
00363>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00364> *%-----------------|-------------------------------------------------------|
00365> ROUTE CHANNEL      IDout=[3], NHYD=["Overland1"], IDin=[2],
00366>                    RDT=[1](min),
00367>                    CHLGTH=[676](m),   CHSLOPE=[2.6](%),
00368>                                       FPSLOPE=[2.6](%),
00369>                    SECNUM=[1.1],      NSEG=[3]
00370>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00371>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00372>                                                   [1000,1.7]
00373>                                                   [1001,1.4]
00374>                                                   [1002,1.7]
00375>                                                   [2000,2]
00376> *%-----------------|-------------------------------------------------------|
00377> CALIB NASHYD       ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00378>                    DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
00379>                    N=[3], TP=[0.53]hrs,
00380>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00381> *%-----------------|-------------------------------------------------------|
00382> ADD HYD            IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00383> *%-----------------|-------------------------------------------------------|
00384> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek2"], IDin=[2],
00385>                    RDT=[1](min),
00386>                    CHLGTH=[261](m),   CHSLOPE=[2.3](%),
00387>                                       FPSLOPE=[2.3](%),
00388>                    SECNUM=[1.1],      NSEG=[3]
00389>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00390>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00391>                                                   [1.75,1]
00392>                                                   [3.25,1]
00393>                                                   [5,3]
00394> *%-----------------|-------------------------------------------------------|
00395> ADD HYD            IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
00396> *%-----------------|-------------------------------------------------------|
00397> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek3"], IDin=[2],
00398>                    RDT=[1](min),
00399>                    CHLGTH=[204](m),   CHSLOPE=[3](%),
00400>                                       FPSLOPE=[3](%),
00401>                    SECNUM=[1.1],      NSEG=[3]
00402>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00403>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00404>                                                   [1.75,1]
00405>                                                   [3.25,1]
00406>                                                   [5,3]
00407> *%-----------------|-------------------------------------------------------|
00408> CALIB NASHYD       ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
00409>                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
00410>                    N=[3], TP=[0.48]hrs,
00411>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00412> *%-----------------|-------------------------------------------------------|
00413> CALIB NASHYD       ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
00414>                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
00415>                    N=[3], TP=[0.62]hrs,
00416>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00417> *%-----------------|-------------------------------------------------------|
00418> CALIB NASHYD       ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
00419>                    DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
00420>                    N=[3], TP=[0.75]hrs,
00421>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00422> *%-----------------|-------------------------------------------------------|
00423> CALIB STANDHYD     ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
00424>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00425>                    SCS curve number CN=[49],
00426>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00427>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00428>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00429>                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
00430>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00431> *%-----------------|-------------------------------------------------------|
00432> ADD HYD            IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
00433> *%-----------------|-------------------------------------------------------|
00434> ROUTE CHANNEL      IDout=[1], NHYD=["BCreek4"], IDin=[6],
00435>                    RDT=[1](min),
00436>                    CHLGTH=[647](m),   CHSLOPE=[3](%),
00437>                                       FPSLOPE=[3](%),
00438>                    SECNUM=[1.1],      NSEG=[3]
00439>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00440>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00441>                                                   [1.75,1]
00442>                                                   [3.25,1]
00443>                                                   [5,3]
00444> *%-----------------|-------------------------------------------------------|
00445> CALIB NASHYD       ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
00446>                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
00447>                    N=[3], TP=[0.72]hrs,
00448>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00449> *%-----------------|-------------------------------------------------------|
00450> ADD HYD            IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
00451> *%-----------------|-------------------------------------------------------|
00452> CALIB NASHYD       ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
00453>                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
00454>                    N=[3], TP=[0.23]hrs,
00455>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00456> *%-----------------|-------------------------------------------------------|
00457> ROUTE CHANNEL      IDout=[2], NHYD=["Overland2"], IDin=[1],
00458>                    RDT=[1](min),
00459>                    CHLGTH=[550](m),   CHSLOPE=[2.3](%),
00460>                                       FPSLOPE=[2.3](%),
00461>                    SECNUM=[1.1],      NSEG=[3]
00462>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00463>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00464>                                                   [1000,1.7]
00465>                                                   [1001,1.4]
00466>                                                   [1002,1.7]
00467>                                                   [2000,2]
00468> *%-----------------|-------------------------------------------------------|
00469> CALIB NASHYD       ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
00470>                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
00471>                    N=[3], TP=[0.47]hrs,
00472>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00473>
00474> *%-----------------|-------------------------------------------------------|
00475> ADD HYD            IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
00476> *%-----------------|-------------------------------------------------------|
00477> ROUTE CHANNEL      IDout=[8], NHYD=["Overland3"], IDin=[5],
00478>                    RDT=[1](min),
00479>                    CHLGTH=[500](m),   CHSLOPE=[4.0](%),
00480>                                       FPSLOPE=[4.0](%),
00481>                    SECNUM=[1.1],      NSEG=[3]
00482>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00483>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00484>                                                   [1000,1.7]
00485>                                                   [1001,1.4]
00486>                                                   [1002,1.7]
00487>                                                   [2000,2]
00488> *%-----------------|-------------------------------------------------------|
00489> CALIB NASHYD       ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
00490>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
00491>                    N=[3], TP=[0.45]hrs,
00492>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00493> *%-----------------|-------------------------------------------------------|
00494> ROUTE CHANNEL      IDout=[2], NHYD=["Overland4"], IDin=[1],
00495>                    RDT=[1](min),
00496>                    CHLGTH=[775](m),   CHSLOPE=[2.4](%),
00497>                                       FPSLOPE=[2.4](%),
00498>                    SECNUM=[1.1],      NSEG=[3]
00499>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00500>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00501>                                                   [1000,1.7]
00502>                                                   [1001,1.4]
00503>                                                   [1002,1.7]
00504>                                                   [2000,2]
00505> *%-----------------|-------------------------------------------------------|
00506> CALIB NASHYD       ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
00507>                    DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
00508>                    N=[3], TP=[0.44]hrs,
00509>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00510> *%-----------------|-------------------------------------------------------|
00511> CALIB NASHYD       ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
00512>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
00513>                    N=[3], TP=[0.58]hrs,
00514>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00515> *%-----------------|-------------------------------------------------------|
00516> ADD HYD            IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
00517> *%-----------------|-------------------------------------------------------|
00518> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
00519>                    PDIAM=[750](mm), PLNGTH=[450](m),
00520>                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
00521>                    RDT=[1](min)
00522> *%-----------------|-------------------------------------------------------|
00523> CALIB NASHYD       ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
00524>                    DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
00525>                    N=[3], TP=[0.47]hrs,
00526>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
00527> *%-----------------|-------------------------------------------------------|
00528> ROUTE PIPE         PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
00529>                    PDIAM=[525](mm), PLNGTH=[435](m),
00530>                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
00531>                    RDT=[1](min)
00532> *%-----------------|-------------------------------------------------------|
00533> CALIB STANDHYD     ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
00534>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00535>                    SCS curve number CN=[79],
00536>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00537>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00538>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00539>                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
00540>                    RAINFALL=[  ,   ,   ,   ,  ](mm/hr),  END=-1
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*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%-----------------|--------------------------------------------------------------|
ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                     PDIAM=[750](mm), PLNGTH=[305](m),
                     PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                     RDT=[1](min)
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                     DWF=[0](cms), CN/C=[91.7], IA=[2.99](mm),
                     N=[3], TP=[0.05]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%-----------------|--------------------------------------------------------------|
ROUTE RESERVOIR      IDout=[1],   NHYD=["SWM1"],   IDin=[3],
                     RDT=[1](min),
                           TABLE of ( OUTFLOW-STORAGE ) values
                                      (cms) - (ha-m)
                                   [   0.0 ,   0.0 ]
                                   [   0.0097   ,   0.1406  ]
                                   [   0.0352   ,   0.3212  ]
                                   [   0.0764   ,   0.5018  ]
                                   [   0.0986   ,   0.6823  ]
                                   [   0.1547   ,   0.8629  ]
                                   [   0.3283   ,   1.0435  ]
                                   [   0.5673   ,   1.2430  ]
                                   [   0.8560   ,   1.4426  ]
                                   [   1.1868   ,   1.6421  ]
                                   [   1.5548   ,   1.8417  ]
                                   [   1.9562   ,   2.0412  ]
                                   [   2.3891   ,   2.2712  ]
                                   [   2.8505   ,   2.5013  ]
                                   [   3.3385   ,   2.7313  ]
                                   [   3.8521   ,   2.9614  ]
                                   [   4.3895   ,   3.1914  ]
                                   [   5.8341   ,   3.8362  ]
                                   [   -1  ,  -1  ]  (max twenty pts)
                           IDovf=[2], NHYDovf=["Spillflow"]
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Pond 5yr"], IDs to add=[1+2]
*%-----------------|--------------------------------------------------------------|
SAVE HYD             ID=[4],   # OF PCYCLES=[1],   ICASEsh=[-1]
                     HYD_FILENAME=["Pond5yr"]
                     HYD_COMMENT=["Pond5yr"]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
                     DWF=[0](cms), CN/C=[80.8], IA=[5.94](mm),
                     N=[3], TP=[0.2]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                     DWF=[0](cms), CN/C=[76.2], IA=[7.38](mm),
                     N=[3], TP=[0.15]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                     DWF=[0](cms), CN/C=[76], IA=[8](mm),
                     N=[3], TP=[0.32]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
CALIB STANDHYD       ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                     XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[79],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                          LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ , , , , ](mm/hr) , END=-1
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%-----------------|--------------------------------------------------------------|
CALIB STANDHYD       ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                     XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[79],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                          LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ , , , , ](mm/hr) , END=-1
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                     DWF=[0](cms), CN/C=[76], IA=[8](mm),
                     N=[3], TP=[0.09]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%-----------------|--------------------------------------------------------------|
*#*****************************************************************************
*#*************************10 year SCS 24HR HII Storm***************************
*#*****************************************************************************
*%-----------------|--------------------------------------------------------------|
MASS STORM           PTOTAL=[72.0](mm), CSDT=[1](min),
                     CURVE_FILENAME=["SCS24HII.mst"]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                     DWF=[0](cms), CN/C=[74.2], IA=[9.59](mm),
                     N=[3], TP=[0.42]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["BCreek1"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                       FPSLOPE=[1.3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                     DWF=[0](cms), CN/C=[65.7], IA=[9.61](mm),
                     N=[3], TP=[0.59]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%-----------------|--------------------------------------------------------------|
ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                     PDIAM=[900](mm), PLNGTH=[162](m),
                     PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                     RDT=[1](min)
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                     DWF=[0](cms), CN/C=[74], IA=[9.58](mm),
                     N=[3], TP=[0.58]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["Overland1"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                       FPSLOPE=[2.6](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201X"], DT=[1]min, AREA=[9.77](ha),
                     DWF=[0](cms), CN/C=[71], IA=[9.89](mm),
                     N=[3], TP=[0.53]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*%-----------------|--------------------------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["BCreek2"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[261](m),  CHSLOPE=[2.3](%),
                                       FPSLOPE=[2.3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*%-----------------|--------------------------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["BCreek3"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[204](m),  CHSLOPE=[3](%),
                                       FPSLOPE=[3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                     DWF=[0](cms), CN/C=[46.2], IA=[7.03](mm),
                     N=[3], TP=[0.48]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                     DWF=[0](cms), CN/C=[67.6], IA=[5.19](mm),
                     N=[3], TP=[0.62]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                     DWF=[0](cms), CN/C=[81.9], IA=[4.55](mm),
                     N=[3], TP=[0.75]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
CALIB STANDHYD       ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[49],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                          LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ , , , , ](mm/hr) , END=-1
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*%-----------------|--------------------------------------------------------------|
ROUTE CHANNEL        IDout=[1], NHYD=["BCreek4"], IDin=[6],
                     RDT=[1](min),
                     CHLGTH=[647](m),  CHSLOPE=[3](%),
                                       FPSLOPE=[3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                     DWF=[0](cms), CN/C=[78.4], IA=[5.5](mm),
                     N=[3], TP=[0.72]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                     DWF=[0](cms), CN/C=[73.6], IA=[9.74](mm),
                     N=[3], TP=[0.23]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["Overland2"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                       FPSLOPE=[2.3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                     DWF=[0](cms), CN/C=[73.9], IA=[9.53](mm),
                     N=[3], TP=[0.47]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1

*%-----------------|--------------------------------------------------------------|
ADD HYD              IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%-----------------|--------------------------------------------------------------|
ROUTE CHANNEL        IDout=[8], NHYD=["Overland3"], IDin=[5],
                     RDT=[1](min),
                     CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                       FPSLOPE=[4.0](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*%-----------------|--------------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                     DWF=[0](cms), CN/C=[74.8], IA=[8.83](mm),
                     N=[3], TP=[0.45]hrs,
                     RAINFALL=[ , , , , ](mm/hr), END=-1
*%-----------------|--------------------------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["Overland4"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[775](m),  CHSLOPE=[2.4](%),
                                       FPSLOPE=[2.4](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
```

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00811> *%----------|---------------------------------------------------------|
00812> CALIB NASHYD       ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
00813>                    DWF=[0](cms),  CN/C=[73.0],  IA=[7.41](mm),
00814>                    N=[3], TP=[0.44]hrs,
00815>                    RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00816> *%----------|---------------------------------------------------------|
00817> CALIB NASHYD       ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
00818>                    DWF=[0](cms),  CN/C=[74.8],  IA=[8.84](mm),
00819>                    N=[3], TP=[0.58]hrs,
00820>                    RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00821> *%----------|---------------------------------------------------------|
00822> ADD HYD           IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
00823> *%----------|---------------------------------------------------------|
00824> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
00825>                    PDIAM=[750](mm), PLNGTH=[450](m),
00826>                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
00827>                    RDT=[1](min)
00828> *%----------|---------------------------------------------------------|
00829> CALIB NASHYD       ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
00830>                    DWF=[0](cms),  CN/C=[43.9],  IA=[6.5](mm),
00831>                    N=[3], TP=[0.47]hrs,
00832>                    RAINFALL=[ ,  ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00833> *%----------|---------------------------------------------------------|
00834> ROUTE PIPE        PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
00835>                    PDIAM=[525](mm), PLNGTH=[435](m),
00836>                    PROUGH=[0.013], PSLOPE=[0.011](m/m), IDin=[2],
00837>                    RDT=[1](min)
00838> *%----------|---------------------------------------------------------|
00839> CALIB STANDHYD     ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
00840>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00841>                    SCS curve number CN=[79],
00842>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00843>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00844>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00845>                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
00846>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr) ,  END=-1
00847> *%----------|---------------------------------------------------------|
00848> ADD HYD           IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
00849> *%----------|---------------------------------------------------------|
00850> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
00851>                    PDIAM=[750](mm), PLNGTH=[305](m),
00852>                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
00853>                    RDT=[1](min)
00854> *%----------|---------------------------------------------------------|
00855> ADD HYD           IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
00856> *%----------|---------------------------------------------------------|
00857> CALIB NASHYD       ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
00858>                    DWF=[0](cms),  CN/C=[91.7],  IA=[2.99](mm),
00859>                    N=[3], TP=[0.05]hrs,
00860>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00861> *%----------|---------------------------------------------------------|
00862> ADD HYD           IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
00863> *%----------|---------------------------------------------------------|
00864> ROUTE RESERVOIR   IDout=[1],   NHYD=["SWM1"],   IDin=[3],
00865>                    RDT=[1](min),
00866>                              TABLE of ( OUTFLOW-STORAGE ) values
00867>                                    (cms)  -  (ha-m)
00868>                                   [  0.0  ,  0.0  ]
00869>                                   [  0.0097   ,   0.1406  ]
00870>                                   [  0.0352   ,   0.3212  ]
00871>                                   [  0.0764   ,   0.5018  ]
00872>                                   [  0.0986   ,   0.6823  ]
00873>                                   [  0.1547   ,   0.8629  ]
00874>                                   [  0.3283   ,   1.0435  ]
00875>                                   [  0.5673   ,   1.2430  ]
00876>                                   [  0.8560   ,   1.4426  ]
00877>                                   [  1.1868   ,   1.6421  ]
00878>                                   [  1.5548   ,   1.8417  ]
00879>                                   [  1.9562   ,   2.0412  ]
00880>                                   [  2.3891   ,   2.2712  ]
00881>                                   [  2.8505   ,   2.5013  ]
00882>                                   [  3.3385   ,   2.7313  ]
00883>                                   [  3.8521   ,   2.9614  ]
00884>                                   [  4.3895   ,   3.1914  ]
00885>                                   [  5.8341   ,   3.8362  ]
00886>                                   [  -1   ,  -1  ]  (max twenty pts)
00887>                         IDovf=[2], NHYDovf=["Spillflow"]
00888> *%----------|---------------------------------------------------------|
00889> ADD HYD           IDsum=[4], NHYD=["Pond 10yr"], IDs to add=[1+2]
00890> *%----------|---------------------------------------------------------|
00891> SAVE HYD          ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
00892>                    HYD_FILENAME=["Pond10yr"]
00893>                    HYD_COMMENT=["Pond10yr"]
00894> *%----------|---------------------------------------------------------|
00895> CALIB NASHYD       ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
00896>                    DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
00897>                    N=[3], TP=[0.2]hrs,
00898>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00899> *%----------|---------------------------------------------------------|
00900> CALIB NASHYD       ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
00901>                    DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
00902>                    N=[3], TP=[0.15]hrs,
00903>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00904> *%----------|---------------------------------------------------------|
00905> CALIB NASHYD       ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
00906>                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
00907>                    N=[3], TP=[0.32]hrs,
00908>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00909> *%----------|---------------------------------------------------------|
00910> CALIB STANDHYD     ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
00911>                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
00912>                    SCS curve number CN=[79],
00913>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00914>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00915>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00916>                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
00917>                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr) ,  END=-1
00918> *%----------|---------------------------------------------------------|
00919> ADD HYD           IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
00920> *%----------|---------------------------------------------------------|
00921> CALIB STANDHYD     ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
00922>                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
00923>                    SCS curve number CN=[79],
00924>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00925>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00926>                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
00927>                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
00928>                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr) ,  END=-1
00929> *%----------|---------------------------------------------------------|
00930> CALIB NASHYD       ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
00931>                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
00932>                    N=[3], TP=[0.09]hrs,
00933>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00934> *%----------|---------------------------------------------------------|
00935> ADD HYD           IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
00936> *%----------|---------------------------------------------------------|
00937> *#*************************************************************************
00938> *#**********************25 year SCS 24HR HII Storm**************************
00939> *#*************************************************************************
00940> *%----------|---------------------------------------------------------|
00941> MASS STORM       PTOTAL=[86.4](mm), CSDT=[1](min),
00942>                    CURVE_FILENAME=["SCS24HII.mst"]
00943> *%----------|---------------------------------------------------------|
00944> CALIB NASHYD       ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
00945>                    DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
00946>                    N=[3], TP=[0.42]hrs,
00947>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00948> *%----------|---------------------------------------------------------|
00949> ROUTE CHANNEL     IDout=[2], NHYD=["BCreek1"], IDin=[1],
00950>                    RDT=[1](min),
00951>                    CHLGTH=[422](m),  CHSLOPE=[1.3](%),
00952>                                        FPSLOPE=[1.3](%),
00953>                    SECNUM=[1.1],       NSEG=[3]
00954>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00955>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00956>                                                  [1.75,1]
00957>                                                  [3.25,1]
00958>                                                  [5,3]
00959> *%----------|---------------------------------------------------------|
00960> CALIB NASHYD       ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00961>                    DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
00962>                    N=[3], TP=[0.59]hrs,
00963>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00964> *%----------|---------------------------------------------------------|
00965> ADD HYD           IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00966> *%----------|---------------------------------------------------------|
00967> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00968>                    PDIAM=[900](mm), PLNGTH=[162](m),
00969>                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00970>                    RDT=[1](min)
00971> *%----------|---------------------------------------------------------|
00972> CALIB NASHYD       ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00973>                    DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
00974>                    N=[3], TP=[0.58]hrs,
00975>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00976> *%----------|---------------------------------------------------------|
00977> ROUTE CHANNEL     IDout=[3], NHYD=["Overland1"], IDin=[2],
00978>                    RDT=[1](min),
00979>                    CHLGTH=[676](m),  CHSLOPE=[2.6](%),
00980>                                        FPSLOPE=[2.6](%),
00981>                    SECNUM=[1.1],       NSEG=[3]
00982>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00983>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00984>                                                  [1000,1.7]
00985>                                                  [1001,1.4]
00986>                                                  [1002,1.7]
00987>                                                  [2000,2]
00988> *%----------|---------------------------------------------------------|
00989> CALIB NASHYD       ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00990>                    DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
00991>                    N=[3], TP=[0.53]hrs,
00992>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00993> *%----------|---------------------------------------------------------|
00994> ADD HYD           IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00995> *%----------|---------------------------------------------------------|
00996> ROUTE CHANNEL     IDout=[3], NHYD=["BCreek2"], IDin=[2],
00997>                    RDT=[1](min),
00998>                    CHLGTH=[261](m),  CHSLOPE=[2.3](%),
00999>                                        FPSLOPE=[2.3](%),
01000>                    SECNUM=[1.1],       NSEG=[3]
01001>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01002>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01003>                                                  [1.75,1]
01004>                                                  [3.25,1]
01005>                                                  [5,3]
01006> *%----------|---------------------------------------------------------|
01007> ADD HYD           IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
01008> *%----------|---------------------------------------------------------|
01009> ROUTE CHANNEL     IDout=[3], NHYD=["BCreek3"], IDin=[2],
01010>                    RDT=[1](min),
01011>                    CHLGTH=[204](m),  CHSLOPE=[3](%),
01012>                                        FPSLOPE=[3](%),
01013>                    SECNUM=[1.1],       NSEG=[3]
01014>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01015>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01016>                                                  [1.75,1]
01017>                                                  [3.25,1]
01018>                                                  [5,3]
01019> *%----------|---------------------------------------------------------|
01020> CALIB NASHYD       ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
01021>                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
01022>                    N=[3], TP=[0.48]hrs,
01023>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
01024> *%----------|---------------------------------------------------------|
01025> CALIB NASHYD       ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
01026>                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
01027>                    N=[3], TP=[0.62]hrs,
01028>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
01029> *%----------|---------------------------------------------------------|
01030> CALIB NASHYD       ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
01031>                    DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
01032>                    N=[3], TP=[0.75]hrs,
01033>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
01034> *%----------|---------------------------------------------------------|
01035> CALIB STANDHYD     ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
01036>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01037>                    SCS curve number CN=[49],
01038>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01039>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01040>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01041>                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
01042>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr) ,  END=-1
01043> *%----------|---------------------------------------------------------|
01044> ADD HYD           IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
01045> *%----------|---------------------------------------------------------|
01046> ROUTE CHANNEL     IDout=[1], NHYD=["BCreek4"], IDin=[6],
01047>                    RDT=[1](min),
01048>                    CHLGTH=[647](m),  CHSLOPE=[3](%),
01049>                                        FPSLOPE=[3](%),
01050>                    SECNUM=[1.1],       NSEG=[3]
01051>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01052>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01053>                                                  [1.75,1]
01054>                                                  [3.25,1]
01055>                                                  [5,3]
01056> *%----------|---------------------------------------------------------|
01057> CALIB NASHYD       ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
01058>                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
01059>                    N=[3], TP=[0.72]hrs,
01060>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
01061> *%----------|---------------------------------------------------------|
01062> ADD HYD           IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
01063> *%----------|---------------------------------------------------------|
01064> CALIB NASHYD       ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
01065>                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
01066>                    N=[3], TP=[0.23]hrs,
01067>                    RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
01068> *%----------|---------------------------------------------------------|
01069> ROUTE CHANNEL     IDout=[2], NHYD=["Overland2"], IDin=[1],
01070>                    RDT=[1](min),
01071>                    CHLGTH=[550](m),  CHSLOPE=[2.3](%),
01072>                                        FPSLOPE=[2.3](%),
01073>                    SECNUM=[1.1],       NSEG=[3]
01074>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01075>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
01076>                                                  [1000,1.7]
01077>                                                  [1001,1.4]
01078>                                                  [1002,1.7]
01079>                                                  [2000,2]
01080> *%----------|---------------------------------------------------------|
```

```
CALIB NASHYD            ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                        DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
                        N=[3], TP=[0.47]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1

*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%-----------------|------------------------------------------------------------|
ROUTE CHANNEL           IDout=[8], NHYD=["Overland3"], IDin=[5],
                        RDT=[1](min),
                        CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                          FPSLOPE=[4.0](%),
                        SECNUM=[1.1],         NSEG=[3]
                        ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                        ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                       [1000,1.7]
                                                       [1001,1.4]
                                                       [1002,1.7]
                                                       [2000,2]
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                        DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
                        N=[3], TP=[0.45]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ROUTE CHANNEL           IDout=[2], NHYD=["Overland4"], IDin=[1],
                        RDT=[1](min),
                        CHLGTH=[775](m),  CHSLOPE=[2.4](%),
                                          FPSLOPE=[2.4](%),
                        SECNUM=[1.1],         NSEG=[3]
                        ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                        ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                       [1000,1.7]
                                                       [1001,1.4]
                                                       [1002,1.7]
                                                       [2000,2]
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
                        DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
                        N=[3], TP=[0.44]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
                        DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
                        N=[3], TP=[0.58]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
*%-----------------|------------------------------------------------------------|
ROUTE PIPE              PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                        PDIAM=[750](mm), PLNGTH=[450](m),
                        PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                        RDT=[1](min)
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                        DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
                        N=[3], TP=[0.47]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ROUTE PIPE              PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                        PDIAM=[525](mm), PLNGTH=[435](m),
                        PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                        RDT=[1](min)
*%-----------------|------------------------------------------------------------|
CALIB STANDHYD          ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                        XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                        SCS curve number CN=[79],
                        Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                             LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                        Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                             LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                        RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%-----------------|------------------------------------------------------------|
ROUTE PIPE              PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                        PDIAM=[750](mm), PLNGTH=[305](m),
                        PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                        RDT=[1](min)
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                        DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                        N=[3], TP=[0.05]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%-----------------|------------------------------------------------------------|
ROUTE RESERVOIR         IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                        RDT=[1](min),
                              TABLE of ( OUTFLOW-STORAGE ) values
                                         (cms) - (ha-m)
                                       [  0.0 ,   0.0 ]
                                       [  0.0097   ,   0.1406  ]
                                       [  0.0352   ,   0.3212  ]
                                       [  0.0764   ,   0.5018  ]
                                       [  0.0986   ,   0.6823  ]
                                       [  0.1547   ,   0.8629  ]
                                       [  0.3283   ,   1.0435  ]
                                       [  0.5673   ,   1.2430  ]
                                       [  0.8560   ,   1.4426  ]
                                       [  1.1868   ,   1.6421  ]
                                       [  1.5548   ,   1.8417  ]
                                       [  1.9562   ,   2.0412  ]
                                       [  2.3891   ,   2.2712  ]
                                       [  2.8505   ,   2.5013  ]
                                       [  3.3385   ,   2.7313  ]
                                       [  3.8521   ,   2.9614  ]
                                       [  4.3895   ,   3.1914  ]
                                       [  5.8341   ,   3.8362  ]
                                       [   -1   ,   -1   ]   (max twenty pts)
                              IDovf=[2], NHYDovf=["Spillflow"]
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[4], NHYD=["Pond 25yr"], IDs to add=[1+2]
*%-----------------|------------------------------------------------------------|
SAVE HYD                ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                        HYD_FILENAME=["Pond25yr"]
                        HYD_COMMENT=["Pond25yr"]
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
                        DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
                        N=[3], TP=[0.2]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                        DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                        N=[3], TP=[0.15]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                        DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                        N=[3], TP=[0.32]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
CALIB STANDHYD          ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                        XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                        SCS curve number CN=[79],
                        Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                             LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                        Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                             LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                        RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%-----------------|------------------------------------------------------------|
CALIB STANDHYD          ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                        XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                        SCS curve number CN=[79],
                        Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                             LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                        Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                             LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                        RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                        DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                        N=[3], TP=[0.09]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%-----------------|------------------------------------------------------------|
*#******************************************************************************
*#************************50 year SCS 24HR HII Storm*****************************
*#******************************************************************************
*%-----------------|------------------------------------------------------------|
MASS STORM              PTOTAL=[96.0](mm), CSDT=[1](min),
                        CURVE_FILENAME=["SCS24HII.mst"]
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                        DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                        N=[3], TP=[0.42]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ROUTE CHANNEL           IDout=[2], NHYD=["BCreek1"], IDin=[1],
                        RDT=[1](min),
                        CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                          FPSLOPE=[1.3](%),
                        SECNUM=[1.1],         NSEG=[3]
                        ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                        ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                       [1.75,1]
                                                       [3.25,1]
                                                       [5,3]
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                        DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                        N=[3], TP=[0.59]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%-----------------|------------------------------------------------------------|
ROUTE PIPE              PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                        PDIAM=[900](mm), PLNGTH=[162](m),
                        PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                        RDT=[1](min)
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                        DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                        N=[3], TP=[0.58]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ROUTE CHANNEL           IDout=[3], NHYD=["Overland1"], IDin=[2],
                        RDT=[1](min),
                        CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                          FPSLOPE=[2.6](%),
                        SECNUM=[1.1],         NSEG=[3]
                        ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                        ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                       [1000,1.7]
                                                       [1001,1.4]
                                                       [1002,1.7]
                                                       [2000,2]
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                        DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
                        N=[3], TP=[0.53]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*%-----------------|------------------------------------------------------------|
ROUTE CHANNEL           IDout=[3], NHYD=["BCreek2"], IDin=[2],
                        RDT=[1](min),
                        CHLGTH=[261](m),  CHSLOPE=[2.3](%),
                                          FPSLOPE=[2.3](%),
                        SECNUM=[1.1],         NSEG=[3]
                        ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                        ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                       [1.75,1]
                                                       [3.25,1]
                                                       [5,3]
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*%-----------------|------------------------------------------------------------|
ROUTE CHANNEL           IDout=[3], NHYD=["BCreek3"], IDin=[2],
                        RDT=[1](min),
                        CHLGTH=[204](m),  CHSLOPE=[3](%),
                                          FPSLOPE=[3](%),
                        SECNUM=[1.1],         NSEG=[3]
                        ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                        ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                       [1.75,1]
                                                       [3.25,1]
                                                       [5,3]
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                        DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
                        N=[3], TP=[0.48]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                        DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                        N=[3], TP=[0.62]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
CALIB NASHYD            ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                        DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
                        N=[3], TP=[0.75]hrs,
                        RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|------------------------------------------------------------|
CALIB STANDHYD          ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                        XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                        SCS curve number CN=[49],
                        Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                             LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                        Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                             LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                        RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|------------------------------------------------------------|
ADD HYD                 IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
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01351> *%-----------------|-------------------------------------------------------------|
01352> ROUTE CHANNEL       IDout=[1], NHYD=["BCreek4"], IDin=[6],
01353>                     RDT=[1](min),
01354>                     CHLGTH=[647](m),  CHSLOPE=[3](%),
01355>                                       FPSLOPE=[3](%),
01356>                     SECNUM=[1.1],     NSEG=[3]
01357>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01358>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
01359>                                                    [1.75,1]
01360>                                                    [3.25,1]
01361>                                                    [5,3]
01362> *%-----------------|-------------------------------------------------------------|
01363> CALIB NASHYD       ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
01364>                     DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
01365>                     N=[3], TP=[0.72]hrs,
01366>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01367> *%-----------------|-------------------------------------------------------------|
01368> ADD HYD           IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
01369> *%-----------------|-------------------------------------------------------------|
01370> CALIB NASHYD       ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
01371>                     DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
01372>                     N=[3], TP=[0.23]hrs,
01373>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01374> *%-----------------|-------------------------------------------------------------|
01375> ROUTE CHANNEL      IDout=[2], NHYD=["Overland2"], IDin=[1],
01376>                     RDT=[1](min),
01377>                     CHLGTH=[550](m),  CHSLOPE=[2.3](%),
01378>                                       FPSLOPE=[2.3](%),
01379>                     SECNUM=[1.1],     NSEG=[3]
01380>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01381>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
01382>                                                    [1000,1.7]
01383>                                                    [1001,1.4]
01384>                                                    [1002,1.7]
01385>                                                    [2000,2]
01386> *%-----------------|-------------------------------------------------------------|
01387> CALIB NASHYD       ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
01388>                     DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
01389>                     N=[3], TP=[0.47]hrs,
01390>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01391>
01392> *%-----------------|-------------------------------------------------------------|
01393> ADD HYD           IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
01394> *%-----------------|-------------------------------------------------------------|
01395> ROUTE CHANNEL      IDout=[8], NHYD=["Overland3"], IDin=[5],
01396>                     RDT=[1](min),
01397>                     CHLGTH=[500](m),  CHSLOPE=[4.0](%),
01398>                                       FPSLOPE=[4.0](%),
01399>                     SECNUM=[1.1],     NSEG=[3]
01400>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01401>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
01402>                                                    [1000,1.7]
01403>                                                    [1001,1.4]
01404>                                                    [1002,1.7]
01405>                                                    [2000,2]
01406> *%-----------------|-------------------------------------------------------------|
01407> CALIB NASHYD       ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
01408>                     DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
01409>                     N=[3], TP=[0.45]hrs,
01410>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01411> *%-----------------|-------------------------------------------------------------|
01412> ROUTE CHANNEL      IDout=[2], NHYD=["Overland4"], IDin=[1],
01413>                     RDT=[1](min),
01414>                     CHLGTH=[775](m),  CHSLOPE=[2.4](%),
01415>                                       FPSLOPE=[2.4](%),
01416>                     SECNUM=[1.1],     NSEG=[3]
01417>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01418>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
01419>                                                    [1000,1.7]
01420>                                                    [1001,1.4]
01421>                                                    [1002,1.7]
01422>                                                    [2000,2]
01423> *%-----------------|-------------------------------------------------------------|
01424> CALIB NASHYD       ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
01425>                     DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
01426>                     N=[3], TP=[0.44]hrs,
01427>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01428> *%-----------------|-------------------------------------------------------------|
01429> CALIB NASHYD       ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
01430>                     DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
01431>                     N=[3], TP=[0.58]hrs,
01432>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01433> *%-----------------|-------------------------------------------------------------|
01434> ADD HYD           IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
01435> *%-----------------|-------------------------------------------------------------|
01436> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
01437>                     PDIAM=[750](mm), PLNGTH=[450](m),
01438>                     PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
01439>                     RDT=[1](min)
01440> *%-----------------|-------------------------------------------------------------|
01441> CALIB NASHYD       ID=[2], NHYD=["201M"], DT=[1]min, AREA=[9.17](ha),
01442>                     DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
01443>                     N=[3], TP=[0.47]hrs,
01444>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01445> *%-----------------|-------------------------------------------------------------|
01446> ROUTE PIPE        PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
01447>                     PDIAM=[525](mm), PLNGTH=[435](m),
01448>                     PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
01449>                     RDT=[1](min)
01450> *%-----------------|-------------------------------------------------------------|
01451> CALIB STANDHYD     ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
01452>                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01453>                     SCS curve number CN=[79],
01454>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01455>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01456>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01457>                                          LGI=[289.83](m), MNI=[0.013], SCI=[0](m
01458>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01459> *%-----------------|-------------------------------------------------------------|
01460> ADD HYD           IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
01461> *%-----------------|-------------------------------------------------------------|
01462> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
01463>                     PDIAM=[750](mm), PLNGTH=[305](m),
01464>                     PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
01465>                     RDT=[1](min)
01466> *%-----------------|-------------------------------------------------------------|
01467> ADD HYD           IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
01468> *%-----------------|-------------------------------------------------------------|
01469> CALIB NASHYD       ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
01470>                     DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
01471>                     N=[3], TP=[0.05]hrs,
01472>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01473> *%-----------------|-------------------------------------------------------------|
01474> ADD HYD           IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
01475> *%-----------------|-------------------------------------------------------------|
01476> ROUTE RESERVOIR    IDout=[1],    NHYD=["SWM1"],  IDin=[3],
01477>                     RDT=[1](min),
01478>                          TABLE of ( OUTFLOW-STORAGE ) values
01479>                                   (cms) - (ha-m)
01480>                                [   0.0 ,   0.0 ]
01481>                                [   0.0097    ,    0.1406   ]
01482>                                [   0.0352    ,    0.3212   ]
01483>                                [   0.0764    ,    0.5018   ]
01484>                                [   0.0986    ,    0.6823   ]
01485>                                [   0.1547    ,    0.8629   ]

01486>                                [   0.3283    ,    1.0435   ]
01487>                                [   0.5673    ,    1.2430   ]
01488>                                [   0.8560    ,    1.4426   ]
01489>                                [   1.1868    ,    1.6421   ]
01490>                                [   1.5548    ,    1.8417   ]
01491>                                [   1.9562    ,    2.0412   ]
01492>                                [   2.3891    ,    2.2712   ]
01493>                                [   2.8505    ,    2.5013   ]
01494>                                [   3.3385    ,    2.7313   ]
01495>                                [   3.8521    ,    2.9614   ]
01496>                                [   4.3895    ,    3.1914   ]
01497>                                [   5.8341    ,    3.8362   ]
01498>                                [    -1  ,   -1  ]  (max twenty pts)
01499>                          IDovf=[2], NHYDovf=["Spillflow"]
01500> *%-----------------|-------------------------------------------------------------|
01501> ADD HYD           IDsum=[4], NHYD=["Pond 50yr"], IDs to add=[1+2]
01502> *%-----------------|-------------------------------------------------------------|
01503> SAVE HYD          ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
01504>                     HYD_FILENAME=["Pond50yr"]
01505>                     HYD_COMMENT=["Pond50yr"]
01506> *%-----------------|-------------------------------------------------------------|
01507> CALIB NASHYD       ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
01508>                     DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
01509>                     N=[3], TP=[0.2]hrs,
01510>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01511> *%-----------------|-------------------------------------------------------------|
01512> CALIB NASHYD       ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
01513>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
01514>                     N=[3], TP=[0.15]hrs,
01515>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01516> *%-----------------|-------------------------------------------------------------|
01517> CALIB NASHYD       ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
01518>                     DWF=[0](cms),  CN/C=[76], IA=[8](mm),
01519>                     N=[3], TP=[0.32]hrs,
01520>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01521> *%-----------------|-------------------------------------------------------------|
01522> CALIB STANDHYD     ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
01523>                     XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
01524>                     SCS curve number CN=[79],
01525>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01526>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01527>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01528>                                          LGI=[128.84](m), MNI=[0.013], SCI=[0](m
01529>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01530> *%-----------------|-------------------------------------------------------------|
01531> ADD HYD           IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
01532> *%-----------------|-------------------------------------------------------------|
01533> CALIB STANDHYD     ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
01534>                     XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
01535>                     SCS curve number CN=[79],
01536>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01537>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01538>                     Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
01539>                                          LGI=[147.42](m), MNI=[0.013], SCI=[0](m
01540>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01541> *%-----------------|-------------------------------------------------------------|
01542> CALIB NASHYD       ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
01543>                     DWF=[0](cms),  CN/C=[76], IA=[8](mm),
01544>                     N=[3], TP=[0.09]hrs,
01545>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01546> *%-----------------|-------------------------------------------------------------|
01547> ADD HYD           IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
01548> *%-----------------|-------------------------------------------------------------|
01549> *#*************************************************************************
01550> *#**********************100 year SCS 24HR HII Storm**************************
01551> *#*************************************************************************
01552> *%-----------------|-------------------------------------------------------------|
01553> MASS STORM        PTOTAL=[108.0](mm), CSDT=[1](min),
01554>                     CURVE_FILENAME=["SCS24HII.mat"]
01555> *%-----------------|-------------------------------------------------------------|
01556> CALIB NASHYD       ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
01557>                     DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
01558>                     N=[3], TP=[0.42]hrs,
01559>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01560> *%-----------------|-------------------------------------------------------------|
01561> ROUTE CHANNEL      IDout=[2], NHYD=["BCreek1"], IDin=[1],
01562>                     RDT=[1](min),
01563>                     CHLGTH=[422](m),  CHSLOPE=[1.3](%),
01564>                                       FPSLOPE=[1.3](%),
01565>                     SECNUM=[1.1],     NSEG=[3]
01566>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01567>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
01568>                                                    [1.75,1]
01569>                                                    [3.25,1]
01570>                                                    [5,3]
01571> *%-----------------|-------------------------------------------------------------|
01572> CALIB NASHYD       ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
01573>                     DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
01574>                     N=[3], TP=[0.59]hrs,
01575>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01576> *%-----------------|-------------------------------------------------------------|
01577> ADD HYD           IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
01578> *%-----------------|-------------------------------------------------------------|
01579> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
01580>                     PDIAM=[900](mm), PLNGTH=[162](m),
01581>                     PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
01582>                     RDT=[1](min)
01583> *%-----------------|-------------------------------------------------------------|
01584> CALIB NASHYD       ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
01585>                     DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
01586>                     N=[3], TP=[0.58]hrs,
01587>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01588> *%-----------------|-------------------------------------------------------------|
01589> ROUTE CHANNEL      IDout=[3], NHYD=["Overland1"], IDin=[2],
01590>                     RDT=[1](min),
01591>                     CHLGTH=[676](m),  CHSLOPE=[2.6](%),
01592>                                       FPSLOPE=[2.6](%),
01593>                     SECNUM=[1.1],     NSEG=[3]
01594>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01595>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
01596>                                                    [1000,1.7]
01597>                                                    [1001,1.4]
01598>                                                    [1002,1.7]
01599>                                                    [2000,2]
01600> *%-----------------|-------------------------------------------------------------|
01601> CALIB NASHYD       ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
01602>                     DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
01603>                     N=[3], TP=[0.53]hrs,
01604>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01605> *%-----------------|-------------------------------------------------------------|
01606> ADD HYD           IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
01607> *%-----------------|-------------------------------------------------------------|
01608> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek2"], IDin=[2],
01609>                     RDT=[1](min),
01610>                     CHLGTH=[261](m),  CHSLOPE=[2.3](%),
01611>                                       FPSLOPE=[2.3](%),
01612>                     SECNUM=[1.1],     NSEG=[3]
01613>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01614>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
01615>                                                    [1.75,1]
01616>                                                    [3.25,1]
01617>                                                    [5,3]
01618> *%-----------------|-------------------------------------------------------------|
01619> ADD HYD           IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
01620> *%-----------------|-------------------------------------------------------------|
```

```
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek3"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[204](m),  CHSLOPE=[3](%),
                                      FPSLOPE=[3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
                    N=[3], TP=[0.48]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                    N=[3], TP=[0.62]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                    DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
                    N=[3], TP=[0.75]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[49],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*%------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["BCreek4"], IDin=[6],
                    RDT=[1](min),
                    CHLGTH=[647](m),  CHSLOPE=[3](%),
                                      FPSLOPE=[3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
                    N=[3], TP=[0.72]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["103"], DT=[1]min, AREA=[20.6](ha),
                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
                    N=[3], TP=[0.23]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland2"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                      FPSLOPE=[2.3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[8], NHYD=["Overland3"], IDin=[5],
                    RDT=[1](min),
                    CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                      FPSLOPE=[4.0](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                    DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
                    N=[3], TP=[0.45]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland4"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[775](m),  CHSLOPE=[2.4](%),
                                      FPSLOPE=[2.4](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
                    DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
                    N=[3], TP=[0.44]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
                    DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
                    N=[3], TP=[0.58]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
*%------------------|-------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[450](m),
                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                    RDT=[1](min)
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                    DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                    PDIAM=[525](mm), PLNGTH=[435](m),
                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                    RDT=[1](min)
*%------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%------------------|-------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[305](m),
                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                    RDT=[1](min)
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                    DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                    N=[3], TP=[0.05]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%------------------|-------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                    (cms) - (ha-m)
                                   [  0.0 ,  0.0 ]
                                   [  0.0097  ,  0.1406  ]
                                   [  0.0352  ,  0.3212  ]
                                   [  0.0764  ,  0.5018  ]
                                   [  0.0986  ,  0.6823  ]
                                   [  0.1547  ,  0.8629  ]
                                   [  0.3283  ,  1.0435  ]
                                   [  0.5673  ,  1.2430  ]
                                   [  0.9560  ,  1.4426  ]
                                   [  1.1868  ,  1.6421  ]
                                   [  1.5548  ,  1.8417  ]
                                   [  1.9562  ,  2.0412  ]
                                   [  2.3891  ,  2.2712  ]
                                   [  2.8505  ,  2.5013  ]
                                   [  3.3385  ,  2.7313  ]
                                   [  3.8521  ,  2.9614  ]
                                   [  4.3895  ,  3.1914  ]
                                   [  5.8341  ,  3.8362  ]
                                   [  -1  ,  -1  ]  (max twenty pts)
                          IDovf=[2], NHYDovf=["Spillflow"]
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Pond 100yr"], IDs to add=[1+2]
*%------------------|-------------------------------------------------------------|
SAVE HYD            ID=[4],   # OF PCYCLES=[1],   ICASEsh=[-1]
                    HYD_FILENAME=["Pond100yr"]
                    HYD_COMMENT=["Pond100yr"]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
                    DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
                    N=[3], TP=[0.2]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                    DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                    N=[3], TP=[0.15]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                    N=[3], TP=[0.32]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%------------------|-------------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                    N=[3], TP=[0.09]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%------------------|-------------------------------------------------------------|
*#*******************************************************************************
*#**********************Regional Timmins Storm***********************************
*#*******************************************************************************
*%------------------|-------------------------------------------------------------|
READ STORM          STORM_FILENAME=["tim_stm"]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                    DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                    N=[3], TP=[0.42]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["BCreek1"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                      FPSLOPE=[1.3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                    DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                    N=[3], TP=[0.59]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
*%------------------|-------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%------------------|-------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                    PDIAM=[900](mm), PLNGTH=[162](m),
                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                    RDT=[1](min)
*%------------------|-------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                    DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
```

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01891>                          N=[3], TP=[0.58]hrs,
01892>                          RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01893> *%----------------|-----------------------------------------------------|
01894> ROUTE CHANNEL      IDout=[3], NHYD=["Overland1"], IDin=[2],
01895>                    RDT=[1](min),
01896>                    CHLGTH=[676](m),   CHSLOPE=[2.6](%),
01897>                                       FPSLOPE=[2.6](%),
01898>                    SECNUM=[1.1],      NSEG=[3]
01899>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01900>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
01901>                                                   [1000,1.7]
01902>                                                   [1001,1.4]
01903>                                                   [1002,1.7]
01904>                                                   [2000,2]
01905> *%----------------|-----------------------------------------------------|
01906> CALIB NASHYD      ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
01907>                    DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
01908>                    N=[3], TP=[0.53]hrs,
01909>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01910> *%----------------|-----------------------------------------------------|
01911> ADD HYD           IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
01912> *%----------------|-----------------------------------------------------|
01913> ROUTE CHANNEL     IDout=[3], NHYD=["BCreek2"], IDin=[2],
01914>                    RDT=[1](min),
01915>                    CHLGTH=[261](m),   CHSLOPE=[2.3](%),
01916>                                       FPSLOPE=[2.3](%),
01917>                    SECNUM=[1.1],      NSEG=[3]
01918>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01919>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01920>                                                   [1.75,1]
01921>                                                   [3.25,1]
01922>                                                   [5,3]
01923> *%----------------|-----------------------------------------------------|
01924> ADD HYD           IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
01925> *%----------------|-----------------------------------------------------|
01926> ROUTE CHANNEL     IDout=[3], NHYD=["BCreek3"], IDin=[2],
01927>                    RDT=[1](min),
01928>                    CHLGTH=[204](m),   CHSLOPE=[3](%),
01929>                                       FPSLOPE=[3](%),
01930>                    SECNUM=[1.1],      NSEG=[3]
01931>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01932>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01933>                                                   [1.75,1]
01934>                                                   [3.25,1]
01935>                                                   [5,3]
01936> *%----------------|-----------------------------------------------------|
01937> CALIB NASHYD      ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
01938>                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
01939>                    N=[3], TP=[0.48]hrs,
01940>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01941> *%----------------|-----------------------------------------------------|
01942> CALIB NASHYD      ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
01943>                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
01944>                    N=[3], TP=[0.62]hrs,
01945>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01946> *%----------------|-----------------------------------------------------|
01947> CALIB NASHYD      ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
01948>                    DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
01949>                    N=[3], TP=[0.75]hrs,
01950>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01951> *%----------------|-----------------------------------------------------|
01952> CALIB STANDHYD    ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
01953>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01954>                    SCS curve number CN=[49],
01955>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01956>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01957>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01958>                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
01959>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
01960> *%----------------|-----------------------------------------------------|
01961> ADD HYD           IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
01962> *%----------------|-----------------------------------------------------|
01963> ROUTE CHANNEL     IDout=[1], NHYD=["BCreek4"], IDin=[6],
01964>                    RDT=[1](min),
01965>                    CHLGTH=[647](m),   CHSLOPE=[3](%),
01966>                                       FPSLOPE=[3](%),
01967>                    SECNUM=[1.1],      NSEG=[3]
01968>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01969>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
01970>                                                   [1.75,1]
01971>                                                   [3.25,1]
01972>                                                   [5,3]
01973> *%----------------|-----------------------------------------------------|
01974> CALIB NASHYD      ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
01975>                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
01976>                    N=[3], TP=[0.72]hrs,
01977>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01978> *%----------------|-----------------------------------------------------|
01979> ADD HYD           IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
01980> *%----------------|-----------------------------------------------------|
01981> CALIB NASHYD      ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
01982>                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
01983>                    N=[3], TP=[0.23]hrs,
01984>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
01985> *%----------------|-----------------------------------------------------|
01986> ROUTE CHANNEL     IDout=[2], NHYD=["Overland2"], IDin=[1],
01987>                    RDT=[1](min),
01988>                    CHLGTH=[550](m),   CHSLOPE=[2.3](%),
01989>                                       FPSLOPE=[2.3](%),
01990>                    SECNUM=[1.1],      NSEG=[3]
01991>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01992>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
01993>                                                   [1000,1.7]
01994>                                                   [1001,1.4]
01995>                                                   [1002,1.7]
01996>                                                   [2000,2]
01997> *%----------------|-----------------------------------------------------|
01998> CALIB NASHYD      ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
01999>                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
02000>                    N=[3], TP=[0.47]hrs,
02001>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02002>
02003> *%----------------|-----------------------------------------------------|
02004> ADD HYD           IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
02005> *%----------------|-----------------------------------------------------|
02006> ROUTE CHANNEL     IDout=[8], NHYD=["Overland3"], IDin=[5],
02007>                    RDT=[1](min),
02008>                    CHLGTH=[500](m),   CHSLOPE=[4.0](%),
02009>                                       FPSLOPE=[4.0](%),
02010>                    SECNUM=[1.1],      NSEG=[3]
02011>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
02012>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
02013>                                                   [1000,1.7]
02014>                                                   [1001,1.4]
02015>                                                   [1002,1.7]
02016>                                                   [2000,2]
02017> *%----------------|-----------------------------------------------------|
02018> CALIB NASHYD      ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
02019>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
02020>                    N=[3], TP=[0.45]hrs,
02021>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02022> *%----------------|-----------------------------------------------------|
02023> ROUTE CHANNEL     IDout=[2], NHYD=["Overland4"], IDin=[1],
02024>                    RDT=[1](min),
02025>                    CHLGTH=[775](m),   CHSLOPE=[2.4](%),
02026>                                       FPSLOPE=[2.4](%),
02027>                    SECNUM=[1.1],      NSEG=[3]
02028>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
02029>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
02030>                                                   [1000,1.7]
02031>                                                   [1001,1.4]
02032>                                                   [1002,1.7]
02033>                                                   [2000,2]
02034> *%----------------|-----------------------------------------------------|
02035> CALIB NASHYD      ID=[4], NHYD=["201B"], DT=[1]min, AREA=[14.3](ha),
02036>                    DWF=[0](cms),  CN/C=[73.0], IA=[7.41](mm),
02037>                    N=[3], TP=[0.44]hrs,
02038>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02039> *%----------------|-----------------------------------------------------|
02040> CALIB NASHYD      ID=[6], NHYD=["201L"], DT=[1]min, AREA=[27.6](ha),
02041>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.84](mm),
02042>                    N=[3], TP=[0.58]hrs,
02043>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02044> *%----------------|-----------------------------------------------------|
02045> ADD HYD           IDsum=[7], NHYD=["Add7"], IDs to add=[2+4+6+8]
02046> *%----------------|-----------------------------------------------------|
02047> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
02048>                    PDIAM=[750](mm), PLNGTH=[450](m),
02049>                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
02050>                    RDT=[1](min)
02051> *%----------------|-----------------------------------------------------|
02052> CALIB NASHYD      ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
02053>                    DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
02054>                    N=[3], TP=[0.47]hrs,
02055>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02056> *%----------------|-----------------------------------------------------|
02057> ROUTE PIPE        PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
02058>                    PDIAM=[525](mm), PLNGTH=[435](m),
02059>                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
02060>                    RDT=[1](min)
02061> *%----------------|-----------------------------------------------------|
02062> CALIB STANDHYD    ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
02063>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
02064>                    SCS curve number CN=[79],
02065>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
02066>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
02067>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02068>                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
02069>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
02070> *%----------------|-----------------------------------------------------|
02071> ADD HYD           IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
02072> *%----------------|-----------------------------------------------------|
02073> ROUTE PIPE        PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
02074>                    PDIAM=[750](mm), PLNGTH=[305](m),
02075>                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
02076>                    RDT=[1](min)
02077> *%----------------|-----------------------------------------------------|
02078> ADD HYD           IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
02079> *%----------------|-----------------------------------------------------|
02080> CALIB NASHYD      ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
02081>                    DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
02082>                    N=[3], TP=[0.05]hrs,
02083>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02084> *%----------------|-----------------------------------------------------|
02085> ADD HYD           IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
02086> *%----------------|-----------------------------------------------------|
02087> ROUTE RESERVOIR   IDout=[1],   NHYD=["SWM1"],   IDin=[3],
02088>                    RDT=[1](min),
02089>                          TABLE of ( OUTFLOW-STORAGE ) values
02090>                                (cms)  -  (ha-m)
02091>                                [  0.0 ,  0.0 ]
02092>                                [  0.0097  ,  0.1406  ]
02093>                                [  0.0352  ,  0.3212  ]
02094>                                [  0.0764  ,  0.5018  ]
02095>                                [  0.0986  ,  0.6823  ]
02096>                                [  0.1547  ,  0.8629  ]
02097>                                [  0.3283  ,  1.0435  ]
02098>                                [  0.5673  ,  1.2430  ]
02099>                                [  0.8560  ,  1.4426  ]
02100>                                [  1.1868  ,  1.6421  ]
02101>                                [  1.5548  ,  1.8417  ]
02102>                                [  1.9562  ,  2.0412  ]
02103>                                [  2.3891  ,  2.2712  ]
02104>                                [  2.8505  ,  2.5013  ]
02105>                                [  3.3385  ,  2.7313  ]
02106>                                [  3.8521  ,  2.9614  ]
02107>                                [  4.3895  ,  3.1914  ]
02108>                                [  5.8341  ,  3.8362  ]
02109>                                [  -1  ,  -1  ]  (max twenty pts)
02110>                    IDovf=[2], NHYDovf=["Spillflow"]
02111> *%----------------|-----------------------------------------------------|
02112> ADD HYD           IDsum=[4], NHYD=["Pond Reg"], IDs to add=[1+2]
02113> *%----------------|-----------------------------------------------------|
02114> SAVE HYD          ID=[4],   # OF PCYCLES=[1],   ICASEsh=[-1]
02115>                    HYD_FILENAME=["PondReg"]
02116>                    HYD_COMMENT=["PondReg"]
02117> *%----------------|-----------------------------------------------------|
02118> CALIB NASHYD      ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[4.29](ha),
02119>                    DWF=[0](cms),  CN/C=[80.8], IA=[5.94](mm),
02120>                    N=[3], TP=[0.2]hrs,
02121>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02122> *%----------------|-----------------------------------------------------|
02123> CALIB NASHYD      ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
02124>                    DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
02125>                    N=[3], TP=[0.15]hrs,
02126>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02127> *%----------------|-----------------------------------------------------|
02128> CALIB NASHYD      ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
02129>                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
02130>                    N=[3], TP=[0.32]hrs,
02131>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02132> *%----------------|-----------------------------------------------------|
02133> CALIB STANDHYD    ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
02134>                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
02135>                    SCS curve number CN=[79],
02136>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
02137>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
02138>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
02139>                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
02140>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
02141> *%----------------|-----------------------------------------------------|
02142> ADD HYD           IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
02143> *%----------------|-----------------------------------------------------|
02144> CALIB STANDHYD    ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
02145>                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
02146>                    SCS curve number CN=[79],
02147>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
02148>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
02149>                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
02150>                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
02151>                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
02152> *%----------------|-----------------------------------------------------|
02153> CALIB NASHYD      ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
02154>                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
02155>                    N=[3], TP=[0.09]hrs,
02156>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
02157> *%----------------|-----------------------------------------------------|
02158> ADD HYD           IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
02159> *%----------------|-----------------------------------------------------|
02160> *%----------------|-----------------------------------------------------|
```

```
02161> FINISH
02162>
02163>
02164>
02165>
02166>
02167>
02168>
02169>
02170>
02171>
02172>
02173>
```

```
00001> ********************************************************************************
00002>
00003>    SSSSS  W    W  M    M  H    H  Y    Y  M    M    OOO          999     999     *********
00004>   S       W W W  MM  MM  H    H   Y  Y   MM  MM   O   O        9   9   9   9    *********
00005>    SSSSS  W W W  M MM M  HHHHH    Y     M M M  O   O  ##     9   9   9   9     Ver 4.05
00006>        S  W W W  M    M  H    H    Y     M    M  O   O        9999    9999     Sept 2011
00007>    SSSSS   W W   M    M  H    H    Y     M    M   OOO           9       9      *********
00008>                                                                 9   9   9   9    # 3737016
00009>          StormWater Management HYdrologic Model                 999     999     *********
00010>
00011>  *****************************************************************************
00012>  ***************************** SWMHYMO Ver/4.05 *******************************
00013>  *********  A single event and continuous hydrologic simulation model  *********
00014>  *********       based on the principles of HYMO and its successors      *********
00015>  *********                 OTTHYMO-83 and OTTHYMO-89                     *********
00016>  *****************************************************************************
00017>  *********  Distributed by:  J.F. Sabourin and Associates Inc.            *********
00018>  *********                   Ottawa, Ontario: (613) 836-3884             *********
00019>  *********                   Gatineau, Quebec: (819) 243-6858            *********
00020>  *********                   E-Mail: swmhymo@jfsa.Com                    *********
00021>  *****************************************************************************
00022>
00023>  *****************************************************************************
00024>  +++++++++ Licensed user: C.F. Crozier & Associates Inc.                 +++++++++
00025>  +++++++++                  Collingwood          SERIAL#:3737016        *********
00026>  *****************************************************************************
00027>
00028>  *****************************************************************************
00029>  *********          ++++++ PROGRAM ARRAY DIMENSIONS ++++++                *********
00030>  *********          Maximum value for ID numbers  :     10                *********
00031>  *********          Max. number of rainfall points: 105408                *********
00032>  *********          Max. number of flow points    : 105408                *********
00033>  *****************************************************************************
00034>
00035>  ***** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) *****
00036>  *****-------------------------------------------------------------------------*****
00037>  *****    ID:  Hydrograph IDentification numbers, (1-10).                     *****
00038>  *****  NHYD:  Hydrograph reference numbers, (6 digits or characters).        *****
00039>  *****  AREA:  Drainage area associated with hydrograph, (ac.) or (ha.).     *****
00040>  ***** QPEAK:  Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s).       *****
00041>  ***** TpeakDate_hh:mm is the date and time of the peak flow.                 *****
00042>  *****  R.V.:  Runoff Volume of simulated hydrograph, (in) or (mm).          *****
00043>  *****  R.C.:  Runoff Coefficient of simulated hydrograph, (ratio).          *****
00044>  *****    *:   see WARNING or NOTE message printed at end of run.            *****
00045>  *****   **:   see  ERROR  message printed at end of run.                    *****
00046>  *****************************************************************************
00047>  *****************************************************************************
00048>
00049> ::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
00050>
00051>  *****************************************************************************
00052>
00053>  **********************  S U M M A R Y   O U T P U T  **************************
00054>  *****************************************************************************
00055>  *         DATE: 2018-08-09      TIME: 16:39:15      RUN COUNTER: 000335         *
00056>  *****************************************************************************
00057>  * Input   filename: C:\AUGUST\PRE\SCS\PreSCS.dat                               *
00058>  * Output  filename: C:\AUGUST\PRE\SCS\PreSCS.out                               *
00059>  * Summary filename: C:\AUGUST\PRE\SCS\PreSCS.sum                               *
00060>  * User comments:                                                              *
00061>  * 1:_____________________________________________________________________     *
00062>  * 2:_____________________________________________________________________     *
00063>  * 3:_____________________________________________________________________     *
00064>  *****************************************************************************
00065>
00066>
00067> #*******************************************************************************
00068> #  Project Name: [Lora Bay Phase 4]                    Project Number: [469-3061]
00069> #  Date        : August 9, 2018
00070> #  Modeller    : [B. Ellsworth]
00071> #  Company     : C.F. Crozier & Associates Inc.
00072> #  License #   :  3737016
00073> #*******************************************************************************
00074> #  Filename    : Continuous Model
00075> #  Continuous Model
00076> #*******************************************************************************
00077> #*******************************************************************************
00078> #*******************************************************************************
00079>  RUN:COMMAND#
00080>  001:0001----------------------------------------------------------------------
00081>      START
00082>       [TZERO =    .00 hrs on        0]
00083>       [METOUT=   2     (1=imperial, 2=metric output)]
00084>       [NSTORM=   0 ]
00085>       [NRUN  =   1 ]
00086> #*******************************************************************************
00087> #************************2 year SCS 24HR HII Storm**********************************
00088> #*******************************************************************************
00089>  001:0002----------------------------------------------------------------------
00090>      MASS STORM
00091>       Filename = C:\AUGUST\PRE\SCS\SCS24HII.mat
00092>       Comment  = 24 hour SCS II storm mass curve
00093>       [SDT= 1.00:SDUR=  24.00:PTOT=  45.60]
00094>  001:0003---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00095>      CALIB NASHYD        01:302           28.20     .411 No_date   12:34   10.43
00096>       [CN= 74.2: N= 3.00]
00097>       [Tp=  .42:DT= 1.00]
00098>  001:0004---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00099>      ROUTE CHANNEL    -> 01:302           28.20     .411 No_date   12:34   10.43
00100>       [RDT= 1.00] out<- 02:BCreek1        28.20     .383 No_date   12:42   10.43
00101>       [L/S/n=  422./1,300/.070]
00102>       {Vmax=  .703:Dmax=  .325}
00103>  001:0005---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00104>      CALIB NASHYD        03:201C          21.60     .176 No_date   12:47    7.68
00105>       [CN= 65.7: N= 3.00]
00106>       [Tp=  .59:DT= 1.00]
00107>  001:0006---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00108>      ADD HYD             02:BCreek1       28.20     .383 No_date   12:42   10.43
00109>                        + 03:201C          21.60     .176 No_date   12:47    7.68
00110>       [DT= 1.00]  SUM=  04:Add1           49.80     .558 No_date   12:43    9.24
00111>  001:0007---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00112>      ROUTE PIPE       -> 04:Add1          49.80     .558 No_date   12:43    9.24
00113>       [RDT= 1.00] out<- 01:Pipe1          49.80     .558 No_date   12:44    9.24
00114>       [L/S/n=  162./2.160/.013]
00115>       {Vmax= 3.305:Dmax=  .279}
00116>       [Din=  .90:Dused=  .90]
00117>  001:0008---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00118>      CALIB NASHYD        02:301           44.80     .513 No_date   12:46   10.36
00119>       [CN= 74.0: N= 3.00]
00120>       [Tp=  .58:DT= 1.00]
00121>  001:0009---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00122>      ROUTE CHANNEL    -> 02:301           44.80     .513 No_date   12:46   10.36
00123>       [RDT= 1.00] out<- 03:Overland1      44.80     .403 No_date   13:25   10.36
00124>       [L/S/n=  676./2.600/.070]
00125>       {Vmax=  .302:Dmax=  .317}
00126>  001:0010---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00127>      CALIB NASHYD        04:201K           9.77     .104 No_date   12:43    9.14
00128>       [CN= 71.0: N= 3.00]
00129>       [Tp=  .53:DT= 1.00]
00130>  001:0011---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00131>      ADD HYD             03:Overland1     44.80     .403 No_date   13:25   10.36
00132>                        + 04:201K          9.77      .104 No_date   12:43    9.14
00133>       [DT= 1.00]  SUM=  02:Add2           54.57     .468 No_date   13:18   10.14
00134>  001:0012---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00135>      ROUTE CHANNEL    -> 02:Add2          54.57     .468 No_date   13:18   10.14
00136>       {RDT= 1.00] out<- 03:BCreek2        54.57     .467 No_date   13:19   10.14
00137>       [L/S/n=  261./2,300/.070]
00138>       {Vmax=  .877:Dmax=  .296}
00139>  001:0013---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00140>      ADD HYD             01:Pipe1         49.80     .558 No_date   12:44    9.24
00141>                        + 03:BCreek2       54.57     .467 No_date   13:19   10.14
00142>       [DT= 1.00]  SUM=  02:Add1           104.37    .929 No_date   12:52    9.71
00143>  001:0014---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00144>      ROUTE CHANNEL    -> 02:Add3          104.37    .929 No_date   12:52    9.71
00145>       [RDT= 1.00] out<- 03:BCreek3        104.37    .928 No_date   12:54    9.71
00146>       [L/S/n=  204./3,000/.070]
00147>       {Vmax= 1.217:Dmax=  .407}
00148>  001:0015---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00149>      CALIB NASHYD        01:201D           4.08     .022 No_date   12:38    4.45
00150>       [CN= 46.2: N= 3.00]
00151>       [Tp=  .48:DT= 1.00]
00152>  001:0016---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00153>      CALIB NASHYD        02:201E           8.13     .089 No_date   12:47   10.07
00154>       [CN= 67.6: N= 3.00]
00155>       [Tp=  .62:DT= 1.00]
00156>  001:0017---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00157>      CALIB NASHYD        04:201F           9.08     .156 No_date   12:55   17.34
00158>       [CN= 81.9: N= 3.00]
00159>       [Tp=  .75:DT= 1.00]
00160>  001:0018---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00161>      CALIB STANDHYD      05:202B          16.01     .738 No_date   12:15   19.88
00162>       [XIMP=.35:TIMP=.50]
00163>       [LOSS= 2 :CN= 49.0]
00164>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00165>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
00166>  001:0019---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00167>      ADD HYD             01:201D           4.08     .022 No_date   12:38    4.45
00168>                        + 02:201E           8.13     .089 No_date   12:47   10.07
00169>                        + 03:BCreek3        104.37    .928 No_date   12:54    9.71
00170>                        + 04:201F           9.08     .156 No_date   12:55   17.34
00171>                        + 05:202B           16.01     .738 No_date   12:15   19.88
00172>       [DT= 1.00]  SUM=  06:Add4           141.67    1.337 No_date   12:48   11.22
00173>  001:0020---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00174>      ROUTE CHANNEL    -> 06:Add4          141.67    1.337 No_date   12:48   11.22
00175>       [RDT= 1.00] out<- 01:BCreek4        141.67    1.318 No_date   12:54   11.22
00176>       [L/S/n=  647./3,000/.070]
00177>       {Vmax= 1.368:Dmax=  .499}
00178>  001:0021---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00179>      CALIB NASHYD        02:201G           4.38     .064 No_date   12:53   14.61
00180>       [CN= 78.4: N= 3.00]
00181>       [Tp=  .72:DT= 1.00]
00182>  001:0022---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00183>      ADD HYD             01:BCreek4       141.67    1.318 No_date   12:54   11.22
00184>                        + 02:201G          4.38      .064 No_date   12:53   14.61
00185>       [DT= 1.00]  SUM=  03:Add5           146.05    1.382 No_date   12:54   11.32
00186>  001:0023---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00187>      CALIB NASHYD        01:303           20.60     .437 No_date   12:21   10.13
00188>       [CN= 73.6: N= 3.00]
00189>       [Tp=  .23:DT= 1.00]
00190>  001:0024---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00191>      ROUTE CHANNEL    -> 01:303           20.60     .437 No_date   12:21   10.13
00192>       [RDT= 1.00] out<- 02:Overland2      20.60     .298 No_date   12:42   10.13
00193>       [L/S/n=  550./2,300/.070]
00194>       {Vmax=  .308:Dmax=  .315}
00195>  001:0025---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00196>      CALIB NASHYD        04:201A          23.20     .310 No_date   12:38   10.34
00197>       [CN= 73.9: N= 3.00]
00198>       [Tp=  .47:DT= 1.00]
00199>  001:0026---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00200>      ADD HYD             02:Overland2     20.60     .298 No_date   12:42   10.13
00201>                        + 04:201A          23.20     .310 No_date   12:38   10.34
00202>       [DT= 1.00]  SUM=  05:Add6           43.80     .605 No_date   12:41   10.24
00203>  001:0027---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00204>      ROUTE CHANNEL    -> 05:Add6          43.80     .605 No_date   12:41   10.24
00205>       [RDT= 1.00] out<- 08:Overland3      43.80     .505 No_date   13:03   10.24
00206>       [L/S/n=  500./4.000/.070]
00207>       {Vmax=  .391:Dmax=  .316}
00208>  001:0028---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00209>      CALIB NASHYD        01:201J          16.40     .245 No_date   12:36   11.05
00210>       [CN= 74.8: N= 3.00]
00211>       [Tp=  .45:DT= 1.00]
00212>  001:0029---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00213>      ROUTE CHANNEL    -> 01:201J          16.40     .245 No_date   12:36   11.05
00214>       [RDT= 1.00] out<- 02:Overland4      16.40     .200 No_date   13:00   11.05
00215>       [L/S/n=  775./2,400/.070]
00216>       {Vmax=  .498:Dmax=  .303}
00217>  001:0030---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00218>      CALIB NASHYD        04:201B          14.30     .219 No_date   12:35   11.04
00219>       [CN= 73.0: N= 3.00]
00220>       [Tp=  .44:DT= 1.00]
00221>  001:0031---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00222>      CALIB NASHYD        06:201L          27.60     .342 No_date   12:45   11.05
00223>       [CN= 74.8: N= 3.00]
00224>       [Tp=  .58:DT= 1.00]
00225>  001:0032---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00226>      ADD HYD             02:Overland4     16.40     .200 No_date   13:00   11.05
00227>                        + 04:201B          14.30     .219 No_date   12:35   11.04
00228>                        + 06:201L          27.60     .342 No_date   12:45   11.05
00229>                        + 08:Overland3     43.80     .505 No_date   13:03   10.24
00230>       [DT= 1.00]  SUM=  07:Add7           102.10    1.190 No_date   12:54   10.70
00231>  001:0033---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00232>      ROUTE PIPE       -> 07:Add7          102.10    1.190 No_date   12:54   10.70
00233>       [RDT= 1.00] out<- 01:Pipe2          102.10    1.188 No_date   12:55   10.70
00234>       [L/S/n=  450./1,500/.013]
00235>       {Vmax= 3.478:Dmax=  .542}
00236>       [Din=  .75:Dused=  .75]
00237>  001:0034---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00238>      CALIB NASHYD        02:201H           9.17     .048 No_date   12:37    4.20
00239>       [CN= 43.9: N= 3.00]
00240>       [Tp=  .47:DT= 1.00]
00241>  001:0035---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00242>      ROUTE PIPE       -> 02:201H          9.17      .048 No_date   12:37    4.20
00243>       [RDT= 1.00] out<- 04:Pipe3          9.17      .048 No_date   12:41    4.20
00244>       [L/S/n=  435./1,300/.013]
00245>       {Vmax= 1.442:Dmax=  .111}
00246>       [Din=  .53:Dused=  .53]
00247>  001:0036---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00248>      CALIB STANDHYD      05:202C          12.60     .828 No_date   12:16   27.35
00249>       [XIMP=.35:TIMP=.50]
00250>       [LOSS= 2 :CN= 79.0]
00251>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00252>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
00253>  001:0037---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00254>      ADD HYD             01:Pipe2         102.10    1.188 No_date   12:55   10.70
00255>                        * 04:Pipe3          9.17      .048 No_date   12:41    4.20
00256>                        + 05:202C          12.60     .828 No_date   12:16   27.35
00257>       [DT= 1.00]  SUM=  06:Add8           123.87    1.393 No_date   12:47   11.91
00258>  001:0038---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00259>      ROUTE PIPE       -> 06:Add8          123.87    1.393 No_date   12:47   11.91
00260>       [RDT= 1.00] out<- 01:Pipe4          123.87    1.393 No_date   12:48   11.91
00261>       [L/S/n=  305./5,000/.013]
00262>       {Vmax= 5.793:Dmax=  .401}
00263>       [Din=  .75:Dused=  .75]
00264>  001:0039---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00265>      ADD HYD             01:Pipe4         123.87    1.393 No_date   12:48   11.91
00266>                        + 03:Add5          146.05    1.382 No_date   12:54   11.32
00267>       [DT= 1.00]  SUM=  02:Add9           269.92    2.770 No_date   12:51   11.59
00268>  001:0040---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00269>      CALIB NASHYD        01:SWMF           6.80     .729 No_date   12:12   27.68
00270>       [CN= 91.7: N= 3.00]
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      [Tp=  .05:DT= 1.00]
 001:0041---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:SWMF            6.80      .729 No_date   12:12   27.68
                     + 02:Add9          269.92     2.770 No_date   12:51   11.59
      [DT= 1.00]  SUM= 03:Add10         276.72     2.832 No_date   12:51   11.99
 001:0042---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE RESERVOIR -> 03:Add10         276.72     2.832 No_date   12:51   11.99
      [RDT= 1.00] out<- 01:SWM1         276.72     1.022 No_date   14:25   11.99
            overflow <= 02:Spillflow       .00      .000 No_date    0:00     .00
     {MxStoUsed=.1542E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
 001:0043---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:SWM1          276.72     1.022 No_date   14:25   11.99
                     + 02:Spillflow        .00      .000 No_date    0:00     .00
      [DT= 1.00]  SUM= 04:Pond 2yr      276.72     1.022 No_date   14:25   11.99
 001:0044---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    SAVE HYD           04:Pond 2yr      276.72     1.022 No_date   14:25   11.99
     fname :C:\AUGUST\PRE\SCS\Pond2yr.001
     remark:Pond2yr
 001:0045---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:CottExt1        4.29      .162 No_date   12:19   15.73
      [CN= 80.8: N= 3.00]
      [Tp=  .20:DT= 1.00]
 001:0046---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:CottExt2        1.65      .057 No_date   12:16   12.43
      [CN= 76.2: N= 3.00]
      [Tp=  .15:DT= 1.00]
 001:0047---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       03:CottExt5         .38      .008 No_date   12:27   12.00
      [CN= 76.0: N= 3.00]
      [Tp=  .32:DT= 1.00]
 001:0048---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     05:CottB           2.49      .209 No_date   12:13   29.85
      [XIMP=.43:TIMP=.59]
      [LOSS= 2 :CN= 79.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
 001:0049---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:CottExt1        4.29      .162 No_date   12:19   15.73
                     + 02:CottExt2        1.65      .057 No_date   12:16   12.43
                     + 03:CottExt5         .38      .008 No_date   12:27   12.00
                     + 04:Pond 2yr      276.72     1.022 No_date   14:25   11.99
                     + 05:CottB           2.49      .209 No_date   12:13   29.85
      [DT= 1.00]  SUM= 06:SWM1 Outle    285.53     1.050 No_date   14:20   12.20
 001:0050---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     02:CottA           3.26      .260 No_date   12:13   28.98
      [XIMP=.40:TIMP=.56]
      [LOSS= 2 :CN= 79.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
 001:0051---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       03:CottExt6         .42      .017 No_date   12:13   12.00
      [CN= 76.0: N= 3.00]
      [Tp=  .09:DT= 1.00]
 001:0052---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            02:CottA           3.26      .260 No_date   12:13   28.98
                     + 03:CottExt6         .42      .017 No_date   12:13   12.00
                     + 06:SWM1 Outle    285.53     1.050 No_date   14:20   12.20
      [DT= 1.00]  SUM= 04:Sunset Out    289.21     1.065 No_date   14:16   12.39
#******************************************************************************
#**************************5 year SCS 24HR HII Storm****************************
#******************************************************************************
 001:0053-----------------------------------------------------------------------
    MASS STORM
     Filename = C:\AUGUST\PRE\SCS\SCS24HII.mst
     Comment  = 24 hour SCS II storm mass curve
     [SDT= 1.00:SDUR=  24.00:PTOT=  62.40]
 001:0054---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:302            28.20      .822 No_date   12:33   19.76
      [CN= 74.2: N= 3.00]
      [Tp=  .42:DT= 1.00]
 001:0055---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:302            28.20      .822 No_date   12:33   19.76
      [RDT= 1.00] out<- 02:BCreek1       28.20      .781 No_date   12:40   19.76
      [L/S/n=  422./1.300/.070]
      {Vmax=  .879:Dmax=  .480}
 001:0056---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       03:201C           21.60      .365 No_date   12:45   15.03
      [CN= 65.7: N= 3.00]
      [Tp=  .59:DT= 1.00]
 001:0057---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            02:BCreek1        28.20      .781 No_date   12:40   19.76
                     + 03:201C           21.60      .365 No_date   12:45   15.03
      [DT= 1.00]  SUM= 04:Add1           49.80     1.141 No_date   12:41   17.71
 001:0058---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 04:Add1           49.80     1.141 No_date   12:41   17.71
      [RDT= 1.00] out<- 01:Pipe1         49.80     1.141 No_date   12:42   17.71
      [L/S/n=  162./2.160/.013]
      {Vmax= 4.017:Dmax=  .411}
      [Din=  .90:Dused=  .90}
 001:0059---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:301            44.80     1.029 No_date   12:44   19.64
      [CN= 74.0: N= 3.00]
      [Tp=  .58:DT= 1.00]
 001:0060---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:301            44.80     1.029 No_date   12:44   19.64
      [RDT= 1.00] out<- 03:Overland1     44.80      .699 No_date   13:38   19.64
      [L/S/n=  676./2.600/.070]
      {Vmax=  .205:Dmax=  .336}
 001:0061---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       04:201K            9.77      .213 No_date   12:41   17.65
      [CN= 71.0: N= 3.00]
      [Tp=  .53:DT= 1.00]
 001:0062---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            03:Overland1      44.80      .699 No_date   13:38   19.64
                     + 04:201K            9.77      .213 No_date   12:41   17.65
      [DT= 1.00]  SUM= 02:Add2           54.57      .797 No_date   13:29   19.28
 001:0063---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:Add2           54.57      .797 No_date   13:29   19.28
      [RDT= 1.00] out<- 03:BCreek2       54.57      .796 No_date   13:30   19.28
      [L/S/n=  261./2.300/.070]
      {Vmax= 1.056:Dmax=  .402}
 001:0064---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:Pipe1          49.80     1.141 No_date   12:42   17.71
                     + 03:BCreek2        54.57      .796 No_date   13:30   19.28
      [DT= 1.00]  SUM= 02:Add3          104.37     1.775 No_date   12:48   18.53
 001:0065---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:Add3          104.37     1.775 No_date   12:48   18.53
      [RDT= 1.00] out<- 03:BCreek3      104.37     1.773 No_date   12:50   18.53
      [L/S/n=  204./3.000/.070]
      {Vmax= 1.494:Dmax=  .585}
 001:0066---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:201D            4.08      .045 No_date   12:38    8.73
      [CN= 46.2: N= 3.00]
      [Tp=  .48:DT= 1.00]
 001:0067---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:201E            8.13      .165 No_date   12:46   18.29
      [CN= 67.6: N= 3.00]
      [Tp=  .62:DT= 1.00]
 001:0068---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       04:201F            9.08      .268 No_date   12:54   29.36
      [CN= 81.9: N= 3.00]
      [Tp=  .75:DT= 1.00]
 001:0069---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     05:202B           16.01     1.146 No_date   12:14   29.65
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 49.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
 001:0070---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:201D            4.08      .045 No_date   12:38    8.73
                     + 02:201E            8.13      .165 No_date   12:46   18.29
                     + 03:BCreek3       104.37     1.773 No_date   12:50   18.53
                     + 04:201F            9.08      .268 No_date   12:54   29.36
                     + 05:202B           16.01     1.146 No_date   12:14   29.65
      [DT= 1.00]  SUM= 06:Add4          141.67     2.466 No_date   12:46   20.19
 001:0071---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 06:Add4          141.67     2.466 No_date   12:46   20.19
      [RDT= 1.00] out<- 01:BCreek4      141.67     2.440 No_date   12:50   20.19
      [L/S/n=  647./3.000/.070]
      {Vmax= 1.653:Dmax=  .701}
 001:0072---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:201G            4.38      .114 No_date   12:52   25.52
      [CN= 78.4: N= 3.00]
      [Tp=  .72:DT= 1.00]
 001:0073---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:BCreek4       141.67     2.440 No_date   12:50   20.19
                     + 02:201G            4.38      .114 No_date   12:52   25.52
      [DT= 1.00]  SUM= 03:Add5          146.05     2.554 No_date   12:51   20.35
 001:0074---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:303            20.60      .870 No_date   12:21   19.29
      [CN= 73.6: N= 3.00]
      [Tp=  .23:DT= 1.00]
 001:0075---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:303            20.60      .870 No_date   12:21   19.29
      [RDT= 1.00] out<- 02:Overland2     20.60      .508 No_date   12:49   19.29
      [L/S/n=  550./2.300/.070]
      {Vmax=  .191:Dmax=  .334}
 001:0076---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       04:201A           23.20      .619 No_date   12:37   19.60
      [CN= 73.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
 001:0077---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            02:Overland2      20.60      .508 No_date   12:49   19.29
                     + 04:201A           23.20      .619 No_date   12:37   19.60
      [DT= 1.00]  SUM= 05:Add6           43.80     1.101 No_date   12:42   19.46
 001:0078---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 05:Add6           43.80     1.101 No_date   12:42   19.46
      [RDT= 1.00] out<- 08:Overland3     43.80      .860 No_date   13:18   19.46
      [L/S/n=  500./4.000/.070]
      {Vmax=  .252:Dmax=  .334}
 001:0079---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:201J           16.40      .478 No_date   12:35   20.62
      [CN= 74.8: N= 3.00]
      [Tp=  .45:DT= 1.00]
 001:0080---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:201J           16.40      .478 No_date   12:35   20.62
      [RDT= 1.00] out<- 02:Overland4     16.40      .344 No_date   13:08   20.62
      [L/S/n=  775./2.400/.070]
      {Vmax=  .298:Dmax=  .316}
 001:0081---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       04:201B           14.30      .416 No_date   12:34   20.30
      [CN= 73.0: N= 3.00]
      [Tp=  .44:DT= 1.00]
 001:0082---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       06:201L           27.60      .670 No_date   12:44   20.62
      [CN= 74.8: N= 3.00]
      [Tp=  .58:DT= 1.00]
 001:0083---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            02:Overland4      16.40      .344 No_date   13:08   20.62
                     + 04:201B           14.30      .416 No_date   12:34   20.30
                     + 06:201L           27.60      .670 No_date   12:44   20.62
                     + 08:Overland3      43.80      .860 No_date   13:18   19.46
      [DT= 1.00]  SUM= 07:Add7          102.10     2.020 No_date   12:54   20.08
 001:0084---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 07:Add7          102.10     2.020 No_date   12:54   20.08
 *    [RDT= 1.00] out<- 01:Pipe2        102.10     2.019 No_date   12:57   20.08
      [L/S/n=  450./1.500/.013]
      {Vmax= 3.880:Dmax=  .713}
      [Din=  .75:Dused=  .87}
 001:0085---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:201H            9.17      .097 No_date   12:37    8.21
      [CN= 43.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
 001:0086---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 02:201H            9.17      .097 No_date   12:37    8.21
      [RDT= 1.00] out<- 04:Pipe3          9.17      .096 No_date   12:40    8.21
      [L/S/n=  435./1.300/.013]
      {Vmax= 1.755:Dmax=  .158}
      [Din=  .53:Dused=  .53]
 001:0087---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     05:202C           12.60     1.335 No_date   12:15   41.31
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
 001:0088---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:Pipe2         102.10     2.019 No_date   12:57   20.08
                     + 04:Pipe3           9.17      .096 No_date   12:40    8.21
                     + 05:202C           12.60     1.335 No_date   12:15   41.31
      [DT= 1.00]  SUM= 06:Add8          123.87     2.329 No_date   12:46   21.36
 001:0089---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 06:Add8          123.87     2.329 No_date   12:46   21.36
      [RDT= 1.00] out<- 01:Pipe4        123.87     2.329 No_date   12:47   21.36
      [L/S/n=  305./5.000/.013]
      {Vmax= 6.403:Dmax=  .576}
      [Din=  .75:Dused=  .75}
 001:0090---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:Pipe4         123.87     2.329 No_date   12:47   21.36
                     + 03:Add5          146.05     2.554 No_date   12:51   20.35
      [DT= 1.00]  SUM= 02:Add9          269.92     4.880 No_date   12:49   20.81
 001:0091---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:SWMF            6.80     1.099 No_date   12:12   42.83
      [CN= 91.7: N= 3.00]
      [Tp=  .05:DT= 1.00]
 001:0092---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:SWMF            6.80     1.099 No_date   12:12   42.83
                     + 02:Add9          269.92     4.880 No_date   12:49   20.81
      [DT= 1.00]  SUM= 03:Add10         276.72     4.973 No_date   12:49   21.35
 001:0093---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE RESERVOIR -> 03:Add10         276.72     4.973 No_date   12:49   21.35
      [RDT= 1.00] out<- 01:SWM1         276.72     2.533 No_date   14:06   21.35
            overflow <= 02:Spillflow       .00      .000 No_date    0:00     .00
     {MxStoUsed=.2343E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
 001:0094---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:SWM1          276.72     2.533 No_date   14:06   21.35
                     + 02:Spillflow        .00      .000 No_date    0:00     .00
      [DT= 1.00]  SUM= 04:Pond 5yr      276.72     2.533 No_date   14:06   21.35
 001:0095---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    SAVE HYD           04:Pond 5yr      276.72     2.533 No_date   14:06   21.35
     fname :C:\AUGUST\PRE\SCS\Pond5yr.001
     remark:Pond5yr
 001:0096---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:CottExt1        4.29      .286 No_date   12:18   27.29
      [CN= 80.8: N= 3.00]
      [Tp=  .20:DT= 1.00]
 001:0097---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:CottExt2        1.65      .105 No_date   12:16   22.53
      [CN= 76.2: N= 3.00]
      [Tp=  .15:DT= 1.00]
 001:0098---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
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      CALIB NASHYD       03:CottExt5          .38       .015 No_date    12:26    21.98
       [CN= 76.0: N= 3.00]
       [Tp=  .32:DT= 1.00]
 001:0099--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD     05:CottB            2.49       .324 No_date    12:12    44.33
       [XIMP=.43:TIMP=.59]
       [LOSS= 2 :CN= 79.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
 001:0100--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:CottExt1         4.29       .286 No_date    12:18    27.29
                       + 02:CottExt2         1.65       .105 No_date    12:16    22.53
                       + 03:CottExt5          .38       .015 No_date    12:26    21.98
                       + 04:Pond 5yr       276.72      2.533 No_date    14:06    21.35
                       + 05:CottB            2.49       .324 No_date    12:12    44.33
       [DT= 1.00]  SUM=  06:SWM1 Outle     285.53      2.586 No_date    14:06    21.65
 001:0101--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD     02:CottA            3.26       .404 No_date    12:13    43.28
       [XIMP=.40:TIMP=.56]
       [LOSS= 2 :CN= 79.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
 001:0102--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       03:CottExt6          .42       .032 No_date    12:13    21.98
       [CN= 76.0: N= 3.00]
       [Tp=  .09:DT= 1.00]
 001:0103--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            02:CottA            3.26       .404 No_date    12:13    43.28
                       + 03:CottExt6          .42       .032 No_date    12:13    21.98
                       + 06:SWM1 Outle     285.53      2.586 No_date    14:06    21.65
       [DT= 1.00]  SUM=  04:Sunset Out     289.21      2.612 No_date    14:06    21.89
#**************************************************************************
#*************************10 year SCS 24HR HII Storm***********************
#**************************************************************************
 001:0104------------------------------------------------------------------
      MASS STORM
       Filename = C:\AUGUST\PRE\SCS\SCS24HII.mst
       Comment  = 24 hour SCS II storm mass curve
       [SDT= 1.00:SDUR=  24.00:PTOT=  72.00]
 001:0105--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       01:302             28.20      1.092 No_date    12:33    25.84
       [CN= 74.2: N= 3.00]
       [Tp=  .42:DT= 1.00]
 001:0106--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 01:302             28.20      1.092 No_date    12:33    25.84
       [RDT= 1.00] out<- 02:BCreek1         28.20      1.045 No_date    12:39    25.84
       [L/S/n=  422./1.300/.070]
       {Vmax=  .964:Dmax=  .563}
 001:0107--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       03:201C            21.60       .492 No_date    12:45    19.96
       [CN= 65.7: N= 3.00]
       [Tp=  .59:DT= 1.00]
 001:0108--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            02:BCreek1         28.20      1.045 No_date    12:39    25.84
                       + 03:201C            21.60       .492 No_date    12:45    19.96
       [DT= 1.00]  SUM=  04:Add1            49.80      1.531 No_date    12:40    23.29
 001:0109--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 04:Add1            49.80      1.531 No_date    12:40    23.29
       [RDT= 1.00] out<- 01:Pipe1           49.80      1.531 No_date    12:41    23.29
       [L/S/n=  162./2.160/.013]
       {Vmax= 4.326:Dmax=  .489}
       {Din=  .90:Dused=  .90}
 001:0110--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       02:301             44.80      1.368 No_date    12:44    25.69
       [CN= 74.0: N= 3.00]
       [Tp=  .58:DT= 1.00]
 001:0111--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 02:301             44.80      1.368 No_date    12:44    25.69
       [RDT= 1.00] out<- 03:Overland1       44.80       .854 No_date    13:44    25.69
       [L/S/n=  676./2.600/.070]
       {Vmax=  .210:Dmax=  .339}
 001:0112--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       04:201K             9.77       .285 No_date    12:40    23.26
       [CN= 71.0: N= 3.00]
       [Tp=  .53:DT= 1.00]
 001:0113--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            03:Overland1       44.80       .854 No_date    13:44    25.69
                       + 04:201K             9.77       .285 No_date    12:40    23.26
       [DT= 1.00]  SUM=  02:Add2            54.57       .981 No_date    13:10    25.25
 001:0114--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 02:Add2            54.57       .981 No_date    13:10    25.25
       [RDT= 1.00] out<- 03:BCreek2         54.57       .978 No_date    13:11    25.25
       [L/S/n=  261./2.300/.070]
       {Vmax= 1.131:Dmax=  .452}
 001:0115--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:Pipe1           49.80      1.531 No_date    12:41    23.29
                       + 03:BCreek2         54.57       .978 No_date    13:11    25.25
       [DT= 1.00]  SUM=  02:Add3           104.37      2.356 No_date    12:46    24.32
 001:0116--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 02:Add3           104.37      2.356 No_date    12:46    24.32
       [RDT= 1.00] out<- 03:BCreek3        104.37      2.351 No_date    12:48    24.32
       [L/S/n=  204./3.000/.070]
       {Vmax= 1.630:Dmax=  .684}
 001:0117--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       01:201D             4.08       .061 No_date    12:37    11.70
       [CN= 46.2: N= 3.00]
       [Tp=  .48:DT= 1.00]
 001:0118--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       02:201E             8.13       .215 No_date    12:46    23.67
       [CN= 67.6: N= 3.00]
       [Tp=  .62:DT= 1.00]
 001:0119--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       04:201F             9.08       .338 No_date    12:53    36.81
       [CN= 81.9: N= 3.00]
       [Tp=  .75:DT= 1.00]
 001:0120--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD     05:202B            16.01      1.404 No_date    12:14    35.62
       [XIMP=.35:TIMP=.50]
       [LOSS= 2 :CN= 49.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
 001:0121--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:201D             4.08       .061 No_date    12:37    11.70
                       + 02:201E             8.13       .215 No_date    12:46    23.67
                       + 03:BCreek3        104.37      2.351 No_date    12:48    24.32
                       + 04:201F             9.08       .338 No_date    12:53    36.81
                       + 05:202B            16.01      1.404 No_date    12:14    35.62
       [DT= 1.00]  SUM=  06:Add4           141.67      3.230 No_date    12:45    26.00
 001:0122--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 06:Add4           141.67      3.230 No_date    12:45    26.00
       [RDT= 1.00] out<- 01:BCreek4        141.67      3.196 No_date    12:49    26.00
       [L/S/n=  647./3.000/.070]
       {Vmax= 1.789:Dmax=  .813}
 001:0123--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       02:201G             4.38       .147 No_date    12:52    32.40
       [CN= 78.4: N= 3.00]
       [Tp=  .72:DT= 1.00]
 001:0124--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:BCreek4        141.67      3.196 No_date    12:49    26.00
                       + 02:201G             4.38       .147 No_date    12:52    32.40
       [DT= 1.00]  SUM=  03:Add5           146.05      3.342 No_date    12:49    26.19
 001:0125--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       01:303             20.60      1.155 No_date    12:20    25.27
       [CN= 73.6: N= 3.00]
       [Tp=  .23:DT= 1.00]
 001:0126--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 01:303             20.60      1.155 No_date    12:20    25.27
       [RDT= 1.00] out<- 02:Overland2       20.60       .617 No_date    12:52    25.27
       [L/S/n=  550./2.300/.070]
       {Vmax=  .195:Dmax=  .338}
 001:0127--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       04:201A            23.20       .823 No_date    12:36    25.64
       [CN= 73.9: N= 3.00]
       [Tp=  .47:DT= 1.00]
 001:0128--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            02:Overland2       20.60       .617 No_date    12:52    25.27
                       + 04:201A            23.20       .823 No_date    12:36    25.64
       [DT= 1.00]  SUM=  05:Add6            43.80      1.386 No_date    12:43    25.47
 001:0129--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 05:Add6            43.80      1.386 No_date    12:43    25.47
       [RDT= 1.00] out<- 08:Overland3       43.80      1.027 No_date    13:25    25.47
       [L/S/n=  500./4.000/.070]
       {Vmax=  .256:Dmax=  .337}
 001:0130--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       01:201J            16.40       .630 No_date    12:35    26.83
       [CN= 74.8: N= 3.00]
       [Tp=  .45:DT= 1.00]
 001:0131--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 01:201J            16.40       .630 No_date    12:35    26.83
       [RDT= 1.00] out<- 02:Overland4       16.40       .429 No_date    13:12    26.83
       [L/S/n=  775./2.400/.070]
       {Vmax=  .236:Dmax=  .325}
 001:0132--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       04:201B            14.30       .545 No_date    12:34    26.32
       [CN= 73.0: N= 3.00]
       [Tp=  .44:DT= 1.00]
 001:0133--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       06:201L            27.60       .884 No_date    12:43    26.82
       [CN= 74.8: N= 3.00]
       [Tp=  .58:DT= 1.00]
 001:0134--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            02:Overland4       16.40       .429 No_date    13:12    26.83
                       + 04:201B            14.30       .545 No_date    12:34    26.32
                       + 06:201L            27.60       .884 No_date    12:43    26.82
                       + 08:Overland3       43.80      1.027 No_date    13:25    25.47
       [DT= 1.00]  SUM=  07:Add7           102.10      2.563 No_date    12:53    26.17
 001:0135--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 07:Add7           102.10      2.563 No_date    12:53    26.17
    *  [RDT= 1.00] out<- 01:Pipe2          102.10      2.560 No_date    12:54    26.17
       [L/S/n=  450./1.500/.013]
       {Vmax= 4.118:Dmax=  .780}
       [Din=  .75:Dused=  .95}
 001:0136--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       02:201H             9.17       .131 No_date    12:37    11.00
       [CN= 43.9: N= 3.00]
       [Tp=  .47:DT= 1.00]
 001:0137--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 02:201H             9.17       .131 No_date    12:37    11.00
       [RDT= 1.00] out<- 04:Pipe3            9.17       .130 No_date    12:40    11.00
       [L/S/n=  435./1.300/.013]
       {Vmax= 1.911:Dmax=  .185}
       [Din=  .53:Dused=  .53}
 001:0138--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD     05:202C            12.60      1.654 No_date    12:14    49.64
       [XIMP=.35:TIMP=.50]
       [LOSS= 2 :CN= 79.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
 001:0139--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:Pipe2          102.10      2.560 No_date    12:54    26.17
                       + 04:Pipe3            9.17       .130 No_date    12:40    11.00
                       + 05:202C            12.60      1.654 No_date    12:14    49.64
       [DT= 1.00]  SUM=  06:Add8           123.87      2.940 No_date    12:45    27.44
 001:0140--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 06:Add8           123.87      2.940 No_date    12:45    27.44
    *  [RDT= 1.00] out<- 01:Pipe4          123.87      2.940 No_date    12:46    27.44
       [L/S/n=  305./5.000/.013]
       {Vmax= 6.693:Dmax=  .655}
       [Din=  .75:Dused=  .80}
 001:0141--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:Pipe4          123.87      2.940 No_date    12:46    27.44
                       + 03:Add5           146.05      3.342 No_date    12:49    26.19
       [DT= 1.00]  SUM=  02:Add9           269.92      6.280 No_date    12:48    26.76
 001:0142--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       01:SWMF             6.80      1.312 No_date    12:12    51.76
       [CN= 91.7: N= 3.00]
       [Tp=  .05:DT= 1.00]
 001:0143--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:SWMF             6.80      1.312 No_date    12:12    51.76
                       + 02:Add9           269.92      6.280 No_date    12:48    26.76
       [DT= 1.00]  SUM=  03:Add10          276.72      6.390 No_date    12:48    27.37
 001:0144--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE RESERVOIR -> 03:Add10          276.72      6.390 No_date    12:48    27.37
       [RDT= 1.00] out<- 01:SWM1           276.72      3.486 No_date    14:01    27.37
              overflow <= 02:Spillflow        .00       .000 No_date     0:00      .00
      {MxStoUsed=.2797E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
 001:0145--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:SWM1           276.72      3.486 No_date    14:01    27.37
                       + 02:Spillflow        .00       .000 No_date     0:00      .00
       [DT= 1.00]  SUM=  04:Pond 10yr      276.72      3.486 No_date    14:01    27.37
 001:0146--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      SAVE HYD           04:Pond 10yr      276.72      3.486 No_date    14:01    27.37
       fname :C:\AUGUST\PRE\SCS\Pond10yr.001
       remark:Pond10yr
 001:0147--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       01:CottExt1         4.29       .363 No_date    12:18    34.52
       [CN= 80.8: N= 3.00]
       [Tp=  .20:DT= 1.00]
 001:0148--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       02:CottExt2         1.65       .136 No_date    12:16    29.01
       [CN= 76.2: N= 3.00]
       [Tp=  .15:DT= 1.00]
 001:0149--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       03:CottExt5          .38       .020 No_date    12:26    28.40
       [CN= 76.0: N= 3.00]
       [Tp=  .32:DT= 1.00]
 001:0150--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD     05:CottB            2.49       .391 No_date    12:12    52.90
       [XIMP=.43:TIMP=.59]
       [LOSS= 2 :CN= 79.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
 001:0151--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD            01:CottExt1         4.29       .363 No_date    12:18    34.52
                       + 02:CottExt2         1.65       .136 No_date    12:16    29.01
                       + 03:CottExt5          .38       .020 No_date    12:26    28.40
                       + 04:Pond 10yr      276.72      3.486 No_date    14:01    27.37
                       + 05:CottB            2.49       .391 No_date    12:12    52.90
       [DT= 1.00]  SUM=  06:SWM1 Outle     285.53      3.551 No_date    14:01    27.71
 001:0152--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD     02:CottA            3.26       .494 No_date    12:13    51.77
       [XIMP=.40:TIMP=.56]
       [LOSS= 2 :CN= 79.0]
       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
 001:0153--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD       03:CottExt6          .42       .042 No_date    12:13    28.40
       [CN= 76.0: N= 3.00]
       [Tp=  .09:DT= 1.00]
 001:0154--------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
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00811>       ADD HYD            02:CottA          3.26     .494 No_date   12.13   51.77
00812>                        +  03:CottExt6       .42     .042 No_date   12.13   28.40
00813>                        +  06:SWM1 Outle   285.53   3.551 No_date   14:01   27.71
00814>       [DT= 1.00]  SUM=   04:Sunset Out   289.21   3.582 No_date   14:01   27.99
00815> #*************************************************************************
00816> #**************************25 year SCS 24HR HII Storm*********************
00817> #*************************************************************************
00818>  001:0155-------------------------------------------------------------------
00819>       MASS STORM
00820>        Filename = C:\AUGUST\PRE\SCS\SCS24HII.mst
00821>        Comment  = 24 hour SCS II storm mass curve
00822>        [SDT= 1.00:SDUR=  24.00:PTOT=  86.40]
00823>  001:0156---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00824>       CALIB NASHYD       01:302           28.20    1.532 No_date   12:32   35.73
00825>        [CN= 74.2: N= 3.00]
00826>        [Tp=  .42:DT= 1.00]
00827>  001:0157---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00828>       ROUTE CHANNEL   -> 01:302           28.20    1.532 No_date   12:32   35.73
00829>        [RDT= 1.00] out<- 02:BCreek1       28.20    1.477 No_date   12:38   35.73
00830>        [L/S/n=  422./1.300/.070]
00831>        {Vmax= 1.069:Dmax=  .679}
00832>  001:0158---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00833>       CALIB NASHYD       03:201C          21.60     .706 No_date   12:44   28.16
00834>        [CN= 65.7: N= 3.00]
00835>        [Tp=  .59:DT= 1.00]
00836>  001:0159---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00837>       ADD HYD            02:BCreek1       28.20    1.477 No_date   12:38   35.73
00838>                        +  03:201C          21.60     .706 No_date   12:44   28.16
00839>        [DT= 1.00]  SUM=   04:Add1         49.80    2.171 No_date   12:39   32.45
00840>  001:0160---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00841>       ROUTE PIPE      -> 04:Add1         49.80    2.171 No_date   12:39   32.45
00842>        [RDT= 1.00] out<- 01:Pipe1        49.80    2.171 No_date   12:40   32.45
00843>        [L/S/n=  162./2.160/.013]
00844>        {Vmax= 4.665:Dmax=  .618}
00845>        [Din=  .90:Dused=  .90]
00846>  001:0161---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00847>       CALIB NASHYD       02:301           44.80    1.922 No_date   12:43   35.54
00848>        [CN= 74.0: N= 3.00]
00849>        [Tp=  .58:DT= 1.00]
00850>  001:0162---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00851>       ROUTE CHANNEL   -> 02:301           44.80    1.922 No_date   12:43   35.54
00852>        [RDT= 1.00] out<- 03:Overland1     44.80    1.155 No_date   13:22   35.54
00853>        [L/S/n=  676./2.600/.070]
00854>        {Vmax=  .218:Dmax=  .345}
00855>  001:0163---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00856>       CALIB NASHYD       04:201K           9.77     .405 No_date   12:40   32.48
00857>        [CN= 71.0: N= 3.00]
00858>        [Tp=  .53:DT= 1.00]
00859>  001:0164---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00860>       ADD HYD            03:Overland1     44.80    1.155 No_date   13:22   35.54
00861>                        +  04:201K          9.77     .405 No_date   12:40   32.48
00862>        [DT= 1.00]  SUM=   02:Add2         54.57    1.405 No_date   13:11   34.99
00863>  001:0165---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00864>       ROUTE CHANNEL   -> 02:Add2         54.57    1.405 No_date   13:11   34.99
00865>        [RDT= 1.00] out<- 03:BCreek2       54.57    1.403 No_date   13:15   34.99
00866>        [L/S/n=  261./2.300/.070]
00867>        {Vmax= 1.270:Dmax=  .553}
00868>  001:0166---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00869>       ADD HYD            01:Pipe1         49.80    2.171 No_date   12:40   32.45
00870>                        +  03:BCreek2       54.57    1.403 No_date   13:15   34.99
00871>        [DT= 1.00]  SUM=   02:Add3        104.37    3.283 No_date   12:45   33.78
00872>  001:0167---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00873>       ROUTE CHANNEL   -> 02:Add3        104.37    3.283 No_date   12:45   33.78
00874>        [RDT= 1.00] out<- 03:BCreek3      104.37    3.278 No_date   12:46   33.78
00875>        [L/S/n=  204./3.000/.070]
00876>        {Vmax= 1.799:Dmax=  .820}
00877>  001:0168---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00878>       CALIB NASHYD       01:201D           4.08     .089 No_date   12:37   16.79
00879>        [CN= 46.2: N= 3.00]
00880>        [Tp=  .48:DT= 1.00]
00881>  001:0169---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00882>       CALIB NASHYD       02:201E           8.13     .298 No_date   12:45   32.50
00883>        [CN= 67.6: N= 3.00]
00884>        [Tp=  .62:DT= 1.00]
00885>  001:0170---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00886>       CALIB NASHYD       04:201F           9.08     .449 No_date   12:53   48.55
00887>        [CN= 81.9: N= 3.00]
00888>        [Tp=  .75:DT= 1.00]
00889>  001:0171---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00890>       CALIB STANDHYD     05:202B          16.01    1.847 No_date   12:14   45.03
00891>        [XIMP=.35:TIMP=.50]
00892>        [LOSS= 2 :CN= 49.0]
00893>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00894>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
00895>  001:0172---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00896>       ADD HYD            01:201D           4.08     .089 No_date   12:37   16.79
00897>                        +  02:201E          8.13     .298 No_date   12:45   32.50
00898>                        +  03:BCreek3      104.37    3.278 No_date   12:46   33.78
00899>                        +  04:201F          9.08     .449 No_date   12:53   48.55
00900>                        +  05:202B         16.01    1.847 No_date   12:14   45.03
00901>        [DT= 1.00]  SUM=   06:Add4        141.67    4.439 No_date   12:43   35.43
00902>  001:0173---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00903>       ROUTE CHANNEL   -> 06:Add4        141.67    4.439 No_date   12:43   35.43
00904>        [RDT= 1.00] out<- 01:BCreek4      141.67    4.398 No_date   12:48   35.43
00905>        [L/S/n=  647./3.000/.070]
00906>        {Vmax= 1.959:Dmax=  .964}
00907>  001:0174---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00908>       CALIB NASHYD       02:201G           4.38     .198 No_date   12:51   43.38
00909>        [CN= 78.4: N= 3.00]
00910>        [Tp=  .72:DT= 1.00]
00911>  001:0175---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00912>       ADD HYD            01:BCreek4       141.67    4.398 No_date   12:48   35.43
00913>                        +  02:201G          4.38     .198 No_date   12:51   43.38
00914>        [DT= 1.00]  SUM=   03:Add5        146.05    4.595 No_date   12:48   35.67
00915>  001:0176---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00916>       CALIB NASHYD       01:303           20.60    1.620 No_date   12:20   35.03
00917>        [CN= 73.6: N= 3.00]
00918>        [Tp=  .23:DT= 1.00]
00919>  001:0177---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00920>       ROUTE CHANNEL   -> 01:303           20.60    1.620 No_date   12:20   35.03
00921>        [RDT= 1.00] out<- 02:Overland2     20.60     .771 No_date   12:55   35.03
00922>        [L/S/n=  550./2.300/.070]
00923>        {Vmax=  .202:Dmax=  .343}
00924>  001:0178---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00925>       CALIB NASHYD       04:201A           23.20    1.155 No_date   12:36   35.47
00926>        [CN= 73.9: N= 3.00]
00927>        [Tp=  .47:DT= 1.00]
00928>  001:0179---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00929>       ADD HYD            02:Overland2     20.60     .771 No_date   12:55   35.03
00930>                        +  04:201A          23.20    1.155 No_date   12:36   35.47
00931>        [DT= 1.00]  SUM=   05:Add6         43.80    1.844 No_date   12:37   35.26
00932>  001:0180---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00933>       ROUTE CHANNEL   -> 05:Add6         43.80    1.844 No_date   12:37   35.26
00934>        [RDT= 1.00] out<- 08:Overland3     43.80    1.363 No_date   13:10   35.26
00935>        [L/S/n=  500./4.000/.070]
00936>        {Vmax=  .262:Dmax=  .341}
00937>  001:0181---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00938>       CALIB NASHYD       01:201J           16.40     .878 No_date   12:34   36.88
00939>        [CN= 74.8: N= 3.00]
00940>        [Tp=  .45:DT= 1.00]
00941>  001:0182---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00942>       ROUTE CHANNEL   -> 01:201J          16.40     .878 No_date   12:34   36.88
00943>        [RDT= 1.00] out<- 02:Overland4     16.40     .554 No_date   13:21   36.88
00944>        [L/S/n=  775./2.400/.070]
00945>        {Vmax=  .195:Dmax=  .334}
00946>  001:0183---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00947>       CALIB NASHYD       04:201B           14.30     .756 No_date   12:33   36.08
00948>        [CN= 73.0: N= 3.00]
00949>        [Tp=  .44:DT= 1.00]
00950>  001:0184---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00951>       CALIB NASHYD       06:201L           27.60    1.232 No_date   12:43   36.88
00952>        [CN= 74.8: N= 3.00]
00953>        [Tp=  .58:DT= 1.00]
00954>  001:0185---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00955>       ADD HYD            02:Overland4     16.40     .554 No_date   13:21   36.88
00956>                        +  04:201B          14.30     .756 No_date   12:33   36.08
00957>                        +  06:201L          27.60    1.232 No_date   12:43   36.88
00958>                        +  08:Overland3     43.80    1.363 No_date   13:10   35.26
00959>        [DT= 1.00]  SUM=   07:Add7        102.10    3.462 No_date   12:53   36.07
00960>  001:0186---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00961>       ROUTE PIPE      -> 07:Add7        102.10    3.462 No_date   12:53   36.07
00962>  *    [RDT= 1.00] out<- 01:Pipe2        102.10    3.458 No_date   12:55   36.07
00963>        [L/S/n=  450./1.500/.013]
00964>        {Vmax= 4.439:Dmax=  .873}
00965>        [Din=  .75:Dused= 1.06]
00966>  001:0187---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00967>       CALIB NASHYD       02:201H           9.17     .189 No_date   12:36   15.78
00968>        [CN= 43.9: N= 3.00]
00969>        [Tp=  .47:DT= 1.00]
00970>  001:0188---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00971>       ROUTE PIPE      -> 02:201H           9.17     .189 No_date   12:36   15.78
00972>        [RDT= 1.00] out<- 04:Pipe3          9.17     .188 No_date   12:39   15.78
00973>        [L/S/n=  435./1.300/.013]
00974>        {Vmax= 2.118:Dmax=  .226}
00975>        [Din=  .53:Dused=  .53]
00976>  001:0189---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00977>       CALIB STANDHYD     05:202C          12.60    2.123 No_date   12:14   62.48
00978>        [XIMP=.35:TIMP=.50]
00979>        [LOSS= 2 :CN= 79.0]
00980>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00981>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
00982>  001:0190---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00983>       ADD HYD            01:Pipe2         102.10    3.458 No_date   12:55   36.07
00984>                        +  04:Pipe3          9.17     .188 No_date   12:39   15.78
00985>                        +  05:202C          12.60    2.123 No_date   12:14   62.48
00986>        [DT= 1.00]  SUM=   06:Add8        123.87    3.924 No_date   12:47   37.26
00987>  001:0191---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00988>       ROUTE PIPE      -> 06:Add8        123.87    3.924 No_date   12:47   37.26
00989>  *    [RDT= 1.00] out<- 01:Pipe4        123.87    3.924 No_date   12:48   37.26
00990>        [L/S/n=  305./5.000/.013]
00991>        {Vmax= 7.195:Dmax=  .730}
00992>        [Din=  .75:Dused=  .89]
00993>  001:0192---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00994>       ADD HYD            01:Pipe4         123.87    3.924 No_date   12:48   37.26
00995>                        +  03:Add5         146.05    4.595 No_date   12:48   35.67
00996>        [DT= 1.00]  SUM=   02:Add9        269.92    8.519 No_date   12:48   36.40
00997>  001:0193---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
00998>       CALIB NASHYD       01:SWMF           6.80    1.631 No_date   12:12   65.39
00999>        [CN= 91.7: N= 3.00]
01000>        [Tp=  .05:DT= 1.00]
01001>  001:0194---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01002>       ADD HYD            01:SWMF           6.80    1.631 No_date   12:12   65.39
01003>                        +  02:Add9        269.92    8.519 No_date   12:48   36.40
01004>        [DT= 1.00]  SUM=   03:Add10       276.72    8.655 No_date   12:48   37.11
01005>  001:0195---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01006>       ROUTE RESERVOIR -> 03:Add10       276.72    8.655 No_date   12:48   37.11
01007>        [RDT= 1.00] out<- 01:SWM1         276.72    5.080 No_date   13:52   37.11
01008>             overflow <= 02:Spillflow       .00       .000 No_date    0:00     .00
01009>        [MxStoUsed=.3500E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
01010>  001:0196---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01011>       ADD HYD            01:SWM1          276.72    5.080 No_date   13:52   37.11
01012>                        +  02:Spillflow       .00       .000 No_date    0:00     .00
01013>        [DT= 1.00]  SUM=   04:Pond 25yr    276.72    5.080 No_date   13:52   37.11
01014>  001:0197---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01015>       SAVE HYD           04:Pond 25yr      276.72    5.080 No_date   13:52   37.11
01016>        fname :C:\AUGUST\PRE\SCS\Pond25yr.001
01017>        remark:Pond25yr
01018>  001:0198---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01019>       CALIB NASHYD       01:CottExt1       4.29     .485 No_date   12:18   45.97
01020>        [CN= 80.8: N= 3.00]
01021>        [Tp=  .20:DT= 1.00]
01022>  001:0199---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01023>       CALIB NASHYD       02:CottExt2       1.65     .185 No_date   12:16   39.43
01024>        [CN= 76.2: N= 3.00]
01025>        [Tp=  .15:DT= 1.00]
01026>  001:0200---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01027>       CALIB NASHYD       03:CottExt5        .38     .027 No_date   12:26   38.75
01028>        [CN= 76.0: N= 3.00]
01029>        [Tp=  .12:DT= 1.00]
01030>  001:0201---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01031>       CALIB STANDHYD     05:CottB          2.49     .500 No_date   12:12   66.04
01032>        [XIMP=.43:TIMP=.59]
01033>        [LOSS= 2 :CN= 79.0]
01034>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01035>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
01036>  001:0202---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01037>       ADD HYD            01:CottExt1       4.29     .485 No_date   12:18   45.97
01038>                        +  02:CottExt2       1.65     .185 No_date   12:16   39.43
01039>                        +  03:CottExt5        .38     .027 No_date   12:26   38.75
01040>                        +  04:Pond 25yr    276.72    5.080 No_date   13:52   37.11
01041>                        +  05:CottB          2.49     .500 No_date   12:12   66.04
01042>        [DT= 1.00]  SUM=   06:SWM1 Outle   285.53    5.163 No_date   13:52   37.51
01043>  001:0203---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01044>       CALIB STANDHYD     02:CottA          3.26     .635 No_date   12:12   64.81
01045>        [XIMP=.40:TIMP=.56]
01046>        [LOSS= 2 :CN= 79.0]
01047>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01048>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
01049>  001:0204---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01050>       CALIB NASHYD       03:CottExt6        .42     .057 No_date   12:13   38.75
01051>        [CN= 76.0: N= 3.00]
01052>        [Tp=  .09:DT= 1.00]
01053>  001:0205---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01054>       ADD HYD            02:CottA          3.26     .635 No_date   12:12   64.81
01055>                        +  03:CottExt6       .42     .057 No_date   12:13   38.75
01056>                        +  06:SWM1 Outle   285.53    5.163 No_date   13:52   37.51
01057>        [DT= 1.00]  SUM=   04:Sunset Out   289.21    5.201 No_date   13:52   37.82
01058> #*************************************************************************
01059> #**************************50 year SCS 24HR HII Storm*********************
01060> #*************************************************************************
01061>  001:0206-------------------------------------------------------------------
01062>       MASS STORM
01063>        Filename = C:\AUGUST\PRE\SCS\SCS24HII.mst
01064>        Comment  = 24 hour SCS II storm mass curve
01065>        [SDT= 1.00:SDUR=  24.00:PTOT=  96.00]
01066>  001:0207---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01067>       CALIB NASHYD       01:302           28.20    1.844 No_date   12:32   42.73
01068>        [CN= 74.2: N= 3.00]
01069>        [Tp=  .42:DT= 1.00]
01070>  001:0208---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01071>       ROUTE CHANNEL   -> 01:302           28.20    1.844 No_date   12:32   42.73
01072>        [RDT= 1.00] out<- 02:BCreek1       28.20    1.786 No_date   12:37   42.73
01073>        [L/S/n=  422./1.300/.070]
01074>        {Vmax= 1.132:Dmax=  .753}
01075>  001:0209---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01076>       CALIB NASHYD       03:201C          21.60     .861 No_date   12:44   34.08
01077>        [CN= 65.7: N= 3.00]
01078>        [Tp=  .59:DT= 1.00]
01079>  001:0210---------------ID:NHYD----------AREA---QPEAK-TpeakDate_hh:mm----R.V.-
01080>       ADD HYD            02:BCreek1       28.20    1.786 No_date   12:37   42.73
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                    +  03:201C          21.60     .861 No_date   12:44   34.08
      [DT= 1.00]  SUM=  04:Add1         49.80    2.632 No_date   12:39   38.98
001:0211---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 04:Add1         49.80    2.632 No_date   12:39   38.98
      [RDT= 1.00] out<-  01:Pipe1        49.80    2.631 No_date   12:39   38.98
      [L/S/n=  162./2.160/.013]
      {Vmax= 4.766:Dmax=  .730}
      {Din=  .90:Dused=  .90}
001:0212---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       02:301          44.80    2.315 No_date   12:43   42.52
      [CN= 74.0: N= 3.00]
      [Tp=  .58:DT= 1.00]
001:0213---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 02:301          44.80    2.315 No_date   12:43   42.52
      [RDT= 1.00] out<-  03:Overland1    44.80    1.410 No_date   13:20   42.52
      [L/S/n=  676./2.600/.070]
      {Vmax=  .225:Dmax=  .350}
001:0214---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       04:201K          9.77     .490 No_date   12:40   39.06
      [CN= 71.0: N= 3.00]
      [Tp=  .53:DT= 1.00]
001:0215---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            03:Overland1     44.80    1.410 No_date   13:20   42.52
                     +  04:201K          9.77     .490 No_date   12:40   39.06
      [DT= 1.00]  SUM=  02:Add2         54.57    1.720 No_date   13:10   41.90
001:0216---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 02:Add2         54.57    1.720 No_date   13:10   41.90
      [RDT= 1.00] out<-  03:BCreek2      54.57    1.718 No_date   13:11   41.90
      [L/S/n=  261./2.300/.070]
      {Vmax= 1.354:Dmax=  .620}
001:0217---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            01:Pipe1         49.80    2.631 No_date   12:39   38.98
                     +  03:BCreek2       54.57    1.718 No_date   13:11   41.90
      [DT= 1.00]  SUM=  02:Add2         104.37    3.966 No_date   12:46   40.50
001:0218---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 02:Add2        104.37    3.966 No_date   12:46   40.50
      [RDT= 1.00] out<-  03:BCreek3     104.37    3.963 No_date   12:48   40.50
      [L/S/n=  204./3.000/.070]
      {Vmax= 1.897:Dmax=  .908}
001:0219---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       01:201D          4.08     .109 No_date   12:37   20.57
      [CN= 46.2: N= 3.00]
      [Tp=  .48:DT= 1.00]
001:0220---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       02:201E          8.13     .357 No_date   12:45   38.80
      [CN= 67.6: N= 3.00]
      [Tp=  .62:DT= 1.00]
001:0221---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       04:201F          9.08     .525 No_date   12:52   56.67
      [CN= 81.9: N= 3.00]
      [Tp=  .75:DT= 1.00]
001:0222---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD     05:202B         16.01    2.135 No_date   12:14   51.58
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 49.0]
      {Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0}
      {Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0}
001:0223---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            01:201D          4.08     .109 No_date   12:37   20.57
                     +  02:201E          8.13     .357 No_date   12:45   38.80
                     +  03:BCreek3     104.37    3.963 No_date   12:48   40.50
                     +  04:201F          9.08     .525 No_date   12:52   56.67
                     +  05:202B         16.01    2.135 No_date   12:14   51.58
      [DT= 1.00]  SUM=  06:Add4         141.67    5.311 No_date   12:43   42.12
001:0224---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 06:Add4        141.67    5.311 No_date   12:43   42.12
      [RDT= 1.00] out<-  01:BCreek4     141.67    5.278 No_date   12:48   42.12
      [L/S/n=  647./3.000/.070]
      {Vmax= 2.059:Dmax= 1.061}
001:0225---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       02:201G          4.38     .234 No_date   12:51   51.04
      [CN= 78.4: N= 3.00]
      [Tp=  .72:DT= 1.00]
001:0226---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            01:BCreek4       141.67    5.278 No_date   12:48   42.12
                     +  02:201G          4.38     .234 No_date   12:51   51.04
      [DT= 1.00]  SUM=  03:Add5         146.05    5.511 No_date   12:48   42.39
001:0227---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       01:303          20.60    1.950 No_date   12:20   41.95
      [CN= 73.6: N= 3.00]
      [Tp=  .23:DT= 1.00]
001:0228---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 01:303          20.60    1.950 No_date   12:20   41.95
      [RDT= 1.00] out<-  02:Overland2    20.60     .911 No_date   12:57   41.95
      [L/S/n=  550./2.300/.070]
      {Vmax=  .208:Dmax=  .347}
001:0229---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       04:201A          23.20    1.391 No_date   12:35   42.44
      [CN= 73.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0230---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            02:Overland2     20.60     .911 No_date   12:57   41.95
                     +  04:201A          23.20    1.391 No_date   12:35   42.44
      [DT= 1.00]  SUM=  05:Add6         43.80    2.204 No_date   12:38   42.21
001:0231---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 05:Add6         43.80    2.204 No_date   12:38   42.21
      [RDT= 1.00] out<-  08:Overland3    43.80    1.641 No_date   13:09   42.21
      [L/S/n=  500./4.000/.070]
      {Vmax=  .268:Dmax=  .344}
001:0232---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       01:201J          16.40    1.053 No_date   12:34   43.99
      [CN= 74.8: N= 3.00]
      [Tp=  .45:DT= 1.00]
001:0233---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 01:201J         16.40    1.053 No_date   12:34   43.99
      [RDT= 1.00] out<-  02:Overland4    16.40     .630 No_date   13:25   43.99
      [L/S/n=  775./2.400/.070]
      {Vmax=  .198:Dmax=  .336}
001:0234---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       04:201B          14.30     .905 No_date   12:33   43.00
      [CN= 73.0: N= 3.00]
      [Tp=  .44:DT= 1.00]
001:0235---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       06:201L          27.60    1.479 No_date   12:42   43.98
      [CN= 74.8: N= 3.00]
      [Tp=  .58:DT= 1.00]
001:0236---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            02:Overland4     16.40     .630 No_date   13:25   43.99
                     +  04:201B          14.30     .905 No_date   12:33   43.00
                     +  06:201L          27.60    1.479 No_date   12:42   43.98
                     +  08:Overland3     43.80    1.641 No_date   13:09   42.21
      [DT= 1.00]  SUM=  07:Add7         102.10    4.141 No_date   12:51   43.08
001:0237---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 07:Add7        102.10    4.141 No_date   12:51   43.08
 *    [RDT= 1.00] out<-  01:Pipe2       102.10    4.137 No_date   12:52   43.08
      [L/S/n=  450./1.500/.013]
      {Vmax= 4.643:Dmax=  .934}
      {Din=  .75:Dused= 1.14}
001:0238---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       02:201H          9.17     .233 No_date   12:36   19.34
      [CN= 43.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0239---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 02:201H          9.17     .233 No_date   12:36   19.34
      [RDT= 1.00] out<-  04:Pipe3         9.17     .232 No_date   12:39   19.34
      [L/S/n=  435./1.300/.013]
      {Vmax= 2.236:Dmax=  .255}
      {Din=  .53:Dused=  .53}
001:0240---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD     05:202C          12.60    2.478 No_date   12:14   71.21
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
001:0241---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            01:Pipe2        102.10    4.137 No_date   12:52   43.08
                     +  04:Pipe3          9.17     .232 No_date   12:39   19.34
                     +  05:202C          12.60    2.478 No_date   12:14   71.21
      [DT= 1.00]  SUM=  06:Add8         123.87    4.696 No_date   12:47   44.19
001:0242---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 06:Add8        123.87    4.696 No_date   12:47   44.19
 *    [RDT= 1.00] out<-  01:Pipe4       123.87    4.695 No_date   12:47   44.19
      [L/S/n=  305./5.000/.013]
      {Vmax= 7.525:Dmax=  .781}
      {Din=  .75:Dused=  .95}
001:0243---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            01:Pipe4         123.87    4.695 No_date   12:47   44.19
                     +  03:Add5          146.05    5.511 No_date   12:48   42.39
      [DT= 1.00]  SUM=  02:Add9         269.92   10.205 No_date   12:48   43.21
001:0244---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       01:SWMF           6.80    1.843 No_date   12:12   74.58
      [CN= 91.7: N= 3.00]
      [Tp=  .05:DT= 1.00]
001:0245---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            01:SWMF           6.80    1.843 No_date   12:12   74.58
                     +  02:Add9         269.92   10.205 No_date   12:48   43.21
      [DT= 1.00]  SUM=  03:Add10        276.72   10.358 No_date   12:48   43.98
001:0246---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE RESERVOIR -> 03:Add10        276.72   10.358 No_date   12:48   43.98
      [RDT= 1.00] out<-  01:SWM1        271.94    5.834 No_date   13:23   43.98
            overflow <-  02:Spillflow     4.78    2.356 No_date   13:23   43.98
      {MxStoUsed=.3836E+01, TotOvfVol=.2104E+00, N-Ovf=    2, TotDurOvf=    1.hrs
001:0247---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            01:SWM1          271.94    5.834 No_date   13:23   43.98
                     +  02:Spillflow       4.78    2.356 No_date   13:23   43.98
      [DT= 1.00]  SUM=  04:Pond 50yr     276.72    8.190 No_date   13:23   43.98
001:0248---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     SAVE HYD           04:Pond 50yr     276.72    8.190 No_date   13:23   43.98
      fname :C:\AUGUST\PRE\SCS\Pond50yr.001
      remark:Pond50yr
001:0249---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       01:CottExt1       4.29     .569 No_date   12:18   53.92
      [CN= 80.8: N= 3.00]
      [Tp=  .20:DT= 1.00]
001:0250---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       02:CottExt2       1.65     .220 No_date   12:16   46.76
      [CN= 76.2: N= 3.00]
      [Tp=  .15:DT= 1.00]
001:0251---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       03:CottExt5        .38     .032 No_date   12:25   46.04
      [CN= 76.0: N= 3.00]
      [Tp=  .32:DT= 1.00]
001:0252---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD     05:CottB          2.49     .571 No_date   12:12   74.94
      [XIMP=.43:TIMP=.59]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
001:0253---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            01:CottExt1       4.29     .569 No_date   12:18   53.92
                     +  02:CottExt2       1.65     .220 No_date   12:16   46.76
                     +  03:CottExt5        .38     .032 No_date   12:25   46.04
                     +  04:Pond 50yr     276.72    8.190 No_date   13:23   43.98
                     +  05:CottB          2.49     .571 No_date   12:12   74.94
      [DT= 1.00]  SUM=  06:SWM1 Outle   285.53    8.304 No_date   13:23   44.42
001:0254---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD     02:CottA          3.26     .727 No_date   12:12   73.66
      [XIMP=.40:TIMP=.56]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
001:0255---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       03:CottExt6        .42     .068 No_date   12:13   46.04
      [CN= 76.0: N= 3.00]
      [Tp=  .09:DT= 1.00]
001:0256---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            02:CottA          3.26     .727 No_date   12:12   73.66
                     +  03:CottExt6       .42     .068 No_date   12:13   46.04
                     +  06:SWM1 Outle   285.53    8.304 No_date   13:23   44.42
      [DT= 1.00]  SUM=  04:Sunset Out   289.21    8.350 No_date   13:23   44.75
#*************************************************************************
#**********************100 year SCS 24HR HII Storm**************************
#*************************************************************************
001:0257---------------------------------------------------------------------
     MASS STORM
      Filename = C:\AUGUST\PRE\SCS\SCS24HII.mst
      Comment  = 24 hour SCS II storm mass curve
      [SDT= 1.00:SDUR=  24.00:PTOT= 108.00]
001:0258---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       01:302           28.20    2.251 No_date   12:32   51.86
      [CN= 74.2: N= 3.00]
      [Tp=  .42:DT= 1.00]
001:0259---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 01:302          28.20    2.251 No_date   12:32   51.86
      [RDT= 1.00] out<-  02:BCreek1      28.20    2.185 No_date   12:37   51.86
      [L/S/n=  422./1.300/.070]
      {Vmax= 1.200:Dmax=  .839}
001:0260---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       03:201C          21.60    1.068 No_date   12:44   41.91
      [CN= 65.7: N= 3.00]
      [Tp=  .59:DT= 1.00]
001:0261---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            02:BCreek1        28.20    2.185 No_date   12:37   51.86
                     +  03:201C          21.60    1.068 No_date   12:44   41.91
      [DT= 1.00]  SUM=  04:Add1         49.80    3.230 No_date   12:38   47.55
001:0262---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 04:Add1        49.80    3.230 No_date   12:38   47.55
 *    [RDT= 1.00] out<-  01:Pipe1       49.80    3.229 No_date   12:39   47.55
      [L/S/n=  162./2.160/.013]
      {Vmax= 5.003:Dmax=  .794}
      {Din=  .90:Dused=  .97}
001:0263---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       02:301           44.80    2.829 No_date   12:42   51.62
      [CN= 74.0: N= 3.00]
      [Tp=  .58:DT= 1.00]
001:0264---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 02:301          44.80    2.829 No_date   12:42   51.62
      [RDT= 1.00] out<-  03:Overland1    44.80    1.749 No_date   13:18   51.62
      [L/S/n=  676./2.600/.070]
      {Vmax=  .234:Dmax=  .355}
001:0265---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD       04:201K           9.77     .603 No_date   12:39   47.69
      [CN= 71.0: N= 3.00]
      [Tp=  .53:DT= 1.00]
001:0266---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD            03:Overland1      44.80    1.749 No_date   13:18   51.62
                     +  04:201K           9.77     .603 No_date   12:39   47.69
      [DT= 1.00]  SUM=  02:Add2         54.57    2.139 No_date   13:08   50.91
001:0267---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL    -> 02:Add2        54.57    2.139 No_date   13:08   50.91
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01351>       [RDT= 1.00] out<- 03:BCreek2        54.57    2.135 No_date   13:11   50.91
01352>        [L/S/n=  261./2.300/.070]
01353>        [Vmax= 1.443:Dmax=  .698]
01354> 001:0268---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01355>      ADD HYD              01:Pipe1        49.80    3.229 No_date   12:39   47.55
01356>                       +   03:BCreek2      54.57    2.135 No_date   13:11   50.91
01357>        [DT= 1.00]  SUM=   02:Add3        104.37    4.917 No_date   12:46   49.31
01358> 001:0269---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01359>      ROUTE CHANNEL    -> 02:Add3         104.37    4.917 No_date   12:46   49.31
01360>        [RDT= 1.00] out<- 03:BCreek3      104.37    4.912 No_date   12:47   49.31
01361>        [L/S/n=  204./3.000/.070]
01362>        [Vmax= 2.014:Dmax= 1.018]
01363> 001:0270---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01364>      CALIB NASHYD         01:201D          4.08     .137 No_date   12:37   25.70
01365>        [CN= 46.2: N= 3.00]
01366>        [Tp=  .48:DT= 1.00]
01367> 001:0271---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01368>      CALIB NASHYD         02:201E          8.13     .436 No_date   12:45   47.07
01369>        [CN= 67.6: N= 3.00]
01370>        [Tp=  .62:DT= 1.00]
01371> 001:0272---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01372>      CALIB NASHYD         04:201F          9.08     .623 No_date   12:52   67.06
01373>        [CN= 81.9: N= 3.00]
01374>        [Tp=  .75:DT= 1.00]
01375> 001:0273---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01376>      CALIB STANDHYD       05:202B         16.01    2.541 No_date   12:14   60.03
01377>        [XIMP=.35:TIMP=.50]
01378>        [LOSS= 2 :CN= 49.0]
01379>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01380>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
01381> 001:0274---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01382>      ADD HYD              01:201D          4.08     .137 No_date   12:37   25.70
01383>                       +   02:201E          8.13     .436 No_date   12:45   47.07
01384>                       +   03:BCreek3      104.37    4.912 No_date   12:47   49.31
01385>                       +   04:201F          9.08     .623 No_date   12:52   67.06
01386>                       +   05:202B         16.01    2.541 No_date   12:14   60.03
01387>        [DT= 1.00]  SUM=   06:Add4        141.67    6.506 No_date   12:44   50.85
01388> 001:0275---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01389>      ROUTE CHANNEL    -> 06:Add4         141.67    6.506 No_date   12:44   50.85
01390>        [RDT= 1.00] out<- 01:BCreek4      141.67    6.463 No_date   12:49   50.85
01391>        [L/S/n=  647./3.000/.070]
01392>        [Vmax= 2.173:Dmax= 1.180]
01393> 001:0276---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01394>      CALIB NASHYD         02:201G          4.38     .280 No_date   12:51   60.91
01395>        [CN= 78.4: N= 3.00]
01396>        [Tp=  .72:DT= 1.00]
01397> 001:0277---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01398>      ADD HYD              01:BCreek4      141.67    6.463 No_date   12:49   50.85
01399>                       +   02:201G          4.38     .280 No_date   12:51   60.91
01400>        [DT= 1.00]  SUM=   03:Add5        146.05    6.742 No_date   12:49   51.15
01401> 001:0278---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01402>      CALIB NASHYD         01:303          20.60    2.380 No_date   12:20   50.99
01403>        [CN= 73.6: N= 3.00]
01404>        [Tp=  .23:DT= 1.00]
01405> 001:0279---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01406>      ROUTE CHANNEL    -> 01:303          20.60    2.380 No_date   12:20   50.99
01407>        [RDT= 1.00] out<- 02:Overland2    20.60    1.066 No_date   12:59   50.99
01408>        [L/S/n=  550./2.300/.070]
01409>        [Vmax=  .215:Dmax=  .352]
01410> 001:0280---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01411>      CALIB NASHYD         04:201A          23.20    1.699 No_date   12:35   51.53
01412>        [CN= 73.9: N= 3.00]
01413>        [Tp=  .47:DT= 1.00]
01414> 001:0281---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01415>      ADD HYD              02:Overland2    20.60    1.066 No_date   12:59   50.99
01416>                       +   04:201A         23.20    1.699 No_date   12:35   51.53
01417>        [DT= 1.00]  SUM=   05:Add6        43.80    2.718 No_date   12:37   51.27
01418> 001:0282---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01419>      ROUTE CHANNEL    -> 05:Add6         43.80    2.718 No_date   12:37   51.27
01420>        [RDT= 1.00] out<- 08:Overland3    43.80    2.009 No_date   13:07   51.27
01421>        [L/S/n=  500./4.000/.070]
01422>        [Vmax=  .276:Dmax=  .348]
01423> 001:0283---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01424>      CALIB NASHYD         01:201J         16.40    1.281 No_date   12:34   53.24
01425>        [CN= 74.8: N= 3.00]
01426>        [Tp=  .45:DT= 1.00]
01427> 001:0284---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01428>      ROUTE CHANNEL    -> 01:201J         16.40    1.281 No_date   12:34   53.24
01429>        [RDT= 1.00] out<- 02:Overland4    16.40     .718 No_date   13:29   53.23
01430>        [L/S/n=  775./2.400/.070]
01431>        [Vmax=  .201:Dmax=  .339]
01432> 001:0285---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01433>      CALIB NASHYD         04:201B         14.30    1.101 No_date   12:33   52.01
01434>        [CN= 73.0: N= 3.00]
01435>        [Tp=  .44:DT= 1.00]
01436> 001:0286---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01437>      CALIB NASHYD         06:201L         27.60    1.800 No_date   12:42   53.23
01438>        [CN= 74.8: N= 3.00]
01439>        [Tp=  .58:DT= 1.00]
01440> 001:0287---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01441>      ADD HYD              02:Overland4    16.40     .718 No_date   13:29   53.23
01442>                       +   04:201B         14.30    1.101 No_date   12:33   52.01
01443>                       +   06:201L         27.60    1.800 No_date   12:42   53.23
01444>                       +   08:Overland3    43.80    2.009 No_date   13:07   51.27
01445>        [DT= 1.00]  SUM=   07:Add7        102.10    5.067 No_date   12:49   52.22
01446> 001:0288---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01447>      ROUTE PIPE       -> 07:Add7         102.10    5.067 No_date   12:49   52.22
01448> *    [RDT= 1.00] out<- 01:Pipe2        102.10    5.063 No_date   12:51   52.22
01449>        [L/S/n=  450./1.500/.013]
01450>        [Vmax= 4.883:Dmax= 1.007]
01451>        [Din=  .75:Dused= 1.23]
01452> 001:0289---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01453>      CALIB NASHYD         02:201H          9.17     .293 No_date   12:36   24.18
01454>        [CN= 43.9: N= 3.00]
01455>        [Tp=  .47:DT= 1.00]
01456> 001:0290---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01457>      ROUTE PIPE       -> 02:201H          9.17     .293 No_date   12:36   24.18
01458>        [RDT= 1.00] out<- 04:Pipe3          9.17     .292 No_date   12:39   24.18
01459>        [L/S/n=  435./1.300/.013]
01460>        [Vmax= 2.365:Dmax=  .292]
01461>        [Din=  .53:Dused=  .53]
01462> 001:0291---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01463>      CALIB STANDHYD       05:202C         12.60    2.894 No_date   12:14   82.27
01464>        [XIMP=.35:TIMP=.50]
01465>        [LOSS= 2 :CN= 79.0]
01466>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01467>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
01468> 001:0292---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01469>      ADD HYD              01:Pipe2       102.10    5.063 No_date   12:51   52.22
01470>                       +   04:Pipe3         9.17     .292 No_date   12:39   24.18
01471>                       +   05:202C        12.60    2.894 No_date   12:14   82.27
01472>        [DT= 1.00]  SUM=   06:Add8        123.87    5.734 No_date   12:46   53.20
01473> 001:0293---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01474>      ROUTE PIPE       -> 06:Add8         123.87    5.734 No_date   12:46   53.20
01475> *    [RDT= 1.00] out<- 01:Pipe4        123.87    5.732 No_date   12:47   53.20
01476>        [L/S/n=  305./5.000/.013]
01477>        [Vmax= 7.910:Dmax=  .842]
01478>        [Din=  .75:Dused= 1.03]
01479> 001:0294---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01480>      ADD HYD              01:Pipe4       123.87    5.732 No_date   12:47   53.20
01481>                       +   03:Add5        146.05    6.742 No_date   12:49   51.15
01482>        [DT= 1.00]  SUM=   02:Add9        269.92   12.468 No_date   12:48   52.09
01483> 001:0295---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01484>      CALIB NASHYD         01:SWMF          6.80    2.107 No_date   12:12   86.15
01485>        [CN= 91.7: N= 3.00]
01486>        [Tp=  .05:DT= 1.00]
01487> 001:0296---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01488>      ADD HYD              01:SWMF          6.80    2.107 No_date   12:12   86.15
01489>                       +   02:Add9        269.92   12.468 No_date   12:48   52.09
01490>        [DT= 1.00]  SUM=   03:Add10       276.72   12.643 No_date   12:48   52.93
01491> 001:0297---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01492>      ROUTE RESERVOIR -> 03:Add10        276.72   12.643 No_date   12:48   52.93
01493>        [RDT= 1.00] out<- 01:SWM1        251.79    5.834 No_date   12:58   52.92
01494>              overflow <= 02:Spillflow    24.93    6.490 No_date   12:58   52.93
01495>        [MxStoUsed=.3836E+01, TotOvfVol=.1319E+01, N-Ovf=    2, TotDurOvf=    1.hrs
01496> 001:0298---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01497>      ADD HYD              01:SWM1        251.79    5.834 No_date   12:58   52.92
01498>                       +   02:Spillflow    24.93    6.490 No_date   12:58   52.93
01499>        [DT= 1.00]  SUM=   04:Pond 100yr  276.72   12.324 No_date   12:58   52.92
01500> 001:0299---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01501>      SAVE HYD             04:Pond 100yr  276.72   12.324 No_date   12:58   52.92
01502>        fname :C:\AUGUST\PRE\SCS\Pond100yr.001
01503>        remark:Pond100yr
01504> 001:0300---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01505>      CALIB NASHYD         01:CottExt1      4.29     .677 No_date   12:18   64.13
01506>        [CN= 80.8: N= 3.00]
01507>        [Tp=  .20:DT= 1.00]
01508> 001:0301---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01509>      CALIB NASHYD         02:CottExt2      1.65     .264 No_date   12:16   56.26
01510>        [CN= 76.2: N= 3.00]
01511>        [Tp=  .15:DT= 1.00]
01512> 001:0302---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01513>      CALIB NASHYD         03:CottExt5       .38     .039 No_date   12:25   55.49
01514>        [CN= 76.0: N= 3.00]
01515>        [Tp=  .32:DT= 1.00]
01516> 001:0303---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01517>      CALIB STANDHYD       05:CottB         2.49     .671 No_date   12:12   86.20
01518>        [XIMP=.43:TIMP=.59]
01519>        [LOSS= 2 :CN= 79.0]
01520>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01521>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
01522> 001:0304---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01523>      ADD HYD              01:CottExt1      4.29     .677 No_date   12:18   64.13
01524>                       +   02:CottExt2      1.65     .264 No_date   12:16   56.26
01525>                       +   03:CottExt5       .38     .039 No_date   12:25   55.49
01526>                       +   04:Pond 100yr  276.72   12.324 No_date   12:58   52.92
01527>                       +   05:CottB        2.49     .671 No_date   12:12   86.20
01528>        [DT= 1.00]  SUM=   06:SWM1 Outle  285.53   12.553 No_date   12:58   53.41
01529> 001:0305---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01530>      CALIB STANDHYD       02:CottA         3.26     .844 No_date   12:12   84.85
01531>        [XIMP=.40:TIMP=.56]
01532>        [LOSS= 2 :CN= 79.0]
01533>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01534>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
01535> 001:0306---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01536>      CALIB NASHYD         03:CottExt6       .42     .082 No_date   12:13   55.49
01537>        [CN= 76.0: N= 3.00]
01538>        [Tp=  .09:DT= 1.00]
01539> 001:0307---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01540>      ADD HYD              02:CottA         3.26     .844 No_date   12:12   84.85
01541>                       +   03:CottExt6       .42     .082 No_date   12:13   55.49
01542>                       +   06:SWM1 Outle  285.53   12.553 No_date   12:58   53.41
01543>        [DT= 1.00]  SUM=   04:Sunset Out  289.21   12.639 No_date   12:58   53.76
01544> #*************************************************************************
01545> #************************Regional Timmins Storm*******************************
01546> #*************************************************************************
01547> 001:0308-------------------------------------------------------------------
01548>      READ STORM
01549>        Filename = tim.stm
01550>        Comment  =
01551>        [SDT=60.00:SDUR=  12.00:PTOT= 193.00]
01552> 001:0309---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01553>      CALIB NASHYD         01:302          28.20    2.337 No_date    7:08  123.80
01554>        [CN= 74.2: N= 3.00]
01555>        [Tp=  .42:DT= 1.00]
01556> 001:0310---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01557>      ROUTE CHANNEL    -> 01:302          28.20    2.337 No_date    7:08  123.80
01558>        [RDT= 1.00] out<- 02:BCreek1      28.20    2.312 No_date    7:12  123.80
01559>        [L/S/n=  422./1.300/.070]
01560>        [Vmax= 1.212:Dmax=  .856]
01561> 001:0311---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01562>      CALIB NASHYD         03:201C         21.60    1.371 No_date    7:18  106.43
01563>        [CN= 65.7: N= 3.00]
01564>        [Tp=  .59:DT= 1.00]
01565> 001:0312---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01566>      ADD HYD              02:BCreek1      28.20    2.312 No_date    7:12  123.80
01567>                       +   03:201C         21.60    1.371 No_date    7:18  106.43
01568>        [DT= 1.00]  SUM=   04:Add1        49.80    3.673 No_date    7:13  116.27
01569> 001:0313---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01570>      ROUTE PIPE       -> 04:Add1         49.80    3.673 No_date    7:13  116.27
01571> *    [RDT= 1.00] out<- 01:Pipe1        49.80    3.673 No_date    7:14  116.27
01572>        [L/S/n=  162./2.160/.013]
01573>        [Vmax= 5.166:Dmax=  .834]
01574>        [Din=  .90:Dused= 1.02]
01575> 001:0314---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01576>      CALIB NASHYD         02:301          44.80    3.360 No_date    7:16  123.39
01577>        [CN= 74.0: N= 3.00]
01578>        [Tp=  .58:DT= 1.00]
01579> 001:0315---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01580>      ROUTE CHANNEL    -> 02:301          44.80    3.360 No_date    7:16  123.39
01581>        [RDT= 1.00] out<- 03:Overland1    44.80    2.637 No_date    7:52  123.39
01582>        [L/S/n=  676./2.600/.070]
01583>        [Vmax=  .244:Dmax=  .361]
01584> 001:0316---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01585>      CALIB NASHYD         04:201K          9.77     .713 No_date    7:14  116.89
01586>        [CN= 71.0: N= 3.00]
01587>        [Tp=  .53:DT= 1.00]
01588> 001:0317---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01589>      ADD HYD              03:Overland1    44.80    2.637 No_date    7:52  123.39
01590>                       +   04:201K         9.77     .713 No_date    7:14  116.89
01591>        [DT= 1.00]  SUM=   02:Add2        54.57    3.211 No_date    7:43  122.22
01592> 001:0318---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01593>      ROUTE CHANNEL    -> 02:Add2         54.57    3.211 No_date    7:43  122.22
01594>        [RDT= 1.00] out<- 03:BCreek2      54.57    3.209 No_date    7:45  122.22
01595>        [L/S/n=  261./2.300/.070]
01596>        [Vmax= 1.625:Dmax=  .870]
01597> 001:0319---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01598>      ADD HYD              01:Pipe1        49.80    3.673 No_date    7:14  116.27
01599>                       +   03:BCreek2      54.57    3.209 No_date    7:45  122.22
01600>        [DT= 1.00]  SUM=   02:Add3        104.37    6.590 No_date    7:22  119.38
01601> 001:0320---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01602>      ROUTE CHANNEL    -> 02:Add3         104.37    6.590 No_date    7:22  119.38
01603>        [RDT= 1.00] out<- 03:BCreek3      104.37    6.586 No_date    7:23  119.38
01604>        [L/S/n=  204./3.000/.070]
01605>        [Vmax= 2.180:Dmax= 1.188]
01606> 001:0321---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01607>      CALIB NASHYD         01:201D          4.08     .179 No_date    7:13   71.79
01608>        [CN= 46.2: N= 3.00]
01609>        [Tp=  .48:DT= 1.00]
01610> 001:0322---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01611>      CALIB NASHYD         02:201E          8.13     .539 No_date    7:19  113.95
01612>        [CN= 67.6: N= 3.00]
01613>        [Tp=  .62:DT= 1.00]
01614> 001:0323---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01615>      CALIB NASHYD         04:201F          9.08     .718 No_date    7:26  145.20
01616>        [CN= 81.9: N= 3.00]
01617>        [Tp=  .75:DT= 1.00]
01618> 001:0324---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01619>      CALIB STANDHYD       05:202B         16.01    1.331 No_date    7:00  126.10
01620>        [XIMP=.35:TIMP=.50]
```

```
      [LOSS= 2 :CN= 49.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
001:0325----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             01:201D          4.08      .179 No_date    7:13   71.79
                      + 02:201E          8.13      .539 No_date    7:19  113.95
                      + 03:BCreek3     104.37    6.586 No_date    7:23  119.38
                      + 04:201F          9.08      .718 No_date    7:26  145.20
                      + 05:202B         16.01    1.331 No_date    7:00  126.10
    [DT= 1.00]  SUM=  06:Add4          141.67    8.869 No_date    7:18  120.11
001:0326----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 06:Add4         141.67    8.847 No_date    7:18  120.11
      [RDT= 1.00] out<- 01:BCreek4     141.67    8.847 No_date    7:21  120.11
      [L/S/n=  647./3.000/.070]
      {Vmax= 2.356:Dmax= 1.386}
001:0327----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        02:201G          4.38      .332 No_date    7:24  136.54
      [CN= 78.4: N= 3.00]
      [Tp=  .72:DT= 1.00]
001:0328----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             01:BCreek4     141.67    8.847 No_date    7:21  120.11
                      + 02:201G          4.38      .332 No_date    7:24  136.54
    [DT= 1.00]  SUM=  03:Add5          146.05    9.178 No_date    7:22  120.61
001:0329----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        01:303           20.60    1.845 No_date    7:02  122.41
      [CN= 73.6: N= 3.00]
      [Tp=  .23:DT= 1.00]
001:0330----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:303          20.60    1.845 No_date    7:02  122.41
      [RDT= 1.00] out<- 02:Overland2   20.60    1.343 No_date    7:17  122.41
      [L/S/n=  550./2.300/.070]
      {Vmax=  .206:Dmax=  .346}
001:0331----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        04:201A          23.20    1.857 No_date    7:10  123.22
      [CN= 73.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0332----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             02:Overland2     20.60    1.343 No_date    7:17  122.41
                      + 04:201A          23.20    1.857 No_date    7:10  123.22
    [DT= 1.00]  SUM=  05:Add6          43.80    3.187 No_date    7:13  122.84
001:0333----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 05:Add6         43.80    3.187 No_date    7:13  122.84
      [RDT= 1.00] out<- 08:Overland3   43.80    2.746 No_date    7:36  122.84
      [L/S/n=  500./4.000/.070]
      {Vmax=  .284:Dmax=  .352}
001:0334----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        01:201J          16.40    1.354 No_date    7:09  125.74
      [CN= 74.8: N= 3.00]
      [Tp=  .45:DT= 1.00]
001:0335----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:201J         16.40    1.354 No_date    7:09  125.74
      [RDT= 1.00] out<- 02:Overland4   16.40      .884 No_date    7:56  125.74
      [L/S/n=  775./2.400/.070]
      {Vmax=  .202:Dmax=  .340}
001:0336----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        04:201B          14.30    1.157 No_date    7:09  123.22
      [CN= 73.0: N= 3.00]
      [Tp=  .44:DT= 1.00]
001:0337----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        06:201L          27.60    2.106 No_date    7:16  125.74
      [CN= 74.8: N= 3.00]
      [Tp=  .58:DT= 1.00]
001:0338----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             02:Overland4     16.40      .884 No_date    7:56  125.74
                      + 04:201B          14.30    1.157 No_date    7:09  123.22
                      + 06:201L          27.60    2.106 No_date    7:16  125.74
                      + 08:Overland3     43.80    2.746 No_date    7:36  122.84
    [DT= 1.00]  SUM=  07:Add7          102.10    6.598 No_date    7:24  124.14
001:0339----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 07:Add7         102.10    6.598 No_date    7:24  124.14
*   [RDT= 1.00] out<- 01:Pipe2         102.10    6.596 No_date    7:25  124.14
      [L/S/n=  450./1.500/.013]
      {Vmax= 5.216:Dmax= 1.112}
      [Din=  .75:Dused= 1.35}
001:0340----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        02:201H           9.17      .383 No_date    7:12   68.06
      [CN= 43.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0341----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 02:201H           9.17      .383 No_date    7:12   68.06
      [RDT= 1.00] out<- 04:Pipe3         9.17      .382 No_date    7:15   68.06
      [L/S/n=  435./1.300/.013]
      {Vmax= 2.505:Dmax=  .349}
      [Din=  .53:Dused=  .53}
001:0342----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD      05:202C          12.60    1.379 No_date    7:00  163.31
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
001:0343----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             01:Pipe2         102.10    6.596 No_date    7:25  124.14
                      + 04:Pipe3           9.17      .382 No_date    7:15   68.06
                      + 05:202C           12.60    1.379 No_date    7:00  163.31
    [DT= 1.00]  SUM=  06:Add8          123.87    7.819 No_date    7:16  123.97
001:0344----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 06:Add8         123.87    7.819 No_date    7:16  123.97
*   [RDT= 1.00] out<- 01:Pipe4         123.87    7.818 No_date    7:16  123.97
      [L/S/n=  305./5.000/.013]
      {Vmax= 8.548:Dmax=  .945}
      [Din=  .75:Dused= 1.15}
001:0345----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             01:Pipe4         123.87    7.818 No_date    7:16  123.97
                      + 03:Add5          146.05    9.178 No_date    7:22  120.61
    [DT= 1.00]  SUM=  02:Add9          269.92   16.985 No_date    7:20  122.15
001:0346----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        01:SWMF           6.80      .788 No_date    7:00  169.50
      [CN= 91.7: N= 3.00]
      [Tp=  .05:DT= 1.00]
001:0347----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             01:SWMF           6.80      .788 No_date    7:00  169.50
                      + 02:Add9          269.92   16.985 No_date    7:20  122.15
    [DT= 1.00]  SUM=  03:Add10         276.72   17.353 No_date    7:20  123.31
001:0348----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE RESERVOIR -> 03:Add10        276.72   17.353 No_date    7:20  123.31
      [RDT= 1.00] out<- 01:SWM1        171.10    5.834 No_date    6:42  123.31
            overflow <- 02:Spillflow   105.62   11.518 No_date    7:20  123.31
    {MxStoUsed=.3836E+01, TotOvfVol=.1302E+02, N-Ovf=    2, TotDurOvf=    6.hrs
001:0349----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             01:SWM1          171.10    5.834 No_date    6:42  123.31
                      + 02:Spillflow     105.62   11.518 No_date    7:20  123.31
    [DT= 1.00]  SUM=  04:Pond Reg      276.72   17.352 No_date    7:20  123.31
001:0350----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    SAVE HYD            04:Pond Reg      276.72   17.352 No_date    7:20  123.31
      fname :C:\AUGUST\PRE\SCS\PondReg.001
      remark:PondReg
001:0351----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        01:CottExt1       4.29      .437 No_date    7:01  141.43
      [CN= 80.8: N= 3.00]
      [Tp=  .20:DT= 1.00]
001:0352----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        02:CottExt2       1.65      .158 No_date    7:00  130.04
      [CN= 76.2: N= 3.00]
      [Tp=  .15:DT= 1.00]
001:0353----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        03:CottExt5        .38      .034 No_date    7:04  129.05
      [CN= 76.0: N= 3.00]
      [Tp=  .32:DT= 1.00]
001:0354----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD      05:CottB          2.49      .279 No_date    7:00  168.06
      [XIMP=.43:TIMP=.59]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
001:0355----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             01:CottExt1       4.29      .437 No_date    7:01  141.43
                      + 02:CottExt2       1.65      .158 No_date    7:00  130.04
                      + 03:CottExt5        .38      .034 No_date    7:04  129.05
                      + 04:Pond Reg     276.72   17.352 No_date    7:20  123.31
                      + 05:CottB          2.49      .279 No_date    7:00  168.06
    [DT= 1.00]  SUM=  06:SWM1 Outle    285.53   17.918 No_date    7:17  124.02
001:0356----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD      02:CottA          3.26      .364 No_date    7:00  166.45
      [XIMP=.40:TIMP=.56]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
001:0357----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD        03:CottExt6        .42      .040 No_date    7:00  129.05
      [CN= 76.0: N= 3.00]
      [Tp=  .09:DT= 1.00]
001:0358----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD             02:CottA          3.26      .364 No_date    7:00  166.45
                      + 03:CottExt6        .42      .040 No_date    7:00  129.05
                      + 06:SWM1 Outle    285.53   17.918 No_date    7:17  124.02
    [DT= 1.00]  SUM=  04:Sunset Out    289.21   18.159 No_date    7:15  124.50
001:0359----------------------------------------------------------------------
     FINISH
--------------------------------------------------------------------------------
**********************************************************************
     WARNINGS / ERRORS / NOTES
     -------------------------
001:0084 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0135 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0140 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0186 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0191 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0237 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0242 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0262 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0288 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0293 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0313 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0339 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
001:0344 ROUTE PIPE      ->
     *** WARNING: New pipe size used for routing.
  Simulation ended on 2018-08-09     at 16:39:21
**********************************************************************
```

```
00001> 2     Metric units
00002> *#*************************************************************************
00003> *#  Project Name: [Lora Bay Phase 4]                    Project Number:[469-3061]
00004> *#  Date        : August 9, 2018
00005> *#  Modeller    : [B. Ellsworth]
00006> *#  Company     : C.F. Crozier & Associates Inc.
00007> *#  License #   :  3737016
00008> *#*************************************************************************
00009> *#  Filename    :  Continuous Model
00010> *#  Continuous Model
00011> *#*************************************************************************
00012> *#*************************************************************************
00013> *#*************************************************************************
00014>
00015> *%----------|-------------------------------------------------------------|
00016> START              TZERO=[0.0],  METOUT=[2],  NSTORM=[0],   NRUN=[0]
00017> *%                 [  ] <--storm filename, one per line for NSTORM time
00018> *%----------|-------------------------------------------------------------|
00019> *#*************************************************************************
00020> *#**************************2 year Chicago Storm*****************************
00021> *#*************************************************************************
00022> *%----------|-------------------------------------------------------------|
00023> READ STORM          STORM_FILENAME=["2yr.stm"]
00024> *%----------|-------------------------------------------------------------|
00025> CALIB NASHYD       ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
00026>                    DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
00027>                    N=[3], TP=[0.42]hrs,
00028>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00029> *%----------|-------------------------------------------------------------|
00030> ROUTE CHANNEL      IDout=[2], NHYD=["BCreek1"], IDin=[1],
00031>                    RDT=[1](min),
00032>                    CHLGTH=[422](m),  CHSLOPE=[1.3](%),
00033>                                      FPSLOPE=[1.3](%),
00034>                    SECNUM=[1.1],     NSEG=[3]
00035>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00036>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00037>                                                  [1.75,1]
00038>                                                  [3.25,1]
00039>                                                  [5,3]
00040> *%----------|-------------------------------------------------------------|
00041> CALIB NASHYD       ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00042>                    DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
00043>                    N=[3], TP=[0.59]hrs,
00044>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00045> *%----------|-------------------------------------------------------------|
00046> ADD HYD            IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00047> *%----------|-------------------------------------------------------------|
00048> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00049>                    PDIAM=[900](mm), PLNGTH=[162](m),
00050>                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00051>                    RDT=[1](min)
00052> *%----------|-------------------------------------------------------------|
00053> CALIB NASHYD       ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00054>                    DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
00055>                    N=[3], TP=[0.58]hrs,
00056>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00057> *%----------|-------------------------------------------------------------|
00058> ROUTE CHANNEL      IDout=[3], NHYD=["Overland1"], IDin=[2],
00059>                    RDT=[1](min),
00060>                    CHLGTH=[676](m),  CHSLOPE=[2.6](%),
00061>                                      FPSLOPE=[2.6](%),
00062>                    SECNUM=[1.1],     NSEG=[3]
00063>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00064>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00065>                                                  [1000,1.7]
00066>                                                  [1001,1.4]
00067>                                                  [1002,1.7]
00068>                                                  [2000,2]
00069> *%----------|-------------------------------------------------------------|
00070> CALIB NASHYD       ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00071>                    DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
00072>                    N=[3], TP=[0.53]hrs,
00073>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00074> *%----------|-------------------------------------------------------------|
00075> ADD HYD            IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00076> *%----------|-------------------------------------------------------------|
00077> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek2"], IDin=[2],
00078>                    RDT=[1](min),
00079>                    CHLGTH=[261](m),  CHSLOPE=[2.3](%),
00080>                                      FPSLOPE=[2.3](%),
00081>                    SECNUM=[1.1],     NSEG=[3]
00082>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00083>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00084>                                                  [1.75,1]
00085>                                                  [3.25,1]
00086>                                                  [5,3]
00087> *%----------|-------------------------------------------------------------|
00088> ADD HYD            IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
00089> *%----------|-------------------------------------------------------------|
00090> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek3"], IDin=[2],
00091>                    RDT=[1](min),
00092>                    CHLGTH=[204](m),  CHSLOPE=[3](%),
00093>                                      FPSLOPE=[3](%),
00094>                    SECNUM=[1.1],     NSEG=[3]
00095>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00096>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00097>                                                  [1.75,1]
00098>                                                  [3.25,1]
00099>                                                  [5,3]
00100> *%----------|-------------------------------------------------------------|
00101> CALIB NASHYD       ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
00102>                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
00103>                    N=[3], TP=[0.48]hrs,
00104>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00105> *%----------|-------------------------------------------------------------|
00106> CALIB NASHYD       ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
00107>                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
00108>                    N=[3], TP=[0.62]hrs,
00109>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00110> *%----------|-------------------------------------------------------------|
00111> CALIB NASHYD       ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
00112>                    DWF=[0](cms),  CN/C=[61.9], IA=[4.55](mm),
00113>                    N=[3], TP=[0.75]hrs,
00114>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00115> *%----------|-------------------------------------------------------------|
00116> CALIB STANDHYD     ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
00117>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00118>                    SCS curve number CN=[49],
00119>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00120>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00121>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00122>                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
00123>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr) ,  END=-1
00124> *%----------|-------------------------------------------------------------|
00125> ADD HYD            IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
00126> *%----------|-------------------------------------------------------------|
00127> ROUTE CHANNEL      IDout=[1], NHYD=["BCreek4"], IDin=[6],
00128>                    RDT=[1](min),
00129>                    CHLGTH=[647](m),  CHSLOPE=[3](%),
00130>                                      FPSLOPE=[3](%),
00131>                    SECNUM=[1.1],     NSEG=[3]
00132>                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00133>                    ( DISTANCE (m), ELEVATION (m))=[0,3]
00134>                                                  [1.75,1]
00135>                                                  [3.25,1]
00136>                                                  [5,3]
00137> *%----------|-------------------------------------------------------------|
00138> CALIB NASHYD       ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
00139>                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
00140>                    N=[3], TP=[0.72]hrs,
00141>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00142> *%----------|-------------------------------------------------------------|
00143> ADD HYD            IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
00144> *%----------|-------------------------------------------------------------|
00145> CALIB NASHYD       ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
00146>                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
00147>                    N=[3], TP=[0.23]hrs,
00148>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00149> *%----------|-------------------------------------------------------------|
00150> ROUTE CHANNEL      IDout=[2], NHYD=["Overland2"], IDin=[1],
00151>                    RDT=[1](min),
00152>                    CHLGTH=[550](m),  CHSLOPE=[2.3](%),
00153>                                      FPSLOPE=[2.3](%),
00154>                    SECNUM=[1.1],     NSEG=[3]
00155>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00156>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00157>                                                  [1000,1.7]
00158>                                                  [1001,1.4]
00159>                                                  [1002,1.7]
00160>                                                  [2000,2]
00161> *%----------|-------------------------------------------------------------|
00162> CALIB NASHYD       ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
00163>                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
00164>                    N=[3], TP=[0.47]hrs,
00165>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00166>
00167> *%----------|-------------------------------------------------------------|
00168> ADD HYD            IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
00169> *%----------|-------------------------------------------------------------|
00170> ROUTE CHANNEL      IDout=[8], NHYD=["Overland3"], IDin=[5],
00171>                    RDT=[1](min),
00172>                    CHLGTH=[500](m),  CHSLOPE=[4.0](%),
00173>                                      FPSLOPE=[4.0](%),
00174>                    SECNUM=[1.1],     NSEG=[3]
00175>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00176>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00177>                                                  [1000,1.7]
00178>                                                  [1001,1.4]
00179>                                                  [1002,1.7]
00180>                                                  [2000,2]
00181> *%----------|-------------------------------------------------------------|
00182> CALIB NASHYD       ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
00183>                    DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
00184>                    N=[3], TP=[0.45]hrs,
00185>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00186> *%----------|-------------------------------------------------------------|
00187> ROUTE CHANNEL      IDout=[2], NHYD=["Overland4"], IDin=[1],
00188>                    RDT=[1](min),
00189>                    CHLGTH=[656](m),  CHSLOPE=[2.4](%),
00190>                                      FPSLOPE=[2.4](%),
00191>                    SECNUM=[1.1],     NSEG=[3]
00192>                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00193>                    ( DISTANCE (m), ELEVATION (m))=[0,2]
00194>                                                  [1000,1.7]
00195>                                                  [1001,1.4]
00196>                                                  [1002,1.7]
00197>                                                  [2000,2]
00198> *%----------|-------------------------------------------------------------|
00199> CALIB NASHYD       ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
00200>                    DWF=[0](cms),  CN/C=[75.5], IA=[8.35](mm),
00201>                    N=[3], TP=[0.54]hrs,
00202>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00203> *%----------|-------------------------------------------------------------|
00204> ADD HYD            IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
00205> *%----------|-------------------------------------------------------------|
00206> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
00207>                    PDIAM=[525](mm), PLNGTH=[410](m),
00208>                    PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
00209>                    RDT=[1](min)
00210> *%----------|-------------------------------------------------------------|
00211> CALIB NASHYD       ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
00212>                    DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
00213>                    N=[3], TP=[0.43]hrs,
00214>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00215> *%----------|-------------------------------------------------------------|
00216> CALIB STANDHYD     ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.88](ha),
00217>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00218>                    SCS curve number CN=[79],
00219>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00220>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00221>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00222>                                         LGI=[229.20](m), MNI=[0.013], SCI=[0](m
00223>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr) ,  END=-1
00224> *%----------|-------------------------------------------------------------|
00225> ADD HYD            IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
00226> *%----------|-------------------------------------------------------------|
00227> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
00228>                    PDIAM=[750](mm), PLNGTH=[450](m),
00229>                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
00230>                    RDT=[1](min)
00231> *%----------|-------------------------------------------------------------|
00232> CALIB NASHYD       ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
00233>                    DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
00234>                    N=[3], TP=[0.47]hrs,
00235>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00236> *%----------|-------------------------------------------------------------|
00237> ROUTE PIPE         PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
00238>                    PDIAM=[525](mm), PLNGTH=[435](m),
00239>                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
00240>                    RDT=[1](min)
00241> *%----------|-------------------------------------------------------------|
00242> CALIB STANDHYD     ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
00243>                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00244>                    SCS curve number CN=[79],
00245>                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00246>                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00247>                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00248>                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
00249>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr) ,  END=-1
00250> *%----------|-------------------------------------------------------------|
00251> ADD HYD            IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
00252> *%----------|-------------------------------------------------------------|
00253> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
00254>                    PDIAM=[750](mm), PLNGTH=[305](m),
00255>                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
00256>                    RDT=[1](min)
00257> *%----------|-------------------------------------------------------------|
00258> ADD HYD            IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
00259> *%----------|-------------------------------------------------------------|
00260> CALIB NASHYD       ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
00261>                    DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
00262>                    N=[3], TP=[0.05]hrs,
00263>                    RAINFALL=[  ,  ,  ,  ,  ](mm/hr),  END=-1
00264> *%----------|-------------------------------------------------------------|
00265> ADD HYD            IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
00266> *%----------|-------------------------------------------------------------|
00267> ROUTE RESERVOIR    IDout=[1],   NHYD=["SWM1"],  IDin=[3],
00268>                    RDT=[1](min),
00269>                          TABLE of ( OUTFLOW-STORAGE ) values
00270>                                   (cms) - (ha-m)
```

```
00271>                                  [   0.0 ,  0.0 ]
00272>                                  [  0.0097   ,   0.1406  ]
00273>                                  [  0.0352   ,   0.3212  ]
00274>                                  [  0.0764   ,   0.5018  ]
00275>                                  [  0.0986   ,   0.6823  ]
00276>                                  [  0.1547   ,   0.8629  ]
00277>                                  [  0.3283   ,   1.0435  ]
00278>                                  [  0.5673   ,   1.2430  ]
00279>                                  [  0.8560   ,   1.4426  ]
00280>                                  [  1.1868   ,   1.6421  ]
00281>                                  [  1.5548   ,   1.8417  ]
00282>                                  [  1.9562   ,   2.0412  ]
00283>                                  [  2.3891   ,   2.2712  ]
00284>                                  [  2.8505   ,   2.5013  ]
00285>                                  [  3.3385   ,   2.7313  ]
00286>                                  [  3.8521   ,   2.9614  ]
00287>                                  [  4.3895   ,   3.1914  ]
00288>                                  [  5.8341   ,   3.8362  ]
00289>                                  [   -1      ,   -1      ]  (max twenty pts)
00290>                          IDovf=[2], NHYDovf=["Spillflow"]
00291> *%----------------|-------------------------------------------------------------|
00292> ADD HYD          IDsum=[4], NHYD=["Pond 2yr"], IDs to add=[1+2]
00293> *%----------------|-------------------------------------------------------------|
00294> SAVE HYD         ID=[4],    # OF PCYCLES=[1],   ICASEsh=[-1]
00295>                  HYD_FILENAME=["Pond2yr"]
00296>                  HYD_COMMENT=["Pond2yr"]
00297> *%----------------|-------------------------------------------------------------|
00298> CALIB NASHYD     ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
00299>                  DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
00300>                  N=[3], TP=[0.21]hrs,
00301>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00302> *%----------------|-------------------------------------------------------------|
00303> CALIB NASHYD     ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
00304>                  DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
00305>                  N=[3], TP=[0.15]hrs,
00306>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00307> *%----------------|-------------------------------------------------------------|
00308> CALIB NASHYD     ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
00309>                  DWF=[0](cms),  CN/C=[76], IA=[8](mm),
00310>                  N=[3], TP=[0.32]hrs,
00311>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00312> *%----------------|-------------------------------------------------------------|
00313> CALIB STANDHYD    ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
00314>                  XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
00315>                  SCS curve number CN=[79],
00316>                  Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00317>                                       LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00318>                  Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00319>                                       LGI=[128.84](m), MNI=[0.013], SCI=[0](m
00320>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr) ,  END=-1
00321> *%----------------|-------------------------------------------------------------|
00322> ADD HYD          IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
00323> *%----------------|-------------------------------------------------------------|
00324> CALIB STANDHYD    ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
00325>                  XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
00326>                  SCS curve number CN=[79],
00327>                  Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00328>                                       LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00329>                  Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
00330>                                       LGI=[147.42](m), MNI=[0.013], SCI=[0](m
00331>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr) ,  END=-1
00332> *%----------------|-------------------------------------------------------------|
00333> CALIB NASHYD     ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
00334>                  DWF=[0](cms),  CN/C=[76], IA=[8](mm),
00335>                  N=[3], TP=[0.09]hrs,
00336>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00337> *%----------------|-------------------------------------------------------------|
00338> ADD HYD          IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
00339> *%----------------|-------------------------------------------------------------|
00340> *#*************************************************************************
00341> *#************************5 year Chicago Storm*****************************
00342> *#*************************************************************************
00343> *%----------------|-------------------------------------------------------------|
00344> READ STORM       STORM_FILENAME=["5yr.stm"]
00345> *%----------------|-------------------------------------------------------------|
00346> CALIB NASHYD     ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
00347>                  DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
00348>                  N=[3], TP=[0.42]hrs,
00349>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00350> *%----------------|-------------------------------------------------------------|
00351> ROUTE CHANNEL    IDout=[2], NHYD=["BCreek1"], IDin=[1],
00352>                  RDT=[1](min),
00353>                  CHLGTH=[422](m),   CHSLOPE=[1.3](%),
00354>                                     FPSLOPE=[1.3](%),
00355>                  SECNUM=[1.1],        NSEG=[3]
00356>                  ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00357>                  ( DISTANCE (m), ELEVATION (m))=[0,3]
00358>                                                 [1.75,1]
00359>                                                 [3.25,1]
00360>                                                 [5,3]
00361> *%----------------|-------------------------------------------------------------|
00362> CALIB NASHYD     ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00363>                  DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
00364>                  N=[3], TP=[0.59]hrs,
00365>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00366> *%----------------|-------------------------------------------------------------|
00367> ADD HYD          IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00368> *%----------------|-------------------------------------------------------------|
00369> ROUTE PIPE       PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00370>                  PDIAM=[900](mm), PLNGTH=[162](m),
00371>                  PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00372>                  RDT=[1](min)
00373> *%----------------|-------------------------------------------------------------|
00374> CALIB NASHYD     ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00375>                  DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
00376>                  N=[3], TP=[0.58]hrs,
00377>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00378> *%----------------|-------------------------------------------------------------|
00379> ROUTE CHANNEL    IDout=[3], NHYD=["Overland1"], IDin=[2],
00380>                  RDT=[1](min),
00381>                  CHLGTH=[676](m),   CHSLOPE=[2.6](%),
00382>                                     FPSLOPE=[2.6](%),
00383>                  SECNUM=[1.1],        NSEG=[3]
00384>                  ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00385>                  ( DISTANCE (m), ELEVATION (m))=[0,2]
00386>                                                 [1000,1.7]
00387>                                                 [1001,1.4]
00388>                                                 [1002,1.7]
00389>                                                 [2000,2]
00390> *%----------------|-------------------------------------------------------------|
00391> CALIB NASHYD     ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00392>                  DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
00393>                  N=[3], TP=[0.53]hrs,
00394>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00395> *%----------------|-------------------------------------------------------------|
00396> ADD HYD          IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00397> *%----------------|-------------------------------------------------------------|
00398> ROUTE CHANNEL    IDout=[3], NHYD=["BCreek2"], IDin=[2],
00399>                  RDT=[1](min),
00400>                  CHLGTH=[261](m),   CHSLOPE=[2.3](%),
00401>                                     FPSLOPE=[2.3](%),
00402>                  SECNUM=[1.1],        NSEG=[3]
00403>                  ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00404>                  ( DISTANCE (m), ELEVATION (m))=[0,3]
00405>                                                 [1.75,1]
00406>                                                 [3.25,1]
00407>                                                 [5,3]
00408> *%----------------|-------------------------------------------------------------|
00409> ADD HYD          IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
00410> *%----------------|-------------------------------------------------------------|
00411> ROUTE CHANNEL    IDout=[3], NHYD=["BCreek3"], IDin=[2],
00412>                  RDT=[1](min),
00413>                  CHLGTH=[204](m),   CHSLOPE=[3](%),
00414>                                     FPSLOPE=[3](%),
00415>                  SECNUM=[1.1],        NSEG=[3]
00416>                  ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00417>                  ( DISTANCE (m), ELEVATION (m))=[0,3]
00418>                                                 [1.75,1]
00419>                                                 [3.25,1]
00420>                                                 [5,3]
00421> *%----------------|-------------------------------------------------------------|
00422> CALIB NASHYD     ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
00423>                  DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
00424>                  N=[3], TP=[0.48]hrs,
00425>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00426> *%----------------|-------------------------------------------------------------|
00427> CALIB NASHYD     ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
00428>                  DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
00429>                  N=[3], TP=[0.62]hrs,
00430>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00431> *%----------------|-------------------------------------------------------------|
00432> CALIB NASHYD     ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
00433>                  DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
00434>                  N=[3], TP=[0.75]hrs,
00435>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00436> *%----------------|-------------------------------------------------------------|
00437> CALIB STANDHYD    ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
00438>                  XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00439>                  SCS curve number CN=[49],
00440>                  Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
00441>                                       LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
00442>                  Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
00443>                                       LGI=[326.70](m), MNI=[0.013], SCI=[0](m
00444>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr) ,  END=-1
00445> *%----------------|-------------------------------------------------------------|
00446> ADD HYD          IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
00447> *%----------------|-------------------------------------------------------------|
00448> ROUTE CHANNEL    IDout=[1], NHYD=["BCreek4"], IDin=[6],
00449>                  RDT=[1](min),
00450>                  CHLGTH=[647](m),   CHSLOPE=[3](%),
00451>                                     FPSLOPE=[3](%),
00452>                  SECNUM=[1.1],        NSEG=[3]
00453>                  ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00454>                  ( DISTANCE (m), ELEVATION (m))=[0,3]
00455>                                                 [1.75,1]
00456>                                                 [3.25,1]
00457>                                                 [5,3]
00458> *%----------------|-------------------------------------------------------------|
00459> CALIB NASHYD     ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
00460>                  DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
00461>                  N=[3], TP=[0.72]hrs,
00462>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00463> *%----------------|-------------------------------------------------------------|
00464> ADD HYD          IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
00465> *%----------------|-------------------------------------------------------------|
00466> CALIB NASHYD     ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
00467>                  DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
00468>                  N=[3], TP=[0.23]hrs,
00469>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00470> *%----------------|-------------------------------------------------------------|
00471> ROUTE CHANNEL    IDout=[2], NHYD=["Overland2"], IDin=[1],
00472>                  RDT=[1](min),
00473>                  CHLGTH=[550](m),   CHSLOPE=[2.3](%),
00474>                                     FPSLOPE=[2.3](%),
00475>                  SECNUM=[1.1],        NSEG=[3]
00476>                  ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00477>                  ( DISTANCE (m), ELEVATION (m))=[0,2]
00478>                                                 [1000,1.7]
00479>                                                 [1001,1.4]
00480>                                                 [1002,1.7]
00481>                                                 [2000,2]
00482> *%----------------|-------------------------------------------------------------|
00483> CALIB NASHYD     ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
00484>                  DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
00485>                  N=[3], TP=[0.47]hrs,
00486>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00487>
00488> *%----------------|-------------------------------------------------------------|
00489> ADD HYD          IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
00490> *%----------------|-------------------------------------------------------------|
00491> ROUTE CHANNEL    IDout=[8], NHYD=["Overland3"], IDin=[5],
00492>                  RDT=[1](min),
00493>                  CHLGTH=[500](m),   CHSLOPE=[4.0](%),
00494>                                     FPSLOPE=[4.0](%),
00495>                  SECNUM=[1.1],        NSEG=[3]
00496>                  ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00497>                  ( DISTANCE (m), ELEVATION (m))=[0,2]
00498>                                                 [1000,1.7]
00499>                                                 [1001,1.4]
00500>                                                 [1002,1.7]
00501>                                                 [2000,2]
00502> *%----------------|-------------------------------------------------------------|
00503> CALIB NASHYD     ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
00504>                  DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
00505>                  N=[3], TP=[0.45]hrs,
00506>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00507> *%----------------|-------------------------------------------------------------|
00508> ROUTE CHANNEL    IDout=[2], NHYD=["Overland4"], IDin=[1],
00509>                  RDT=[1](min),
00510>                  CHLGTH=[656](m),   CHSLOPE=[2.4](%),
00511>                                     FPSLOPE=[2.4](%),
00512>                  SECNUM=[1.1],        NSEG=[3]
00513>                  ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00514>                  ( DISTANCE (m), ELEVATION (m))=[0,2]
00515>                                                 [1000,1.7]
00516>                                                 [1001,1.4]
00517>                                                 [1002,1.7]
00518>                                                 [2000,2]
00519> *%----------------|-------------------------------------------------------------|
00520> CALIB NASHYD     ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
00521>                  DWF=[0](cms),  CN/C=[75.5], IA=[8.35](mm),
00522>                  N=[3], TP=[0.54]hrs,
00523>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00524> *%----------------|-------------------------------------------------------------|
00525> ADD HYD          IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
00526> *%----------------|-------------------------------------------------------------|
00527> ROUTE PIPE       PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
00528>                  PDIAM=[525](mm), PLNGTH=[410](m),
00529>                  PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
00530>                  RDT=[1](min)
00531> *%----------------|-------------------------------------------------------------|
00532> CALIB NASHYD     ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
00533>                  DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
00534>                  N=[3], TP=[0.43]hrs,
00535>                  RAINFALL=[  ,   ,   ,   ,   ](mm/hr),  END=-1
00536> *%----------------|-------------------------------------------------------------|
00537> CALIB STANDHYD    ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.88](ha),
00538>                  XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
00539>                  SCS curve number CN=[79],
00540>                  Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
```

```
                                        LGP=[12.5](m), MNP=[0.24), SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
*%------------------|---------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[450](m),
                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                    RDT=[1](min)
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                    DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                    PDIAM=[525](mm), PLNGTH=[435](m),
                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                    RDT=[1](min)
*%------------------|---------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%------------------|---------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[305](m),
                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                    RDT=[1](min)
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["SWM2"], DT=[1]min, AREA=[6.8](ha),
                    DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                    N=[3], TP=[0.05]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%------------------|---------------------------------------------------------|
ROUTE RESERVOIR     IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                    (cms) - (ha-m)
                                  [  0.0 ,  0.0 ]
                                  [  0.0097    ,    0.1406  ]
                                  [  0.0352    ,    0.3212  ]
                                  [  0.0764    ,    0.5018  ]
                                  [  0.0986    ,    0.6823  ]
                                  [  0.1547    ,    0.8629  ]
                                  [  0.3283    ,    1.0435  ]
                                  [  0.5673    ,    1.2430  ]
                                  [  0.8560    ,    1.4426  ]
                                  [  1.1868    ,    1.6421  ]
                                  [  1.5548    ,    1.8417  ]
                                  [  1.9562    ,    2.0412  ]
                                  [  2.3891    ,    2.2712  ]
                                  [  2.8505    ,    2.5013  ]
                                  [  3.3385    ,    2.7313  ]
                                  [  3.8521    ,    2.9614  ]
                                  [  4.3895    ,    3.1914  ]
                                  [  5.8341    ,    3.8362  ]
                                  [  -1  ,  -1  ]  (max twenty pts)
                          IDovf=[2], NHYDovf=["Spillflow"]
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Pond 5yr"], IDs to add=[1+2]
*%------------------|---------------------------------------------------------|
SAVE HYD            ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                    HYD_FILENAME=["Pond5yr"]
                    HYD_COMMENT=["Pond5yr"]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
                    DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
                    N=[3], TP=[0.21]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                    DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                    N=[3], TP=[0.15]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                    N=[3], TP=[0.32]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%------------------|---------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                    N=[3], TP=[0.09]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%------------------|---------------------------------------------------------|
*#**************************************************************************
*#* 10 year Chicago Storm                                                  *
*#**************************************************************************
*%------------------|---------------------------------------------------------|
READ STORM          STORM_FILENAME=["10yr.stm"]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                    DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                    N=[3], TP=[0.42]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["BCreek1"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[422](m),   CHSLOPE=[1.3](%),
                                       FPSLOPE=[1.3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                    DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                    N=[3], TP=[0.59]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%------------------|---------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                    PDIAM=[900](mm), PLNGTH=[162](m),
                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                    RDT=[1](min)
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                    DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                    N=[3], TP=[0.58]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["Overland1"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[676](m),   CHSLOPE=[2.6](%),
                                       FPSLOPE=[2.6](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                    DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
                    N=[3], TP=[0.53]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*%------------------|---------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek2"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[261](m),   CHSLOPE=[2.3](%),
                                       FPSLOPE=[2.3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*%------------------|---------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek3"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[204](m),   CHSLOPE=[3](%),
                                       FPSLOPE=[3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
                    N=[3], TP=[0.48]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                    N=[3], TP=[0.62]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                    DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
                    N=[3], TP=[0.75]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[49],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*%------------------|---------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["BCreek4"], IDin=[6],
                    RDT=[1](min),
                    CHLGTH=[647](m),   CHSLOPE=[3](%),
                                       FPSLOPE=[3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
                    N=[3], TP=[0.72]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
                    N=[3], TP=[0.23]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland2"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[550](m),   CHSLOPE=[2.3](%),
                                       FPSLOPE=[2.3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*%------------------|---------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  ,](mm/hr),  END=-1
*%------------------|---------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%------------------|---------------------------------------------------------|
```

```
ROUTE CHANNEL          IDout=[8], NHYD=["Overland3"], IDin=[5],
                       RDT=[1](min),
                       CHLGTH=[500](m),   CHSLOPE=[4.0](%),
                                          FPSLOPE=[4.0](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                       ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                      [1000,1.7]
                                                      [1001,1.4]
                                                      [1002,1.7]
                                                      [2000,2]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                       DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
                       N=[3], TP=[0.45]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL          IDout=[2], NHYD=["Overland4"], IDin=[1],
                       RDT=[1](min),
                       CHLGTH=[656](m),   CHSLOPE=[2.4](%),
                                          FPSLOPE=[2.4](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                       ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                      [1000,1.7]
                                                      [1001,1.4]
                                                      [1002,1.7]
                                                      [2000,2]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
                       DWF=[0](cms),  CN/C=[75.5], IA=[8.35](mm),
                       N=[3], TP=[0.54]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
                       PDIAM=[525](mm), PLNGTH=[410](m),
                       PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
                       RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
                       DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
                       N=[3], TP=[0.43]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD         ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.88](ha),
                       XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[79],
                       Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                            LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                       Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                            LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                       RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                       PDIAM=[750](mm), PLNGTH=[450](m),
                       PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                       RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                       DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
                       N=[3], TP=[0.47]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                       PDIAM=[525](mm), PLNGTH=[435](m),
                       PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                       RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD         ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                       XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[79],
                       Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                            LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                       Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                            LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                       RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                       PDIAM=[750](mm), PLNGTH=[305](m),
                       PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                       RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                       DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                       N=[3], TP=[0.05]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%-----------------|-------------------------------------------------------------|
ROUTE RESERVOIR        IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                       RDT=[1](min),
                             TABLE of ( OUTFLOW-STORAGE ) values
                                    (cms) - (ha-m)
                                  [   0.0 ,  0.0 ]
                                  [   0.0097    ,    0.1406  ]
                                  [   0.0352    ,    0.3212  ]
                                  [   0.0764    ,    0.5018  ]
                                  [   0.0986    ,    0.6823  ]
                                  [   0.1547    ,    0.8629  ]
                                  [   0.3283    ,    1.0435  ]
                                  [   0.5673    ,    1.2430  ]
                                  [   0.8560    ,    1.4426  ]
                                  [   1.1868    ,    1.6421  ]
                                  [   1.5548    ,    1.8417  ]
                                  [   1.9562    ,    2.0412  ]
                                  [   2.3891    ,    2.2712  ]
                                  [   2.8505    ,    2.5013  ]
                                  [   3.3385    ,    2.7313  ]
                                  [   3.8521    ,    2.9614  ]
                                  [   4.3895    ,    3.1914  ]
                                  [   5.8341    ,    3.8362  ]
                                  [   -1  ,  -1  ]  (max twenty pts)
                             IDovf=[2], NHYDovf=["Spillflow"]
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[4], NHYD=["Pond 10yr"], IDs to add=[1+2]
*%-----------------|-------------------------------------------------------------|
SAVE HYD               ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                       HYD_FILENAME=["Pond10yr"]
                       HYD_COMMENT=["Pond10yr"]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
                       DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
                       N=[3], TP=[0.21]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                       DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                       N=[3], TP=[0.15]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                       DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                       N=[3], TP=[0.32]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD         ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                       XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[79],
                       Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                            LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                       Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                            LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                       RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD         ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                       XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[79],
                       Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                            LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                       Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                            LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                       RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                       DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                       N=[3], TP=[0.09]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%-----------------|-------------------------------------------------------------|
*#******************************************************************************
*#**************************25 year Chicago Storm*******************************
*#******************************************************************************
*%-----------------|-------------------------------------------------------------|
READ STORM             STORM_FILENAME=["25yr.stm"]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                       DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                       N=[3], TP=[0.42]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL          IDout=[2], NHYD=["BCreek1"], IDin=[1],
                       RDT=[1](min),
                       CHLGTH=[422](m),   CHSLOPE=[1.3](%),
                                          FPSLOPE=[1.3](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                       ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                      [1.75,1]
                                                      [3.25,1]
                                                      [5,3]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                       DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                       N=[3], TP=[0.59]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%-----------------|-------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                       PDIAM=[900](mm), PLNGTH=[162](m),
                       PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                       RDT=[1](min)
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                       DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                       N=[3], TP=[0.58]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL          IDout=[3], NHYD=["Overland1"], IDin=[2],
                       RDT=[1](min),
                       CHLGTH=[676](m),   CHSLOPE=[2.6](%),
                                          FPSLOPE=[2.6](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                       ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                      [1000,1.7]
                                                      [1001,1.4]
                                                      [1002,1.7]
                                                      [2000,2]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                       DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
                       N=[3], TP=[0.53]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL          IDout=[3], NHYD=["BCreek2"], IDin=[2],
                       RDT=[1](min),
                       CHLGTH=[261](m),   CHSLOPE=[2.3](%),
                                          FPSLOPE=[2.3](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                       ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                      [1.75,1]
                                                      [3.25,1]
                                                      [5,3]
*%-----------------|-------------------------------------------------------------|
ADD HYD                IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*%-----------------|-------------------------------------------------------------|
ROUTE CHANNEL          IDout=[3], NHYD=["BCreek3"], IDin=[2],
                       RDT=[1](min),
                       CHLGTH=[204](m),   CHSLOPE=[3](%),
                                          FPSLOPE=[3](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                       ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                      [1.75,1]
                                                      [3.25,1]
                                                      [5,3]
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                       DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
                       N=[3], TP=[0.48]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                       DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                       N=[3], TP=[0.62]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB NASHYD           ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                       DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
                       N=[3], TP=[0.75]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------------|
CALIB STANDHYD         ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                       XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[49],
```

```
                        Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                             LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                        Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                             LGI=[326.70](m), MNI=[0.013], SCI=[0](m
RAINFALL=[ , , , , ](mm/hr) , END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*%----------|---------------------------------------------------------------|
ROUTE CHANNEL IDout=[1], NHYD=["BCreek4"], IDin=[6],
              RDT=[1](min),
              CHLGTH=[647](m),  CHSLOPE=[3](%),
                                FPSLOPE=[3](%),
              SECNUM=[1.1],     NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
              ( DISTANCE (m), ELEVATION (m))=[0,3]
                                             [1.75,1]
                                             [3.25,1]
                                             [5,3]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
              DWF=[0](cms),  CN/C=[78.4],  IA=[5.5](mm),
              N=[3], TP=[0.72]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
              DWF=[0](cms),  CN/C=[73.6],  IA=[9.74](mm),
              N=[3], TP=[0.23]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ROUTE CHANNEL IDout=[2], NHYD=["Overland2"], IDin=[1],
              RDT=[1](min),
              CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                FPSLOPE=[2.3](%),
              SECNUM=[1.1],     NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
              ( DISTANCE (m), ELEVATION (m))=[0,2]
                                             [1000,1.7]
                                             [1001,1.4]
                                             [1002,1.7]
                                             [2000,2]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
              DWF=[0](cms),  CN/C=[73.9],  IA=[9.53](mm),
              N=[3], TP=[0.47]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1

*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%----------|---------------------------------------------------------------|
ROUTE CHANNEL IDout=[8], NHYD=["Overland3"], IDin=[5],
              RDT=[1](min),
              CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                FPSLOPE=[4.0](%),
              SECNUM=[1.1],     NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
              ( DISTANCE (m), ELEVATION (m))=[0,2]
                                             [1000,1.7]
                                             [1001,1.4]
                                             [1002,1.7]
                                             [2000,2]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
              DWF=[0](cms),  CN/C=[74.8],  IA=[8.83](mm),
              N=[3], TP=[0.45]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ROUTE CHANNEL IDout=[2], NHYD=["Overland4"], IDin=[1],
              RDT=[1](min),
              CHLGTH=[656](m),  CHSLOPE=[2.4](%),
                                FPSLOPE=[2.4](%),
              SECNUM=[1.1],     NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
              ( DISTANCE (m), ELEVATION (m))=[0,2]
                                             [1000,1.7]
                                             [1001,1.4]
                                             [1002,1.7]
                                             [2000,2]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
              DWF=[0](cms),  CN/C=[75.5],  IA=[8.35](mm),
              N=[3], TP=[0.54]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
*%----------|---------------------------------------------------------------|
ROUTE PIPE  PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
            PDIAM=[525](mm), PLNGTH=[410](m),
            PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
            RDT=[1](min)
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
              DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
              N=[3], TP=[0.43]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
CALIB STANDHYD  ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.86](ha),
                XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                SCS curve number CN=[79],
                Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                     LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                     LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                RAINFALL=[ , , , , ](mm/hr) , END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
*%----------|---------------------------------------------------------------|
ROUTE PIPE  PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
            PDIAM=[750](mm), PLNGTH=[450](m),
            PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
            RDT=[1](min)
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
              DWF=[0](cms),  CN/C=[43.9],  IA=[6.5](mm),
              N=[3], TP=[0.47]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ROUTE PIPE  PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
            PDIAM=[525](mm), PLNGTH=[435](m),
            PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
            RDT=[1](min)
*%----------|---------------------------------------------------------------|
CALIB STANDHYD  ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                SCS curve number CN=[79],
                Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                     LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                     LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                RAINFALL=[ , , , , ](mm/hr) , END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%----------|---------------------------------------------------------------|
ROUTE PIPE  PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
            PDIAM=[750](mm), PLNGTH=[305](m),
            PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
            RDT=[1](min)
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
              DWF=[0](cms),  CN/C=[91.7],  IA=[2.99](mm),
              N=[3], TP=[0.05]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%----------|---------------------------------------------------------------|
ROUTE RESERVOIR IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                RDT=[1](min),
                      TABLE of ( OUTFLOW-STORAGE ) values
                           (cms) - (ha-m)
                        [   0.0 ,   0.0 ]
                        [   0.0097    ,    0.1406  ]
                        [   0.0352    ,    0.3212  ]
                        [   0.0764    ,    0.5018  ]
                        [   0.0986    ,    0.6823  ]
                        [   0.1547    ,    0.8629  ]
                        [   0.3283    ,    1.0435  ]
                        [   0.5673    ,    1.2430  ]
                        [   0.8560    ,    1.4426  ]
                        [   1.1868    ,    1.6421  ]
                        [   1.5548    ,    1.8417  ]
                        [   1.9562    ,    2.0412  ]
                        [   2.3891    ,    2.2712  ]
                        [   2.8505    ,    2.5013  ]
                        [   3.3385    ,    2.7313  ]
                        [   3.8521    ,    2.9614  ]
                        [   4.3895    ,    3.1914  ]
                        [   5.8341    ,    3.8362  ]
                        [   -1  ,   -1  ]   (max twenty pts)
                IDovf=[2], NHYDovf=["Spillflow"]
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[4], NHYD=["Pond 25yr"], IDs to add=[1+2]
*%----------|---------------------------------------------------------------|
SAVE HYD    ID=[4],   # OF PCYCLES=[1],  ICASE&h=[-1]
            HYD_FILENAME=["Pond25yr"]
            HYD_COMMENT=["Pond25yr"]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
              DWF=[0](cms),  CN/C=[81.3],  IA=[5.96](mm),
              N=[3], TP=[0.21]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
              DWF=[0](cms),  CN/C=[76.2],  IA=[7.38](mm),
              N=[3], TP=[0.15]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
              DWF=[0](cms),  CN/C=[76],  IA=[8](mm),
              N=[3], TP=[0.32]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
CALIB STANDHYD  ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                SCS curve number CN=[79],
                Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                     LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                     LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                RAINFALL=[ , , , , ](mm/hr) , END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*%----------|---------------------------------------------------------------|
CALIB STANDHYD  ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                SCS curve number CN=[79],
                Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                     LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                     LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                RAINFALL=[ , , , , ](mm/hr) , END=-1
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
              DWF=[0](cms),  CN/C=[76],  IA=[8](mm),
              N=[3], TP=[0.09]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*%----------|---------------------------------------------------------------|
*#**********************************************************************
*#**********************50 year Chicago Storm**************************
*#**********************************************************************
*%----------|---------------------------------------------------------------|
READ STORM  STORM_FILENAME=["50yr.stm"]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[3], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
              DWF=[0](cms),  CN/C=[74.2],  IA=[9.59](mm),
              N=[3], TP=[0.42]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ROUTE CHANNEL IDout=[2], NHYD=["BCreek1"], IDin=[1],
              RDT=[1](min),
              CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                FPSLOPE=[1.3](%),
              SECNUM=[1.1],     NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
              ( DISTANCE (m), ELEVATION (m))=[0,3]
                                             [1.75,1]
                                             [3.25,1]
                                             [5,3]
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
              DWF=[0](cms),  CN/C=[65.7],  IA=[9.61](mm),
              N=[3], TP=[0.59]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ADD HYD     IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*%----------|---------------------------------------------------------------|
ROUTE PIPE  PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
            PDIAM=[900](mm), PLNGTH=[162](m),
            PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
            RDT=[1](min)
*%----------|---------------------------------------------------------------|
CALIB NASHYD  ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
              DWF=[0](cms),  CN/C=[74],  IA=[9.58](mm),
              N=[3], TP=[0.58]hrs,
              RAINFALL=[ , , , , ](mm/hr),  END=-1
*%----------|---------------------------------------------------------------|
ROUTE CHANNEL IDout=[3], NHYD=["Overland1"], IDin=[2],
              RDT=[1](min),
              CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                FPSLOPE=[2.6](%),
              SECNUM=[1.1],     NSEG=[3]
              ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
              ( DISTANCE (m), ELEVATION (m))=[0,2]
                                             [1000,1.7]
                                             [1001,1.4]
                                             [1002,1.7]
```

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                                                            [2000,2]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                    DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
                    N=[3], TP=[0.53]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*%-----------------|-------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek2"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[261](m),  CHSLOPE=[2.3](%),
                                      FPSLOPE=[2.3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*%-----------------|-------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek3"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[204](m),  CHSLOPE=[3](%),
                                      FPSLOPE=[3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                    DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
                    N=[3], TP=[0.48]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                    DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                    N=[3], TP=[0.62]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                    DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
                    N=[3], TP=[0.75]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[49],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*%-----------------|-------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["BCreek4"], IDin=[6],
                    RDT=[1](min),
                    CHLGTH=[647](m),  CHSLOPE=[3](%),
                                      FPSLOPE=[3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
                    N=[3], TP=[0.72]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
                    N=[3], TP=[0.23]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland2"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                      FPSLOPE=[2.3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1

*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*%-----------------|-------------------------------------------------------|
ROUTE CHANNEL       IDout=[8], NHYD=["Overland3"], IDin=[5],
                    RDT=[1](min),
                    CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                      FPSLOPE=[4.0](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                    DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
                    N=[3], TP=[0.45]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland4"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[656](m),  CHSLOPE=[2.4](%),
                                      FPSLOPE=[2.4](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
                    DWF=[0](cms),  CN/C=[75.5], IA=[8.35](mm),
                    N=[3], TP=[0.54]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
*%-----------------|-------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
                    PDIAM=[525](mm), PLNGTH=[410](m),
                    PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
                    RDT=[1](min)
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
                    DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
                    N=[3], TP=[0.43]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.08](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
*%-----------------|-------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[450](m),
                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                    RDT=[1](min)
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                    DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                    PDIAM=[525](mm), PLNGTH=[435](m),
                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                    RDT=[1](min)
*%-----------------|-------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*%-----------------|-------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[305](m),
                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                    RDT=[1](min)
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                    DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                    N=[3], TP=[0.05]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*%-----------------|-------------------------------------------------------|
ROUTE RESERVOIR     IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                    RDT=[1](min),
                          TABLE of ( OUTFLOW-STORAGE ) values
                                   (cms) - (ha-m)
                                 [  0.0 ,  0.0 ]
                                 [  0.0097    ,   0.1406  ]
                                 [  0.0352    ,   0.3212  ]
                                 [  0.0764    ,   0.5018  ]
                                 [  0.0986    ,   0.6823  ]
                                 [  0.1547    ,   0.8629  ]
                                 [  0.3283    ,   1.0435  ]
                                 [  0.5673    ,   1.2430  ]
                                 [  0.8560    ,   1.4426  ]
                                 [  1.1868    ,   1.6421  ]
                                 [  1.5548    ,   1.8417  ]
                                 [  1.9562    ,   2.0412  ]
                                 [  2.3891    ,   2.2712  ]
                                 [  2.8505    ,   2.5013  ]
                                 [  3.3385    ,   2.7313  ]
                                 [  3.8521    ,   2.9614  ]
                                 [  4.3895    ,   3.1914  ]
                                 [  5.8341    ,   3.8362  ]
                                 [   -1   ,  -1   ]  (max twenty pts)
                          IDovf=[2], NHYDovf=["Spillflow"]
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Pond 50yr"], IDs to add=[1+2]
*%-----------------|-------------------------------------------------------|
SAVE HYD            ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                    HYD_FILENAME=["Pond50yr"]
                    HYD_COMMENT=["Pond50yr"]
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
                    DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
                    N=[3], TP=[0.21]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                    DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                    N=[3], TP=[0.15]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                    N=[3], TP=[0.32]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3*
*%-----------------|-------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*%-----------------|-------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                    N=[3], TP=[0.09]hrs,
                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*%-----------------|-------------------------------------------------------|
```

```
01621> ADD HYD            IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
01622> *%-----------------|-------------------------------------------------------|
01623> *#*****************************************************************************
01624> *#************************100 year Chicago Storm*******************************
01625> *#*****************************************************************************
01626> *%-----------------|-------------------------------------------------------|
01627> READ STORM          STORM_FILENAME=["100yr.stm"]
01628> *%-----------------|-------------------------------------------------------|
01629> CALIB NASHYD       ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
01630>                     DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
01631>                     N=[3], TP=[0.42]hrs,
01632>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01633> *%-----------------|-------------------------------------------------------|
01634> ROUTE CHANNEL      IDout=[2], NHYD=["BCreek1"], IDin=[1],
01635>                     RDT=[1](min),
01636>                     CHLGTH=[422](m),   CHSLOPE=[1.3](%),
01637>                                        FPSLOPE=[1.3](%),
01638>                     SECNUM=[1.1],      NSEG=[3]
01639>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01640>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
01641>                                                   [1.75,1]
01642>                                                   [3.25,1]
01643>                                                   [5,3]
01644> *%-----------------|-------------------------------------------------------|
01645> CALIB NASHYD       ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
01646>                     DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
01647>                     N=[3], TP=[0.59]hrs,
01648>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01649> *%-----------------|-------------------------------------------------------|
01650> ADD HYD            IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
01651> *%-----------------|-------------------------------------------------------|
01652> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
01653>                     PDIAM=[900](mm), PLNGTH=[162](m),
01654>                     PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
01655>                     RDT=[1](min)
01656> *%-----------------|-------------------------------------------------------|
01657> CALIB NASHYD       ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
01658>                     DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
01659>                     N=[3], TP=[0.58]hrs,
01660>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01661> *%-----------------|-------------------------------------------------------|
01662> ROUTE CHANNEL      IDout=[3], NHYD=["Overland1"], IDin=[2],
01663>                     RDT=[1](min),
01664>                     CHLGTH=[676](m),   CHSLOPE=[2.6](%),
01665>                                        FPSLOPE=[2.6](%),
01666>                     SECNUM=[1.1],      NSEG=[3]
01667>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01668>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
01669>                                                   [1000,1.7]
01670>                                                   [1001,1.4]
01671>                                                   [1002,1.7]
01672>                                                   [2000,2]
01673> *%-----------------|-------------------------------------------------------|
01674> CALIB NASHYD       ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
01675>                     DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
01676>                     N=[3], TP=[0.53]hrs,
01677>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01678> *%-----------------|-------------------------------------------------------|
01679> ADD HYD            IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
01680> *%-----------------|-------------------------------------------------------|
01681> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek2"], IDin=[2],
01682>                     RDT=[1](min),
01683>                     CHLGTH=(261](m),   CHSLOPE=[2.3](%),
01684>                                        FPSLOPE=[2.3](%),
01685>                     SECNUM=[1.1],      NSEG=[3]
01686>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01687>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
01688>                                                   [1.75,1]
01689>                                                   [3.25,1]
01690>                                                   [5,3]
01691> *%-----------------|-------------------------------------------------------|
01692> ADD HYD            IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
01693> *%-----------------|-------------------------------------------------------|
01694> ROUTE CHANNEL      IDout=[3], NHYD=["BCreek3"], IDin=[2],
01695>                     RDT=[1](min),
01696>                     CHLGTH=(204](m),   CHSLOPE=[3](%),
01697>                                        FPSLOPE=[3](%),
01698>                     SECNUM=[1.1],      NSEG=[3]
01699>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01700>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
01701>                                                   [1.75,1]
01702>                                                   [3.25,1]
01703>                                                   [5,3]
01704> *%-----------------|-------------------------------------------------------|
01705> CALIB NASHYD       ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
01706>                     DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
01707>                     N=[3], TP=[0.48]hrs,
01708>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01709> *%-----------------|-------------------------------------------------------|
01710> CALIB NASHYD       ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
01711>                     DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
01712>                     N=[3], TP=[0.62]hrs,
01713>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01714> *%-----------------|-------------------------------------------------------|
01715> CALIB NASHYD       ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
01716>                     DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
01717>                     N=[3], TP=[0.75]hrs,
01718>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01719> *%-----------------|-------------------------------------------------------|
01720> CALIB STANDHYD     ID=[5], NHYD=["202B"], DT=[1](min), AREA=(16.01](ha),
01721>                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01722>                     SCS curve number CN=[49],
01723>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01724>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01725>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01726>                                          LGI=[326.70](m), MNI=[0.013], SCI=[0](m
01727>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01728> *%-----------------|-------------------------------------------------------|
01729> ADD HYD            IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
01730> *%-----------------|-------------------------------------------------------|
01731> ROUTE CHANNEL      IDout=[1], NHYD=["BCreek4"], IDin=[6],
01732>                     RDT=[1](min),
01733>                     CHLGTH=[647](m),   CHSLOPE=[3](%),
01734>                                        FPSLOPE=[3](%),
01735>                     SECNUM=[1.1],      NSEG=[3]
01736>                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
01737>                     ( DISTANCE (m), ELEVATION (m))=[0,3]
01738>                                                   [1.75,1]
01739>                                                   [3.25,1]
01740>                                                   [5,3]
01741> *%-----------------|-------------------------------------------------------|
01742> CALIB NASHYD       ID=[2], NHYD=["201G"], DT=[1]min, AREA=(4.38](ha),
01743>                     DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
01744>                     N=[3], TP=[0.72]hrs,
01745>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01746> *%-----------------|-------------------------------------------------------|
01747> ADD HYD            IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
01748> *%-----------------|-------------------------------------------------------|
01749> CALIB NASHYD       ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
01750>                     DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
01751>                     N=[3], TP=[0.23]hrs,
01752>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01753> *%-----------------|-------------------------------------------------------|
01754> ROUTE CHANNEL      IDout=[2], NHYD=["Overland2"], IDin=[1],
01755>                     RDT=[1](min),
01756>                     CHLGTH=(550](m),   CHSLOPE=[2.3](%),
01757>                                        FPSLOPE=[2.3](%),
01758>                     SECNUM=[1.1],      NSEG=[3]
01759>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01760>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
01761>                                                   [1000,1.7]
01762>                                                   [1001,1.4]
01763>                                                   [1002,1.7]
01764>                                                   [2000,2]
01765> *%-----------------|-------------------------------------------------------|
01766> CALIB NASHYD       ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
01767>                     DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
01768>                     N=[3], TP=[0.47]hrs,
01769>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01770>
01771> *%-----------------|-------------------------------------------------------|
01772> ADD HYD            IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
01773> *%-----------------|-------------------------------------------------------|
01774> ROUTE CHANNEL      IDout=[8], NHYD=["Overland3"], IDin=[5],
01775>                     RDT=[1](min),
01776>                     CHLGTH=[500](m),   CHSLOPE=[4.0](%),
01777>                                        FPSLOPE=[4.0](%),
01778>                     SECNUM=[1.1],      NSEG=[3]
01779>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01780>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
01781>                                                   [1000,1.7]
01782>                                                   [1001,1.4]
01783>                                                   [1002,1.7]
01784>                                                   [2000,2]
01785> *%-----------------|-------------------------------------------------------|
01786> CALIB NASHYD       ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
01787>                     DWF=[0](cms),  CN/C=[74.8], IA=[8.83](mm),
01788>                     N=[3], TP=[0.45]hrs,
01789>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01790> *%-----------------|-------------------------------------------------------|
01791> ROUTE CHANNEL      IDout=[2], NHYD=["Overland4"], IDin=[1],
01792>                     RDT=[1](min),
01793>                     CHLGTH=[656](m),   CHSLOPE=[2.4](%),
01794>                                        FPSLOPE=[2.4](%),
01795>                     SECNUM=[1.1],      NSEG=[3]
01796>                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
01797>                     ( DISTANCE (m), ELEVATION (m))=[0,2]
01798>                                                   [1000,1.7]
01799>                                                   [1001,1.4]
01800>                                                   [1002,1.7]
01801>                                                   [2000,2]
01802> *%-----------------|-------------------------------------------------------|
01803> CALIB NASHYD       ID=[6], NHYD=["201L"], DT=[1]min, AREA=(22.1](ha),
01804>                     DWF=[0](cms),  CN/C=[75.5], IA=[8.35](mm),
01805>                     N=[3], TP=[0.54]hrs,
01806>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01807> *%-----------------|-------------------------------------------------------|
01808> ADD HYD            IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
01809> *%-----------------|-------------------------------------------------------|
01810> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
01811>                     PDIAM=[525](mm), PLNGTH=[410](m),
01812>                     PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
01813>                     RDT=[1](min)
01814> *%-----------------|-------------------------------------------------------|
01815> CALIB NASHYD       ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
01816>                     DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
01817>                     N=[3], TP=[0.43]hrs,
01818>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01819> *%-----------------|-------------------------------------------------------|
01820> CALIB STANDHYD     ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.88](ha),
01821>                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01822>                     SCS curve number CN=[79],
01823>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01824>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01825>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01826>                                          LGI=[229.20](m), MNI=[0.013], SCI=[0](m
01827>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01828> *%-----------------|-------------------------------------------------------|
01829> ADD HYD            IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
01830> *%-----------------|-------------------------------------------------------|
01831> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
01832>                     PDIAM=[750](mm), PLNGTH=[450](m),
01833>                     PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
01834>                     RDT=[1](min)
01835> *%-----------------|-------------------------------------------------------|
01836> CALIB NASHYD       ID=[2], NHYD=["201H"], DT=[1]min, AREA=(9.17](ha),
01837>                     DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
01838>                     N=[3], TP=[0.47]hrs,
01839>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01840> *%-----------------|-------------------------------------------------------|
01841> ROUTE PIPE         PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
01842>                     PDIAM=[525](mm), PLNGTH=[435](m),
01843>                     PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
01844>                     RDT=[1](min)
01845> *%-----------------|-------------------------------------------------------|
01846> CALIB STANDHYD     ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
01847>                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
01848>                     SCS curve number CN=[79],
01849>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01850>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01851>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01852>                                          LGI=[289.83](m), MNI=[0.013], SCI=[0](m
01853>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01854> *%-----------------|-------------------------------------------------------|
01855> ADD HYD            IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
01856> *%-----------------|-------------------------------------------------------|
01857> ROUTE PIPE         PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
01858>                     PDIAM=[750](mm), PLNGTH=[305](m),
01859>                     PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
01860>                     RDT=[1](min)
01861> *%-----------------|-------------------------------------------------------|
01862> ADD HYD            IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
01863> *%-----------------|-------------------------------------------------------|
01864> CALIB NASHYD       ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
01865>                     DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
01866>                     N=[3], TP=[0.05]hrs,
01867>                     RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
01868> *%-----------------|-------------------------------------------------------|
01869> ADD HYD            IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
01870> *%-----------------|-------------------------------------------------------|
01871> ROUTE RESERVOIR     IDout=[1],   NHYD=["SWM1"],   IDin=[3],
01872>                     RDT=[1](min),
01873>                           TABLE of ( OUTFLOW-STORAGE ) values
01874>                                (cms) - (ha-m)
01875>                                [  0.0  ,  0.0 ]
01876>                                [  0.0097   ,   0.1406  ]
01877>                                [  0.0352   ,   0.3212  ]
01878>                                [  0.0764   ,   0.5018  ]
01879>                                [  0.0986   ,   0.6823  ]
01880>                                [  0.1547   ,   0.8629  ]
01881>                                [  0.3283   ,   1.0435  ]
01882>                                [  0.5673   ,   1.2430  ]
01883>                                [  0.8560   ,   1.4426  ]
01884>                                [  1.1868   ,   1.6421  ]
01885>                                [  1.5548   ,   1.8417  ]
01886>                                [  1.9562   ,   2.0412  ]
01887>                                [  2.3891   ,   2.2712  ]
01888>                                [  2.8505   ,   2.5013  ]
01889>                                [  3.3385   ,   2.7313  ]
01890>                                [  3.8521   ,   2.9614  ]
```

```
01891>                                  [   4.3895    ,    3.1914  ]
01892>                                  [   5.8341    ,    3.8362  ]
01893>                                  [   -1   ,   -1   ]  (max twenty pts)
01894>                          IDovf=[2], NHYDovf=["Spillflow"]
01895> *%-----------------|-------------------------------------------------------|
01896> ADD HYD            IDsum=[4], NHYD=["Pond 100yr"], IDs to add=[1+2]
01897> *%-----------------|-------------------------------------------------------|
01898> SAVE HYD           ID=[4],   # OF PCYCLES=[1],   ICASEsh=[-1]
01899>                     HYD_FILENAME=["Pond100yr"]
01900>                     HYD_COMMENT=["Pond100yr"]
01901> *%-----------------|-------------------------------------------------------|
01902> CALIB NASHYD       ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
01903>                     DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
01904>                     N=[3], TP=[0.21]hrs,
01905>                     RAINFALL=[  ,   ,   ,   , ](mm/hr),  END=-1
01906> *%-----------------|-------------------------------------------------------|
01907> CALIB NASHYD       ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
01908>                     DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
01909>                     N=[3], TP=[0.15]hrs,
01910>                     RAINFALL=[  ,   ,   ,   , ](mm/hr),  END=-1
01911> *%-----------------|-------------------------------------------------------|
01912> CALIB NASHYD       ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
01913>                     DWF=[0](cms),  CN/C=[76], IA=[8](mm),
01914>                     N=[3], TP=[0.32]hrs,
01915>                     RAINFALL=[  ,   ,   ,   , ](mm/hr),  END=-1
01916> *%-----------------|-------------------------------------------------------|
01917> CALIB STANDHYD     ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
01918>                     XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
01919>                     SCS curve number CN=[79],
01920>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01921>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01922>                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
01923>                                          LGI=[128.84](m), MNI=[0.013], SCI=[0](m
01924>                     RAINFALL=[  ,   ,   ,   , ](mm/hr) ,  END=-1
01925> *%-----------------|-------------------------------------------------------|
01926> ADD HYD            IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
01927> *%-----------------|-------------------------------------------------------|
01928> CALIB STANDHYD     ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
01929>                     XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
01930>                     SCS curve number CN=[79],
01931>                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
01932>                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
01933>                     Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
01934>                                          LGI=[147.42](m), MNI=[0.013], SCI=[0](m
01935>                     RAINFALL=[  ,   ,   ,   , ](mm/hr) ,  END=-1
01936> *%-----------------|-------------------------------------------------------|
01937> CALIB NASHYD       ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
01938>                     DWF=[0](cms),  CN/C=[76], IA=[8](mm),
01939>                     N=[3], TP=[0.09]hrs,
01940>                     RAINFALL=[  ,   ,   ,   , ](mm/hr),  END=-1
01941> *%-----------------|-------------------------------------------------------|
01942> ADD HYD            IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
01943> *%-----------------|-------------------------------------------------------|
01944> *%-----------------|-------------------------------------------------------|
01945> FINISH
01946>
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01951>
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01963>
01964>
01965>
```

```
==============================================================================

   SSSSS  W   W  M   M  H   H  Y   Y  M   M  OOO        999   999   =========
   S      W W W  MM MM  H   H   Y Y   MM MM  O   O      9   9 9   9
   SSSSS  W W W  M M M  HHHHH    Y    M M M  O   O ## 9   9 9   9  Ver 4.05
       S   W W   M   M  H   H    Y    M   M  O   O      9999  9999  Sept 2011
   SSSSS   W W   M   M  H   H    Y    M   M   OOO          9     9  =========
                                                      9   9 9   9  # 3737016
        StormWater Management HYdrologic Model         999   999   =========

 *****************************************************************************
 ***************************** SWMHYMO Ver/4.05 *****************************
 *********  A single event and continuous hydrologic simulation model *********
 *********    based on the principles of HYMO and its successors     *********
 *********                  OTTHYMO-83 and OTTHYMO-89.                *********
 *****************************************************************************
 ********* Distributed by:  J.F. Sabourin and Associates Inc.        *********
 *********                  Ottawa,  Ontario: (613) 836-3884         *********
 *********                  Gatineau, Quebec: (819) 243-6858         *********
 *********                  E-Mail: swmhymo@jfsa.Com                 *********
 *****************************************************************************

 *****************************************************************************
 +++++++++ Licensed user: C.F. Crozier & Associates Inc.             *********
 +++++++++                Collingwood          SERIAL#:3737016       *********
 *****************************************************************************

 *****************************************************************************
 *********             ++++++ PROGRAM ARRAY DIMENSIONS ++++++        *********
 *********             Maximum value for ID numbers  :     10        *********
 *********             Max. number of rainfall points: 105408        *********
 *********             Max. number of flow points    : 105408        *********
 *****************************************************************************

 ***** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) *****
 *****----------------------------------------------------------------------*****
 *****     ID:  Hydrograph IDentification numbers, (1-10).                *****
 *****   NHYD:  Hydrograph reference numbers, (6 digits or characters).   *****
 *****   AREA:  Drainage area associated with hydrograph, (ac.) or (ha.). *****
 ***** QPEAK:  Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s).   *****
 ***** TpeakDate_hh:mm is the date and time of the peak flow.            *****
 *****   R.V.:  Runoff Volume of simulated hydrograph, (in) or (mm).      *****
 *****   R.C.:  Runoff Coefficient of simulated hydrograph, (ratio).      *****
 *****      *:  see WARNING or NOTE message printed at end of run.        *****
 *****     **:  see  ERROR  message printed at end of run.                *****
 *****************************************************************************
 *****************************************************************************

::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

 *****************************************************************************

 **********************    S U M M A R Y   O U T P U T    ********************
 *****************************************************************************
 *         DATE: 2018-08-09     TIME: 15:57:40     RUN COUNTER: 000331        *
 *****************************************************************************
 * Input   filename: C:\AUGUST\POST\CHI\PstCHI.dat                            *
 * Output  filename: C:\AUGUST\POST\CHI\PstCHI.out                            *
 * Summary filename: C:\AUGUST\POST\CHI\PstCHI.sum                            *
 * User comments:                                                             *
 * 1:_________________________________________________________________________*
 * 2:_________________________________________________________________________*
 * 3:_________________________________________________________________________*
 *****************************************************************************


#****************************************************************************
#  Project Name: [Lora Bay Phase 4]                  Project Number:[469-3061]
#  Date        : August 7, 2018
#  Modeller    : [B. Ellsworth]
#  Company     : C.F. Crozier & Associates Inc.
#  License #   :  3737016
#****************************************************************************
#  Filename    :  Continuous Model
#  Continuous Model
#****************************************************************************
#****************************************************************************
#****************************************************************************
 RUN:COMMAND#
 001:0001-------------------------------------------------------------------
     START
      [TZERO =    .00 hrs on        0]
      [METOUT=   2    (1=imperial, 2=metric output)]
      [NSTORM=   0 ]
      [NRUN  =   1 ]
#****************************************************************************
#*************************2 year Chicago Storm*******************************
#****************************************************************************
 001:0002-------------------------------------------------------------------
     READ STORM
      Filename = 2yr.stm
      Comment  =
      [SDT=60.00:SDUR=   6.00:PTOT=  37.90]
 001:0003---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:302             28.20      .363 No_date    3:14    6.87
      [CN= 74.2: N= 3.00]
      [Tp=  .42:DT= 1.00]
 001:0004---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:302             28.20      .363 No_date    3:14    6.87
      [RDT= 1.00] out<- 02:BCreek1         28.20      .336 No_date    3:22    6.87
      [L/S/n=  422./1.300/.070]
      {Vmax=  .670:Dmax=   .302}
 001:0005---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        03:201C            21.60      .158 No_date    3:26    4.97
      [CN= 65.7: N= 3.00]
      [Tp=  .59:DT= 1.00]
 001:0006---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:BCreek1         28.20      .336 No_date    3:22    6.87
                       + 03:201C            21.60      .158 No_date    3:26    4.97
      [DT= 1.00]  SUM=   04:Add1            49.80      .493 No_date    3:23    6.05
 001:0007---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 04:Add1            49.80      .493 No_date    3:23    6.05
      [RDT= 1.00] out<- 01:Pipe1           49.80      .492 No_date    3:24    6.05
      [L/S/n=  162./2.160/.013]
      {Vmax= 3.177:Dmax=   .261}
      [Din=  .90:Dused=   .90]
 001:0008---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:301             44.80      .460 No_date    3:25    6.82
      [CN= 74.0: N= 3.00]
      [Tp=  .58:DT= 1.00]
 001:0009---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:301             44.80      .460 No_date    3:25    6.82
      [RDT= 1.00] out<- 03:Overland1       44.80      .368 No_date    4:01    6.82
      [L/S/n=  676./2.600/.070]
      {Vmax=  .331:Dmax=   .314}
 001:0010---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201K             9.77      .093 No_date    3:22    5.95
      [CN= 71.0: N= 3.00]
      [Tp=  .53:DT= 1.00]
 001:0011---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             03:Overland1       44.80      .368 No_date    4:01    6.82
                       + 04:201K             9.77      .093 No_date    3:22    5.95
      [DT= 1.00]  SUM=   02:Add2            54.57      .429 No_date    3:55    6.67
 001:0012---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:Add2            54.57      .429 No_date    3:55    6.67
      [RDT= 1.00] out<- 03:BCreek2         54.57      .428 No_date    3:57    6.67
      [L/S/n=  261./2.300/.070]
      {Vmax=  .844:Dmax=   .280}
 001:0013---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe1           49.80      .492 No_date    3:24    6.05
                       + 03:BCreek2         54.57      .428 No_date    3:57    6.67
      [DT= 1.00]  SUM=   02:Add3           104.37      .846 No_date    3:32    6.37
 001:0014---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:Add3           104.37      .846 No_date    3:32    6.37
      [RDT= 1.00] out<- 03:BCreek3        104.37      .844 No_date    3:34    6.37
      [L/S/n=  204./3.000/.070]
      {Vmax= 1.172:Dmax=   .385}
 001:0015---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:201D             4.08      .020 No_date    3:17    2.92
      [CN= 46.2: N= 3.00]
      [Tp=  .48:DT= 1.00]
 001:0016---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201E             8.13      .082 No_date    3:25    6.93
      [CN= 67.6: N= 3.00]
      [Tp=  .62:DT= 1.00]
 001:0017---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201F             9.08      .148 No_date    3:32   12.43
      [CN= 81.9: N= 3.00]
      [Tp=  .75:DT= 1.00]
 001:0018---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:202B            16.01      .485 No_date    3:01   15.74
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 49.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
 001:0019---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:201D             4.08      .020 No_date    3:17    2.92
                       + 02:201E             8.13      .082 No_date    3:25    6.93
                       + 03:BCreek3        104.37      .844 No_date    3:34    6.37
                       + 04:201F             9.08      .148 No_date    3:32   12.43
                       + 05:202B            16.01      .485 No_date    3:01   15.74
      [DT= 1.00]  SUM=   06:Add4           141.67     1.257 No_date    3:24    7.75
 001:0020---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 06:Add4           141.67     1.257 No_date    3:24    7.75
      [RDT= 1.00] out<- 01:BCreek4        141.67     1.239 No_date    3:31    7.75
      [L/S/n=  647./3.000/.070]
      {Vmax= 1.338:Dmax=   .482}
 001:0021---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201G             4.38      .060 No_date    3:31   10.25
      [CN= 78.4: N= 3.00]
      [Tp=  .72:DT= 1.00]
 001:0022---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:BCreek4        141.67     1.239 No_date    3:31    7.75
                       + 02:201G             4.38      .060 No_date    3:31   10.25
      [DT= 1.00]  SUM=   03:Add5           146.05     1.299 No_date    3:31    7.83
 001:0023---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:303             20.60      .353 No_date    3:05    6.65
      [CN= 73.6: N= 3.00]
      [Tp=  .23:DT= 1.00]
 001:0024---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:303             20.60      .353 No_date    3:05    6.65
      [RDT= 1.00] out<- 02:Overland2       20.60      .267 No_date    3:22    6.65
      [L/S/n=  550./2.300/.070]
      {Vmax=  .366:Dmax=   .310}
 001:0025---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201A            23.20      .275 No_date    3:17    6.82
      [CN= 73.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
 001:0026---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:Overland2       20.60      .267 No_date    3:22    6.65
                       + 04:201A            23.20      .275 No_date    3:17    6.82
      [DT= 1.00]  SUM=   05:Add6            43.80      .539 No_date    3:20    6.74
 001:0027---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 05:Add6            43.80      .539 No_date    3:20    6.74
      [RDT= 1.00] out<- 08:Overland3       43.80      .457 No_date    3:40    6.74
      [L/S/n=  500./4.000/.070]
      {Vmax=  .429:Dmax=   .313}
 001:0028---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:201J            16.40      .218 No_date    3:16    7.37
      [CN= 74.8: N= 3.00]
      [Tp=  .45:DT= 1.00]
 001:0029---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:201J            16.40      .218 No_date    3:16    7.37
      [RDT= 1.00] out<- 02:Overland4       16.40      .188 No_date    3:32    7.37
      [L/S/n=  656./2.400/.070]
      {Vmax=  .540:Dmax=   .302}
 001:0030---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        06:201L            22.10      .276 No_date    3:21    7.80
      [CN= 75.5: N= 3.00]
      [Tp=  .54:DT= 1.00]
 001:0031---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:Overland4       16.40      .188 No_date    3:32    7.37
                       + 06:201L            22.10      .276 No_date    3:21    7.80
      [DT= 1.00]  SUM=   05:Add7a           38.50      .454 No_date    3:27    7.62
 001:0032---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 05:Add7a           38.50      .454 No_date    3:27    7.62
      [RDT= 1.00] out<- 01:SitePipe        38.50      .452 No_date    3:29    7.62
      [L/S/n=  410./1.340/.013]
      {Vmax= 2.607:Dmax=   .394}
      [Din=  .53:Dused=   .53]
 001:0033---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201B            13.00      .183 No_date    3:14    7.56
      [CN= 73.1: N= 3.00]
      [Tp=  .43:DT= 1.00]
 001:0034---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      02:202E             7.88      .347 No_date    3:01   21.33
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=   .0]
 001:0035---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SitePipe        38.50      .452 No_date    3:29    7.62
                       + 02:202E             7.88      .347 No_date    3:01   21.33
                       + 04:201B            13.00      .183 No_date    3:14    7.56
                       + 08:Overland3       43.80      .457 No_date    3:40    6.74
      [DT= 1.00]  SUM=   07:Add7b          103.18     1.150 No_date    3:27    8.28
 001:0036---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 07:Add7b          103.18     1.150 No_date    3:27    8.28
      [RDT= 1.00] out<- 01:Pipe2          103.18     1.149 No_date    3:28    8.28
      [L/S/n=  450./1.500/.013]
      {Vmax= 3.460:Dmax=   .528}
      [Din=  .75:Dused=   .75]
 001:0037---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201H             9.17      .044 No_date    3:17    2.77
      [CN= 43.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
 001:0038---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 02:201H             9.17      .044 No_date    3:17    2.77
      [RDT= 1.00] out<- 04:Pipe3            9.17      .043 No_date    3:21    2.77
      [L/S/n=  435./1.300/.013]
      {Vmax= 1.387:Dmax=   .105}
      [Din=  .53:Dused=   .53]
 001:0039---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:202C            12.60      .546 No_date    3:01   21.33
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
 001:0040---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe2          103.18     1.149 No_date    3:28    8.28
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```
00271>                        +  04:Pipe3          9.17      .043 No_date     3:21     2.77
00272>                        +  05:202C          12.60      .546 No_date     3:01    21.33
00273>       [DT= 1.00]  SUM=   06:Add8          124.95    1.599 No_date     3:07     9.19
00274>  001:0041---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00275>       ROUTE PIPE      -> 06:Add8          124.95    1.599 No_date     3:07     9.19
00276>        [RDT= 1.00] out<- 01:Pipe4         124.95    1.598 No_date     3:08     9.19
00277>        [L/S/n=  305./5.000/.013]
00278>        {Vmax= 5.984:Dmax=  .437}
00279>        [Din=  .75:Dused=  .75}
00280>  001:0042---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00281>       ADD HYD            01:Pipe4         124.95    1.598 No_date     3:08     9.19
00282>                        +  03:Add5          146.05    1.299 No_date     3:31     7.83
00283>       [DT= 1.00]  SUM=   02:Add9          271.00    2.726 No_date     3:16     8.46
00284>  001:0043---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00285>       CALIB NASHYD       01:SWMF            6.80      .377 No_date     3:00    21.05
00286>        {CN= 91.7: N= 3.00}
00287>        {Tp=  .05:DT= 1.00}
00288>  001:0044---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00289>       ADD HYD            01:SWMF            6.80      .377 No_date     3:00    21.05
00290>                        +  02:Add9          271.00    2.726 No_date     3:16     8.46
00291>       [DT= 1.00]  SUM=   03:Add10         277.80    2.783 No_date     3:16     8.77
00292>  001:0045---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00293>       ROUTE RESERVOIR -> 03:Add10         277.80    2.783 No_date     3:16     8.77
00294>        [RDT= 1.00] out<- 01:SWM1          277.80    1.014 No_date     5:01     8.76
00295>                  overflow <- 02:Spillflow     .00      .000 No_date     0:00      .00
00296>       {MxStoUsed=.1538E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=   0.hrs
00297>  001:0046---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00298>       ADD HYD            01:SWM1          277.80    1.014 No_date     5:01     8.76
00299>                        +  02:Spillflow       .00      .000 No_date     0:00      .00
00300>       [DT= 1.00]  SUM=   04:Pond 2yr      277.80    1.014 No_date     5:01     8.76
00301>  001:0047---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00302>       SAVE HYD           04:Pond 2yr      277.80    1.014 No_date     5:01     8.76
00303>        fname :C:\AUGUST\POST\CHI\Pond2yr.001
00304>        remark:Pond2yr
00305>  001:0048---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00306>       CALIB NASHYD       01:CottExt1        3.68      .106 No_date     3:03    11.29
00307>        [CN= 81.3: N= 3.00]
00308>        [Tp=  .21:DT= 1.00]
00309>  001:0049---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00310>       CALIB NASHYD       02:CottExt2        1.65      .040 No_date     3:02     8.48
00311>        [CN= 76.2: N= 3.00]
00312>        [Tp=  .15:DT= 1.00]
00313>  001:0050---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00314>       CALIB NASHYD       03:CottExt5         .38      .007 No_date     3:08     8.12
00315>        [CN= 76.0: N= 3.00]
00316>        [Tp=  .32:DT= 1.00]
00317>  001:0051---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00318>       CALIB STANDHYD     05:CottB           2.49      .123 No_date     3:00    23.53
00319>        [XIMP=.43:TIMP=.59]
00320>        [LOSS= 2 :CN= 79.0]
00321>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00322>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
00323>  001:0052---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00324>       ADD HYD            01:CottExt1        3.68      .106 No_date     3:03    11.29
00325>                        +  02:CottExt2        1.65      .040 No_date     3:02     8.48
00326>                        +  03:CottExt5         .38      .007 No_date     3:08     8.12
00327>                        +  04:Pond 2yr      277.80    1.014 No_date     5:01     8.76
00328>                        +  05:CottB           2.49      .123 No_date     3:00    23.53
00329>       [DT= 1.00]  SUM=   06:SWM1 Outle    286.00    1.041 No_date     5:00     8.92
00330>  001:0053---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00331>       CALIB STANDHYD     02:CottA           3.26      .156 No_date     3:00    22.76
00332>        [XIMP=.40:TIMP=.56]
00333>        [LOSS= 2 :CN= 79.0]
00334>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00335>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
00336>  001:0054---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00337>       CALIB NASHYD       03:CottExt6         .42      .011 No_date     3:00     8.12
00338>        [CN= 76.0: N= 3.00]
00339>        [Tp=  .09:DT= 1.00]
00340>  001:0055---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00341>       ADD HYD            02:CottA           3.26      .156 No_date     3:00    22.76
00342>                        +  03:CottExt6        .42      .011 No_date     3:00     8.12
00343>                        +  06:SWM1 Outle    286.00    1.041 No_date     5:00     8.92
00344>       [DT= 1.00]  SUM=   04:Sunset Out    289.68    1.055 No_date     5:00     9.08
00345> #*************************************************************************
00346> #*************************5 year Chicago Storm*****************************
00347> #*************************************************************************
00348>  001:0056---------------------------------------------------------------------
00349>       READ STORM
00350>        Filename = 5yr.stm
00351>        Comment  =
00352>        [SDT=60.00:SDUR=   6.00:PTOT=  52.70]
00353>  001:0057---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00354>       CALIB NASHYD       01:302            28.20      .737 No_date     3:13    14.14
00355>        [CN= 74.2: N= 3.00]
00356>        [Tp=  .42:DT= 1.00]
00357>  001:0058---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00358>       ROUTE CHANNEL   -> 01:302            28.20      .737 No_date     3:13    14.14
00359>        [RDT= 1.00] out<- 02:BCreek1       28.20      .703 No_date     3:19    14.14
00360>        [L/S/n=  422./1.300/.070]
00361>        {Vmax=  .850:Dmax=  .451}
00362>  001:0059---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00363>       CALIB NASHYD       03:201C           21.60      .334 No_date     3:24    10.57
00364>        [CN= 65.7: N= 3.00]
00365>        [Tp=  .59:DT= 1.00]
00366>  001:0060---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00367>       ADD HYD            02:BCreek1        28.20      .703 No_date     3:19    14.14
00368>                        +  03:201C           21.60      .334 No_date     3:24    10.57
00369>       [DT= 1.00]  SUM=   04:Add1           49.80    1.034 No_date     3:20    12.59
00370>  001:0061---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00371>       ROUTE PIPE      -> 04:Add1           49.80    1.034 No_date     3:20    12.59
00372>        [RDT= 1.00] out<- 01:Pipe1         49.80    1.034 No_date     3:21    12.59
00373>        [L/S/n=  162./2.160/.013]
00374>        {Vmax= 3.916:Dmax=  .389}
00375>        [Din=  .90:Dused=  .90}
00376>  001:0062---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00377>       CALIB NASHYD       02:301            44.80      .945 No_date     3:22    14.05
00378>        [CN= 74.0: N= 3.00]
00379>        [Tp=  .58:DT= 1.00]
00380>  001:0063---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00381>       ROUTE CHANNEL   -> 02:301            44.80      .945 No_date     3:22    14.05
00382>        [RDT= 1.00] out<- 03:Overland1     44.80      .660 No_date     4:16    14.05
00383>        [L/S/n=  676./2.600/.070]
00384>        {Vmax=  .204:Dmax=  .335}
00385>  001:0064---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00386>       CALIB NASHYD       04:201K            9.77      .194 No_date     3:20    12.51
00387>        [CN= 71.0: N= 3.00]
00388>        [Tp=  .53:DT= 1.00]
00389>  001:0065---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00390>       ADD HYD            03:Overland1      44.80      .660 No_date     4:16    14.05
00391>                        +  04:201K           9.77      .194 No_date     3:20    12.51
00392>       [DT= 1.00]  SUM=   02:Add2           54.57      .761 No_date     4:04    13.77
00393>  001:0066---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00394>       ROUTE CHANNEL   -> 02:Add2           54.57      .761 No_date     4:04    13.77
00395>        [RDT= 1.00] out<- 03:BCreek2       54.57      .759 No_date     4:10    13.77
00396>        [L/S/n=  261./2.300/.070]
00397>        {Vmax= 1.037:Dmax=  .391}
00398>  001:0067---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00399>       ADD HYD            01:Pipe1          49.80    1.034 No_date     3:21    12.59
00400>                        +  03:BCreek2        54.57      .759 No_date     4:10    13.77
00401>       [DT= 1.00]  SUM=   02:Add3           104.37    1.639 No_date     3:27    13.21
00402>  001:0068---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00403>       ROUTE CHANNEL   -> 02:Add3           104.37    1.639 No_date     3:27    13.21
00404>        [RDT= 1.00] out<- 03:BCreek3       104.37    1.635 No_date     3:28    13.21
00405>        [L/S/n=  204./3.000/.070]
00406>        {Vmax= 1.459:Dmax=  .559}
00407>  001:0069---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00408>       CALIB NASHYD       01:201D            4.08      .041 No_date     3:16     6.11
00409>        [CN= 46.2: N= 3.00]
00410>        [Tp=  .48:DT= 1.00]
00411>  001:0070---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00412>       CALIB NASHYD       02:201E            8.13      .156 No_date     3:23    13.34
00413>        [CN= 67.6: N= 3.00]
00414>        [Tp=  .62:DT= 1.00]
00415>  001:0071---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00416>       CALIB NASHYD       04:201F            9.08      .261 No_date     3:30    22.23
00417>        [CN= 81.9: N= 3.00]
00418>        [Tp=  .75:DT= 1.00]
00419>  001:0072---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00420>       CALIB STANDHYD     05:202B           16.01      .728 No_date     3:01    23.90
00421>        [XIMP=.35:TIMP=.50]
00422>        [LOSS= 2 :CN= 49.0]
00423>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00424>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
00425>  001:0073---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00426>       ADD HYD            01:201D            4.08      .041 No_date     3:16     6.11
00427>                        +  02:201E            8.13      .156 No_date     3:23    13.34
00428>                        +  03:BCreek3       104.37    1.635 No_date     3:28    13.21
00429>                        +  04:201F            9.08      .261 No_date     3:30    22.23
00430>                        +  05:202B           16.01      .728 No_date     3:01    23.90
00431>       [DT= 1.00]  SUM=   06:Add4           141.67    2.356 No_date     3:21    14.80
00432>  001:0074---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00433>       ROUTE CHANNEL   -> 06:Add4           141.67    2.356 No_date     3:21    14.80
00434>        [RDT= 1.00] out<- 01:BCreek4       141.67    2.335 No_date     3:26    14.80
00435>        [L/S/n=  647./3.000/.070]
00436>        {Vmax= 1.630:Dmax=  .684}
00437>  001:0075---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00438>       CALIB NASHYD       02:201G            4.38      .110 No_date     3:29    19.01
00439>        [CN= 78.4: N= 3.00]
00440>        [Tp=  .72:DT= 1.00]
00441>  001:0076---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00442>       ADD HYD            01:BCreek4       141.67    2.335 No_date     3:26    14.80
00443>                        +  02:201G           4.38      .110 No_date     3:29    19.01
00444>       [DT= 1.00]  SUM=   03:Add5           146.05    2.444 No_date     3:27    14.92
00445>  001:0077---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00446>       CALIB NASHYD       01:303            20.60      .692 No_date     3:04    13.77
00447>        [CN= 73.6: N= 3.00]
00448>        [Tp=  .23:DT= 1.00]
00449>  001:0078---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00450>       ROUTE CHANNEL   -> 01:303            20.60      .692 No_date     3:04    13.77
00451>        [RDT= 1.00] out<- 02:Overland2     20.60      .472 No_date     3:26    13.77
00452>        [L/S/n=  550./2.300/.070]
00453>        {Vmax=  .209:Dmax=  .329}
00454>  001:0079---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00455>       CALIB NASHYD       04:201A           23.20      .561 No_date     3:16    14.03
00456>        [CN= 73.9: N= 3.00]
00457>        [Tp=  .47:DT= 1.00]
00458>  001:0080---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00459>       ADD HYD            02:Overland2     20.60      .472 No_date     3:26    13.77
00460>                        +  04:201A           23.20      .561 No_date     3:16    14.03
00461>       [DT= 1.00]  SUM=   05:Add6           43.80    1.007 No_date     3:22    13.90
00462>  001:0081---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00463>       ROUTE CHANNEL   -> 05:Add6           43.80    1.007 No_date     3:22    13.90
00464>        [RDT= 1.00] out<- 08:Overland3     43.80      .809 No_date     3:53    13.90
00465>        [L/S/n=  500./4.000/.070]
00466>        {Vmax=  .253:Dmax=  .333}
00467>  001:0082---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00468>       CALIB NASHYD       01:201J           16.40      .433 No_date     3:14    14.87
00469>        [CN= 74.8: N= 3.00]
00470>        [Tp=  .45:DT= 1.00]
00471>  001:0083---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00472>       ROUTE CHANNEL   -> 01:201J           16.40      .433 No_date     3:14    14.87
00473>        [RDT= 1.00] out<- 02:Overland4     16.40      .335 No_date     3:45    14.87
00474>        [L/S/n=  656./2.400/.070]
00475>        {Vmax=  .323:Dmax=  .314}
00476>  001:0084---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00477>       CALIB NASHYD       06:201L           22.10      .544 No_date     3:19    15.52
00478>        [CN= 75.5: N= 3.00]
00479>        [Tp=  .54:DT= 1.00]
00480>  001:0085---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00481>       ADD HYD            02:Overland4     16.40      .335 No_date     3:45    14.87
00482>                        +  06:201L           22.10      .544 No_date     3:19    15.52
00483>       [DT= 1.00]  SUM=   05:Add7a          38.50      .828 No_date     3:26    15.24
00484>  001:0086---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00485>       ROUTE PIPE      -> 05:Add7a          38.50      .828 No_date     3:26    15.24
00486>  *     [RDT= 1.00] out<- 01:SitePipe      38.50      .826 No_date     3:29    15.24
00487>        [L/S/n=  410./1.340/.013]
00488>        {Vmax= 2.976:Dmax=  .521}
00489>        {Din=  .53:Dused=  .64}
00490>  001:0087---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00491>       CALIB NASHYD       04:201B           13.00      .351 No_date     3:13    14.86
00492>        [CN= 73.1: N= 3.00]
00493>        [Tp=  .43:DT= 1.00]
00494>  001:0088---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00495>       CALIB STANDHYD     02:202E            7.88      .535 No_date     3:00    33.14
00496>        [XIMP=.35:TIMP=.50]
00497>        [LOSS= 2 :CN= 79.0]
00498>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00499>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=   .0]
00500>  001:0089---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00501>       ADD HYD            01:SitePipe      38.50      .826 No_date     3:29    15.24
00502>                        +  02:202E           7.88      .535 No_date     3:00    33.14
00503>                        +  04:201B          13.00      .351 No_date     3:13    14.86
00504>                        +  08:Overland3     43.80      .809 No_date     3:53    13.90
00505>       [DT= 1.00]  SUM=   07:Add7b          103.18    1.950 No_date     3:28    15.99
00506>  001:0090---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00507>       ROUTE PIPE      -> 07:Add7b          103.18    1.950 No_date     3:28    15.99
00508>  *     [RDT= 1.00] out<- 01:Pipe2         103.18    1.949 No_date     3:29    15.99
00509>        [L/S/n=  450./1.500/.013]
00510>        {Vmax= 3.846:Dmax=  .704}
00511>        {Din=  .75:Dused=  .86}
00512>  001:0091---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00513>       CALIB NASHYD       02:201H            9.17      .088 No_date     3:16     5.76
00514>        [CN= 43.9: N= 3.00]
00515>        [Tp=  .47:DT= 1.00]
00516>  001:0092---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00517>       ROUTE PIPE      -> 02:201H           9.17      .088 No_date     3:16     5.76
00518>        [RDT= 1.00] out<- 04:Pipe3         9.17      .087 No_date     3:19     5.76
00519>        [L/S/n=  435./1.300/.013]
00520>        {Vmax= 1.708:Dmax=  .150}
00521>        {Din=  .53:Dused=  .53}
00522>  001:0093---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00523>       CALIB STANDHYD     05:202C           12.60      .844 No_date     3:01    33.14
00524>        [XIMP=.35:TIMP=.50]
00525>        [LOSS= 2 :CN= 79.0]
00526>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00527>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
00528>  001:0094---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00529>       ADD HYD            01:Pipe2         103.18    1.949 No_date     3:29    15.99
00530>                        +  04:Pipe3          9.17      .087 No_date     3:19     5.76
00531>                        +  05:202C          12.60      .844 No_date     3:01    33.14
00532>       [DT= 1.00]  SUM=   06:Add8          124.95    2.702 No_date     3:06    16.97
00533>  001:0095---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00534>       ROUTE PIPE      -> 06:Add8          124.95    2.702 No_date     3:06    16.97
00535>  *     [RDT= 1.00] out<- 01:Pipe4         124.95    2.699 No_date     3:07    16.97
00536>        [L/S/n=  305./5.000/.013]
00537>        {Vmax= 6.554:Dmax=  .635}
00538>        [Din=  .75:Dused=  .77}
00539>  001:0096---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00540>       ADD HYD            01:Pipe4         124.95    2.699 No_date     3:07    16.97
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00541>                          +  03:Add5          146.05    2.444 No_date    3:27   14.92
00542>        [DT= 1.00]   SUM=  02:Add9            271.00    4.887 No_date    3:13   15.87
00543>  001:0097---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00544>       CALIB NASHYD        01:SWMF              6.80     .558 No_date    3:00   33.99
00545>         [CN= 91.7: N= 3.00]
00546>         [Tp=  .05:DT= 1.00]
00547>  001:0098---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00548>       ADD HYD             01:SWMF              6.80     .558 No_date    3:00   33.99
00549>                         +  02:Add9            271.00    4.887 No_date    3:13   15.87
00550>        [DT= 1.00]   SUM=  03:Add10           277.80    4.978 No_date    3:12   16.31
00551>  001:0099---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00552>       ROUTE RESERVOIR -> 03:Add10           277.80    4.978 No_date    3:12   16.31
00553>         [RDT= 1.00] out<- 01:SWM1            277.80    2.540 No_date    4:43   16.31
00554>                   overflow <- 02:Spillflow     .00     .000 No_date    0:00     .00
00555>       [MxStoUsed=.2347E+01, TotOvfVol=.0000E+00, N-Ovf=   0, TotDurOvf=   0.hrs
00556>  001:0100---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00557>       ADD HYD             01:SWM1              277.80    2.540 No_date    4:43   16.31
00558>                         +  02:Spillflow         .00     .000 No_date    0:00     .00
00559>        [DT= 1.00]   SUM=  04:Pond 5yr          277.80    2.540 No_date    4:43   16.31
00560>  001:0101---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00561>       SAVE HYD            04:Pond 5yr          277.80    2.540 No_date    4:43   16.31
00562>         fname :C:\AUGUST\POST\CHI\Pond5yr.001
00563>         remark:Pond5yr
00564>  001:0102---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00565>       CALIB NASHYD        01:CottExt1          3.68     .184 No_date    3:03   20.77
00566>         [CN= 81.3: N= 3.00]
00567>         [Tp=  .21:DT= 1.00]
00568>  001:0103---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00569>       CALIB NASHYD        02:CottExt2          1.65     .072 No_date    3:01   16.48
00570>         [CN= 76.2: N= 3.00]
00571>         [Tp=  .15:DT= 1.00]
00572>  001:0104---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00573>       CALIB NASHYD        03:CottExt5           .38     .013 No_date    3:07   15.99
00574>         [CN= 76.0: N= 3.00]
00575>         [Tp=  .32:DT= 1.00]
00576>  001:0105---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00577>       CALIB STANDHYD      05:CottB             2.49     .185 No_date    3:00   35.87
00578>         [XIMP=.43:TIMP=.59]
00579>         [LOSS= 2 :CN= 79.0]
00580>         [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00581>         [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
00582>  001:0106---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00583>       ADD HYD             01:CottExt1          3.68     .184 No_date    3:03   20.77
00584>                         +  02:CottExt2          1.65     .072 No_date    3:01   16.48
00585>                         +  03:CottExt5           .38     .013 No_date    3:07   15.99
00586>                         +  04:Pond 5yr         277.80    2.540 No_date    4:43   16.31
00587>                         +  05:CottB            2.49     .185 No_date    3:00   35.87
00588>        [DT= 1.00]   SUM=  06:SWM1 Outle       286.00    2.587 No_date    4:43   16.54
00589>  001:0107---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00590>       CALIB STANDHYD      02:CottA             3.26     .236 No_date    3:00   34.92
00591>         [XIMP=.40:TIMP=.56]
00592>         [LOSS= 2 :CN= 79.0]
00593>         [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00594>         [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
00595>  001:0108---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00596>       CALIB NASHYD        03:CottExt6           .42     .019 No_date    3:00   16.00
00597>         [CN= 76.0: N= 3.00]
00598>         [Tp=  .09:DT= 1.00]
00599>  001:0109---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00600>       ADD HYD             02:CottA             3.26     .236 No_date    3:00   34.92
00601>                         +  03:CottExt6          .42     .019 No_date    3:00   16.00
00602>                         +  06:SWM1 Outle       286.00    2.587 No_date    4:43   16.54
00603>        [DT= 1.00]   SUM=  04:Sunset Out       289.68    2.612 No_date    4:43   16.74
00604> #*********************10 year Chicago Storm**********************************
00605> #******************************************************************************
00606>  001:0110---------------------------------------------------------------------
00607>       READ STORM
00608>         Filename = 10yr.stm
00609>         Comment  =
00610>         [SDT=60.00:SDUR=   6.00:PTOT=  66.00]
00611>  001:0111---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00612>       CALIB NASHYD        01:102              28.20    1.160 No_date    3:12   21.99
00613>         [CN= 74.2: N= 3.00]
00614>         [Tp=  .42:DT= 1.00]
00615>  001:0112---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00616>       ROUTE CHANNEL   -> 01:102            28.20    1.160 No_date    3:12   21.99
00617>         [RDT= 1.00] out<- 02:BCreek1         28.20    1.119 No_date    3:17   21.99
00618>         [L/S/n=  422./1.300/.070]
00619>         [Vmax=  .981:Dmax=  .582]
00620>  001:0113---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00621>       CALIB NASHYD        03:201C             21.60     .542 No_date    3:22   16.82
00622>         [CN= 65.7: N= 3.00]
00623>         [Tp=  .59:DT= 1.00]
00624>  001:0114---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00625>       ADD HYD             02:BCreek1           28.20    1.119 No_date    3:17   21.99
00626>                         +  03:201C             21.60     .542 No_date    3:22   16.82
00627>        [DT= 1.00]   SUM=  04:Add1             49.80    1.655 No_date    3:18   19.75
00628>  001:0115---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00629>       ROUTE PIPE      -> 04:Add1             49.80    1.655 No_date    3:18   19.75
00630>         [RDT= 1.00] out<- 01:Pipe1           49.80    1.655 No_date    3:19   19.75
00631>         [L/S/n=  162./2.160/.013]
00632>         [Vmax= 4.408:Dmax=  .514]
00633>         [Din=  .90:Dused=  .90]
00634>  001:0116---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00635>       CALIB NASHYD        02:301              44.80    1.499 No_date    3:21   21.85
00636>         [CN= 74.0: N= 3.00]
00637>         [Tp=  .58:DT= 1.00]
00638>  001:0117---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00639>       ROUTE CHANNEL   -> 02:301            44.80    1.499 No_date    3:21   21.85
00640>         [RDT= 1.00] out<- 03:Overland1       44.80     .934 No_date    4:27   21.85
00641>         [L/S/n=  676./2.600/.070]
00642>         [Vmax=  .212:Dmax=  .341]
00643>  001:0118---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00644>       CALIB NASHYD        04:201K              9.77     .311 No_date    3:18   19.69
00645>         [CN= 71.0: N= 3.00]
00646>         [Tp=  .53:DT= 1.00]
00647>  001:0119---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00648>       ADD HYD             03:Overland1         44.80     .934 No_date    4:27   21.85
00649>                         +  04:201K             9.77     .311 No_date    3:18   19.69
00650>        [DT= 1.00]   SUM=  02:Add2             54.57    1.094 No_date    3:51   21.47
00651>  001:0120---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00652>       ROUTE CHANNEL   -> 02:Add2             54.57    1.094 No_date    3:51   21.47
00653>         [RDT= 1.00] out<- 03:BCreek2         54.57    1.093 No_date    3:54   21.47
00654>         [L/S/n=  261./2.300/.070]
00655>         [Vmax= 1.170:Dmax=  .480]
00656>  001:0121---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00657>       ADD HYD             01:Pipe1             49.80    1.655 No_date    3:19   19.75
00658>                         +  03:BCreek2          54.57    1.093 No_date    3:54   21.47
00659>        [DT= 1.00]   SUM=  02:Add3             104.37    2.582 No_date    3:24   20.65
00660>  001:0122---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00661>       ROUTE CHANNEL   -> 02:Add3            104.37    2.582 No_date    3:24   20.65
00662>         [RDT= 1.00] out<- 03:BCreek3         104.37    2.580 No_date    3:26   20.65
00663>         [L/S/n=  204./3.000/.070]
00664>         [Vmax= 1.678:Dmax=  .720]
00665>  001:0123---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00666>       CALIB NASHYD        01:201D              4.08     .067 No_date    3:16    9.80
00667>         [CN= 46.2: N= 3.00]
00668>         [Tp=  .48:DT= 1.00]
00669>  001:0124---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00670>       CALIB NASHYD        02:201E              8.13     .240 No_date    3:23   20.26
00671>         [CN= 67.6: N= 3.00]
00672>         [Tp=  .62:DT= 1.00]
00673>  001:0125---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00674>       CALIB NASHYD        04:201F              9.08     .382 No_date    3:29   32.11
00675>         [CN= 81.9: N= 3.00]
00676>         [Tp=  .75:DT= 1.00]
00677>  001:0126---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00678>       CALIB STANDHYD      05:202B             16.01     .989 No_date    3:01   31.86
00679>         [XIMP=.35:TIMP=.50]
00680>         [LOSS= 2 :CN= 49.0]
00681>         [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00682>         [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
00683>  001:0127---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00684>       ADD HYD             01:201D              4.08     .067 No_date    3:16    9.80
00685>                         +  02:201E             8.13     .240 No_date    3:23   20.26
00686>                         +  03:BCreek3        104.37    2.580 No_date    3:26   20.65
00687>                         +  04:201F             9.08     .382 No_date    3:29   32.11
00688>                         +  05:202B            16.01     .989 No_date    3:01   31.86
00689>        [DT= 1.00]   SUM=  06:Add4            141.67    3.635 No_date    3:19   22.31
00690>  001:0128---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00691>       ROUTE CHANNEL   -> 06:Add4            141.67    3.635 No_date    3:19   22.31
00692>         [RDT= 1.00] out<- 01:BCreek4         141.67    3.603 No_date    3:24   22.31
00693>         [L/S/n=  647./3.000/.070]
00694>         [Vmax= 1.852:Dmax=  .866]
00695>  001:0129---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00696>       CALIB NASHYD        02:201G              4.38     .164 No_date    3:28   28.05
00697>         [CN= 78.4: N= 3.00]
00698>         [Tp=  .72:DT= 1.00]
00699>  001:0130---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00700>       ADD HYD             01:BCreek4         141.67    3.603 No_date    3:24   22.31
00701>                         +  02:201G             4.38     .164 No_date    3:28   28.05
00702>        [DT= 1.00]   SUM=  03:Add5            146.05    3.767 No_date    3:24   22.49
00703>  001:0131---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00704>       CALIB NASHYD        01:303              20.60    1.069 No_date    3:04   21.48
00705>         [CN= 73.6: N= 3.00]
00706>         [Tp=  .23:DT= 1.00]
00707>  001:0132---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00708>       ROUTE CHANNEL   -> 01:303            20.60    1.069 No_date    3:04   21.48
00709>         [RDT= 1.00] out<- 02:Overland2       20.60     .659 No_date    3:31   21.48
00710>         [L/S/n=  550./2.300/.070]
00711>         [Vmax=  .194:Dmax=  .337]
00712>  001:0133---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00713>       CALIB NASHYD        04:201A             23.20     .886 No_date    3:15   21.81
00714>         [CN= 73.9: N= 3.00]
00715>         [Tp=  .47:DT= 1.00]
00716>  001:0134---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00717>       ADD HYD             02:Overland2       20.60     .659 No_date    3:31   21.48
00718>                         +  04:201A             23.20     .886 No_date    3:15   21.81
00719>        [DT= 1.00]   SUM=  05:Add6            43.80    1.477 No_date    3:22   21.66
00720>  001:0135---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00721>       ROUTE CHANNEL   -> 05:Add6            43.80    1.477 No_date    3:22   21.66
00722>         [RDT= 1.00] out<- 08:Overland3       43.80    1.103 No_date    4:03   21.66
00723>         [L/S/n=  500./4.000/.070]
00724>         [Vmax=  .257:Dmax=  .337]
00725>  001:0136---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00726>       CALIB NASHYD        01:201J             16.40     .676 No_date    3:13   22.90
00727>         [CN= 74.8: N= 3.00]
00728>         [Tp=  .45:DT= 1.00]
00729>  001:0137---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00730>       ROUTE CHANNEL   -> 01:201J           16.40     .676 No_date    3:13   22.90
00731>         [RDT= 1.00] out<- 02:Overland4       14.40     .484 No_date    3:50   22.90
00732>         [L/S/n=  656./2.400/.070]
00733>         [Vmax=  .222:Dmax=  .327]
00734>  001:0138---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00735>       CALIB NASHYD        06:201L             22.10     .845 No_date    3:18   23.73
00736>         [CN= 75.5: N= 3.00]
00737>         [Tp=  .54:DT= 1.00]
00738>  001:0139---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00739>       ADD HYD             02:Overland4       16.40     .484 No_date    3:50   22.90
00740>                         +  06:201L             22.10     .845 No_date    3:18   23.73
00741>        [DT= 1.00]   SUM=  05:Add7a           38.50    1.223 No_date    3:25   23.37
00742>  001:0140---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00743>       ROUTE PIPE      -> 05:Add7a            38.50    1.223 No_date    3:25   23.37
00744>  *    [RDT= 1.00] out<- 01:SitePipe        38.50    1.221 No_date    3:28   23.37
00745>         [L/S/n=  410./1.340/.013]
00746>         [Vmax= 3.281:Dmax=  .604]
00747>         [Din=  .53:Dused=  .74]
00748>  001:0141---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00749>       CALIB NASHYD        04:201B             13.00     .541 No_date    3:12   22.66
00750>         [CN= 73.1: N= 3.00]
00751>         [Tp=  .43:DT= 1.00]
00752>  001:0142---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00753>       CALIB STANDHYD      02:202E              7.88     .727 No_date    3:00   44.41
00754>         [XIMP=.35:TIMP=.50]
00755>         [LOSS= 2 :CN= 79.0]
00756>         [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00757>         [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=    .0]
00758>  001:0143---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00759>       ADD HYD             01:SitePipe        38.50    1.221 No_date    3:28   23.37
00760>                         +  02:202E             7.88     .727 No_date    3:00   44.41
00761>                         +  04:201B            13.00     .541 No_date    3:12   22.66
00762>                         +  08:Overland3       43.80    1.103 No_date    4:03   21.66
00763>        [DT= 1.00]   SUM=  07:Add7b           103.18    2.838 No_date    3:22   24.16
00764>  001:0144---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00765>       ROUTE PIPE      -> 07:Add7b           103.18    2.838 No_date    3:22   24.16
00766>  *    [RDT= 1.00] out<- 01:Pipe2           103.18    2.837 No_date    3:24   24.16
00767>         [L/S/n=  450./1.500/.013]
00768>         [Vmax= 4.224:Dmax=  .810]
00769>         [Din=  .75:Dused=  .99]
00770>  001:0145---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00771>       CALIB NASHYD        02:201H              9.17     .143 No_date    3:15    9.22
00772>         [CN= 43.9: N= 3.00]
00773>         [Tp=  .47:DT= 1.00]
00774>  001:0146---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00775>       ROUTE PIPE      -> 02:201H             9.17     .143 No_date    3:15    9.22
00776>         [RDT= 1.00] out<- 04:Pipe3           9.17     .142 No_date    3:18    9.22
00777>         [L/S/n=  435./1.300/.013]
00778>         [Vmax= 1.965:Dmax=  .194]
00779>         [Din=  .53:Dused=  .53]
00780>  001:0147---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00781>       CALIB STANDHYD      05:202C             12.60    1.150 No_date    3:00   44.41
00782>         [XIMP=.35:TIMP=.50]
00783>         [LOSS= 2 :CN= 79.0]
00784>         [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
00785>         [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
00786>  001:0148---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00787>       ADD HYD             01:Pipe2           103.18    2.837 No_date    3:24   24.16
00788>                         +  04:Pipe3            9.17     .142 No_date    3:18    9.22
00789>                         +  05:202C            12.60    1.150 No_date    3:00   44.41
00790>        [DT= 1.00]   SUM=  06:Add8            124.95    3.880 No_date    3:05   25.11
00791>  001:0149---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00792>       ROUTE PIPE      -> 06:Add8            124.95    3.880 No_date    3:05   25.11
00793>  *    [RDT= 1.00] out<- 01:Pipe4           124.95    3.876 No_date    3:06   25.11
00794>         [L/S/n=  305./5.000/.013]
00795>         [Vmax= 7.174:Dmax=  .727]
00796>         [Din=  .75:Dused=  .89]
00797>  001:0150---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00798>       ADD HYD             01:Pipe4           124.95    3.876 No_date    3:06   25.11
00799>                         +  03:Add5           146.05    3.767 No_date    3:24   22.49
00800>        [DT= 1.00]   SUM=  02:Add9            271.00    7.291 No_date    3:11   23.69
00801>  001:0151---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00802>       CALIB NASHYD        01:SWMF              6.80     .732 No_date    3:00   46.17
00803>         [CN= 91.7: N= 3.00]
00804>         [Tp=  .05:DT= 1.00]
00805>  001:0152---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00806>       ADD HYD             01:SWMF              6.80     .732 No_date    3:00   46.17
00807>                         +  02:Add9            271.00    7.291 No_date    3:11   23.69
00808>        [DT= 1.00]   SUM=  03:Add10           277.80    7.415 No_date    3:10   24.24
00809>  001:0153---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00810>       ROUTE RESERVOIR -> 03:Add10           277.80    7.415 No_date    3:10   24.24
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00811>       (RDT= 1.00) out<- 01:SWM1          277.80    4.158 No_date    4:35   24.24
00812>            overflow <- 02:Spillflow        .00     .000 No_date    0:00     .00
00813>     (MxStoUsed=.3093E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
00814> 001:0154----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00815>       ADD HYD            01:SWM1          277.80    4.158 No_date    4:35   24.24
00816>                        + 02:Spillflow       .00     .000 No_date    0:00     .00
00817>       [DT= 1.00]  SUM=  04:Pond 10yr      277.80    4.158 No_date    4:35   24.24
00818> 001:0155----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00819>       SAVE HYD           04:Pond 10yr     277.80    4.158 No_date    4:35   24.24
00820>       fname :C:\AUGUST\POST\CHI\Pond10yr.001
00821>       remark:Pond10yr
00822> 001:0156----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00823>       CALIB NASHYD       01:CottExt1       3.68     .266 No_date    3:02   30.43
00824>        [CN= 81.3: N= 3.00]
00825>        [Tp=  .21:DT= 1.00]
00826> 001:0157----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00827>       CALIB NASHYD       02:CottExt2       1.65     .106 No_date    3:01   24.91
00828>        [CN= 76.2: N= 3.00]
00829>        [Tp=  .15:DT= 1.00]
00830> 001:0158----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00831>       CALIB NASHYD       03:CottExt5        .38     .020 No_date    3:07   24.34
00832>        [CN= 76.0: N= 3.00]
00833>        [Tp=  .32:DT= 1.00]
00834> 001:0159----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00835>       CALIB STANDHYD     05:CottB          2.49     .246 No_date    3:00   47.52
00836>        [XIMP=.43:TIMP=.59]
00837>        [LOSS= 2 :CN= 79.0]
00838>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00839>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
00840> 001:0160----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00841>       ADD HYD            01:CottExt1      3.68     .266 No_date    3:02   30.43
00842>                        + 02:CottExt2      1.65     .106 No_date    3:01   24.91
00843>                        + 03:CottExt5       .38     .020 No_date    3:07   24.34
00844>                        + 04:Pond 10yr    277.80    4.158 No_date    4:35   24.24
00845>                        + 05:CottB          2.49     .246 No_date    3:00   47.52
00846>       [DT= 1.00]  SUM=  06:SWM1 Outle   286.00    4.222 No_date    4:34   24.53
00847> 001:0161----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00848>       CALIB STANDHYD     02:CottA          3.26     .316 No_date    3:00   46.44
00849>        [XIMP=.40:TIMP=.56]
00850>        [LOSS= 2 :CN= 79.0]
00851>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00852>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
00853> 001:0162----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00854>       CALIB NASHYD       03:CottExt6       .42     .028 No_date    3:00   24.34
00855>        [CN= 76.0: N= 3.00]
00856>        [Tp=  .09:DT= 1.00]
00857> 001:0163----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00858>       ADD HYD            02:CottA          3.26     .316 No_date    3:00   46.44
00859>                        + 03:CottExt6       .42     .028 No_date    3:00   24.34
00860>                        + 06:SWM1 Outle   286.00    4.222 No_date    4:34   24.53
00861>       [DT= 1.00]  SUM=  04:Sunset Out   289.68    4.253 No_date    4:34   24.77
00862> #*************************************************************************
00863> #************************25 year Chicago Storm****************************
00864> #*************************************************************************
00865> 001:0164----------------------------------------------------------------------
00866>       READ STORM
00867>        Filename = 25yr.stm
00868>        Comment  =
00869>        [SDUR=60.00:SDUR=   6.00:PTOT=  77.90]
00870> 001:0165----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00871>       CALIB NASHYD       01:302           28.20    1.538 No_date    3:11   29.79
00872>        [CN= 74.2: N= 3.00]
00873>        [Tp=  .42:DT= 1.00]
00874> 001:0166----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00875>       ROUTE CHANNEL   -> 01:302           28.20    1.538 No_date    3:11   29.79
00876>        [RDT= 1.00] out<- 02:BCreek1       28.20    1.493 No_date    3:16   29.79
00877>        [L/S/n=  422./1.300/.070]
00878>        {Vmax= 1.070:Dmax=  .681}
00879> 001:0167----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00880>       CALIB NASHYD       03:201C          21.60     .737 No_date    3:22   23.21
00881>        [CN= 65.7: N= 3.00]
00882>        [Tp=  .59:DT= 1.00]
00883> 001:0168----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00884>       ADD HYD            02:BCreek1       28.20    1.493 No_date    3:16   29.79
00885>                        + 03:201C          21.60     .737 No_date    3:22   23.21
00886>       [DT= 1.00]  SUM=  04:Add1          49.80    2.221 No_date    3:18   26.94
00887> 001:0169----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00888>       ROUTE PIPE      -> 04:Add1          49.80    2.221 No_date    3:18   26.94
00889>        [RDT= 1.00] out<- 01:Pipe1         49.80    2.221 No_date    3:18   26.94
00890>        [L/S/n=  162./2.160/.013]
00891>        {Vmax= 4.681:Dmax=  .629}
00892>        [Din=  .90:Dused=  .90]
00893> 001:0170----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00894>       CALIB NASHYD       02:301           44.80    2.003 No_date    3:20   29.62
00895>        [CN= 74.0: N= 3.00]
00896>        [Tp=  .58:DT= 1.00]
00897> 001:0171----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00898>       ROUTE CHANNEL   -> 02:301           44.80    2.003 No_date    3:20   29.62
00899>        [RDT= 1.00] out<- 03:Overland1     44.80    1.248 No_date    4:00   29.62
00900>        [L/S/n=  676./2.600/.070]
00901>        {Vmax=  .219:Dmax=  .346}
00902> 001:0172----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00903>       CALIB NASHYD       04:201K           9.77     .418 No_date    3:18   26.93
00904>        [CN= 71.0: N= 3.00]
00905>        [Tp=  .53:DT= 1.00]
00906> 001:0173----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00907>       ADD HYD            03:Overland1     44.80    1.248 No_date    4:00   29.62
00908>                        + 04:201K          9.77     .418 No_date    3:18   26.93
00909>       [DT= 1.00]  SUM=  02:Add2          54.57    1.515 No_date    3:49   29.14
00910> 001:0174----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00911>       ROUTE CHANNEL   -> 02:Add2          54.57    1.515 No_date    3:49   29.14
00912>        [RDT= 1.00] out<- 03:BCreek2       54.57    1.513 No_date    3:51   29.14
00913>        [L/S/n=  261./2.300/.070]
00914>        {Vmax= 1.298:Dmax=  .576}
00915> 001:0175----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00916>       ADD HYD            01:Pipe1         49.80    2.221 No_date    3:18   26.94
00917>                        + 03:BCreek2       54.57    1.513 No_date    3:51   29.14
00918>       [DT= 1.00]  SUM=  02:Add3          104.37   3.446 No_date    3:24   28.09
00919> 001:0176----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00920>       ROUTE CHANNEL   -> 02:Add3          104.37   3.446 No_date    3:24   28.09
00921>        [RDT= 1.00] out<- 03:BCreek3       104.37   3.443 No_date    3:26   28.09
00922>        [L/S/n=  204./3.000/.070]
00923>        {Vmax= 1.827:Dmax=  .843}
00924> 001:0177----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00925>       CALIB NASHYD       01:201D           4.08     .091 No_date    3:15   13.70
00926>        [CN= 46.2: N= 3.00]
00927>        [Tp=  .48:DT= 1.00]
00928> 001:0178----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00929>       CALIB NASHYD       02:201E           8.13     .316 No_date    3:22   27.19
00930>        [CN= 67.6: N= 3.00]
00931>        [Tp=  .62:DT= 1.00]
00932> 001:0179----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00933>       CALIB NASHYD       04:201F           9.08     .487 No_date    3:28   41.55
00934>        [CN= 81.9: N= 3.00]
00935>        [Tp=  .75:DT= 1.00]
00936> 001:0180----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00937>       CALIB STANDHYD     05:202B          16.01    1.213 No_date    3:00   39.41
00938>        {XIMP=.35:TIMP=.50]
00939>        [LOSS= 2 :CN= 49.0]
00940>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00941>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
00942> 001:0181----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00943>       ADD HYD            01:201D           4.08     .091 No_date    3:15   13.70
00944>                        + 02:201E           8.13     .316 No_date    3:22   27.19
00945>                        + 03:BCreek3      104.37    3.443 No_date    3:26   28.09
00946>                        +  04:201F          9.08     .487 No_date    3:28   41.55
00947>                        +  05:202B         16.01    1.213 No_date    3:00   39.41
00948>       [DT= 1.00]  SUM=  06:Add4          141.67   4.766 No_date    3:19   29.77
00949> 001:0182----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00950>       ROUTE CHANNEL   -> 06:Add4         141.67   4.766 No_date    3:19   29.77
00951>        [RDT= 1.00] out<- 01:BCreek4      141.67   4.738 No_date    3:23   29.77
00952>        [L/S/n=  647./3.000/.070]
00953>        {Vmax= 1.996:Dmax= 1.001}
00954> 001:0183----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00955>       CALIB NASHYD       02:201G           4.38     .213 No_date    3:27   36.82
00956>        [CN= 78.4: N= 3.00]
00957>        [Tp=  .72:DT= 1.00]
00958> 001:0184----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00959>       ADD HYD            01:BCreek4       141.67   4.738 No_date    3:23   29.77
00960>                        + 02:201G          4.38     .213 No_date    3:27   36.82
00961>       [DT= 1.00]  SUM=  03:Add5          146.05   4.949 No_date    3:24   29.98
00962> 001:0185----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00963>       CALIB NASHYD       01:303           20.60    1.397 No_date    3:03   29.17
00964>        [CN= 73.6: N= 3.00]
00965>        [Tp=  .23:DT= 1.00]
00966> 001:0186----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00967>       ROUTE CHANNEL   -> 01:303           20.60    1.397 No_date    3:03   29.17
00968>        [RDT= 1.00] out<- 02:Overland2     20.60     .807 No_date    3:34   29.17
00969>        [L/S/n=  550./2.300/.070]
00970>        {Vmax=  .199:Dmax=  .341}
00971> 001:0187----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00972>       CALIB NASHYD       04:201A          23.20    1.179 No_date    3:14   29.57
00973>        [CN= 73.9: N= 3.00]
00974>        [Tp=  .47:DT= 1.00]
00975> 001:0188----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00976>       ADD HYD            02:Overland2     20.60     .807 No_date    3:34   29.17
00977>                        + 04:201A          23.20    1.179 No_date    3:14   29.57
00978>       [DT= 1.00]  SUM=  05:Add6          43.80    1.897 No_date    3:15   29.38
00979> 001:0189----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00980>       ROUTE CHANNEL   -> 05:Add6          43.80    1.897 No_date    3:15   29.38
00981>        [RDT= 1.00] out<- 08:Overland3     43.80    1.450 No_date    3:47   29.38
00982>        [L/S/n=  500./4.000/.070]
00983>        {Vmax=  .263:Dmax=  .341}
00984> 001:0190----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00985>       CALIB NASHYD       01:201J          16.40     .892 No_date    3:13   30.85
00986>        [CN= 74.8: N= 3.00]
00987>        [Tp=  .45:DT= 1.00]
00988> 001:0191----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00989>       ROUTE CHANNEL   -> 01:201J          16.40     .892 No_date    3:13   30.85
00990>        [RDT= 1.00] out<- 02:Overland4     16.40     .601 No_date    3:51   30.85
00991>        [L/S/n=  656./2.400/.070]
00992>        {Vmax=  .195:Dmax=  .335}
00993> 001:0192----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00994>       CALIB NASHYD       06:201L          22.10    1.115 No_date    3:18   31.83
00995>        [CN= 75.5: N= 3.00]
00996>        [Tp=  .54:DT= 1.00]
00997> 001:0193----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00998>       ADD HYD            02:Overland4     16.40     .601 No_date    3:51   30.85
00999>                        + 06:201L          22.10    1.115 No_date    3:18   31.83
01000>       [DT= 1.00]  SUM=  05:Add7a         38.50    1.566 No_date    3:22   31.41
01001> 001:0194----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01002>       ROUTE PIPE      -> 05:Add7a         38.50    1.566 No_date    3:22   31.41
01003> *     (RDT= 1.00] out<- 01:SitePipe       38.50    1.562 No_date    3:25   31.41
01004>        [L/S/n=  410./1.340/.013]
01005>        {Vmax= 3.490:Dmax=  .662}
01006>        {Din=  .53:Dused=  .81}
01007> 001:0195----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01008>       CALIB NASHYD       04:201B          13.00     .710 No_date    3:11   30.40
01009>        [CN= 73.1: N= 3.00]
01010>        [Tp=  .43:DT= 1.00]
01011> 001:0196----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01012>       CALIB STANDHYD     02:202E           7.88     .882 No_date    3:00   54.86
01013>        {XIMP=.35:TIMP=.50]
01014>        [LOSS= 2 :CN= 79.0]
01015>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01016>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=   .0]
01017> 001:0197----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01018>       ADD HYD            01:SitePipe      38.50    1.562 No_date    3:25   31.41
01019>                        + 02:202E          7.88     .882 No_date    3:00   54.86
01020>                        + 04:201B          13.00     .710 No_date    3:11   30.40
01021>                        + 08:Overland3     43.80    1.450 No_date    3:47   29.38
01022>       (DT= 1.00]  SUM=  07:Add7b         103.18   3.678 No_date    3:24   32.21
01023> 001:0198----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01024>       ROUTE PIPE      -> 07:Add7b         103.18   3.678 No_date    3:24   32.21
01025> *     (RDT= 1.00] out<- 01:Pipe2          103.18   3.676 No_date    3:26   32.21
01026>        (L/S/n=  450./1.500/.013]
01027>        {Vmax= 4.507:Dmax=  .893}
01028>        [Din=  .75:Dused= 1.09]
01029> 001:0199----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01030>       CALIB NASHYD       02:201H           9.17     .195 No_date    3:15   12.87
01031>        [CN= 43.9: N= 3.00]
01032>        [Tp=  .47:DT= 1.00]
01033> 001:0200----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01034>       ROUTE PIPE      -> 02:201H          9.17     .195 No_date    3:15   12.87
01035>        [RDT= 1.00] out<- 04:Pipe3          9.17     .194 No_date    3:18   12.87
01036>        [L/S/n=  435./1.300/.013]
01037>        {Vmax= 2.134:Dmax=  .230}
01038>        [Din=  .53:Dused=  .53]
01039> 001:0201----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01040>       CALIB STANDHYD     05:202C          12.60    1.396 No_date    3:00   54.86
01041>        [XIMP=.35:TIMP=.50]
01042>        [LOSS= 2 :CN= 79.0]
01043>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01044>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
01045> 001:0202----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01046>       ADD HYD            01:Pipe2         103.18   3.676 No_date    3:26   32.21
01047>                        + 04:Pipe3          9.17     .194 No_date    3:18   12.87
01048>                        + 05:202C          12.60    1.396 No_date    3:00   54.86
01049>       [DT= 1.00]  SUM=  06:Add8          124.95   4.943 No_date    3:05   33.08
01050> 001:0203----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01051>       ROUTE PIPE      -> 06:Add8         124.95   4.943 No_date    3:05   33.08
01052> *     (RDT= 1.00] out<- 01:Pipe4         124.95   4.938 No_date    3:06   33.08
01053>        [L/S/n=  305./5.000/.013]
01054>        {Vmax= 7.622:Dmax=  .796}
01055>        [Din=  .75:Dused=  .97]
01056> 001:0204----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01057>       ADD HYD            01:Pipe4         124.95   4.938 No_date    3:06   33.08
01058>                        + 03:Add5          146.05   4.949 No_date    3:24   29.98
01059>       [DT= 1.00]  SUM=  02:Add9          271.00   9.470 No_date    3:10   31.41
01060> 001:0205----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01061>       CALIB NASHYD       01:SWMF           6.80     .868 No_date    3:00   57.32
01062>        [CN= 91.7: N= 3.00]
01063>        [Tp=  .05:DT= 1.00]
01064> 001:0206----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01065>       ADD HYD            01:SWMF           6.80     .868 No_date    3:00   57.32
01066>                        + 02:Add9          271.00   9.470 No_date    3:10   31.41
01067>       [DT= 1.00]  SUM=  03:Add10         277.80   9.649 No_date    3:08   32.04
01068> 001:0207----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01069>       ROUTE RESERVOIR -> 03:Add10        277.80   9.649 No_date    3:08   32.04
01070>        [RDT= 1.00] out<- 01:SWM1         277.80   5.686 No_date    4:29   32.04
01071>             overflow <- 02:Spillflow       .00     .000 No_date    0:00     .00
01072>     (MxStoUsed=.3770E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
01073> 001:0208----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01074>       ADD HYD            01:SWM1          277.80   5.686 No_date    4:29   32.04
01075>                        + 02:Spillflow       .00     .000 No_date    0:00     .00
01076>       [DT= 1.00]  SUM=  04:Pond 25yr      277.80   5.686 No_date    4:29   32.04
01077> 001:0209----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01078>       SAVE HYD           04:Pond 25yr     277.80   5.686 No_date    4:29   32.04
01079>       fname :C:\AUGUST\POST\CHI\Pond25yr.001
01080>       remark:Pond25yr
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01081>  001:0210--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01082>      CALIB NASHYD       01:CottExt1          3.68      .334 No_date    3:02   39.70
01083>        [CN= 81.3: N= 3.00]
01084>        [Tp=  .21:DT= 1.00]
01085>  001:0211--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01086>      CALIB NASHYD       02:CottExt2          1.65      .135 No_date    3:01   33.19
01087>        [CN= 76.2: N= 3.00]
01088>        [Tp=  .15:DT= 1.00]
01089>  001:0212--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01090>      CALIB NASHYD       03:CottExt5          .38      .026 No_date    3:06   32.55
01091>        [CN= 76.0: N= 3.00]
01092>        [Tp=  .32:DT= 1.00]
01093>  001:0213--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01094>      CALIB STANDHYD     05:CottB             2.49      .295 No_date    3:00   58.25
01095>        {XIMP=.43:TIMP=.59}
01096>        {LOSS= 2 :CN= 79.0}
01097>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01098>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
01099>  001:0214--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01100>      ADD HYD            01:CottExt1          3.68      .334 No_date    3:02   39.70
01101>                       + 02:CottExt2          1.65      .135 No_date    3:01   33.19
01102>                       + 03:CottExt5           .38      .026 No_date    3:06   32.55
01103>                       + 04:Pond 25yr       277.80    5.686 No_date    4:29   32.04
01104>                       + 05:CottB             2.49      .295 No_date    3:00   58.25
01105>        [DT= 1.00]  SUM=  06:SWM1 Outle    286.00    5.773 No_date    4:28   32.37
01106>  001:0215--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01107>      CALIB STANDHYD     02:CottA             3.26      .379 No_date    3:00   57.08
01108>        {XIMP=.40:TIMP=.56}
01109>        [LOSS= 2 :CN= 79.0]
01110>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01111>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
01112>  001:0216--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01113>      CALIB NASHYD       03:CottExt6           .42      .036 No_date    3:00   32.55
01114>        [CN= 76.0: N= 3.00]
01115>        [Tp=  .09:DT= 1.00]
01116>  001:0217--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01117>      ADD HYD            02:CottA             3.26      .379 No_date    3:00   57.08
01118>                       + 03:CottExt6           .42      .036 No_date    3:00   32.55
01119>                       + 06:SWM1 Outle      286.00    5.773 No_date    4:28   32.37
01120>        [DT= 1.00]  SUM=  04:Sunset Out    289.68    5.814 No_date    4:27   32.65
01121> #*************************************************************************
01122> #************************50 year Chicago Storm****************************
01123> #*************************************************************************
01124>  001:0218--------------------------------------------------------------------
01125>      READ STORM
01126>        Filename = 50yr.stm
01127>        Comment  =
01128>        [SDT=60.00:SDUR=    6.00:PTOT=  83.90]
01129>  001:0219--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01130>      CALIB NASHYD       01:302              28.20    1.744 No_date    3:11   33.95
01131>        [CN= 74.2: N= 3.00]
01132>        [Tp=  .42:DT= 1.00]
01133>  001:0220--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01134>      ROUTE CHANNEL   -> 01:302              28.20    1.744 No_date    3:11   33.95
01135>        [RDT= 1.00] out<- 02:BCreek1         28.20    1.698 No_date    3:15   33.95
01136>        [L/S/n=  422./1.300/.070]
01137>        {Vmax= 1.114:Dmax=  .731}
01138>  001:0221--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01139>      CALIB NASHYD       03:201C             21.60      .845 No_date    3:21   26.68
01140>        [CN= 65.7: N= 3.00]
01141>        [Tp=  .59:DT= 1.00]
01142>  001:0222--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01143>      ADD HYD            02:BCreek1           28.20    1.698 No_date    3:15   33.95
01144>                       + 03:201C              21.60      .845 No_date    3:21   26.68
01145>        [DT= 1.00]  SUM=  04:Add1            49.80    2.531 No_date    3:17   30.80
01146>  001:0223--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01147>      ROUTE PIPE      -> 04:Add1             49.80    2.531 No_date    3:17   30.80
01148>        [RDT= 1.00] out<- 01:Pipe1           49.80    2.530 No_date    3:18   30.80
01149>        [L/S/n=  162./2.160/.013]
01150>        {Vmax= 4.760:Dmax=  .701}
01151>        [Din=  .90:Dused=  .90]
01152>  001:0224--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01153>      CALIB NASHYD       02:301              44.80    2.277 No_date    3:20   33.77
01154>        [CN= 74.0: N= 3.00]
01155>        [Tp=  .58:DT= 1.00]
01156>  001:0225--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01157>      ROUTE CHANNEL   -> 02:301              44.80    2.277 No_date    3:20   33.77
01158>        [RDT= 1.00] out<- 03:Overland1       44.80    1.433 No_date    3:58   33.77
01159>        [L/S/n=  676./2.600/.070]
01160>        {Vmax=  .224:Dmax=  .349}
01161>  001:0226--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01162>      CALIB NASHYD       04:201K              9.77      .477 No_date    3:17   30.81
01163>        [CN= 71.0: N= 3.00]
01164>        [Tp=  .53:DT= 1.00]
01165>  001:0227--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01166>      ADD HYD            03:Overland1         44.80    1.433 No_date    3:58   33.77
01167>                       + 04:201K              9.77      .477 No_date    3:17   30.81
01168>        [DT= 1.00]  SUM=  02:Add2            54.57    1.743 No_date    3:47   33.24
01169>  001:0228--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01170>      ROUTE CHANNEL   -> 02:Add2             54.57    1.743 No_date    3:47   33.24
01171>        [RDT= 1.00] out<- 03:BCreek2         54.57    1.742 No_date    3:49   33.24
01172>        [L/S/n=  261./2.300/.070]
01173>        {Vmax= 1.361:Dmax=  .625}
01174>  001:0229--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01175>      ADD HYD            01:Pipe1             49.80    2.530 No_date    3:18   30.80
01176>                       + 03:BCreek2           54.57    1.742 No_date    3:49   33.24
01177>        [DT= 1.00]  SUM=  02:Add3           104.37    3.943 No_date    3:25   32.07
01178>  001:0230--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01179>      ROUTE CHANNEL   -> 02:Add3            104.37    3.943 No_date    3:25   32.07
01180>        [RDT= 1.00] out<- 03:BCreek3       104.37    3.940 No_date    3:26   32.07
01181>        [L/S/n=  204./3.000/.070]
01182>        {Vmax= 1.894:Dmax=  .905}
01183>  001:0231--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01184>      CALIB NASHYD       01:201D              4.08      .105 No_date    3:15   15.86
01185>        [CN= 46.2: N= 3.00]
01186>        [Tp=  .48:DT= 1.00]
01187>  001:0232--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01188>      CALIB NASHYD       02:201E              8.13      .358 No_date    3:22   30.91
01189>        [CN= 67.6: N= 3.00]
01190>        [Tp=  .62:DT= 1.00]
01191>  001:0233--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01192>      CALIB NASHYD       04:201F              9.08      .543 No_date    3:28   46.47
01193>        [CN= 81.9: N= 3.00]
01194>        [Tp=  .75:DT= 1.00]
01195>  001:0234--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01196>      CALIB STANDHYD     05:202B             16.01    1.333 No_date    3:00   43.36
01197>        {XIMP=.35:TIMP=.50}
01198>        {LOSS= 2 :CN= 49.0}
01199>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01200>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
01201>  001:0235--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01202>      ADD HYD            01:201D              4.08      .105 No_date    3:15   15.86
01203>                       + 02:201E              8.13      .358 No_date    3:22   30.91
01204>                       + 03:BCreek3         104.37    3.940 No_date    3:26   32.07
01205>                       + 04:201F              9.08      .543 No_date    3:28   46.47
01206>                       + 05:202B             16.01    1.333 No_date    3:00   43.36
01207>        [DT= 1.00]  SUM=  06:Add4            141.67    5.397 No_date    3:20   33.74
01208>  001:0236--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01209>      ROUTE CHANNEL   -> 06:Add4            141.67    5.397 No_date    3:20   33.74
01210>        [RDT= 1.00] out<- 01:BCreek4       141.67    5.376 No_date    3:24   33.74
01211>        [L/S/n=  647./3.000/.070]
01212>        {Vmax= 2.067:Dmax= 1.070}
01213>  001:0237--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01214>      CALIB NASHYD       02:201G              4.38      .238 No_date    3:27   41.42
01215>        [CN= 78.4: N= 3.00]
01216>        [Tp=  .72:DT= 1.00]
01217>  001:0238--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01218>      ADD HYD            01:BCreek4         141.67    5.376 No_date    3:24   33.74
01219>                       + 02:201G              4.38      .238 No_date    3:27   41.42
01220>        [DT= 1.00]  SUM=  03:Add5            146.05    5.614 No_date    3:24   33.97
01221>  001:0239--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01222>      CALIB NASHYD       01:303              20.60    1.576 No_date    3:03   33.28
01223>        [CN= 73.6: N= 3.00]
01224>        [Tp=  .23:DT= 1.00]
01225>  001:0240--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01226>      ROUTE CHANNEL   -> 01:303              20.60    1.576 No_date    3:03   33.28
01227>        [RDT= 1.00] out<- 02:Overland2       20.60      .908 No_date    3:35   33.28
01228>        [L/S/n=  550./2.300/.070]
01229>        {Vmax=  .202:Dmax=  .343}
01230>  001:0241--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01231>      CALIB NASHYD       04:201A              23.20    1.338 No_date    3:14   33.71
01232>        [CN= 73.9: N= 3.00]
01233>        [Tp=  .47:DT= 1.00]
01234>  001:0242--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01235>      ADD HYD            02:Overland2         20.60      .908 No_date    3:35   33.28
01236>                       + 04:201A              23.20    1.338 No_date    3:14   33.71
01237>        [DT= 1.00]  SUM=  05:Add6            43.80    2.148 No_date    3:16   33.51
01238>  001:0243--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01239>      ROUTE CHANNEL   -> 05:Add6             43.80    2.148 No_date    3:16   33.51
01240>        [RDT= 1.00] out<- 08:Overland3       43.80    1.653 No_date    3:45   33.51
01241>        [L/S/n=  500./4.000/.070]
01242>        {Vmax=  .267:Dmax=  .343}
01243>  001:0244--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01244>      CALIB NASHYD       01:201J              16.40    1.010 No_date    3:12   35.08
01245>        [CN= 74.8: N= 3.00]
01246>        [Tp=  .45:DT= 1.00]
01247>  001:0245--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01248>      ROUTE CHANNEL   -> 01:201J             16.40    1.010 No_date    3:12   35.08
01249>        [RDT= 1.00] out<- 02:Overland4       16.40      .658 No_date    3:57   35.08
01250>        [L/S/n=  656./2.400/.070]
01251>        {Vmax=  .197:Dmax=  .336}
01252>  001:0246--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01253>      CALIB NASHYD       06:201L              22.10    1.261 No_date    3:17   36.13
01254>        [CN= 75.5: N= 3.00]
01255>        [Tp=  .54:DT= 1.00]
01256>  001:0247--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01257>      ADD HYD            02:Overland4         16.40      .658 No_date    3:57   35.08
01258>                       + 06:201L              22.10    1.261 No_date    3:17   36.13
01259>        [DT= 1.00]  SUM=  05:Add7a           38.50    1.765 No_date    3:22   35.68
01260>  001:0248--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01261>      ROUTE PIPE      -> 05:Add7a            38.50    1.765 No_date    3:22   35.68
01262>  *   [RDT= 1.00] out<- 01:SitePipe        38.50    1.762 No_date    3:24   35.68
01263>        [L/S/n=  410./1.340/.013]
01264>        {Vmax= 3.596:Dmax=  .693}
01265>        [Din=  .53:Dused=  .84}
01266>  001:0249--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01267>      CALIB NASHYD       04:201B              13.00      .802 No_date    3:11   34.52
01268>        [CN= 73.1: N= 3.00]
01269>        [Tp=  .43:DT= 1.00]
01270>  001:0250--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01271>      CALIB STANDHYD     02:202E              7.88      .962 No_date    3:00   60.22
01272>        [XIMP=.35:TIMP=.50]
01273>        [LOSS= 2 :CN= 79.0]
01274>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01275>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=    .0]
01276>  001:0251--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01277>      ADD HYD            01:SitePipe          38.50    1.762 No_date    3:24   35.68
01278>                       + 02:202E              7.88      .962 No_date    3:00   60.22
01279>                       + 04:201B              13.00      .802 No_date    3:11   34.52
01280>                       + 08:Overland3         43.80    1.653 No_date    3:45   33.51
01281>        [DT= 1.00]  SUM=  07:Add7b           103.18    4.171 No_date    3:23   36.49
01282>  001:0252--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01283>      ROUTE PIPE      -> 07:Add7b            103.18    4.171 No_date    3:23   36.49
01284>  *   [RDT= 1.00] out<- 01:Pipe2            103.18    4.169 No_date    3:24   36.49
01285>        [L/S/n=  450./1.500/.013]
01286>        {Vmax= 4.651:Dmax=  .936}
01287>        [Din=  .75:Dused= 1.14]
01288>  001:0253--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01289>      CALIB NASHYD       02:201H              9.17      .225 No_date    3:15   14.90
01290>        [CN= 43.9: N= 3.00]
01291>        [Tp=  .47:DT= 1.00]
01292>  001:0254--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01293>      ROUTE PIPE      -> 02:201H             9.17      .225 No_date    3:15   14.90
01294>        [RDT= 1.00] out<- 04:Pipe3           9.17      .223 No_date    3:17   14.90
01295>        [L/S/n=  435./1.300/.013]
01296>        {Vmax= 2.217:Dmax=  .249}
01297>        [Din=  .53:Dused=  .53}
01298>  001:0255--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01299>      CALIB STANDHYD     05:202C             12.60    1.525 No_date    3:00   60.22
01300>        [XIMP=.35:TIMP=.50]
01301>        [LOSS= 2 :CN= 79.0]
01302>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01303>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
01304>  001:0256--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01305>      ADD HYD            01:Pipe2            103.18    4.169 No_date    3:24   36.49
01306>                       + 04:Pipe3             9.17      .223 No_date    3:17   14.90
01307>                       + 05:202C             12.60    1.525 No_date    3:00   60.22
01308>        [DT= 1.00]  SUM=  06:Add8            124.95    5.525 No_date    3:05   37.30
01309>  001:0257--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01310>      ROUTE PIPE      -> 06:Add8             124.95    5.525 No_date    3:05   37.30
01311>  *   [RDT= 1.00] out<- 01:Pipe4            124.95    5.519 No_date    3:06   37.30
01312>        [L/S/n=  305./5.000/.013]
01313>        {Vmax= 7.837:Dmax=  .830}
01314>        [Din=  .75:Dused= 1.01}
01315>  001:0258--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01316>      ADD HYD            01:Pipe4            124.95    5.519 No_date    3:06   37.30
01317>                       + 03:Add5            146.05    5.614 No_date    3:24   33.97
01318>        [DT= 1.00]  SUM=  02:Add9            271.00   10.681 No_date    3:10   35.50
01319>  001:0259--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01320>      CALIB NASHYD       01:SWMF              6.80      .939 No_date    3:00   63.01
01321>        [CN= 91.7: N= 3.00]
01322>        [Tp=  .05:DT= 1.00]
01323>  001:0260--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01324>      ADD HYD            01:SWMF              6.80      .939 No_date    3:00   63.01
01325>                       + 02:Add9            271.00   10.681 No_date    3:10   35.50
01326>        [DT= 1.00]  SUM=  03:Add10           277.80   10.876 No_date    3:08   36.18
01327>  001:0261--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01328>      ROUTE RESERVOIR -> 03:Add10           277.80   10.876 No_date    3:08   36.18
01329>        [RDT= 1.00] out<- 01:SWM1            266.52    5.834 No_date    3:53   36.17
01330>              overflow <= 02:Spillflow        11.28    3.249 No_date    3:53   36.18
01331>        {MxStoUsed=.3636E+01, TotOvfVol=.4080E+00, N-Ovf=    2, TotDurOvf=    1.hrs
01332>  001:0262--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01333>      ADD HYD            01:SWM1             266.52    5.834 No_date    3:53   36.17
01334>                       + 02:Spillflow         11.28    3.249 No_date    3:53   36.18
01335>        [DT= 1.00]  SUM=  04:Pond 50yr       277.80    9.083 No_date    3:53   36.17
01336>  001:0263--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01337>      SAVE HYD           04:Pond 50yr         277.80    9.083 No_date    3:53   36.17
01338>        fname :C:\AUGUST\POST\CHI\Pond50yr.001
01339>        remark:Pond50yr
01340>  001:0264--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01341>      CALIB NASHYD       01:CottExt1          3.68      .371 No_date    3:02   44.55
01342>        [CN= 81.3: N= 3.00]
01343>        [Tp=  .21:DT= 1.00]
01344>  001:0265--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01345>      CALIB NASHYD       02:CottExt2          1.65      .151 No_date    3:01   37.57
01346>        [CN= 76.2: N= 3.00]
01347>        [Tp=  .15:DT= 1.00]
01348>  001:0266--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01349>      CALIB NASHYD       03:CottExt5           .38      .029 No_date    3:06   36.90
01350>        [CN= 76.0: N= 3.00]
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01351>       [Tp=  .32:DT= 1.00]
01352>  001:0267---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01353>      CALIB STANDHYD     05:CottB          2.49      .321 No_date    3:00    63.74
01354>        [XIMP=.43:TIMP=.59]
01355>        [LOSS= 2 :CN= 79.0]
01356>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01357>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
01358>  001:0268---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01359>      ADD HYD            01:CottExt1       3.68      .371 No_date    3:02    44.55
01360>                       + 02:CottExt2       1.65      .151 No_date    3:01    37.57
01361>                       + 03:CottExt5        .38      .029 No_date    3:06    36.90
01362>                       + 04:Pond 50yr    277.80    9.083 No_date    3:53    36.17
01363>                       + 05:CottB          2.49      .321 No_date    3:00    63.74
01364>      [DT= 1.00]  SUM=  06:SWM1 Outle   286.00    9.247 No_date    3:53    36.53
01365>  001:0269---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01366>      CALIB STANDHYD     02:CottA          3.26      .414 No_date    3:00    62.53
01367>        [XIMP=.40:TIMP=.56]
01368>        [LOSS= 2 :CN= 79.0]
01369>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01370>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
01371>  001:0270---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01372>      CALIB NASHYD       03:CottExt6        .42      .040 No_date    3:00    36.90
01373>        [CN= 76.0: N= 3.00]
01374>        [Tp=  .09:DT= 1.00]
01375>  001:0271---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01376>      ADD HYD            02:CottA          3.26      .414 No_date    3:00    62.53
01377>                       + 03:CottExt6        .42      .040 No_date    3:00    36.90
01378>                       + 06:SWM1 Outle   286.00    9.247 No_date    3:53    36.53
01379>    [DT= 1.00]  SUM=  04:Sunset Out   289.68    9.325 No_date    3:53    36.82
01380> ********************************************************************************
01381> **********************100 year Chicago Storm**********************************
01382> ********************************************************************************
01383>  001:0272---------------------------------------------------------------------
01384>      READ STORM
01385>        Filename = 100yr.stm
01386>        Comment  =
01387>        [SDT=60.00:SDUR=   6.00:PTOT=  96.00]
01388>  001:0273---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01389>      CALIB NASHYD       01:302            28.20    2.192 No_date    3:11    42.73
01390>        [CN= 74.2: N= 3.00]
01391>        [Tp=  .42:DT= 1.00]
01392>  001:0274---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01393>      ROUTE CHANNEL    -> 01:302          28.20    2.192 No_date    3:11    42.73
01394>        [RDT= 1.00] out<- 02:BCreek1      28.20    2.141 No_date    3:15    42.73
01395>        [L/S/n=  422./1.300/.070]
01396>        {Vmax= 1.189:Dmax=  .827}
01397>  001:0275---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01398>      CALIB NASHYD       03:201C           21.60    1.084 No_date    3:21    34.08
01399>        [CN= 65.7: N= 3.00]
01400>        [Tp=  .59:DT= 1.00]
01401>  001:0276---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01402>      ADD HYD            02:BCreek1        28.20    2.141 No_date    3:15    42.73
01403>                       + 03:201C           21.60    1.084 No_date    3:21    34.08
01404>      [DT= 1.00]  SUM=  04:Add1           49.80    3.208 No_date    3:16    38.98
01405>  001:0277---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01406>      ROUTE PIPE       -> 04:Add1         49.80    3.208 No_date    3:16    38.98
01407>  *   [RDT= 1.00] out<- 01:Pipe1          49.80    3.207 No_date    3:17    38.98
01408>        [L/S/n=  162./2.160/.013]
01409>        {Vmax= 4.994:Dmax=  .792}
01410>        [Din=  .90:Dused=  .97]
01411>  001:0278---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01412>      CALIB NASHYD       02:301            44.80    2.876 No_date    3:19    42.52
01413>        [CN= 74.0: N= 3.00]
01414>        [Tp=  .58:DT= 1.00]
01415>  001:0279---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01416>      ROUTE CHANNEL    -> 02:301          44.80    2.876 No_date    3:19    42.52
01417>        [RDT= 1.00] out<- 03:Overland1    44.80    1.846 No_date    3:55    42.52
01418>        [L/S/n=  676./2.600/.070]
01419>        {Vmax=  .235:Dmax=  .356}
01420>  001:0280---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01421>      CALIB NASHYD       04:201K           9.77      .606 No_date    3:17    39.06
01422>        [CN= 71.0: N= 3.00]
01423>        [Tp=  .53:DT= 1.00]
01424>  001:0281---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01425>      ADD HYD            03:Overland1      44.80    1.846 No_date    3:55    42.52
01426>                       + 04:201K           9.77      .606 No_date    3:17    39.06
01427>      [DT= 1.00]  SUM=  02:Add2           54.57    2.254 No_date    3:44    41.90
01428>  001:0282---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01429>      ROUTE CHANNEL    -> 02:Add2         54.57    2.254 No_date    3:44    41.90
01430>        [RDT= 1.00] out<- 03:BCreek2      54.57    2.251 No_date    3:47    41.90
01431>        [L/S/n=  261./2.300/.070]
01432>        {Vmax= 1.467:Dmax=  .719}
01433>  001:0283---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01434>      ADD HYD            01:Pipe1          49.80    3.207 No_date    3:17    38.98
01435>                       + 03:BCreek2        54.57    2.251 No_date    3:47    41.90
01436>    [DT= 1.00]  SUM=  02:Add3           104.37    5.066 No_date    3:24    40.50
01437>  001:0284---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01438>      ROUTE CHANNEL    -> 02:Add3        104.37    5.066 No_date    3:24    40.50
01439>        [RDT= 1.00] out<- 03:BCreek3     104.37    5.063 No_date    3:25    40.50
01440>        [L/S/n=  204./3.000/.070]
01441>        {Vmax= 2.032:Dmax= 1.035}
01442>  001:0285---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01443>      CALIB NASHYD       01:201D           4.08      .137 No_date    3:15    20.57
01444>        [CN= 46.2: N= 3.00]
01445>        [Tp=  .48:DT= 1.00]
01446>  001:0286---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01447>      CALIB NASHYD       02:201E           8.13      .450 No_date    3:22    38.80
01448>        [CN= 67.6: N= 3.00]
01449>        [Tp=  .62:DT= 1.00]
01450>  001:0287---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01451>      CALIB NASHYD       04:201F           9.08      .663 No_date    3:28    56.67
01452>        [CN= 81.9: N= 3.00]
01453>        [Tp=  .75:DT= 1.00]
01454>  001:0288---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01455>      CALIB STANDHYD     05:202B           16.01    1.596 No_date    3:00    51.58
01456>        [XIMP=.35:TIMP=.50]
01457>        [LOSS= 2 :CN= 49.0]
01458>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01459>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
01460>  001:0289---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01461>      ADD HYD            01:201D           4.08      .137 No_date    3:15    20.57
01462>                       + 02:201E           8.13      .450 No_date    3:22    38.80
01463>                       + 03:BCreek3      104.37    5.063 No_date    3:25    40.50
01464>                       + 04:201F           9.08      .663 No_date    3:28    56.67
01465>                       + 05:202B          16.01    1.596 No_date    3:00    51.58
01466>      [DT= 1.00]  SUM=  06:Add4           141.67    6.842 No_date    3:20    42.12
01467>  001:0290---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01468>      ROUTE CHANNEL    -> 06:Add4         141.67    6.842 No_date    3:20    42.12
01469>        [RDT= 1.00] out<- 01:BCreek4     141.67    6.807 No_date    3:24    42.12
01470>        [L/S/n=  647./3.000/.070]
01471>        {Vmax= 2.201:Dmax= 1.211}
01472>  001:0291---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01473>      CALIB NASHYD       02:201G           4.38      .294 No_date    3:26    51.04
01474>        [CN= 78.4: N= 3.00]
01475>        [Tp=  .72:DT= 1.00]
01476>  001:0292---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01477>      ADD HYD            01:BCreek4       141.67    6.807 No_date    3:24    42.12
01478>                       + 02:201G           4.38      .294 No_date    3:26    51.04
01479>      [DT= 1.00]  SUM=  03:Add5           146.05    7.101 No_date    3:24    42.39
01480>  001:0293---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01481>      CALIB NASHYD       01:303            20.60    1.962 No_date    3:03    41.95
01482>        [CN= 73.6: N= 3.00]
01483>        [Tp=  .23:DT= 1.00]
01484>  001:0294---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01485>      ROUTE CHANNEL    -> 01:303          20.60    1.962 No_date    3:03    41.95
01486>        [RDT= 1.00] out<- 02:Overland2    20.60    1.091 No_date    3:37    41.95
01487>        [L/S/n=  550./2.300/.070]
01488>        {Vmax=  .208:Dmax=  .347}
01489>  001:0295---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01490>      CALIB NASHYD       04:201A           23.20    1.686 No_date    3:13    42.44
01491>        [CN= 73.9: N= 3.00]
01492>        [Tp=  .47:DT= 1.00]
01493>  001:0296---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01494>      ADD HYD            02:Overland2      20.60    1.091 No_date    3:37    41.95
01495>                       + 04:201A           23.20    1.686 No_date    3:13    42.44
01496>      [DT= 1.00]  SUM=  05:Add6           43.80    2.744 No_date    3:15    42.21
01497>  001:0297---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01498>      ROUTE CHANNEL    -> 05:Add6         43.80    2.744 No_date    3:15    42.21
01499>        [RDT= 1.00] out<- 08:Overland3    43.80    2.100 No_date    3:43    42.21
01500>        [L/S/n=  500./4.000/.070]
01501>        {Vmax=  .277:Dmax=  .348}
01502>  001:0298---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01503>      CALIB NASHYD       01:201J           16.40    1.265 No_date    3:12    43.99
01504>        [CN= 74.8: N= 3.00]
01505>        [Tp=  .45:DT= 1.00]
01506>  001:0299---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01507>      ROUTE CHANNEL    -> 01:201J        16.40    1.265 No_date    3:12    43.99
01508>        [RDT= 1.00] out<- 02:Overland4    16.40     .766 No_date    4:02    43.99
01509>        [L/S/n=  656./2.400/.070]
01510>        {Vmax=  .201:Dmax=  .339}
01511>  001:0300---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01512>      CALIB NASHYD       06:201L           22.10    1.579 No_date    3:17    45.17
01513>        [CN= 75.5: N= 3.00]
01514>        [Tp=  .54:DT= 1.00]
01515>  001:0301---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01516>      ADD HYD            02:Overland4      16.40     .766 No_date    4:02    43.99
01517>                       + 06:201L           22.10    1.579 No_date    3:17    45.17
01518>      [DT= 1.00]  SUM=  05:Add7a          38.50    2.194 No_date    3:21    44.67
01519>  001:0302---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01520>      ROUTE PIPE       -> 05:Add7a        38.50    2.194 No_date    3:21    44.67
01521>  *   [RDT= 1.00] out<- 01:SitePipe       38.50    2.190 No_date    3:23    44.67
01522>        [L/S/n=  410./1.340/.013]
01523>        {Vmax= 3.797:Dmax=  .751}
01524>        [Din=  .53:Dused=  .92]
01525>  001:0303---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01526>      CALIB NASHYD       04:201B           13.00    1.002 No_date    3:11    43.21
01527>        [CN= 73.1: N= 3.00]
01528>        [Tp=  .43:DT= 1.00]
01529>  001:0304---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01530>      CALIB STANDHYD     02:202E            7.88    1.134 No_date    3:00    71.21
01531>        [XIMP=.35:TIMP=.50]
01532>        [LOSS= 2 :CN= 79.0]
01533>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01534>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=    .0]
01535>  001:0305---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01536>      ADD HYD            01:SitePipe       38.50    2.190 No_date    3:23    44.67
01537>                       + 02:202E            7.88    1.134 No_date    3:00    71.21
01538>                       + 04:201B           13.00    1.002 No_date    3:11    43.21
01539>                       + 08:Overland3      43.80    2.100 No_date    3:43    42.21
01540>      [DT= 1.00]  SUM=  07:Add7b          103.18    5.261 No_date    3:22    45.47
01541>  001:0306---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01542>      ROUTE PIPE       -> 07:Add7b        103.18    5.261 No_date    3:22    45.47
01543>  *   [RDT= 1.00] out<- 01:Pipe2          103.18    5.258 No_date    3:24    45.47
01544>        [L/S/n=  450./1.500/.013]
01545>        {Vmax= 4.929:Dmax= 1.021}
01546>        [Din=  .75:Dused= 1.24]
01547>  001:0307---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01548>      CALIB NASHYD       02:201H            9.17      .292 No_date    3:14    19.34
01549>        [CN= 43.9: N= 3.00]
01550>        [Tp=  .47:DT= 1.00]
01551>  001:0308---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01552>      ROUTE PIPE       -> 02:201H         9.17      .292 No_date    3:14    19.34
01553>        {RDT= 1.00] out<- 04:Pipe3         9.17      .290 No_date    3:17    19.34
01554>        {L/S/n=  435./1.300/.013]
01555>        {Vmax= 2.362:Dmax=  .291}
01556>        {Din=  .53:Dused=  .53]
01557>  001:0309---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01558>      CALIB STANDHYD     05:202C           12.60    1.800 No_date    3:00    71.21
01559>        [XIMP=.35:TIMP=.50]
01560>        [LOSS= 2 :CN= 79.0]
01561>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01562>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
01563>  001:0310---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01564>      ADD HYD            01:Pipe2         103.18    5.258 No_date    3:24    45.47
01565>                       + 04:Pipe3           9.17      .290 No_date    3:17    19.34
01566>                       + 05:202C           12.60    1.800 No_date    3:00    71.21
01567>      [DT= 1.00]  SUM=  06:Add8          124.95    6.762 No_date    3:05    46.15
01568>  001:0311---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01569>      ROUTE PIPE       -> 06:Add8        124.95    6.762 No_date    3:05    46.15
01570>  *   [RDT= 1.00] out<- 01:Pipe4         124.95    6.756 No_date    3:05    46.15
01571>        [L/S/n=  305./5.000/.013]
01572>        {Vmax= 8.243:Dmax=  .895}
01573>        [Din=  .75:Dused= 1.09]
01574>  001:0312---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01575>      ADD HYD            01:Pipe4         124.95    6.756 No_date    3:05    46.15
01576>                       + 03:Add5          146.05    7.101 No_date    3:24    42.39
01577>      [DT= 1.00]  SUM=  02:Add9          271.00   13.300 No_date    3:10    44.12
01578>  001:0313---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01579>      CALIB NASHYD       01:SWMF           6.80    1.086 No_date    3:00    74.58
01580>        {CN= 91.7: N= 3.00]
01581>        {Tp=  .05:DT= 1.00]
01582>  001:0314---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01583>      ADD HYD            01:SWMF           6.80    1.086 No_date    3:00    74.58
01584>                       + 02:Add9          271.00   13.300 No_date    3:10    44.12
01585>      [DT= 1.00]  SUM=  03:Add10         277.80   13.528 No_date    3:07    44.87
01586>  001:0315---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01587>      ROUTE RESERVOIR -> 03:Add10        277.80   13.528 No_date    3:07    44.87
01588>        [RDT= 1.00] out<- 01:SWM1        236.05    5.834 No_date    3:29    44.86
01589>              overflow <= 02:Spillflow    41.75    7.377 No_date    3:29    44.87
01590>        {MxStoUsed=.3836E+01, TotOvfVol=.1873E+01, N-Ovf=    3, TotDurOvf=    1.hrs
01591>  001:0316---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01592>      ADD HYD            01:SWM1          236.05    5.834 No_date    3:29    44.86
01593>                       + 02:Spillflow      41.75    7.377 No_date    3:29    44.87
01594>      [DT= 1.00]  SUM=  04:Pond 100yr    277.80   13.211 No_date    3:29    44.86
01595>  001:0317---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01596>      SAVE HYD           04:Pond 100yr     277.80   13.211 No_date    3:29    44.86
01597>        fname :C:\AUGUST\POST\CHI\Pond100yr.001
01598>        remark:Pond100yr
01599>  001:0318---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01600>      CALIB NASHYD       01:CottExt1       3.68      .448 No_date    3:02    54.61
01601>        [CN= 81.3: N= 3.00]
01602>        [Tp=  .21:DT= 1.00]
01603>  001:0319---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01604>      CALIB NASHYD       02:CottExt2       1.65      .184 No_date    3:01    46.76
01605>        [CN= 76.2: N= 3.00]
01606>        [Tp=  .15:DT= 1.00]
01607>  001:0320---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01608>      CALIB NASHYD       03:CottExt5        .38      .036 No_date    3:06    46.04
01609>        [CN= 76.0: N= 3.00]
01610>        [Tp=  .32:DT= 1.00]
01611>  001:0321---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01612>      CALIB STANDHYD     05:CottB          2.49      .375 No_date    3:00    74.94
01613>        [XIMP=.43:TIMP=.59]
01614>        [LOSS= 2 :CN= 79.0]
01615>        [Pervious      area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01616>        [Impervious    area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
01617>  001:0322---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01618>      ADD HYD            01:CottExt1       3.68      .448 No_date    3:02    54.61
01619>                       + 02:CottExt2       1.65      .184 No_date    3:01    46.76
01620>                       + 03:CottExt5        .38      .036 No_date    3:06    46.04
```

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01621>                     +  04:Pond 100yr   277.80   13.211 No_date     3:29   44.86
01622>                     +  05:CottB          2.49     .375 No_date     3:00   74.94
01623>       [DT= 1.00]  SUM=  06:SWM1 Outle   286.00   13.488 No_date     3:29   45.26
01624>  001:0323---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01625>       CALIB STANDHYD     02:CottA          3.26     .484 No_date     3:00   73.66
01626>         [XIMP=.40:TIMP=.56]
01627>         [LOSS= 2 :CN= 79.0]
01628>         [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  10.:MNP=.240:SCP=    .0]
01629>         [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
01630>  001:0324---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01631>       CALIB NASHYD       03:CottExt6       .42     .048 No_date     3:00   46.04
01632>         [CN= 76.0: N= 3.00]
01633>         [Tp=  .09:DT= 1.00]
01634>  001:0325---------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01635>       ADD HYD            02:CottA          3.26     .484 No_date     3:00   73.66
01636>                     +  03:CottExt6         .42     .048 No_date     3:00   46.04
01637>                     +  06:SWM1 Outle   286.00   13.488 No_date     3:29   45.26
01638>       [DT= 1.00]  SUM=  04:Sunset Out   289.68   13.594 No_date     3:29   45.58
01639>  001:0326-------------------------------------------------------------------------
01640>       FINISH
01641> -------------------------------------------------------------------------------
01642> ********************************************************************************
01643>       WARNINGS / ERRORS / NOTES
01644>       -------------------------
01645>  001:0086 ROUTE PIPE       ->
01646>       *** WARNING: New pipe size used for routing.
01647>  001:0090 ROUTE PIPE       ->
01648>       *** WARNING: New pipe size used for routing.
01649>  001:0095 ROUTE PIPE       ->
01650>       *** WARNING: New pipe size used for routing.
01651>  001:0140 ROUTE PIPE       ->
01652>       *** WARNING: New pipe size used for routing.
01653>  001:0144 ROUTE PIPE       ->
01654>       *** WARNING: New pipe size used for routing.
01655>  001:0149 ROUTE PIPE       ->
01656>       *** WARNING: New pipe size used for routing.
01657>  001:0194 ROUTE PIPE       ->
01658>       *** WARNING: New pipe size used for routing.
01659>  001:0198 ROUTE PIPE       ->
01660>       *** WARNING: New pipe size used for routing.
01661>  001:0203 ROUTE PIPE       ->
01662>       *** WARNING: New pipe size used for routing.
01663>  001:0248 ROUTE PIPE       ->
01664>       *** WARNING: New pipe size used for routing.
01665>  001:0252 ROUTE PIPE       ->
01666>       *** WARNING: New pipe size used for routing.
01667>  001:0257 ROUTE PIPE       ->
01668>       *** WARNING: New pipe size used for routing.
01669>  001:0277 ROUTE PIPE       ->
01670>       *** WARNING: New pipe size used for routing.
01671>  001:0302 ROUTE PIPE       ->
01672>       *** WARNING: New pipe size used for routing.
01673>  001:0306 ROUTE PIPE       ->
01674>       *** WARNING: New pipe size used for routing.
01675>  001:0311 ROUTE PIPE       ->
01676>       *** WARNING: New pipe size used for routing.
01677>    Simulation ended on 2018-08-09      at 15:57:45
01678> ********************************************************************************
01679>
01680>
```

```
00001> T     Metric Units
00002> *#*****************************************************************
00003> *#  Project Name: [Lora Bay Phase 4]                 Project Number: [469-3061]
00004> *#  Date        : August 9, 2018
00005> *#  Modeller    : [B. Ellsworth]
00006> *#  Company     : C.F. Crozier & Associates Inc.
00007> *#  License #   : 3737016
00008> *#*****************************************************************
00009> *#  Filename    : Continuous Model
00010> *#  Continuous Model
00011> *#*****************************************************************
00012> *#*****************************************************************
00013> *#*****************************************************************
00014>
00015> *|-------------------|-----------------------------------------------------|
00016> START                TZERO=[0.0], METOUT=[2],  NSTORM=[0],  NRUN=[0]
00017> *                    (  ) <--storm filename, one per line for NSTORM time
00018> *|-------------------|-----------------------------------------------------|
00019> *#*****************************************************************
00020> *#**********2 year SCS 24HR HSI Storm*****************************
00021> *#*****************************************************************
00022> *|-------------------|-----------------------------------------------------|
00023> MASS STORM           PTOTAL=[45.60](mm), CSDT=[1](min),
00024>                      CURVE_FILENAME=["SCS24HSI.mst"]
00025> *|-------------------|-----------------------------------------------------|
00026> CALIB NASHYD         ID=[1], NHYD=["302"], DT=[1]min, AREA=[29.2] (ha),
00027>                      DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
00028>                      N=[3], TP=[0.42]hrs,
00029>                      RAINFALL=[ ,  ,  ,  ,  ,  ](mm/hr),  END=-1
00030> *|-------------------|-----------------------------------------------------|
00031> ROUTE CHANNEL        IDout=[2], NHYD=["BCreek1"], IDin=[1],
00032>                      RDT=[1](min),
00033>                      CHLGTH=[422](m),  CHSLOPE=[1.3](%),
00034>                                        FPSLOPE=[1.3](%),
00035>                      SECNUM=[1.1],     NSEG=[3]
00036>                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00037>                      ( DISTANCE (m), ELEVATION (m))=[0,3]
00038>                                                    [1.75,1]
00039>                                                    [3.25,1]
00040>                                                    [5,3]
00041> *|-------------------|-----------------------------------------------------|
00042> CALIB NASHYD         ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
00043>                      DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
00044>                      N=[3], TP=[0.59]hrs,
00045>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00046> *|-------------------|-----------------------------------------------------|
00047> ADD HYD              IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
00048> *|-------------------|-----------------------------------------------------|
00049> ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
00050>                      PDIAM=[900](mm), PLNGTH=[162](m),
00051>                      PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
00052>                      RDT=[1](min)
00053> *|-------------------|-----------------------------------------------------|
00054> CALIB NASHYD         ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
00055>                      DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
00056>                      N=[3], TP=[0.58]hrs,
00057>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00058> *|-------------------|-----------------------------------------------------|
00059> ROUTE CHANNEL        IDout=[3], NHYD=["Overland1"], IDin=[2],
00060>                      RDT=[1](min),
00061>                      CHLGTH=[676](m),  CHSLOPE=[2.6](%),
00062>                                        FPSLOPE=[2.6](%),
00063>                      SECNUM=[1.1],     NSEG=[3]
00064>                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00065>                      ( DISTANCE (m), ELEVATION (m))=[0,2]
00066>                                                    [1000,1.7]
00067>                                                    [1001,1.4]
00068>                                                    [1002,1.7]
00069>                                                    [2000,2]
00070> *|-------------------|-----------------------------------------------------|
00071> CALIB NASHYD         ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
00072>                      DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
00073>                      N=[3], TP=[0.53]hrs,
00074>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00075> *|-------------------|-----------------------------------------------------|
00076> ADD HYD              IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
00077> *|-------------------|-----------------------------------------------------|
00078> ROUTE CHANNEL        IDout=[3], NHYD=["BCreek2"], IDin=[2],
00079>                      RDT=[1](min),
00080>                      CHLGTH=[261](m),  CHSLOPE=[2.3](%),
00081>                                        FPSLOPE=[2.3](%),
00082>                      SECNUM=[1.1],     NSEG=[3]
00083>                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00084>                      ( DISTANCE (m), ELEVATION (m))=[0,3]
00085>                                                    [1.75,1]
00086>                                                    [3.25,1]
00087>                                                    [5,3]
00088> *|-------------------|-----------------------------------------------------|
00089> ADD HYD              IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
00090> *|-------------------|-----------------------------------------------------|
00091> ROUTE CHANNEL        IDout=[3], NHYD=["BCreek3"], IDin=[2],
00092>                      RDT=[1](min),
00093>                      CHLGTH=[204](m),  CHSLOPE=[3](%),
00094>                                        FPSLOPE=[3](%),
00095>                      SECNUM=[1.1],     NSEG=[3]
00096>                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00097>                      ( DISTANCE (m), ELEVATION (m))=[0,3]
00098>                                                    [1.75,1]
00099>                                                    [3.25,1]
00100>                                                    [5,3]
00101> *|-------------------|-----------------------------------------------------|
00102> CALIB NASHYD         ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.98](ha),
00103>                      DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
00104>                      N=[3], TP=[0.48]hrs,
00105>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00106> *|-------------------|-----------------------------------------------------|
00107> CALIB NASHYD         ID=[2], NHYD=["201E"], DT=[1]min, AREA=[9.13](ha),
00108>                      DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
00109>                      N=[3], TP=[0.62]hrs,
00110>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00111> *|-------------------|-----------------------------------------------------|
00112> CALIB NASHYD         ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
00113>                      DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
00114>                      N=[3], TP=[0.75]hrs,
00115>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00116> *|-------------------|-----------------------------------------------------|
00117> CALIB STANDHYD       ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
00118>                      XIMP=[0.35], TIMP=[0.5], DWF=[0](cms),  LOSS=[2],
00119>                      SCS curve number CN=[69],
00120>                      Pervious   surfaces: IAper=[5](mm),  SLPP=[2](%),
00121>                                           LGP=[12.5](m),  MNP=[0.24],  SCP=[0](min)
00122>                      Impervious surfaces: IAimp=[2](mm),  SLPI=[0.5](%),
00123>                                           LGI=[326.70](m),  MNI=[0.013],  SCI=[0](m
00124>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00125> *|-------------------|-----------------------------------------------------|
00126> ADD HYD              IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
00127> *|-------------------|-----------------------------------------------------|
00128> ROUTE CHANNEL        IDout=[1], NHYD=["BCreek4"], IDin=[6],
00129>                      RDT=[1](min),
00130>                      CHLGTH=[647](m),  CHSLOPE=[3](%),
00131>                                        FPSLOPE=[3](%),
00132>                      SECNUM=[1.1],     NSEG=[3]
00133>                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
00134>                      ( DISTANCE (m), ELEVATION (m))=[0,3]
00135>                                                    [1.75,1]
00136>                                                    [3.25,1]
00137>                                                    [5,3]
00138> *|-------------------|-----------------------------------------------------|
00139> CALIB NASHYD         ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
00140>                      DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
00141>                      N=[3], TP=[0.72]hrs,
00142>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00143> *|-------------------|-----------------------------------------------------|
00144> ADD HYD              IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
00145> *|-------------------|-----------------------------------------------------|
00146> CALIB NASHYD         ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.9](ha),
00147>                      DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
00148>                      N=[3], TP=[0.23]hrs,
00149>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00150> *|-------------------|-----------------------------------------------------|
00151> ROUTE CHANNEL        IDout=[2], NHYD=["Overland2"], IDin=[1],
00152>                      RDT=[1](min),
00153>                      CHLGTH=[530](m),  CHSLOPE=[2.3](%),
00154>                                        FPSLOPE=[2.3](%),
00155>                      SECNUM=[1.1],     NSEG=[3]
00156>                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00157>                      ( DISTANCE (m), ELEVATION (m))=[0,2]
00158>                                                    [1000,1.7]
00159>                                                    [1001,1.4]
00160>                                                    [1002,1.7]
00161>                                                    [2000,2]
00162> *|-------------------|-----------------------------------------------------|
00163> CALIB NASHYD         ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
00164>                      DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
00165>                      N=[3], TP=[0.47]hrs,
00166>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00167>
00168> *|-------------------|-----------------------------------------------------|
00169> ADD HYD              IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
00170> *|-------------------|-----------------------------------------------------|
00171> ROUTE CHANNEL        IDout=[5], NHYD=["Overland3"], IDin=[5],
00172>                      RDT=[1](min),
00173>                      CHLGTH=[500](m),  CHSLOPE=[4.0](%),
00174>                                        FPSLOPE=[4.0](%),
00175>                      SECNUM=[1.1],     NSEG=[3]
00176>                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00177>                      ( DISTANCE (m), ELEVATION (m))=[0,2]
00178>                                                    [1000,1.7]
00179>                                                    [1001,1.4]
00180>                                                    [1002,1.7]
00181>                                                    [2000,2]
00182> *|-------------------|-----------------------------------------------------|
00183> CALIB NASHYD         ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
00184>                      DWF=[0](cms),  CN/C=[74.8], IA=[9.83](mm),
00185>                      N=[3], TP=[0.45]hrs,
00186>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00187> *|-------------------|-----------------------------------------------------|
00188> ROUTE CHANNEL        IDout=[2], NHYD=["Overland4"], IDin=[1],
00189>                      RDT=[1](min),
00190>                      CHLGTH=[656](m),  CHSLOPE=[2.4](%),
00191>                                        FPSLOPE=[2.4](%),
00192>                      SECNUM=[1.1],     NSEG=[3]
00193>                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
00194>                      ( DISTANCE (m), ELEVATION (m))=[0,2]
00195>                                                    [1000,1.7]
00196>                                                    [1001,1.4]
00197>                                                    [1002,1.7]
00198>                                                    [2000,2]
00199> *|-------------------|-----------------------------------------------------|
00200> CALIB NASHYD         ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
00201>                      DWF=[0](cms),  CN/C=[75.5], IA=[8.35](mm),
00202>                      N=[3], TP=[0.54]hrs,
00203>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00204> *|-------------------|-----------------------------------------------------|
00205> ADD HYD              IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
00206> *|-------------------|-----------------------------------------------------|
00207> ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
00208>                      PDIAM=[525](mm), PLNGTH=[410](m),
00209>                      PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
00210>                      RDT=[1](min)
00211> *|-------------------|-----------------------------------------------------|
00212> CALIB NASHYD         ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
00213>                      DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
00214>                      N=[3], TP=[0.43]hrs,
00215>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00216> *|-------------------|-----------------------------------------------------|
00217> CALIB STANDHYD       ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.88](ha),
00218>                      XIMP=[0.35], TIMP=[0.5], DWF=[0](cms),  LOSS=[2],
00219>                      SCS curve number CN=[79],
00220>                      Pervious   surfaces: IAper=[5](mm),  SLPP=[2](%),
00221>                                           LGP=[12.5](m),  MNP=[0.24],  SCP=[0](min)
00222>                      Impervious surfaces: IAimp=[2](mm),  SLPI=[0.5](%),
00223>                                           LGI=[229.20](m),  MNI=[0.013],  SCI=[0](m
00224>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00225> *|-------------------|-----------------------------------------------------|
00226> ADD HYD              IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
00227> *|-------------------|-----------------------------------------------------|
00228> ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
00229>                      PDIAM=[750](mm), PLNGTH=[450](m),
00230>                      PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
00231>                      RDT=[1](min)
00232> *|-------------------|-----------------------------------------------------|
00233> CALIB NASHYD         ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
00234>                      DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
00235>                      N=[3], TP=[0.47]hrs,
00236>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00237> *|-------------------|-----------------------------------------------------|
00238> ROUTE PIPE           PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
00239>                      PDIAM=[525](mm), PLNGTH=[435](m),
00240>                      PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
00241>                      RDT=[1](min)
00242> *|-------------------|-----------------------------------------------------|
00243> CALIB STANDHYD       ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
00244>                      XIMP=[0.35], TIMP=[0.5], DWF=[0](cms),  LOSS=[2],
00245>                      SCS curve number CN=[79],
00246>                      Pervious   surfaces: IAper=[5](mm),  SLPP=[2](%),
00247>                                           LGP=[12.5](m),  MNP=[0.24],  SCP=[0](min)
00248>                      Impervious surfaces: IAimp=[2](mm),  SLPI=[0.5](%),
00249>                                           LGI=[299.93](m),  MNI=[0.013],  SCI=[0](m
00250>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00251> *|-------------------|-----------------------------------------------------|
00252> ADD HYD              IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
00253> *|-------------------|-----------------------------------------------------|
00254> ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
00255>                      PDIAM=[750](mm), PLNGTH=[305](m),
00256>                      PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
00257>                      RDT=[1](min)
00258> *|-------------------|-----------------------------------------------------|
00259> ADD HYD              IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
00260> *|-------------------|-----------------------------------------------------|
00261> CALIB NASHYD         ID=[1], NHYD=["SWMF"], DT=[1](min), AREA=[5.4](ha),
00262>                      DWF=[0](cms),  CN/C=[91.7], IA=[2.39](mm),
00263>                      N=[3], TP=[0.05]hrs,
00264>                      RAINFALL=[ ,  ,  ,  ,  ](mm/hr),  END=-1
00265> *|-------------------|-----------------------------------------------------|
00266> ADD HYD              IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
00267> *|-------------------|-----------------------------------------------------|
00268> ROUTE RESERVOIR      IDout=[1],  NHYD=["SWM1"],  IDin=[3],
00269>                      RDT=[1](min),
00270>                           TABLE OF ( OUTFLOW-STORAGE ) Values
```

```
                                              (cms) - (ha-m)
                                            [  0.0 ,   0.0 ]
                                            [  0.0097  ,   0.1406 ]
                                            [  0.0352  ,   0.3212 ]
                                            [  0.0764  ,   0.5018 ]
                                            [  0.0986  ,   0.6823 ]
                                            [  0.1547  ,   0.8629 ]
                                            [  0.3283  ,   1.0435 ]
                                            [  0.5673  ,   1.2430 ]
                                            [  0.8560  ,   1.4426 ]
                                            [  1.1868  ,   1.4421 ]
                                            [  1.5548  ,   1.9417 ]
                                            [  1.9562  ,   2.0412 ]
                                            [  2.3891  ,   2.2712 ]
                                            [  2.8505  ,   2.5013 ]
                                            [  3.3385  ,   2.7313 ]
                                            [  3.8521  ,   2.9614 ]
                                            [  4.3895  ,   3.1914 ]
                                            [  5.9341  ,   3.3362 ]
                                            [  -1  ,  -1  ]  (max twenty pts)
                                IDovf=[2], NHYDovf=["Spillflow"]
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Pond 2yr"], IDs to add=[1+2]
*|-----------------|-------------------------------------------------------|
SAVE HYD             ID=[4],   # OF PCYCLES=[1], ICASEsh=[-1]
                     HYD_FILENAME=["Pond2yr"]
                     HYD_COMMENT=["Pond2yr"]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
                     DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
                     N=[3], TP=[0.21]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.45](ha),
                     DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                     N=[3], TP=[0.15]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                     DWF=[0](cms),  CN/C=[76], IA=[9](mm),
                     N=[3], TP=[0.32]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
CALIB STANDHYD       ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                     XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[79],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                          LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*|-----------------|-------------------------------------------------------|
CALIB STANDHYD       ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                     XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[79],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                          LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                     DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                     N=[3], TP=[0.09]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*|-----------------|-------------------------------------------------------|
*#*************************************************************************
*#*****************************5 year SCS 24HR HII Storm********************
*#*************************************************************************
*|-----------------|-------------------------------------------------------|
MASS STORM           PTOTAL=[62.4](mm), CSDT=[1](min),
                     CURVE_FILENAME=["SCS24HII.mst"]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                     DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                     N=[3], TP=[0.42]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["BCreek1"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                         FPSLOPE=[1.3](%),
                     SECNUM=[1.1],       NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                     DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                     N=[3], TP=[0.59]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*|-----------------|-------------------------------------------------------|
ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                     PDIAM=[900](mm), PLNGTH=[162](m),
                     PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                     RDT=[1](min)
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                     DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                     N=[3], TP=[0.58]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["Overland1"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                         FPSLOPE=[2.6](%),
                     SECNUM=[1.1],       NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                     DWF=[0](cms),  CN/C=[71], IA=[9.99](mm),
                     N=[3], TP=[0.53]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*|-----------------|-------------------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["BCreek2"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[261](m),  CHSLOPE=[2.3](%),
                                         FPSLOPE=[2.3](%),
                     SECNUM=[1.1],       NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*|-----------------|-------------------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["BCreek3"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[204](m),  CHSLOPE=[3](%),
                                         FPSLOPE=[3](%),
                     SECNUM=[1.1],       NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                     DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
                     N=[3], TP=[0.48]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                     DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                     N=[3], TP=[0.62]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                     DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
                     N=[3], TP=[0.75]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
CALIB STANDHYD       ID=[5], NHYD=["202B"], DT=[1](min), AREA=[15.01](ha),
                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[49],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                          LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*|-----------------|-------------------------------------------------------|
ROUTE CHANNEL        IDout=[1], NHYD=["BCreek4"], IDin=[6],
                     RDT=[1](min),
                     CHLGTH=[647](m),  CHSLOPE=[3](%),
                                         FPSLOPE=[3](%),
                     SECNUM=[1.1],       NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                     DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
                     N=[3], TP=[0.72]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                     DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
                     N=[3], TP=[0.23]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["Overland2"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                         FPSLOPE=[2.3](%),
                     SECNUM=[1.1],       NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                     DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
                     N=[3], TP=[0.47]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1

*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*|-----------------|-------------------------------------------------------|
ROUTE CHANNEL        IDout=[8], NHYD=["Overland3"], IDin=[5],
                     RDT=[1](min),
                     CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                         FPSLOPE=[4.0](%),
                     SECNUM=[1.1],       NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                     DWF=[0](cms),  CN/C=[74.8], IA=[9.83](mm),
                     N=[3], TP=[0.45]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["Overland4"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[656](m),  CHSLOPE=[2.4](%),
                                         FPSLOPE=[2.4](%),
                     SECNUM=[1.1],       NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
                     DWF=[0](cms),  CN/C=[75.5], IA=[9.35](mm),
                     N=[3], TP=[0.54]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
ADD HYD              IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
*|-----------------|-------------------------------------------------------|
ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
                     PDIAM=[525](mm), PLNGTH=[410](m),
                     PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
                     RDT=[1](min)
*|-----------------|-------------------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
                     DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
                     N=[3], TP=[0.43]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-----------------|-------------------------------------------------------|
CALIB STANDHYD       ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.38](ha),
                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
```

```
                      SCS curve number CN=[79],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                           LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
*|--------------------|---------------------------------------------------------|
ROUTE PIPE            PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                      PDIAM=[750](mm), PLNGTH=[450](m),
                      PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                      RDT=[1](min)
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                      DWF=[0](cms),  CN/C=[43.9], IA=[6.5](mm),
                      N=[3], TP=[0.47]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ROUTE PIPE            PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                      PDIAM=[525](mm), PLNGTH=[435](m),
                      PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                      RDT=[1](min)
*|--------------------|---------------------------------------------------------|
CALIB STANDHYD        ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                      XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[79],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                           LGI=[289.93](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*|--------------------|---------------------------------------------------------|
ROUTE PIPE            PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                      PDIAM=[750](mm), PLNGTH=[305](m),
                      PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                      RDT=[1](min)
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                      DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                      N=[3], TP=[0.05]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*|--------------------|---------------------------------------------------------|
ROUTE RESERVOIR       IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                      RDT=[1](min),
                            TABLE of ( OUTFLOW-STORAGE ) values
                                      (cms) - (ha-m)
                                    [ 0.0 ,  0.0 ]
                                    [ 0.0097  ,  0.1406 ]
                                    [ 0.0352  ,  0.3212 ]
                                    [ 0.0764  ,  0.5018 ]
                                    [ 0.0986  ,  0.6823 ]
                                    [ 0.1547  ,  0.8629 ]
                                    [ 0.3283  ,  1.0435 ]
                                    [ 0.5673  ,  1.2430 ]
                                    [ 0.8560  ,  1.4426 ]
                                    [ 1.1968  ,  1.6421 ]
                                    [ 1.5548  ,  1.8417 ]
                                    [ 1.9562  ,  2.0412 ]
                                    [ 2.3891  ,  2.2712 ]
                                    [ 2.8505  ,  2.5013 ]
                                    [ 3.3385  ,  2.7313 ]
                                    [ 3.8521  ,  2.9614 ]
                                    [ 4.3895  ,  3.1914 ]
                                    [ 4.8341  ,  3.8362 ]
                                    [ -1 ,  -1 ]  (max twenty pts)
                            IDovf=[2], NHYDovf=["Spillflow"]
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[4], NHYD=["Pond 5yr"], IDs to add=[1+2]
*|--------------------|---------------------------------------------------------|
SAVE HYD              ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                      HYD_FILENAME=["Pond5yr"]
                      HYD_COMMENT=["Pond5yr"]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
                      DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
                      N=[3], TP=[0.21]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                      DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                      N=[3], TP=[0.15]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                      DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                      N=[3], TP=[0.32]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
CALIB STANDHYD        ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                      XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[79],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                           LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*|--------------------|---------------------------------------------------------|
CALIB STANDHYD        ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                      XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[79],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                           LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                      DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                      N=[3], TP=[0.09]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*|--------------------|---------------------------------------------------------|
*#*****************************************************************************
*#*************************10 year SCS 24HR HI1 Storm****************************
*#*****************************************************************************
*|--------------------|---------------------------------------------------------|
MASS STORM            PTOTAL=[72.3](mm), CSDT=[1](min),
                      CURVE_FILENAME=["SCS24HI1.msc"]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["302"], DT=[1]min, AREA=[23.2](ha),
                      DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                      N=[3], TP=[0.12]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ROUTE CHANNEL         IDout=[2], NHYD=["BCreek1"], IDin=[1],
                      RDT=[1](min),
                      CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                        FPSLOPE=[1.3](%),
                      SECNUM=[1.1],      NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                      ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                     [1.75,1]
                                                     [3.25,1]
                                                     [5,3]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                      DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                      N=[3], TP=[0.59]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*|--------------------|---------------------------------------------------------|
ROUTE PIPE            PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                      PDIAM=[900](mm), PLNGTH=[162](m),
                      PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                      RDT=[1](min)
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                      DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                      N=[3], TP=[0.58]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ROUTE CHANNEL         IDout=[3], NHYD=["Overland1"], IDin=[2],
                      RDT=[1](min),
                      CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                        FPSLOPE=[2.6](%),
                      SECNUM=[1.1],      NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                      ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                     [1000,1.7]
                                                     [1001,1.4]
                                                     [1002,1.7]
                                                     [2000,2]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                      DWF=[0](cms),  CN/C=[71], IA=[9.89](mm),
                      N=[3], TP=[0.53]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*|--------------------|---------------------------------------------------------|
ROUTE CHANNEL         IDout=[3], NHYD=["BCreek2"], IDin=[2],
                      RDT=[1](min),
                      CHLGTH=[261](m),  CHSLOPE=[2.3](%),
                                        FPSLOPE=[2.3](%),
                      SECNUM=[1.1],      NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                      ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                     [1.75,1]
                                                     [3.25,1]
                                                     [5,3]
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*|--------------------|---------------------------------------------------------|
ROUTE CHANNEL         IDout=[3], NHYD=["BCreek3"], IDin=[2],
                      RDT=[1](min),
                      CHLGTH=[204](m),  CHSLOPE=[3](%),
                                        FPSLOPE=[3](%),
                      SECNUM=[1.1],      NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                      ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                     [1.75,1]
                                                     [3.25,1]
                                                     [5,3]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                      DWF=[0](cms),  CN/C=[46.2], IA=[7.03](mm),
                      N=[3], TP=[0.48]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13](ha),
                      DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                      N=[3], TP=[0.62]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                      DWF=[0](cms),  CN/C=[81.9], IA=[4.55](mm),
                      N=[3], TP=[0.75]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
CALIB STANDHYD        ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                      XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                      SCS curve number CN=[49],
                      Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                           LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                      Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                           LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                      RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*|--------------------|---------------------------------------------------------|
ROUTE CHANNEL         IDout=[1], NHYD=["BCreek4"], IDin=[6],
                      RDT=[1](min),
                      CHLGTH=[647](m),  CHSLOPE=[3](%),
                                        FPSLOPE=[3](%),
                      SECNUM=[1.1],      NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                      ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                     [1.75,1]
                                                     [3.25,1]
                                                     [5,3]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                      DWF=[0](cms),  CN/C=[79.4], IA=[5.5](mm),
                      N=[3], TP=[0.72]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ADD HYD               IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                      DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
                      N=[3], TP=[0.23]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|--------------------|---------------------------------------------------------|
ROUTE CHANNEL         IDout=[2], NHYD=["Overland2"], IDin=[1],
                      RDT=[1](min),
                      CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                        FPSLOPE=[2.3](%),
                      SECNUM=[1.1],      NSEG=[3]
                      ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                      ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                     [1000,1.7]
                                                     [1001,1.4]
                                                     [1002,1.7]
                                                     [2000,2]
*|--------------------|---------------------------------------------------------|
CALIB NASHYD          ID=[4], NHYD=["301A"], DT=[1]min, AREA=[23.2](ha),
                      DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm)
                      N=[3], TP=[0.17]hrs,
                      RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
```

```
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*|-------------------|------------------------------------------------------------|
ROUTE CHANNEL          IDout=[3], NHYD=["Overland3"], IDin=[5],
                       RDT=[1](min),
                       CHLGTH=[500](m),   CHSLOPE=[4.0](%),
                                          FPSLOPE=[4.0](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                       ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                      [1000,1.7]
                                                      [1001,1.4]
                                                      [1002,1.7]
                                                      [2000,2]
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                       DWF=[0](cms),   CN/C=[74.3], IA=[8.33](mm),
                       N=[3], TP=[0.45]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ROUTE CHANNEL          IDout=[2], NHYD=["Overland4"], IDin=[1],
                       RDT=[1](min),
                       CHLGTH=[656](m),   CHSLOPE=[2.4](%),
                                          FPSLOPE=[2.4](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                       ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                      [1000,1.7]
                                                      [1001,1.4]
                                                      [1002,1.7]
                                                      [2000,2]
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
                       DWF=[0](cms),   CN/C=[75.5], IA=[8.35](mm),
                       N=[3], TP=[0.54]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
*|-------------------|------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
                       PDIAM=[525](mm), PLNGTH=[410](m),
                       PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
                       RDT=[1](min)
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
                       DWF=[0](cms),   CN/C=[73.1], IA=[7.27](mm),
                       N=[3], TP=[0.43]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
CALIB STANDHYD         ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.88](ha),
                       XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[79],
                       Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                            LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                       Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                            LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                       RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
*|-------------------|------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                       PDIAM=[750](mm), PLNGTH=[450](m),
                       PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                       RDT=[1](min)
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                       DWF=[0](cms),   CN/C=[43.9], IA=[6.5](mm),
                       N=[3], TP=[0.47]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                       PDIAM=[525](mm), PLNGTH=[435](m),
                       PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                       RDT=[1](min)
*|-------------------|------------------------------------------------------------|
CALIB STANDHYD         ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                       XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[79],
                       Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                            LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                       Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                            LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                       RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*|-------------------|------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                       PDIAM=[750](mm), PLNGTH=[305](m),
                       PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                       RDT=[1](min)
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.8](ha),
                       DWF=[0](cms),   CN/C=[91.7], IA=[2.39](mm),
                       N=[3], TP=[0.05]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*|-------------------|------------------------------------------------------------|
ROUTE RESERVOIR        IDout=[1],   NHYD=["SWM1"],  IDin=[3],
                       RDT=[1](min),
                              TABLE of ( OUTFLOW-STORAGE ) values
                                        (cms) - (ha-m)
                                      [  0.0 ,  0.0  ]
                                      [  0.0097  ,  0.1406 ]
                                      [  0.0352  ,  0.3212 ]
                                      [  0.0764  ,  0.5013 ]
                                      [  0.0986  ,  0.6923 ]
                                      [  0.1547  ,  0.8629 ]
                                      [  0.3283  ,  1.0435 ]
                                      [  0.5673  ,  1.2430 ]
                                      [  0.8560  ,  1.4426 ]
                                      [  1.1868  ,  1.6421 ]
                                      [  1.5548  ,  1.8417 ]
                                      [  1.9562  ,  2.0412 ]
                                      [  2.3891  ,  2.2712 ]
                                      [  2.8505  ,  2.5013 ]
                                      [  3.3395  ,  2.7313 ]
                                      [  3.8521  ,  2.9614 ]
                                      [  4.3895  ,  3.1914 ]
                                      [  5.9341  ,  3.3362 ]
                                      [  -1  ,  -1  ]  (max twenty pts)
                              IDovf=[2], NHYDovf=["Spillflow"]
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[4], NHYD=["Pond 10yr"], IDs to add=[1+3]
*|-------------------|------------------------------------------------------------|
SAVE HYD               ID=[4],    # OF PCYCLES=[1],   ICASEsh=[-1]
                       HYD_FILENAME=["Pond10yr"]
                       HYD_COMMENT=["Pond10yr"]
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
                       DWF=[0](cms),   CN/C=[81.3], IA=[5.36](mm),
                       N=[3], TP=[0.21]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                       DWF=[0](cms),   CN/C=[76.2], IA=[7.39](mm),
                       N=[3], TP=[0.15]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                       DWF=[0](cms),   CN/C=[76], IA=[8](mm),
                       N=[3], TP=[0.32]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
CALIB STANDHYD         ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                       XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[79],
                       Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                            LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                       Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                            LGI=[129.84](m), MNI=[0.013], SCI=[0](m
                       RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*|-------------------|------------------------------------------------------------|
CALIB STANDHYD         ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                       XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                       SCS curve number CN=[79],
                       Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                            LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                       Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                            LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                       RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                       DWF=[0](cms),   CN/C=[76], IA=[8](mm),
                       N=[3], TP=[0.09]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+4]
*|-------------------|------------------------------------------------------------|
**************************************************************************************
*****************************25 year SCS 24HR HII Storm********************************
**************************************************************************************
*|-------------------|------------------------------------------------------------|
MASS STORM             PTOTAL=[86.4](mm), CSDT=[1](min),
                       CURVE_FILENAME=["SCS24HII.mst"]
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                       DWF=[0](cms),   CN/C=[74.2], IA=[9.59](mm),
                       N=[3], TP=[0.42]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ROUTE CHANNEL          IDout=[2], NHYD=["BCreek1"], IDin=[1],
                       RDT=[1](min),
                       CHLGTH=[422](m),   CHSLOPE=[1.3](%),
                                          FPSLOPE=[1.3](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                       ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                      [1.75,1]
                                                      [3.25,1]
                                                      [5,3]
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                       DWF=[0](cms),   CN/C=[65.7], IA=[9.61](mm),
                       N=[3], TP=[0.59]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*|-------------------|------------------------------------------------------------|
ROUTE PIPE             PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                       PDIAM=[900](mm), PLNGTH=[162](m),
                       PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                       RDT=[1](min)
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.8](ha),
                       DWF=[0](cms),   CN/C=[74], IA=[9.58](mm),
                       N=[3], TP=[0.58]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ROUTE CHANNEL          IDout=[3], NHYD=["Overland1"], IDin=[2],
                       RDT=[1](min),
                       CHLGTH=[676](m),   CHSLOPE=[2.6](%),
                                          FPSLOPE=[2.6](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                       ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                      [1000,1.7]
                                                      [1001,1.4]
                                                      [1002,1.7]
                                                      [2000,2]
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                       DWF=[0](cms),   CN/C=[71], IA=[9.99](mm),
                       N=[3], TP=[0.53]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*|-------------------|------------------------------------------------------------|
ROUTE CHANNEL          IDout=[3], NHYD=["BCreek2"], IDin=[2],
                       RDT=[1](min),
                       CHLGTH=[261](m),   CHSLOPE=[2.3](%),
                                          FPSLOPE=[2.3](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                       ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                      [1.75,1]
                                                      [3.25,1]
                                                      [5,3]
*|-------------------|------------------------------------------------------------|
ADD HYD                IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*|-------------------|------------------------------------------------------------|
ROUTE CHANNEL          IDout=[3], NHYD=["BCreek3"], IDin=[2],
                       RDT=[1](min),
                       CHLGTH=[204](m),   CHSLOPE=[3](%),
                                          FPSLOPE=[3](%),
                       SECNUM=[1.1],      NSEG=[3]
                       ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                       ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                      [1.75,1]
                                                      [3.25,1]
                                                      [5,3]
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                       DWF=[0](cms),   CN/C=[46.2], IA=[7.03](mm),
                       N=[3], TP=[0.48]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[2], NHYD=["201E"], DT=[1]min, AREA=[9.13](ha),
                       DWF=[0](cms),   CN/C=[67.6], IA=[5.19](mm),
                       N=[3], TP=[0.62]hrs,
                       RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|-------------------|------------------------------------------------------------|
CALIB NASHYD           ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                       DWF=[0](cms),   CN/C=[91.9], IA=[1.55](mm),
                       N=[3], TP=[0.75]hrs,
```

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                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[49],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ , , , , ](mm/hr) , END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*|------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["BCreek4"], IDin=[6],
                    RDT=[1](min),
                    CHLGTH=[647](m),  CHSLOPE=[3](%),
                                      FPSLOPE=[3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                    DWF=[0](cms),  CN/C=[78.4], IA=[5.5](mm),
                    N=[3], TP=[0.72]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                    DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
                    N=[3], TP=[0.23]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland2"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                      FPSLOPE=[2.3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                    DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1

*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*|------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[9], NHYD=["Overland3"], IDin=[5],
                    RDT=[1](min),
                    CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                      FPSLOPE=[4.0](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                    DWF=[0](cms),  CN/C=[74.9], IA=[8.33](mm),
                    N=[3], TP=[0.45]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland4"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[656](m),  CHSLOPE=[2.4](%),
                                      FPSLOPE=[2.4](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
                    DWF=[0](cms),  CN/C=[75.5], IA=[8.35](mm),
                    N=[3], TP=[0.54]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
*|------------------|------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
                    PDIAM=[525](mm), PLNGTH=[410](m),
                    PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
                    RDT=[1](min)
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
                    DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
                    N=[3], TP=[0.43]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.98](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ , , , , ](mm/hr) , END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
*|------------------|------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[450](m),
                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                    RDT=[1](min)
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                    DWF=[0](cms),  CN/C=[43.9], IA=[6.51](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                    PDIAM=[525](mm), PLNGTH=[135](m),
                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                    RDT=[1](min)
*|------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[289.83](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ , , , , ](mm/hr) , END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*|------------------|------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[305](m),
                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                    RDT=[1](min)
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.9](ha),
                    DWF=[0](cms),  CN/C=[91.7], IA=[2.99](mm),
                    N=[3], TP=[0.05]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*|------------------|------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[1],   NHYD=["SWM1"],   IDin=[3],
                    RDT=[1](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                    (cms) - (ha-m)
                                  [  0.0 ,  0.0  ]
                                  [  0.0097   ,   0.1406  ]
                                  [  0.0352   ,   0.3212  ]
                                  [  0.0764   ,   0.5018  ]
                                  [  0.0986   ,   0.6823  ]
                                  [  0.1547   ,   0.9629  ]
                                  [  0.3283   ,   1.0435  ]
                                  [  0.5673   ,   1.2430  ]
                                  [  0.8560   ,   1.4426  ]
                                  [  1.1868   ,   1.6421  ]
                                  [  1.5548   ,   1.8417  ]
                                  [  1.9562   ,   2.0412  ]
                                  [  2.3891   ,   2.2712  ]
                                  [  2.8505   ,   2.5013  ]
                                  [  3.3385   ,   2.7313  ]
                                  [  3.8521   ,   2.9614  ]
                                  [  4.3895   ,   3.1914  ]
                                  [  5.8341   ,   3.3362  ]
                                  [   -1  ,  -1   ]  (max twenty pts)
                         IDovf=[2], NHYDovf=["Spillflow"]
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Pond 25yr"], IDs to add=[1+2]
*|------------------|------------------------------------------------------------|
SAVE HYD            ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                    HYD_FILENAME=["Pond25yr"]
                    HYD_COMMENT=["Pond25yr"]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
                    DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
                    N=[3], TP=[0.21]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                    DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                    N=[3], TP=[0.15]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                    N=[3], TP=[0.32]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                    XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[128.84](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ , , , , ](mm/hr) , END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*|------------------|------------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                    XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                         LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ , , , , ](mm/hr) , END=-1
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                    DWF=[0](cms),  CN/C=[76], IA=[8](mm),
                    N=[3], TP=[0.09]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*|------------------|------------------------------------------------------------|
*#**************************************************************************
*#*************************50 year SCS 24HR HII Storm************************
*#**************************************************************************
*|------------------|------------------------------------------------------------|
MASS STORM          PTOTAL=[96.0](mm), CSDT=[1](min),
                    CURVE_FILENAME=["SCS24HII.mst"]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["302"], DT=[1]min, AREA=[29.2](ha),
                    DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm)
                    N=[3], TP=[0.42]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["BCreek1"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                      FPSLOPE=[1.3](%),
                    SECNUM=[1.1],     NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                    DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                    N=[3], TP=[0.59]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*|------------------|------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                    PDIAM=[900](mm), PLNGTH=[162](m),
                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                    RDT=[1](min)
*|------------------|------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.9](ha),
                    DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                    N=[3], TP=[0.59]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|------------------|------------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["Overland1"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                      FPSLOPE=[2.6](%),
```

```
                    SECNUM=[1,1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m) =[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77]{ha},
                    DWF=[0]{cms},  CN/C=[71], IA=[9.89]{mm},
                    N=[3], TP=[0.53]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add2"], IDs to add=[3-4]
*-------------------|-----------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek2"], IDin=[2],
                    RDT=[1]{min},
                    CHLGTH=[261]{m},  CHSLOPE=[2.3]{%},
                                      FPSLOPE=[2.3]{%},
                    SECNUM=[1,1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m)=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*-------------------|-----------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*-------------------|-----------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek3"], IDin=[2],
                    RDT=[1]{min},
                    CHLGTH=[204]{m},  CHSLOPE=[3]{%},
                                      FPSLOPE=[3]{%},
                    SECNUM=[1,1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m)=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.38]{ha},
                    DWF=[0]{cms},  CN/C=[46.2], IA=[7.93]{mm},
                    N=[3], TP=[0.48]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201E"], DT=[1]min, AREA=[8.13]{ha},
                    DWF=[0]{cms},  CN/C=[67.4], IA=[5.19]{mm},
                    N=[3], TP=[0.62]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08]{ha},
                    DWF=[0]{cms},  CN/C=[81.9], IA=[4.55]{mm},
                    N=[3], TP=[0.75]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202B"], DT=[1]{min}, AREA=[16.01]{ha},
                    XIMP=[0.35], TIMP=[0.5], DWF=[0]{cms}, LOSS=[2],
                    SCS curve number CN=[49],
                    Pervious   surfaces: IAper=[5]{mm}, SLPP=[2]{%},
                                         LGP=[12.5]{m}, MNP=[0.24], SCP=[0]{min}
                    Impervious surfaces: IAimp=[2]{mm}, SLPI=[0.5]{%},
                                         LGI=[326.70]{m}, MNI=[0.013], SCI=[0]{m
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*-------------------|-----------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["BCreek4"], IDin=[6],
                    RDT=[1]{min},
                    CHLGTH=[647]{m},  CHSLOPE=[3]{%},
                                      FPSLOPE=[3]{%},
                    SECNUM=[1,1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m)=[0,3]
                                                  [1.75,1]
                                                  [3.25,1]
                                                  [5,3]
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38]{ha},
                    DWF=[0]{cms},  CN/C=[78.4], IA=[5.5]{mm},
                    N=[3], TP=[0.72]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6]{ha},
                    DWF=[0]{cms},  CN/C=[73.6], IA=[9.74]{mm},
                    N=[3], TP=[0.23]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland2"], IDin=[1],
                    RDT=[1]{min},
                    CHLGTH=[550]{m},  CHSLOPE=[2.3]{%},
                                      FPSLOPE=[2.3]{%},
                    SECNUM=[1,1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m)=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2]{ha},
                    DWF=[0]{cms},  CN/C=[73.9], IA=[9.53]{mm},
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*-------------------|-----------------------------------------------------------|
ROUTE CHANNEL       IDout=[8], NHYD=["Overland3"], IDin=[5],
                    RDT=[1]{min},
                    CHLGTH=[500]{m},  CHSLOPE=[4.0]{%},
                                      FPSLOPE=[4.0]{%},
                    SECNUM=[1,1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m)=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.41]{ha},
                    DWF=[0]{cms},  CN/C=[74.3], IA=[9.33]{mm},
                    N=[3], TP=[0.45]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland4"], IDin=[1],
                    RDT=[1]{min},
                    CHLGTH=[656]{m},  CHSLOPE=[3.4]{%},
                                      FPSLOPE=[2.4]{%},
                    SECNUM=[1,1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m)=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m)=[0,2]
                                                  [1000,1.7]
                                                  [1001,1.4]
                                                  [1002,1.7]
                                                  [2000,2]
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["Cott1"], DT=[1]min, AREA=[3.98]{ha},
                    DWF=[0]{cms},  CN/C=[91.3], IA=[5.96]{mm},
                    N=[3], TP=[0.21]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["Cott2"], DT=[1]min, AREA=[1.65]{ha},
                    DWF=[0]{cms},  CN/C=[76.2], IA=[7.38]{mm},
                    N=[3], TP=[0.16]hrs,
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["Cott3"], DT=[1]min, AREA=[2.49]{ha},
                    XIMP=[0.43], TIMP=[0.59], DWF=[0]{cms}, LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5]{mm}, SLPP=[2]{%},
                                         LGP=[12.5]{m}, MNP=[0.24], SCP=[0]{min}
                    Impervious surfaces: IAimp=[2]{mm}, SLPI=[0.5]{%},
                                         LGI=[228.20]{m}, MNI=[0.013], SCI=[0]{m
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
*-------------------|-----------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["SWMM Outlet Junction"], IDs to add=[1-2+3+
*-------------------|-----------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["CottA"], DT=[1]{min}, AREA=[3.26]{ha},
                    XIMP=[0.40], TIMP=[0.56], DWF=[0]{cms}, LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5]{mm}, SLPP=[2]{%},
                                         LGP=[12.5]{m}, MNP=[0.24], SCP=[0]{min}
                    Impervious surfaces: IAimp=[2.0]{mm}, SLPI=[0.5]{%},
                                         LGI=[147.42]{m}, MNI=[0.013], SCI=[0]{m
                    RAINFALL=[ ,  ,  ,  ,  ]{mm/hr},  END=-1
```

```
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                    DWF=[0](cms), CN/C=[76], IA=[9](mm),
                    N=[3], TP=[0.09]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*|-------------------|----------------------------------------------------------------|
*#*******************************************************************************
*#**********************100 year SCS 24HR HII Storm*******************************
*#*******************************************************************************
*|-------------------|----------------------------------------------------------------|
MASS STORM          PTOTAL=[108.0](mm), CSDT=[1](min),
                    CURVE_FILENAME=["SCS24HII.mst"]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                    DWF=[0](cms), CN/C=[74.2], IA=[9.59](mm),
                    N=[3], TP=[0.42]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["BCreek1"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                      FPSLOPE=[1.3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                   [1.75,1]
                                                   [3.25,1]
                                                   [5,3]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                    DWF=[0](cms), CN/C=[65.7], IA=[9.61](mm),
                    N=[3], TP=[0.59]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*|-------------------|----------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                    PDIAM=[900](mm), PLNGTH=[162](m),
                    PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                    RDT=[1](min)
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.3](ha),
                    DWF=[0](cms), CN/C=[74], IA=[9.58](mm),
                    N=[3], TP=[0.58]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["Overland1"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                      FPSLOPE=[2.6](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                   [1000,1.7]
                                                   [1001,1.4]
                                                   [1002,1.7]
                                                   [2000,2]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                    DWF=[0](cms), CN/C=[71], IA=[9.89](mm),
                    N=[3], TP=[0.53]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*|-------------------|----------------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek2"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[261](m),  CHSLOPE=[2.3](%),
                                      FPSLOPE=[2.3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                   [1.75,1]
                                                   [3.25,1]
                                                   [5,3]
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*|-------------------|----------------------------------------------------------------|
ROUTE CHANNEL       IDout=[3], NHYD=["BCreek3"], IDin=[2],
                    RDT=[1](min),
                    CHLGTH=[204](m),  CHSLOPE=[3](%),
                                      FPSLOPE=[3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                   [1.75,1]
                                                   [3.25,1]
                                                   [5,3]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                    DWF=[0](cms), CN/C=[46.2], IA=[7.03](mm),
                    N=[3], TP=[0.48]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201E"], DT=[1]min, AREA=[9.13](ha),
                    DWF=[0](cms), CN/C=[67.6], IA=[5.19](mm),
                    N=[3], TP=[0.62]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                    DWF=[0](cms), CN/C=[91.9], IA=[4.55](mm),
                    N=[3], TP=[0.75]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ , , , , ](mm/hr) , END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*|-------------------|----------------------------------------------------------------|
ROUTE CHANNEL       IDout=[1], NHYD=["BCreek4"], IDin=[6],
                    RDT=[1](min),
                    CHLGTH=[647](m),  CHSLOPE=[3](%),
                                      FPSLOPE=[3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                    ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                   [1.75,1]
                                                   [3.25,1]
                                                   [5,3]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                    DWF=[0](cms), CN/C=[78.4], IA=[5.5](mm),
                    N=[3], TP=[0.72]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                    DWF=[0](cms), CN/C=[73.6], IA=[9.74](mm),
                    N=[3], TP=[0.23]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland2"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                      FPSLOPE=[2.3](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                   [1000,1.7]
                                                   [1001,1.4]
                                                   [1002,1.7]
                                                   [2000,2]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                    DWF=[0](cms), CN/C=[73.9], IA=[9.53](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1

*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*|-------------------|----------------------------------------------------------------|
ROUTE CHANNEL       IDout=[8], NHYD=["Overland3"], IDin=[5],
                    RDT=[1](min),
                    CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                      FPSLOPE=[4.0](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                   [1000,1.7]
                                                   [1001,1.4]
                                                   [1002,1.7]
                                                   [2000,2]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                    DWF=[0](cms), CN/C=[74.8], IA=[9.93](mm),
                    N=[3], TP=[0.45]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ROUTE CHANNEL       IDout=[2], NHYD=["Overland4"], IDin=[1],
                    RDT=[1](min),
                    CHLGTH=[656](m),  CHSLOPE=[2.4](%),
                                      FPSLOPE=[2.4](%),
                    SECNUM=[1.1],        NSEG=[3]
                    ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                    ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                   [1000,1.7]
                                                   [1001,1.4]
                                                   [1002,1.7]
                                                   [2000,2]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
                    DWF=[0](cms), CN/C=[75.5], IA=[8.35](mm),
                    N=[3], TP=[0.54]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
*|-------------------|----------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
                    PDIAM=[525](mm), PLNGTH=[410](m),
                    PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
                    RDT=[1](min)
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[4], NHYD=["201B"], DT=[1]min, AREA=[13](ha),
                    DWF=[0](cms), CN/C=[73.1], IA=[7.27](mm),
                    N=[3], TP=[0.43]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
CALIB STANDHYD      ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.98](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ , , , , ](mm/hr) , END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[7], NHYD=["Add7b"], IDs to add=[1+2+4+8]
*|-------------------|----------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe2"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[450](m),
                    PROUGH=[0.013], PSLOPE=[0.015](m/m), IDin=[7],
                    RDT=[1](min)
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[2], NHYD=["201H"], DT=[1]min, AREA=[9.17](ha),
                    DWF=[0](cms), CN/C=[43.9], IA=[6.5](mm),
                    N=[3], TP=[0.47]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[4], NHYD=["Pipe3"], RNUMBER=[1],
                    PDIAM=[525](mm), PLNGTH=[435](m),
                    PROUGH=[0.013], PSLOPE=[0.013](m/m), IDin=[2],
                    RDT=[1](min)
*|-------------------|----------------------------------------------------------------|
CALIB STANDHYD      ID=[5], NHYD=["202C"], DT=[1](min), AREA=[12.6](ha),
                    XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                    SCS curve number CN=[79],
                    Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                         LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                    Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                         LGI=[289.33](m), MNI=[0.013], SCI=[0](m
                    RAINFALL=[ , , , , ](mm/hr) , END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[6], NHYD=["Add8"], IDs to add=[1+4+5]
*|-------------------|----------------------------------------------------------------|
ROUTE PIPE          PTYPE=[1]circ, IDout=[1], NHYD=["Pipe4"], RNUMBER=[1],
                    PDIAM=[750](mm), PLNGTH=[305](m),
                    PROUGH=[0.013], PSLOPE=[0.05](m/m), IDin=[6],
                    RDT=[1](min)
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[2], NHYD=["Add9"], IDs to add=[1+3]
*|-------------------|----------------------------------------------------------------|
CALIB NASHYD        ID=[1], NHYD=["SWMF"], DT=[1]min, AREA=[6.9](ha),
                    DWF=[0](cms), CN/C=[91.7], IA=[2.99](mm),
                    N=[3], TP=[0.05]hrs,
                    RAINFALL=[ , , , , ](mm/hr), END=-1
*|-------------------|----------------------------------------------------------------|
ADD HYD             IDsum=[3], NHYD=["Add10"], IDs to add=[1+2]
*|-------------------|----------------------------------------------------------------|
ROUTE RESERVOIR     IDout=[1],   NHYD=["SWM1"],   IDin=[3],
                    RDT=[1](min),
                         TABLE of   OUTFLOW-STORAGE  values
                                     (cms) - (ha-m)
                                   [ 0.0 ,  0.0 ]
                                   [ 0.0097     ,     0.1406 ]
                                   [ 0.0352     ,     0.3212 ]
                                   [ 0.0764     ,     0.5018 ]
                                   [ 0.0986     ,     0.6823 ]
                                   [ 0.1547     ,     0.8629 ]
                                   [ 0.3293     ,     1.0435 ]
                                   [ 0.5673     ,     1.2430 ]
                                   [ 0.8560     ,     1.4426 ]
```

```
                                 |   1.1368     ,    1.6421   |
                                 |   1.5548     ,    1.8417   |
                                 |   1.9562     ,    2.0412   |
                                 |   2.3891     ,    2.2712   |
                                 |   2.8505     ,    2.5013   |
                                 |   3.3385     ,    2.7313   |
                                 |   3.8521     ,    2.9614   |
                                 |   4.3895     ,    3.1914   |
                                 |   5.3341     ,    3.3362   |
                                 |   -1    ,   -1   ]   (max twenty pts)
                       IDovf=[2], NHYDovf=["Spillflow"]
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Pond 100yr"], IDs to add=[1-2]
*|------------------|-----------------------------------------------|
SAVE HYD             ID=[4],   # OF PCYCLES=[1],  ICASEsh=[-1]
                     HYD_FILENAME=["Pond100yr"]
                     HYD_COMMENT=["Pond100yr"]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["CottExt1"], DT=[1]min, AREA=[3.68](ha),
                     DWF=[0](cms),  CN/C=[81.3], IA=[5.96](mm),
                     N=[3], TP=[0.21]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["CottExt2"], DT=[1]min, AREA=[1.65](ha),
                     DWF=[0](cms),  CN/C=[76.2], IA=[7.38](mm),
                     N=[3], TP=[0.15]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["CottExt5"], DT=[1]min, AREA=[0.38](ha),
                     DWF=[0](cms),  CN/C=[76], IA=[9](mm),
                     N=[3], TP=[0.32]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
CALIB STANDHYD       ID=[5], NHYD=["CottB"], DT=[1](min), AREA=[2.49](ha),
                     XIMP=[0.43], TIMP=[0.59], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[79],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                          LGI=[128.34](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[6], NHYD=["SWM1 Outlet Junction"], IDs to add=[1+2+3+
*|------------------|-----------------------------------------------|
CALIB STANDHYD       ID=[2], NHYD=["CottA"], DT=[1](min), AREA=[3.26](ha),
                     XIMP=[0.40], TIMP=[0.56], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[79],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2.0](mm), SLPI=[0.5](%),
                                          LGI=[147.42](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["CottExt6"], DT=[1]min, AREA=[0.42](ha),
                     DWF=[0](cms),  CN/C=[76], IA=[9](mm),
                     N=[3], TP=[0.09]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Sunset Outlet"], IDs to add=[2+3+6]
*|------------------|-----------------------------------------------|
*#****************************************************************************
*#*************************Regional Timmins Storm******************************
*#****************************************************************************
*|------------------|-----------------------------------------------|
READ STORM           STORM_FILENAME=["tim.stm"]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                     DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                     N=[3], TP=[0.42]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["302"], DT=[1]min, AREA=[28.2](ha),
                     DWF=[0](cms),  CN/C=[74.2], IA=[9.59](mm),
                     N=[3], TP=[0.42]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["BCreek1"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[422](m),  CHSLOPE=[1.3](%),
                                       FPSLOPE=[1.3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[3], NHYD=["201C"], DT=[1]min, AREA=[21.6](ha),
                     DWF=[0](cms),  CN/C=[65.7], IA=[9.61](mm),
                     N=[3], TP=[0.59]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[4], NHYD=["Add1"], IDs to add=[2+3]
*|------------------|-----------------------------------------------|
ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["Pipe1"], RNUMBER=[1],
                     PDIAM=[900](mm), PLNGTH=[162](m),
                     PROUGH=[0.013], PSLOPE=[0.0216](m/m), IDin=[4],
                     RDT=[1](min)
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["301"], DT=[1]min, AREA=[44.3](ha),
                     DWF=[0](cms),  CN/C=[74], IA=[9.58](mm),
                     N=[3], TP=[0.58]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["Overland1"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[676](m),  CHSLOPE=[2.6](%),
                                       FPSLOPE=[2.6](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201K"], DT=[1]min, AREA=[9.77](ha),
                     DWF=[0](cms),  CN/C=[71], IA=[9.99](mm),
                     N=[3], TP=[0.53]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[2], NHYD=["Add2"], IDs to add=[3+4]
*|------------------|-----------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["BCreek2"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[261](m),  CHSLOPE=[2.3](%),
                                       FPSLOPE=[2.3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[2], NHYD=["Add3"], IDs to add=[1+3]
*|------------------|-----------------------------------------------|
ROUTE CHANNEL        IDout=[3], NHYD=["BCreek3"], IDin=[2],
                     RDT=[1](min),
                     CHLGTH=[204](m),  CHSLOPE=[3](%),
                                       FPSLOPE=[3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["201D"], DT=[1]min, AREA=[4.08](ha),
                     DWF=[0](cms),  CN/C=[46.2], IA=[7.33](mm),
                     N=[3], TP=[0.48]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["201E"], DT=[1]min, AREA=[9.13](ha),
                     DWF=[0](cms),  CN/C=[67.6], IA=[5.19](mm),
                     N=[3], TP=[0.62]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201F"], DT=[1]min, AREA=[9.08](ha),
                     DWF=[0](cms),  CN/C=[81.9], IA=[4.35](mm),
                     N=[3], TP=[0.75]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
CALIB STANDHYD       ID=[5], NHYD=["202B"], DT=[1](min), AREA=[16.01](ha),
                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[49],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                          LGI=[326.70](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[6], NHYD=["Add4"], IDs to add=[1+2+3+4+5]
*|------------------|-----------------------------------------------|
ROUTE CHANNEL        IDout=[1], NHYD=["BCreek4"], IDin=[6],
                     RDT=[1](min),
                     CHLGTH=[547](m),  CHSLOPE=[3](%),
                                       FPSLOPE=[3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1.75 -0.07,3 0.07,5] NSEG tim
                     ( DISTANCE (m), ELEVATION (m))=[0,3]
                                                    [1.75,1]
                                                    [3.25,1]
                                                    [5,3]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[2], NHYD=["201G"], DT=[1]min, AREA=[4.38](ha),
                     DWF=[0](cms),  CN/C=[79.4], IA=[5.5](mm),
                     N=[3], TP=[0.72]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[3], NHYD=["Add5"], IDs to add=[1+2]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["303"], DT=[1]min, AREA=[20.6](ha),
                     DWF=[0](cms),  CN/C=[73.6], IA=[9.74](mm),
                     N=[3], TP=[0.23]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["Overland2"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[550](m),  CHSLOPE=[2.3](%),
                                       FPSLOPE=[2.3](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201A"], DT=[1]min, AREA=[23.2](ha),
                     DWF=[0](cms),  CN/C=[73.9], IA=[9.53](mm),
                     N=[3], TP=[0.47]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1

*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[5], NHYD=["Add6"], IDs to add=[2+4]
*|------------------|-----------------------------------------------|
ROUTE CHANNEL        IDout=[8], NHYD=["Overland3"], IDin=[5],
                     RDT=[1](min),
                     CHLGTH=[500](m),  CHSLOPE=[4.0](%),
                                       FPSLOPE=[4.0](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[1], NHYD=["201J"], DT=[1]min, AREA=[16.4](ha),
                     DWF=[0](cms),  CN/C=[74.9], IA=[8.93](mm),
                     N=[3], TP=[0.45]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ROUTE CHANNEL        IDout=[2], NHYD=["Overland4"], IDin=[1],
                     RDT=[1](min),
                     CHLGTH=[656](m),  CHSLOPE=[2.4](%),
                                       FPSLOPE=[2.4](%),
                     SECNUM=[1.1],     NSEG=[3]
                     ( SEGROUGH, SEGDIST (m))=[0.07,1000 -0.07,1002 0.07, 2000] N
                     ( DISTANCE (m), ELEVATION (m))=[0,2]
                                                    [1000,1.7]
                                                    [1001,1.4]
                                                    [1002,1.7]
                                                    [2000,2]
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[6], NHYD=["201L"], DT=[1]min, AREA=[22.1](ha),
                     DWF=[0](cms),  CN/C=[75.5], IA=[8.35](mm),
                     N=[3], TP=[0.54]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
ADD HYD              IDsum=[5], NHYD=["Add7a"], IDs to add=[2+6]
*|------------------|-----------------------------------------------|
ROUTE PIPE           PTYPE=[1]circ, IDout=[1], NHYD=["SitePipe"], RNUMBER=[1],
                     PDIAM=[525](mm), PLNGTH=[410](m),
                     PROUGH=[0.013], PSLOPE=[0.0134](m/m), IDin=[5],
                     RDT=[1](min)
*|------------------|-----------------------------------------------|
CALIB NASHYD         ID=[4], NHYD=["201B"], DT=[1]min, AREA=[10](ha),
                     DWF=[0](cms),  CN/C=[73.1], IA=[7.27](mm),
                     N=[3], TP=[0.43]hrs,
                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
*|------------------|-----------------------------------------------|
CALIB STANDHYD       ID=[2], NHYD=["202E"], DT=[1](min), AREA=[7.39](ha),
                     XIMP=[0.35], TIMP=[0.5], DWF=[0](cms), LOSS=[2],
                     SCS curve number CN=[79],
                     Pervious   surfaces: IAper=[5](mm), SLPP=[2](%),
                                          LGP=[12.5](m), MNP=[0.24], SCP=[0](min)
                     Impervious surfaces: IAimp=[2](mm), SLPI=[0.5](%),
                                          LGI=[229.20](m), MNI=[0.013], SCI=[0](m
                     RAINFALL=[ ,  ,  ,  , ](mm/hr) ,  END=-1
```

```
02161> *------------------
02162> ADD HYD              IDsum={7}, NHYD={"Add7b"}, IDs to add={1+2+4+9}
02163> *------------------
02164> ROUTE PIPE           PTYPE={1}circ, IDout={1}, NHYD={"Pipe2"}, RNUMBER={1},
02165>                      PDIAM={750}(mm), PLNGTH={450}(m),
02166>                      PROUGH={0.013}  PSLOPE={0.015}(m/m), IDin={7},
02167>                      RDT={1}(min)
02168> *------------------
02169> CALIB NASHYD         ID={2}, NHYD={"201H"}, DT={1}min, AREA={9.17}ha,
02170>                      DWF={0}(cms),  CN/C={43.9}, IA={6.5}(mm),
02171>                      N={3}, TP={0.47}hrs,
02172>                      RAINFALL={ ,  ,  ,  , }(mm/hr),  END=-1
02173> *------------------
02174> ROUTE PIPE           PTYPE={1}circ, IDout={4}, NHYD={"Pipe3"}, RNUMBER={1},
02175>                      PDIAM={525}(mm), PLNGTH={435}(m),
02176>                      PROUGH={0.013}, PSLOPE={0.013}(m/m), IDin={2},
02177>                      RDT={1}(min)
02178> *------------------
02179> CALIB STANDHYD       ID={5}, NHYD={"202C"}, DT={1}(min), AREA={12.6}(ha),
02180>                      XIMP={0.35}, TIMP={0.5}, DWF={0}(cms), LOSS={2},
02181>                      SCS curve number CN={79},
02182>                      Pervious   surfaces: IAper={5}(mm), SLPP={2}(%),
02183>                                           LGP={12.5}(m), MNP={0.24}, SCP={0}(min)
02184>                      Impervious surfaces: IAimp={2}(mm), SLPI={0.5}(%),
02185>                                           LGI={289.93}(m), MNI={0.013}, SCI={0}(m
02186>                      RAINFALL={ ,  ,  ,  , }(mm/hr) ,  END=-1
02187> *------------------
02188> ADD HYD              IDsum={6}, NHYD={"Add8"}, IDs to add={1+4+5}
02189> *------------------
02190> ROUTE PIPE           PTYPE={1}circ, IDout={1}, NHYD={"Pipe4"}, RNUMBER={1},
02191>                      PDIAM={750}(mm), PLNGTH={305}(m),
02192>                      PROUGH={0.013}, PSLOPE={0.05}(m/m), IDin={6},
02193>                      RDT={1}(min)
02194> *------------------
02195> ADD HYD              IDsum={2}, NHYD={"Add9"}, IDs to add={1+3}
02196> *------------------
02197> CALIB NASHYD         ID={1}, NHYD={"SWM5"}, DT={1}min, AREA={6.9}(ha),
02198>                      DWF={0}(cms),  CN/C={91.7}, IA={2.99}(mm),
02199>                      N={3}, TP={0.35}hrs,
02200>                      RAINFALL={ ,  ,  ,  , }(mm/hr),  END=-1
02201> *------------------
02202> ADD HYD              IDsum={3}, NHYD={"Add10"}, IDs to add={1+2}
02203> *------------------
02204> ROUTE RESERVOIR      IDout={1},   NHYD={"SWM1"},  IDin={3},
02205>                      RDT={1}(min),
02206>                            TABLE of { OUTFLOW-STORAGE } values
02207>                                     (cms) - (ha-m)
02208>                                    {  0.0 ,  0.0 }
02209>                                    {  0.0097   ,    0.1406  }
02210>                                    {  0.0352   ,    0.3212  }
02211>                                    {  0.0764   ,    0.5018  }
02212>                                    {  0.0986   ,    0.6823  }
02213>                                    {  0.1547   ,    0.8629  }
02214>                                    {  0.3203   ,    1.0435  }
02215>                                    {  0.5673   ,    1.2430  }
02216>                                    {  0.8560   ,    1.4426  }
02217>                                    {  1.1868   ,    1.6421  }
02218>                                    {  1.5548   ,    1.8417  }
02219>                                    {  1.9562   ,    2.0412  }
02220>                                    {  2.3891   ,    2.2712  }
02221>                                    {  2.8505   ,    2.5013  }
02222>                                    {  3.3385   ,    2.7313  }
02223>                                    {  3.8521   ,    2.9614  }
02224>                                    {  4.3895   ,    3.1914  }
02225>                                    {  5.9341   ,    3.8362  }
02226>                                    {  -1  ,  -1  }  (max twenty pts)
02227>                           IDovf={2}, NHYDovf={"Spillflow"}
02228> *------------------
02229> ADD HYD              IDsum={4}, NHYD={"Pond Reg"}, IDs to add={1+2}
02230> *------------------
02231> SAVE HYD             ID={4},   # OF PCYCLES={1},  ICASEsh={-1}
02232>                      HYD_FILENAME={"PondReg"}
02233>                      HYD_COMMENT={"PondReg"}
02234> *------------------
02235> CALIB NASHYD         ID={1}, NHYD={"CottExt1"}, DT={1}min, AREA={3.68}(ha),
02236>                      DWF={0}(cms),  CN/C={81.3}, IA={5.96}(mm),
02237>                      N={3}, TP={0.21}hrs,
02238>                      RAINFALL={ ,  ,  ,  , }(mm/hr),  END=-1
02239> *------------------
02240> CALIB NASHYD         ID={2}, NHYD={"CottExt2"}, DT={1}min, AREA={1.65}(ha),
02241>                      DWF={0}(cms),  CN/C={76.2}, IA={7.38}(mm),
02242>                      N={3}, TP={0.15}hrs,
02243>                      RAINFALL={ ,  ,  ,  , }(mm/hr),  END=-1
02244> *------------------
02245> CALIB NASHYD         ID={3}, NHYD={"CottExt5"}, DT={1}min, AREA={0.38}(ha),
02246>                      DWF={0}(cms),  CN/C={76}, IA={8}(mm),
02247>                      N={3}, TP={0.32}hrs,
02248>                      RAINFALL={ ,  ,  ,  , }(mm/hr),  END=-1
02249> *------------------
02250> CALIB STANDHYD       ID={5}, NHYD={"CottB"}, DT={1}(min), AREA={2.49}(ha),
02251>                      XIMP={0.43}, TIMP={0.59}, DWF={0}(cms), LOSS={2},
02252>                      SCS curve number CN={79},
02253>                      Pervious   surfaces: IAper={5}(mm), SLPP={2}(%),
02254>                                           LGP={12.5}(m), MNP={0.24}, SCP={0}(min)
02255>                      Impervious surfaces: IAimp={2}(mm), SLPI={0.5}(%),
02256>                                           LGI={128.84}(m), MNI={0.013}, SCI={0}(m
02257>                      RAINFALL={ ,  ,  ,  , }(mm/hr) ,  END=-1
02258> *------------------
02259> ADD HYD              IDsum={6}, NHYD={"SWM1 Outlet Junction"}, IDs to add={1+2+3+
02260> *------------------
02261> CALIB STANDHYD       ID={2}, NHYD={"CottA"}, DT={1}(min), AREA={3.26}(ha),
02262>                      XIMP={0.40}, TIMP={0.56}, DWF={0}(cms), LOSS={2},
02263>                      SCS curve number CN={79},
02264>                      Pervious   surfaces: IAper={5}(mm), SLPP={2}(%),
02265>                                           LGP={12.51}(m), MNP={0.24}, SCP={0}(min)
02266>                      Impervious surfaces: IAimp={2.0}(mm), SLPI={0.5}(%),
02267>                                           LGI={147.42}(m), MNI={0.013}, SCI={0}(m
02268>                      RAINFALL={ ,  ,  ,  , }(mm/hr) ,  END=-1
02269> *------------------
02270> CALIB NASHYD         ID={3}, NHYD={"CottExt6"}, DT={1}min, AREA={0.42}(ha),
02271>                      DWF={0}(cms),  CN/C={76}, IA={9}(mm),
02272>                      N={3}, TP={0.39}hrs,
02273>                      RAINFALL={ ,  ,  ,  , }(mm/hr),  END=-1
02274> *------------------
02275> ADD HYD              IDsum={4}, NHYD={"Sunset Outlet"}, IDs to add={2+3+6}
02276> *------------------
02277> *------------------
02278> FINISH
02279>
02280>
02281>
02282>
02283>
02284>
02285>
02286>
02287>
02288>
02289>
02290>
02291>
```

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*****************************************************************************

  SSSSS  W   W  M   M  H   H  Y   Y  M   M   OOO          999    999     =========
  S      W W W  MM MM  H   H   Y Y   MM MM  O   O        9   9  9   9
  SSSSS  W W W  M M M  HHHHH    Y    M M M  O   O  ##    9   9  9   9    Ver  4.05
      S   W W   M   M  H   H    Y    M   M  O   O         9999   9999    Sept 2011
  SSSSS   W W   M   M  H   H    Y    M   M   OOO             9      9    =========
                                                         9   9  9   9    # 3737016
       StormWater Management HYdrologic Model             999    999     =========

 ****************************************************************************
 ********************************* SWMHYMO Ver/4.05 *************************
 *********  A single event and continuous hydrologic simulation model  *********
 *********     based on the principles of HYMO and its successors      *********
 *********                OTTHYMO-83 and OTTHYMO-89.                   *********
 ****************************************************************************
 ********* Distributed by:  J.F. Sabourin and Associates Inc.            *********
 *********                 Ottawa,  Ontario: (613) 836-3884             *********
 *********                 Gatineau, Quebec: (819) 243-6858             *********
 *********                 E-Mail: swmhymo@jfsa.Com                     *********
 ****************************************************************************

 ****************************************************************************
 +++++++++ Licensed user: C.F. Crozier & Associates Inc.               +++++++++
 +++++++++                Collingwood           SERIAL#:3737016        +++++++++
 ****************************************************************************

 ****************************************************************************
 *********           ++++++ PROGRAM ARRAY DIMENSIONS ++++++             *********
 *********           Maximum value for ID numbers  :     10             *********
 *********           Max. number of rainfall points: 105408             *********
 *********           Max. number of flow points    : 105408             *********
 ****************************************************************************

 ***** DESCRIPTION SUMMARY TABLE HEADERS (units depend on METOUT in START) *****
 *****-------------------------------------------------------------------*****
 *****     ID:  Hydrograph IDentification numbers, (1-10).                *****
 *****   NHYD:  Hydrograph reference numbers, (6 digits or characters).   *****
 *****   AREA:  Drainage area associated with hydrograph, (ac.) or (ha.). *****
 ***** QPEAK:  Peak flow of simulated hydrograph, (ft^3/s) or (m^3/s).    *****
 ***** TpeakDate_hh:mm is the date and time of the peak flow.             *****
 *****   R.V.:  Runoff Volume of simulated hydrograph, (in) or (mm).      *****
 *****   R.C.:  Runoff Coefficient of simulated hydrograph, (ratio).      *****
 *****      *:  see WARNING or NOTE message printed at end of run.        *****
 *****     **:  see  ERROR  message printed at end of run.                *****
 ****************************************************************************
 ****************************************************************************

:::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::

 ****************************************************************************

 *********************   S U M M A R Y   O U T P U T   *********************
 ****************************************************************************
 *        DATE: 2018-08-09       TIME: 16:07:02      RUN COUNTER: 000332    *
 ****************************************************************************
 * Input   filename: C:\AUGUST\POST\SCS\PstSCS.dat                           *
 * Output  filename: C:\AUGUST\POST\SCS\PstSCS.out                           *
 * Summary filename: C:\AUGUST\POST\SCS\PstSCS.sum                           *
 * User comments:                                                            *
 * 1:_______________________________________________________________________*
 * 2:_______________________________________________________________________*
 * 3:_______________________________________________________________________*
 ****************************************************************************


#****************************************************************************
#  Project Name: [Lora Bay Phase 4]                 Project Number: [469-3061]
#  Date         : August 9, 2018
#  Modeller     : [B. Ellsworth]
#  Company      : C.F. Crozier & Associates Inc.
#  License #    :  3737016
#****************************************************************************
#  Filename     :  Continuous Model
#  Continuous Model
#****************************************************************************
#****************************************************************************
#****************************************************************************
 RUN:COMMAND#
 001:0001------------------------------------------------------------------
     START
      [TZERO =     .00 hrs on         0]
      [METOUT=    2     (1=imperial, 2=metric output)]
      [NSTORM=    0 ]
      [NRUN  =    1 ]
#****************************************************************************
#*****************************2 year SCS 24HR HII Storm*********************
#****************************************************************************
 001:0002------------------------------------------------------------------
     MASS STORM
      Filename = C:\AUGUST\POST\SCS\SCS24HII.mst
      Comment  = 24 hour SCS II storm mass curve
      [SDT= 1.00:SDUR=  24.00:PTOT=  45.60]
 001:0003---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:302             28.20      .411 No_date   12:34    10.43
      [CN= 74.2: N= 3.00]
      [Tp=  .42:DT= 1.00]
 001:0004---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:302             28.20      .411 No_date   12:34    10.43
      [RDT= 1.00] out<- 02:BCreek1         28.20      .383 No_date   12:42    10.43
      [L/S/n=  422./1.300/.070]
      [Vmax=  .703:Dmax=  .325]
 001:0005---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        03:201C            21.60      .176 No_date   12:47     7.68
      [CN= 65.7: N= 3.00]
      [Tp=  .59:DT= 1.00]
 001:0006---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:BCreek1         28.20      .383 No_date   12:42    10.43
                       + 03:201C            21.60      .176 No_date   12:47     7.68
      [DT= 1.00]  SUM=  04:Add1             49.80      .558 No_date   12:43     9.24
 001:0007---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 04:Add1            49.80      .558 No_date   12:43     9.24
      [RDT= 1.00] out<- 01:Pipe1           49.80      .558 No_date   12:44     9.24
      [L/S/n=  162./2.160/.013]
      [Vmax= 3.305:Dmax=  .279]
      [Din=  .90:Dused=  .90]
 001:0008---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:301             44.80      .513 No_date   12:46    10.36
      [CN= 74.0: N= 3.00]
      [Tp=  .58:DT= 1.00]
 001:0009---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:301             44.80      .513 No_date   12:46    10.36
      [RDT= 1.00] out<- 03:Overland1       44.80      .403 No_date   13:25    10.36
      [L/S/n=  676./2.600/.070]
      [Vmax=  .302:Dmax=  .317]
 001:0010---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201K             9.77      .104 No_date   12:43     9.14
      [CN= 71.0: N= 3.00]
      [Tp=  .53:DT= 1.00]
 001:0011---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             03:Overland1       44.80      .403 No_date   13:25    10.36
                       + 04:201K             9.77      .104 No_date   12:43     9.14
      [DT= 1.00]  SUM=  02:Add2             54.57      .468 No_date   13:18    10.14
 001:0012---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:Add2            54.57      .468 No_date   13:18    10.14
      [RDT= 1.00] out<- 03:BCreek2         54.57      .467 No_date   13:19    10.14
      [L/S/n=  261./2.300/.070]
      [Vmax=  .877:Dmax=  .296]
 001:0013---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe1           49.80      .558 No_date   12:44     9.24
                       + 03:BCreek2         54.57      .467 No_date   13:19    10.14
      [DT= 1.00]  SUM=  02:Add3            104.37      .929 No_date   12:52     9.71
 001:0014---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:Add3           104.37      .929 No_date   12:52     9.71
      [RDT= 1.00] out<- 03:BCreek3        104.37      .928 No_date   12:54     9.71
      [L/S/n=  204./3.000/.070]
      [Vmax= 1.217:Dmax=  .407]
 001:0015---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:201D             4.08      .022 No_date   12:38     4.45
      [CN= 46.2: N= 3.00]
      [Tp=  .48:DT= 1.00]
 001:0016---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201E             8.13      .089 No_date   12:47    10.07
      [CN= 67.6: N= 3.00]
      [Tp=  .62:DT= 1.00]
 001:0017---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201F             9.08      .156 No_date   12:55    17.34
      [CN= 81.9: N= 3.00]
      [Tp=  .75:DT= 1.00]
 001:0018---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:202B            16.01      .738 No_date   12:15    19.88
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 49.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
 001:0019---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:201D             4.08      .022 No_date   12:38     4.45
                       + 02:201E             8.13      .089 No_date   12:47    10.07
                       + 03:BCreek3        104.37      .928 No_date   12:54     9.71
                       + 04:201F             9.08      .156 No_date   12:55    17.34
                       + 05:202B            16.01      .738 No_date   12:15    19.88
      [DT= 1.00]  SUM=  06:Add4            141.67     1.337 No_date   12:48    11.22
 001:0020---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 06:Add4           141.67     1.337 No_date   12:48    11.22
      [RDT= 1.00] out<- 01:BCreek4        141.67     1.318 No_date   12:54    11.22
      [L/S/n=  647./3.000/.070]
      [Vmax= 1.368:Dmax=  .499]
 001:0021---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201G             4.38      .064 No_date   12:53    14.61
      [CN= 78.4: N= 3.00]
      [Tp=  .72:DT= 1.00]
 001:0022---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:BCreek4        141.67     1.318 No_date   12:54    11.22
                       + 02:201G             4.38      .064 No_date   12:53    14.61
      [DT= 1.00]  SUM=  03:Add5            146.05     1.382 No_date   12:54    11.32
 001:0023---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:303             20.60      .437 No_date   12:21    10.13
      [CN= 73.6: N= 3.00]
      [Tp=  .23:DT= 1.00]
 001:0024---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:303             20.60      .437 No_date   12:21    10.13
      [RDT= 1.00] out<- 02:Overland2       20.60      .298 No_date   12:42    10.13
      [L/S/n=  550./2.300/.070]
      [Vmax=  .308:Dmax=  .315]
 001:0025---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201A            23.20      .310 No_date   12:38    10.34
      [CN= 73.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
 001:0026---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:Overland2       20.60      .298 No_date   12:42    10.13
                       + 04:201A            23.20      .310 No_date   12:38    10.34
      [DT= 1.00]  SUM=  05:Add6             43.80      .605 No_date   12:41    10.24
 001:0027---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 05:Add6            43.80      .605 No_date   12:41    10.24
      [RDT= 1.00] out<- 08:Overland3       43.80      .505 No_date   13:03    10.24
      [L/S/n=  500./4.000/.070]
      [Vmax=  .391:Dmax=  .316]
 001:0028---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:201J            16.40      .245 No_date   12:36    11.05
      [CN= 74.8: N= 3.00]
      [Tp=  .45:DT= 1.00]
 001:0029---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:201J            16.40      .245 No_date   12:36    11.05
      [RDT= 1.00] out<- 02:Overland4       16.40      .206 No_date   12:59    11.05
      [L/S/n=  656./2.400/.070]
      [Vmax=  .498:Dmax=  .303]
 001:0030---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        06:201L            22.10      .306 No_date   12:42    11.59
      [CN= 75.5: N= 3.00]
      [Tp=  .54:DT= 1.00]
 001:0031---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:Overland4       16.40      .206 No_date   12:59    11.05
                       + 06:201L            22.10      .306 No_date   12:42    11.59
      [DT= 1.00]  SUM=  05:Add7a            38.50      .497 No_date   12:48    11.36
 001:0032---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 05:Add7a           38.50      .497 No_date   12:48    11.36
      [RDT= 1.00] out<- 01:SitePipe        38.50      .495 No_date   12:50    11.36
      [L/S/n=  410./1.340/.013]
      [Vmax= 2.621:Dmax=  .430]
      [Din=  .53:Dused=  .53]
 001:0033---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201B            13.00      .204 No_date   12:34    11.15
      [CN= 73.1: N= 3.00]
      [Tp=  .43:DT= 1.00]
 001:0034---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      02:202E             7.88      .542 No_date   12:15    27.35
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=   .0]
 001:0035---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SitePipe        38.50      .495 No_date   12:50    11.36
                       + 02:202E             7.88      .542 No_date   12:15    27.35
                       + 04:201B            13.00      .204 No_date   12:34    11.15
                       + 08:Overland3       43.80      .505 No_date   13:03    10.24
      [DT= 1.00]  SUM=  07:Add7b           103.18     1.232 No_date   12:50    12.08
 001:0036---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 07:Add7b          103.18     1.232 No_date   12:50    12.08
      [RDT= 1.00] out<- 01:Pipe2          103.18     1.231 No_date   12:52    12.08
      [L/S/n=  450./1.500/.013]
      [Vmax= 3.495:Dmax=  .558]
      [Din=  .75:Dused=  .75]
 001:0037---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201H             9.17      .048 No_date   12:37     4.20
      [CN= 43.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
 001:0038---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE       -> 02:201H             9.17      .048 No_date   12:37     4.20
      [RDT= 1.00] out<- 04:Pipe3             9.17      .048 No_date   12:41     4.20
      [L/S/n=  435./1.300/.013]
      [Vmax= 1.442:Dmax=  .111]
      [Din=  .53:Dused=  .53]
 001:0039---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:202C            12.60      .828 No_date   12:16    27.35
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
 001:0040---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe2          103.18     1.231 No_date   12:52    12.08
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                    +  04:Pipe3          9.17      .048 No_date   12:41    4.20
                    +  05:202C          12.60      .828 No_date   12:16   27.35
      [DT= 1.00]  SUM=  06:Add8         124.95    1.780 No_date   12:18   13.04
001:0041--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 06:Add8        124.95    1.780 No_date   12:18   13.04
      [RDT= 1.00] out<- 01:Pipe4        124.95    1.777 No_date   12:19   13.04
      [L/S/n=  305./5.000/.013]
      [Vmax= 6.125:Dmax=  .469]
      [Din=  .75:Dused=  .75]
001:0042--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:Pipe4        124.95    1.777 No_date   12:19   13.04
                    +  03:Add5          146.05    1.302 No_date   12:54   11.32
      [DT= 1.00]  SUM=  02:Add9         271.00    2.827 No_date   12:48   12.11
001:0043--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      01:SWMF           6.80      .729 No_date   12:12   27.68
      [CN= 91.7: N= 3.00]
      [Tp=  .05:DT= 1.00]
001:0044--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:SWMF           6.80      .729 No_date   12:12   27.68
                    +  02:Add9          271.00    2.827 No_date   12:48   12.11
      [DT= 1.00]  SUM=  03:Add10        277.80    2.898 No_date   12:14   12.50
001:0045--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE RESERVOIR -> 03:Add10       277.80    2.898 No_date   12:14   12.50
      [RDT= 1.00] out<- 01:SWM1         277.80    1.113 No_date   14:19   12.49
            overflow <= 02:Spillflow       .00      .000 No_date    0:00     .00
      [MxStoUsed=.1597E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
001:0046--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:SWM1         277.80    1.113 No_date   14:19   12.49
                    +  02:Spillflow        .00      .000 No_date    0:00     .00
      [DT= 1.00]  SUM=  04:Pond 2yr     277.80    1.113 No_date   14:19   12.49
001:0047--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      SAVE HYD          04:Pond 2yr     277.80    1.113 No_date   14:19   12.49
      fname :C:\AUGUST\POST\SCS\Pond2yr.001
      remark:Pond2yr
001:0048--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      01:CottExt1       3.68      .138 No_date   12:19   16.02
      [CN= 81.3: N= 3.00]
      [Tp=  .21:DT= 1.00]
001:0049--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      02:CottExt2       1.65      .057 No_date   12:16   12.43
      [CN= 76.2: N= 3.00]
      [Tp=  .15:DT= 1.00]
001:0050--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      03:CottExt5        .38      .008 No_date   12:27   12.00
      [CN= 76.0: N= 3.00]
      [Tp=  .32:DT= 1.00]
001:0051--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD    05:CottB          2.49      .209 No_date   12:13   29.85
      [XIMP=.43:TIMP=.59]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
001:0052--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:CottExt1       3.68      .138 No_date   12:19   16.02
                    +  02:CottExt2       1.65      .057 No_date   12:16   12.43
                    +  03:CottExt5        .38      .008 No_date   12:27   12.00
                    +  04:Pond 2yr     277.80    1.113 No_date   14:19   12.49
                    +  05:CottB          2.49      .209 No_date   12:13   29.85
      [DT= 1.00]  SUM=  06:SWM1 Outle   286.00    1.143 No_date   14:15   12.69
001:0053--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD    02:CottA          3.26      .260 No_date   12:13   28.98
      [XIMP=.40:TIMP=.56]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
001:0054--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      03:CottExt6        .42      .017 No_date   12:13   12.00
      [CN= 76.0: N= 3.00]
      [Tp=  .09:DT= 1.00]
001:0055--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           02:CottA          3.26      .260 No_date   12:13   28.98
                    +  03:CottExt6        .42      .017 No_date   12:13   12.00
                    +  06:SWM1 Outle   286.00    1.143 No_date   14:15   12.69
      [DT= 1.00]  SUM=  04:Sunset Out   289.68    1.160 No_date   14:14   12.87
*******************************************************************************
**************************5 year SCS 24HR HII Storm****************************
*******************************************************************************
001:0056--------------------------------------------------------------------------
      MASS STORM
       Filename = C:\AUGUST\POST\SCS\SCS24HII.mst
       Comment  = 24 hour SCS II storm mass curve
       [SDT= 1.00:SDUR=  24.00:PTOT=  62.40]
001:0057--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      01:302            28.20      .822 No_date   12:33   19.76
      [CN= 74.2: N= 3.00]
      [Tp=  .42:DT= 1.00]
001:0058--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 01:302           28.20      .822 No_date   12:33   19.76
      [RDT= 1.00] out<- 02:BCreek1        28.20      .781 No_date   12:40   19.76
      [L/S/n=  422./1.300/.070]
      [Vmax=  .879:Dmax=  .480]
001:0059--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      03:201C           21.60      .365 No_date   12:45   15.03
      [CN= 65.7: N= 3.00]
      [Tp=  .59:DT= 1.00]
001:0060--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           02:BCreek1        28.20      .781 No_date   12:40   19.76
                    +  03:201C          21.60      .365 No_date   12:45   15.03
      [DT= 1.00]  SUM=  04:Add1         49.80    1.141 No_date   12:41   17.71
001:0061--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 04:Add1        49.80    1.141 No_date   12:41   17.71
      [RDT= 1.00] out<- 01:Pipe1        49.80    1.141 No_date   12:42   17.71
      [L/S/n=  162./2.160/.013]
      [Vmax= 4.017:Dmax=  .411]
      [Din=  .90:Dused=  .90]
001:0062--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      02:301            44.80    1.029 No_date   12:44   19.64
      [CN= 74.0: N= 3.00]
      [Tp=  .58:DT= 1.00]
001:0063--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 02:301           44.80    1.029 No_date   12:44   19.64
      [RDT= 1.00] out<- 03:Overland1      44.80      .699 No_date   13:38   19.64
      [L/S/n=  676./2.600/.070]
      [Vmax=  .205:Dmax=  .336]
001:0064--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      04:201K           9.77      .213 No_date   12:41   17.65
      [CN= 71.0: N= 3.00]
      [Tp=  .53:DT= 1.00]
001:0065--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           03:Overland1      44.80      .699 No_date   13:38   19.64
                    +  04:201K          9.77      .213 No_date   12:41   17.65
      [DT= 1.00]  SUM=  02:Add2         54.57      .797 No_date   13:29   19.28
001:0066--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 02:Add2        54.57      .797 No_date   13:29   19.28
      [RDT= 1.00] out<- 03:BCreek2      54.57      .796 No_date   13:30   19.28
      [L/S/n=  261./2.300/.070]
      [Vmax= 1.056:Dmax=  .402]
001:0067--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:Pipe1          49.80    1.141 No_date   12:42   17.71
                    +  03:BCreek2       54.57      .796 No_date   13:30   19.28
      [DT= 1.00]  SUM=  02:Add3         104.37    1.775 No_date   12:48   18.53
001:0068--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 02:Add3        104.37    1.775 No_date   12:48   18.53
      [RDT= 1.00] out<- 03:BCreek3      104.37    1.773 No_date   12:50   18.53
      [L/S/n=  204./3.000/.070]
      [Vmax= 1.494:Dmax=  .585]
001:0069--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      01:201D           4.08      .045 No_date   12:38    8.73
      [CN= 46.2: N= 3.00]
      [Tp=  .48:DT= 1.00]
001:0070--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      02:201E           8.13      .165 No_date   12:46   18.29
      [CN= 67.6: N= 3.00]
      [Tp=  .62:DT= 1.00]
001:0071--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      04:201F           9.08      .268 No_date   12:54   29.36
      [CN= 81.9: N= 3.00]
      [Tp=  .75:DT= 1.00]
001:0072--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD    05:202B          16.01    1.146 No_date   12:14   29.65
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 49.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
001:0073--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:201D           4.08      .045 No_date   12:38    8.73
                    +  02:201E          8.13      .165 No_date   12:46   18.29
                    +  03:BCreek3     104.37    1.773 No_date   12:50   18.53
                    +  04:201F          9.08      .268 No_date   12:54   29.36
                    +  05:202B         16.01    1.146 No_date   12:14   29.65
      [DT= 1.00]  SUM=  06:Add4       141.67    2.466 No_date   12:46   20.19
001:0074--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 06:Add4      141.67    2.466 No_date   12:46   20.19
      [RDT= 1.00] out<- 01:BCreek4    141.67    2.440 No_date   12:50   20.19
      [L/S/n=  647./3.000/.070]
      [Vmax= 1.653:Dmax=  .701]
001:0075--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      02:201G           4.38      .114 No_date   12:52   25.52
      [CN= 78.4: N= 3.00]
      [Tp=  .72:DT= 1.00]
001:0076--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:BCreek4      141.67    2.440 No_date   12:50   20.19
                    +  02:201G          4.38      .114 No_date   12:52   25.52
      [DT= 1.00]  SUM=  03:Add5       146.05    2.554 No_date   12:51   20.35
001:0077--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      01:303            20.60      .870 No_date   12:21   19.29
      [CN= 73.6: N= 3.00]
      [Tp=  .23:DT= 1.00]
001:0078--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 01:303         20.60      .870 No_date   12:21   19.29
      [RDT= 1.00] out<- 02:Overland2    20.60      .508 No_date   12:49   19.29
      [L/S/n=  550./2.300/.070]
      [Vmax=  .191:Dmax=  .334]
001:0079--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      04:201A           23.20      .619 No_date   12:37   19.60
      [CN= 73.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0080--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           02:Overland2      20.60      .508 No_date   12:49   19.29
                    +  04:201A          23.20      .619 No_date   12:37   19.60
      [DT= 1.00]  SUM=  05:Add6       43.80    1.101 No_date   12:42   19.46
001:0081--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 05:Add6        43.80    1.101 No_date   12:42   19.46
      [RDT= 1.00] out<- 08:Overland3    43.80      .860 No_date   13:10   19.46
      [L/S/n=  500./4.000/.070]
      [Vmax=  .252:Dmax=  .334]
001:0082--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      01:201J           16.40      .478 No_date   12:35   20.62
      [CN= 74.8: N= 3.00]
      [Tp=  .45:DT= 1.00]
001:0083--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE CHANNEL   -> 01:201J        16.40      .478 No_date   12:35   20.62
      [RDT= 1.00] out<- 02:Overland4    16.40      .359 No_date   13:08   20.62
      [L/S/n=  656./2.400/.070]
      [Vmax=  .298:Dmax=  .316]
001:0084--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      06:201L           22.10      .589 No_date   12:41   21.41
      [CN= 75.5: N= 3.00]
      [Tp=  .54:DT= 1.00]
001:0085--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           02:Overland4      16.40      .358 No_date   13:08   20.62
                    +  06:201L          22.10      .589 No_date   12:41   21.41
      [DT= 1.00]  SUM=  05:Add7a      38.50      .887 No_date   12:48   21.07
001:0086--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 05:Add7a       38.50      .887 No_date   12:48   21.07
  *   [RDT= 1.00] out<- 01:SitePipe     38.50      .885 No_date   12:51   21.07
      [L/S/n=  410./1.340/.013]
      [Vmax= 3.028:Dmax=  .535]
      [Din=  .53:Dused=  .65]
001:0087--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      04:201B           13.00      .387 No_date   12:33   20.45
      [CN= 73.1: N= 3.00]
      [Tp=  .43:DT= 1.00]
001:0088--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD    02:202E           7.88      .872 No_date   12:14   41.31
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=   .0]
001:0089--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:SitePipe       38.50      .885 No_date   12:51   21.07
                    +  02:202E          7.88      .872 No_date   12:14   41.31
                    +  04:201B          13.00      .387 No_date   12:33   20.45
                    +  08:Overland3     43.80      .860 No_date   13:18   19.46
      [DT= 1.00]  SUM=  07:Add7b      103.18    2.044 No_date   12:49   21.85
001:0090--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 07:Add7b      103.18    2.044 No_date   12:49   21.85
  *   [RDT= 1.00] out<- 01:Pipe2       103.18    2.042 No_date   12:51   21.85
      [L/S/n=  450./1.500/.013]
      [Vmax= 3.692:Dmax=  .716]
      [Din=  .75:Dused=  .87]
001:0091--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB NASHYD      02:201H           9.17      .097 No_date   12:37    8.21
      [CN= 43.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0092--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 02:201H        9.17      .097 No_date   12:37    8.21
      [RDT= 1.00] out<- 04:Pipe3        9.17      .096 No_date   12:40    8.21
      [L/S/n=  435./1.300/.013]
      [Vmax= 1.755:Dmax=  .158]
      [Din=  .53:Dused=  .53]
001:0093--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      CALIB STANDHYD    05:202C          12.60    1.335 No_date   12:15   41.31
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
001:0094--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:Pipe2        103.18    2.042 No_date   12:51   21.85
                    +  04:Pipe3          9.17      .096 No_date   12:40    8.21
                    +  05:202C          12.60    1.335 No_date   12:15   41.31
      [DT= 1.00]  SUM=  06:Add8       124.95    3.013 No_date   12:17   22.81
001:0095--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ROUTE PIPE      -> 06:Add8       124.95    3.013 No_date   12:17   22.81
  *   [RDT= 1.00] out<- 01:Pipe4       124.95    3.002 No_date   12:17   22.81
      [L/S/n=  305./5.000/.013]
      [Vmax= 6.735:Dmax=  .661]
      [Din=  .75:Dused=  .81]
001:0096--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
      ADD HYD           01:Pipe4        124.95    3.002 No_date   12:17   22.81
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00541>                    +  03:Add5          146.05     2.554 No date   12:51    20.35
00542>       [DT= 1.00]  SUM=  02:Add9          271.00     4.928 No date   12:47    21.48
00543>  001:0097--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00544>      CALIB NASHYD          01:SWMF          6.80     1.099 No date   12:12    42.83
00545>        [CN= 91.7: N= 3.00]
00546>        [Tp=  .05:DT= 1.00]
00547>  001:0098--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00548>      ADD HYD               01:SWMF          6.80     1.099 No date   12:12    42.83
00549>                        +  02:Add9          271.00     4.928 No date   12:47    21.48
00550>       [DT= 1.00]  SUM=  03:Add10         277.80     5.125 No date   12:15    22.01
00551>  001:0099--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00552>      ROUTE RESERVOIR -> 03:Add10         277.80     5.125 No date   12:15    22.01
00553>        [RDT= 1.00] out<- 01:SWM1         277.80     2.649 No date   14:02    22.00
00554>             overflow <= 02:Spillflow       .00      .000 No date    0:00      .00
00555>       [MxStoUsed=.2401E+01, TotOvfVol=.0000E+00, N-Ovf=    0, TotDurOvf=    0.hrs
00556>  001:0100--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00557>      ADD HYD               01:SWM1          277.80     2.649 No date   14:02    22.00
00558>                        +  02:Spillflow       .00      .000 No date    0:00      .00
00559>       [DT= 1.00]  SUM=  04:Pond 5yr      277.80     2.649 No date   14:02    22.00
00560>  001:0101--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00561>      SAVE HYD              04:Pond 5yr      277.80     2.649 No date   14:02    22.00
00562>        fname :C:\AUGUST\POST\SCS\Pond5yr.001
00563>        remark:Pond5yr
00564>  001:0102--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00565>      CALIB NASHYD          01:CottExt1      3.68      .243 No date   12:19    27.73
00566>        [CN= 81.3: N= 3.00]
00567>        [Tp=  .21:DT= 1.00]
00568>  001:0103--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00569>      CALIB NASHYD          02:CottExt2      1.65      .105 No date   12:16    22.53
00570>        [CN= 76.2: N= 3.00]
00571>        [Tp=  .15:DT= 1.00]
00572>  001:0104--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00573>      CALIB NASHYD          03:CottExt5       .38      .015 No date   12:26    21.98
00574>        [CN= 76.0: N= 3.00]
00575>        [Tp=  .32:DT= 1.00]
00576>  001:0105--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00577>      CALIB STANDHYD        05:CottB         2.49      .324 No date   12:12    44.33
00578>        [XIMP=.43:TIMP=.59]
00579>        [LOSS= 2 :CN= 79.0]
00580>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00581>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
00582>  001:0106--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00583>      ADD HYD               01:CottExt1      3.68      .243 No date   12:19    27.73
00584>                        +  02:CottExt2      1.65      .105 No date   12:16    22.53
00585>                        +  03:CottExt5       .38      .015 No date   12:26    21.98
00586>                        +  04:Pond 5yr     277.80     2.649 No date   14:02    22.00
00587>                        +  05:CottB          2.49      .324 No date   12:12    44.33
00588>       [DT= 1.00]  SUM=  06:SWM1 Outle    286.00     2.699 No date   14:02    22.28
00589>  001:0107--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00590>      CALIB STANDHYD        02:CottA         3.26      .404 No date   12:13    43.28
00591>        [XIMP=.40:TIMP=.56]
00592>        [LOSS= 2 :CN= 79.0]
00593>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00594>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
00595>  001:0108--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00596>      CALIB NASHYD          03:CottExt6       .42      .032 No date   12:13    21.98
00597>        [CN= 76.0: N= 3.00]
00598>        [Tp=  .09:DT= 1.00]
00599>  001:0109--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00600>      ADD HYD               02:CottA         3.26      .404 No date   12:13    43.28
00601>                        +  03:CottExt6       .42      .032 No date   12:13    21.98
00602>                        +  06:SWM1 Outle   286.00     2.699 No date   14:02    22.28
00603>       [DT= 1.00]  SUM=  04:Sunset Out    289.68     2.725 No date   14:02    22.51
00604> #*************************************************************************
00605> #*************************10 year SCS 24HR HII Storm**********************
00606> #*************************************************************************
00607>  001:0110--------------------------------------------------------------------
00608>      MASS STORM
00609>        Filename = C:\AUGUST\POST\SCS\SCS24HII.mst
00610>        Comment  = 24 hour SCS II storm mass curve
00611>        [SDT= 1.00:SDUR=  24.00:PTOT=  72.00]
00612>  001:0111--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00613>      CALIB NASHYD          01:302          20.20     1.092 No date   12:33    25.84
00614>        [CN= 74.2: N= 3.00]
00615>        [Tp=  .42:DT= 1.00]
00616>  001:0112--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00617>      ROUTE CHANNEL   -> 01:302          20.20     1.092 No date   12:33    25.84
00618>        [RDT= 1.00] out<- 02:BCreek1      20.20     1.045 No date   12:39    25.84
00619>        [L/S/n=  422./1.300/.070]
00620>        [Vmax=  .964:Dmax=  .563]
00621>  001:0113--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00622>      CALIB NASHYD          03:201C          21.60      .492 No date   12:45    19.96
00623>        [CN= 65.7: N= 3.00]
00624>        [Tp=  .59:DT= 1.00]
00625>  001:0114--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00626>      ADD HYD               02:BCreek1       20.20     1.045 No date   12:39    25.84
00627>                        +  03:201C          21.60      .492 No date   12:45    19.96
00628>       [DT= 1.00]  SUM=  04:Add1          49.80     1.531 No date   12:40    23.29
00629>  001:0115--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00630>      ROUTE PIPE      -> 04:Add1          49.80     1.531 No date   12:40    23.29
00631>        [RDT= 1.00] out<- 01:Pipe1        49.80     1.531 No date   12:41    23.29
00632>        [L/S/n=  162./2.160/.013]
00633>        [Vmax= 4.326:Dmax=  .489]
00634>        [Din=  .90:Dused=  .90]
00635>  001:0116--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00636>      CALIB NASHYD          02:301           44.80     1.368 No date   12:44    25.69
00637>        [CN= 74.0: N= 3.00]
00638>        [Tp=  .58:DT= 1.00]
00639>  001:0117--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00640>      ROUTE CHANNEL   -> 02:301          44.80     1.360 No date   12:44    25.69
00641>        [RDT= 1.00] out<- 03:Overland1    44.80      .854 No date   13:44    25.69
00642>        [L/S/n=  676./2.600/.070]
00643>        [Vmax=  .210:Dmax=  .339]
00644>  001:0118--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00645>      CALIB NASHYD          04:201K          9.77      .285 No date   12:40    23.26
00646>        [CN= 71.0: N= 3.00]
00647>        [Tp=  .53:DT= 1.00]
00648>  001:0119--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00649>      ADD HYD               03:Overland1     44.80      .854 No date   13:44    25.69
00650>                        +  04:201K          9.77      .285 No date   12:40    23.26
00651>       [DT= 1.00]  SUM=  02:Add2          54.57      .981 No date   13:10    25.25
00652>  001:0120--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00653>      ROUTE CHANNEL   -> 02:Add2          54.57      .981 No date   13:10    25.25
00654>        [RDT= 1.00] out<- 03:BCreek2      54.57      .978 No date   13:11    25.25
00655>        [L/S/n=  261./2.300/.070]
00656>        [Vmax= 1.131:Dmax=  .452]
00657>  001:0121--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00658>      ADD HYD               01:Pipe1         49.80     1.531 No date   12:41    23.29
00659>                        +  03:BCreek2       54.57      .978 No date   13:11    25.25
00660>       [DT= 1.00]  SUM=  02:Add3          104.37     2.356 No date   12:46    24.32
00661>  001:0122--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00662>      ROUTE CHANNEL   -> 02:Add3          104.37     2.356 No date   12:46    24.32
00663>        [RDT= 1.00] out<- 03:BCreek3      104.37     2.351 No date   12:48    24.32
00664>        [L/S/n=  204./3.000/.070]
00665>        [Vmax= 1.630:Dmax=  .684]
00666>  001:0123--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00667>      CALIB NASHYD          01:201D          4.08      .061 No date   12:37    11.70
00668>        [CN= 46.2: N= 3.00]
00669>        [Tp=  .48:DT= 1.00]
00670>  001:0124--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00671>      CALIB NASHYD          02:201E          8.13      .215 No date   12:46    23.67
00672>        [CN= 67.6: N= 3.00]
00673>        [Tp=  .62:DT= 1.00]
00674>  001:0125--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00675>      CALIB NASHYD          04:201F          9.08      .339 No date   12:53    36.81
00676>        [CN= 81.9: N= 3.00]
00677>        [Tp=  .75:DT= 1.00]
00678>  001:0126--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00679>      CALIB STANDHYD        05:202B         16.01     1.404 No date   12:14    35.62
00680>        [XIMP=.35:TIMP=.50]
00681>        [LOSS= 2 :CN= 49.0]
00682>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00683>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
00684>  001:0127--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00685>      ADD HYD               01:201D          4.08      .061 No date   12:37    11.70
00686>                        +  02:201E          8.13      .215 No date   12:46    23.67
00687>                        +  03:BCreek3     104.37     2.351 No date   12:48    24.32
00688>                        +  04:201F          9.08      .338 No date   12:53    36.81
00689>                        +  05:202B         16.01     1.404 No date   12:14    35.62
00690>       [DT= 1.00]  SUM=  06:Add4          141.67     3.230 No date   12:45    26.00
00691>  001:0128--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00692>      ROUTE CHANNEL   -> 06:Add4          141.67     3.230 No date   12:45    26.00
00693>        [RDT= 1.00] out<- 01:BCreek4      141.67     3.196 No date   12:49    26.00
00694>        [L/S/n=  647./3.000/.070]
00695>        [Vmax= 1.789:Dmax=  .813]
00696>  001:0129--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00697>      CALIB NASHYD          02:201G          4.38      .147 No date   12:52    32.40
00698>        [CN= 78.4: N= 3.00]
00699>        [Tp=  .72:DT= 1.00]
00700>  001:0130--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00701>      ADD HYD               01:BCreek4      141.67     3.196 No date   12:49    26.00
00702>                        +  02:201G          4.38      .147 No date   12:52    32.40
00703>       [DT= 1.00]  SUM=  03:Add5          146.05     3.342 No date   12:49    26.19
00704>  001:0131--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00705>      CALIB NASHYD          01:303           20.60     1.155 No date   12:20    25.27
00706>        [CN= 73.6: N= 3.00]
00707>        [Tp=  .23:DT= 1.00]
00708>  001:0132--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00709>      ROUTE CHANNEL   -> 01:303          20.60     1.155 No date   12:20    25.27
00710>        [RDT= 1.00] out<- 02:Overland2    20.60      .617 No date   12:52    25.27
00711>        [L/S/n=  550./2.300/.070]
00712>        [Vmax=  .195:Dmax=  .336]
00713>  001:0133--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00714>      CALIB NASHYD          04:201A          23.20      .823 No date   12:36    25.64
00715>        [CN= 73.9: N= 3.00]
00716>        [Tp=  .47:DT= 1.00]
00717>  001:0134--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00718>      ADD HYD               02:Overland2     20.60      .617 No date   12:52    25.27
00719>                        +  04:201A          23.20      .823 No date   12:36    25.64
00720>       [DT= 1.00]  SUM=  05:Add6          43.80     1.386 No date   12:43    25.47
00721>  001:0135--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00722>      ROUTE CHANNEL   -> 05:Add6          43.80     1.386 No date   12:43    25.47
00723>        [RDT= 1.00] out<- 08:Overland3    43.80     1.027 No date   13:25    25.47
00724>        [L/S/n=  500./4.000/.070]
00725>        [Vmax=  .256:Dmax=  .337]
00726>  001:0136--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00727>      CALIB NASHYD          01:201J          16.40      .630 No date   12:35    26.83
00728>        [CN= 74.8: N= 3.00]
00729>        [Tp=  .45:DT= 1.00]
00730>  001:0137--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00731>      ROUTE CHANNEL   -> 01:201J          16.40      .630 No date   12:35    26.83
00732>        [RDT= 1.00] out<- 02:Overland4    16.40      .447 No date   13:09    26.83
00733>        [L/S/n=  656./2.400/.070]
00734>        [Vmax=  .236:Dmax=  .325]
00735>  001:0138--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00736>      CALIB NASHYD          06:201L          22.10      .773 No date   12:40    27.73
00737>        [CN= 75.5: N= 3.00]
00738>        [Tp=  .54:DT= 1.00]
00739>  001:0139--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00740>      ADD HYD               02:Overland4     16.40      .447 No date   13:09    26.83
00741>                        +  06:201L          22.10      .773 No date   12:40    27.73
00742>       [DT= 1.00]  SUM=  05:Add7a         38.50     1.125 No date   12:48    27.35
00743>  001:0140--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00744>      ROUTE PIPE      -> 05:Add7a         38.50     1.125 No date   12:48    27.35
00745>  *     [RDT= 1.00] out<- 01:SitePipe     38.50     1.123 No date   12:51    27.35
00746>        [L/S/n=  410./1.340/.013]
00747>        [Vmax= 3.213:Dmax=  .585]
00748>        [Din=  .53:Dused=  .71]
00749>  001:0141--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00750>      CALIB NASHYD          04:201B          13.00      .507 No date   12:33    26.49
00751>        [CN= 73.1: N= 3.00]
00752>        [Tp=  .43:DT= 1.00]
00753>  001:0142--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00754>      CALIB STANDHYD        02:202E          7.88     1.063 No date   12:14    49.64
00755>        [XIMP=.35:TIMP=.50]
00756>        [LOSS= 2 :CN= 79.0]
00757>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00758>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=   .0]
00759>  001:0143--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00760>      ADD HYD               01:SitePipe      38.50     1.123 No date   12:51    27.35
00761>                        +  02:202E          7.88     1.063 No date   12:14    49.64
00762>                        +  04:201B          13.00      .507 No date   12:33    26.49
00763>                        +  08:Overland3     43.80     1.027 No date   13:25    25.47
00764>       [DT= 1.00]  SUM=  07:Add7b         103.18     2.573 No date   12:48    28.14
00765>  001:0144--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00766>      ROUTE PIPE      -> 07:Add7b         103.18     2.573 No date   12:48    28.14
00767>  *     [RDT= 1.00] out<- 01:Pipe2        103.18     2.571 No date   12:50    28.14
00768>        [L/S/n=  450./1.500/.013]
00769>        [Vmax= 4.122:Dmax=  .781]
00770>        [Din=  .75:Dused=  .95]
00771>  001:0145--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00772>      CALIB NASHYD          02:201H          9.17      .131 No date   12:37    11.00
00773>        [CN= 43.9: N= 3.00]
00774>        [Tp=  .47:DT= 1.00]
00775>  001:0146--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00776>      ROUTE PIPE      -> 02:201H          9.17      .131 No date   12:37    11.00
00777>        [RDT= 1.00] out<- 04:Pipe3        9.17      .130 No date   12:40    11.00
00778>        [L/S/n=  435./1.300/.013]
00779>        [Vmax= 1.911:Dmax=  .185]
00780>        [Din=  .53:Dused=  .53]
00781>  001:0147--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00782>      CALIB STANDHYD        05:202C          12.60     1.654 No date   12:14    49.64
00783>        [XIMP=.35:TIMP=.50]
00784>        [LOSS= 2 :CN= 79.0]
00785>        [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
00786>        [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
00787>  001:0148--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00788>      ADD HYD               01:Pipe2        103.18     2.571 No date   12:50    28.14
00789>                        +  04:Pipe3          9.17      .130 No date   12:40    11.00
00790>                        +  05:202C          12.60     1.654 No date   12:14    49.64
00791>       [DT= 1.00]  SUM=  06:Add8          124.95     3.739 No date   12:16    29.05
00792>  001:0149--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00793>      ROUTE PIPE      -> 06:Add8          124.95     3.739 No date   12:16    29.05
00794>  *     [RDT= 1.00] out<- 01:Pipe4        124.95     3.728 No date   12:17    29.05
00795>        [L/S/n=  305./5.000/.013]
00796>        [Vmax= 7.108:Dmax=  .717]
00797>        [Din=  .75:Dused=  .87]
00798>  001:0150--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00799>      ADD HYD               01:Pipe4        124.95     3.728 No date   12:17    29.05
00800>                        *  03:Add5          146.05     3.342 No date   12:49    26.19
00801>       [DT= 1.00]  SUM=  02:Add9          271.00     6.321 No date   12:46    27.51
00802>  001:0151--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00803>      CALIB NASHYD          01:SWMF          6.80     1.312 No date   12:12    51.76
00804>        [CN= 91.7: N= 3.00]
00805>        [Tp=  .05:DT= 1.00]
00806>  001:0152--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
00807>      ADD HYD               01:SWMF          6.80     1.312 No date   12:12    51.76
00808>                        *  02:Add9          271.00     6.321 No date   12:46    27.51
00809>       [DT= 1.00]  SUM=  03:Add10         277.80     6.524 No date   12:14    28.10
00810>  001:0153--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
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00811>       ROUTE RESERVOIR -> 03:Add10         277,80     6,524 No_date   12:14   28,10
00812>         [RDT= 1,00) out<- 01:SWM1         277,80     3,617 No_date   13:57   28,10
00813>                overflow <= 02:Spillflow      ,00      ,000 No_date    0:00     ,00
00814>       [MxStoUsed=,2856E+01, TotOvfVol=,0000E+00, N-Ovf=    0, TotDurOvf=    0,hrs
00815> 001:0154--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00816>       ADD HYD         01:SWM1         277,80     3,617 No_date   13:57   28,10
00817>                     + 02:Spillflow       ,00      ,000 No_date    0:00     ,00
00818>         [DT= 1,00]  SUM=  04:Pond 10yr 277,80     3,617 No_date   13:57   28,10
00819> 001:0155--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00820>       SAVE HYD        04:Pond 10yr    277,80     3,617 No_date   13:57   28,10
00821>         fname :C:\AUGUST\POST\SCS\Pond10yr,001
00822>         remark:Pond10yr
00823> 001:0156--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00824>       CALIB NASHYD      01:CottExt1       3,68      ,308 No_date   12:19   35,04
00825>         [CN= 81.3: N= 3,00]
00826>         [Tp= ,21:DT= 1,00]
00827> 001:0157--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00828>       CALIB NASHYD      02:CottExt2       1,65      ,136 No_date   12:16   29,01
00829>         [CN= 76,2: N= 3,00]
00830>         [Tp= ,15:DT= 1,00]
00831> 001:0158--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00832>       CALIB NASHYD      03:CottExt5         ,38      ,020 No_date   12:26   28,40
00833>         [CN= 76,0: N= 3,00]
00834>         [Tp= ,32:DT= 1,00]
00835> 001:0159--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00836>       CALIB STANDHYD    05:CottB          2,49      ,391 No_date   12:12   52,90
00837>         [XIMP=,43:TIMP=,59]
00838>         [LOSS= 2 :CN= 79,0]
00839>         [Pervious     area: IAper= 5,00:SLPP=2.00:LGP=  13,:MNP=,240:SCP=    ,0]
00840>         [Impervious   area: IAimp= 2,00:SLPI= .50:LGI= 129,:MNI=,013:SCI=    ,0]
00841> 001:0160--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00842>       ADD HYD         01:CottExt1       3,68      ,308 No_date   12:19   35,04
00843>                     + 02:CottExt2       1,65      ,136 No_date   12:16   29,01
00844>                     + 03:CottExt5         ,38      ,020 No_date   12:26   28,40
00845>                     + 04:Pond 10yr    277,80     3,617 No_date   13:57   28,10
00846>                     + 05:CottB          2,49      ,391 No_date   12:12   52,90
00847>         [DT= 1,00]  SUM=  06:SWM1 Outle 286,00     3,678 No_date   13:57   28,41
00848> 001:0161--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00849>       CALIB STANDHYD    02:CottA          3,26      ,494 No_date   12:13   51,77
00850>         [XIMP=,40:TIMP=,56]
00851>         [LOSS= 2 :CN= 79,0]
00852>         [Pervious     area: IAper= 5,00:SLPP=2,00:LGP=  13,:MNP=,240:SCP=    ,0]
00853>         [Impervious   area: IAimp= 2,00:SLPI= .50:LGI= 147,:MNI=,013:SCI=    ,0]
00854> 001:0162--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00855>       CALIB NASHYD      03:CottExt6         ,42      ,042 No_date   12:13   28,40
00856>         [CN= 76.0: N= 3,00]
00857>         [Tp= ,09:DT= 1,00]
00858> 001:0163--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00859>       ADD HYD         02:CottA          3,26      ,494 No_date   12:13   51,77
00860>                     + 03:CottExt6         ,42      ,042 No_date   12:13   28,40
00861>                     + 06:SWM1 Outle 286,00     3,678 No_date   13:57   28,41
00862>         [DT= 1,00]  SUM=  04:Sunset Out 289,68     3,709 No_date   13:57   28,67
00863> #*************************************************************************
00864> #*************************25 year SCS 24HR HII Storm**************************
00865> #*************************************************************************
00866> 001:0164--------------------------------------------------------------------
00867>       MASS STORM
00868>         Filename = C:\AUGUST\POST\SCS\SCS24HII,mst
00869>         Comment  = 24 hour SCS II storm mass curve
00870>         [SDT= 1,00:SDUP=  24,00:PTOT=  86,40]
00871> 001:0165--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00872>       CALIB NASHYD      01:302           28,20     1,532 No_date   12:32   35,73
00873>         [CN= 74,2: N= 3,00]
00874>         [Tp= ,42:DT= 1,00]
00875> 001:0166--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00876>       ROUTE CHANNEL   -> 01:302          28,20     1,532 No_date   12:32   35,73
00877>         [RDT= 1,00] out<- 02:BCreek1     28,20     1,477 No_date   12:38   35,73
00878>         [L/S/n=  422,/1,300/,070]
00879>         [Vmax= 1,069:Dmax=  ,679]
00880> 001:0167--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00881>       CALIB NASHYD      03:201C          21,60      ,706 No_date   12:44   28,16
00882>         [CN= 65,7: N= 3,00]
00883>         [Tp= ,59:DT= 1,00]
00884> 001:0168--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00885>       ADD HYD         02:BCreek1       28,20     1,477 No_date   12:38   35,73
00886>                     + 03:201C          21,60      ,706 No_date   12:44   28,16
00887>         [DT= 1,00]  SUM=  04:Add1        49,80     2,171 No_date   12:39   32,45
00888> 001:0169--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00889>       ROUTE PIPE      -> 04:Add1         49,80     2,171 No_date   12:39   32,45
00890>         [RDT= 1,00] out<- 01:Pipe1       49,80     2,171 No_date   12:40   32,45
00891>         [L/S/n=  162,/2,160/,013]
00892>         [Vmax= 4,665:Dmax=  ,618]
00893>         [Din=  ,90:Dused=  ,90]
00894> 001:0170--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00895>       CALIB NASHYD      02:301           44,80     1,922 No_date   12:43   35,54
00896>         [CN= 74,0: N= 3.00]
00897>         [Tp= ,58:DT= 1.00]
00898> 001:0171--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00899>       ROUTE CHANNEL   -> 02:301          44,80     1,922 No_date   12:43   35,54
00900>         [RDT= 1,00] out<- 03:Overland1   44,80     1,155 No_date   13:22   35,54
00901>         [L/S/n=  676,/2.600/,070]
00902>         [Vmax=  ,218:Dmax=  ,345]
00903> 001:0172--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00904>       CALIB NASHYD      04:201K           9,77      ,405 No_date   12:40   32,48
00905>         [CN= 71,0: N= 3.00]
00906>         [Tp=  ,53:DT= 1.00]
00907> 001:0173--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00908>       ADD HYD         03:Overland1     44,80     1,155 No_date   13:22   35,54
00909>                     + 04:201K           9,77      ,405 No_date   12:40   32,48
00910>         [DT= 1,00]  SUM=  02:Add2        54,57     1,405 No_date   13:11   34,99
00911> 001:0174--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00912>       ROUTE CHANNEL   -> 02:Add2         54,57     1,405 No_date   13:11   34,99
00913>         [RDT= 1,00] out<- 03:BCreek2     54,57     1,403 No_date   13:15   34,99
00914>         [L/S/n=  261,/2,300/,070]
00915>         [Vmax= 1.270:Dmax=  ,553]
00916> 001:0175--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00917>       ADD HYD         01:Pipe1         49,80     2,171 No_date   12:40   32,45
00918>                     + 03:BCreek2       54,57     1,403 No_date   13:15   34,99
00919>         [DT= 1,00]  SUM=  02:Add3       104,37     3,283 No_date   12:45   33,78
00920> 001:0176--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00921>       ROUTE CHANNEL   -> 02:Add3       104,37     3,283 No_date   12:45   33,78
00922>         [RDT= 1,00] out<- 03:BCreek3     104,37     3,278 No_date   12:46   33,78
00923>         [L/S/n=  204,/3,000/,070]
00924>         [Vmax= 1,799:Dmax=  ,820]
00925> 001:0177--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00926>       CALIB NASHYD      01:201D           4.08      ,089 No_date   12:37   16,79
00927>         [CN= 46,2: N= 3,00]
00928>         [Tp= ,48:DT= 1,00]
00929> 001:0178--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00930>       CALIB NASHYD      02:201E           9,13      ,298 No_date   12:45   32,50
00931>         [CN= 67,6: N= 3,00]
00932>         [Tp= ,62:DT= 1,00]
00933> 001:0179--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00934>       CALIB NASHYD      04:201F           9.08      ,449 No_date   12:53   48,55
00935>         [CN= 81,9: N= 3,00]
00936>         [Tp= ,75:DT= 1,00]
00937> 001:0180--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00938>       CALIB STANDHYD    05:202B          16,01     1,847 No_date   12:14   45,03
00939>         [XIMP=,35:TIMP=,50]
00940>         [LOSS= 2 :CN= 49,0]
00941>         [Pervious     area: IAper= 5,00:SLPP=2,00:LGP=  13,:MNP=,240:SCP=    ,0]
00942>         [Impervious   area: IAimp= 2,00:SLPI= .50:LGI= 327,:MNI=,013:SCI=    ,0]
00943> 001:0181--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00944>       ADD HYD         01:201D           4.08      ,089 No_date   12:37   16,79
00945>                     + 02:201E           9,13      ,298 No_date   12:45   32,50
00946>                     + 03:BCreek3       104,37     3,278 No_date   12:46   33,78
00947>                     + 04:201F           9,08      ,449 No_date   12:53   48,55
00948>                     + 05:202B          16,01     1,847 No_date   12:14   45,03
00949>         [DT= 1,00]  SUM=  06:Add4       141,67     4,439 No_date   12:43   35,43
00950> 001:0182--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00951>       ROUTE CHANNEL   -> 06:Add4       141,67     4,439 No_date   12:43   35,43
00952>         [RDT= 1,00] out<- 01:BCreek4     141.67     4,398 No_date   12:48   35,43
00953>         [L/S/n=  647,/3,000/,070]
00954>         [Vmax= 1,959:Dmax=  .964]
00955> 001:0183--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00956>       CALIB NASHYD      02:201G           4.38      .198 No_date   12:51   43,38
00957>         [CN= 78,4: N= 3,00]
00958>         [Tp=  .72:DT= 1,00]
00959> 001:0184--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00960>       ADD HYD         01:BCreek4       141.67     4,398 No_date   12:48   35,43
00961>                     + 02:201G           4.38      .198 No_date   12:51   43,38
00962>         [DT= 1,00]  SUM=  03:Add5       146,05     4,595 No_date   12:48   35,67
00963> 001:0185--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00964>       CALIB NASHYD      01:303           20,60     1,620 No_date   12:20   35,03
00965>         [CN= 73,6: N= 3,00]
00966>         [Tp=  .23:DT= 1,00]
00967> 001:0186--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00968>       ROUTE CHANNEL   -> 01:303          20,60     1,620 No_date   12:20   35,03
00969>         [RDT= 1,00] out<- 02:Overland2   20,60      ,771 No_date   12:55   35,03
00970>         [L/S/n=  550,/2,300/,070]
00971>         [Vmax=  ,202:Dmax=  ,343]
00972> 001:0187--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00973>       CALIB NASHYD      04:201A          23,20     1,155 No_date   12:36   35,47
00974>         [CN= 73,9: N= 3,00]
00975>         [Tp=  ,47:DT= 1,00]
00976> 001:0188--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00977>       ADD HYD         02:Overland2     20,60      ,771 No_date   12:55   35,03
00978>                     + 04:201A          23,20     1,155 No_date   12:36   35,47
00979>         [DT= 1,00]  SUM=  05:Add6        43,80     1,844 No_date   12:37   35,26
00980> 001:0189--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00981>       ROUTE CHANNEL   -> 05:Add6        43,80     1,844 No_date   12:37   35,26
00982>         [RDT= 1,00] out<- 08:Overland3   43,80     1,363 No_date   13:10   35,26
00983>         [L/S/n=  500,/4.000/,070]
00984>         [Vmax=  ,262:Dmax=  ,341]
00985> 001:0190--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00986>       CALIB NASHYD      01:201J          16,40      ,878 No_date   12:34   36,88
00987>         [CN= 74,8: N= 3,00]
00988>         [Tp=  ,45:DT= 1.00]
00989> 001:0191--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00990>       ROUTE CHANNEL   -> 01:201J       16,40      ,878 No_date   12:34   36,88
00991>         [RDT= 1,00] out<- 02:Overland4   16,40      ,578 No_date   13:14   36,88
00992>         [L/S/n=  656,/2.400/,070]
00993>         [Vmax=  ,195:Dmax=  ,334]
00994> 001:0192--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00995>       CALIB NASHYD      06:201L          22,10     1,072 No_date   12:40   37,96
00996>         [CN= 75,5: N= 3.00]
00997>         [Tp=  ,54:DT= 1.00]
00998> 001:0193--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
00999>       ADD HYD         02:Overland4     16,40      ,578 No_date   13:14   36,88
01000>                     + 06:201L          22,10     1,072 No_date   12:40   37,96
01001>         [DT= 1,00]  SUM=  05:Add7a       38,50     1,492 No_date   12:45   37,50
01002> 001:0194--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01003>       ROUTE PIPE      -> 05:Add7a        38,50     1,492 No_date   12:45   37,50
01004>   *   [RDT= 1.00] out<- 01:SitePipe      38,50     1,489 No_date   12:49   37,50
01005>         [L/S/n=  410,/1,340/,013]
01006>         [Vmax= 3,448:Dmax=  .650]
01007>         [Din=  ,53:Dused=  ,79]
01008> 001:0195--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01009>       CALIB NASHYD      04:201B          13,00      ,702 No_date   12:33   36,28
01010>         [CN= 73,1: N= 3,00]
01011>         [Tp=  ,43:DT= 1,00]
01012> 001:0196--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01013>       CALIB STANDHYD    02:202E           7,88     1,381 No_date   12:13   62,48
01014>         [XIMP=.35:TIMP=,50]
01015>         [LOSS= 2 :CN= 79,0]
01016>         [Pervious     area: IAper= 5,00:SLPP=2,00:LGP=  13,:MNP=,240:SCP=    ,0]
01017>         [Impervious   area: IAimp= 2,00:SLPI= .50:LGI= 229,:MNI=,013:SCI=    ,0]
01018> 001:0197--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01019>       ADD HYD         01:SitePipe        38,50     1,489 No_date   12:49   37,50
01020>                     + 02:202E           7,88     1,381 No_date   12:13   62,48
01021>                     + 04:201B          13,00      ,702 No_date   12:33   36,28
01022>                     + 08:Overland3     43,80     1,363 No_date   13:10   35,26
01023>         [DT= 1,00]  SUM=  07:Add7b      103,18     3,432 No_date   12:51   38,31
01024> 001:0198--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01025>       ROUTE PIPE      -> 07:Add7b       103,18     3,432 No_date   12:51   38,31
01026>   *   [RDT= 1,00] out<- 01:Pipe2        103,18     3,430 No_date   12:52   38,31
01027>         [L/S/n=  450,/1,500/,013]
01028>         [Vmax= 4.430:Dmax=  ,870]
01029>         [Din=  ,75:Dused= 1,06]
01030> 001:0199--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01031>       CALIB NASHYD      02:201H           9,17      ,189 No_date   12:36   15,78
01032>         [CN= 43,9: N= 3.00]
01033>         [Tp=  ,47:DT= 1,00]
01034> 001:0200--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01035>       ROUTE PIPE      -> 02:201H         9,17      ,189 No_date   12:36   15,78
01036>         [RDT= 1,00] out<- 04:Pipe3       9,17      ,188 No_date   12:39   15,78
01037>         [L/S/n=  435,/1,300/,013]
01038>         [Vmax= 2.118:Dmax=  ,226]
01039>         [Din=  .53:Dused=  .53]
01040> 001:0201--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01041>       CALIB STANDHYD    05:202C          12,60     2,123 No_date   12:14   62,48
01042>         [XIMP=,35:TIMP=,50]
01043>         [LOSS= 2 :CN= 79,0]
01044>         [Pervious     area: IAper= 5,00:SLPP=2,00:LGP=  13,:MNP=,240:SCP=    ,0]
01045>         [Impervious   area: IAimp= 2,00:SLPI= .50:LGI= 290,:MNI=,013:SCI=    ,0]
01046> 001:0202--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01047>       ADD HYD         01:Pipe2         103,18     3,430 No_date   12:52   38,31
01048>                     + 04:Pipe3           9,17      .188 No_date   12:39   15,78
01049>                     + 05:202C           12.60     2,123 No_date   12:14   62,48
01050>         [DT= 1,00]  SUM=  06:Add8       124,95     4,898 No_date   12:16   39,09
01051> 001:0203--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01052>       ROUTE PIPE      -> 06:Add8        124,95     4,898 No_date   12:16   39,09
01053>   *   [RDT= 1,00] out<- 01:Pipe4       124.95     4,880 No_date   12:16   39,09
01054>         [L/S/n=  305,/5,000/,013]
01055>         [Vmax= 7,604:Dmax=  ,793]
01056>         [Din=  ,75:Dused=  ,97]
01057> 001:0204--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01058>       ADD HYD         01:Pipe4         124,95     4,880 No_date   12:16   39,09
01059>                     + 03:Add5          146,05     4,595 No_date   12:48   35.67
01060>         [DT= 1,00]  SUM=  02:Add9       271,00     8,537 No_date   12:45   37,25
01061> 001:0205--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01062>       CALIB NASHYD      01:SWMF           6,90     1,631 No_date   12:12   65,39
01063>         [CN= 91,7: N= 3,00]
01064>         [Tp=  ,05:DT= 1,00]
01065> 001:0206--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01066>       ADD HYD         01:SWMF           6,90     1,631 No_date   12:12   65,39
01067>                     + 02:Add9          271,00     8,537 No_date   12:45   37,25
01068>         [DT= 1,00]  SUM=  03:Add10      277,80     8,776 No_date   12:14   37,94
01069> 001:0207--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01070>       ROUTE RESERVOIR -> 03:Add10       277,80     8,776 No_date   12:14   37,94
01071>         [RDT= 1,00] out<- 01:SWM1        277,80     5,227 No_date   13:49   37,93
01072>                overflow <= 02:Spillflow      ,00      ,000 No_date    0:00     ,00
01073>       [MxStoUsed=,3565E+01, TotOvfVol=,0000E+00, N-Ovf=    0, TotDurOvf=    0,hrs
01074> 001:0208--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01075>       ADD HYD         01:SWM1          277,80     5,227 No_date   13:49   37,93
01076>                     + 02:Spillflow        ,00      ,000 No_date    0:00     ,00
01077>         [DT= 1,00]  SUM=  04:Pond 25yr   277,80     5,227 No_date   13:49   37,93
01078> 001:0209--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R,V,-
01079>       SAVE HYD        04:Pond 25yr     277,80     5,227 No_date   13:49   37,93
01080>         fname :C:\AUGUST\POST\SCS\Pond25yr,001
```

```
      remark:Pond25yr
 001:0210---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:CottExt1         3.68      .411 No_date   12:19   46.60
     [CN= 81.3: N= 3.00]
     [Tp=  .21:DT= 1.00]
 001:0211---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:CottExt2         1.65      .185 No_date   12:16   39.43
     [CN= 76.2: N= 3.00]
     [Tp=  .15:DT= 1.00]
 001:0212---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       03:CottExt5          .38      .027 No_date   12:26   38.75
     [CN= 76.0: N= 3.00]
     [Tp=  .32:DT= 1.00]
 001:0213---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     05:CottB            2.49      .500 No_date   12:12   66.04
     [XIMP=.43:TIMP=.59]
     [LOSS= 2 :CN= 79.0]
     [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
     [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
 001:0214---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:CottExt1         3.68      .411 No_date   12:19   46.60
                     + 02:CottExt2         1.65      .185 No_date   12:16   39.43
                     + 03:CottExt5          .38      .027 No_date   12:26   38.75
                     + 04:Pond 25yr      277.80     5.227 No_date   13:49   37.93
                     + 05:CottB            2.49      .500 No_date   12:12   66.04
     [DT= 1.00]  SUM=  06:SWM1 Outle     286.00     5.305 No_date   13:49   38.30
 001:0215---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     02:CottA            3.26      .635 No_date   12:12   64.81
     [XIMP=.40:TIMP=.56]
     [LOSS= 2 :CN= 79.0]
     [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
     [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
 001:0216---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       03:CottExt6          .42      .057 No_date   12:13   38.75
     [CN= 76.0: N= 3.00]
     [Tp=  .09:DT= 1.00]
 001:0217---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            02:CottA            3.26      .635 No_date   12:12   64.81
                     + 03:CottExt6          .42      .057 No_date   12:13   38.75
                     + 06:SWM1 Outle     286.00     5.305 No_date   13:49   38.30
     [DT= 1.00]  SUM=  04:Sunset Out     289.68     5.343 No_date   13:49   38.60
#*******************************************************************************
#**************************50 year SCS 24HR HII Storm****************************
#*******************************************************************************
 001:0218-----------------------------------------------------------------------
    MASS STORM
     Filename = C:\AUGUST\POST\SCS\SCS24HII.mst
     Comment  = 24 hour SCS II storm mass curve
     [SDT= 1.00:SDUR=  24.00:PTOT=  96.00]
 001:0219---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:302             28.20     1.844 No_date   12:32   42.73
     [CN= 74.2: N= 3.00]
     [Tp=  .42:DT= 1.00]
 001:0220---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:302             28.20     1.844 No_date   12:32   42.73
     [RDT= 1.00] out<- 02:BCreek1         28.20     1.786 No_date   12:37   42.73
     [L/S/n=  422./1.300/.070]
     [Vmax= 1.132:Dmax=  .753]
 001:0221---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       03:201C            21.60      .861 No_date   12:44   34.08
     [CN= 65.7: N= 3.00]
     [Tp=  .59:DT= 1.00]
 001:0222---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            02:BCreek1         28.20     1.786 No_date   12:37   42.73
                     + 03:201C            21.60      .861 No_date   12:44   34.08
     [DT= 1.00]  SUM=  04:Add1            49.80     2.632 No_date   12:39   38.98
 001:0223---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 04:Add1            49.80     2.632 No_date   12:39   38.98
     [RDT= 1.00] out<- 01:Pipe1           49.80     2.631 No_date   12:39   38.98
     [L/S/n=  162./2.160/.013]
     [Vmax= 4.766:Dmax=  .730]
     [Din=  .90:Dused=  .90]
 001:0224---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:301             44.80     2.315 No_date   12:43   42.52
     [CN= 74.0: N= 3.00]
     [Tp=  .58:DT= 1.00]
 001:0225---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:301             44.80     2.315 No_date   12:43   42.52
     [RDT= 1.00] out<- 03:Overland1       44.80     1.410 No_date   13:20   42.52
     [L/S/n=  676./2.600/.070]
     [Vmax=  .225:Dmax=  .350]
 001:0226---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       04:201K             9.77      .490 No_date   12:40   39.06
     [CN= 71.0: N= 3.00]
     [Tp=  .53:DT= 1.00]
 001:0227---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            03:Overland1       44.80     1.410 No_date   13:20   42.52
                     + 04:201K             9.77      .490 No_date   12:40   39.06
     [DT= 1.00]  SUM=  02:Add2            54.57     1.720 No_date   13:10   41.90
 001:0228---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:Add2            54.57     1.720 No_date   13:10   41.90
     [RDT= 1.00] out<- 03:BCreek2         54.57     1.718 No_date   13:11   41.90
     [L/S/n=  261./2.300/.070]
     [Vmax= 1.354:Dmax=  .620]
 001:0229---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:Pipe1           49.80     2.631 No_date   12:39   38.98
                     + 03:BCreek2         54.57     1.718 No_date   13:11   41.90
     [DT= 1.00]  SUM=  02:Add3           104.37     3.966 No_date   12:46   40.50
 001:0230---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 02:Add3           104.37     3.966 No_date   12:46   40.50
     [RDT= 1.00] out<- 03:BCreek3        104.37     3.963 No_date   12:48   40.50
     [L/S/n=  204./3.000/.070]
     [Vmax= 1.897:Dmax=  .908]
 001:0231---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:201D             4.08      .109 No_date   12:37   20.57
     [CN= 46.2: N= 3.00]
     [Tp=  .48:DT= 1.00]
 001:0232---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:201E             8.13      .357 No_date   12:45   38.80
     [CN= 67.6: N= 3.00]
     [Tp=  .62:DT= 1.00]
 001:0233---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       04:201F             9.08      .525 No_date   12:52   56.67
     [CN= 81.9: N= 3.00]
     [Tp=  .75:DT= 1.00]
 001:0234---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     05:202B            16.01     2.135 No_date   12:14   51.58
     [XIMP=.35:TIMP=.50]
     [LOSS= 2 :CN= 49.0]
     [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
     [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
 001:0235---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:201D             4.08      .109 No_date   12:37   20.57
                     + 02:201E             8.13      .357 No_date   12:45   38.80
                     + 03:BCreek3        104.37     3.963 No_date   12:48   40.50
                     + 04:201F             9.08      .525 No_date   12:52   56.67
                     + 05:202B            16.01     2.135 No_date   12:14   51.58
     [DT= 1.00]  SUM=  06:Add4           141.67     5.311 No_date   12:43   42.12
 001:0236---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 06:Add4           141.67     5.311 No_date   12:43   42.12
     [RDT= 1.00] out<- 01:BCreek4        141.67     5.278 No_date   12:48   42.12
     [L/S/n=  647./3.000/.070]
     [Vmax= 2.059:Dmax= 1.061]
 001:0237---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:201G             4.38      .234 No_date   12:51   51.04
     [CN= 78.4: N= 3.00]
     [Tp=  .72:DT= 1.00]
 001:0238---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:BCreek4        141.67     5.278 No_date   12:48   42.12
                     + 02:201G             4.38      .234 No_date   12:51   51.04
     [DT= 1.00]  SUM=  03:Add5           146.05     5.511 No_date   12:48   42.39
 001:0239---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:303             20.60     1.950 No_date   12:20   41.95
     [CN= 73.6: N= 3.00]
     [Tp=  .23:DT= 1.00]
 001:0240---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:303             20.60     1.950 No_date   12:20   41.95
     [RDT= 1.00] out<- 02:Overland2       20.60      .911 No_date   12:57   41.95
     [L/S/n=  550./2.300/.070]
     [Vmax=  .208:Dmax=  .347]
 001:0241---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       04:201A            23.20     1.391 No_date   12:35   42.44
     [CN= 73.9: N= 3.00]
     [Tp=  .47:DT= 1.00]
 001:0242---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            02:Overland2       20.60      .911 No_date   12:57   41.95
                     + 04:201A            23.20     1.391 No_date   12:35   42.44
     [DT= 1.00]  SUM=  05:Add6            43.80     2.204 No_date   12:38   42.21
 001:0243---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 05:Add6            43.80     2.204 No_date   12:38   42.21
     [RDT= 1.00] out<- 08:Overland3       43.80     1.641 No_date   13:09   42.21
     [L/S/n=  500./4.000/.070]
     [Vmax=  .268:Dmax=  .344]
 001:0244---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:201J            16.40     1.053 No_date   12:34   43.99
     [CN= 74.8: N= 3.00]
     [Tp=  .45:DT= 1.00]
 001:0245---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE CHANNEL   -> 01:201J            16.40     1.053 No_date   12:34   43.99
     [RDT= 1.00] out<- 02:Overland4       16.40      .658 No_date   13:21   43.99
     [L/S/n=  656./2.400/.070]
     [Vmax=  .198:Dmax=  .336]
 001:0246---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       06:201L            22.10     1.283 No_date   12:40   45.17
     [CN= 75.5: N= 3.00]
     [Tp=  .54:DT= 1.00]
 001:0247---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            02:Overland4       16.40      .658 No_date   13:21   43.99
                     + 06:201L            22.10     1.283 No_date   12:40   45.17
     [DT= 1.00]  SUM=  05:Add7a           38.50     1.773 No_date   12:45   44.67
 001:0248---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 05:Add7a           38.50     1.773 No_date   12:45   44.67
     [RDT= 1.00] out<- 01:SitePipe        38.50     1.769 No_date   12:46   44.67
     [L/S/n=  410./1.340/.013]
     [Vmax= 3.600:Dmax=  .694]
     [Din=  .53:Dused=  .85]
 001:0249---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       04:201B            13.00      .840 No_date   12:32   43.21
     [CN= 73.1: N= 3.00]
     [Tp=  .43:DT= 1.00]
 001:0250---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     02:202E             7.80     1.612 No_date   12:13   71.21
     [XIMP=.35:TIMP=.50]
     [LOSS= 2 :CN= 79.0]
     [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
     [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=    .0]
 001:0251---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:SitePipe        38.50     1.769 No_date   12:46   44.67
                     + 02:202E             7.80     1.612 No_date   12:13   71.21
                     + 04:201B            13.00      .840 No_date   12:32   43.21
                     + 08:Overland3       43.80     1.641 No_date   13:09   42.21
     [DT= 1.00]  SUM=  07:Add7b          103.18     4.097 No_date   12:49   45.47
 001:0252---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 07:Add7b          103.18     4.097 No_date   12:49   45.47
     [RDT= 1.00] out<- 01:Pipe2          103.18     4.095 No_date   12:50   45.47
     [L/S/n=  450./1.500/.013]
     [Vmax= 4.630:Dmax=  .930]
     [Din=  .75:Dused= 1.13]
 001:0253---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:201H             9.17      .233 No_date   12:36   19.34
     [CN= 43.9: N= 3.00]
     [Tp=  .47:DT= 1.00]
 001:0254---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 02:201H             9.17      .233 No_date   12:36   19.34
     [RDT= 1.00] out<- 04:Pipe3            9.17      .232 No_date   12:39   19.34
     [L/S/n=  435./1.300/.013]
     [Vmax= 2.236:Dmax=  .255]
     [Din=  .53:Dused=  .53]
 001:0255---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB STANDHYD     05:202C            12.60     2.478 No_date   12:14   71.21
     [XIMP=.35:TIMP=.50]
     [LOSS= 2 :CN= 79.0]
     [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
     [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
 001:0256---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:Pipe2          103.18     4.095 No_date   12:50   45.47
                     + 04:Pipe3            9.17      .232 No_date   12:39   19.34
                     + 05:202C            12.60     2.478 No_date   12:14   71.21
     [DT= 1.00]  SUM=  06:Add8           124.95     5.754 No_date   12:16   46.15
 001:0257---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE PIPE      -> 06:Add8           124.95     5.754 No_date   12:16   46.15
     [RDT= 1.00] out<- 01:Pipe4          124.95     5.741 No_date   12:16   46.15
     [L/S/n=  305./5.000/.013]
     [Vmax= 7.917:Dmax=  .843]
     [Din=  .75:Dused= 1.03]
 001:0258---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:Pipe4          124.95     5.741 No_date   12:16   46.15
                     + 03:Add5           146.05     5.511 No_date   12:48   42.39
     [DT= 1.00]  SUM=  02:Add9           271.00    10.193 No_date   12:46   44.12
 001:0259---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:SWMF             6.80     1.843 No_date   12:12   74.58
     [CN= 91.7: N= 3.00]
     [Tp=  .05:DT= 1.00]
 001:0260---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:SWMF             6.80     1.843 No_date   12:12   74.58
                     + 02:Add9           271.00    10.193 No_date   12:46   44.12
     [DT= 1.00]  SUM=  03:Add10          277.80    10.362 No_date   12:15   44.87
 001:0261---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ROUTE RESERVOIR -> 03:Add10          277.80    10.362 No_date   12:15   44.87
     [RDT= 1.00] out<- 01:SWM1           270.80     5.834 No_date   13:15   44.86
           overflow <= 02:Spillflow        7.00     2.987 No_date   13:15   44.87
     [MxStoUsed=.3836E+01, TotOvfVol=.3140E+00, N-Ovf=    2, TotDurOvf=    1.hrs
 001:0262---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    ADD HYD            01:SWM1           270.80     5.834 No_date   13:15   44.86
                     + 02:Spillflow        7.00     2.987 No_date   13:15   44.87
     [DT= 1.00]  SUM=  04:Pond 50yr      277.80     8.821 No_date   13:15   44.86
 001:0263---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    SAVE HYD           04:Pond 50yr      277.80     8.821 No_date   13:15   44.86
     fname :C:\AUGUST\POST\SCS\Pond50yr.001
     remark:Pond50yr
 001:0264---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       01:CottExt1         3.68      .481 No_date   12:18   54.61
     [CN= 81.3: N= 3.00]
     [Tp=  .21:DT= 1.00]
 001:0265---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       02:CottExt2         1.65      .220 No_date   12:16   46.76
     [CN= 76.2: N= 3.00]
     [Tp=  .15:DT= 1.00]
 001:0266---------------ID:NHYD-----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
    CALIB NASHYD       03:CottExt5          .38      .032 No_date   12:25   46.04
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01351>       [CN= 76.0: N= 3.00]
01352>       [Tp=  .32:DT= 1.00]
01353> 001:0267----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01354>      CALIB STANDHYD      05:CottB          2.49     .571 No_date   12:12   74.94
01355>       [XIMP=.43:TIMP=.59]
01356>       [LOSS= 2 :CN= 79.0]
01357>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01358>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
01359> 001:0268----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01360>      ADD HYD             01:CottExt1       3.68     .481 No_date   12:18   54.61
01361>                        + 02:CottExt2       1.65     .220 No_date   12:16   46.76
01362>                        + 03:CottExt5        .38     .032 No_date   12:25   46.04
01363>                        + 04:Pond 50yr    277.80   8.821 No_date   13:15   44.86
01364>                        + 05:CottB          2.49     .571 No_date   12:12   74.94
01365>       [DT= 1.00]  SUM=  06:SWM1 Outle   286.00   8.947 No_date   13:15   45.26
01366> 001:0269----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01367>      CALIB STANDHYD      02:CottA          3.26     .727 No_date   12:12   73.66
01368>       [XIMP=.40:TIMP=.56]
01369>       [LOSS= 2 :CN= 79.0]
01370>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01371>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=    .0]
01372> 001:0270----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01373>      CALIB NASHYD        03:CottExt6        .42     .068 No_date   12:13   46.04
01374>       [CN= 76.0: N= 3.00]
01375>       [Tp=  .09:DT= 1.00]
01376> 001:0271----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01377>      ADD HYD             02:CottA          3.26     .727 No_date   12:12   73.66
01378>                        + 03:CottExt6        .42     .068 No_date   12:13   46.04
01379>                        + 06:SWM1 Outle   286.00   8.947 No_date   13:15   45.26
01380>       [DT= 1.00]  SUM=  04:Sunset Out   289.68   9.000 No_date   13:15   45.58
01381> #*************************************************************************
01382> #************************100 year SCS 24HR HII Storm**************************
01383> #*************************************************************************
01384> 001:0272----------------------------------------------------------------------
01385>      MASS STORM
01386>       Filename = C:\AUGUST\POST\SCS\SCS24HII.mst
01387>       Comment  = 24 hour SCS II storm mass curve
01388>       [SDT= 1.00:SDUR=  24.00:PTOT= 108.001
01389> 001:0273----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01390>      CALIB NASHYD        01:302           28.20    2.251 No_date   12:32   51.86
01391>       [CN= 74.2: N= 3.00]
01392>       [Tp=  .42:DT= 1.00]
01393> 001:0274----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01394>      ROUTE CHANNEL   -> 01:302           28.20    2.251 No_date   12:32   51.86
01395>       [RDT= 1.00] out<-  02:BCreek1      28.20    2.185 No_date   12:37   51.86
01396>       [L/S/n=  422./1.300/.070]
01397>       [Vmax= 1.200:Dmax=  .839]
01398> 001:0275----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01399>      CALIB NASHYD        03:201C          21.60    1.068 No_date   12:44   41.91
01400>       [CN= 65.7: N= 3.00]
01401>       [Tp=  .59:DT= 1.00]
01402> 001:0276----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01403>      ADD HYD             02:BCreek1        28.20    2.185 No_date   12:37   51.86
01404>                        + 03:201C          21.60    1.068 No_date   12:44   41.91
01405>       [DT= 1.00]  SUM=  04:Add1          49.80    3.230 No_date   12:38   47.55
01406> 001:0277----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01407>      ROUTE PIPE      -> 04:Add1          49.80    3.230 No_date   12:38   47.55
01408>  *    [RDT= 1.00] out<-  01:Pipe1        49.80    3.229 No_date   12:39   47.55
01409>       [L/S/n=  162./2.160/.013]
01410>       [Vmax= 5.003:Dmax=  .794]
01411>       [Din=  .90:Dused=  .97]
01412> 001:0278----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01413>      CALIB NASHYD        02:301           44.80    2.829 No_date   12:42   51.62
01414>       [CN= 74.0: N= 3.00]
01415>       [Tp=  .58:DT= 1.00]
01416> 001:0279----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01417>      ROUTE CHANNEL   -> 02:301           44.80    2.829 No_date   12:42   51.62
01418>       [RDT= 1.00] out<-  03:Overland1    44.80    1.749 No_date   13:18   51.62
01419>       [L/S/n=  676./2.600/.070]
01420>       [Vmax=  .234:Dmax=  .355]
01421> 001:0280----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01422>      CALIB NASHYD        04:201K           9.77     .603 No_date   12:39   47.69
01423>       [CN= 71.0: N= 3.00]
01424>       [Tp=  .53:DT= 1.00]
01425> 001:0281----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01426>      ADD HYD             03:Overland1      44.80    1.749 No_date   13:18   51.62
01427>                        + 04:201K           9.77     .603 No_date   12:39   47.69
01428>       [DT= 1.00]  SUM=  02:Add2          54.57    2.139 No_date   13:08   50.91
01429> 001:0282----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01430>      ROUTE CHANNEL   -> 02:Add2          54.57    2.139 No_date   13:08   50.91
01431>       [RDT= 1.00] out<-  03:BCreek2      54.57    2.135 No_date   13:11   50.91
01432>       [L/S/n=  261./2.300/.070]
01433>       [Vmax= 1.443:Dmax=  .698]
01434> 001:0283----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01435>      ADD HYD             01:Pipe1          49.80    3.229 No_date   12:39   47.55
01436>                        + 03:BCreek2        54.57    2.135 No_date   13:11   50.91
01437>       [DT= 1.00]  SUM=  02:Add3          104.37    4.917 No_date   12:46   49.31
01438> 001:0284----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01439>      ROUTE CHANNEL   -> 02:Add3          104.37    4.917 No_date   12:46   49.31
01440>       [RDT= 1.00] out<-  03:BCreek3      104.37    4.912 No_date   12:47   49.31
01441>       [L/S/n=  204./3.000/.070]
01442>       [Vmax= 2.014:Dmax= 1.018]
01443> 001:0285----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01444>      CALIB NASHYD        01:201D           4.08     .137 No_date   12:37   25.70
01445>       [CN= 46.2: N= 3.00]
01446>       [Tp=  .48:DT= 1.00]
01447> 001:0286----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01448>      CALIB NASHYD        02:201B           8.13     .436 No_date   12:45   47.07
01449>       [CN= 67.6: N= 3.00]
01450>       [Tp=  .62:DT= 1.00]
01451> 001:0287----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01452>      CALIB NASHYD        04:201F           9.08     .623 No_date   12:52   67.06
01453>       [CN= 81.9: N= 3.00]
01454>       [Tp=  .75:DT= 1.00]
01455> 001:0288----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01456>      CALIB STANDHYD      05:202B          16.01    2.541 No_date   12:14   60.03
01457>       [XIMP=.35:TIMP=.50]
01458>       [LOSS= 2 :CN= 49.0]
01459>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01460>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=    .0]
01461> 001:0289----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01462>      ADD HYD             01:201D           4.08     .137 No_date   12:37   25.70
01463>                        + 02:201E           8.13     .436 No_date   12:45   47.07
01464>                        + 03:BCreek3      104.37    4.912 No_date   12:47   49.31
01465>                        + 04:201F           9.08     .623 No_date   12:52   67.06
01466>                        + 05:202B          16.01    2.541 No_date   12:14   60.03
01467>       [DT= 1.00]  SUM=  06:Add4          141.67    6.506 No_date   12:44   50.85
01468> 001:0290----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01469>      ROUTE CHANNEL   -> 06:Add4          141.67    6.506 No_date   12:44   50.85
01470>       [RDT= 1.00] out<-  01:BCreek4      141.67    6.463 No_date   12:49   50.85
01471>       [L/S/n=  647./3.000/.070]
01472>       [Vmax= 2.173:Dmax= 1.180]
01473> 001:0291----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01474>      CALIB NASHYD        02:201G           4.38     .280 No_date   12:51   60.91
01475>       [CN= 78.4: N= 3.00]
01476>       [Tp=  .72:DT= 1.00]
01477> 001:0292----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01478>      ADD HYD             01:BCreek4       141.67    6.463 No_date   12:49   50.85
01479>                        + 02:201G           4.38     .280 No_date   12:51   60.91
01480>       [DT= 1.00]  SUM=  03:Add5          146.05    6.742 No_date   12:49   51.15
01481> 001:0293----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01482>      CALIB NASHYD        01:303           20.60    2.380 No_date   12:20   50.99
01483>       [CN= 73.6: N= 3.00]
01484>       [Tp=  .23:DT= 1.00]
01485> 001:0294----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01486>      ROUTE CHANNEL   -> 01:303           20.60    2.380 No_date   12:20   50.99
01487>       [RDT= 1.00] out<-  02:Overland2    20.60    1.066 No_date   12:59   50.99
01488>       [L/S/n=  550./2.300/.070]
01489>       [Vmax=  .215:Dmax=  .352]
01490> 001:0295----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01491>      CALIB NASHYD        04:201A           23.20    1.699 No_date   12:35   51.53
01492>       [CN= 73.9: N= 3.00]
01493>       [Tp=  .47:DT= 1.00]
01494> 001:0296----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01495>      ADD HYD             02:Overland2      20.60    1.066 No_date   12:59   50.99
01496>                        + 04:201A           23.20    1.699 No_date   12:35   51.53
01497>       [DT= 1.00]  SUM=  05:Add6          43.80    2.718 No_date   12:37   51.27
01498> 001:0297----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01499>      ROUTE CHANNEL   -> 05:Add6          43.80    2.718 No_date   12:37   51.27
01500>       [RDT= 1.00] out<-  08:Overland3    43.80    2.009 No_date   13:07   51.27
01501>       [L/S/n=  500./4.000/.070]
01502>       [Vmax=  .276:Dmax=  .348]
01503> 001:0298----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01504>      CALIB NASHYD        01:201J           16.40    1.281 No_date   12:34   53.24
01505>       [CN= 74.8: N= 3.00]
01506>       [Tp=  .45:DT= 1.00]
01507> 001:0299----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01508>      ROUTE CHANNEL   -> 01:201J           16.40    1.281 No_date   12:34   53.24
01509>       [RDT= 1.00] out<-  02:Overland4    16.40     .751 No_date   13:25   53.23
01510>       [L/S/n=  656./2.400/.070]
01511>       [Vmax=  .201:Dmax=  .339]
01512> 001:0300----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01513>      CALIB NASHYD        06:201L           22.10    1.557 No_date   12:39   54.54
01514>       [CN= 75.5: N= 3.00]
01515>       [Tp=  .54:DT= 1.00]
01516> 001:0301----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01517>      ADD HYD             02:Overland4      16.40     .751 No_date   13:25   53.23
01518>                        + 06:201L           22.10    1.557 No_date   12:39   54.54
01519>       [DT= 1.00]  SUM=  05:Add7a         38.50    2.134 No_date   12:44   53.98
01520> 001:0302----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01521>      ROUTE PIPE      -> 05:Add7a         38.50    2.134 No_date   12:44   53.98
01522>  *    [RDT= 1.00] out<-  01:SitePipe     38.50    2.130 No_date   12:46   53.98
01523>       [L/S/n=  410./1.340/.013]
01524>       [Vmax= 3.771:Dmax=  .744]
01525>       [Din=  .53:Dused=  .91]
01526> 001:0303----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01527>      CALIB NASHYD        04:201B           13.00    1.021 No_date   12:32   52.25
01528>       [CN= 73.1: N= 3.00]
01529>       [Tp=  .43:DT= 1.00]
01530> 001:0304----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01531>      CALIB STANDHYD      02:202E           7.88     1.881 No_date   12:13   82.27
01532>       [XIMP=.35:TIMP=.50]
01533>       [LOSS= 2 :CN= 79.0]
01534>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01535>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=    .0]
01536> 001:0305----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01537>      ADD HYD             01:SitePipe       38.50    2.130 No_date   12:46   53.98
01538>                        + 02:202E           7.88     1.881 No_date   12:13   82.27
01539>                        + 04:201B           13.00    1.021 No_date   12:32   52.25
01540>                        + 08:Overland3      43.80    2.009 No_date   13:07   51.27
01541>       [DT= 1.00]  SUM=  07:Add7b         103.18    4.998 No_date   12:47   54.77
01542> 001:0306----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01543>      ROUTE PIPE      -> 07:Add7b         103.18    4.998 No_date   12:47   54.77
01544>  *    [RDT= 1.00] out<-  01:Pipe2        103.18    4.994 No_date   12:49   54.77
01545>       [L/S/n=  450./1.500/.013]
01546>       [Vmax= 4.866:Dmax= 1.002]
01547>       [Din=  .75:Dused= 1.22]
01548> 001:0307----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01549>      CALIB NASHYD        02:201H           9.17     .293 No_date   12:36   24.18
01550>       [CN= 43.9: N= 3.00]
01551>       [Tp=  .47:DT= 1.00]
01552> 001:0308----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01553>      ROUTE PIPE      -> 02:201H           9.17     .293 No_date   12:36   24.18
01554>       [RDT= 1.00] out<-  04:Pipe3        9.17     .292 No_date   12:39   24.18
01555>       [L/S/n=  435./1.300/.013]
01556>       [Vmax= 2.365:Dmax=  .292]
01557>       [Din=  .53:Dused=  .53]
01558> 001:0309----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01559>      CALIB STANDHYD      05:202C          12.60    2.894 No_date   12:14   82.27
01560>       [XIMP=.35:TIMP=.50]
01561>       [LOSS= 2 :CN= 79.0]
01562>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01563>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=    .0]
01564> 001:0310----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01565>      ADD HYD             01:Pipe2         103.18    4.994 No_date   12:49   54.77
01566>                        + 04:Pipe3          9.17     .292 No_date   12:39   24.18
01567>                        + 05:202C          12.60    2.894 No_date   12:14   82.27
01568>       [DT= 1.00]  SUM=  06:Add8         124.95    6.827 No_date   12:16   55.30
01569> 001:0311----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01570>      ROUTE PIPE      -> 06:Add8         124.95    6.827 No_date   12:16   55.30
01571>  *    [RDT= 1.00] out<-  01:Pipe4        124.95    6.817 No_date   12:16   55.30
01572>       [L/S/n=  305./5.000/.013]
01573>       [Vmax= 8.263:Dmax=  .899]
01574>       [Din=  .75:Dused= 1.09]
01575> 001:0312----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01576>      ADD HYD             01:Pipe4         124.95    6.817 No_date   12:16   55.30
01577>                        + 03:Add5          146.05    6.742 No_date   12:49   51.15
01578>       [DT= 1.00]  SUM=  02:Add9         271.00   12.421 No_date   12:46   53.06
01579> 001:0313----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01580>      CALIB NASHYD        01:SWMF           6.80    2.107 No_date   12:12   86.15
01581>       [CN= 91.7: N= 3.00]
01582>       [Tp=  .05:DT= 1.00]
01583> 001:0314----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01584>      ADD HYD             01:SWMF           6.80    2.107 No_date   12:12   86.15
01585>                        + 02:Add9         271.00   12.421 No_date   12:46   53.06
01586>       [DT= 1.00]  SUM=  03:Add10        277.80   12.597 No_date   12:46   53.87
01587> 001:0315----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01588>      ROUTE RESERVOIR -> 03:Add10        277.80   12.597 No_date   12:46   53.87
01589>       [RDT= 1.00] out<-  01:SWM1        250.55    5.834 No_date   12:53   53.87
01590>            overflow <= 02:Spillflow     27.25    6.648 No_date   12:53   53.87
01591>       [MxStoUsed=.3836E+01, TotOvfVol=.1468E+01, N-Ovf=     3, TotDurOvf=    1.hrs
01592> 001:0316----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01593>      ADD HYD             01:SWM1          250.55    5.834 No_date   12:53   53.87
01594>                        + 02:Spillflow     27.25    6.648 No_date   12:53   53.87
01595>       [DT= 1.00]  SUM=  04:Pond 100yr    277.80   12.482 No_date   12:53   53.87
01596> 001:0317----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01597>      SAVE HYD            04:Pond 100yr     277.80   12.482 No_date   12:53   53.87
01598>       fname :C:\AUGUST\POST\SCS\Pond100yr.001
01599>       remark:Pond100yr
01600> 001:0318----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01601>      CALIB NASHYD        01:CottExt1       3.68     .572 No_date   12:18   64.99
01602>       [CN= 81.3: N= 3.00]
01603>       [Tp=  .21:DT= 1.00]
01604> 001:0319----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01605>      CALIB NASHYD        02:CottExt2       1.65     .264 No_date   12:16   56.26
01606>       [CN= 76.2: N= 3.00]
01607>       [Tp=  .15:DT= 1.00]
01608> 001:0320----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01609>      CALIB NASHYD        03:CottExt5        .38     .039 No_date   12:25   55.49
01610>       [CN= 76.0: N= 3.00]
01611>       [Tp=  .32:DT= 1.00]
01612> 001:0321----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01613>      CALIB STANDHYD      05:CottB          2.49     .671 No_date   12:12   86.20
01614>       [XIMP=.43:TIMP=.59]
01615>       [LOSS= 2 :CN= 79.0]
01616>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=    .0]
01617>       [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=    .0]
01618> 001:0322----------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01619>      ADD HYD             01:CottExt1       3.68     .572 No_date   12:18   64.99
01620>                        + 02:CottExt2       1.65     .264 No_date   12:16   56.26
```

```
                    +  03:CottExt5          .38       .039 No_date    12:25   55.49
                    +  04:Pond 100yr    277.80    12.482 No_date    12:53   53.87
                    +  05:CottB           2.49       .671 No_date    12:12   86.20
      [DT= 1.00]  SUM=  06:SWM1 Outle   286.00    12.730 No_date    12:53   54.31
001:0323--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      02:CottA          3.26       .844 No_date    12:12   84.85
      [XIMP=.40:TIMP=.56]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
001:0324--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        03:CottExt6       .42       .082 No_date    12:13   55.49
      [CN= 76.0: N= 3.00]
      [Tp=  .09:DT= 1.00]
001:0325--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:CottA          3.26       .844 No_date    12:12   84.85
                    +  03:CottExt6       .42       .082 No_date    12:13   55.49
                    +  06:SWM1 Outle   286.00    12.730 No_date    12:53   54.31
      [DT= 1.00]  SUM=  04:Sunset Out   289.68    12.821 No_date    12:53   54.66
#*************************************************************************
#*************************Regional Timmins Storm**************************
#*************************************************************************
001:0326--------------------------------------------------------------------
     READ STORM
      Filename = tim.stm
      Comment =
      [SDT=60.00:SDUR=  12.00:PTOT= 193.00]
001:0327--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:302           28.20     2.337 No_date    7:08  123.80
      [CN= 74.2: N= 3.00]
      [Tp=  .42:DT= 1.00]
001:0328--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:302           28.20     2.337 No_date    7:08  123.80
      [CN= 74.2: N= 3.00]
      [Tp=  .42:DT= 1.00]
001:0329--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:302           28.20     2.337 No_date    7:08  123.80
      [RDT= 1.00] out<- 02:BCreek1      28.20     2.312 No_date    7:12  123.80
      [L/S/n=  422./1.300/.070]
      {Vmax= 1.212:Dmax=  .856}
001:0330--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        03:201C          21.60     1.371 No_date    7:18  106.43
      [CN= 65.7: N= 3.00]
      [Tp=  .59:DT= 1.00]
001:0331--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:BCreek1        28.20     2.312 No_date    7:12  123.80
                    +  03:201C          21.60     1.371 No_date    7:18  106.43
      [DT= 1.00]  SUM=  04:Add1         49.80     3.673 No_date    7:13  116.27
001:0332--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 04:Add1          49.80     3.673 No_date    7:13  116.27
 *    [RDT= 1.00] out<- 01:Pipe1        49.80     3.673 No_date    7:14  116.27
      [L/S/n=  162./2.160/.013]
      {Vmax= 5.166:Dmax=  .834}
      [Din=  .90:Dused= 1.02]
001:0333--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:301           44.80     3.360 No_date    7:16  123.39
      [CN= 74.0: N= 3.00]
      [Tp=  .58:DT= 1.00]
001:0334--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:301           44.80     3.360 No_date    7:16  123.39
      [RDT= 1.00] out<- 03:Overland1    44.80     2.637 No_date    7:52  123.39
      [L/S/n=  676./2.600/.070]
      {Vmax=  .244:Dmax=  .361}
001:0335--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201K           9.77       .713 No_date    7:14  116.89
      [CN= 71.0: N= 3.00]
      [Tp=  .53:DT= 1.00]
001:0336--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             03:Overland1      44.80     2.637 No_date    7:52  123.39
                    +  04:201K          9.77       .713 No_date    7:14  116.89
      [DT= 1.00]  SUM=  02:Add2         54.57     3.211 No_date    7:43  122.22
001:0337--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:Add2          54.57     3.211 No_date    7:43  122.22
      [RDT= 1.00] out<- 03:BCreek2      54.57     3.209 No_date    7:45  122.22
      [L/S/n=  261./2.300/.070]
      {Vmax= 1.625:Dmax=  .870}
001:0338--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe1          49.80     3.673 No_date    7:14  116.27
                    +  03:BCreek2       54.57     3.209 No_date    7:45  122.22
      [DT= 1.00]  SUM=  02:Add3         104.37    6.590 No_date    7:22  119.38
001:0339--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 02:Add3          104.37    6.590 No_date    7:22  119.38
      [RDT= 1.00] out<- 03:BCreek3      104.37    6.586 No_date    7:23  119.38
      [L/S/n=  204./3.000/.070]
      {Vmax= 2.180:Dmax= 1.188}
001:0340--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:201D           4.08       .179 No_date    7:13   71.79
      [CN= 46.2: N= 3.00]
      [Tp=  .48:DT= 1.00]
001:0341--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201E           8.13       .539 No_date    7:19  113.95
      [CN= 67.6: N= 3.00]
      [Tp=  .62:DT= 1.00]
001:0342--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201F           9.08       .718 No_date    7:26  145.20
      [CN= 81.9: N= 3.00]
      [Tp=  .75:DT= 1.00]
001:0343--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:202B          16.01     1.331 No_date    7:00  126.10
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 49.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 327.:MNI=.013:SCI=   .0]
001:0344--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:201D           4.08       .179 No_date    7:13   71.79
                    +  02:201E          8.13       .539 No_date    7:19  113.95
                    +  03:BCreek3     104.37    6.586 No_date    7:23  119.38
                    +  04:201F          9.08       .718 No_date    7:26  145.20
                    +  05:202B         16.01     1.331 No_date    7:00  126.10
      [DT= 1.00]  SUM=  06:Add4         141.67    8.869 No_date    7:18  120.11
001:0345--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 06:Add4          141.67    8.869 No_date    7:18  120.11
      [RDT= 1.00] out<- 01:BCreek4      141.67    8.847 No_date    7:21  120.11
      [L/S/n=  647./3.000/.070]
      {Vmax= 2.356:Dmax= 1.386}
001:0346--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201G           4.38       .332 No_date    7:24  136.54
      [CN= 78.4: N= 3.00]
      [Tp=  .72:DT= 1.00]
001:0347--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:BCreek4        141.67    8.847 No_date    7:21  120.11
                    +  02:201G          4.38       .332 No_date    7:24  136.54
      [DT= 1.00]  SUM=  03:Add5         146.05    9.178 No_date    7:22  120.61
001:0348--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:303           20.60     1.845 No_date    7:02  122.41
      [CN= 73.6: N= 3.00]
      [Tp=  .23:DT= 1.00]
001:0349--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:303           20.60     1.845 No_date    7:02  122.41
      [RDT= 1.00] out<- 02:Overland2    20.60     1.343 No_date    7:17  122.41
      [L/S/n=  550./2.300/.070]
      {Vmax=  .206:Dmax=  .346}
001:0350--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201A          23.20     1.857 No_date    7:10  123.22
      [CN= 73.9: N= 3.00]
      [Tp= 1.47:DT= 1.00]
001:0351--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:Overland2      20.60     1.343 No_date    7:17  122.41
                    +  04:201A          23.20     1.857 No_date    7:10  123.22
      [DT= 1.00]  SUM=  05:Add6         43.80     3.187 No_date    7:13  122.84
001:0352--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 05:Add6          43.80     3.187 No_date    7:13  122.84
      [RDT= 1.00] out<- 08:Overland3    43.80     2.746 No_date    7:36  122.84
      [L/S/n=  500./4.000/.070]
      {Vmax=  .284:Dmax=  .352}
001:0353--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:201J          16.40     1.354 No_date    7:09  125.74
      [CN= 74.8: N= 3.00]
      [Tp=  .45:DT= 1.00]
001:0354--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE CHANNEL   -> 01:201J          16.40     1.354 No_date    7:09  125.74
      [RDT= 1.00] out<- 02:Overland4    16.40      .942 No_date    7:49  125.74
      [L/S/n=  656./2.400/.070]
      {Vmax=  .202:Dmax=  .340}
001:0355--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        06:201L          22.10     1.752 No_date    7:14  127.66
      [CN= 75.5: N= 3.00]
      [Tp=  .54:DT= 1.00]
001:0356--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             02:Overland4      16.40      .942 No_date    7:49  125.74
                    +  06:201L          22.10     1.752 No_date    7:14  127.66
      [DT= 1.00]  SUM=  05:Add7a        38.50     2.574 No_date    7:21  126.85
001:0357--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 05:Add7a         38.50     2.574 No_date    7:21  126.85
 *    [RDT= 1.00] out<- 01:SitePipe     38.50     2.572 No_date    7:23  126.85
      [L/S/n=  410./1.340/.013]
      {Vmax= 3.952:Dmax=  .798}
      [Din=  .53:Dused=  .97]
001:0358--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        04:201B          13.00     1.060 No_date    7:08  123.55
      [CN= 73.1: N= 3.00]
      [Tp=  .43:DT= 1.00]
001:0359--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      02:202E           7.88       .865 No_date    7:00  163.31
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 229.:MNI=.013:SCI=   .0]
001:0360--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SitePipe       38.50     2.572 No_date    7:23  126.85
                    +  02:202E          7.88       .865 No_date    7:00  163.31
                    +  04:201B          13.00     1.060 No_date    7:08  123.55
                    +  08:Overland3     43.80     2.746 No_date    7:36  122.84
      [DT= 1.00]  SUM=  07:Add7b        103.18    6.700 No_date    7:21  127.51
001:0361--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 07:Add7b         103.18    6.700 No_date    7:21  127.51
 *    [RDT= 1.00] out<- 01:Pipe2        103.18    6.698 No_date    7:22  127.51
      [L/S/n=  450./1.500/.013]
      {Vmax= 5.236:Dmax= 1.118}
      [Din=  .75:Dused= 1.36]
001:0362--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:201H           9.17       .383 No_date    7:12   68.06
      [CN= 43.9: N= 3.00]
      [Tp=  .47:DT= 1.00]
001:0363--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 02:201H          9.17       .383 No_date    7:12   68.06
      [RDT= 1.00] out<- 04:Pipe3        9.17       .382 No_date    7:15   68.06
      [L/S/n=  435./1.300/.013]
      [Vmax= 2.505:Dmax=  .349]
      [Din=  .53:Dused=  .53]
001:0364--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:202C          12.60     1.379 No_date    7:00  163.31
      [XIMP=.35:TIMP=.50]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 290.:MNI=.013:SCI=   .0]
001:0365--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe2          103.18    6.698 No_date    7:22  127.51
                    +  04:Pipe3         9.17       .382 No_date    7:15   68.06
                    +  05:202C         12.60     1.379 No_date    7:00  163.31
      [DT= 1.00]  SUM=  06:Add8         124.95    8.130 No_date    7:07  126.76
001:0366--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE PIPE      -> 06:Add8          124.95    8.130 No_date    7:07  126.76
 *    [RDT= 1.00] out<- 01:Pipe4        124.95    8.128 No_date    7:08  126.76
      [L/S/n=  305./5.000/.013]
      {Vmax= 8.632:Dmax=  .959}
      [Din=  .75:Dused= 1.17]
001:0367--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:Pipe4          124.95    8.128 No_date    7:08  126.76
                    +  03:Add5         146.05    9.178 No_date    7:22  120.61
      [DT= 1.00]  SUM=  02:Add9         271.00   17.138 No_date    7:15  123.44
001:0368--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:SWMF           6.80       .788 No_date    7:00  169.50
      [CN= 91.7: N= 3.00]
      [Tp=  .05:DT= 1.00]
001:0369--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SWMF           6.80       .788 No_date    7:00  169.50
                    +  02:Add9         271.00   17.138 No_date    7:15  123.44
      [DT= 1.00]  SUM=  03:Add10        277.80   17.507 No_date    7:15  124.57
001:0370--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ROUTE RESERVOIR -> 03:Add10         277.80   17.507 No_date    7:15  124.57
      [RDT= 1.00] out<- 01:SWM1         170.85    5.834 No_date    6:39  124.57
                 overflow <= 02:Spillflow   106.95   11.672 No_date    7:16  124.57
     {MxStoUsed=1.3836E+01, TotOvfVol=1.1332E+02, N-Ovf=    2, TotDurOvf=    6.hrs
001:0371--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:SWM1           170.85    5.834 No_date    6:39  124.57
                    +  02:Spillflow   106.95   11.672 No_date    7:16  124.57
      [DT= 1.00]  SUM=  04:Pond Reg     277.80   17.506 No_date    7:16  124.56
001:0372--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     SAVE HYD            04:Pond Reg       277.80   17.506 No_date    7:16  124.56
      fname :C:\AUGUST\POST\SCS\PondReg.001
      remark:PondReg
001:0373--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        01:CottExt1       3.68       .377 No_date    7:01  142.52
      [CN= 81.3: N= 3.00]
      [Tp=  .21:DT= 1.00]
001:0374--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        02:CottExt2       1.65       .158 No_date    7:00  130.04
      [CN= 76.2: N= 3.00]
      [Tp=  .15:DT= 1.00]
001:0375--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB NASHYD        03:CottExt5        .38       .034 No_date    7:04  129.05
      [CN= 76.0: N= 3.00]
      [Tp=  .32:DT= 1.00]
001:0376--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      05:CottB          2.49       .279 No_date    7:00  168.06
      [XIMP=.43:TIMP=.59]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
      [Impervious   area: IAimp= 2.00:SLPI= .50:LGI= 129.:MNI=.013:SCI=   .0]
001:0377--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     ADD HYD             01:CottExt1       3.68       .377 No_date    7:01  142.52
                    +  02:CottExt2       1.65       .158 No_date    7:00  130.04
                    +  03:CottExt5        .38       .034 No_date    7:04  129.05
                    +  04:Pond Reg     277.80   17.506 No_date    7:16  124.56
                    +  05:CottB          2.49       .279 No_date    7:00  168.06
      [DT= 1.00]  SUM=  06:SWM1 Outle   286.00   18.123 No_date    7:11  125.21
001:0378--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
     CALIB STANDHYD      02:CottA          3.26       .364 No_date    7:00  166.45
      [XIMP=.40:TIMP=.56]
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01891>       [LOSS= 2 :CN= 79.0]
01892>       [Pervious    area: IAper= 5.00:SLPP=2.00:LGP=  13.:MNP=.240:SCP=   .0]
01893>       [Impervious  area: IAimp= 2.00:SLPI= .50:LGI= 147.:MNI=.013:SCI=   .0]
01894>  001:0379--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01895>      CALIB NASHYD       03:CottExt6         .42     .040 No_date    7:00  129.05
01896>       [CN= 76.0: N= 3.00]
01897>       [Tp=  .09:DT= 1.00]
01898>  001:0380--------------ID:NHYD----------AREA----QPEAK-TpeakDate_hh:mm----R.V.-
01899>      ADD HYD            02:CottA           3.26     .364 No_date    7:00  166.45
01900>                       + 03:CottExt6         .42     .040 No_date    7:00  129.05
01901>                       + 06:SWM1 Outle   286.00   18.123 No_date    7:11  125.21
01902>       [DT= 1.00]  SUM=  04:Sunset Out   289.68   18.405 No_date    7:09  125.68
01903>  001:0381--------------------------------------------------------------------------
01904>      FINISH
01905>  --------------------------------------------------------------------------------
01906>  ********************************************************************************
01907>      WARNINGS / ERRORS / NOTES
01908>      -------------------------
01909>  001:0086 ROUTE PIPE      ->
01910>       *** WARNING: New pipe size used for routing.
01911>  001:0090 ROUTE PIPE      ->
01912>       *** WARNING: New pipe size used for routing.
01913>  001:0095 ROUTE PIPE      ->
01914>       *** WARNING: New pipe size used for routing.
01915>  001:0140 ROUTE PIPE      ->
01916>       *** WARNING: New pipe size used for routing.
01917>  001:0144 ROUTE PIPE      ->
01918>       *** WARNING: New pipe size used for routing.
01919>  001:0149 ROUTE PIPE      ->
01920>       *** WARNING: New pipe size used for routing.
01921>  001:0194 ROUTE PIPE      ->
01922>       *** WARNING: New pipe size used for routing.
01923>  001:0198 ROUTE PIPE      ->
01924>       *** WARNING: New pipe size used for routing.
01925>  001:0203 ROUTE PIPE      ->
01926>       *** WARNING: New pipe size used for routing.
01927>  001:0248 ROUTE PIPE      ->
01928>       *** WARNING: New pipe size used for routing.
01929>  001:0252 ROUTE PIPE      ->
01930>       *** WARNING: New pipe size used for routing.
01931>  001:0257 ROUTE PIPE      ->
01932>       *** WARNING: New pipe size used for routing.
01933>  001:0277 ROUTE PIPE      ->
01934>       *** WARNING: New pipe size used for routing.
01935>  001:0302 ROUTE PIPE      ->
01936>       *** WARNING: New pipe size used for routing.
01937>  001:0306 ROUTE PIPE      ->
01938>       *** WARNING: New pipe size used for routing.
01939>  001:0311 ROUTE PIPE      ->
01940>       *** WARNING: New pipe size used for routing.
01941>  001:0332 ROUTE PIPE      ->
01942>       *** WARNING: New pipe size used for routing.
01943>  001:0357 ROUTE PIPE      ->
01944>       *** WARNING: New pipe size used for routing.
01945>  001:0361 ROUTE PIPE      ->
01946>       *** WARNING: New pipe size used for routing.
01947>  001:0366 ROUTE PIPE      ->
01948>       *** WARNING: New pipe size used for routing.
01949>    Simulation ended on 2018-08-09      at 16:07:09
01950>  ********************************************************************************
01951>
01952>
```

Culvert Calculator Report
Sunset Boulevard Cross-Culvert - 25yr CHI

Solve For: Discharge

Culvert Summary					
Allowable HW Elevation	182.59	m	Headwater Depth/Height	1.27	
Computed Headwater Elevation	182.59	m	Discharge	5.7073	m³/s
Inlet Control HW Elev.	182.51	m	Tailwater Elevation	181.50	m
Outlet Control HW Elev.	182.59	m	Control Type	Outlet Control	

Grades					
Upstream Invert	180.68	m	Downstream Invert	180.54	m
Length	26.00	m	Constructed Slope	0.005385	m/m

Hydraulic Profile					
Profile	M2		Depth, Downstream	1.00	m
Slope Type	Mild		Normal Depth	N/A	m
Flow Regime	Subcritical		Critical Depth	1.00	m
Velocity Downstream	3.16	m/s	Critical Slope	0.014163	m/m

Section					
Section Shape	Arch		Mannings Coefficient	0.024	
Section Material	CMP		Span	2.06	m
Section Size	2060 x 1500 mm		Rise	1.50	m
Number Sections	1				

Outlet Control Properties					
Outlet Control HW Elev.	182.59	m	Upstream Velocity Head	0.32	m
Ke	0.90		Entrance Loss	0.29	m

Inlet Control Properties					
Inlet Control HW Elev.	182.51	m	Flow Control	N/A	
Inlet Type	Thin wall projecting		Area Full	2.4	m²
K	0.03400		HDS 5 Chart	34	
M	1.50000		HDS 5 Scale	3	
C	0.04960		Equation Form	1	
Y	0.57000				

Culvert Calculator Report
Sunset Boulevard Cross-Culvert - 100yr CHI

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	182.59 m	Headwater Depth/Height	1.27
Computed Headwater Elevation	182.59 m	Discharge	5.4814 m³/s
Inlet Control HW Elev.	182.45 m	Tailwater Elevation	181.85 m
Outlet Control HW Elev.	182.59 m	Control Type	Outlet Control

Grades			
Upstream Invert	180.68 m	Downstream Invert	180.54 m
Length	26.00 m	Constructed Slope	0.005385 m/m

Hydraulic Profile			
Profile	M2	Depth, Downstream	1.31 m
Slope Type	Mild	Normal Depth	N/A m
Flow Regime	Subcritical	Critical Depth	0.97 m
Velocity Downstream	2.40 m/s	Critical Slope	0.013794 m/m

Section			
Section Shape	Arch	Mannings Coefficient	0.024
Section Material	CMP	Span	2.06 m
Section Size	2060 x 1500 mm	Rise	1.50 m
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	182.59 m	Upstream Velocity Head	0.27 m
Ke	0.90	Entrance Loss	0.24 m

Inlet Control Properties			
Inlet Control HW Elev.	182.45 m	Flow Control	N/A
Inlet Type	Thin wall projecting	Area Full	2.4 m²
K	0.03400	HDS 5 Chart	34
M	1.50000	HDS 5 Scale	3
C	0.04960	Equation Form	1
Y	0.57000		

Culvert Calculator Report
Sunset Boulevard Cross-Culvert - Regional

Solve For: Discharge

Culvert Summary					
Allowable HW Elevation	182.59	m	Headwater Depth/Height	1.27	
Computed Headwater Elevation	182.59	m	Discharge	5.0026	m³/s
Inlet Control HW Elev.	182.32	m	Tailwater Elevation	182.00	m
Outlet Control HW Elev.	182.59	m	Control Type	Outlet Control	

Grades					
Upstream Invert	180.68	m	Downstream Invert	180.54	m
Length	26.00	m	Constructed Slope	0.005385	m/m

Hydraulic Profile					
Profile	CompositeM2PressureProfile		Depth, Downstream	1.46	m
Slope Type	Mild		Normal Depth	N/A	m
Flow Regime	Subcritical		Critical Depth	0.92	m
Velocity Downstream	2.06	m/s	Critical Slope	0.013074	m/m

Section					
Section Shape	Arch		Mannings Coefficient	0.024	
Section Material	CMP		Span	2.06	m
Section Size	2060 x 1500 mm		Rise	1.50	m
Number Sections	1				

Outlet Control Properties					
Outlet Control HW Elev.	182.59	m	Upstream Velocity Head	0.21	m
Ke	0.90		Entrance Loss	0.19	m

Inlet Control Properties					
Inlet Control HW Elev.	182.32	m	Flow Control	N/A	
Inlet Type	Thin wall projecting		Area Full	2.4	m²
K	0.03400		HDS 5 Chart	34	
M	1.50000		HDS 5 Scale	3	
C	0.04960		Equation Form	1	
Y	0.57000				

Worksheet for Section A-A: Boulder Creek Regional

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.02550	m/m
Discharge	18.41	m³/s

Section Definitions

Station (m)	Elevation (m)
0+00	185.10
0+05	184.07
0+08	182.51
0+11	182.61
0+14	184.32
0+17	184.63

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 185.10)	(0+17, 184.63)	0.070

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	1.51	m
Elevation Range	182.51 to 185.10 m	
Flow Area	8.61	m²
Wetted Perimeter	9.49	m
Hydraulic Radius	0.91	m
Top Width	8.79	m
Normal Depth	1.51	m

Worksheet for Section A-A: Boulder Creek Regional

Results

Critical Depth		1.25	m
Critical Slope		0.05620	m/m
Velocity		2.14	m/s
Velocity Head		0.23	m
Specific Energy		1.74	m
Froude Number		0.69	
Flow Type	Subcritical		

GVF Input Data

Downstream Depth	0.00	m
Length	0.00	m
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	m
Profile Description		
Profile Headloss	0.00	m
Downstream Velocity	Infinity	m/s
Upstream Velocity	Infinity	m/s
Normal Depth	1.51	m
Critical Depth	1.25	m
Channel Slope	0.02550	m/m
Critical Slope	0.05620	m/m

Cross Section for Section A-A: Boulder Creek Regional

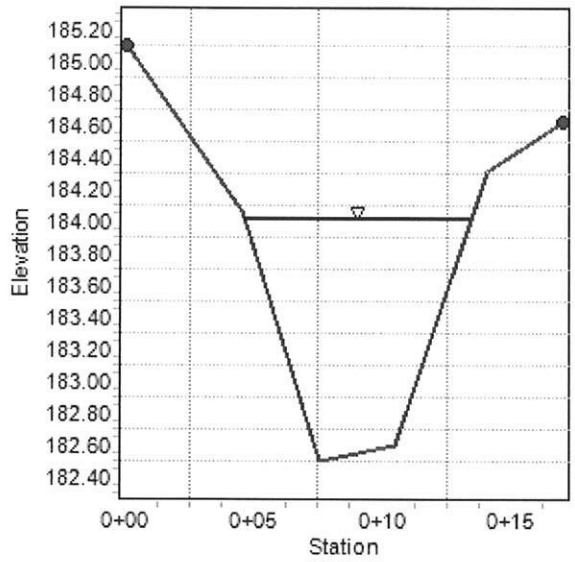
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.02550	m/m
Normal Depth	1.51	m
Discharge	18.41	m³/s

Cross Section Image



Worksheet for Section B-B: Boulder Creek Regional

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.01730	m/m
Discharge	18.41	m³/s

Section Definitions

Station (m)	Elevation (m)
0+00	183.81
0+05	183.03
0+08	181.48
0+14	183.62
0+18	184.04

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 183.81)	(0+18, 184.04)	0.070

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	2.07	m
Elevation Range	181.48 to 184.04 m	
Flow Area	10.83	m²
Wetted Perimeter	12.59	m
Hydraulic Radius	0.86	m
Top Width	11.83	m
Normal Depth	2.07	m
Critical Depth	1.65	m

Worksheet for Section B-B: Boulder Creek Regional

Results

Critical Slope		0.05737	m/m
Velocity		1.70	m/s
Velocity Head		0.15	m
Specific Energy		2.22	m
Froude Number		0.57	
Flow Type	Subcritical		

GVF Input Data

Downstream Depth	0.00	m
Length	0.00	m
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	m
Profile Description		
Profile Headloss	0.00	m
Downstream Velocity	Infinity	m/s
Upstream Velocity	Infinity	m/s
Normal Depth	2.07	m
Critical Depth	1.65	m
Channel Slope	0.01730	m/m
Critical Slope	0.05737	m/m

Cross Section for Section B-B: Boulder Creek Regional

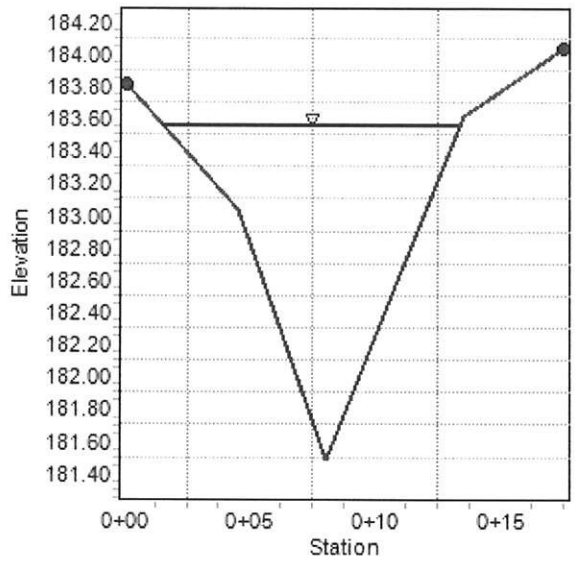
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.01730	m/m
Normal Depth	2.07	m
Discharge	18.41	m³/s

Cross Section Image



Worksheet for Section C-C: Boulder Creek Regional

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.02880	m/m
Discharge	18.41	m³/s

Section Definitions

Station (m)	Elevation (m)
0+00	183.30
0+05	182.33
0+09	180.91
0+14	182.85

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 183.30)	(0+14, 182.85)	0.070

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	1.78	m
Elevation Range	180.91 to 183.30 m	
Flow Area	8.78	m²
Wetted Perimeter	10.91	m
Hydraulic Radius	0.80	m
Top Width	10.29	m
Normal Depth	1.78	m
Critical Depth	1.56	m
Critical Slope	0.05703	m/m

Worksheet for Section C-C: Boulder Creek Regional

Results

Velocity		2.10	m/s
Velocity Head		0.22	m
Specific Energy		2.00	m
Froude Number		0.72	
Flow Type	Subcritical		

GVF Input Data

Downstream Depth	0.00	m
Length	0.00	m
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	m
Profile Description		
Profile Headloss	0.00	m
Downstream Velocity	Infinity	m/s
Upstream Velocity	Infinity	m/s
Normal Depth	1.78	m
Critical Depth	1.56	m
Channel Slope	0.02880	m/m
Critical Slope	0.05703	m/m

Cross Section for Section C-C: Boulder Creek Regional

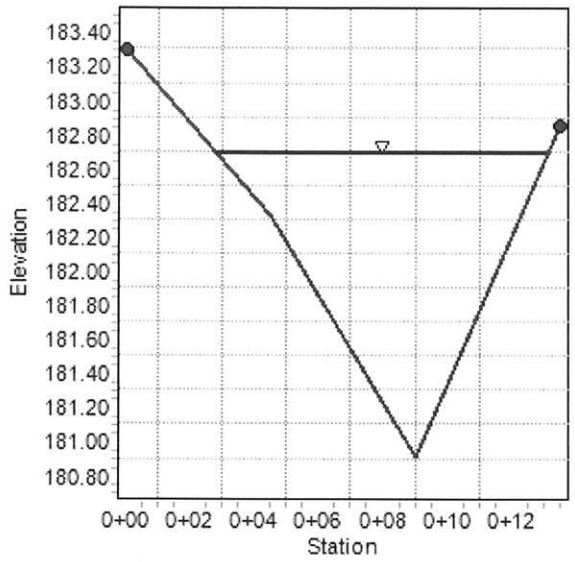
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.02880	m/m
Normal Depth	1.78	m
Discharge	18.41	m³/s

Cross Section Image



Worksheet for Section D-D: Boulder Creek 25yr CHI

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.04400	m/m
Discharge	5.81	m³/s

Section Definitions

Station (m)	Elevation (m)
0+00	181.99
0+06	180.54
0+10	181.74

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 181.99)	(0+10, 181.74)	0.070

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	0.96	m
Elevation Range	180.54 to 181.99 m	
Flow Area	3.26	m²
Wetted Perimeter	7.08	m
Hydraulic Radius	0.46	m
Top Width	6.81	m
Normal Depth	0.96	m
Critical Depth	0.89	m
Critical Slope	0.06634	m/m
Velocity	1.79	m/s

Worksheet for Section D-D: Boulder Creek 25yr CHI

Results

Velocity Head		0.16	m
Specific Energy		1.12	m
Froude Number		0.82	
Flow Type	Subcritical		

GVF Input Data

Downstream Depth	0.00	m
Length	0.00	m
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	m
Profile Description		
Profile Headloss	0.00	m
Downstream Velocity	Infinity	m/s
Upstream Velocity	Infinity	m/s
Normal Depth	0.96	m
Critical Depth	0.89	m
Channel Slope	0.04400	m/m
Critical Slope	0.06634	m/m

Cross Section for Section D-D: Boulder Creek 25yr CHI

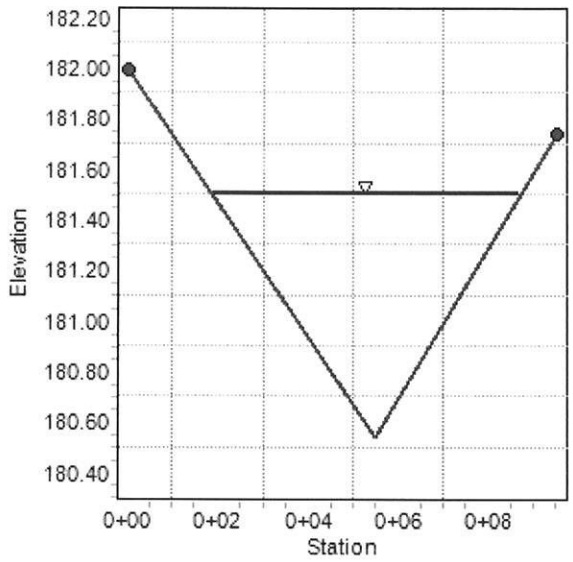
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.04400	m/m
Normal Depth	0.96	m
Discharge	5.81	m³/s

Cross Section Image



Worksheet for Section D-D: Boulder Creek 100yr CHI

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.04400	m/m
Discharge	13.59	m³/s

Section Definitions

Station (m)	Elevation (m)
0+00	181.99
0+06	180.54
0+10	181.74

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 181.99)	(0+10, 181.74)	0.070

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	1.31	m
Elevation Range	180.54 to 181.99 m	
Flow Area	6.07	m²
Wetted Perimeter	9.41	m
Hydraulic Radius	0.65	m
Top Width	8.96	m
Normal Depth	1.31	m
Critical Depth	1.24	m
Critical Slope	0.05934	m/m
Velocity	2.24	m/s

Worksheet for Section D-D: Boulder Creek 100yr CHI

Results

Velocity Head		0.26	m
Specific Energy		1.56	m
Froude Number		0.87	
Flow Type	Subcritical		

GVF Input Data

Downstream Depth	0.00	m
Length	0.00	m
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	m
Profile Description		
Profile Headloss	0.00	m
Downstream Velocity	Infinity	m/s
Upstream Velocity	Infinity	m/s
Normal Depth	1.31	m
Critical Depth	1.24	m
Channel Slope	0.04400	m/m
Critical Slope	0.05934	m/m

Cross Section for Section D-D: Boulder Creek 100yr CHI

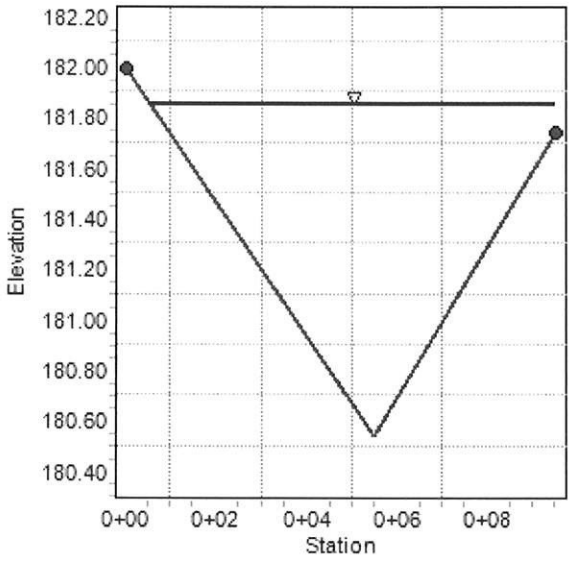
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.04400	m/m
Normal Depth	1.31	m
Discharge	13.59	m³/s

Cross Section Image



Worksheet for Section D-D: Boulder Creek Regional

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.04400	m/m
Discharge	18.41	m³/s

Section Definitions

Station (m)	Elevation (m)
0+00	181.99
0+06	180.54
0+10	181.74

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 181.99)	(0+10, 181.74)	0.070

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	1.46	m
Elevation Range	180.54 to 181.99 m	
Flow Area	7.50	m²
Wetted Perimeter	10.14	m
Hydraulic Radius	0.74	m
Top Width	9.50	m
Normal Depth	1.46	m
Critical Depth	1.39	m
Critical Slope	0.05742	m/m
Velocity	2.45	m/s

Worksheet for Section D-D: Boulder Creek Regional

Results

Velocity Head		0.31	m
Specific Energy		1.77	m
Froude Number		0.88	
Flow Type	Subcritical		

GVF Input Data

Downstream Depth	0.00	m
Length	0.00	m
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	m
Profile Description		
Profile Headloss	0.00	m
Downstream Velocity	Infinity	m/s
Upstream Velocity	Infinity	m/s
Normal Depth	1.46	m
Critical Depth	1.39	m
Channel Slope	0.04400	m/m
Critical Slope	0.05742	m/m

Cross Section for Section D-D: Boulder Creek Regional

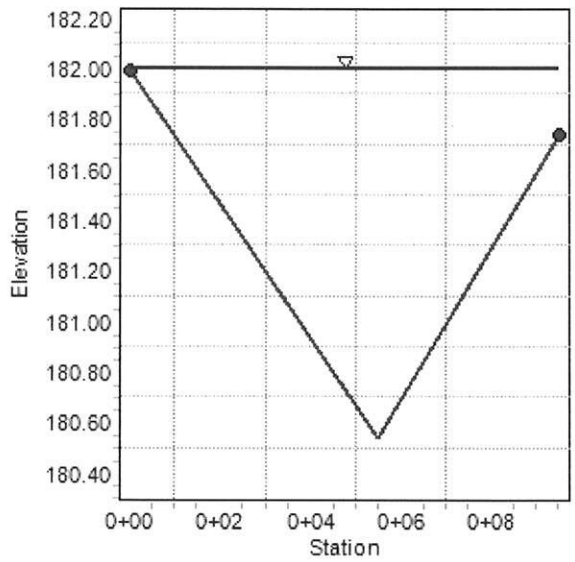
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.04400	m/m
Normal Depth	1.46	m
Discharge	18.41	m³/s

Cross Section Image



Worksheet for Sunset Boulevard 100yr CHI

Project Description

Solve For	Headwater Elevation

Input Data

Discharge	8.11	m³/s	Total Peak Flow - Culvert Conveyance (100yr CHI) 13.59 m³/s - 5.48 m³/s
Crest Elevation	182.59	m	Low Point Sunset Boulevard
Tailwater Elevation	182.04	m	Water Level Downstream of Culvert
Crest Surface Type	Paved		
Crest Breadth	9.00	m	Width of Sunset Boulevard (Asphalt)
Crest Length	106.00	m	Overflow Length along Sunset Boulevard

Results

Headwater Elevation	182.72	m	Elevation / Depth of Overflow above Sunset Boulevard
Headwater Height Above Crest	0.13	m	
Tailwater Height Above Crest	-0.55	m	
Weir Coefficient	1.65	SI	
Submergence Factor	1.00		
Adjusted Weir Coefficient	1.65	SI	
Flow Area	13.65	m²	
Velocity	0.59	m/s	Velocity of Overflow above Sunset Boulevard.
Wetted Perimeter	106.26	m	
Top Width	106.00	m	

Worksheet for Sunset Boulevard Regional

Project Description

Solve For	Headwater Elevation

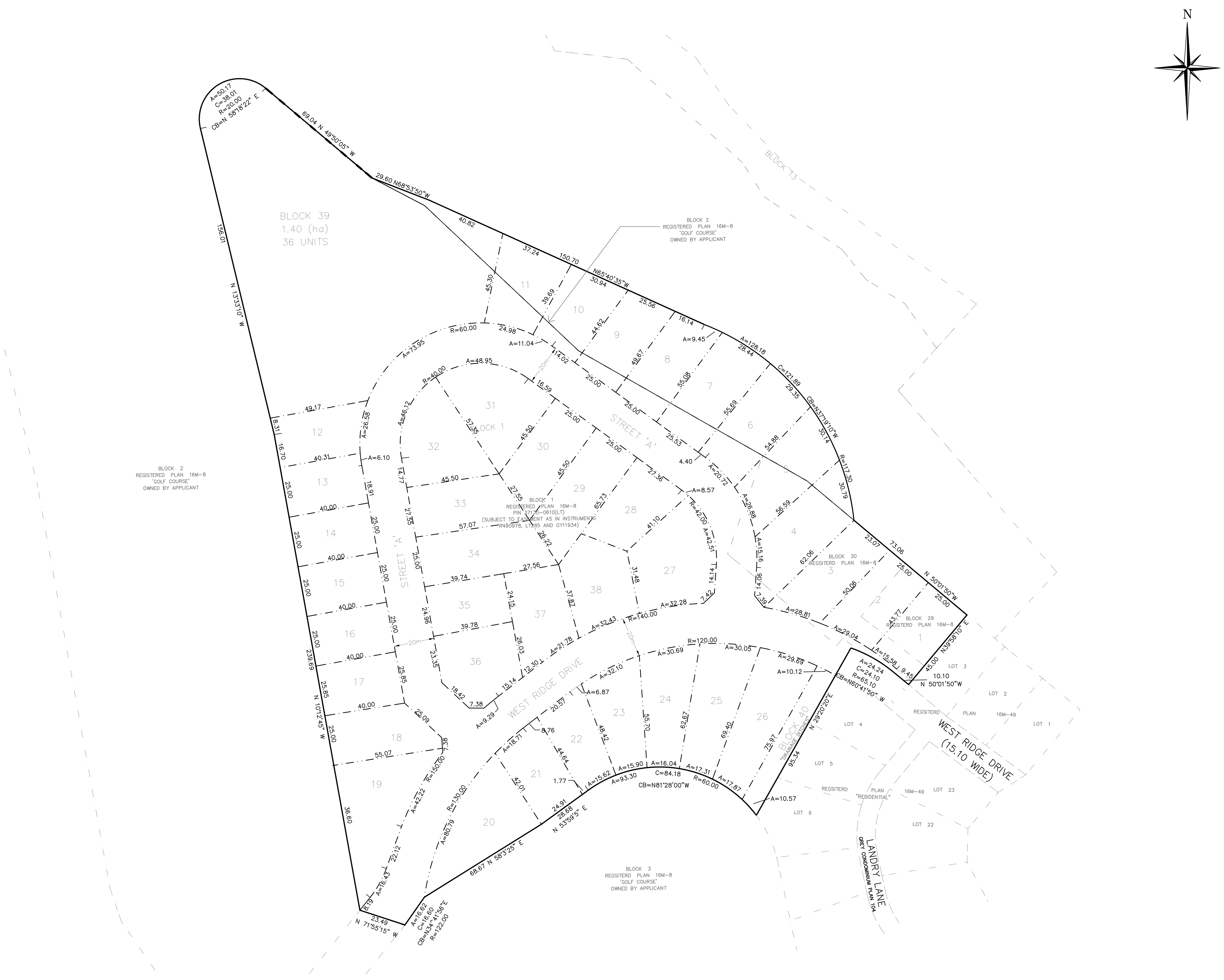
Input Data

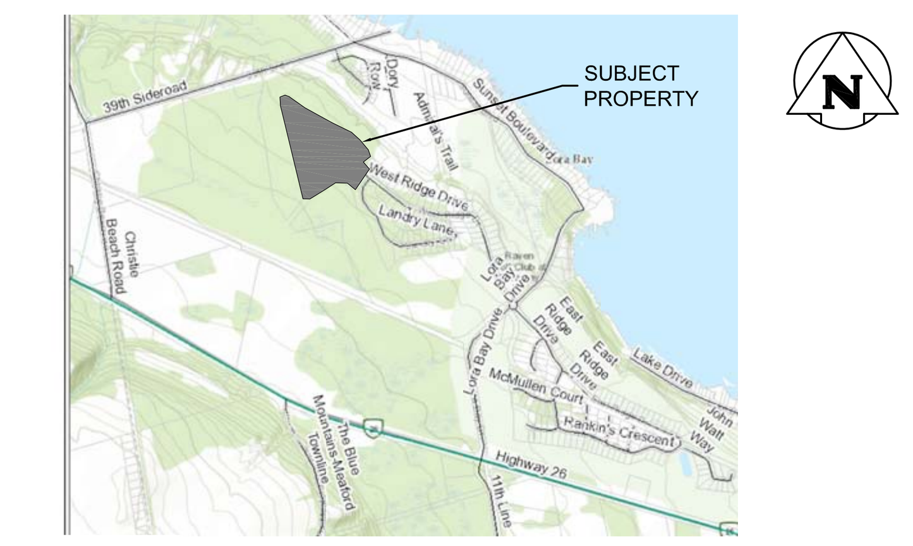
Discharge	13.41	m^3/s	Total Peak Flow – Culvert Conveyance (Regional) $18.41\ m^3/s - 5.00\ m^3/s$
Crest Elevation	182.59	m	Low Point Sunset Boulevard
Tailwater Elevation	181.86	m	Water Level Downstream of Culvert
Crest Surface Type	Paved		
Crest Breadth	9.00	m	Width of Sunset Boulevard (Asphalt)
Crest Length	106.00	m	Overflow Length along Sunset Boulevard

Results

Headwater Elevation	182.77	m	3 Elevation / Depth of Overflow above Sunset Boulevard
Headwater Height Above Crest	0.18	m	
Tailwater Height Above Crest	-0.73	m	
Weir Coefficient	1.67	SI	
Submergence Factor	1.00		
Adjusted Weir Coefficient	1.67	SI	
Flow Area	19.01	m^2	
Velocity	0.71	m/s	Velocity of Overflow above Sunset Boulevard.
Wetted Perimeter	106.36	m	
Top Width	106.00	m	

List of Figures





KEY PLAN
SCALE: N.T.S.

DRAFT PLAN OF SUBDIVISION

PART OF BLOCKS 1, 29, 30
REGISTERED PLAN 16M-8
TOWN OF THE BLUE MOUNTAINS
COUNTY OF GREY

AUGUST 15, 2018

20 0m 20 40 60 80
SCALE: 1:1000

ADDITIONAL INFORMATION REQUIRED UNDER SECTION 51 (17) OF THE PLANNING ACT, R.S.O., 1990

(a) AS SHOWN
(b) AS SHOWN
(c) AS SHOWN
(d) THE LAND IS TO BE USED ACCORDING TO THE SCHEDULE OF LAND USE
(e) AS SHOWN
(f) AS SHOWN
(g) STORMWATER MANAGEMENT & FUNCTIONAL SERVICING REPORT; C.F.CROZIER & ASSOCIATES INC.
(h) MUNICIPAL WATER SUPPLY TO BE MADE AVAILABLE
(i) SOIL IS SANDY SILT TO SILTY SAND
(j) STORMWATER MANAGEMENT & FUNCTIONAL SERVICING REPORT; C.F.CROZIER & ASSOCIATES INC.
(k) FULL MUNICIPAL SERVICES TO BE MADE AVAILABLE
(l) AS SHOWN

SCHEDULE OF LAND USE

LAND USE	BLOCKS	AREA (ha)	UNITS
LOTS	1-38	4.92	38
MULTI UNIT	39	1.40	36
ROAD(S)	WEST RIDGE	0.62	
	STREET A	0.86	
OPEN SPACE	40	0.08	
TOTAL		7.88	74

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE BOUNDARIES OF THE LAND TO BE SUBDIVIDED AS SHOWN ON THIS PLAN AND THEIR RELATIONSHIP TO THE ADJACENT LANDS ARE CORRECTLY SHOWN.

PAUL R THOMSEN B.Sc. O.L.S. _______ ***Date***
ZUBEK, EMO, PATTEN & THOMSEN LTD
ONTARIO LAND SURVEYORS

OWNER'S AUTHORIZATION

WE THE UNDERSIGNED BEING THE REGISTERED OWNERS OF THE SUBJECT LANDS HEREBY AUTHORIZE C. F. CROZIER & ASSOCIATES INC. TO PREPARE AND SUBMIT THIS DRAFT PLAN OF SUBDIVISION TO THE COUNTY OF GREY FOR APPROVAL.

LORA BAY CORPORATION _______ ***Date***

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TEMPORARY BENCHMARKS

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TBM#2–
TBM#3–

No.	ISSUE	DATE: MM/DD/YYYY
1	ISSUED FOR DRAFT PLAN APPROVAL APPLICATION	08/24/2018

DRAFT
FOR DISCUSSION PURPOSES ONLY

Project
LORA BAY PHASE 4
TOWN OF THE BLUE MOUNTAINS

Drawing
PRELIMINARY
ROAD GRADING PLAN

CROZIER
CONSULTING ENGINEERS
THE HARBOUREDGE BUILDING,
40 HURON STREET, SUITE 301,
COLLINGWOOD, ON L9Y 4R3
705 446-3510 T
705 446-3520 F
WWW.CFCROZIER.CA
INFO@CFCROZIER.CA

Drawn By	Design By	Project
S.C.	S.C. / A.S.	469–3061
Scale	**Date**	**Check By**	**Drawing**
1:1000	08/20/2018	A.S.	FIG 1

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1:1000	08/20/2018	AAA	FIG 2

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PRE DEVELOPMENT
WATERSHED DRAINAGE AREA

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S.C.	A.S.	469-3061
Scale	Date	Check By	Drawing
1:4000	08/09/2018	K.A.M.	FIG 3

LEGEND

- PR. STORM CATCHMENT AREA
- 102 / 0.23 | 74U — CATCHMENT AREA ID; RURAL CATCHMENT (R) CURVE NUMBER; URBAN CATCHMENT (U) TOTAL IMPERVIOUSNESS (%); DRAINAGE AREA (ha)
- MAJOR OVERLAND FLOW DIRECTION
- EX. CONTOUR (HENDERSON PADDON 2007)
- BOULDER CREEK

NOTE: BOULDER CREEK AND CULVERT HORIZONTAL ALIGNMENTS ARE APPROXIMATE LOCATIONS BASED ON FIELD DRAINAGE INVESTIGATION.

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Scale	1:4000	Date	08/09/2018	Check By	K.A.M.	Drawing	FIG 4

J:\400\469 - Lora Bay\3061 - Lora Bay\CAD\Civil_Sheets\3061_702.dwg, FIG 4, 8/24/2018 10:35:46 AM, scousins

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J:\400\469 - Lora Bay\3061 - Lora Bay\CAD\Civil_Sheets\3061_702.dwg, FIG 4, 8/24/2018 10:35:46 AM, scousins

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