

NEW YORK STATE  
DEPARTMENT OF TRANSPORTATION  
JOAN McDONALD, Commissioner



## HYDRAULIC SECTION REPORT

CONTRACT NO. D031057  
PIN 8BOW00.101  
BIN 1040750

US 209 OVER ROCHESTER CREEK;  
RONDOUT CREEK FLOODWAY ENCROACHMENT  
TOWN OF ROCHESTER  
ULSTER COUNTY

PREPARED BY:

M.J. ENGINEERING AND  
LAND SURVEYING, P.C.

1533 CRESCENT ROAD  
CLIFTON PARK, NY 12065

AS SUBCONSULTANT TO :

BERGMANN ASSOCIATES

WATERFRONT VILLAGE CENTER  
40 LA RIVIERE DR., SUITE 150  
BUFFALO, NY 14202

JUNE 13, 2014

NOTE:

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION  
OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

## **SECTION 1**

*Table of Contents, Survey Request, Introduction,  
Personnel, Equipment*

**Hydraulic Cross Section Report**  
**Contract No. D031057**  
**PIN 8BOW00.101**  
**Project Structure BIN 1040750**  
**US 209 over Rochester Creek;**  
**Rondout Creek Floodway Encroachment**  
**Town of Rochester, Ulster County**

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**DESCRIPTION**

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**Section 6:** Field Notes

**Section 7:** Coordinate Listing

Files: 1.) 8BOW00\_bin\_1040750\_US209\_sections.xls, Stationed Stream Sections (Excel Format)

2.) 8BOW00\_map\_sur\_bin\_US209\_xsec.dgn, Section Sketch

## Region 8 Survey Request Form

FROM:	<b>Richard A. Frusciante, PE</b>
TO:	Joshua Bush, Survey Director, Region 8
DATE:	<b>4/10/14</b>

Please schedule the following project for in-house surveying. A location map and plan indicating the project area and limits are attached. Please contact me prior to starting to work.

<b>Project Information</b>			
Project Name:	<b>Bridges over Water</b>	State Route #'s:	<b>US 209</b>
9 digit PIN:	<b>8BOW.00.101</b>	Cin/Bin #: 1040750	Counties: <b>Ulster</b>
Project Engineer:	<b>R. Frusciante/M. Schaefer</b>	Phone Number:	<b>5878/5870</b>

<b>Type of Survey</b>			
ROW	<input type="checkbox"/>	ACCIDENT	<input type="checkbox"/>
			TRAFFIC SIGNAL <input type="checkbox"/>
DTM	<input type="checkbox"/>	Other: <input checked="" type="checkbox"/>	<i>HEC-RAS</i>

<b>Mapping Requirements</b>												
Length of Project:												
Mapping Scale:	<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; padding: 2px;">Mapping/ Text scale</th> <th style="text-align: left; padding: 2px;">Plotting Scale</th> </tr> <tr> <td style="padding: 2px;">1:20 <input type="checkbox"/></td> <td style="padding: 2px;">240</td> </tr> <tr> <td style="padding: 2px;">1:40 <input checked="" type="checkbox"/></td> <td style="padding: 2px;">480</td> </tr> <tr> <td style="padding: 2px;">1:50 <input type="checkbox"/></td> <td style="padding: 2px;">600</td> </tr> <tr> <td style="padding: 2px;">1:100 <input type="checkbox"/></td> <td style="padding: 2px;">1200</td> </tr> </table>	Mapping/ Text scale	Plotting Scale	1:20 <input type="checkbox"/>	240	1:40 <input checked="" type="checkbox"/>	480	1:50 <input type="checkbox"/>	600	1:100 <input type="checkbox"/>	1200	
Mapping/ Text scale	Plotting Scale											
1:20 <input type="checkbox"/>	240											
1:40 <input checked="" type="checkbox"/>	480											
1:50 <input type="checkbox"/>	600											
1:100 <input type="checkbox"/>	1200											
Note: All mapping is U.S. Survey Feet unless otherwise noted.												

# Region 8 Survey Request Form

*(Do Not Use To Request Photogrammetry Projects)  
Please Print Information*

Existing Previous Photogrammetry / Survey Files For This Project
<u>Filenames</u>

Project History	
Previous files to merge survey with	<u>Filenames</u>
Survey / Photogrammetry:	
Models (DTM's):	

Requirements		
To be completed by Survey Group only		
Tie Sheets Required	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Bench Table Required	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Photos Required	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Combined Factor Required	Yes <input checked="" type="checkbox"/> 0.99989962	No <input type="checkbox"/>
Survey Book Reference	# 3038	

Date Survey Required
<p>Survey Requirements:     <b>Stream cross sections for HEC-RAS as specified on the attached sheets, which include a map and coordinates of the approximate section locations.</b></p> <p><b>This survey is primarily along the Rondout Creek adjacent to US 209, but also includes a section of the Rochester Creek that is influenced by the Rondout floodway. This information will be used for a study of the floodway encroachment of the Rondout Creek due to any raising of the roadway profile of US 209.</b></p> <ul style="list-style-type: none"> <li>• <i>NYS DOT H&amp;V Survey control exists at this site, and was used for CBOW DTM surveys Use this control for all future work</i></li> <li>• <i>Survey Control Datums: H: NAD 83 (COR 596)    V: NAVD 88</i></li> </ul>

## **BIN 1040750: US 209 over Rochester Creek; Rondout Creek Floodway Encroachment**

### 1. Required Stream Cross Sections:

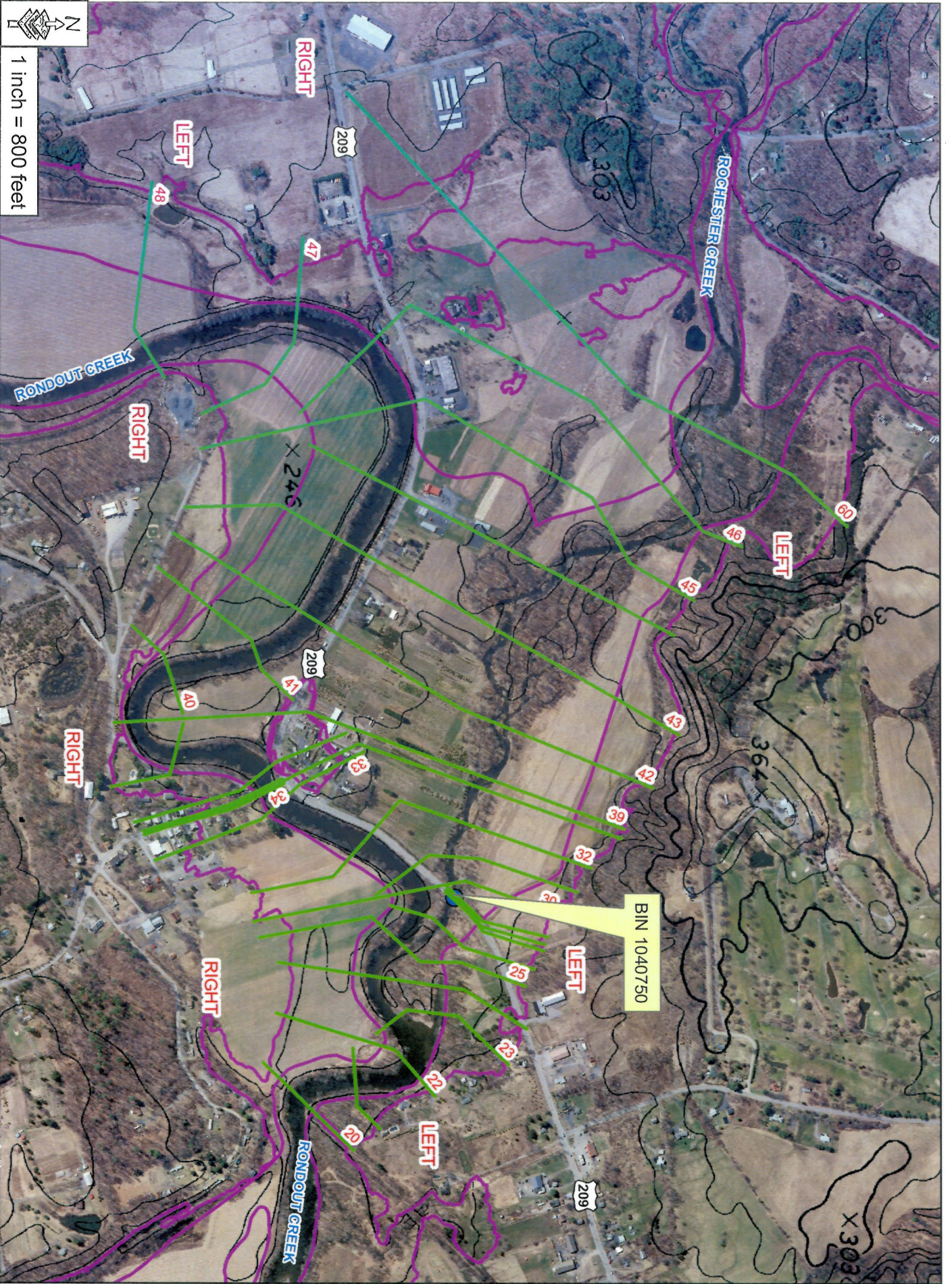
- Along the lines shown on the accompanying map with accompanying coordinates.
  - A shot should be taken at every grade break location along the line connected by these coordinates, both in and out of the stream, and at the water's edge.
  - Due to the limitations of GIS software, these locations and coordinates are approximate, and can be shifted based on field conditions.
  - Sections start at the downstream end with #20 and increase as you go upstream.
  - Additional sections can be inserted based on field conditions. Number with decimal (i.e.- 22.5 would be between Section 22 and 23). See below.
- Sections are intended to be taken perpendicular to the flow both during flood stage and at low flow channel; coordinates are given at angle points.
- Additional cross sections should be taken at points where the characteristics of the terrain change radically, where the flow is constricted, where the shape of the channel changes, at sharp bends in the stream, confluence with tributaries, etc. Contact the Regional Hydraulic Engineer for assistance, if necessary.
- Where impractical to take shots at the limits shown on the attached map, sections should be at least 7 times the width of the low flow channel, and if possible, as wide as the 100 year flood plain. In cases where the flood plain is very wide, shots should be taken as far away from the stream bank as practical.
- All electronic cross section data, whether in Projectwise or not, must be reported from left to right looking downstream starting with the farthest downstream section. Data must be reported in an ASCII text file in 2 column format (station and elevation table with entries separated by one tab). Acceptable file types for section data include .txt, .doc, .wpd or .xls but not PDF.

### 2. Channel cross sections at all bridges shall be taken at both the upstream and downstream faces of the bridge. An additional section shall be taken along the roadway centerline over each structure to be surveyed. Channel Sections shall include:

- Dimensions of bridge opening
- Elevations of stream bed, water surface, bottom of bridge superstructure, top of road and faces of piers and abutments.
- Outline and dimension of piers and abutments with offsets and elevations at or near the face of the project bridge.
- Type of stream bed material at bridge site: (silt; sandy silt; sand; sand and gravel; gravel; rocks)
- Type of vegetation on overflow and type of stream bed.

### 3. Plan at 1"=50', 1"=100', or 1"=200' scale with location and orientation of stream cross sections. PDF format is acceptable for stream and cross section location and orientation plan.

### 4. 1"=20' (or other acceptable scale) plots of stream cross sections, looking downstream with offsets and elevations. PDF format is acceptable for cross section plots.



BIN 1040750- US 209 over Rochester Creek, Rondout Creek floodway encroachment

100 YR FLOODPLAIN

Section	Note	Location	Left Northing	Left Easting	Angle 1 Northing	Angle 1 Easting	Angle 2 Northing	Angle 2 Easting	Angle 3 Northing	Angle 3 Easting	Right Northing	Right Easting
20	A	DS of confluence of Rondout and Rochester Creeks	1077158.0	567658.8	-	-	-	-	-	-	1076577.0	567197.8
21	B	DS of confluence of Rondout and Rochester Creeks	1077323.1	567619.7	1077179.4	567477.3	-	-	-	-	1077153.2	567104.4
22	A	DS of confluence of Rondout and Rochester Creeks	1077675.5	567413.4	1077424.7	567116.4	-	-	-	-	1076660.1	566878.8
23	B	DS of confluence of Rondout and Rochester Creeks	1078147.6	567211.4	1077822.1	566896.4	1077496.6	566857.3	-	-	1077303.7	567010.3
24	A	DS of confluence of Rondout and Rochester Creeks	1078264.8	566979.7	1077865.3	566728.3	-	-	-	-	1076675.6	566551.4
25	C	Confluence of Rondout and Rochester Creeks	1078253.9	566702.7	1077844.3	566552.1	1077582.5	566547.4	1077272.6	566258.3	1076553.0	566394.1
26	D	200' DS of BIN 1040750	1078309.4	566595.0	1077858.6	566455.4	1077661.1	566264.4	-	-	1077394.2	566185.9
27	D	DS Fascia of BIN 1040750; across Roch floodplain	1078371.9	566477.0	1077987.5	566353.4	Follow Pavement	-	-	-	1077742.6	566098.3
28	D	CL of U.S. 209 over BIN 1040750	1078380.4	566435.8	1077979.0	566320.9	Follow Pavement	-	-	-	1077749.8	566081.0
29	D	US Fascia of BIN 1040750; across Roch floodplain	1078399.7	566386.7	1077987.1	566288.3	Follow Pavement	-	-	-	1077753.3	566064.4
30	C	75' US of BIN 1040750; incl floodplain & Rochester	1078456.9	566235.7	1077871.5	566026.9	-	-	-	-	1076515.1	566289.6
31	D	250' US of BIN 1040750; incl floodplain & Roch	1078587.2	566098.5	1077972.8	565884.5	1077639.5	565860.8	-	-	1077301.1	566118.1
32	C	Btwn 1040750 & 3347540; incl floodplain & Roch	1078679.5	565944.3	1077455.6	565506.8	1077028.4	566001.4	-	-	1076502.4	566105.7
33	E	100' DS of BIN 3347540; incl floodplain & Roch	1077226.9	565191.5	1076809.0	565408.4	1076570.1	565628.5	-	-	1075887.7	565896.7
34	E	DS Fascia of BIN 3347540	1076712.4	565400.2	Follow Pavement	-	-	-	-	-	1075820.6	565731.7
35	E	CL of CR27 over BIN 3347540	1078864.3	565752.9	1077192.4	565141.4	1076702.0	565384.7	Follow Pavement	-	1075819.9	565717.9
36	C	US Fascia of BIN 3347540	1076699.7	565368.1	Follow Pavement	-	-	-	-	-	1075815.3	565706.4
37	E	100' US of BIN 3347540; incl floodplain & Roch	1077113.8	565071.8	1076669.1	565256.3	1076426.5	565445.7	-	-	1075756.3	565650.6
38	F	Along Rondout	1076069.9	565012.6	1075984.0	565343.7	-	-	-	-	1075611.4	565420.8
39	C	Along Rondout; across floodplain and Rochester	1078885.1	565689.6	1076870.5	564935.5	-	-	-	-	1075627.0	565007.4
40	F	Along Rondout	1076067.8	564949.0	1075947.7	564566.6	-	-	-	-	1075744.6	564379.1
41	F	Along Rondout	1076771.5	564857.6	1076571.8	564662.2	1076504.2	564468.6	-	-	1075909.9	564002.2
42	C	Along Rondout; across floodplain and Rochester	1079070.1	565423.4	1077838.4	564912.0	-	-	-	-	1076007.1	563780.0
43	C	Along Rondout; across floodplain and Rochester	1079237.8	565081.9	1076684.3	563595.5	-	-	-	-	1076081.8	563613.3
44	G	Along Rondout; across floodplain and Rochester	1079205.2	564438.1	-	-	-	-	-	-	1076885.7	563211.4
45	C	Along Rondout; across floodplain and Rochester	1079331.3	564211.6	1078923.3	563972.0	1078686.4	563551.8	1077619.4	562913.6	1076180.7	563236.6
46	G	Along Rondout; across floodplain and Rochester	1079638.1	563863.1	1079388.2	563765.4	1078685.6	562935.3	1077524.0	562307.2	1076818.6	563002.8
47	A	Along Rondout	1076839.3	561877.7	1076780.3	562544.3	1076597.1	562818.6	-	-	1076191.6	563009.4
48	A	Along Rondout	1075874.0	561523.5	1075757.7	562463.8	-	-	-	-	1075950.9	562775.4
60	H	Along Rochester	1080310.6	563732.9	1079961.1	563400.5	1078931.1	562865.5	-	-	1077117.9	560947.5

This section extends across entirety of Rondout Creek floodplain

- A Sections 21 and 23 can be extended to the limit of the floodplain (RT side) using Section 22
- B Sections 26-29 and 31 can be extended to the limit of the floodplain (LT side of Rochester to RT side of Rondout)
- C Sections 33-35 and 37 can be extended to the limit of the floodplain (RT side) using Section 30
- D Sections 38 and 40-41 can be extended to the limit of the floodplain (LT side) using Section 36
- E Sections 33 and 40-41 can be extended to the limit of the floodplain (LT side) using Section 39
- F Sections 44 and 46 can be extended to the limit of the floodplain (RT side) using Section 45
- G This section extends across entirety of Rochester Creek floodplain
- H

Coordinate System: NAD\_1983\_COR96\_StatePlane\_New\_York\_East\_FIPS\_3101\_Ft\_US  
 Coordinates given in feet  
 Vertical Datum NAVD88  
 "Left" and "Right" sides are defined when looking downstream  
 DS= Downstream; US= Upstream

Note that along the fascia and centerline sections, follow the curvature of the pavement and not necessarily the angle points.



**Hydraulic Cross Section Report  
Contract No. D031057  
PIN 8BOW00.101  
Project Structure BIN 1040750  
US 209 over Rochester Creek;  
Rondout Creek Floodway Encroachment  
Town of Rochester, Ulster County**

**INTRODUCTION**

M.J. Engineering and Land Surveying, P.C. (MJELS) as a sub consultant to *Bergmann Associates, P.C.*, was retained to provide hydraulic cross sections along a portion of Rochester Creek; Rondout Creek Floodway Encroachment at US 209. The project was conducted for the New York State Department of Transportation Region 8 under the direction of Mr. Michael Parrella, Regional Land Surveyor. The stream survey was conducted following an outlined section layout provided by NYSDOT Region 8.

The limits of the survey extended from 2,250' downstream from B.I.N. 1040750 to 4,450' upstream from B.I.N. 1040750 and 700' downstream from B.I.N. 3347540 to 5,950' upstream from B.I.N. 3347540.

The field information was reviewed and computed using Traverse PC software. The deliverables consist of a Microsoft Excel file, xml and 3d Microstation file. The sections are stationed from left to right looking downstream with section 20 being the furthest downstream.

Prepared by:

M.J. Engineering and  
Land Surveying, P.C.

under the direction of:

Joseph G. Malinowski, PLS  
Principal – Director of Survey Services

**Hydraulic Cross Section Report**  
**Contract No. D031057**  
**PIN 8BOW00.101**  
**Project Structure BIN 1040750**  
**US 209 over Rochester Creek;**  
**Rondout Creek Floodway Encroachment**  
**Town of Rochester, Ulster County**

**PERSONNEL**

The following is a list of personnel that performed office and field duties in conjunction with the preparation of this report.

Office:

Joseph G. Malinowski, P.L.S. – Principal – Director of Survey Services, oversaw the management of all functions being performed on the project. Performs the final quality control and quality assurance.

David J. Niedbalski, P.L.S. – Project Manager, oversaw the setup, reduction and analysis of the conventional measured data collected. Reviewed the preparation and compilation of the hydraulic section report.

Robert L. Diehl – Senior Survey Technician, oversaw the computer aided design drafting portion of the project, DTM survey data and any other technical procedures. Prepared the compilation of the hydraulic section report.

Michael L. Koterba – Survey Technician, responsible for the GPS planning and processing. Assisted in the preparation of the GPS control summary of the report.

Field:

John J. Hannafin – Senior Party Chief, oversaw all field operations regarding the setup and collection of conventional horizontal and vertical measurements at each control station for the hydraulic survey and was the daily contact for the project.

Derek Quintana – Instrument Person, performed the duties necessary for the conventional establishment of the project horizontal and vertical control. The duties consisted of the setup of the backsight and foresight stations, along with collecting field measurements at the stations for the hydraulic survey.

**Hydraulic Cross Section Report  
Contract No. D031057  
PIN 8BOW00.101  
Project Structure BIN 1040750  
US 209 over Rochester Creek;  
Rondout Creek Floodway Encroachment  
Town of Rochester, Ulster County**

**EQUIPMENT**

The following is a list of survey equipment utilized for the establishment of horizontal and vertical values for the project control.

GPS Equipment:

Receiver One: Make – Trimble  
Model – GNSS R8  
Serial Number – 4920171659

Receiver Two: Make – Trimble  
Model – GNSS R8  
Serial Number – 4920171558

The Trimble receivers require a Trimble TSC2 data collector. The two receivers are dual frequency that can track the L1 C/A code and full cycle L1 and L2 carrier phase observables.

The Trimble antennae are placed on 6.56' fixed height tripods with centering level bubbles attached. The center leveling bubbles are checked prior to any data collection and adjusted if needed.

Conventional Survey Equipment:

Trimble Total Station – S6  
Serial – 93110648

The Trimble total station utilized is a 3 second instrument.

Three Topcon model tribrachs with optical plummets were set on Crane Tri-Max tripods.

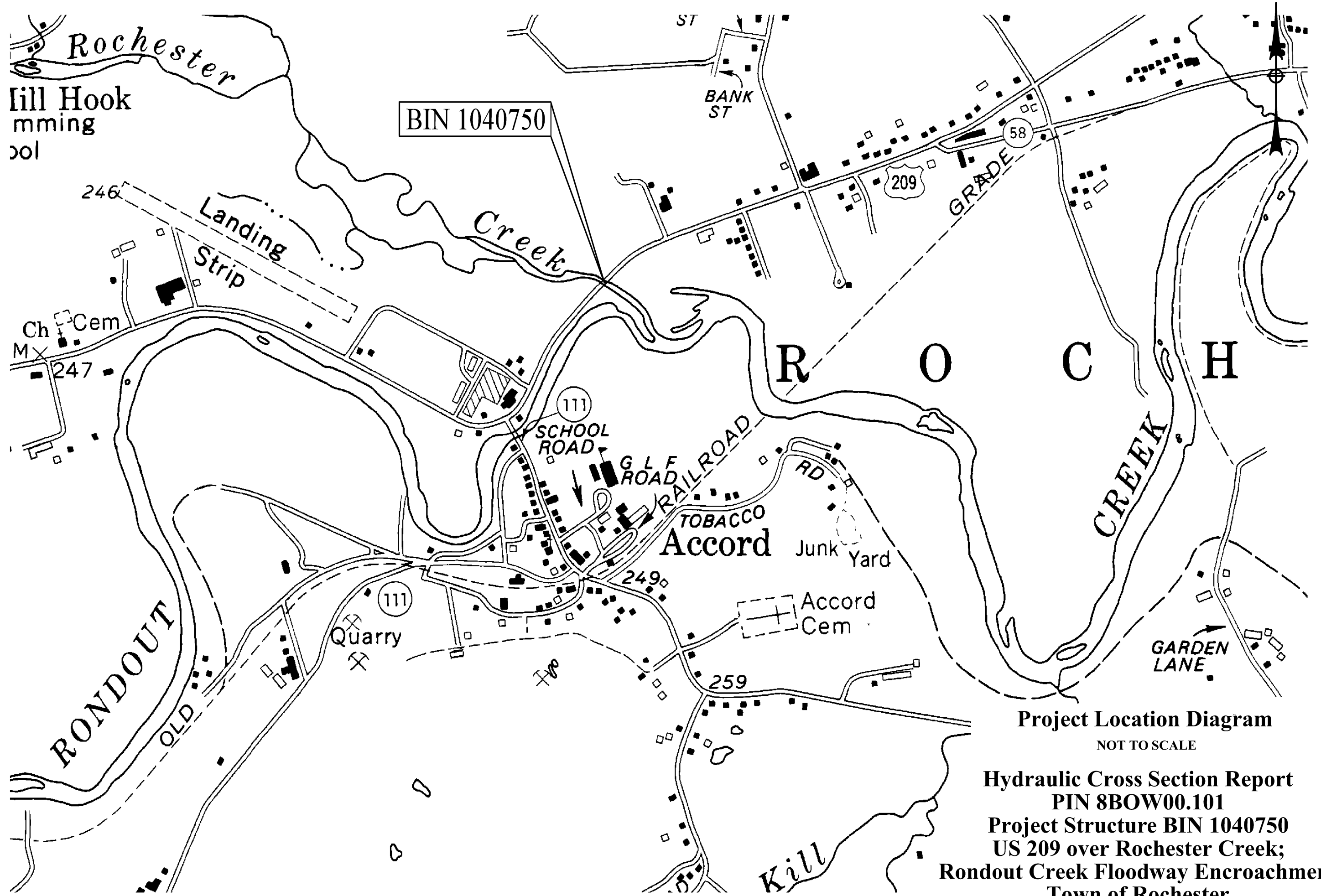
The data was collected and stored in a Trimble TSC2 data collector, Trimble Business Center software.

The vertical values were established on project control by trigonometric methods.

The maintenance for the equipment was performed prior to conducting the field work and was periodically checked during the project.

## **SECTION 2**

### *Project Location Plan*



**Project Location Diagram**

NOT TO SCALE

**Hydraulic Cross Section Report**  
**PIN 8BOW00.101**  
**Project Structure BIN 1040750**  
**US 209 over Rochester Creek;**  
**Rondout Creek Floodway Encroachment**  
**Town of Rochester**  
**Ulster County**

## **SECTION 3**

### *Control Summary*

**Hydraulic Cross Section Report  
Contract No. D031057  
PIN 8BOW00.101  
Project Structure BIN 1040750  
US 209 over Rochester Creek;  
Rondout Creek Floodway Encroachment  
Town of Rochester, Ulster County**

**CONTROL SUMMARY**

MJ Engineering and Land Surveying, P.C. established horizontal and vertical control by NYSNET Real Time Kinetic Network and GPS RTK methods in order to complete the hydraulic section locations. The control points are designated as GPS 51-62, 64, 65, 68, 69, 75-78 and 81-85. The horizontal datum is NAD 83 (2011), New York State Plane Coordinate System, East Zone. The project units are U.S. Survey feet.

NYSDOT control stations U095, U097 and U098 were utilized for project structure BIN 1040750. Twelve additional control points designated as CB3, 63, 66, 67, 70-74, 79, 80 and 86 were set in order to complete the hydraulic survey for BIN 1040750.

The field data collected was downloaded to a desktop computer utilizing Traverse PC software to perform all computations and adjustments necessary for final project control.

**VERTICAL CONTROL**

Elevations were established on site by utilizing GPS RTK techniques and trigonometric leveling techniques. The vertical datum for this project is based upon North American Vertical Datum of 1988 (NAVD88). All elevations are in English units.



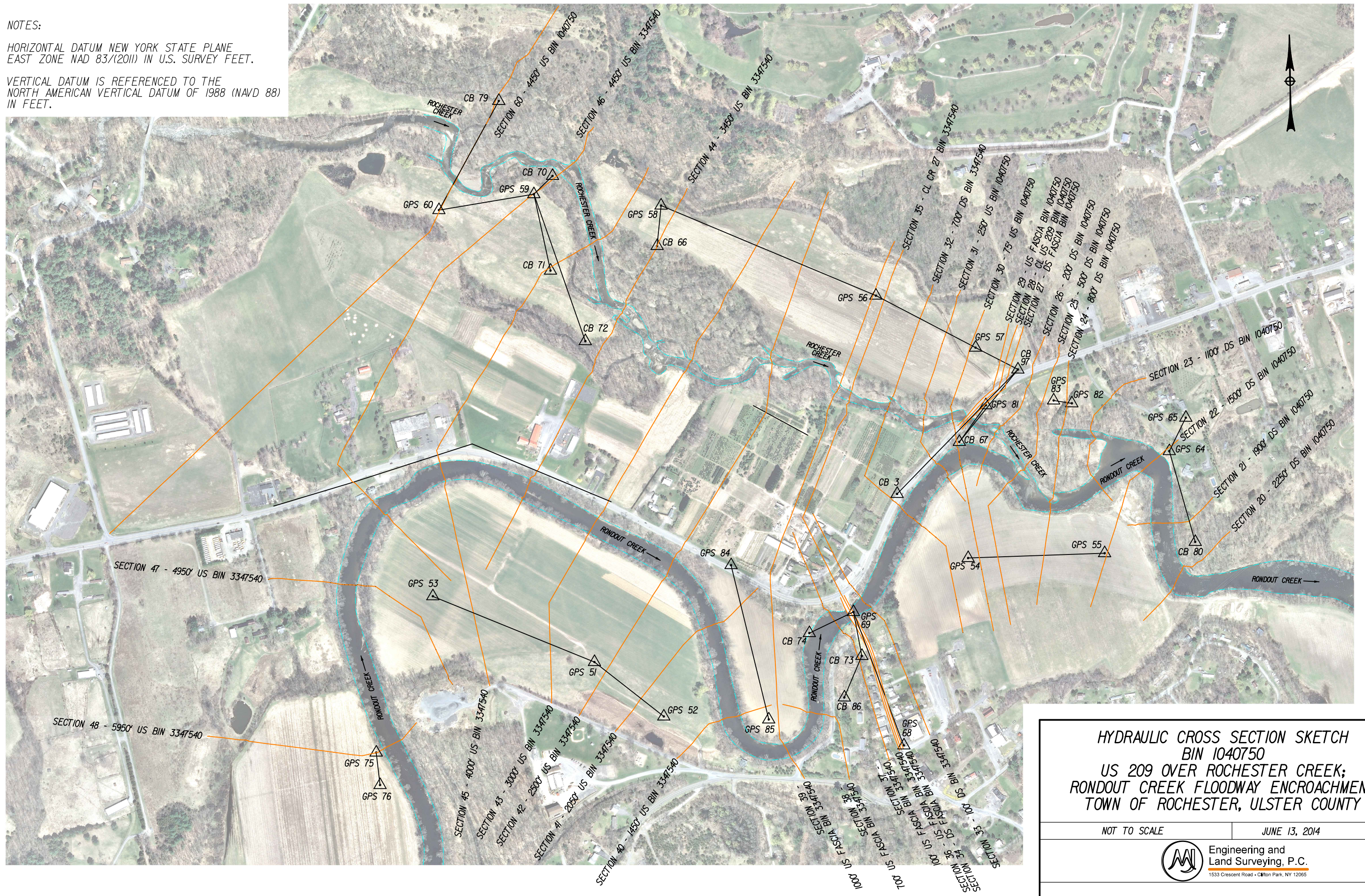
## **SECTION 4**

*Hydraulic Cross Section Sketch*

NOTES:

HORIZONTAL DATUM NEW YORK STATE PLANE  
EAST ZONE NAD 83/(2011) IN U.S. SURVEY FEET.

VERTICAL DATUM IS REFERENCED TO THE  
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)  
IN FEET.



HYDRAULIC CROSS SECTION SKETCH  
BIN 1040750  
US 209 OVER ROCHESTER CREEK;  
RONDOUT CREEK FLOODWAY ENCROACHMENT  
TOWN OF ROCHESTER, ULSTER COUNTY

NOT TO SCALE | JUNE 13, 2014

## **SECTION 5**

*Code List and Stationed Stream Section Printouts*

## TRAVERSE PC

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Codelist with Descriptions:

<u>Code</u>	<u>Description</u>
BWW	Bridge Wingwall
DD	Drainage Ditch
LABAL	Landscape Area Brush Line
LAWA	Landscape Area Wooded Area
LAWE	Landscape Area Waters Edge
LELB	Landscape Elevation Breakline
LELS	Landscape Elevation Spot
LWR	Landscape Retaining Wall
LWSF	Landscape Wall Face
PE	Pavement Edge
PRC	Pavement Road Crown
RB	River Bottom
RC	Roadway Curb Top
RB CL	River Bottom Centerline
RDP	Roadway Driveway Paved
RDU	Roadway Driveway Unpaved

## TRAVERSE PC

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Codelist with Descriptions:

<u>Code</u>	<u>Description</u>
BWW	Bridge Wingwall
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LWR	Landscape Retaining Wall
LWSF	Landscape Wall Face
PE	Pavement Edge
PRC	Pavement Road Crown
RB	River Bottom
RC	Roadway Curb Top
RB CL	River Bottom Centerline
RDP	Roadway Driveway Paved
RDU	Roadway Driveway Unpaved

## SECTION 20

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 20 - 2250' DS of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
6200	0.00	241.54	567723.9922	1077116.5132	LELS
6199	58.53	241.27	567679.8440	1077078.0890	LELS
6198	167.86	240.96	567607.0483	1076996.5161	LELB
6196	244.46	241.79	567553.4731	1076941.7686	LELS
6197	274.57	241.96	567526.1599	1076929.0821	LELB
6195	315.50	224.08	567495.6326	1076901.8221	LELB
6191	370.54	221.69	567440.8832	1076907.4281	LELB
6190	376.45	216.68	567439.3566	1076901.7197	LAWA
6189	394.43	214.80	567433.9062	1076884.5854	RB
6188	428.04	214.25	567417.0821	1076855.4853	RB
6187	454.43	212.31	567404.9822	1076832.0381	RB CL 4.4' DEEP
4035	525.01	214.18	567376.8626	1076767.2925	RB
4034	531.94	216.55	567370.7049	1076764.1327	LAWA
4033	550.39	226.54	567362.9319	1076747.3974	LELB
4032	570.29	230.24	567347.7853	1076734.4840	LAWA LELB
4031	582.78	230.57	567340.3556	1076724.4463	LELB
4030	638.29	232.44	567303.9283	1076682.5661	LELB
4029	787.54	240.69	567198.6879	1076576.7259	LELS

## SECTION 21

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 21 - 1900' DS of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
6186	0.00	241.45	567618.9421	1077322.6194	LELS
6185	85.69	231.25	567562.4051	1077258.2295	LELB
6182	202.82	232.11	567476.7548	1077178.3363	LELS
6184	257.98	228.19	567422.2893	1077169.5940	LELB
6183	260.69	234.49	567419.5983	1077169.8895	LELB
6176	301.34	216.93	567378.9826	1077168.0365	LAWE
6175	319.68	214.44	567360.6479	1077168.5104	RB
6174	365.81	214.00	567314.5455	1077167.1104	RB CL 2.9' DEEP
6173	379.55	214.95	567300.8539	1077168.3272	RB
6172	428.19	214.39	567252.2193	1077168.1889	RB
6171	436.34	216.96	567244.4945	1077170.7890	LAWE
4043	447.45	227.73	567234.3421	1077166.2708	LELB
4042	455.50	230.07	567226.4077	1077167.6357	LELB
4041	468.48	231.39	567213.7116	1077164.9662	LELB LAWA
4040	512.90	226.69	567169.4159	1077161.6356	LELB
4039	518.24	224.00	567164.3870	1077159.8352	LELB
4038	534.81	225.54	567148.5733	1077154.8673	LELB
4037	552.16	225.16	567131.4308	1077157.4871	LELB
4036	581.22	227.69	567102.5275	1077154.4760	LELS

## SECTION 22

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 22 - 1500' DS of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
6180	0.00	241.76	567410.7104	1077673.3623	RDU
6179	51.50	237.47	567372.0319	1077639.3652	LELB
6178	100.87	233.02	567332.7204	1077609.4995	LELB
6177	144.09	217.03	567301.5780	1077579.5263	LAWE
6166	165.57	207.34	567285.7379	1077565.0119	RB
6167	202.70	207.45	567256.2790	1077542.4095	RB CL 9.6' DEEP
6168	259.91	210.32	567212.9611	1077505.0519	RB
6169	279.02	213.82	567199.4058	1077491.5770	RB
6170	303.08	216.95	567180.8795	1077476.2258	LAWE
4046	361.15	231.19	567136.0501	1077439.3111	LELB
4045	383.95	228.40	567116.5943	1077427.4223	LELB
4044	411.59	230.24	567107.5882	1077401.2921	LELB LAWA
1119	493.99	220.60	567083.1106	1077322.6121	LELB
1118	524.75	222.78	567075.3515	1077292.8431	LELB
1117	556.55	221.77	567067.2117	1077262.1102	LELB
1116	569.69	224.65	567062.5676	1077249.8185	LELB
1115	603.75	225.57	567051.8495	1077217.4893	LELB
1114	633.19	228.34	567042.4031	1077189.6027	LELB
1113	683.54	229.83	567029.2499	1077140.9967	LELS
1112	785.21	232.72	566997.3026	1077044.4817	LELB
1111	876.63	230.49	566971.3415	1076956.8263	LELS
1110	953.74	230.24	566947.6182	1076883.4504	LELS
1109	1029.80	231.69	566926.2543	1076810.4567	LELB
1108	1135.95	238.80	566894.4654	1076709.1762	LELB
1107	1188.01	240.66	566878.2053	1076659.7163	LELS



## SECTION 23

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 23 - 1100' DS of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
6262	0.00	237.48	567215.6793	1078048.0378	LELS
6261	45.13	235.60	567171.6152	1078038.2857	LELB
6260	70.55	232.60	567147.6488	1078029.8277	LELB
6259	96.39	235.23	567122.4880	1078023.9228	LELB
6258	116.78	227.35	567103.3392	1078016.9121	DD
6257	130.19	234.06	567090.8006	1078012.1488	LELB
6256	139.57	235.09	567081.8616	1078009.3136	LELB
6255	184.20	236.77	567047.6321	1077980.6803	LELB
6253	244.91	233.99	567005.4121	1077937.0550	RDU
6263	256.09	234.31	567003.9108	1077925.9774	RDU
6264	264.23	233.53	566996.4041	1077922.8149	LELB
6265	402.45	232.55	566900.2805	1077823.4961	LELS
6266	476.34	232.10	566879.1272	1077752.6968	LELB
6267	502.83	216.44	566879.1168	1077726.2140	LAWE
6268	509.67	214.56	566881.7863	1077719.9109	RB
6269	537.06	212.88	566897.4598	1077697.4435	RB CL 3.6' DEEP
6271	559.48	216.80	566911.3082	1077679.8171	LAWE
6165	613.84	228.97	566872.5688	1077641.6785	LELB
6164	633.89	219.63	566873.0180	1077621.6331	LELB
6163	670.78	220.32	566868.6144	1077585.0122	LELS
6162	734.00	221.28	566859.0839	1077522.5134	LELS
6161	797.34	222.71	566878.2388	1077462.1427	LELB
6160	812.30	217.03	566888.8313	1077451.5726	LAWE
6156	828.90	215.42	566900.1823	1077439.4587	RB
6157	858.23	214.50	566919.1041	1077417.0565	RB CL 2.5' DEEP
6158	899.86	213.09	566944.1364	1077383.7842	RB
6159	915.00	216.98	566953.2361	1077371.6879	LAWE
4048	928.89	229.92	566960.2206	1077359.6795	LLELB LAWA
4047	938.61	230.19	566967.2292	1077352.947	LLELB
4020	990.19	229.91	567001.1636	1077314.097	LAWA
4019	1003.67	229.72	567010.1002	1077304.013	LELS

## SECTION 24

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 24 - 800' DS of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
6238	0.00	235.66	566747.5442	1078152.7708	PE
6239	15.38	235.64	566744.3904	1078137.7142	LELB
6240	176.29	233.18	566736.2939	1077977.0132	LELS
6244	288.98	232.63	566734.7977	1077864.3271	LELS
6245	392.64	232.32	566713.7986	1077762.8210	LELB
6246	413.83	223.47	566706.5604	1077742.9060	LELB
6247	423.70	216.97	566705.3527	1077733.1085	LAWE
6248	441.44	213.77	566699.2221	1077716.4632	RB CL 3.2' DEEP
6249	460.51	216.95	566693.1046	1077698.3954	LAWE
6250	474.43	221.01	566685.4640	1077686.7704	LELB
6251	595.12	222.91	566683.9172	1077566.0874	LELS
6252	643.20	221.49	566675.7059	1077518.7164	LELB
6155	845.84	219.66	566650.7759	1077317.6157	LELB
6154	877.18	217.93	566626.9651	1077297.2255	LAWE
6153	887.78	214.69	566634.1175	1077289.4113	RB
6151	892.94	214.30	566638.9532	1077287.6111	RB
6152	906.42	214.02	566633.2463	1077275.3909	RB CL 3.9' DEEP
4051	942.74	218.20	566636.7565	1077239.2488	LAWE
4050	949.54	227.46	566634.3007	1077232.9051	LELB
1096	962.93	233.70	566631.7502	1077219.7599	LELB LAWA
1097	966.48	233.39	566631.6242	1077216.2100	LELB
1098	973.31	231.53	566630.7405	1077209.4379	LELB
1099	980.68	230.94	566629.8421	1077202.1285	LELB
1100	996.97	231.55	566627.5600	1077185.9930	LELB
1101	1102.44	233.17	566611.3006	1077081.7899	LELS
1102	1178.96	233.60	566601.1024	1077005.9490	LELB
1103	1284.49	232.28	566585.7417	1076901.5441	LELB
1104	1347.29	233.09	566575.7587	1076839.5451	LELB
1105	1463.66	239.53	566557.8479	1076724.5604	LELB
1106	1514.76	240.03	566552.5647	1076673.7309	LELS

## SECTION 25

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 25 - 500' DS of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4429	0.00	242.31	566692.2060	1078250.6892	LELS
4427	21.12	240.54	566685.7402	1078230.5869	LELS
4426	69.02	235.58	566688.7764	1078182.7825	LELB
4425	76.99	232.07	566684.4303	1078176.1020	DD
4424	81.91	233.88	566682.0215	1078171.8120	LELB
4423	84.32	234.16	566681.5608	1078169.4425	PE
4422	107.39	234.77	566675.5443	1078147.1761	PRC
4421	137.48	233.50	566659.8813	1078121.4796	PE
4420	163.85	233.11	566650.9518	1078096.6686	LELB
4419	260.33	233.82	566618.8598	1078005.6844	LELB
4418	339.81	232.98	566595.8762	1077929.5971	LELS
4417	395.23	232.31	566576.3388	1077877.7396	LELB
4416	447.88	229.23	566551.4242	1077831.3519	LELS
6241	532.24	222.02	566560.5587	1077747.4881	LELB
6242	696.11	224.08	566548.5619	1077584.0596	LELS
6226	786.92	227.32	566487.8751	1077516.4994	LELB
6225	792.50	218.76	566485.8485	1077511.3036	LAW E
6224	798.69	218.44	566483.8310	1077505.4544	RB
6223	818.66	218.00	566475.9824	1077487.0880	RB CL 0.8' DEEP
6222	828.40	218.64	566466.6445	1077489.8414	LAW E
6221	840.58	219.97	566454.7901	1077487.0311	LELS
6220	863.68	217.69	566438.8462	1077470.3077	LAW E
6219	872.66	216.98	566433.0766	1077463.4331	RB
6218	894.29	216.36	566420.1091	1077446.1204	RB
6217	920.64	215.62	566403.2585	1077425.8599	RB CL 2.1' DEEP
4056	948.81	218.42	566378.8985	1077411.7103	LAW E
4055	957.08	224.06	566372.3636	1077406.6556	LELB
4054	988.67	221.99	566353.2640	1077381.4862	LELB
1095	1027.12	232.28	566330.7327	1077350.3261	LAW A LELB
1094	1030.48	232.88	566328.0862	1077348.2571	LELB
1093	1037.23	232.09	566323.3114	1077343.4907	LELB
1092	1043.58	233.00	566319.3138	1077338.5583	LELB
1091	1058.37	233.06	566309.1403	1077327.8279	LELS
1090	1094.69	233.77	566284.4037	1077301.2225	LELS
1089	1134.37	234.73	566257.4172	1077272.1431	LELS
1088	1168.73	234.50	566265.0319	1077238.6339	LELS
1087	1270.55	234.23	566283.8356	1077138.5640	LELS
1086	1370.94	233.67	566302.8369	1077039.9858	LELS
1085	1473.84	233.31	566320.6224	1076938.6410	LELS
1084	1568.46	235.22	566339.5784	1076845.9382	LELB

1083	1658.14	238.31	566355.4371	1076757.6727	LELB
1082	1700.61	239.88	566364.2926	1076716.1290	LELB
1081	1789.39	240.10	566380.1735	1076628.7811	LELS
1080	1866.64	239.82	566393.5647	1076552.7075	LELS

## SECTION 26

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 26 - 200' DS of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4401	0.00	244.16	566601.6906	1078299.7588	LELS
4402	89.45	236.71	566567.8704	1078216.9472	LELS
4403	165.52	233.85	566536.4759	1078147.6591	LELB
4404	178.28	232.60	566531.0322	1078136.1192	LELB
4405	190.31	232.95	566527.3997	1078124.6487	RDU
4406	202.23	232.66	566527.5334	1078112.7279	PE
4407	221.78	232.19	566527.6966	1078093.1809	PRC
4408	242.59	230.53	566528.0183	1078072.3705	PE
4409	250.64	230.41	566522.6502	1078066.3741	LELB
4410	263.71	233.50	566520.6080	1078053.4638	LELB
4411	307.46	232.34	566508.6406	1078011.3870	LELB
4412	343.38	228.00	566488.1603	1077981.8731	LELB
4413	402.20	224.82	566475.0986	1077924.5221	LELB
4414	469.30	224.54	566450.3806	1077862.1378	LELS
4415	619.38	225.79	566343.5502	1077756.7310	LELB
6228	628.55	219.02	566334.7391	1077759.2769	LAW
6229	635.49	216.46	566329.4199	1077754.8321	RB CL 2.6' DEEP
6230	649.41	216.35	566324.9806	1077741.6358	RB
6231	659.97	219.00	566316.1814	1077735.8014	LAW
6232	672.86	219.83	566308.4560	1077725.4726	LELB
6233	688.14	219.16	566297.0650	1077715.2954	LAW
6234	696.18	218.55	566298.0941	1077707.3206	RB CL 0.6' DEEP
6235	704.70	218.96	566295.9700	1077699.0660	LAW
6236	714.62	223.30	566293.1323	1077689.5639	LELB
4065	752.10	225.34	566269.9490	1077660.1119	LELB
4064	788.07	221.17	566257.0667	1077626.5290	LELB LAW
4063	798.46	218.80	566254.1727	1077616.5517	LAW
4062	814.12	216.08	566251.9904	1077601.0437	RB
4061	850.52	216.57	566236.1889	1077568.2538	RB CL 2.2' DEEP
4060	888.00	216.76	566224.7462	1077532.5620	RB
4059	899.89	218.92	566219.9279	1077521.6922	LAW LAW
4058	906.95	223.88	566218.6670	1077514.7424	LELB
1069	932.19	231.55	566215.0967	1077489.7619	LELB LAW
1068	936.76	231.46	566213.3802	1077485.5262	LELB
1067	983.34	232.67	566199.1447	1077441.1770	LELS
1066	1032.46	233.73	566187.3439	1077393.4871	LELS

## SECTION 27

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 27 - DS FASCIA US 209 (BIN 1040750)

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4308	0.00	241.47	566471.2967	1078358.9567	LELS
4313	22.81	240.20	566467.4200	1078336.4801	LELB
4314	47.75	238.21	566460.2877	1078312.5827	LELB
4315	60.26	237.91	566453.8330	1078301.8641	RDU
4316	73.14	237.33	566451.2525	1078289.2481	RDU
4317	190.55	235.22	566415.5231	1078177.4066	LELB
4325	275.99	229.14	566385.9660	1078097.2404	LELB
4326	305.04	228.06	566381.5141	1078068.5347	LELB
4327	309.78	226.59	566379.9419	1078064.0623	DD
4339	332.72	231.41	566369.3458	1078043.7146	LELB
4340	341.30	232.20	566369.8668	1078035.1533	PE
4341	366.04	231.49	566365.8203	1078010.7472	PRC
4342	391.72	230.10	566362.2947	1077985.3019	PE
4343	442.31	230.18	566320.9651	1077956.1407	PE
4347	475.77	229.93	566294.4705	1077935.7009	PE
4348	532.04	230.24	566251.7417	1077899.0887	PE
4355	584.30	230.48	566215.4585	1077861.4755	PE
4297	655.53	230.21	566165.6558	1077810.5451	LELS
4298	662.25	230.51	566160.8245	1077805.8783	BWW
4381	663.85	230.57	566159.9058	1077804.5618	BWW2
4300	664.92	220.38	566159.1434	1077803.8166	LAW
4301	667.20	217.75	566157.4915	1077802.2477	RB
4302	680.48	217.36	566148.7028	1077792.2931	RB CL 3.0' DEEP
4303	700.14	218.67	566135.7564	1077777.4924	RB
4304	703.55	220.31	566133.7340	1077774.7530	LAW
4378	704.65	230.56	566133.0513	1077773.8834	BWW1
4370	705.91	230.60	566132.4194	1077772.7914	BWW1
4307	713.08	230.65	566127.4594	1077767.6133	LELS
4368	754.47	230.70	566099.8992	1077736.7414	PE

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 28 - CENTERLINE OF US 209 (BIN 1040750)

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4309	0.00	239.91	566435.4439	1078367.3779	LELS
4312	88.59	237.37	566404.8150	1078284.2517	LELS
4318	209.63	234.70	566370.1270	1078168.2922	LELB
4324	285.83	228.42	566350.0396	1078094.7786	LELB
4329	336.51	227.44	566340.6308	1078044.9890	LELB
4328	341.88	225.47	566340.8826	1078039.6177	DD
4338	366.58	230.96	566329.8830	1078017.5012	LELB
4337	376.63	231.98	566328.5665	1078007.545	PE
4344	406.21	231.36	566320.7778	1077979.0082	PRC
4346	454.41	231.08	566282.1458	1077950.1875	PRC
4349	510.87	231.11	566239.6161	1077913.0443	PRC
4354	565.31	231.13	566200.8208	1077874.8532	PRC
4357	642.24	231.25	566148.9132	1077818.0689	PRC
4360	666.92	231.29	566132.1767	1077799.9329	PRC
4361	667.96	231.29	566131.4347	1077799.2071	PRC
4364	696.15	231.31	566112.9567	1077777.9214	PRC
4367	735.86	231.04	566086.3190	1077748.4669	PRC

## SECTION 29

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 29 - US FASCIA US 209 (BIN 1040750)

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4310	0.00	240.58	566383.1925	1078376.2574	LELS
4311	92.46	236.98	566362.7646	1078286.0866	LELS
4319	221.80	233.72	566332.1554	1078160.4137	LELB
4323	299.85	227.95	566314.9937	1078084.2721	LELB
4333	365.03	225.49	566296.6166	1078021.7361	LELB
4334	373.09	224.26	566295.5635	1078013.7548	DD
4335	401.17	230.56	566290.1362	1077986.1960	LELB
4336	408.36	231.44	566289.4758	1077979.0387	PE
4345	432.01	231.33	566270.7308	1077964.6191	PE
4352	491.12	231.18	566226.0366	1077925.9314	PE
4353	544.45	230.90	566188.5174	1077888.0402	PE
4358	624.17	231.13	566137.2650	1077826.9778	PE
4296	628.35	230.73	566133.1363	1077826.2925	LELB
4295	636.61	230.65	566128.0375	1077819.8017	BWW
4294	637.90	230.63	566127.2384	1077818.7809	BWW
4293	638.85	220.39	566126.5009	1077818.1813	LAW
4292	642.22	216.40	566124.3214	1077815.6220	RB
4291	660.43	216.04	566112.5758	1077801.7048	RB CL 4.4' DEEP
4290	673.96	217.56	566103.0045	1077792.1302	RB
4289	676.39	220.06	566101.4986	1077790.2299	LAW
4288	678.26	230.52	566100.7868	1077788.5024	BWW
4395	679.66	230.53	566099.6718	1077787.6599	BWW4
4366	718.06	230.33	566073.9633	1077759.1361	PE



### SECTION 30

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 30 - 75' US of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4257	0.00	243.34	566234.6803	1078458.3072	LELS
4258	228.94	233.39	566150.9444	1078245.2349	LELB
4259	272.95	230.37	566140.3051	1078202.5227	LELB
4260	322.92	226.26	566127.9424	1078154.1100	LELB
4261	387.98	227.62	566108.2888	1078092.0933	LELS
4262	560.07	226.59	566051.1742	1077929.7555	LELB
4263	578.42	223.64	566044.4159	1077912.6916	LELB LAWA
4264	607.05	224.43	566035.8560	1077885.3750	LELB
4265	621.20	223.78	566028.2576	1077873.4328	LELS
4266	646.60	223.52	566036.3240	1077849.3449	LELB
4267	655.21	220.33	566037.7686	1077840.8618	LAWE
4268	663.65	219.97	566038.0711	1077832.4233	RB
4269	683.04	219.13	566040.2269	1077813.1551	RB
4270	692.99	218.24	566040.7857	1077803.2244	RB CL 2.1' DEEP
4271	707.47	220.12	566043.3678	1077788.9756	LAWE
4272	708.89	220.81	566042.2124	1077788.1558	LELB
4273	718.98	221.27	566045.9120	1077778.7615	LELB
4274	729.18	224.23	566049.4876	1077769.2079	LELB
4275	739.92	223.68	566051.5202	1077758.6658	LELB
4276	758.08	230.03	566055.8127	1077741.0190	PE
4277	781.22	230.78	566059.0352	1077718.1020	PRC
4278	805.79	230.25	566062.3933	1077693.7626	PE
4076	825.82	228.93	566063.8305	1077673.7842	LAWA
4075	844.49	228.80	566068.4522	1077655.6963	LELB
4074	852.36	226.97	566072.5036	1077648.9503	LELB LAWA
4073	870.17	218.83	566067.6236	1077631.8287	LAWE
4072	878.79	216.61	566072.1574	1077624.4893	RB
4071	898.27	215.15	566079.9818	1077606.6532	RB
4070	954.60	215.56	566085.7092	1077550.6109	RB CL 3.3' DEEP
4069	991.14	216.21	566091.5654	1077514.5488	RB
4068	1002.72	218.74	566099.4135	1077506.0330	LAWE LAWA
4067	1011.57	224.20	566097.6666	1077497.3558	LELB
4066	1018.82	228.54	566101.2514	1077491.0535	LELB
1064	1032.61	231.92	566102.5240	1077477.3252	LELB LAWA
1065	1045.13	231.57	566105.2312	1077465.0965	LELB
1070	1134.29	233.23	566123.4103	1077377.8150	LELS
1071	1224.35	234.57	566139.9619	1077289.2886	LELS
1072	1325.87	234.27	566158.2766	1077189.4277	LELS
1073	1400.76	234.63	566172.5205	1077115.9107	LELS
1074	1522.07	233.85	566196.5304	1076996.9997	LELS

1075	1633.53	234.16	566218.1459	1076887.6548	LELS
1076	1708.91	235.11	566232.0612	1076813.5673	LELB
1077	1844.92	239.24	566256.8089	1076679.8348	LELB
1078	1899.14	239.78	566267.9077	1076626.7612	LELS
1079	2013.23	239.25	566290.6204	1076514.9514	LELS

## SECTION 31

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 31 - 250' US of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4256	0.00	244.56	566089.8051	1078579.7896	LELS
4255	10.09	240.33	566087.2455	1078570.0320	LELB RDU
4254	29.81	240.01	566077.9469	1078552.6416	RDU
4253	39.69	239.13	566070.9982	1078545.6184	LELB
4252	47.11	235.17	566069.1701	1078538.4276	LELB
4251	85.89	232.22	566063.3611	1078500.0797	LAWA
4250	202.87	229.65	566029.3885	1078388.1394	LELB
4249	230.79	226.97	566017.4866	1078362.8893	LELB
4248	344.01	228.08	565979.2408	1078256.3264	LELS
4247	420.65	227.92	565957.2639	1078182.9056	LELS
4246	510.77	227.01	565931.9392	1078096.4123	LELS
4245	694.22	224.83	565870.3728	1077923.6068	LELB
4244	722.02	226.01	565886.6721	1077901.0776	LELB
4243	746.08	224.89	565885.9467	1077877.0368	LELB
4242	792.69	224.54	565873.9011	1077832.0035	LELB
4241	802.17	221.31	565868.2805	1077824.3711	LAWE
4240	817.99	220.78	565867.9155	1077808.5554	RB CL 0.5' DEEP
4239	828.33	220.77	565865.8718	1077798.4246	RB
4238	833.61	221.72	565865.6050	1077793.1452	LAWE
4237	860.94	222.21	565866.1745	1077765.8184	LELS
4236	879.31	221.37	565865.5546	1077747.4646	LAWE
4235	885.10	220.21	565866.3660	1077741.7285	RB
4234	893.54	218.87	565866.0622	1077733.2948	RB CL 2.5' DEEP
4233	904.94	218.64	565863.1489	1077722.2777	RB
4232	908.85	221.25	565862.4771	1077718.4233	LAWE
4230	915.72	226.31	565861.9266	1077711.5740	LELB
4231	968.40	225.70	565848.0303	1077660.7614	LELS
4282	1064.45	228.63	565901.1279	1077580.7264	LELB LAWA
4281	1073.20	229.96	565903.1123	1077572.2033	PE
4280	1091.93	230.73	565916.8707	1077559.4838	PRC
4279	1111.20	230.16	565931.4733	1077546.9170	PE
4077	1115.42	229.62	565934.8284	1077544.3540	LELB
4078	1123.92	226.50	565937.9306	1077536.4382	LELB LAWA
4079	1135.68	218.95	565942.8711	1077525.7695	LAWE LAWA
6214	1148.56	215.47	565955.4346	1077528.5978	RB
6213	1178.10	214.47	565979.6758	1077511.7191	RB CL 4.5' DEEP
6215	1213.57	215.86	566003.1153	1077485.0914	RB
6216	1242.08	215.81	566016.2201	1077459.7709	RB
4083	1260.52	219.00	566008.0404	1077443.2416	LAWE LAWA
4082	1262.86	220.45	566010.2048	1077442.3566	LELB

4081	1268.77	220.97	566015.4185	1077439.5793	LELB
4080	1293.06	232.68	566029.8929	1077420.0688	LELB LAWA
1063	1309.52	232.45	566037.9770	1077405.7373	LELS
1062	1355.04	233.04	566065.7946	1077369.7000	LELS
1061	1441.84	234.20	566119.0173	1077301.1395	LELS

## SECTION 32

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 32 - 700' DS of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4215	0.00	246.19	565923.6182	1078612.7767	LELS
4214	27.53	241.88	565915.5892	1078586.4427	LELB
4213	47.00	233.18	565912.2964	1078567.2568	LELB RDU
4212	64.54	233.37	565905.6622	1078551.0130	LELB RDU
4211	82.70	229.12	565895.8874	1078535.7167	LELB
4210	139.88	229.30	565875.4035	1078482.3303	LELS
4209	212.05	228.93	565847.7242	1078415.6758	LELS
4208	412.38	228.88	565781.2104	1078226.7129	LELS
4207	624.42	226.55	565712.4865	1078026.1127	LELB
4206	648.61	224.34	565704.2897	1078003.3626	LELB
4205	690.92	226.43	565692.0867	1077962.8477	LELB
4217	722.50	226.68	565679.7594	1077933.7735	LELB
4218	727.83	222.42	565676.9396	1077929.2457	LAW E
4219	739.80	220.47	565669.6502	1077919.7562	RB CL 12.0' DEEP
4220	748.69	222.38	565666.0854	1077911.6105	LAW E
4221	751.75	223.00	565665.4758	1077908.6162	LELS
4222	753.36	222.43	565664.9579	1077907.0878	LAW E
4223	768.02	219.06	565661.5917	1077892.8161	RB
4224	788.73	220.80	565655.0697	1077873.1667	RB CL 1.6' DEEP
4225	806.80	219.49	565646.8745	1077857.0554	RB
4227	818.02	222.42	565647.0917	1077845.8428	LAW E
4228	820.77	223.95	565644.4338	1077845.1073	LELB
4229	840.88	228.58	565633.3601	1077828.3228	LELB
6092	869.12	225.71	565629.4857	1077800.3560	LELB
6091	924.69	227.01	565610.1106	1077748.2670	LELB
6090	1023.00	226.46	565581.1240	1077654.3290	LELS
6089	1147.91	228.82	565538.2391	1077537.0100	LELS
6088	1235.65	230.40	565509.4755	1077454.1250	LELS
6087	1367.01	229.86	565607.6273	1077366.8140	LELS
6086	1436.57	232.26	565662.7166	1077324.3470	LELS
6075	1464.55	233.64	565681.3308	1077303.4590	PE
6076	1483.11	233.30	565697.4690	1077294.2871	PRC
6077	1501.96	232.30	565711.0249	1077281.1861	PE
6078	1511.45	231.53	565719.3972	1077276.7215	LELB
6079	1531.30	217.77	565730.1490	1077260.0328	LAW E
6080	1543.06	214.74	565737.8445	1077251.1492	RB
6081	1589.84	215.74	565769.5509	1077216.7461	RB CL 2.0' DEEP
6082	1630.79	216.19	565804.0855	1077194.7460	RB
6083	1668.00	215.77	565831.7217	1077169.8310	RB
6084	1677.59	217.74	565838.5151	1077163.0546	LAW E

4087	1679.57	219.05	565840.4608	1077162.7297	LAWE LAWA
4086	1682.77	224.30	565843.6275	1077163.2420	LELB
4085	1692.32	230.92	565849.4752	1077155.7023	LELB
4084	1699.81	233.91	565853.8406	1077149.6148	LAWA LELB
1060	1715.81	234.77	565868.4607	1077143.0989	LELS
1059	1730.04	235.51	565879.8464	1077134.5689	LELB
1058	1760.56	235.65	565902.4152	1077114.0204	LELS
1057	1810.73	235.76	565940.9686	1077081.9123	LELS
1056	1891.93	235.20	566001.9804	1077028.3374	LELS
1055	1920.07	235.15	566006.8648	1077000.6286	LELS
1054	2018.99	235.04	566025.4373	1076903.4593	LELS
1053	2121.45	235.01	566045.5224	1076802.9903	LELS
1052	2223.32	235.94	566066.3743	1076703.2765	LELS
1051	2328.55	238.34	566086.0761	1076599.9080	LELS
1050	2427.31	239.22	566105.2873	1076503.0346	LELS

### SECTION 33

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 33 - 100' DS of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4718	0.00	234.91	565195.2015	1077225.5410	LELS
4719	114.73	238.00	565247.7547	1077123.5590	LELS
4720	231.07	243.51	565299.9793	1077019.5930	LELS
4721	340.62	245.51	565348.5656	1076921.4080	LELS
4722	468.02	237.30	565411.4156	1076810.5860	LELS
4723	475.72	237.15	565414.4297	1076803.5070	RDP
4724	476.48	237.36	565414.9439	1076802.9490	RC
4725	478.99	237.57	565416.6263	1076801.0760	RC
4726	479.68	236.59	565417.0847	1076800.5690	PE
4727	498.69	238.14	565430.4427	1076787.0470	PRC
4728	518.65	239.27	565443.1950	1076771.6870	PE
4729	532.90	238.74	565451.3989	1076760.0320	LELS
4730	538.00	239.47	565455.3211	1076756.7800	LELS
4751	582.32	220.27	565483.6045	1076722.6582	LELB
4750	588.19	217.86	565486.3335	1076717.4532	LAW
4749	593.75	213.49	565490.6894	1076714.0100	RB
4748	611.68	210.25	565496.7511	1076697.1364	RB CL 7.6' DEEP
4747	639.52	211.08	565516.4952	1076677.5069	RB
4746	674.52	214.16	565546.7270	1076659.8582	RB
4745	683.75	217.86	565552.1758	1076652.4138	LAW
4753	700.57	229.88	565554.2338	1076635.7189	LELB
4754	729.25	235.97	565579.8387	1076622.7954	LELB LAW
4088	798.06	236.82	565629.6887	1076575.3644	LELS
4089	887.04	237.14	565664.9140	1076493.6573	LELS
4090	953.04	238.40	565688.4257	1076431.9834	LELS
4091	1040.53	241.18	565717.3820	1076349.4226	LELS
4092	1153.80	240.68	565761.1072	1076244.9347	RDU
4093	1170.12	240.89	565767.0494	1076229.7324	RDU
4094	1271.88	241.60	565802.9993	1076134.5366	LELS
4095	1444.62	243.81	565867.7953	1075974.4115	LELS
4096	1542.47	244.77	565904.2029	1075883.5904	PE

## SECTION 34

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 34 - DS FASCIA CR 27 (BIN 3347540)

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4743	0.00	240.92	565385.1612	1076728.3990	PE
4644	54.01	241.97	565415.9820	1076684.0426	BWW4
4606	59.23	241.92	565418.0615	1076679.2536	BWW4
4607	61.78	241.92	565419.2813	1076677.0197	BWW4
4646	63.11	224.46	565420.0592	1076675.9401	LELB
4647	79.03	222.93	565427.8854	1076662.0754	LELB
4756	86.32	217.96	565430.1571	1076655.1509	LAWE
4758	91.78	204.67	565433.5357	1076650.8580	RB
4759	115.78	209.96	565445.4797	1076630.0380	RB CL 8.0' DEEP
4760	135.65	212.19	565454.1986	1076612.1882	RB
4761	147.85	217.98	565459.8843	1076601.3906	LAWE
4762	157.10	220.00	565464.6836	1076593.4853	LELB
4612	158.70	241.90	565464.6629	1076591.8875	BWW3
4611	161.26	241.92	565465.8195	1076589.6072	BWW3
4654	166.47	241.90	565468.4508	1076585.1101	BWW3
4613	219.38	240.82	565487.7411	1076535.8386	PE
4614	275.64	239.24	565514.2582	1076486.2179	PE
4615	333.57	238.34	565540.1536	1076434.4013	PE
4616	388.78	238.60	565560.0118	1076382.8819	PE
4617	444.31	239.10	565577.5221	1076330.1907	PE
4618	493.96	239.81	565590.4754	1076282.2611	PE
4619	546.63	240.36	565603.7402	1076231.2840	PE
4620	605.98	240.99	565619.2338	1076173.9888	PE
4621	658.56	242.00	565633.5302	1076123.3959	PE
4663	712.05	242.41	565648.6060	1076072.0746	PE
4668	765.05	242.87	565664.8198	1076021.6111	PE
4669	812.52	243.45	565680.8325	1075976.9289	PE
4674	915.50	244.29	565713.1729	1075879.1516	PE
4675	1001.36	245.44	565743.8668	1075798.9681	PE



## SECTION 35

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 35 - CENTERLINE OF CR 27 (BIN 3347540)

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4196	0.00	241.35	565743.8582	1078824.3102	LELS
4195	34.84	231.52	565729.2669	1078792.6691	RDU LELB
4194	50.36	230.85	565726.3056	1078777.4371	RDU LELB
4193	73.30	228.88	565711.8188	1078759.6538	LELB
4192	178.44	230.40	565672.6618	1078662.0769	LELS
4191	301.06	229.39	565634.4909	1078545.5499	LELS
4190	477.16	229.66	565577.7933	1078378.8262	LELS
4189	682.96	227.87	565504.5651	1078186.4899	LELS
4188	852.15	225.59	565444.8222	1078028.1986	LELB
4187	910.80	224.18	565430.7304	1077971.2702	LELB
4186	914.70	223.17	565429.6263	1077967.5258	LAW E
4185	925.88	221.19	565426.2553	1077956.8697	RB
4184	946.84	222.48	565419.8010	1077936.9266	RB CL 0.7' DEEP
4183	965.25	222.54	565415.2411	1077919.0937	RB
4182	978.23	222.81	565414.8442	1077906.1217	LAW E
4181	983.77	230.35	565415.1902	1077900.5847	LELB
4179	1004.78	227.43	565399.9227	1077886.1629	LELB
4180	1062.77	228.07	565400.8769	1077828.1819	LELS
4693	1159.70	227.61	565346.0240	1077748.2590	LELS
4694	1282.39	230.85	565304.0097	1077632.9850	LELS
4695	1549.36	232.86	565210.5815	1077382.9030	LELS
4696	1747.92	234.72	565133.5687	1077199.8870	LELB
4697	1773.26	238.41	565145.3652	1077177.4580	LELB
4698	1831.77	238.71	565171.8328	1077125.2730	LELS
4700	1969.42	245.93	565233.4077	1077002.1630	LELB
4699	2093.69	248.26	565290.0133	1076891.5370	LELS
4701	2129.34	249.15	565305.2641	1076859.3070	LELB
4702	2188.63	239.04	565332.0644	1076806.4210	LELB
4703	2244.54	238.72	565357.1151	1076756.4390	PE
4704	2262.17	240.06	565364.4294	1076740.3990	PRC
4705	2282.34	241.14	565374.4254	1076722.8760	PRC
4603	2341.46	241.60	565401.5021	1076670.3239	PRC
4602	2381.38	241.69	565420.0233	1076634.9622	PRC
4601	2443.30	241.57	565449.1372	1076580.3114	PRC
4600	2501.57	241.00	565476.8142	1076529.0355	PRC
4599	2557.38	239.23	565502.7481	1076479.6184	PRC
4598	2614.74	238.58	565528.6762	1076428.4517	PRC
4597	2669.21	238.61	565548.9481	1076377.8996	PRC
4596	2722.26	239.12	565565.0254	1076327.3370	PRC

4594	2772.51	239.89	565578.2744	1076278.8736	PRC
4658	2829.28	240.35	565592.8381	1076223.9962	PRC
4659	2884.17	241.10	565606.8986	1076170.9441	PRC
4662	2937.31	241.79	565621.8129	1076119.9404	PRC
4664	2991.24	242.34	565637.1105	1076068.2199	PRC
4667	3044.41	242.92	565652.9498	1076017.4651	PRC
4670	3092.27	243.46	565668.3480	1075972.1459	PRC
4673	3194.78	244.58	565701.6371	1075875.1957	PRC
4676	3281.47	245.64	565731.3034	1075793.7366	PRC

## SECTION 36

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 36 - US FASCIA CR 27 (BIN 3347540)

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4744	0.00	241.48	565362.4287	1076716.6889	PE
4633	54.33	242.03	565382.0367	1076666.0244	BWW1
4579	59.50	241.91	565384.6509	1076661.5611	BWW1
4580	61.89	241.91	565385.8563	1076659.4911	BWW1
4635	62.95	228.70	565385.9690	1076658.4461	LELB
4636	71.00	227.60	565389.7174	1076651.3149	LELB
4771	82.48	217.91	565395.1162	1076641.1907	LAWE
4770	91.59	211.54	565398.8045	1076632.8599	RB
4769	111.10	209.41	565408.8821	1076616.1523	RB CL 8.5' DEEP
4768	132.90	212.82	565418.6925	1076596.6843	RB
4767	141.97	216.36	565422.8536	1076588.6204	RB
4765	156.05	217.79	565429.1432	1076576.0294	RB
4766	156.96	217.93	565429.7258	1076575.3203	LAWE
4587	158.88	241.90	565431.2231	1076574.1186	BWW2
4586	161.35	241.92	565432.3584	1076571.9345	BWW2
4623	166.77	241.90	565434.4684	1076566.9360	BWW2
4588	219.35	240.50	565464.7396	1076523.9418	PE
4589	275.68	239.10	565491.3803	1076474.3177	PE
4590	332.60	238.36	565516.5761	1076423.2756	PE
4591	385.76	238.29	565536.7796	1076374.1011	PE
4592	438.62	238.84	565552.6744	1076323.6859	PE
4593	488.73	239.71	565566.4974	1076275.5252	PE
4657	545.19	240.28	565581.2167	1076221.0182	PE
4660	599.93	240.98	565595.7738	1076168.2424	PE
4661	653.09	241.58	565610.4305	1076117.1497	PE
4665	707.52	242.29	565626.1726	1076065.0393	PE
4666	760.64	242.69	565642.1861	1076014.3903	PE
4671	809.54	243.34	565657.4861	1075967.9511	PE
4672	911.36	244.69	565690.8825	1075871.7671	PE
4677	999.65	245.70	565720.8520	1075788.7158	PE

## SECTION 37

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 37 - 100' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4717	0.00	239.60	565074.0826	1077110.6630	LELS
4716	97.37	239.80	565109.7046	1077020.0430	LELS
4715	190.30	241.51	565145.3944	1076934.2430	LELB
4714	206.36	248.43	565153.2689	1076920.2400	LELB
4713	331.61	253.03	565200.9404	1076804.4190	LELB
4712	428.98	243.07	565237.8648	1076714.3220	LWR LELB
4711	429.88	241.61	565238.0343	1076713.4350	LWSF
4710	432.53	241.55	565239.2544	1076711.0900	PE
4709	448.08	243.06	565246.1996	1076697.1730	PRC
4708	466.46	244.23	565252.2551	1076679.8220	PE
4706	479.12	240.24	565254.1198	1076667.2980	LELB
4707	497.16	239.98	565262.3064	1076651.2220	LELB
4786	531.03	217.89	565291.8132	1076634.5888	LAWE
4785	540.76	213.96	565294.7723	1076625.3195	RB
4784	558.81	212.97	565304.3060	1076609.9971	RB
4783	592.76	213.06	565322.0775	1076581.0719	RB CL 4.8' DEEP
4782	619.02	214.17	565337.4465	1076559.7787	RB
4781	651.09	215.52	565354.0860	1076532.3612	RB
4780	665.03	217.92	565364.4549	1076523.0428	LAWE
4779	674.05	222.20	565369.8197	1076515.7900	LELB
4778	694.40	230.66	565380.7316	1076498.6099	LELB
4777	705.15	232.33	565391.4793	1076498.5944	LELS
4741	747.67	236.63	565426.7032	1076474.7809	LELB
4740	751.95	235.53	565429.0614	1076471.2109	PE
4739	762.20	235.57	565434.0226	1076462.2407	PRC
4738	772.59	235.42	565439.5394	1076453.4366	PE
4737	782.24	236.96	565443.7962	1076444.7754	LELB
4736	808.28	235.26	565447.5275	1076419.0031	LELS
4735	856.85	234.87	565463.3787	1076373.0952	LELB
4734	889.54	230.15	565476.1694	1076343.0142	LELB
4733	955.65	230.41	565492.3720	1076278.9147	LELB
4732	989.73	240.78	565499.7252	1076245.6387	LELB
4731	1123.94	244.52	565538.8197	1076117.2440	LELS
4680	1318.75	243.77	565594.6858	1075930.6254	LELS
4679	1464.58	244.51	565640.3634	1075792.1274	LELS
4678	1530.42	246.25	565658.5026	1075728.8386	LELS

## SECTION 38

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 38 - 700' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
1313	0.00	235.88	565012.5197	1076068.1181	LELS
1312	53.72	234.40	565064.8856	1076056.1486	LELS
1311	109.46	233.34	565118.8723	1076042.2686	LELS
4793	154.95	230.90	565158.6265	1076020.1588	LELB
4792	164.85	218.59	565168.4648	1076021.2964	LAWE
4791	180.89	217.56	565184.5031	1076021.6237	RB
4790	216.34	216.69	565218.2397	1076010.7604	RB CL 1.9' DEEP
4789	245.32	216.98	565247.1379	1076008.5503	RB
4788	260.36	218.56	565262.1597	1076007.7679	LAWE
4787	274.17	222.35	565275.9066	1076006.4329	LELB
6273	309.34	238.61	565308.4070	1075993.0013	PE LELB
6274	318.89	238.58	565317.9556	1075992.8848	PRC
6275	329.62	238.28	565328.6443	1075993.8329	PE LELB
6276	381.13	236.96	565354.0691	1075949.0386	LELB
6277	460.17	238.77	565369.0306	1075871.4183	LELB
6278	538.64	240.17	565380.9884	1075793.8697	LELB
6279	722.07	242.54	565417.1537	1075614.0362	LELB

## SECTION 39

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 39 - 1000' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4198	0.00	238.79	565690.9182	1078876.1765	LELS
4197	58.33	232.12	565664.9039	1078823.9691	RDU LELB
4199	75.16	231.79	565661.0169	1078807.5965	RDU LELB
4200	78.09	230.61	565660.0556	1078804.8299	LELB
4201	148.96	229.82	565630.8208	1078740.2685	LELB
4202	346.69	230.43	565561.7482	1078554.9937	LELS
4203	577.51	230.25	565482.9524	1078338.0415	LELS
4204	730.49	226.49	565429.6997	1078194.6258	LELB
4168	856.56	225.64	565383.6671	1078077.2593	LELB
4169	864.94	224.42	565383.1776	1078068.8937	LELB
4170	892.86	224.98	565371.9219	1078043.3452	LELS
4171	927.51	223.64	565361.5106	1078010.2940	LAW E
4172	932.44	221.67	565359.3406	1078005.8682	RB
4173	971.95	220.94	565343.0821	1077969.8616	RB CL 2.7' DEEP
4174	991.26	223.39	565330.8275	1077954.9426	LAW E
4175	995.20	225.19	565328.3601	1077951.8609	LELB
4176	1016.74	230.27	565318.5752	1077932.6715	LELB
4177	1054.22	227.48	565304.5251	1077897.9251	LELB
4178	1108.69	228.15	565283.4098	1077847.7130	LELS
4692	1202.73	229.00	565270.2546	1077754.6030	LELS
4691	1406.94	233.38	565197.1794	1077563.9140	LELS
4690	1603.17	233.34	565126.6647	1077380.7940	LELS
4689	1787.89	234.34	565062.6136	1077207.5330	LELS
4688	1927.59	236.57	565009.9332	1077078.1430	LELS
4687	2026.01	241.42	564978.1775	1076984.9870	LELS
4682	2148.19	243.67	564938.5000	1076869.4340	LELS
4683	2195.07	244.63	564936.8456	1076822.5770	LELS
4684	2244.30	246.68	564939.4758	1076773.4230	PE
4685	2266.05	248.27	564941.1702	1076751.7350	PRC
4686	2287.50	248.83	564942.4547	1076730.3250	PE
1303	2406.95	235.60	564951.3445	1076611.2053	LAW A
1304	2525.32	236.82	564956.5039	1076492.9466	LELS
1305	2689.47	236.82	564967.2113	1076329.1528	LELS
1306	2825.36	235.51	564974.4624	1076193.4477	LELS
1307	2944.10	236.28	564979.7035	1076074.8273	LELS
1308	2994.46	236.80	564984.7426	1076024.7198	LELB
1309	3053.88	236.49	564987.4870	1075965.3621	LELB
1310	3112.51	234.55	564991.3636	1075906.8624	LELS
6202	3159.45	232.69	564994.8666	1075860.0509	LELB LAW A

6203	3195.96	218.41	565016.9375	1075830.9668	LAWE
6204	3206.18	216.74	565019.5178	1075821.0802	RB
6205	3236.54	213.78	565037.1316	1075796.3518	RB CL 4.6' DEEP
6206	3270.99	215.11	565051.4126	1075765.0005	RB
6207	3288.34	218.68	565059.2007	1075749.4968	LAWE
6208	3322.80	241.24	565078.0258	1075720.6401	LELB LAWA
6209	3355.93	242.34	565099.3660	1075695.2968	PE
6210	3374.41	241.96	565108.9451	1075679.4872	PRC
6211	3392.18	241.96	565118.3086	1075664.3870	PE
6283	3431.46	241.83	565138.6086	1075630.7590	LELB
6282	3445.33	243.20	565144.4556	1075618.1850	PE

## SECTION 40

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 40 - 1450' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
1258	0.00	236.57	564944.1805	1076064.3385	LELS
1257	90.01	236.37	564857.9986	1076038.3616	LELS
1256	150.29	234.86	564800.5283	1076020.1682	LELB
1255	166.57	233.37	564784.7453	1076016.2066	LELB LAWA
1254	188.26	226.94	564765.4405	1076006.3033	LELB
1253	198.74	218.71	564756.2336	1076001.3103	LAWE
1252	202.10	217.00	564752.8824	1076001.5874	RB
1251	226.66	216.62	564729.7474	1075993.3395	RB
1250	258.32	215.80	564698.1981	1075990.6966	RB CL 2.9' DEEP
1249	283.72	215.83	564673.0154	1075987.3879	RB
1248	295.38	216.34	564662.2799	1075982.8250	RB
1247	305.74	215.45	564652.8355	1075978.5740	RB
1246	317.12	215.05	564642.0717	1075974.8707	RB
1245	318.52	218.39	564640.7047	1075974.5884	LAWE
1244	334.28	227.59	564627.1878	1075966.4838	LELB
1243	366.77	234.48	564595.6298	1075958.7444	LELB LAWA
1242	373.15	233.93	564589.4178	1075957.2954	LELB
1241	400.20	234.92	564563.4462	1075949.7404	LELS
1240	440.08	236.40	564536.3022	1075920.5200	LELB
1239	478.70	241.80	564511.9454	1075890.5537	LELB
1238	507.51	242.61	564493.4591	1075868.4519	RDU
1237	518.60	242.77	564486.3199	1075859.9749	RDU
1236	552.57	242.57	564466.3747	1075832.4743	LABL
1235	662.23	243.69	564388.7816	1075754.9854	LAWA LABL
1234	670.25	243.96	564382.8317	1075749.6046	LELB
1233	683.19	248.02	564372.5161	1075741.7851	LELB LAWA
1232	688.03	248.59	564371.8608	1075736.9930	PE



## SECTION 41

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 41 - 2050' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
6284	0.00	246.49	564862.7250	1076773.1770	PE LELB
1314	109.30	238.33	564783.4639	1076697.9195	LELS
1315	229.80	237.96	564699.9912	1076611.0177	LELS
1259	289.19	237.50	564656.2359	1076570.8489	LELS
1260	297.61	237.56	564648.3042	1076568.0273	LAWA LELB
1261	314.06	226.91	564632.0955	1076565.2194	LELB
1262	326.69	218.89	564619.9349	1076561.8243	LAWE
1263	334.40	217.12	564613.1304	1076558.1974	RB
1264	349.92	216.14	564597.9370	1076555.0406	RB
1265	366.43	215.30	564583.3307	1076547.3422	RB CL 3.6' DEEP
1266	396.13	216.58	564555.2102	1076537.7664	RB
1267	413.02	216.70	564539.9555	1076530.5226	RB
1268	431.61	216.67	564522.8684	1076523.2079	RB
1269	436.31	218.71	564518.4542	1076521.5733	LAWE
1270	448.31	229.00	564506.8010	1076518.7444	LELB
1271	454.46	230.46	564501.4371	1076515.7337	LELB
1272	462.83	234.21	564493.7236	1076512.4724	LELB LAWА
4017	581.38	235.52	564409.6113	1076428.9324	LELS
4016	735.87	233.43	564314.0105	1076307.5731	LELS
4015	892.27	236.20	564217.3966	1076184.5862	LELB
4014	1000.81	245.13	564150.0903	1076099.4275	LELB
4013	1081.87	244.05	564104.5958	1076032.3478	LABL
1130	1231.26	245.09	564009.3865	1075917.2288	LELB LAWА LABL
1129	1243.96	247.84	564000.3464	1075908.3060	LAWА LELB
1128	1249.31	248.35	563998.6252	1075903.2326	PE

## SECTION 42

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 42 - 2500' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4158	0.00	278.12	565289.1382	1079175.0947	LELB
4159	96.65	232.94	565254.5478	1079084.8492	RDU LELB
4160	110.09	232.79	565250.3885	1079072.0620	RDU
4161	177.99	230.20	565232.1737	1079006.6528	LELB
4162	190.00	230.95	565226.1936	1078996.2429	LELB
4163	271.57	232.38	565198.6917	1078919.4510	LELB
4164	454.57	232.39	565133.1723	1078748.5789	LELS
4165	675.87	232.64	565065.8478	1078537.7643	LELS
4139	958.49	229.96	564969.9482	1078271.9160	LAWA
4140	1014.96	229.28	564952.7176	1078218.1395	LELB
4141	1025.12	225.25	564944.4115	1078212.2907	LAWE
4142	1029.92	222.82	564943.2402	1078207.6330	RB
4143	1048.86	224.64	564940.7588	1078188.8573	RB CL 0.6' DEEP
4144	1059.29	225.33	564939.3896	1078178.5211	LAWE
4145	1068.56	227.23	564938.1234	1078169.3334	LELS
4146	1070.36	225.35	564937.4830	1078167.6531	LAWE
6114	1082.34	221.22	564943.0440	1078157.0378	RB CL 4.0' DEEP
6115	1092.20	223.37	564945.2804	1078147.4320	RB
6116	1095.28	224.88	564946.8272	1078144.7714	LAWE
6117	1101.56	225.75	564948.5641	1078138.7362	LELB
6118	1158.90	227.55	564944.6411	1078081.5299	LELB
6119	1188.39	229.33	564933.9543	1078054.0443	LELB
6120	1268.71	228.93	564929.8596	1077973.8332	LELS
1295	1403.57	229.83	564912.4054	1077840.1072	LELS
1296	1557.99	231.54	564832.3185	1077708.0746	LELS
1297	1714.20	233.88	564748.9693	1077575.9572	LELS
1298	1873.78	234.91	564664.9013	1077440.3259	LELS
1299	2012.56	235.97	564593.1207	1077321.5410	LELS
1300	2117.36	236.44	564537.9688	1077232.4264	LELS
1301	2244.71	236.94	564470.1579	1077124.6351	LELS
1302	2320.00	236.91	564430.0717	1077060.9073	LELB
4446	2329.12	238.82	564422.6653	1077055.5874	PE
4445	2348.24	239.50	564413.6150	1077038.7378	PRC
4444	2366.47	238.78	564405.2615	1077022.5432	PE LELB
4442	2383.23	235.30	564398.7151	1077007.1076	LAWA LELB
1286	2423.21	235.96	564368.1812	1076981.3047	LELB
1285	2439.03	228.21	564362.0660	1076966.7138	LELB
1284	2447.36	218.99	564358.1394	1076959.3675	LAWE
1283	2455.39	217.31	564352.2691	1076953.8919	RB
1282	2472.96	216.12	564345.3778	1076937.7295	RB

1281	2496.32	216.75	564337.0243	1076915.9151	RB CL 2.2' DEEP
1280	2529.14	217.88	564323.9919	1076885.7941	RB
1279	2562.84	217.50	564311.2102	1076854.6054	RB
1278	2572.59	217.34	564309.8564	1076844.9490	RB
1277	2580.73	218.99	564302.6702	1076841.1326	LAWE
1276	2584.93	220.76	564300.6794	1076837.4369	LELB
1275	2588.76	221.00	564299.2802	1076833.8725	LELB
1274	2592.22	224.02	564296.3427	1076832.0409	LELB
1273	2608.96	235.29	564286.3153	1076818.6390	LELB LAWA
1049	2613.22	234.84	564282.1063	1076817.9556	LELB LAWA
1048	2618.18	235.40	564279.0107	1076814.0751	LELB
1047	2660.70	236.40	564257.1281	1076777.6214	LELS
1046	2717.73	236.90	564225.7137	1076730.0312	LELS
1045	2770.13	236.51	564199.1763	1076684.8484	LELS
1044	2878.40	235.87	564142.4890	1076592.6020	LELS
1043	2981.46	234.71	564087.5853	1076505.3799	LELS
1042	3078.79	234.10	564036.0775	1076422.8022	LELS
1041	3187.53	235.45	563979.7798	1076329.7646	LELB
1040	3188.51	236.27	563979.1923	1076328.9806	LELB
1039	3193.53	237.64	563976.7235	1076324.6049	LELB
1038	3252.16	245.04	563945.1422	1076275.2133	LELB
1037	3326.45	244.62	563906.2990	1076211.8873	LELS
1036	3407.72	244.01	563864.4129	1076142.2418	LABL
1124	3547.90	244.98	563791.1973	1076022.7048	LABL LAWA
1125	3552.82	245.01	563790.1225	1076017.8989	LELB
1126	3569.37	248.75	563780.2479	1076004.6233	LAWA LELB
1127	3573.74	248.67	563778.7877	1076000.4999	PE

### SECTION 43

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 43 - 3000' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4135	0.00	255.92	565085.8792	1079241.0648	LELS
4134	108.52	234.44	565030.4573	1079147.7663	LELB RDU
4133	125.44	235.04	565018.2308	1079136.0670	RDU LELB
4132	170.34	230.47	564996.0647	1079097.0166	LELB
4131	235.09	232.67	564966.9739	1079039.1753	LELB
4122	359.58	232.12	564900.8869	1078933.6779	LELS
4123	591.72	232.34	564787.3361	1078731.2031	LELS
4124	744.98	230.30	564707.2260	1078600.5491	LELB
4125	764.85	232.01	564698.5211	1078582.6843	LELB LAWA
4136	778.20	230.14	564685.2653	1078581.1255	LELB
4137	835.71	230.77	564658.2557	1078530.3450	LELS
4138	906.32	229.71	564632.4635	1078464.6138	LELS
4464	1151.88	232.30	564490.6265	1078264.1577	LELB
4463	1256.53	231.50	564466.0239	1078162.4434	LELB
4462	1261.72	228.09	564464.5468	1078157.4678	LAWE
4461	1272.37	227.09	564456.9058	1078150.0575	RB
4460	1292.81	227.79	564445.8119	1078132.8899	RB CL 0.3' DEEP
4459	1313.01	227.45	564437.8816	1078114.3034	RB
4457	1323.91	226.88	564433.1210	1078104.4977	RB
4465	1335.22	228.23	564428.3721	1078094.2380	LAWE
4456	1339.59	233.53	564424.0352	1078094.7626	LELB
4455	1368.01	232.47	564408.0232	1078071.2843	LELB LAWA
4028	1523.06	232.59	564325.9743	1077939.7236	LELS
4027	1669.91	233.19	564252.1245	1077812.7931	LELS
4026	1813.54	236.42	564179.7899	1077688.7060	LELS
4025	1958.79	236.92	564107.7632	1077562.5647	LELS
4024	2103.33	235.21	564033.0622	1077438.8292	LELS
4023	2250.16	234.78	563960.2987	1077311.2978	LELB
4022	2259.70	237.95	563956.3389	1077302.6210	LELB
4436	2261.09	238.39	563956.3299	1077301.2269	PE
4437	2279.56	238.95	563948.5158	1077284.4945	PRC
4438	2298.59	238.01	563939.9134	1077267.5160	PE
4439	2303.02	237.33	563938.0622	1077263.4904	LELB
4440	2313.27	233.27	563933.4603	1077254.3384	LELB
4441	2329.84	232.19	563926.1286	1077239.4743	LAWA
4447	2345.92	231.04	563914.6257	1077228.2377	LELB
4448	2376.86	219.45	563897.3968	1077202.5392	LAWE LELB
4449	2391.77	217.97	563887.3203	1077191.5490	RB
4450	2432.92	217.77	563866.0136	1077156.3454	RB CL 1.7' DEEP
4451	2468.00	217.06	563849.8084	1077125.2359	RB

4452	2488.86	219.10	563838.1270	1077107.9447	LAWE LELB
4453	2499.69	227.84	563833.1622	1077098.3263	LELB
4454	2519.29	229.24	563822.1930	1077082.0762	LELB
4012	2543.81	237.16	563813.8819	1077059.0162	LAWA LELB
4011	2696.00	236.08	563736.5572	1076927.9337	LELS
4010	2835.04	236.41	563666.7269	1076807.6954	LELS
4009	2977.77	235.52	563595.9132	1076683.7703	LELS
4008	3117.74	237.53	563599.1427	1076543.8353	LELS
4007	3279.41	237.79	563604.6072	1076382.2646	LELB
4006	3345.00	244.48	563606.6697	1076316.7022	LELB
4005	3424.29	244.38	563609.0501	1076237.4480	LELS
4004	3534.47	244.85	563612.1107	1076127.3166	LELS
1120	3568.55	246.13	563610.9340	1076093.2508	LELB LAWA
1122	3580.11	248.78	563609.3538	1076081.8012	LELB LAWA
1123	3586.64	248.63	563611.6987	1076075.7093	PE

## SECTION 44

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 44 - 3450' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4120	0.00	259.25	564433.3683	1079197.7234	LELS
4119	39.04	247.82	564418.7908	1079161.5063	LELB
4118	55.94	237.51	564410.3050	1079146.8905	RDU LELB
4117	73.44	237.47	564402.2004	1079131.3828	RDU
4116	79.42	233.76	564396.8768	1079128.6554	LELB
4115	173.72	232.54	564352.9216	1079045.2255	LELS
4114	270.04	234.37	564304.9279	1078961.7122	LELS
4107	399.87	233.62	564248.3507	1078844.8566	LELB LAWA
4108	405.85	231.53	564248.4942	1078838.8817	DD
4109	411.87	233.54	564245.9238	1078833.4365	LELB
4110	519.40	234.16	564192.5632	1078740.0866	LELS
4111	547.63	234.52	564176.8206	1078716.6503	LELB
4112	550.18	230.06	564175.9526	1078714.2534	LELB
4113	606.91	237.69	564145.7630	1078666.2220	LELB
4127	682.11	234.40	564107.8691	1078601.2721	LELS
4128	713.59	235.76	564092.8150	1078573.6242	LELB
4129	779.11	233.72	564062.0530	1078515.7697	LELB
4554	799.54	227.29	564063.2645	1078495.3795	LAW E
4553	817.55	225.90	564058.6670	1078477.9653	RB CL 1.4' DEEP
4552	834.36	226.25	564048.4827	1078464.5901	RB
4551	849.18	227.30	564040.5873	1078452.0522	LAW E
4550	860.50	229.31	564041.1803	1078440.7401	LELB
4549	876.54	228.63	564028.0410	1078431.5465	LELS
4548	890.08	227.77	564021.5523	1078419.6679	LELB
4547	891.19	226.81	564020.6604	1078418.9952	LAW E
4546	898.36	221.76	564015.6481	1078413.8782	RB
4545	916.98	222.56	564004.9898	1078398.5992	RB
4544	920.95	226.54	564003.7805	1078394.8218	LAW E
4543	927.82	230.37	564003.6810	1078387.9530	LELB
4542	946.08	230.49	563996.4195	1078371.1999	LELB
4541	973.92	228.40	563986.9372	1078345.0201	LELB LAWA
4540	1000.20	229.75	563977.1212	1078320.6457	LELB
4539	1083.81	229.58	563925.6372	1078254.7702	LAW A
4538	1192.95	229.89	563875.3632	1078157.8983	LELB
4537	1213.19	227.36	563873.8811	1078137.7104	LAW E
4536	1222.33	226.14	563870.8375	1078129.0933	RB CL 1.2' DEEP
4535	1233.22	226.19	563866.8590	1078118.9565	RB
4534	1242.09	227.58	563863.1125	1078110.9190	LAW E
4533	1265.50	227.36	563859.7599	1078087.7508	LELB
4532	1275.10	229.46	563854.4187	1078079.7721	LELB LAWA

1294	1311.90	234.37	563828.5725	1078053.5707	LELS
1293	1359.34	234.13	563807.6509	1078010.9970	LELS
1292	1480.57	235.07	563750.6673	1077903.9941	LELB
1291	1510.35	236.75	563736.4232	1077877.8345	LELB
1290	1616.08	238.52	563686.5336	1077784.6245	LELS
1289	1741.29	239.88	563629.5686	1077673.1206	LELS
1288	1903.89	240.36	563552.0236	1077530.1962	LELS
4435	1925.06	239.52	563540.1739	1077512.6560	PE
4434	1943.38	238.94	563533.0159	1077495.7978	PRC
4433	1963.70	237.26	563520.5584	1077479.7456	PE
4432	1972.02	237.40	563517.6166	1077471.9585	LELB
4431	1989.80	236.58	563509.2612	1077456.2667	LAWA LELB
1142	2020.19	220.63	563482.7913	1077441.3357	LELB LAWA
1141	2026.93	219.30	563481.6752	1077434.6904	LAWE
1140	2042.18	218.30	563481.5869	1077419.4386	RB
1139	2069.92	218.49	563469.7159	1077394.3612	RB
1138	2114.24	218.45	563455.5867	1077352.3618	RB CL 0.8' DEEP
1137	2143.26	217.68	563444.8289	1077325.4040	RB
1136	2158.66	217.83	563430.0072	1077321.2214	RB
1135	2173.58	218.23	563433.9889	1077306.8430	RB
1134	2174.42	219.34	563433.2851	1077306.3874	LAWE
1133	2179.07	225.04	563429.4343	1077303.7752	LELB LAWA
1132	2190.19	228.18	563426.2993	1077293.1086	LELB
1131	2200.78	236.51	563420.8570	1077284.0301	LAWA LELB
1034	2245.07	236.39	563400.8780	1077244.4992	LELS
1033	2293.02	237.40	563379.5464	1077201.5571	LELS
1032	2380.59	236.88	563337.3265	1077124.8316	LELS
1031	2462.74	236.77	563299.4741	1077051.9279	LELS
1030	2554.20	236.93	563257.0030	1076970.9255	LELS
1029	2649.42	236.68	563212.3966	1076886.7927	LELS

## SECTION 45

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 45 - 4000' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4101	0.00	264.66	564198.3650	1079323.3673	LELB
4099	42.35	236.65	564182.1609	1079284.2414	LELB LAWA
4100	53.44	234.26	564177.5122	1079274.1706	LELB
4098	172.51	234.94	564117.3877	1079171.3937	LELS
4102	399.02	235.13	564001.8131	1078976.5943	LAWA
4103	439.07	235.83	563982.0865	1078941.7309	LELS
4104	499.39	235.72	563935.3159	1078903.6498	LELS
4105	514.48	241.59	563921.8130	1078896.8996	LELB
4106	528.91	233.40	563909.9328	1078888.7188	LAWA
4577	550.85	231.93	563888.2089	1078885.6487	RB
4576	571.02	231.99	563871.3659	1078874.5538	RB CL 1.4' DEEP
4575	591.95	232.06	563854.3832	1078862.3216	RB
4574	604.09	233.06	563843.6122	1078856.7070	LAWA
4573	606.85	236.65	563841.1573	1078855.4456	LELB
4572	627.31	236.66	563824.0514	1078844.2294	LELB
4570	662.12	235.57	563792.6597	1078829.1874	LELS
4569	732.68	235.49	563732.3652	1078792.5343	LAWA
4568	841.41	237.54	563637.3742	1078739.6295	LELS
4556	942.90	237.24	563551.4809	1078685.5595	LELS
4557	971.67	237.24	563537.2671	1078660.5488	LELB
4558	1033.30	236.16	563508.6301	1078605.9730	LELB
4560	1182.36	237.19	563428.6788	1078480.1719	LELB LAWA
4561	1193.03	233.51	563419.7321	1078474.3640	LAWA
4562	1207.36	232.35	563410.0940	1078463.7589	RB CL 1.2 DEEP
4563	1223.58	233.66	563397.7790	1078453.2042	LAWA
4564	1250.95	237.30	563389.9985	1078426.9617	LELB
4565	1276.59	246.89	563382.2584	1078402.5181	LELB
4566	1283.72	244.66	563379.1303	1078396.1090	LELB
4567	1312.78	243.49	563366.2291	1078370.0660	LELB LAWA
1199	1389.78	238.70	563322.7984	1078306.4927	LELB



## SECTION 46

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 46 - 4450' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4531	0.00	236.83	563866.7550	1079568.8615	LELB
4530	20.71	232.25	563854.3509	1079552.2711	LELB
4529	50.64	232.24	563831.2157	1079533.2835	LELB
4528	156.92	232.43	563807.9386	1079429.5878	LELB
4527	240.90	238.27	563758.2608	1079361.8734	LELB
4526	242.05	234.54	563757.3138	1079361.2263	LAWE
4525	253.23	233.01	563748.3288	1079354.5693	RB
4524	280.27	232.66	563727.1997	1079337.6936	RB
4523	306.30	233.24	563706.7658	1079321.5718	RB CL 1.3' DEEP
4522	334.94	232.29	563684.1147	1079304.0529	RB
4521	354.65	234.42	563668.6878	1079291.7827	RB
4520	362.63	234.87	563662.4175	1079286.8488	LAWE
4519	378.63	238.98	563649.8180	1079276.9850	LELB
4518	416.30	238.42	563620.3708	1079253.4961	LELB
4517	516.43	238.16	563541.6692	1079191.5809	LAWA
1184	562.69	238.38	563503.1711	1079165.9423	LELS
1185	664.79	239.09	563424.9098	1079100.3600	LELB
1186	768.13	239.69	563345.2330	1079034.5616	LELB
1187	871.31	240.08	563267.6459	1078966.5403	LELS
1188	977.67	239.20	563186.1149	1078898.2405	LELS
1189	1084.69	239.13	563105.2396	1078828.1569	LELS
1190	1122.55	239.30	563075.2841	1078805.0003	LELB
1191	1161.38	237.86	563045.8945	1078779.6253	LELB
1192	1304.99	238.64	562936.5013	1078686.5791	LELS
1193	1365.21	239.29	562906.3890	1078634.4220	LELB
1194	1388.82	239.21	562895.1826	1078613.6479	LELB
1195	1407.35	237.76	562886.7805	1078597.1330	LELB
1196	1585.29	241.65	562801.5565	1078440.9268	LELS
1198	1710.92	242.35	562744.3966	1078329.0562	LELS
4493	1937.69	243.63	562626.8147	1078135.1513	LELS
4492	2050.08	243.22	562573.1013	1078036.4262	LELS
4491	2218.04	242.76	562500.1723	1077885.1215	LELS
4490	2296.86	242.49	562462.0386	1077816.1446	LELS
4489	2526.64	241.01	562350.1346	1077615.4499	LELB
4488	2582.05	241.12	562328.0723	1077564.6273	LELB
4487	2625.84	242.38	562314.0887	1077523.1302	LELS
4494	2645.76	241.65	562329.0697	1077509.9906	LELB
4495	2663.98	239.42	562342.2383	1077497.4033	LELB
4496	2694.19	239.37	562361.1895	1077473.8801	LELB
4497	2702.33	238.76	562365.7091	1077467.1053	DD

4498	2707.77	240.30	562369.4593	1077463.1712	LELB
4499	2726.49	241.95	562380.6257	1077448.1438	PE
4500	2744.80	242.18	562392.2904	1077434.0363	PRC
4501	2764.40	241.38	562403.6383	1077418.0446	PE
4502	2772.30	240.73	562411.1138	1077415.5120	LELB
4503	2777.03	239.17	562415.2644	1077413.2289	DD
4504	2786.97	241.53	562423.4458	1077407.5954	LELB
4505	2908.89	241.89	562508.1445	1077319.9005	LELB
4507	2931.46	227.02	562524.2701	1077304.1026	LELB
4508	2935.54	220.19	562528.3448	1077303.9006	LAWE
4509	2951.05	217.31	562533.9690	1077289.4510	RB
4510	2990.36	217.05	562562.8275	1077262.7549	RB CL 3.1' DEEP
4511	3040.12	219.11	562593.5954	1077223.6425	RB
4512	3048.06	219.54	562599.1090	1077217.9306	LAWE
1228	3065.44	222.97	562616.4416	1077219.1617	LELB LAWA
1227	3088.15	224.56	562630.1329	1077201.0369	LELB
1226	3099.45	232.00	562635.5536	1077191.1216	LELB
1225	3131.23	238.38	562655.3587	1077166.2691	LELB LAWA
1013	3186.98	238.88	562697.3652	1077129.6234	LELS
1012	3242.05	239.18	562734.3570	1077088.8176	LELS
1011	3334.89	239.27	562800.7655	1077023.9404	LELS
1010	3429.27	237.77	562866.9237	1076956.6333	LELS
1009	3525.90	237.28	562933.9216	1076887.0013	LELS
1008	3622.06	237.02	563001.5532	1076818.6475	LELS

## SECTION 47

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 47 - 4950' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
4515	0.00	249.34	561894.5619	1076824.5153	LELB RDU
4514	19.80	246.54	561912.9913	1076831.7618	LELB
1317	76.62	245.95	561969.8122	1076831.8373	LELB
1316	161.87	244.08	562054.6349	1076823.3954	LELB
1224	331.82	241.26	562224.3023	1076813.4707	LAWA
1223	377.84	241.42	562269.8739	1076807.0668	LELB
1222	386.20	240.36	562278.1532	1076805.8980	LELB
1221	409.49	231.29	562301.0389	1076801.6049	LELB
1220	423.09	219.70	562314.4971	1076799.6275	LAWE LAWA
1219	429.77	216.19	562321.0924	1076798.5880	RB
1218	450.33	216.09	562341.4823	1076795.9359	RB
1217	466.43	216.59	562357.4853	1076794.1670	RB
1216	488.20	217.09	562379.2415	1076793.4328	RB CL 2.6' DEEP
1215	511.44	217.25	562402.4733	1076792.7590	RB
1214	532.11	217.84	562423.0200	1076790.5172	RB
1213	538.25	219.92	562429.1551	1076790.7289	LAWE
1212	544.94	224.19	562434.9616	1076794.0529	LELB LAWA
1211	567.21	224.69	562456.9965	1076790.8329	LELB
1210	581.14	224.17	562470.3825	1076786.9610	LELB
1209	598.88	233.74	562488.0856	1076785.8820	LELB
1208	613.09	237.03	562502.2999	1076786.1181	LELB LAWA
1005	655.38	238.05	562544.4959	1076783.4418	LELS
1006	756.59	238.57	562627.4975	1076725.5221	LELS
1007	861.80	238.50	562714.3887	1076666.1981	LELS
1001	986.22	237.64	562819.3045	1076599.3149	LELS
1002	1099.46	237.45	562865.3193	1076495.8463	LELS
1003	1204.81	237.50	562910.4941	1076400.6714	LELS
1004	1277.4	237.47	562940.8900	1076334.7503	LELS
1202	1315.84	237.90	562956.7301	1076299.7245	LAWA LELB
1203	1327.04	245.11	562960.9350	1076289.3424	LELB
1204	1339.38	247.69	562967.1423	1076278.6806	LELB
1205	1376.01	248.21	562983.3102	1076245.8095	LELB
1206	1389.52	256.54	562985.9428	1076232.5675	LELB
1207	1397.91	257.74	562987.0716	1076224.2526	LELB LAWA
4002	1440.81	258.00	563012.1959	1076189.4794	LELS

## SECTION 48

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 48 - 5950' US of BIN 3347540

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
6093	0.00	253.33	561525.7486	1075875.2240	LELB
6094	103.62	236.42	561628.8922	1075865.3250	LELB
6095	189.64	235.57	561714.1315	1075853.7490	LELB
6098	232.33	234.54	561756.7922	1075852.1120	LELB
6097	246.68	229.11	561770.8579	1075849.2870	DD
6096	252.47	233.07	561774.9286	1075845.1650	LELB
6099	353.77	233.61	561875.2553	1075831.1870	LELS
6100	493.97	234.95	562014.3691	1075813.7400	LELS
6101	697.70	235.10	562216.4971	1075788.2070	LELS
6102	886.95	236.30	562404.0451	1075762.9140	LELS
6103	948.08	235.93	562464.8745	1075756.9000	LELS
6104	1045.98	233.87	562560.5574	1075777.6319	LELB
6105	1065.65	230.91	562576.4047	1075789.2848	LELB
6106	1082.53	219.57	562592.0410	1075795.6431	LAWE
6107	1089.71	218.10	562597.0622	1075800.7768	RB
6108	1116.98	218.62	562620.9917	1075813.8477	RB
6109	1155.15	218.39	562655.0019	1075831.1783	RB CL 1.2' DEEP
6110	1183.10	218.79	562680.2779	1075843.1066	RB
6111	1201.98	219.77	562697.0389	1075851.8109	LAWE
6112	1210.79	220.53	562705.4265	1075854.4895	LELB
4001	1345.73	265.53	562792.3821	1075957.6768	LELS

## SECTION 60

Survey: US 209 over Rochester Creek - Rondout Creek Floodway Encroachment

Traverse: Section 60 - 4450' US of BIN 1040750

<u>Point</u>	<u>Offset Right</u>	<u>Elevation</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>
6149	0.00	248.75	563654.4454	1080303.3482	LELB
6148	31.17	238.56	563636.5844	1080277.8018	LELS
6147	159.38	240.90	563568.7770	1080168.9953	LELS
6146	243.28	235.52	563523.9066	1080098.0934	LELS
6145	346.88	235.76	563469.0760	1080010.1990	LELS
6144	425.19	236.07	563404.7565	1079965.5319	LELS
6143	431.35	235.44	563400.8917	1079960.7318	LELS
6142	536.39	234.69	563359.8001	1079864.0612	LELS
6141	666.35	236.02	563283.2246	1079759.0637	LELB
6140	671.75	233.79	563280.9401	1079754.1672	LAW E
6139	682.73	233.34	563277.9516	1079743.6011	RB CL 0.5 DEEP
6138	692.90	233.78	563272.3556	1079735.1068	LAW E
6137	699.33	236.87	563271.6378	1079728.7163	LELB
6136	789.18	240.24	563245.0667	1079642.8827	LELB
6135	811.51	241.90	563234.3071	1079623.3257	LELB
6134	850.89	241.32	563215.2571	1079588.8597	LELB
6133	852.95	239.25	563214.4592	1079586.9545	LELB
6132	894.34	240.68	563194.6310	1079550.6276	LELS
6131	1033.85	240.48	563126.8239	1079428.6994	LELS
6130	1131.37	240.39	563080.4424	1079342.9226	LELS
6129	1175.11	240.50	563059.9084	1079304.2944	LELS
6128	1212.87	239.36	563042.7947	1079270.6407	LELB
6127	1223.96	238.15	563038.2716	1079260.5092	LAW E
6126	1234.07	237.42	563036.9868	1079250.4855	RB
6125	1248.07	237.09	563029.7597	1079238.4884	RB CL 1.1' DEEP
6124	1260.84	236.72	563022.0408	1079228.3195	RB
6123	1269.35	238.09	563019.4151	1079220.2302	LAW E
1183	1275.24	242.00	563014.0487	1079217.8010	LELB
1182	1350.32	240.77	562979.0352	1079151.3757	LELS
1181	1437.91	241.72	562938.5571	1079073.7005	LELB
1180	1494.37	240.81	562914.2410	1079022.7468	LELS
6122	1594.49	240.08	562872.1000	1078931.9275	LELS
1179	1678.85	241.46	562807.9468	1078877.1482	LELB
1178	1771.11	241.40	562740.9235	1078813.7449	LELB
1177	1806.81	240.34	562714.3214	1078789.9453	LELS
1176	1907.91	241.29	562641.2793	1078720.0444	LELS
1197	2088.43	245.03	562508.7701	1078597.4523	LELS
1175	2228.03	244.66	562409.0672	1078499.7419	LELS
1174	2332.90	244.61	562333.4293	1078427.0985	LELS
1173	2387.03	243.91	562294.0034	1078390.0050	LELS

1172	2505.90	243.82	562207.3783	1078308.6042	LELS
1171	2618.18	244.02	562125.0795	1078232.2326	LELB
1170	2736.50	241.20	562039.9711	1078150.0294	LELS
1169	2842.09	244.51	561963.1056	1078077.6417	LELB
1168	2953.58	254.68	561882.0927	1078001.0375	LELB
1167	2982.67	255.37	561861.1801	1077980.8193	LELB
1166	3058.15	250.85	561805.2402	1077930.1439	LELS
1165	3155.54	245.15	561735.2779	1077862.4016	LELS
1164	3253.31	241.90	561664.5644	1077794.8839	LELS
1163	3351.46	240.52	561592.1727	1077728.5994	LAWA LELB
1162	3372.57	240.22	561578.9452	1077712.1487	LAWE
1161	3374.27	239.98	561577.2505	1077711.9928	RB CL 0.2' DEEP
1160	3376.30	240.35	561575.2472	1077712.2973	LAWE
1159	3378.89	241.11	561573.8127	1077710.1378	LAWA LELB
1158	3431.16	242.90	561535.4091	1077674.6821	LELS
1157	3504.03	247.02	561482.6333	1077624.4243	LELB
1156	3580.53	249.60	561428.0758	1077570.8048	LELB
1155	3670.33	252.44	561362.5147	1077509.4338	LELB
1154	3740.29	253.16	561311.3168	1077461.7657	LELB
1153	3839.84	252.41	561238.7505	1077393.6049	LELS
1152	3959.56	250.20	561151.7980	1077311.3251	LELB
1151	4019.56	250.70	561108.8416	1077269.4283	LELS
1150	4122.93	251.72	561032.7680	1077199.4450	LELS
1149	4226.70	254.75	560958.0770	1077127.4046	LELB
1148	4239.91	256.07	560948.2738	1077118.5431	LELB
1147	4248.42	252.78	560941.7233	1077113.1200	DD
1146	4255.33	255.53	560936.3936	1077108.7255	LELB
1145	4262.10	256.62	560933.6768	1077102.5203	PE

## **SECTION 6**

*Field Notes*

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 CG,A01,G01  
 OC,OP51,N 1076325.122,E 563871.268,EL245.496,--GPS  
 BK,OP51,BP52,BS128.06373,BC128.06373  
 LS,HI5.0800,HR4.9900  
 SS,OP51,FP52,AR128.06373,ZE89.51340,SD,--GPS  
 OC,OP51,N 1076325.122,E 563871.268,EL245.496,--GPS  
 BK,OP51,BP52,BS128.06373,BC128.06373  
 LS,HI5.0800,HR4.9900  
 SS,OP51,FP52,AR128.06373,ZE89.51560,SD,--GPS  
 OC,OP51,N 1076325.122,E 563871.268,EL245.496,--GPS  
 BK,OP51,BP52,BS128.06373,BC0.00000  
 LS,HI5.0800,HR4.9900  
 SS,OP51,FP52,AR0.00000,ZE89.51500,SD534.659,--GPS  
 LS,HI5.0800,HR5.3000  
 SP,PN1120,N 1076093.274,E 563610.960,EL246.133,--XS43 LELB LAWA  
 SK,OP51,FP1120,AR100.11570,ZE89.51340,SD348.624,--XS43 LELB LAWA  
 DP,PN1121  
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 SP,PN1122,N 1076081.826,E 563609.380,EL248.783,--XS43 LELB LAWA  
 SK,OP51,FP1122,AR98.59500,ZE89.26180,SD357.514,--XS43 LELB LAWA  
 LS,HI5.0800,HR9.4300  
 SP,PN1123,N 1076075.734,E 563611.725,EL248.635,--XS43 PE  
 SK,OP51,FP1123,AR98.01580,ZE88.48310,SD360.054,--XS43 PE  
 LS,HI5.0800,HR13.5500  
 SP,PN1124,N 1076022.731,E 563791.219,EL244.984,--XS42 LABL LAWA  
 SK,OP51,FP1124,AR66.43010,ZE88.32350,SD312.939,--XS42 LABL LAWA  
 SP,PN1125,N 1076017.930,E 563790.131,EL245.009,--XS42 LELB  
 SK,OP51,FP1125,AR66.41060,ZE88.33400,SD317.859,--XS42 LELB  
 SP,PN1126,N 1076004.655,E 563780.257,EL248.752,--XS42 LAWA LELB  
 SK,OP51,FP1126,AR67.44380,ZE87.59050,SD333.379,--XS42 LAWA LELB  
 SP,PN1127,N 1076000.532,E 563778.797,EL248.668,--XS42 PE  
 SK,OP51,FP1127,AR67.47280,ZE88.01300,SD337.739,--XS42 PE  
 SP,PN1128,N 1075903.275,E 563998.612,EL248.358,--XS41 PE  
 SK,OP51,FP1128,AR35.05310,ZE88.31390,SD440.839,--XS41 PE  
 SP,PN1129,N 1075908.348,E 564000.333,EL247.844,--XS41 LAWA LELB  
 SK,OP51,FP1129,AR34.40590,ZE88.34490,SD436.479,--XS41 LAWA LELB  
 SP,PN1130,N 1075917.270,E 564009.373,EL245.098,--XS41 LELB LAWA LABL  
 SK,OP51,FP1130,AR33.10580,ZE88.55360,SD430.719,--XS41 LELB LAWA LABL  
 OC,OP51,N 1076325.122,E 563871.268,EL245.496,--GPS  
 BK,OP51,BP52,BS128.06373,BC128.06373  
 LS,HI5.0800,HR4.9900  
 SS,OP51,FP52,AR128.06373,ZE89.51500,SD534.659,--GPS  
 LS,HI5.0800,HR5.3000  
 SP,PN1131,N 1077283.934,E 563420.903,EL236.531,--XS44 LAWA LELB  
 SK,OP51,FP1131,AR334.50240,ZE90.28270,SD1059.458,--XS44 LAWA LELB  
 LS,HI5.0800,HR13.5500  
 SP,PN1132,N 1077293.011,E 563426.344,EL228.206,--XS44 LELB  
 SK,OP51,FP1132,AR335.18450,ZE90.28320,SD1065.398,--XS44 LELB  
 LS,HI5.0800,HR17.5700  
 SP,PN1133,N 1077303.677,E 563429.479,EL225.059,--SX44 LELB LAWA  
 SK,OP51,FP1133,AR335.42080,ZE90.25310,SD1073.798,--SX44 LELB LAWA  
 LS,HI5.0800,HR21.5700  
 SP,PN1134,N 1077306.289,E 563433.329,EL219.365,--XS44 LAWE  
 SK,OP51,FP1134,AR335.56480,ZE90.30550,SD1074.618,--XS44 LAWE  
 SP,PN1135,N 1077306.745,E 563434.033,EL218.254,--XS44 RB  
 SK,OP51,FP1135,AR335.59270,ZE90.34280,SD1074.758,--XS44 RB  
 SP,PN1136,N 1077321.122,E 563430.052,EL217.859,--XS44 RB  
 SK,OP51,FP1136,AR336.06260,ZE90.35150,SD1089.518,--XS44 RB  
 LS,HI5.0800,HR24.9000  
 SP,PN1137,N 1077325.304,E 563444.872,EL217.702,--XS44 RB



SK,OP51,FP1137,AR336.54380,ZE90.25170,SD1087.418,--XS44 RB  
 LS,HI5.0800,HR22.6000  
 SP,PN1138,N 1077352.259,E 563455.629,EL218.475,--XS44 RB  
 SK,OP51,FP1138,AR337.58080,ZE90.29330,SD1108.198,--XS44 RB  
 LS,HI5.0800,HR24.7000  
 SP,PN1139,N 1077394.254,E 563469.756,EL218.516,--XS44 RB  
 SK,OP51,FP1139,AR339.24590,ZE90.22140,SD1142.178,--XS44 RB  
 LS,HI5.0800,HR21.5000  
 SP,PN1140,N 1077419.329,E 563481.626,EL218.330,--XS44 RB  
 SK,OP51,FP1140,AR340.23580,ZE90.31530,SD1161.678,--XS44 RB  
 LS,HI5.0800,HR21.5700  
 SP,PN1141,N 1077434.579,E 563481.715,EL219.325,--XS44 LAWE  
 SK,OP51,FP1141,AR340.39100,ZE90.28230,SD1176.018,--XS44 LAWE  
 LS,HI5.0800,HR16.6000  
 SP,PN1142,N 1077441.224,E 563482.830,EL220.659,--XS44 LELB LAWA  
 SK,OP51,FP1142,AR340.48380,ZE90.38490,SD1181.958,--XS44 LELB LAWA  
 LS,HI5.0800,HR9.4300  
 OF,AR340.38340,ZE90.31170,SD1196.138  
 OF,OL20.000,--Right Angle Offset  
 SS,OP51,FP1143,AR341.36027,ZE90.31167,SD1196.305,--XS44 LELB  
 LS,HI5.0800,HR4.9900  
 SS,OP51,FP1144,AR128.06250,ZE89.51520,SD534.659,--GPS52  
 GS,PN53,N 1076722.663,E 562891.801,EL237.389,--GPS  
 OC,OP53,N 1076722.686,E 562891.787,EL237.401,--GPS  
 BK,OP53,BP51,BS112.05308,BC112.05308  
 LS,HI5.0000,HR5.0300  
 SS,OP53,FP51,AR112.05308,ZE89.33470,SD1057.153,--GPS  
 LS,HI5.0000,HR5.3000  
 SP,PN1202,N 1076299.767,E 562956.723,EL237.899,--XS47 LAWA LELB  
 SK,OP53,FP1202,AR171.16150,ZE89.53370,SD427.919,--XS47 LAWA LELB  
 SP,PN1203,N 1076289.386,E 562960.928,EL245.116,--XS47 LELB  
 SK,OP53,FP1203,AR170.56020,ZE88.57150,SD438.899,--XS47 LELB  
 SP,PN1204,N 1076278.725,E 562967.135,EL247.692,--XS47 LELB  
 SK,OP53,FP1204,AR170.22040,ZE88.39120,SD450.479,--XS47 LELB  
 LS,HI5.0000,HR9.4300  
 SP,PN1205,N 1076245.858,E 562983.301,EL248.219,--XS47 LELB  
 SK,OP53,FP1205,AR169.08090,ZE88.12070,SD485.819,--XS47 LELB  
 LS,HI5.0000,HR5.3000  
 SP,PN1206,N 1076232.617,E 562985.933,EL256.543,--XS47 LELB  
 SK,OP53,FP1206,AR169.07320,ZE87.46110,SD499.459,--XS47 LELB  
 SP,PN1207,N 1076224.303,E 562987.062,EL257.746,--XS47 LELB LAWA  
 SK,OP53,FP1207,AR169.10390,ZE87.40150,SD507.879,--XS47 LELB LAWA  
 SP,PN1208,N 1076786.112,E 562502.339,EL237.029,--XS47 LELB LAWA  
 SK,OP53,FP1208,AR279.15000,ZE90.00390,SD394.619,--XS47 LELB LAWA  
 LS,HI5.0000,HR9.4300  
 SP,PN1209,N 1076785.876,E 562488.126,EL233.745,--XS47 LELB  
 SK,OP53,FP1209,AR278.53490,ZE89.53310,SD408.619,--XS47 LELB  
 LS,HI5.0000,HR17.5700  
 SP,PN1210,N 1076786.955,E 562470.425,EL224.169,--XS47 LELB  
 SK,OP53,FP1210,AR278.40200,ZE90.05220,SD426.279,--XS47 LELB  
 SP,PN1211,N 1076790.826,E 562457.040,EL224.692,--XS47 LELB  
 SK,OP53,FP1211,AR278.54280,ZE90.01070,SD440.099,--XS47 LELB  
 LS,HI5.0000,HR21.5700  
 SP,PN1212,N 1076794.046,E 562435.007,EL224.193,--XS47 LELB LAWA  
 SK,OP53,FP1212,AR278.52450,ZE89.35020,SD462.379,--XS47 LELB LAWA  
 LS,HI5.0000,HR25.5000  
 SP,PN1213,N 1076790.722,E 562429.202,EL219.923,--XS47 LAWE  
 SK,OP53,FP1213,AR278.22010,ZE89.37490,SD467.619,--XS47 LAWE  
 LS,HI5.0000,HR21.5700  
 SP,PN1214,N 1076790.510,E 562423.067,EL217.846,--XS47 RB  
 SK,OP53,FP1214,AR278.14010,ZE90.21420,SD473.659,--XS47 RB  
 SP,PN1215,N 1076792.752,E 562402.522,EL217.255,--XS47 RB  
 SK,OP53,FP1215,AR278.08590,ZE90.24540,SD494.319,--XS47 RB

SP,PN1216,N 1076793.426,E 562379.293,EL217.094,--XS47 RB  
 SK,OP53,FP1216,AR277.51320,ZE90.24520,SD517.419,--XS47 RB  
 SP,PN1217,N 1076794.160,E 562357.539,EL216.600,--XS47 RB  
 SK,OP53,FP1217,AR277.37120,ZE90.27010,SD539.079,--XS47 RB  
 SP,PN1218,N 1076795.929,E 562341.537,EL216.097,--XS47 RB  
 SK,OP53,FP1218,AR277.34550,ZE90.29210,SD555.179,--XS47 RB  
 SP,PN1219,N 1076798.580,E 562321.150,EL216.193,--XS47 RB  
 SK,OP53,FP1219,AR277.34330,ZE90.27440,SD575.739,--XS47 RB  
 LS,HI5.0000,HR20.5700  
 SP,PN1220,N 1076799.620,E 562314.555,EL219.709,--XS47 LAWE LAWA  
 SK,OP53,FP1220,AR277.35300,ZE90.12340,SD582.399,--XS47 LAWE LAWA  
 LS,HI5.0000,HR9.4300  
 SP,PN1221,N 1076801.597,E 562301.098,EL231.299,--XS47 LELB  
 SK,OP53,FP1221,AR277.36330,ZE90.09410,SD595.999,--XS47 LELB  
 LS,HI5.0000,HR5.3000  
 SP,PN1222,N 1076805.890,E 562278.215,EL240.363,--XS47 LELB  
 SK,OP53,FP1222,AR277.43210,ZE89.41560,SD619.259,--XS47 LELB  
 LS,HI5.0000,HR4.0000  
 SP,PN1223,N 1076807.058,E 562269.937,EL241.427,--XS47 LELB  
 SK,OP53,FP1223,AR277.43360,ZE89.43280,SD627.619,--XS47 LELB  
 LS,HI5.0000,HR4.5000  
 SP,PN1224,N 1076813.462,E 562224.370,EL241.271,--XS47 LAWA  
 SK,OP53,FP1224,AR277.44430,ZE89.42510,SD673.639,--XS47 LAWA  
 LS,HI5.0000,HR5.3000  
 SP,PN1225,N 1077166.224,E 562655.383,EL238.383,--XS46 LELB LAWA  
 SK,OP53,FP1225,AR331.56330,ZE89.51160,SD502.659,--XS46 LELB LAWA  
 LS,HI5.0000,HR12.2000  
 SP,PN1226,N 1077191.074,E 562635.579,EL232.003,--XS46 LELB  
 SK,OP53,FP1226,AR331.19170,ZE89.48260,SD533.939,--XS46 LELB  
 LS,HI5.0000,HR19.5700  
 SP,PN1227,N 1077200.989,E 562630.159,EL224.566,--XS46 LELB  
 SK,OP53,FP1227,AR331.19180,ZE89.49060,SD545.239,--XS46 LELB  
 LS,HI5.0000,HR18.2000  
 SP,PN1228,N 1077219.112,E 562616.469,EL222.977,--XS46 LELB LAWA  
 SK,OP53,FP1228,AR330.59140,ZE90.07270,SD567.719,--XS46 LELB LAWA  
 LS,HI5.0000,HR5.3000  
 SP,PN1229,N 1077382.659,E 562964.361,EL238.034,--XS45 LELB LAWA  
 SK,OP53,FP1229,AR6.16310,ZE89.55130,SD664.019,--XS45 LELB LAWA  
 SP,PN1230,N 1077390.025,E 562963.406,EL236.833,--XS45 LELB  
 SK,OP53,FP1230,AR6.07320,ZE90.01250,SD671.239,--XS45 LELB  
 LS,HI5.0000,HR5.0300  
 SS,OP53,FP1231,AR112.05210,ZE89.33590,SD1057.158,--CB51  
 OC,OP52,N 1075995.118,E 564291.981,EL246.876,--GPS  
 BK,OP52,BP51,BS308.06373,BC308.06373  
 LS,HI5.0100,HR5.0300  
 SS,OP52,FP51,AR308.06373,ZE90.08540,SD534.659,--GPS  
 LS,HI5.0100,HR17.5700  
 SP,PN1232,N 1075737.019,E 564371.853,EL248.590,--XS40 PE  
 SK,OP52,FP1232,AR162.48170,ZE86.58350,SD270.579,--XS40 PE  
 SP,PN1233,N 1075741.810,E 564372.508,EL248.021,--XS40 LELB LAWA  
 SK,OP52,FP1233,AR162.21520,ZE87.02560,SD266.179,--XS40 LELB LAWA  
 LS,HI5.0100,HR21.5700  
 SP,PN1234,N 1075749.629,E 564382.823,EL243.962,--XS40 LELB  
 SK,OP52,FP1234,AR159.41360,ZE87.00590,SD262.139,--XS40 LELB  
 LS,HI5.0100,HR17.5700  
 SP,PN1235,N 1075755.009,E 564388.772,EL243.692,--XS40 LAWA LABL  
 SK,OP52,FP1235,AR158.02420,ZE87.55350,SD259.079,--XS40 LAWA LABL  
 LS,HI5.0100,HR5.3000  
 SP,PN1236,N 1075832.491,E 564466.357,EL242.573,--XS40 LABL  
 SK,OP52,FP1236,AR133.00120,ZE90.57520,SD238.500,--XS40 LABL  
 SP,PN1237,N 1075859.989,E 564486.300,EL242.769,--XS40 RDU  
 SK,OP52,FP1237,AR124.48530,ZE90.55270,SD236.740,--XS40 RDU  
 SP,PN1238,N 1075868.465,E 564493.438,EL242.615,--XS40 RDU

SK,OP52,FP1238,AR122.09250,ZE90.57220,SD238.020,--XS40 RDU  
 SP,PN1239,N 1075890.564,E 564511.923,EL241.797,--XS40 LELB  
 SK,OP52,FP1239,AR115.25300,ZE91.07360,SD243.600,--XS40 LELB  
 SP,PN1240,N 1075920.527,E 564536.278,EL236.399,--XS40 LELB  
 SK,OP52,FP1240,AR106.58440,ZE92.17020,SD255.659,--XS40 LELB  
 SP,PN1241,N 1075949.745,E 564563.419,EL234.918,--SECT40  
 CF,EL234.918,GD0.000  
 DE,PN187,N 1075947.700,E 564566.600,EL0.000,--SECT40  
 SD,ND-2.045,ED3.181,LD-234.918  
 SK,OP52,FP1241,AR99.29230,ZE92.25400,SD275.479,--SECT40  
 SP,PN1242,N 1075957.299,E 564589.388,EL233.929,--XS40 LELB  
 SK,OP52,FP1242,AR97.14490,ZE92.25030,SD300.099,--XS40 LELB  
 SP,PN1243,N 1075958.748,E 564595.600,EL234.484,--XS40 LELB LAWA  
 SK,OP52,FP1243,AR96.49510,ZE92.15590,SD306.059,--XS40 LELB LAWA  
 LS,HI5.0100,HR13.5500  
 SP,PN1244,N 1075966.487,E 564627.155,EL227.596,--XS40 LELB  
 SK,OP52,FP1244,AR94.52570,ZE91.49440,SD336.599,--XS40 LELB  
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SP,PN4035,N 1076767.314,E 567376.822,EL214.185,--XS20 RB

SK,OP55,FP4035,AR209.50139,ZE90.01599,SD466.713,--XS20 RB

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SP,PN4040,N 1077161.618,E 567169.395,EL226.693,--XS21 LELB

SK,OP55,FP4040,AR141.19543,ZE90.51093,SD270.859,--XS21 LELB

SP,PN4041,N 1077164.948,E 567213.687,EL231.389,--XS21 LELB LAWA

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SP,PN4043,N 1077166.253,E 567234.315,EL227.728,--XS21 LELB

SK,OP55,FP4043,AR148.10582,ZE90.31394,SD325.417,--XS21 LELB

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SK,OP55,FP4046,AR112.45392,ZE89.56407,SD485.722,--XS22 LELB

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SK,OP55,FP4047,AR92.30592,ZE90.04583,SD367.905,--XS23 LELB

LS,HI4.9100,HR9.4300

SP,PN4048,N 1077359.642,E 566960.221,EL229.926,--XS23 LELB LAWA  
SK,OP55,FP4048,AR91.26086,ZE89.29259,SD374.658,--XS23 LELB LAWA

LS,HI4.9100,HR5.3000

SP,PN4049,N 1077218.424,E 566633.315,EL233.852,--XS24 LELB LAWA  
SK,OP55,FP4049,AR37.13464,ZE89.33270,SD404.845,--XS24 LELB LAWA

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LS,HI4.9100,HR25.5000

SP,PN4051,N 1077239.224,E 566636.789,EL218.205,--XS24 LAWE  
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LS,HI5.1400,HR17.5700

SP,PN4054,N 1077381.444,E 566353.243,EL221.994,--XS25 LELB  
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LS,HI5.1400,HR21.5700

SP,PN4055,N 1077406.611,E 566372.341,EL224.070,--XS25 LELB  
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SP,PN4056,N 1077411.665,E 566378.875,EL218.427,--XS25 LAWE  
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SK,OP54,FP4057,AR280.03138,ZE90.14494,SD543.886,--XS26 LELB LAWA  
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SP,PN4068,N 1077505.979,E 566099.418,EL218.751,--XS30 LAWE LAWA



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SK,OP54,FP4088,AR145.07322,ZE88.14567,SD633.946,--SECT33  
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SP,PN4089,N 1076493.704,E 565664.962,EL237.151,--XS33  
SK,OP54,FP4089,AR137.35534,ZE89.20405,SD660.270,--XS33  
LS,HI5.1400,HR5.3000  
SP,PN4090,N 1076432.037,E 565688.471,EL238.407,--XS33  
SK,OP54,FP4090,AR132.33445,ZE89.36400,SD689.283,--XS33  
LS,HI5.1400,HR9.4300  
SP,PN4091,N 1076349.484,E 565717.424,EL241.196,--XS33  
SK,OP54,FP4091,AR126.40126,ZE89.05553,SD737.176,--XS33

SP,PN4092,N 1076245.007,E 565761.145,EL240.689,--XS33 RDU  
SK,OP54,FP4092,AR119.51227,ZE89.12355,SD803.941,--XS33 RDU  
SP,PN4093,N 1076229.805,E 565767.086,EL240.907,--XS33 RDU  
SK,OP54,FP4093,AR118.59149,ZE89.12178,SD814.706,--XS33 RDU  
LS,HI5.1400,HR5.3000  
SP,PN4094,N 1076134.620,E 565803.033,EL241.619,--XS33  
SK,OP54,FP4094,AR114.07129,ZE89.29254,SD886.406,--XS33  
LS,HI5.1400,HR9.4300  
SP,PN4095,N 1075974.511,E 565867.822,EL243.829,--XS33  
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LS,HI5.1400,HR5.3000  
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LS,HI4.7900,HR4.5300  
SS,OP58,FP56,AR0.00000,ZE90.07532,SD1412.735,--GPS  
LS,HI4.7900,HR5.3000  
SP,PN4098,N 1079171.386,E 564117.403,EL234.939,--XS45  
SK,OP58,FP4098,AR183.31200,ZE89.16068,SD176.022,--XS45  
SP,PN4099,N 1079284.222,E 564182.170,EL236.656,--XS45 LELB LAWA  
SK,OP58,FP4099,AR221.14479,ZE88.55483,SD212.276,--XS45 LELB LAWA  
LS,HI4.7900,HR9.4300  
SP,PN4100,N 1079274.152,E 564177.522,EL234.266,--XS45 LELB  
SK,OP58,FP4100,AR218.50559,ZE88.24337,SD205.485,--XS45 LELB  
LS,HI4.7900,HR5.3000  
SP,PN4101,N 1079323.344,E 564198.373,EL264.657,--XS45 LELB  
SK,OP58,FP4101,AR228.45572,ZE82.29148,SD244.482,--XS45 LELB  
SP,PN4102,N 1078976.606,E 564001.841,EL235.131,--XS45 LAWA  
SK,OP58,FP4102,AR134.06062,ZE89.31490,SD297.354,--XS45 LAWA

LS,HI4.7900,HR9.4300  
SP,PN4103,N 1078941.746,E 563982.116,EL235.834,--SECT45  
CF,EL235.834,GD0.000  
DE,PN202,N 1078923.300,E 563972.000,EL0.000,--SECT45  
SD,ND-18.446,ED-10.116,LD-235.834  
SK,OP58,FP4103,AR129.52470,ZE88.44173,SD330.164,--SECT45  
OF,AR132.02378,ZE88.56384,SD388.410  
OF,OL-27.000,--Right Angle Offset  
OF,HD0.040,--Horizontal Distance Offset  
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LS,HI4.7900,HR8.7300  
OF,AR132.25095,ZE88.14564,SD403.436  
OF,OL-30.000,--Right Angle Offset  
OF,HD0.040,--Horizontal Distance Offset  
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OF,OL-39.000,--Right Angle Offset  
OF,HD0.040,--Horizontal Distance Offset  
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LS,HI4.7900,HR5.3000  
SP,PN4107,N 1078844.881,E 564248.353,EL233.625,--XS44 LELB LAWA  
SK,OP58,FP4107,AR73.25053,ZE89.47114,SD250.082,--XS44 LELB LAWA  
SP,PN4108,N 1078838.907,E 564248.497,EL231.536,--XS44 DD  
SK,OP58,FP4108,AR73.14332,ZE90.15316,SD256.009,--XS44 DD  
SP,PN4109,N 1078833.463,E 564245.927,EL233.538,--XS44 LELB  
SK,OP58,FP4109,AR73.40401,ZE89.48535,SD261.699,--XS44 LELB  
LS,HI4.7900,HR5.8000  
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SK,OP58,FP4110,AR80.24530,ZE89.41205,SD362.945,--XS44

LS,HI4.7900,HR16.4000

SP,PN4111,N 1078716.688,E 564176.830,EL234.525,--XS44 LELB

SK,OP58,FP4111,AR81.53052,ZE88.05546,SD389.688,--XS44 LELB

LS,HI4.7900,HR21.5700

SP,PN4112,N 1078714.291,E 564175.963,EL230.060,--XS44 LELB

SK,OP58,FP4112,AR81.55085,ZE88.00281,SD392.249,--XS44 LELB

SP,PN4113,N 1078666.265,E 564145.776,EL237.692,--XS44 LELB

SK,OP58,FP4113,AR84.06247,ZE87.16222,SD446.954,--XS44 LELB

LS,HI4.7900,HR5.3000

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SP,PN4115,N 1079045.230,E 564352.914,EL232.541,--XS44

SK,OP58,FP4115,AR9.05462,ZE90.05397,SD91.475,--XS44

SP,PN4116,N 1079128.652,E 564396.865,EL233.763,--XS44 LELB

SK,OP58,FP4116,AR321.07462,ZE89.30549,SD126.646,--XS44 LELB

SP,PN4117,N 1079131.379,E 564402.187,EL237.466,--XS44 RDU

SK,OP58,FP4117,AR320.38088,ZE87.56124,SD132.604,--XS44 RDU

SP,PN4118,N 1079146.885,E 564410.291,EL237.509,--XS44 RDU LELB

SK,OP58,FP4118,AR315.40565,ZE88.06026,SD145.341,--XS44 RDU LELB

SP,PN4119,N 1079161.499,E 564418.776,EL247.820,--XS44 LELB

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SP,PN4120,N 1079197.713,E 564433.353,EL259.251,--XS44

SK,OP58,FP4120,AR303.51488,ZE82.01057,SD191.265,--XS44

LS,HI4.7900,HR4.5300

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LS,HI4.7900,HR5.3000

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SK,OP58,FP4122,AR351.34466,ZE90.03020,SD645.759,--XS43

SP,PN4123,N 1078731.239,E 564787.285,EL232.345,--XS43  
SK,OP58,FP4123,AR12.31399,ZE90.01567,SD627.311,--XS43  
SP,PN4124,N 1078600.599,E 564707.183,EL230.313,--XS43 LELB  
SK,OP58,FP4124,AR26.01123,ZE90.12312,SD655.461,--XS43 LELB  
SP,PN4125,N 1078582.736,E 564698.479,EL232.024,--XS43 LELB LAWA  
SK,OP58,FP4125,AR27.36094,ZE90.03304,SD663.408,--XS43 LELB LAWA  
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BK,OP58,BP56,BS112.44515,BC0.00000  
SS,OP58,FP56,AR0.00000,ZE90.08070,SD1412.629,--GPS  
BK,OP58,BP56,BS112.44515,BC0.00000  
SS,OP58,FP56,AR0.00000,ZE90.08061,SD1412.628,--GPS  
LS,HI4.7900,HR4.8800  
SS,OP58,FP66,AR72.51486,ZE89.46519,SD246.264,--CB  
SS,OP58,FP66,AR72.51453,ZE89.46507,SD246.264,--CB  
SS,OP58,FP66,AR72.51479,ZE89.46475,SD246.264,--CB  
LS,HI4.7900,HR4.5300  
SS,OP58,FP56,AR180.00081,ZE269.51595,SD1412.629,--GPS  
SS,OP58,FP56,AR180.00102,ZE269.51586,SD1412.629,--GPS  
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LS,HI4.7900,HR4.8800  
SS,OP58,FP66,AR252.51516,ZE270.13114,SD246.266,--CB  
SS,OP58,FP66,AR252.51524,ZE270.13114,SD246.266,--CB  
SS,OP58,FP66,AR252.51521,ZE270.13114,SD246.268,--CB  
BK,OP58,BP56,BS112.44518,BC0.00000  
LS,HI4.7900,HR4.5300  
SS,OP58,FP56,AR0.00000,ZE90.07562,SD1412.628,--GPS  
BK,OP58,BP56,BS112.44518,BC0.00000  
SS,OP58,FP56,AR0.00000,ZE90.08034,SD1412.631,--GPS

BK,OP58,BP56,BS112.44518,BC0.00000

SS,OP58,FP56,AR0.00000,ZE90.08019,SD1412.628,--GPS

LS,HI4.7900,HR4.8800

SS,OP58,FP66,AR72.51447,ZE89.46509,SD246.265,--CB

SS,OP58,FP66,AR72.51459,ZE89.46498,SD246.266,--CB

SS,OP58,FP66,AR72.51464,ZE89.46482,SD246.265,--CB

LS,HI4.7900,HR4.5300

SS,OP58,FP56,AR180.00076,ZE269.52078,SD1412.628,--GPS

SS,OP58,FP56,AR180.00099,ZE269.52024,SD1412.626,--GPS

SS,OP58,FP56,AR180.00105,ZE269.52030,SD1412.627,--GPS

LS,HI4.7900,HR4.8800

SS,OP58,FP66,AR252.51502,ZE270.13122,SD246.264,--CB

SS,OP58,FP66,AR252.51506,ZE270.13115,SD246.266,--CB

SS,OP58,FP66,AR252.51509,ZE270.13150,SD246.266,--CB

LS,HI4.7900,HR4.5300

LS,HI4.7900,HR4.8800

--Round: 1, PN: 56, dHz: -0°00'01", dVt: 0°00'07", dSD: 0.002

--Round: 1, PN: 56, dHz: -0°00'01", dVt: 0°00'06", dSD: 0.001

--Round: 1, PN: 56, dHz: -0°00'01", dVt: 0°00'05", dSD: -0.001

--Round: 1, PN: 66, dHz: 0°00'04", dVt: 0°00'03", dSD: -0.001

--Round: 1, PN: 66, dHz: 0°00'00", dVt: 0°00'02", dSD: -0.001

--Round: 1, PN: 66, dHz: 0°00'03", dVt: -0°00'01", dSD: -0.001

--Round: 1, PN: 56, dHz: -0°00'01", dVt: -0°00'01", dSD: 0.000

--Round: 1, PN: 56, dHz: 0°00'01", dVt: 0°00'00", dSD: 0.000

--Round: 1, PN: 56, dHz: 0°00'00", dVt: 0°00'00", dSD: 0.001

--Round: 1, PN: 66, dHz: -0°00'01", dVt: -0°00'00", dSD: 0.000

--Round: 1, PN: 66, dHz: -0°00'01", dVt: -0°00'00", dSD: 0.001

--Round: 1, PN: 66, dHz: -0°00'01", dVt: -0°00'00", dSD: 0.002

--Round: 2, PN: 56, dHz: -0°00'01", dVt: -0°00'05", dSD: -0.001

--Round: 2, PN: 56, dHz: -0°00'01", dVt: 0°00'02", dSD: 0.003

--Round: 2, PN: 56, dHz: -0°00'01", dVt: 0°00'01", dSD: 0.000

--Round: 2, PN: 66, dHz: -0°00'00", dVt: 0°00'02", dSD: -0.001

--Round: 2, PN: 66, dHz: 0°00'01", dVt: 0°00'01", dSD: 0.001  
--Round: 2, PN: 66, dHz: 0°00'01", dVt: -0°00'01", dSD: 0.000  
--Round: 2, PN: 56, dHz: -0°00'01", dVt: -0°00'09", dSD: -0.001  
--Round: 2, PN: 56, dHz: 0°00'02", dVt: -0°00'03", dSD: -0.002  
--Round: 2, PN: 56, dHz: 0°00'02", dVt: -0°00'04", dSD: -0.001  
--Round: 2, PN: 66, dHz: -0°00'02", dVt: -0°00'01", dSD: -0.001  
--Round: 2, PN: 66, dHz: -0°00'02", dVt: -0°00'00", dSD: 0.000  
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LS,HI5.2900,HR12.0000  
SP,PN4127,N 1078601.317,E 564107.895,EL234.404,--XS44  
SK,OP66,FP4127,AR204.29179,ZE88.35067,SD285.745,--XS44  
LS,HI5.2900,HR11.2000  
SP,PN4128,N 1078573.672,E 564092.842,EL235.772,--XS44 LELB  
SK,OP66,FP4128,AR204.20103,ZE88.37228,SD317.220,--XS44 LELB  
LS,HI5.2900,HR16.0000  
SP,PN4129,N 1078515.823,E 564062.085,EL233.724,--XS44 LELB  
SK,OP66,FP4129,AR204.00094,ZE88.26489,SD382.762,--XS44 LELB  
LS,HI5.2900,HR4.4800  
SS,OP66,FP4130,AR0.00047,ZE90.21497,SD246.263,--GPS58  
OC,OP56,N 1078547.2578,E 565577.9090,EL230.2954,--GPS  
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LS,HI5.0100,HR4.8700  
SS,OP56,FP57,AR0.00000,ZE89.45160,SD681.172,--GPS  
LS,HI5.0100,HR5.3000  
SP,PN4131,N 1079039.126,E 564967.035,EL232.685,--XS43 LELB  
SK,OP56,FP4131,AR191.15164,ZE89.48187,SD784.367,--XS43 LELB  
SP,PN4132,N 1079096.962,E 564996.122,EL230.484,--XS43 LELB



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SP,PN4133,N 1079136.008,E 565018.287,EL235.051,--XS43 RDU LELB  
SK,OP56,FP4133,AR198.52010,ZE89.38423,SD812.380,--XS43 RDU LELB  
SP,PN4134,N 1079147.706,E 565030.512,EL234.449,--XS43 LELB RDU  
SK,OP56,FP4134,AR200.03367,ZE89.41154,SD812.609,--XS43 LELB RDU  
SP,PN4135,N 1079240.995,E 565085.929,EL255.932,--SECT43  
SK,OP56,FP4135,AR207.04145,ZE88.15183,SD850.960,--SECT43  
SP,PN4136,N 1078581.122,E 564685.355,EL230.160,--XS43 LELB  
SK,OP56,FP4136,AR154.35124,ZE89.59281,SD893.286,--XS43 LELB  
LS,HI5.0100,HR13.5500  
SP,PN4137,N 1078530.347,E 564658.348,EL230.792,--XS43  
SK,OP56,FP4137,AR151.21374,ZE89.26175,SD919.853,--XS43  
SP,PN4138,N 1078464.622,E 564632.558,EL229.726,--XS43  
SK,OP56,FP4138,AR147.25058,ZE89.31117,SD949.084,--XS43  
LS,HI5.0100,HR5.3000  
SP,PN4139,N 1078271.943,E 564970.009,EL229.968,--XS42 LAWA  
SK,OP56,FP4139,AR128.02545,ZE90.00143,SD667.405,--XS42 LAWA  
LS,HI5.0100,HR13.5500  
SP,PN4140,N 1078218.173,E 564952.780,EL229.290,--XS42 LELB  
SK,OP56,FP4140,AR124.39014,ZE89.23234,SD706.569,--XS42 LELB  
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SP,PN4141,N 1078212.324,E 564944.474,EL225.265,--XS42 LAWE  
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SP,PN4142,N 1078207.667,E 564943.304,EL222.830,--XS42 RB  
SK,OP56,FP4142,AR124.15424,ZE89.35433,SD719.844,--XS42 RB  
SP,PN4143,N 1078188.893,E 564940.822,EL224.655,--XS42 RB  
SK,OP56,FP4143,AR123.03215,ZE89.27308,SD731.067,--XS42 RB  
LS,HI5.0100,HR16.0000  
SP,PN4144,N 1078178.558,E 564939.453,EL225.341,--XS42 LAWE  
SK,OP56,FP4144,AR122.24291,ZE89.31548,SD737.367,--XS42 LAWE  
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SK,OP56,FP4145,AR121.50363,ZE88.57358,SD743.192,--XS42  
SP,PN4146,N 1078167.691,E 564937.547,EL225.358,--XS42 LAWE  
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SP,PN4150,N 1078683.865,E 565014.495,EL231.899,--XS42  
SK,OP56,FP4150,AR166.02350,ZE89.48486,SD579.800,--XS42  
SP,PN4151,N 1078814.967,E 565029.120,EL232.960,--XS42  
SK,OP56,FP4151,AR178.25045,ZE89.43247,SD610.672,--XS42  
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LS,HI5.0100,HR4.8700  
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LS,HI5.0100,HR5.3000  
SP,PN4152,N 1079003.755,E 565055.955,EL232.735,--XS42  
SK,OP56,FP4152,AR193.35122,ZE89.46311,SD693.491,--XS42  
SP,PN4153,N 1079080.848,E 565065.266,EL230.104,--XS42 LELB  
SK,OP56,FP4153,AR198.33395,ZE89.59356,SD740.021,--XS42 LELB  
SP,PN4154,N 1079093.897,E 565068.709,EL232.818,--XS42 LELB  
SK,OP56,FP4154,AR199.26413,ZE89.47068,SD747.140,--XS42 LELB  
SP,PN4155,N 1079111.754,E 565069.556,EL233.223,--XS42  
SK,OP56,FP4155,AR200.24344,ZE89.45297,SD759.740,--XS42  
SP,PN4156,N 1079127.284,E 565067.033,EL234.206,--XS42 RDU  
SK,OP56,FP4156,AR201.02276,ZE89.41224,SD773.021,--XS42 RDU  
SP,PN4157,N 1079147.224,E 565065.928,EL234.342,--XS42 RDU LELB  
SK,OP56,FP4157,AR201.56175,ZE89.41094,SD788.814,--XS42 RDU LELB  
SS,OP56,FP4158,AR217.42508,ZE86.01010,SD692.736,--XS42 LELB

SP,PN4159,N 1079084.795,E 565254.580,EL232.950,--XS42 RDU LELB  
SK,OP56,FP4159,AR211.23134,ZE89.43545,SD627.356,--XS42 RDU LELB  
SP,PN4160,N 1079072.010,E 565250.421,EL232.794,--XS42 RDU  
SK,OP56,FP4160,AR210.26472,ZE89.44327,SD618.625,--XS42 RDU  
SP,PN4161,N 1079006.607,E 565232.208,EL230.209,--XS42 LELB  
SK,OP56,FP4161,AR205.26574,ZE89.58495,SD574.958,--XS42 LELB  
SP,PN4162,N 1078996.198,E 565226.229,EL230.958,--XS42 LELB  
SK,OP56,FP4162,AR204.20253,ZE89.54181,SD570.344,--XS42 LELB  
SP,PN4163,N 1078919.414,E 565198.730,EL232.387,--XS42 LELB  
SK,OP56,FP4163,AR196.52422,ZE89.44376,SD531.356,--XS42 LELB  
SP,PN4164,N 1078748.559,E 565133.217,EL232.395,--XS42  
SK,OP56,FP4164,AR176.46085,ZE89.43126,SD488.187,--XS42  
SP,PN4165,N 1078537.765,E 565065.899,EL232.644,--XS42  
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LS,HI5.0100,HR9.4300  
SP,PN4169,N 1078068.941,E 565383.197,EL224.425,--XS39 LELB  
SK,OP56,FP4169,AR84.33508,ZE90.09414,SD516.483,--XS39 LELB  
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SK,OP56,FP4170,AR84.38510,ZE90.05403,SD544.389,--XS39  
SP,PN4171,N 1078010.348,E 565361.532,EL223.650,--XS39 LAWE  
SK,OP56,FP4171,AR84.21489,ZE90.13153,SD578.933,--XS39 LAWE  
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SP,PN4173,N 1077969.919,E 565343.106,EL220.947,--XS39 RB  
SK,OP56,FP4173,AR84.32439,ZE89.42197,SD623.330,--XS39 RB

LS,HI5.0100,HR13.5500

SP,PN4174,N 1077955.002,E 565330.852,EL223.394,--XS39 LAWE

SK,OP56,FP4174,AR85.03259,ZE89.51160,SD641.786,--XS39 LAWE

SP,PN4175,N 1077951.920,E 565328.385,EL225.198,--XS39 LELB

SK,OP56,FP4175,AR85.09144,ZE89.41430,SD645.588,--XS39 LELB

LS,HI5.0100,HR5.3000

SP,PN4176,N 1077932.733,E 565318.601,EL230.283,--XS39 LELB

SK,OP56,FP4176,AR85.17312,ZE89.58370,SD667.061,--XS39 LELB

SP,PN4177,N 1077897.990,E 565304.552,EL227.489,--XS39 LELB

SK,OP56,FP4177,AR85.14462,ZE90.12197,SD704.541,--XS39 LELB

SP,PN4178,N 1077847.783,E 565283.439,EL228.166,--XS39

SK,OP56,FP4178,AR85.14399,ZE90.08231,SD759.010,--XS39

LS,HI5.0100,HR17.5700

SP,PN4179,N 1077886.229,E 565399.940,EL227.442,--XS35 LELB

SK,OP56,FP4179,AR77.28566,ZE89.11188,SD684.704,--XS35 LELB

LS,HI5.0100,HR5.3000

SP,PN4180,N 1077828.254,E 565400.894,EL228.085,--XS35

SK,OP56,FP4180,AR76.14412,ZE90.08581,SD740.550,--XS35

SP,PN4181,N 1077900.649,E 565415.207,EL230.359,--XS35 LELB

SK,OP56,FP4181,AR76.32160,ZE89.58133,SD666.831,--XS35 LELB

LS,HI5.0100,HR9.4300

SP,PN4182,N 1077906.186,E 565414.861,EL222.816,--XS35 LAWE

SK,OP56,FP4182,AR76.41019,ZE90.15568,SD661.555,--XS35 LAWE

SP,PN4183,N 1077919.156,E 565415.257,EL222.550,--XS35 RB

SK,OP56,FP4183,AR76.55560,ZE90.17397,SD648.893,--XS35 RB

SP,PN4184,N 1077936.988,E 565419.817,EL222.491,--XS35 RB

SK,OP56,FP4184,AR76.56144,ZE90.18300,SD630.487,--XS35 RB

LS,HI5.0100,HR13.5500

SP,PN4185,N 1077956.929,E 565426.270,EL221.196,--XS35 RB

SK,OP56,FP4185,AR76.49125,ZE90.03120,SD609.555,--XS35 RB

SP,PN4186,N 1077967.583,E 565429.641,EL223.179,--XS35 LAWE

SK,OP56,FP4186,AR76.45409,ZE89.51519,SD598.397,--XS35 LAWE  
SP,PN4187,N 1077971.328,E 565430.745,EL224.184,--XS35 LELB  
SK,OP56,FP4187,AR76.44517,ZE89.45599,SD594.499,--XS35 LELB  
SP,PN4188,N 1078028.251,E 565444.836,EL225.591,--XS35 LELB  
SK,OP56,FP4188,AR76.47413,ZE89.35258,SD535.863,--XS35 LELB  
LS,HI5.0100,HR5.3000  
SP,PN4189,N 1078186.525,E 565504.572,EL227.877,--XS35  
SK,OP56,FP4189,AR73.54200,ZE90.19541,SD368.154,--XS35  
SP,PN4190,N 1078378.843,E 565577.793,EL229.663,--XS35  
SK,OP56,FP4190,AR62.27120,ZE90.07004,SD168.432,--XS35  
SP,PN4191,N 1078545.550,E 565634.485,EL229.390,--XS35  
SK,OP56,FP4191,AR334.08344,ZE90.37229,SD56.611,--XS35  
SP,PN4192,N 1078662.065,E 565672.652,EL230.398,--XS35  
SK,OP56,FP4192,AR281.56407,ZE89.50563,SD148.868,--XS35  
SP,PN4193,N 1078759.632,E 565711.805,EL228.877,--XS35 LELB  
SK,OP56,FP4193,AR274.38393,ZE90.15278,SD251.088,--XS35 LELB  
SP,PN4194,N 1078777.414,E 565726.291,EL230.854,--XS35 RDU LELB  
SK,OP56,FP4194,AR275.13258,ZE89.49222,SD273.870,--XS35 RDU LELB  
SP,PN4195,N 1078792.645,E 565729.252,EL231.519,--XS35 RDU LELB  
SK,OP56,FP4195,AR274.04417,ZE89.41588,SD288.337,--XS35 RDU LELB  
SP,PN4196,N 1078824.283,E 565743.842,EL241.355,--XS35  
SK,OP56,FP4196,AR273.20052,ZE87.59158,SD323.150,--XS35  
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SK,OP56,FP4197,AR259.51595,ZE89.34551,SD290.072,--XS39 RDU LELB  
SP,PN4198,N 1078876.144,E 565690.907,EL238.797,--XS39  
SK,OP56,FP4198,AR261.22320,ZE88.33088,SD347.902,--XS39  
SP,PN4199,N 1078807.571,E 565661.009,EL231.791,--XS39 RDU LELB  
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SP,PN4200,N 1078804.804,E 565660.047,EL230.613,--XS39 LELB  
SK,OP56,FP4200,AR260.06102,ZE89.52180,SD270.355,--XS39 LELB  
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SK,OP56,FP4203,AR86.49327,ZE89.56235,SD229.757,--XS39  
SP,PN4204,N 1078194.661,E 565429.715,EL226.492,--XS39 LELB  
SK,OP56,FP4204,AR85.12386,ZE90.31362,SD382.528,--XS39 LELB  
SP,PN4205,N 1077962.906,E 565692.075,EL226.438,--XS32 LELB  
SK,OP56,FP4205,AR51.21331,ZE90.20383,SD595.470,--XS32 LELB  
SP,PN4206,N 1078003.416,E 565704.277,EL224.348,--XS32 LELB  
SK,OP56,FP4206,AR49.19578,ZE90.34521,SD558.414,--XS32 LELB  
SP,PN4207,N 1078026.165,E 565712.473,EL226.560,--XS32 LELB  
SK,OP56,FP4207,AR47.56044,ZE90.22025,SD538.252,--XS32 LELB  
SP,PN4208,N 1078226.745,E 565781.190,EL228.885,--XS32  
SK,OP56,FP4208,AR30.01465,ZE90.10102,SD379.581,--XS32  
SP,PN4209,N 1078415.689,E 565847.697,EL228.932,--XS32  
SK,OP56,FP4209,AR358.24406,ZE90.12188,SD300.192,--XS32  
SP,PN4210,N 1078482.337,E 565875.374,EL229.300,--XS32  
SK,OP56,FP4210,AR344.43321,ZE90.07591,SD304.498,--XS32  
SP,PN4211,N 1078535.718,E 565895.856,EL229.120,--XS32 LELB  
SK,OP56,FP4211,AR334.29334,ZE90.09350,SD318.189,--XS32 LELB  
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SK,OP56,FP4212,AR331.45271,ZE89.24407,SD327.792,--XS32 LELB RDU  
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SK,OP56,FP4213,AR328.59287,ZE89.27252,SD335.000,--XS32 LELB RDU  
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SK,OP56,FP4214,AR325.47416,ZE88.23108,SD340.081,--XS32 LELB  
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LS,HI5.1200,HR5.3000  
SP,PN4217,N 1077933.790,E 565679.835,EL226.687,--XS32 LELB  
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LS,HI5.1200,HR13.5500  
SP,PN4218,N 1077929.263,E 565677.016,EL222.435,--XS32 LAWE  
SK,OP97,FP4218,AR320.07247,ZE89.53524,SD780.237,--XS32 LAWE  
SP,PN4219,N 1077919.774,E 565669.726,EL220.481,--XS32 RB  
SK,OP97,FP4219,AR319.34004,ZE90.02273,SD789.457,--XS32 RB  
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SK,OP97,FP4220,AR319.03125,ZE89.54114,SD794.815,--XS32 LAWE  
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SK,OP97,FP4221,AR318.51160,ZE89.51292,SD796.121,--XS32  
SP,PN4222,N 1077907.107,E 565665.035,EL222.439,--XS32 LAWE  
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SK,OP97,FP4223,AR317.49384,ZE90.08262,SD803.808,--XS32 RB  
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SK,OP97,FP4224,AR316.36383,ZE90.00589,SD815.343,--XS32 RB  
SP,PN4225,N 1077857.080,E 565646.953,EL219.502,--XS32 RB  
SK,OP97,FP4225,AR315.41480,ZE90.06247,SD827.794,--XS32 RB

SP,PN4226,N 1077846.514,E 565646.517,EL222.344,--  
SK,OP97,FP4226,AR315.00329,ZE89.54381,SD831.365,--  
LS,HI5.1200,HR12.5500  
SP,PN4227,N 1077845.868,E 565647.171,EL222.432,--XS32 LAWE  
SK,OP97,FP4227,AR314.57108,ZE89.58242,SD830.938,--XS32 LAWE  
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LS,HI5.1200,HR9.4300  
SP,PN4229,N 1077828.350,E 565633.441,EL228.590,--XS32 LELB  
SK,OP97,FP4229,AR314.06370,ZE89.46087,SD849.460,--XS32 LELB  
LS,HI5.1200,HR5.3000  
SP,PN4230,N 1077711.612,E 565861.984,EL226.322,--XS31 LELB  
SK,OP97,FP4230,AR298.47188,ZE90.14417,SD694.802,--XS31 LELB  
OF,AR298.26435,ZE90.16449,SD734.852  
OF,OL-30.000,--Right Angle Offset  
OF,HD0.040,--Horizontal Distance Offset  
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SP,PN4232,N 1077718.461,E 565862.534,EL221.262,--XS31 LAWE  
SK,OP97,FP4232,AR299.14047,ZE90.39585,SD690.583,--XS31 LAWE  
LS,HI5.1200,HR9.4300  
SP,PN4233,N 1077722.315,E 565863.206,EL218.654,--XS31 RB  
SK,OP97,FP4233,AR299.28175,ZE90.32314,SD687.886,--XS31 RB  
SP,PN4234,N 1077733.331,E 565866.119,EL218.877,--XS31 RB  
SK,OP97,FP4234,AR300.06497,ZE90.31480,SD679.450,--XS31 RB  
SP,PN4235,N 1077741.764,E 565866.422,EL220.216,--XS31 RB  
SK,OP97,FP4235,AR300.42117,ZE90.25120,SD674.674,--XS31 RB  
SP,PN4236,N 1077747.500,E 565865.612,EL221.383,--XS31 LAWE  
SK,OP97,FP4236,AR301.09158,ZE90.19192,SD672.334,--XS31 LAWE



LS,HI5.1200,HR15.6500  
SP,PN4237,N 1077765.851,E 565866.231,EL222.222,--XS31  
SK,OP97,FP4237,AR302.28449,ZE89.42581,SD662.372,--XS31  
LS,HI5.1200,HR17.5700  
SP,PN4238,N 1077793.176,E 565865.662,EL221.729,--XS31 LAWE  
SK,OP97,FP4238,AR304.35145,ZE89.35048,SD649.549,--XS31 LAWE  
SP,PN4239,N 1077798.455,E 565865.929,EL220.779,--XS31 RB  
SK,OP97,FP4239,AR304.59190,ZE89.40015,SD646.834,--XS31 RB  
SP,PN4240,N 1077808.584,E 565867.972,EL220.792,--XS31 RB  
SK,OP97,FP4240,AR305.42211,ZE89.39452,SD640.361,--XS31 RB  
LS,HI5.1200,HR21.5700  
SP,PN4241,N 1077824.399,E 565868.338,EL221.316,--XS31 LAWE  
SK,OP97,FP4241,AR306.57587,ZE89.14569,SD633.048,--XS31 LAWE  
LS,HI5.1200,HR17.5700  
SP,PN4242,N 1077832.030,E 565873.958,EL224.549,--XS31 LELB  
SK,OP97,FP4242,AR307.22222,ZE89.18338,SD624.676,--XS31 LELB  
LS,HI5.1200,HR9.4300  
SP,PN4243,N 1077877.059,E 565886.002,EL224.895,--XS31 LELB  
SK,OP97,FP4243,AR310.47391,ZE90.01314,SD595.526,--XS31 LELB  
SP,PN4244,N 1077901.097,E 565886.727,EL226.017,--XS31 LELB  
SK,OP97,FP4244,AR312.56516,ZE89.54580,SD586.290,--XS31 LELB  
SP,PN4245,N 1077923.624,E 565870.429,EL224.837,--SECT31 LELB  
SK,OP97,FP4245,AR315.31220,ZE90.01517,SD594.606,--SECT31 LELB  
LS,HI5.1200,HR5.3000  
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SP,PN4247,N 1078182.897,E 565957.312,EL227.923,--XS31  
SK,OP97,FP4247,AR342.33540,ZE90.09359,SD488.315,--XS31  
LS,HI5.1200,HR9.4300  
SP,PN4248,N 1078256.311,E 565979.287,EL228.089,--XS31  
SK,OP97,FP4248,AR351.35169,ZE89.39134,SD485.224,--XS31  
LS,HI5.1200,HR17.5700

SP,PN4249,N 1078362.863,E 566017.528,EL226.979,--XS31 LELB  
SK,OP97,FP4249,AR4.45582,ZE88.51026,SD496.658,--XS31 LELB  
SP,PN4250,N 1078388.111,E 566029.429,EL229.658,--XS31 LELB  
SK,OP97,FP4250,AR7.56240,ZE88.33131,SD500.794,--XS31 LELB  
SP,PN4251,N 1078500.040,E 566063.399,EL232.222,--XS31 LAWA  
SK,OP97,FP4251,AR19.36503,ZE88.24468,SD548.997,--XS31 LAWA  
LS,HI5.1200,HR13.5500  
SP,PN4252,N 1078538.384,E 566069.207,EL235.176,--XS31 LELB  
SK,OP97,FP4252,AR22.39237,ZE88.35174,SD573.796,--XS31 LELB  
SP,PN4253,N 1078545.573,E 566071.035,EL239.137,--XS31 LELB  
SK,OP97,FP4253,AR23.15148,ZE88.12233,SD578.263,--XS31 LELB  
SP,PN4254,N 1078552.596,E 566077.983,EL240.020,--XS31 RDU  
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SP,PN4255,N 1078569.985,E 566087.281,EL240.340,--XS31 LELB RDU  
SK,OP97,FP4255,AR25.59360,ZE88.07022,SD587.487,--XS31 LELB RDU  
SP,PN4256,N 1078579.741,E 566089.840,EL244.563,--SECT31  
SK,OP97,FP4256,AR26.45170,ZE87.43490,SD593.978,--SECT31  
LS,HI5.1200,HR5.3000  
SP,PN4257,N 1078458.271,E 566234.701,EL243.345,--SECT30  
CF,EL243.345,GD0.000  
DE,PN153,N 1078456.900,E 566235.700,EL0.000,--SECT30  
SD,ND-1.371,ED0.999,LD-243.345  
SK,OP97,FP4257,AR33.08299,ZE88.02551,SD412.902,--SECT30  
SP,PN4258,N 1078245.220,E 566150.973,EL233.389,--XS30 LELB  
SK,OP97,FP4258,AR359.37059,ZE89.16131,SD322.336,--XS30 LELB  
SP,PN4259,N 1078202.512,E 566140.335,EL230.374,--XS30 LELB  
SK,OP97,FP4259,AR351.48005,ZE89.48069,SD315.410,--XS30 LELB  
SP,PN4260,N 1078154.105,E 566127.973,EL226.262,--XS30 LELB  
SK,OP97,FP4260,AR342.42410,ZE90.32574,SD315.240,--XS30 LELB  
SP,PN4261,N 1078092.094,E 566108.322,EL227.618,--XS30  
SK,OP97,FP4261,AR331.26561,ZE90.17211,SD330.186,--XS30

SP,PN4262,N 1077929.773,E 566051.213,EL226.597,--XS30 LELB  
SK,OP97,FP4262,AR309.03341,ZE90.21520,SD422.767,--XS30 LELB  
SP,PN4263,N 1077912.710,E 566044.455,EL223.646,--XS30 LELB LAWA  
SK,OP97,FP4263,AR307.21423,ZE90.44280,SD436.025,--XS30 LELB LAWA  
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SK,OP97,FP4264,AR304.43099,ZE90.36339,SD455.934,--XS30 LELB  
LS,HI5.1200,HR9.4300  
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CF,EL223.788,GD0.000  
DE,PN154,N 1077871.500,E 566026.900,EL0.000,--SECT30  
SD,ND-1.955,ED-1.398,LD-223.788  
SK,OP97,FP4265,AR303.51568,ZE90.10028,SD468.278,--SECT30  
SP,PN4266,N 1077849.370,E 566036.364,EL223.528,--XS30 LELB  
SK,OP97,FP4266,AR300.50256,ZE90.11494,SD473.499,--XS30 LELB  
SP,PN4267,N 1077840.888,E 566037.809,EL220.337,--XS30 LAWE  
SK,OP97,FP4267,AR299.52593,ZE90.34449,SD476.841,--XS30 LAWE  
SP,PN4268,N 1077832.450,E 566038.111,EL219.979,--XS30 RB  
SK,OP97,FP4268,AR299.01097,ZE90.36593,SD481.221,--XS30 RB  
LS,HI5.1200,HR25.5000  
SP,PN4269,N 1077813.184,E 566040.266,EL219.139,--XS30 RB  
SK,OP97,FP4269,AR297.00228,ZE88.49327,SD490.497,--XS30 RB  
LS,HI5.1200,HR21.5700  
SP,PN4270,N 1077803.254,E 566040.826,EL218.243,--XS30 RB  
SK,OP97,FP4270,AR296.02126,ZE89.23459,SD495.836,--XS30 RB  
LS,HI5.1200,HR25.5000  
SP,PN4271,N 1077789.006,E 566043.407,EL220.130,--XS30 LAWE  
SK,OP97,FP4271,AR294.33276,ZE88.44273,SD502.539,--XS30 LAWE  
LS,HI5.1200,HR21.5700  
SP,PN4272,N 1077788.187,E 566042.252,EL220.816,--XS30 LELB  
SK,OP97,FP4272,AR294.33560,ZE89.06473,SD503.893,--XS30 LELB  
SP,PN4273,N 1077778.793,E 566045.951,EL221.272,--XS30 LELB  
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LS,HI5.1200,HR13.5500

SP,PN4274,N 1077769.241,E 566049.526,EL224.230,--XS30 LELB  
SK,OP97,FP4274,AR292.23133,ZE89.38290,SD510.197,--XS30 LELB

LS,HI5.1200,HR17.5700

SP,PN4275,N 1077758.700,E 566051.559,EL223.687,--XS30 LELB  
SK,OP97,FP4275,AR291.20516,ZE89.15318,SD515.589,--XS30 LELB

LS,HI5.1200,HR5.3000

SP,PN4276,N 1077741.055,E 566055.851,EL230.037,--XS30 PE  
SK,OP97,FP4276,AR289.35240,ZE89.55051,SD524.236,--XS30 PE

SP,PN4277,N 1077718.140,E 566059.073,EL230.789,--XS30 PRC  
SK,OP97,FP4277,AR287.34243,ZE89.50243,SD537.887,--XS30 PRC

SP,PN4278,N 1077693.803,E 566062.431,EL230.253,--XS30 PE  
SK,OP97,FP4278,AR285.32536,ZE89.54004,SD553.118,--XS30 PE

SP,PN4279,N 1077546.972,E 565931.524,EL230.170,--XS31 PE  
SK,OP97,FP4279,AR285.15275,ZE89.55590,SD749.823,--XS31 PE

SP,PN4280,N 1077559.537,E 565916.923,EL230.743,--XS31 PRC  
SK,OP97,FP4280,AR286.43390,ZE89.53218,SD750.683,--XS31 PRC

SP,PN4281,N 1077572.256,E 565903.166,EL229.973,--XS31 PE  
SK,OP97,FP4281,AR288.09223,ZE89.56533,SD751.325,--XS31 PE

LS,HI5.1200,HR9.4300

SP,PN4282,N 1077580.778,E 565901.181,EL228.638,--XS31 LELB LAWA  
SK,OP97,FP4282,AR288.43441,ZE89.44004,SD746.803,--XS31 LELB LAWA

SS,OP97,FP4283,AR285.57409,ZE89.40393,SD445.729,--1040750 BVC

SS,OP97,FP4284,AR286.05565,ZE89.39203,SD406.376,--1040750 BVC

SS,OP97,FP4285,AR290.40331,ZE89.38366,SD419.425,--1040750 BVC

SS,OP97,FP4286,AR290.03159,ZE89.39016,SD458.271,--1040750 BVC

LS,HI5.1200,HR5.3000

SS,OP97,FP4287,AR290.03484,ZE89.50337,SD460.386,--BWW

SS,OP97,FP4288,AR290.04387,ZE89.50430,SD458.969,--BWW

LS,HI5.1200,HR25.5000

SS,OP97,FP4289,AR290.10344,ZE88.37275,SD457.406,--LAW

SS,OP97,FP4290,AR290.13275,ZE88.55544,SD454.959,--RB  
SS,OP97,FP4291,AR290.18048,ZE89.05462,SD441.410,--RB  
SS,OP97,FP4292,AR290.37102,ZE89.00368,SD423.366,--RB  
LS,HI5.1200,HR21.3500  
SS,OP97,FP4293,AR290.40451,ZE89.01257,SD420.031,--LAW  
LS,HI5.1200,HR5.3000  
SS,OP97,FP4294,AR290.40212,ZE89.48567,SD419.023,--BWW  
SS,OP97,FP4295,AR290.42112,ZE89.48457,SD417.746,--BWW  
SS,OP97,FP4296,AR290.54008,ZE89.47518,SD409.616,--LELB  
SS,OP97,FP4297,AR286.04293,ZE89.52007,SD397.289,--LELS  
SS,OP97,FP4298,AR286.07072,ZE89.49321,SD404.000,--BWW  
SS,OP97,FP4299,AR286.06585,ZE89.49029,SD405.825,--BWW  
LS,HI5.1200,HR21.3500  
SS,OP97,FP4300,AR286.05283,ZE88.59366,SD406.714,--LAW  
SS,OP97,FP4301,AR286.06306,ZE89.22025,SD408.951,--RB  
SS,OP97,FP4302,AR286.02503,ZE89.26210,SD422.218,--RB  
SS,OP97,FP4303,AR285.57062,ZE89.17406,SD441.882,--RB  
SS,OP97,FP4304,AR285.53596,ZE89.05229,SD445.286,--LAW  
LS,HI5.1200,HR5.3000  
SS,OP97,FP4305,AR285.55337,ZE89.49586,SD446.364,--BWW  
SS,OP97,FP4306,AR285.55128,ZE89.49403,SD447.570,--BWW  
SS,OP97,FP4307,AR285.51391,ZE89.49417,SD454.732,--LELS  
OC,OP97,N 1078099.4296,E 566438.3891,EL229.4619,--CB  
BK,OP97,BP57,BS297.16405,BC0.00000  
LS,HI5.1200,HR4.8500  
SS,OP97,FP57,AR0.00000,ZE89.17306,SD288.985,--GPS  
LS,HI5.1200,HR5.3000  
SP,PN4308,N 1078358.931,E 566471.293,EL241.475,--XS27  
SK,OP97,FP4308,AR69.56547,ZE87.19542,SD261.889,--XS27  
SP,PN4309,N 1078367.351,E 566435.444,EL239.908,--XS28  
SK,OP97,FP4309,AR62.05324,ZE87.43458,SD268.175,--XS28  
SP,PN4310,N 1078376.229,E 566383.198,EL240.583,--XS29

SK,OP97,FP4310,AR51.26448,ZE87.42280,SD282.503,--XS29  
 SP,PN4311,N 1078286.068,E 566362.772,EL236.982,--XS29  
 SK,OP97,FP4311,AR40.39599,ZE87.48388,SD201.542,--XS29  
 SP,PN4312,N 1078284.233,E 566404.818,EL237.373,--XS28  
 SK,OP97,FP4312,AR52.25344,ZE87.32013,SD188.021,--XS28  
 SP,PN4313,N 1078336.457,E 566467.417,EL240.201,--XS27 LELB  
 SK,OP97,FP4313,AR69.42150,ZE87.22567,SD239.071,--XS27 LELB  
 SP,PN4314,N 1078312.561,E 566460.285,EL238.211,--XS27 LELB  
 SK,OP97,FP4314,AR68.35163,ZE87.36504,SD214.461,--XS27 LELB  
 SP,PN4315,N 1078301.843,E 566453.831,EL237.911,--XS27 RDU  
 SK,OP97,FP4315,AR67.05052,ZE87.33591,SD203.206,--XS27 RDU  
 SP,PN4316,N 1078289.229,E 566451.251,EL237.331,--XS27 RDU  
 SK,OP97,FP4316,AR66.35560,ZE87.34391,SD190.424,--XS27 RDU  
 SP,PN4317,N 1078177.398,E 566415.526,EL235.219,--XS27 LELB  
 SK,OP97,FP4317,AR46.22438,ZE85.49174,SD81.477,--XS27 LELB  
 SP,PN4318,N 1078168.286,E 566370.134,EL234.700,--XS28 LELB  
 SK,OP97,FP4318,AR17.58228,ZE86.48059,SD97.114,--XS28 LELB  
 SP,PN4319,N 1078160.408,E 566332.166,EL233.724,--XS29 LELB  
 SK,OP97,FP4319,AR2.34491,ZE87.55241,SD122.574,--XS29 LELB  
 SP,PN4320,N 1078080.576,E 566310.596,EL227.742,--  
 SK,OP97,FP4320,AR324.19472,ZE90.40586,SD129.198,--  
 SP,PN4321,N 1078080.573,E 566310.584,EL227.742,--  
 SK,OP97,FP4321,AR324.19446,ZE90.40583,SD129.211,--  
 SP,PN4322,N 1078080.573,E 566310.584,EL227.742,--  
 SK,OP97,FP4322,AR324.19446,ZE90.40583,SD129.211,--  
 SP,PN4323,N 1078084.274,E 566315.006,EL227.949,--XS29 LELB  
 SK,OP97,FP4323,AR325.43088,ZE90.36519,SD124.330,--XS29 LELB  
 SP,PN4324,N 1078094.779,E 566350.048,EL228.419,--XS28 LELB  
 SK,OP97,FP4324,AR329.42310,ZE90.33312,SD88.476,--XS28 LELB  
 SP,PN4325,N 1078097.241,E 566385.972,EL229.144,--XS27 LELB  
 SK,OP97,FP4325,AR330.19509,ZE90.09007,SD52.469,--XS27 LELB

SP,PN4326,N 1078068.538,E 566381.520,EL228.061,--XS27 LELB  
SK,OP97,FP4326,AR304.12394,ZE91.04502,SD64.736,--XS27 LELB  
SP,PN4327,N 1078064.066,E 566379.948,EL226.587,--XS27 DD  
SK,OP97,FP4327,AR301.32358,ZE92.15327,SD68.368,--XS27 DD  
SP,PN4328,N 1078039.624,E 566340.892,EL225.473,--XS28 DD  
SK,OP97,FP4328,AR301.11474,ZE91.54264,SD114.453,--XS28 DD  
SP,PN4329,N 1078044.994,E 566340.640,EL227.443,--XS28 LELB  
SK,OP97,FP4329,AR303.36327,ZE90.56291,SD111.910,--XS28 LELB  
SP,PN4330,N 1078021.730,E 566296.548,EL225.492,--  
SK,OP97,FP4330,AR304.00305,ZE91.20335,SD161.789,--  
SP,PN4331,N 1078021.721,E 566296.542,EL225.491,--  
SK,OP97,FP4331,AR304.00239,ZE91.20340,SD161.799,--  
SP,PN4332,N 1078021.721,E 566296.542,EL225.491,--  
SK,OP97,FP4332,AR304.00239,ZE91.20340,SD161.799,--  
SP,PN4333,N 1078021.744,E 566296.631,EL225.486,--XS29 LELB  
SK,OP97,FP4333,AR303.59552,ZE91.20425,SD161.710,--XS29 LELB  
SP,PN4334,N 1078013.763,E 566295.577,EL224.258,--XS29 DD  
SK,OP97,FP4334,AR301.45518,ZE91.43412,SD166.627,--XS29 DD  
SP,PN4335,N 1077986.208,E 566290.151,EL230.557,--XS29 LELB  
SK,OP97,FP4335,AR295.20599,ZE89.36308,SD186.554,--XS29 LELB  
SP,PN4336,N 1077979.051,E 566289.491,EL231.439,--XS29 PE  
SK,OP97,FP4336,AR293.46041,ZE89.21171,SD191.504,--XS29 PE  
SP,PN4337,N 1078007.554,E 566328.577,EL231.983,--XS28 PE  
SK,OP97,FP4337,AR292.48144,ZE88.55096,SD143.217,--XS28 PE  
SP,PN4338,N 1078017.509,E 566329.894,EL230.965,--XS28 LELB  
SK,OP97,FP4338,AR295.40018,ZE89.17279,SD135.973,--XS28 LELB  
SP,PN4339,N 1078043.720,E 566369.353,EL231.412,--XS27 LELB  
SK,OP97,FP4339,AR293.49121,ZE88.37292,SD88.745,--XS27 LELB  
SP,PN4340,N 1078035.160,E 566369.874,EL232.197,--XS27 PE  
SK,OP97,FP4340,AR289.33121,ZE88.13235,SD93.996,--XS27 PE  
SS,OP97,FP4341,AR282.00559,ZE88.53449,SD114.611,--XS27 PRC  
SS,OP97,FP4342,AR276.24554,ZE89.39294,SD137.172,--XS27 PE

SS,OP97,FP4343,AR282.03230,ZE89.43234,SD185.259,--XS27 PE  
SS,OP97,FP4344,AR287.02445,ZE89.17387,SD168.339,--XS28 PRC  
SS,OP97,FP4345,AR293.55122,ZE89.27122,SD215.145,--XS29 PE  
SS,OP97,FP4346,AR289.02059,ZE89.31197,SD216.075,--XS28 PRC  
SS,OP97,FP4347,AR284.02159,ZE89.49446,SD217.991,--XS27 PE  
SS,OP97,FP4348,AR285.41439,ZE89.48000,SD273.815,--XS27 PE  
SS,OP97,FP4349,AR289.33512,ZE89.36593,SD272.495,--XS28 PRC  
SS,OP97,FP4350,AR290.06283,ZE89.29203,SD273.713,--XS28 PRC  
SS,OP97,FP4351,AR293.28471,ZE89.36154,SD274.214,--XS29 PE  
SS,OP97,FP4352,AR293.28201,ZE89.36134,SD274.224,--XS29 PE  
SS,OP97,FP4353,AR292.29281,ZE89.42589,SD327.298,--XS29 PE  
SS,OP97,FP4354,AR289.19565,ZE89.40345,SD326.920,--XS28 PRC  
SS,OP97,FP4355,AR285.51182,ZE89.47240,SD326.070,--XS27 PE  
SS,OP97,FP4356,AR286.23377,ZE89.44275,SD405.000,--XS27 PE  
SS,OP97,FP4357,AR288.32116,ZE89.43134,SD403.688,--XS28 PRC  
SS,OP97,FP4358,AR290.35018,ZE89.44235,SD406.090,--XS29 PE  
SS,OP97,FP4359,AR290.07400,ZE89.44308,SD434.576,--XS29 PE  
SS,OP97,FP4360,AR288.21263,ZE89.43531,SD428.332,--XS28 PRC  
SS,OP97,FP4361,AR288.21263,ZE89.43531,SD429.370,--XS28 PRC  
SS,OP97,FP4362,AR286.15460,ZE89.44084,SD424.558,--XS27 PE  
SS,OP97,FP4363,AR286.10109,ZE89.45511,SD448.597,--XS27 PE  
SS,OP97,FP4364,AR288.04106,ZE89.44452,SD457.469,--XS28 PRC  
SS,OP97,FP4365,AR289.47423,ZE89.46294,SD460.088,--XS29 PE  
SS,OP97,FP4366,AR289.41000,ZE89.52477,SD498.605,--XS29 PE  
SS,OP97,FP4367,AR287.48444,ZE89.47506,SD497.123,--XS28 PRC  
SS,OP97,FP4368,AR285.44439,ZE89.50100,SD496.105,--XS27 PE  
SS,OP97,FP4369,AR285.56164,ZE89.49481,SD447.905,--BWW1  
SS,OP97,FP4370,AR285.51028,ZE89.49528,SD447.562,--BWW1  
SS,OP97,FP4371,AR285.37025,ZE90.00122,SD446.702,--BWW1  
LS,HI5.1200,HR13.5500  
SS,OP97,FP4372,AR284.02168,ZE89.49121,SD449.166,--BWW1



SS,OP97,FP4373,AR283.59061,ZE89.49414,SD448.187,--BWW1  
SS,OP97,FP4374,AR284.07121,ZE90.05420,SD447.582,--LAW  
SS,OP97,FP4375,AR284.09008,ZE90.05389,SD447.651,--LAW  
LS,HI5.1200,HR5.3000  
SS,OP97,FP4376,AR285.38090,ZE89.58527,SD445.444,--BWW1  
SS,OP97,FP4377,AR285.47099,ZE89.54036,SD445.707,--BWW1  
SS,OP97,FP4378,AR285.53147,ZE89.50115,SD446.333,--BWW1  
SS,OP97,FP4379,AR285.56235,ZE89.49558,SD446.559,--BWW1 CL  
SS,OP97,FP4380,AR286.08125,ZE89.49037,SD405.671,--BWW2 ST  
SS,OP97,FP4381,AR286.05067,ZE89.49036,SD405.588,--BWW2  
LS,HI5.1200,HR13.5500  
SS,OP97,FP4382,AR284.08595,ZE89.53137,SD392.519,--BWW2  
SS,OP97,FP4383,AR284.28289,ZE89.47542,SD392.237,--BWW2  
SS,OP97,FP4384,AR284.30470,ZE90.05519,SD394.882,--LAW  
SS,OP97,FP4385,AR284.31395,ZE90.05549,SD394.792,--LAW  
LS,HI5.1200,HR5.3000  
SS,OP97,FP4386,AR286.08324,ZE89.49050,SD404.068,--BWW2 CL  
SS,OP97,FP4387,AR290.40025,ZE89.48324,SD417.797,--BWW3 ST  
SS,OP97,FP4388,AR290.37117,ZE89.49019,SD418.899,--BWW3  
SS,OP97,FP4389,AR290.40509,ZE89.49019,SD419.108,--BWW3  
SS,OP97,FP4390,AR290.44536,ZE89.49211,SD418.799,--BWW3  
LS,HI5.1200,HR10.4300  
SS,OP97,FP4391,AR293.16351,ZE89.58532,SD411.806,--BWW3  
SS,OP97,FP4392,AR293.12073,ZE89.56512,SD410.326,--BWW3 CL  
LS,HI5.1200,HR17.5700  
SS,OP97,FP4393,AR293.11530,ZE89.30511,SD411.960,--LAW  
LS,HI5.1200,HR5.3000  
SS,OP97,FP4394,AR290.02552,ZE89.50392,SD460.248,--BWW4 ST  
SS,OP97,FP4395,AR290.05395,ZE89.50392,SD460.360,--BWW4  
LS,HI5.1200,HR13.5500  
SS,OP97,FP4396,AR291.35035,ZE89.36086,SD482.548,--BWW4  
SS,OP97,FP4397,AR291.45207,ZE89.39514,SD481.893,--BWW4

LS,HI5.1200,HR17.5700  
SS,OP97,FP4398,AR291.04003,ZE89.35416,SD472.733,--LAWE  
LS,HI5.1200,HR5.3000  
SS,OP97,FP4399,AR290.12391,ZE89.51096,SD459.589,--BWW4  
SS,OP97,FP4400,AR290.04304,ZE89.50458,SD459.040,--BWW4 CL  
SP,PN4401,N 1078299.739,E 566601.674,EL244.157,--SECT26  
CF,EL244.157,GD0.000  
DE,PN140,N 1078309.400,E 566595.000,EL0.000,--SECT26  
SD,ND9.661,ED-6.674,LD-244.157  
SK,OP97,FP4401,AR101.54281,ZE86.42225,SD258.883,--SECT26  
SP,PN4402,N 1078216.936,E 566567.858,EL236.709,--XS26  
SK,OP97,FP4402,AR110.29423,ZE87.34049,SD175.017,--XS26  
SP,PN4403,N 1078147.654,E 566536.466,EL233.846,--XS26 LELB  
SK,OP97,FP4403,AR126.32190,ZE87.36333,SD109.398,--XS26 LELB  
SP,PN4404,N 1078136.115,E 566531.023,EL232.601,--XS26 LELB  
SK,OP97,FP4404,AR131.07010,ZE88.05321,SD99.699,--XS26 LELB  
SP,PN4405,N 1078124.646,E 566527.390,EL232.950,--XS26 RDU  
SK,OP97,FP4405,AR136.54116,ZE87.43465,SD92.587,--XS26 RDU  
SP,PN4406,N 1078112.727,E 566527.525,EL232.659,--XS26 PE  
SK,OP97,FP4406,AR144.14147,ZE87.51152,SD90.194,--XS26 PE  
SP,PN4407,N 1078093.182,E 566527.688,EL232.188,--XS26 PRC  
SK,OP97,FP4407,AR156.43280,ZE88.08282,SD89.573,--XS26 PRC  
SP,PN4408,N 1078072.373,E 566528.010,EL230.530,--XS26 PE  
SK,OP97,FP4408,AR169.31162,ZE89.14108,SD93.633,--XS26 PE  
SP,PN4409,N 1078066.377,E 566522.642,EL230.410,--XS26 LELB  
SK,OP97,FP4409,AR174.08314,ZE89.17109,SD90.520,--XS26 LELB  
SP,PN4410,N 1078053.468,E 566520.600,EL233.500,--XS26 LELB  
SK,OP97,FP4410,AR181.55486,ZE87.26090,SD94.290,--XS26 LELB  
SP,PN4411,N 1078011.396,E 566508.634,EL232.337,--XS26 LELB  
SK,OP97,FP4411,AR204.08052,ZE88.26472,SD112.677,--XS26 LELB  
SP,PN4412,N 1077981.885,E 566488.155,EL228.001,--XS26 LELB

SK,OP97,FP4412,AR219.46307,ZE90.34300,SD127.665,--XS26 LELB

BK,OP97,BP57,BS297.16362,BC0.00000

SS,OP97,FP57,AR0.00000,ZE89.17298,SD288.885,--GPS

BK,OP97,BP57,BS297.16362,BC0.00000

SS,OP97,FP57,AR0.00000,ZE89.17312,SD288.886,--GPS

BK,OP97,BP57,BS297.16362,BC0.00000

SS,OP97,FP57,AR0.00000,ZE89.17296,SD288.886,--GPS

LS,HI5.1200,HR5.2700

SS,OP97,FP67,AR281.41012,ZE90.05219,SD565.059,--CB

SS,OP97,FP67,AR281.41013,ZE90.05217,SD565.059,--CB

SS,OP97,FP67,AR281.41013,ZE90.05217,SD565.058,--CB

LS,HI5.1200,HR5.3000

SS,OP97,FP57,AR180.00086,ZE270.42323,SD288.885,--GPS

SS,OP97,FP57,AR180.00084,ZE270.42325,SD288.884,--GPS

SS,OP97,FP57,AR180.00093,ZE270.42323,SD288.884,--GPS

LS,HI5.1200,HR5.2700

SS,OP97,FP67,AR101.41013,ZE269.54379,SD565.057,--CB

SS,OP97,FP67,AR101.41013,ZE269.54379,SD565.055,--CB

SS,OP97,FP67,AR101.41013,ZE269.54379,SD565.058,--CB

BK,OP97,BP57,BS297.16374,BC0.00000

LS,HI5.1200,HR5.3000

SS,OP97,FP57,AR0.00000,ZE89.17302,SD288.886,--GPS

BK,OP97,BP57,BS297.16374,BC0.00000

SS,OP97,FP57,AR0.00000,ZE89.17308,SD288.883,--GPS

BK,OP97,BP57,BS297.16374,BC0.00000

SS,OP97,FP57,AR0.00000,ZE89.17309,SD288.888,--GPS

LS,HI5.1200,HR5.2700

SS,OP97,FP67,AR281.41012,ZE90.05217,SD565.059,--CB

SS,OP97,FP67,AR281.41012,ZE90.05217,SD565.057,--CB

SS,OP97,FP67,AR281.41012,ZE90.05217,SD565.057,--CB

LS,HI5.1200,HR5.3000

SS,OP97,FP57,AR180.00063,ZE270.42316,SD288.885,--GPS

SS,OP97,FP57,AR180.00071,ZE270.42318,SD288.889,--GPS

SS,OP97,FP57,AR180.00076,ZE270.42325,SD288.886,--GPS

LS,HI5.1200,HR5.2700

SS,OP97,FP67,AR101.41012,ZE269.54379,SD565.056,--CB

SS,OP97,FP67,AR101.41012,ZE269.54379,SD565.057,--CB

SS,OP97,FP67,AR101.41012,ZE269.54379,SD565.058,--CB

LS,HI5.1200,HR5.3000

LS,HI5.1200,HR5.2700

--Round: 1, PN: 57, dHz: -0°00'00", dVt: 0°00'01", dSD: 0.000

--Round: 1, PN: 57, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.001

--Round: 1, PN: 57, dHz: -0°00'00", dVt: 0°00'00", dSD: 0.000

--Round: 1, PN: 67, dHz: 0°00'04", dVt: -0°00'00", dSD: 0.002

--Round: 1, PN: 67, dHz: 0°00'04", dVt: -0°00'00", dSD: 0.001

--Round: 1, PN: 67, dHz: 0°00'04", dVt: -0°00'00", dSD: 0.000

--Round: 1, PN: 57, dHz: -0°00'00", dVt: -0°00'01", dSD: 0.000

--Round: 1, PN: 57, dHz: -0°00'00", dVt: -0°00'02", dSD: -0.002

--Round: 1, PN: 57, dHz: 0°00'01", dVt: -0°00'01", dSD: -0.002

--Round: 1, PN: 67, dHz: -0°00'05", dVt: 0°00'00", dSD: -0.001

--Round: 1, PN: 67, dHz: -0°00'05", dVt: 0°00'00", dSD: -0.002

--Round: 1, PN: 67, dHz: -0°00'05", dVt: 0°00'00", dSD: 0.001

--Round: 2, PN: 57, dHz: -0°00'00", dVt: 0°00'01", dSD: 0.000

--Round: 2, PN: 57, dHz: -0°00'00", dVt: 0°00'02", dSD: -0.002

--Round: 2, PN: 57, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.003

--Round: 2, PN: 67, dHz: 0°00'04", dVt: -0°00'00", dSD: 0.001

--Round: 2, PN: 67, dHz: 0°00'04", dVt: -0°00'00", dSD: 0.000

--Round: 2, PN: 67, dHz: 0°00'04", dVt: -0°00'00", dSD: 0.000

--Round: 2, PN: 57, dHz: -0°00'00", dVt: -0°00'01", dSD: 0.000

--Round: 2, PN: 57, dHz: 0°00'01", dVt: -0°00'01", dSD: 0.003

--Round: 2, PN: 57, dHz: 0°00'01", dVt: -0°00'02", dSD: 0.000

--Round: 2, PN: 67, dHz: -0°00'03", dVt: 0°00'00", dSD: -0.002

--Round: 2, PN: 67, dHz: -0°00'03", dVt: 0°00'00", dSD: -0.001

--Round: 2, PN: 67, dHz: -0°00'03", dvt: 0°00'00", dSD: 0.001

LS,HI5.1200,HR5.3000

SP,PN4413,N 1077924.539,E 566475.095,EL224.818,--XS26 LELB

SK,OP97,FP4413,AR230.52081,ZE91.25517,SD178.774,--XS26 LELB

SP,PN4414,N 1077862.161,E 566450.379,EL224.538,--SECT26

CF,EL224.538,GD0.000

DE,PN141,N 1077858.600,E 566455.400,EL0.000,--SECT26

SD,ND-3.561,ED5.021,LD-224.538

SK,OP97,FP4414,AR239.49448,ZE91.08385,SD237.642,--SECT26

LS,HI5.1200,HR21.5700

SP,PN4415,N 1077756.765,E 566343.560,EL225.793,--XS26 LELB

SK,OP97,FP4415,AR258.11278,ZE87.56306,SD355.809,--XS26 LELB

LS,HI5.1200,HR25.5000

SP,PN4416,N 1077831.379,E 566551.413,EL229.234,--SECT25

CF,EL229.234,GD0.000

DE,PN136,N 1077844.300,E 566552.100,EL0.000,--SECT25

SD,ND12.921,ED0.687,LD-229.234

SK,OP97,FP4416,AR219.51336,ZE86.02168,SD291.631,--SECT25

LS,HI5.1200,HR17.5700

SP,PN4417,N 1077877.762,E 566576.325,EL232.307,--XS25 LELB

SK,OP97,FP4417,AR210.49464,ZE86.38525,SD261.554,--XS25 LELB

SP,PN4418,N 1077929.614,E 566595.860,EL232.977,--XS25

SK,OP97,FP4418,AR199.52554,ZE86.03259,SD232.164,--XS25

LS,HI5.1200,HR5.3000

SP,PN4419,N 1078005.694,E 566618.842,EL233.824,--XS25 LELB

SK,OP97,FP4419,AR180.10178,ZE88.43145,SD203.417,--XS25 LELB

SP,PN4420,N 1078096.669,E 566650.931,EL233.106,--XS25 LELB

SK,OP97,FP4420,AR153.27585,ZE88.58109,SD212.615,--XS25 LELB

SP,PN4421,N 1078121.477,E 566659.859,EL233.501,--XS25 PE

SK,OP97,FP4421,AR147.02128,ZE88.54516,SD222.627,--XS25 PE

SP,PN4422,N 1078147.171,E 566675.521,EL234.768,--XS25 PRC

SK,OP97,FP4422,AR141.20200,ZE88.42040,SD241.976,--XS25 PRC

SP,PN4423,N 1078169.436,E 566681.537,EL234.160,--XS25 PE  
SK,OP97,FP4423,AR136.39365,ZE88.53455,SD253.097,--XS25 PE  
SP,PN4424,N 1078171.805,E 566681.997,EL233.883,--XS25 LELB  
SK,OP97,FP4424,AR136.10320,ZE88.57473,SD254.199,--XS25 LELB  
SP,PN4425,N 1078176.094,E 566684.406,EL232.071,--XS25 DD  
SK,OP97,FP4425,AR135.24496,ZE89.22489,SD257.726,--XS25 DD  
SP,PN4426,N 1078182.774,E 566688.751,EL235.584,--XS25 LELB  
SK,OP97,FP4426,AR134.18349,ZE88.37564,SD263.972,--XS25 LELB  
SP,PN4427,N 1078230.574,E 566685.715,EL240.539,--XS25  
SK,OP97,FP4427,AR124.47147,ZE87.41521,SD280.199,--XS25  
SP,PN4428,N 1078250.674,E 566692.180,EL242.312,--XS25  
SK,OP97,FP4428,AR121.55468,ZE87.28312,SD295.757,--XS25  
SP,PN4429,N 1078250.674,E 566692.180,EL242.312,--XS25  
SK,OP97,FP4429,AR121.55468,ZE87.28312,SD295.757,--XS25  
LS,HI5.1200,HR4.8500  
SS,OP97,FP4430,AR0.00043,ZE89.17290,SD288.885,--GPS57  
OC,OP61,N 1077296.5209,E 563973.1868,EL237.6460,--GPS  
BK,OP61,BP95,BS292.38373,BC0.00000  
LS,HI4.8100,HR5.1700  
SS,OP61,FP95,AR0.00000,ZE89.47284,SD913.052,--CB  
LS,HI4.8100,HR4.0000  
SP,PN4431,N 1077456.251,E 563509.308,EL236.582,--XS44 LAWA LELB  
SK,OP61,FP4431,AR356.21240,ZE90.13100,SD490.662,--XS44 LAWA LELB  
LS,HI4.8100,HR5.3000  
SP,PN4432,N 1077471.941,E 563517.662,EL237.401,--XS44 LELB  
SK,OP61,FP4432,AR358.25038,ZE89.58186,SD488.183,--XS44 LELB  
SP,PN4433,N 1077479.727,E 563520.604,EL237.261,--XS44 PE  
SK,OP61,FP4433,AR359.23401,ZE89.59178,SD488.307,--XS44 PE  
SP,PN4434,N 1077495.778,E 563533.060,EL238.941,--XS44 PRC  
SK,OP61,FP4434,AR1.42497,ZE89.47200,SD483.182,--XS44 PRC  
SP,PN4435,N 1077512.634,E 563540.217,EL239.527,--XS44 PE

SK,OP61,FP4435,AR3.52553,ZE89.43116,SD483.963,--XS44 PE  
SP,PN4436,N 1077301.227,E 563956.331,EL238.391,--XS43 PE  
SK,OP61,FP4436,AR352.57171,ZE85.57539,SD17.545,--XS43 PE  
SP,PN4437,N 1077284.496,E 563948.519,EL238.954,--XS43 PRC  
SK,OP61,FP4437,AR311.22065,ZE86.15039,SD27.505,--XS43 PRC  
SP,PN4438,N 1077267.519,E 563939.917,EL238.012,--XS43 PE  
SK,OP61,FP4438,AR296.16379,ZE88.53228,SD44.149,--XS43 PE  
SP,PN4439,N 1077263.494,E 563938.066,EL237.328,--XS43 LELB  
SK,OP61,FP4439,AR294.06582,ZE89.47463,SD48.216,--XS43 LELB  
LS,HI4.8100,HR9.4300  
SP,PN4440,N 1077254.343,E 563933.464,EL233.270,--XS43 LELB  
SK,OP61,FP4440,AR290.38198,ZE89.45303,SD57.945,--XS43 LELB  
SP,PN4441,N 1077239.480,E 563926.133,EL232.189,--XS43 LAWA  
SK,OP61,FP4441,AR286.52328,ZE90.38540,SD73.956,--XS43 LAWA  
LS,HI4.8100,HR5.3000  
SP,PN4442,N 1077007.137,E 564398.672,EL235.303,--XS42 LAWA LELB  
SK,OP61,FP4442,AR191.34371,ZE90.12250,SD514.624,--XS42 LAWA LELB  
SS,OP61,FP4443,AR191.34371,ZE90.12250,SD514.506,--XS42 LAWA LELB  
SP,PN4444,N 1077022.571,E 564405.218,EL238.789,--XS42 PE LELB  
SK,OP61,FP4444,AR189.44060,ZE89.49038,SD511.620,--XS42 PE LELB  
SP,PN4445,N 1077038.764,E 564413.571,EL239.508,--XS42 PRC  
SK,OP61,FP4445,AR187.41484,ZE89.44116,SD510.328,--XS42 PRC  
SP,PN4446,N 1077055.612,E 564422.620,EL238.824,--XS42 PE  
SK,OP61,FP4446,AR185.32560,ZE89.48475,SD509.983,--XS42 PE  
SP,PN4447,N 1077228.245,E 563914.632,EL231.043,--XS43 LELB  
SK,OP61,FP4447,AR287.58242,ZE93.53164,SD90.163,--XS43 LELB  
LS,HI4.8100,HR18.0700  
SP,PN4448,N 1077202.549,E 563897.405,EL219.445,--XS43 LAWE LELB  
SK,OP61,FP4448,AR286.14247,ZE92.20366,SD120.835,--XS43 LAWE LELB  
LS,HI4.8100,HR17.5700  
SP,PN4449,N 1077191.560,E 563887.329,EL217.969,--XS43 RB  
SK,OP61,FP4449,AR286.38215,ZE92.55122,SD135.794,--XS43 RB

LS,HI4.8100,HR15.5500

SP,PN4450,N 1077156.359,E 563866.024,EL217.776,--XS43 RB

SK,OP61,FP4450,AR284.45235,ZE92.57443,SD176.688,--XS43 RB

LS,HI4.8100,HR14.6000

SP,PN4451,N 1077125.253,E 563849.821,EL217.063,--XS43 RB

SK,OP61,FP4451,AR283.07188,ZE92.55376,SD211.370,--XS43 RB

LS,HI4.8100,HR11.4000

SP,PN4452,N 1077107.963,E 563838.140,EL219.097,--XS43 LAWE LELB

SK,OP61,FP4452,AR282.58006,ZE92.57061,SD232.261,--XS43 LAWE LELB

LS,HI4.8100,HR9.4300

SP,PN4453,N 1077098.346,E 563833.176,EL227.838,--XS43 LELB

SK,OP61,FP4453,AR282.35511,ZE91.13301,SD242.724,--XS43 LELB

LS,HI4.8100,HR5.8000

SP,PN4454,N 1077082.098,E 563822.208,EL229.243,--XS43 LELB

SK,OP61,FP4454,AR282.30225,ZE91.37099,SD262.375,--XS43 LELB

LS,HI4.8100,HR5.3000

SP,PN4455,N 1078071.207,E 564407.980,EL232.491,--XS43 LELB LAWA

SK,OP61,FP4455,AR96.39347,ZE90.18069,SD888.461,--XS43 LELB LAWA

SP,PN4456,N 1078094.683,E 564423.990,EL233.544,--XS43 LELB

SK,OP61,FP4456,AR96.48509,ZE90.13365,SD916.770,--XS43 LELB

LS,HI4.8100,HR16.0000

SP,PN4457,N 1078104.417,E 564433.075,EL226.893,--XS43 RB

SK,OP61,FP4457,AR97.00239,ZE89.58270,SD929.713,--XS43 RB

DP,PN4458

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SP,PN4459,N 1078114.221,E 564437.835,EL227.472,--XS43 RB

SK,OP61,FP4459,AR96.57474,ZE89.58548,SD940.590,--XS43 RB

LS,HI4.8100,HR13.5500

SP,PN4460,N 1078132.806,E 564445.765,EL227.805,--XS43 RB

SK,OP61,FP4460,AR96.49362,ZE90.04005,SD960.671,--XS43 RB



SP,PN4461,N 1078149.972,E 564456.857,EL227.112,--XS43 RB  
SK,OP61,FP4461,AR96.53511,ZE90.06212,SD981.077,--XS43 RB  
LS,HI4.8100,HR12.5000  
SP,PN4462,N 1078157.382,E 564464.497,EL228.106,--XS43 LAWE  
SK,OP61,FP4462,AR97.04141,ZE90.06292,SD991.296,--XS43 LAWE  
LS,HI4.8100,HR8.7000  
SP,PN4463,N 1078162.356,E 564465.974,EL231.518,--XS43 LELB  
SK,OP61,FP4463,AR97.00091,ZE90.07475,SD996.351,--XS43 LELB  
LS,HI4.8100,HR8.0000  
OF,AR97.03302,ZE90.07242,SD996.891  
OF,OL-30.000,--Right Angle Offset  
OF,HD100.000,--Horizontal Distance Offset  
SS,OP61,FP4464,AR95.29303,ZE90.06444,SD1097.301,--XS43 LELB  
LS,HI4.8100,HR13.5500  
SP,PN4465,N 1078094.158,E 564428.327,EL228.250,--XS43 LAWE  
SK,OP61,FP4465,AR97.03569,ZE90.02313,SD918.448,--XS43 LAWE  
LS,HI4.8100,HR5.1700  
SS,OP61,FP4466,AR359.59540,ZE89.48190,SD912.937,--GPS95  
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LS,HI5.2000,HR4.9400  
SS,OP95,FP62,AR0.00000,ZE89.59102,SD768.799,--GPS  
LS,HI5.2000,HR5.3000  
SP,PN4467,N 1078011.140,E 563145.374,EL237.017,--XS45 LELB  
SK,OP95,FP4467,AR110.10419,ZE90.33040,SD363.487,--XS45 LELB  
SP,PN4468,N 1077915.885,E 563098.298,EL241.226,--XS45 LELB  
SK,OP95,FP4468,AR100.58201,ZE89.50546,SD269.848,--XS45 LELB  
SP,PN4469,N 1077867.547,E 563064.209,EL241.569,--XS45 RDU  
SK,OP95,FP4469,AR91.01189,ZE89.44093,SD229.387,--XS45 RDU  
SP,PN4470,N 1077854.071,E 563056.949,EL241.703,--XS45 RDU  
SK,OP95,FP4470,AR88.10477,ZE89.41171,SD218.859,--XS45 RDU  
SP,PN4471,N 1077769.705,E 563006.408,EL241.603,--XS45 PE

SK,OP95,FP4471,AR62.16004,ZE89.38256,SD173.905,--XS45 PE  
SP,PN4472,N 1077652.290,E 562936.066,EL241.783,--XS45  
SK,OP95,FP4472,AR19.06399,ZE89.37325,SD194.613,--XS45  
DP,PN4473  
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CF,EL241.880,GD0.000  
DE,PN204,N 1077619.400,E 562913.600,EL0.000,--SECT45  
SD,ND11.178,ED-0.868,LD-241.880  
SK,OP95,FP4474,AR7.25118,ZE89.38361,SD219.797,--SECT45 PE  
SP,PN4475,N 1077590.320,E 562919.414,EL241.198,--XS45 PRC  
SK,OP95,FP4475,AR2.34196,ZE89.49131,SD218.954,--XS45 PRC  
SP,PN4476,N 1077572.116,E 562923.943,EL239.697,--XS45 PE  
SK,OP95,FP4476,AR357.41083,ZE90.12435,SD220.182,--XS45 PE  
SP,PN4477,N 1077564.338,E 562925.648,EL238.730,--XS45 LELB  
SK,OP95,FP4477,AR355.38360,ZE90.27396,SD221.410,--XS45 LELB  
LS,HI5.2000,HR13.5500  
SP,PN4478,N 1077543.383,E 562931.995,EL226.464,--XS45 LELB  
SK,OP95,FP4478,AR350.04146,ZE91.28456,SD224.582,--XS45 LELB  
LS,HI5.2000,HR17.5700  
SP,PN4479,N 1077536.281,E 562934.520,EL220.202,--XS45 LAWE  
SK,OP95,FP4479,AR348.10347,ZE92.02237,SD225.850,--XS45 LAWE  
SP,PN4480,N 1077533.001,E 562935.873,EL217.144,--XS45 RB  
SK,OP95,FP4480,AR347.17046,ZE92.48325,SD226.454,--XS45 RB  
LS,HI5.2000,HR21.5700  
SP,PN4481,N 1077509.627,E 562939.063,EL215.768,--XS45 RB  
SK,OP95,FP4481,AR342.00137,ZE92.03125,SD236.477,--XS45 RB  
LS,HI5.2000,HR17.5700  
SP,PN4482,N 1077480.748,E 562947.534,EL217.377,--XS45 RB  
SK,OP95,FP4482,AR335.26042,ZE92.30304,SD248.237,--XS45 RB  
SP,PN4483,N 1077451.187,E 562958.912,EL216.784,--XS43 RB

SK,OP95,FP4483,AR328.56582,ZE92.30424,SD261.462,--XS43 RB

LS,HI5.2000,HR5.3000

SP,PN4484,N 1077425.368,E 562967.756,EL217.175,--XS45 RB

SK,OP95,FP4484,AR324.02017,ZE94.50072,SD276.855,--XS45 RB

LS,HI5.2000,HR3.0000

SP,PN4485,N 1077421.623,E 562969.605,EL219.959,--XS45 LAWE

SK,OP95,FP4485,AR323.16118,ZE94.42088,SD278.764,--XS45 LAWE

LS,HI5.2000,HR4.9400

SS,OP95,FP4486,AR359.59482,ZE89.59158,SD768.699,--GPS62

OC,OP62,N 1077412.3638,E 562398.8475,EL241.1713,--GPS

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SS,OP62,FP95,AR0.00000,ZE90.03358,SD768.793,--CB

BK,OP62,BP95,BS72.08540,BC0.00000

SS,OP62,FP95,AR0.00000,ZE90.03330,SD768.793,--CB

LS,HI5.2200,HR4.7600

SS,OP62,FP63,AR181.11415,ZE89.38350,SD492.655,--CB

SS,OP62,FP63,AR181.11397,ZE89.38352,SD492.654,--CB

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LS,HI5.2200,HR4.9300

SS,OP62,FP95,AR180.00140,ZE269.56431,SD768.793,--CB

SS,OP62,FP95,AR180.00139,ZE269.56416,SD768.794,--CB

SS,OP62,FP95,AR180.00117,ZE269.56400,SD768.794,--CB

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LS,HI5.2200,HR4.7600

SS,OP62,FP63,AR181.11393,ZE89.38341,SD492.655,--CB

SS,OP62,FP63,AR181.11381,ZE89.38343,SD492.654,--CB

SS,OP62,FP63,AR181.11392,ZE89.38346,SD492.651,--CB

LS,HI5.2200,HR4.9300

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SS,OP62,FP95,AR180.00095,ZE269.56401,SD768.785,--CB

SS,OP62,FP95,AR180.00085,ZE269.56382,SD768.795,--CB

LS,HI5.2200,HR4.7600

SS,OP62,FP63,AR1.11450,ZE270.21391,SD492.654,--CB

SS,OP62,FP63,AR1.11432,ZE270.21405,SD492.655,--CB

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LS,HI5.2200,HR4.9300

LS,HI5.2200,HR4.7600

--Round: 1, PN: 95, dHz: 0°00'01", dVt: 0°00'06", dSD: -0.002

--Round: 1, PN: 95, dHz: 0°00'01", dVt: 0°00'08", dSD: 0.001

--Round: 1, PN: 95, dHz: 0°00'01", dVt: 0°00'06", dSD: 0.000

--Round: 1, PN: 63, dHz: 0°00'06", dVt: 0°00'08", dSD: 0.002

--Round: 1, PN: 63, dHz: 0°00'04", dVt: 0°00'08", dSD: 0.000

--Round: 1, PN: 63, dHz: 0°00'05", dVt: 0°00'08", dSD: -0.002

--Round: 1, PN: 95, dHz: 0°00'01", dVt: -0°00'11", dSD: 0.000

--Round: 1, PN: 95, dHz: 0°00'01", dVt: -0°00'09", dSD: 0.001

--Round: 1, PN: 95, dHz: -0°00'02", dVt: -0°00'07", dSD: 0.001

--Round: 1, PN: 63, dHz: -0°00'03", dVt: -0°00'09", dSD: -0.002

--Round: 1, PN: 63, dHz: -0°00'04", dVt: -0°00'08", dSD: 0.000

--Round: 1, PN: 63, dHz: -0°00'05", dVt: -0°00'07", dSD: 0.001

--Round: 2, PN: 95, dHz: 0°00'01", dVt: 0°00'10", dSD: 0.003

--Round: 2, PN: 95, dHz: 0°00'01", dVt: 0°00'07", dSD: 0.002  
--Round: 2, PN: 95, dHz: 0°00'01", dVt: 0°00'10", dSD: 0.001  
--Round: 2, PN: 63, dHz: 0°00'04", dVt: 0°00'07", dSD: 0.001  
--Round: 2, PN: 63, dHz: 0°00'02", dVt: 0°00'07", dSD: 0.000  
--Round: 2, PN: 63, dHz: 0°00'03", dVt: 0°00'07", dSD: -0.002  
--Round: 2, PN: 95, dHz: 0°00'01", dVt: -0°00'07", dSD: -0.002  
--Round: 2, PN: 95, dHz: -0°00'02", dVt: -0°00'07", dSD: -0.007  
--Round: 2, PN: 95, dHz: -0°00'03", dVt: -0°00'06", dSD: 0.003  
--Round: 2, PN: 63, dHz: -0°00'03", dVt: -0°00'07", dSD: 0.000  
--Round: 2, PN: 63, dHz: -0°00'05", dVt: -0°00'08", dSD: 0.002  
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LS,HI5.2200,HR9.4300

SP,PN4487,N 1077523.119,E 562314.097,EL242.376,--SECT46  
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DE,PN209,N 1077524.000,E 562307.200,EL0.000,--SECT46  
SD,ND0.881,ED-6.897,LD-242.376

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SP,PN4488,N 1077564.612,E 562328.079,EL241.117,--XS46 LELB  
SK,OP62,FP4488,AR262.55111,ZE88.34569,SD167.960,--XS46 LELB  
SP,PN4489,N 1077615.429,E 562350.140,EL241.016,--XS46 LELB  
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LS,HI5.2200,HR5.3000

SP,PN4490,N 1077816.104,E 562462.032,EL242.497,--XS46  
SK,OP62,FP4490,AR296.44394,ZE89.48122,SD408.698,--XS46  
SP,PN4491,N 1077885.074,E 562500.162,EL242.770,--XS46  
SK,OP62,FP4491,AR299.56483,ZE89.48060,SD483.497,--XS46  
LS,HI5.2200,HR9.4300

SP,PN4492,N 1078036.363,E 562573.084,EL243.227,--XS46  
SK,OP62,FP4492,AR303.27028,ZE89.26483,SD647.964,--XS46  
LS,HI5.2200,HR5.3000

SP,PN4493,N 1078135.078,E 562626.792,EL243.643,--XS46  
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SP,PN4494,N 1077509.980,E 562329.077,EL241.647,--XS46 LELB  
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LS,HI5.2200,HR9.4300  
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SK,OP62,FP4495,AR254.11555,ZE88.37082,SD102.188,--XS46 LELB  
LS,HI5.2200,HR5.3000  
SP,PN4496,N 1077473.874,E 562361.193,EL239.372,--XS46 LELB  
SK,OP62,FP4496,AR256.22348,ZE91.21558,SD72.148,--XS46 LELB  
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SK,OP62,FP4497,AR256.39381,ZE92.05174,SD64.033,--XS46 DD  
SP,PN4498,N 1077463.166,E 562369.462,EL240.296,--XS46 LELB  
SK,OP62,FP4498,AR257.48132,ZE90.46356,SD58.700,--XS46 LELB  
SP,PN4499,N 1077448.140,E 562380.627,EL241.953,--XS46 PE  
SK,OP62,FP4499,AR260.51404,ZE88.46161,SD40.162,--XS46 PE  
SP,PN4500,N 1077434.034,E 562392.291,EL242.183,--XS46 PRC  
SK,OP62,FP4500,AR271.00587,ZE87.14191,SD22.669,--XS46 PRC  
SP,PN4501,N 1077418.044,E 562403.638,EL241.383,--XS46 PE  
SK,OP62,FP4501,AR327.59308,ZE87.44544,SD7.437,--XS46 PE  
SP,PN4502,N 1077415.512,E 562411.113,EL240.730,--XS46 LELB  
SK,OP62,FP4502,AR3.27189,ZE91.38051,SD12.669,--XS46 LELB  
SP,PN4503,N 1077413.229,E 562415.263,EL239.175,--XS46 DD  
SK,OP62,FP4503,AR14.50004,ZE96.38532,SD16.551,--XS46 DD  
SP,PN4504,N 1077407.596,E 562423.443,EL241.528,--XS46 LELB  
SK,OP62,FP4504,AR28.49137,ZE89.00076,SD25.060,--XS46 LELB  
SP,PN4505,N 1077319.910,E 562508.133,EL241.893,--XS46 LELB  
SK,OP62,FP4505,AR58.04492,ZE89.40450,SD143.164,--XS46 LELB  
SP,PN4506,N 1077303.817,E 562524.349,EL243.274,--  
SK,OP62,FP4506,AR58.42232,ZE89.14484,SD165.962,--  
LS,HI5.2200,HR21.5700  
SP,PN4507,N 1077304.114,E 562524.257,EL227.022,--XS46 LELB  
SK,OP62,FP4507,AR58.38583,ZE89.14208,SD165.699,--XS46 LELB

LS,HI5.2200,HR25.5000

SP,PN4508,N 1077303.912,E 562528.332,EL220.195,--XS46 LAWE

SK,OP62,FP4508,AR57.47538,ZE90.14105,SD168.921,--XS46 LAWE

LS,HI5.2200,HR28.2000

SP,PN4509,N 1077289.463,E 562533.956,EL217.313,--XS46 RB

SK,OP62,FP4509,AR60.08270,ZE90.16320,SD182.664,--XS46 RB

LS,HI5.2200,HR25.1000

SP,PN4510,N 1077262.770,E 562562.811,EL217.056,--XS46 RB

SK,OP62,FP4510,AR60.13329,ZE91.05359,SD222.014,--XS46 RB

LS,HI5.2200,HR25.5000

SP,PN4511,N 1077223.662,E 562593.576,EL219.110,--XS46 RB

SK,OP62,FP4511,AR61.56576,ZE90.22362,SD271.193,--XS46 RB

SP,PN4512,N 1077217.950,E 562599.089,EL219.541,--XS46 LAWE

SK,OP62,FP4512,AR62.00134,ZE90.16393,SD279.125,--XS46 LAWE

LS,HI5.2200,HR4.9300

SS,OP62,FP4513,AR0.00003,ZE90.03310,SD768.695,--GPS95

OC,OP63,N 1077271.1702,E 561926.9224,EL244.7234,--CB

BK,OP63,BP62,BS73.20367,BC0.00000

LS,HI5.0700,HR4.9100

SS,OP63,FP62,AR0.00000,ZE90.25524,SD492.661,--GPS

LS,HI5.0700,HR5.3000

SS,OP63,FP4514,AR108.27565,ZE89.43559,SD439.621,--XS47 LELB

SS,OP63,FP4515,AR110.47379,ZE89.22473,SD447.837,--XS47 LELB RDU

LS,HI5.0700,HR4.9100

SS,OP63,FP4516,AR0.00026,ZE90.25562,SD492.655,--CB62

OC,OP59,N 1079162.3130,E 563504.1500,EL238.4170,--GPS

BK,OP59,BP60,BS260.29287,BC0.00000

LS,HI5.0400,HR4.6200

SS,OP59,FP60,AR0.00000,ZE89.43160,SD583.517,--GPS

LS,HI5.0400,HR5.3000

SP,PN4517,N 1079191.578,E 563541.665,EL238.165,--XS46 LAWA

SK,OP59,FP4517,AR151.33064,ZE89.59261,SD47.585,--XS46 LAWA

--Modified 11:03:45 AM 5/23/2014

--Old values xs48 lawa

SP,PN4518,N 1079253.487,E 563620.359,EL238.416,--XS46 LELB  
SK,OP59,FP4518,AR151.23317,ZE89.53587,SD147.722,--XS46 LELB

--Modified 11:04:02 AM 5/23/2014

--Old values xs48 lelB

LS,HI5.0400,HR5.6000  
SP,PN4519,N 1079276.974,E 563649.803,EL238.977,--XS46 LELB  
SK,OP59,FP4519,AR151.17540,ZE89.39148,SD185.392,--XS46 LELB

--Modified 11:04:10 AM 5/23/2014

--Old values XS48 LELB

LS,HI5.0400,HR8.8000  
SP,PN4520,N 1079286.836,E 563662.402,EL234.868,--XS46 LAWE  
SK,OP59,FP4520,AR151.18381,ZE89.56247,SD201.390,--XS46 LAWE

--Modified 11:04:21 AM 5/23/2014

--Old values XS48 LAWE

LS,HI5.0400,HR9.4300  
SP,PN4521,N 1079291.770,E 563668.672,EL234.421,--XS46 RB  
SK,OP59,FP4521,AR151.18381,ZE89.53330,SD209.369,--XS46 RB

--Modified 11:04:31 AM 5/23/2014

--Old values XS48 RB

LS,HI5.0400,HR11.2000  
SP,PN4522,N 1079304.039,E 563684.097,EL232.287,--XS46 RB  
SK,OP59,FP4522,AR151.17052,ZE89.59337,SD229.080,--XS46 RB

--Modified 11:04:43 AM 5/23/2014

--Old values XS48 RB

LS,HI5.0400,HR10.8000  
SP,PN4523,N 1079321.556,E 563706.746,EL233.238,--XS46 RB  
SK,OP59,FP4523,AR151.20271,ZE89.52163,SD257.715,--XS46 RB

--Modified 11:04:51 AM 5/23/2014

--Old values XS48 RB



LS,HI5.0400,HR11.4300

SP,PN4524,N 1079337.676,E 563727.177,EL232.667,--XS46 RB

SK,OP59,FP4524,AR151.19525,ZE89.52163,SD283.743,--XS46 RB

--Modified 11:04:58 AM 5/23/2014

--Old values XS48 RB

LS,HI5.0400,HR10.7300

SP,PN4525,N 1079354.550,E 563748.304,EL233.014,--XS46 RB

SK,OP59,FP4525,AR151.17357,ZE89.56510,SD310.783,--XS46 RB

--Modified 11:05:07 AM 5/23/2014

--Old values XS48 RB

LS,HI5.0400,HR9.4300

SP,PN4526,N 1079361.206,E 563757.289,EL234.537,--XS46 LAWE

SK,OP59,FP4526,AR151.21058,ZE89.54345,SD321.961,--XS46 LAWE

--Modified 11:05:15 AM 5/23/2014

--Old values XS48 LAWE

LS,HI5.0400,HR5.3000

SP,PN4527,N 1079361.854,E 563758.235,EL238.276,--XS46 LELB

SK,OP59,FP4527,AR151.21545,ZE89.58452,SD323.105,--XS46 LELB

--Modified 11:05:22 AM 5/23/2014

--Old values XS48 LELB

BK,OP59,BP60,BS260.29265,BC0.00000

SS,OP59,FP60,AR0.00000,ZE89.43187,SD583.409,--GPS

BK,OP59,BP60,BS260.29265,BC0.00000

SS,OP59,FP60,AR0.00000,ZE89.43195,SD583.409,--GPS

BK,OP59,BP60,BS260.29265,BC0.00000

SS,OP59,FP60,AR0.00000,ZE89.43196,SD583.409,--GPS

LS,HI5.0400,HR4.8500

SS,OP59,FP70,AR145.03372,ZE89.54362,SD158.709,--CB

SS,OP59,FP70,AR145.03376,ZE89.54356,SD158.708,--CB

SS,OP59,FP70,AR145.03367,ZE89.54355,SD158.707,--CB

LS,HI5.0400,HR5.3000

SS,OP59,FP60,AR180.00044,ZE270.16447,SD583.407,--GPS

SS,OP59,FP60,AR180.00042,ZE270.16439,SD583.412,--GPS  
SS,OP59,FP60,AR180.00061,ZE270.16431,SD583.410,--GPS  
LS,HI5.0400,HR4.8500  
SS,OP59,FP70,AR325.03464,ZE270.05251,SD158.711,--CB  
SS,OP59,FP70,AR325.03461,ZE270.05250,SD158.710,--CB  
SS,OP59,FP70,AR325.03448,ZE270.05249,SD158.710,--CB  
BK,OP59,BP60,BS260.29254,BC0.00000  
LS,HI5.0400,HR5.3000  
SS,OP59,FP60,AR0.00000,ZE89.43180,SD583.408,--GPS  
BK,OP59,BP60,BS260.29254,BC0.00000  
SS,OP59,FP60,AR0.00000,ZE89.43175,SD583.411,--GPS  
BK,OP59,BP60,BS260.29254,BC0.00000  
SS,OP59,FP60,AR0.00000,ZE89.43172,SD583.408,--GPS  
LS,HI5.0400,HR4.8500  
SS,OP59,FP70,AR145.03405,ZE89.54345,SD158.707,--CB  
SS,OP59,FP70,AR145.03406,ZE89.54360,SD158.708,--CB  
SS,OP59,FP70,AR145.03412,ZE89.54381,SD158.707,--CB  
LS,HI5.0400,HR5.3000  
SS,OP59,FP60,AR180.00067,ZE270.16455,SD583.410,--GPS  
SS,OP59,FP60,AR180.00073,ZE270.16452,SD583.409,--GPS  
SS,OP59,FP60,AR180.00061,ZE270.16463,SD583.409,--GPS  
LS,HI5.0400,HR4.8500  
SS,OP59,FP70,AR325.03474,ZE270.05247,SD158.708,--CB  
SS,OP59,FP70,AR325.03482,ZE270.05236,SD158.708,--CB  
SS,OP59,FP70,AR325.03487,ZE270.05258,SD158.712,--CB  
LS,HI5.0400,HR5.3000  
LS,HI5.0400,HR4.8500  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.000  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: 0°00'03", dSD: 0.000  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: 0°00'03", dSD: 0.000  
--Round: 1, PN: 70, dHz: -0°00'03", dVt: 0°00'01", dSD: 0.000

--Round: 1, PN: 70, dHz: -0°00'03", dVt: -0°00'00", dSD: -0.001  
--Round: 1, PN: 70, dHz: -0°00'03", dVt: -0°00'00", dSD: -0.001  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: -0°00'01", dSD: -0.002  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: -0°00'01", dSD: 0.002  
--Round: 1, PN: 60, dHz: 0°00'02", dVt: 0°00'00", dSD: 0.001  
--Round: 1, PN: 70, dHz: 0°00'02", dVt: -0°00'01", dSD: 0.002  
--Round: 1, PN: 70, dHz: 0°00'01", dVt: -0°00'01", dSD: 0.001  
--Round: 1, PN: 70, dHz: 0°00'00", dVt: -0°00'00", dSD: 0.001  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'01", dSD: -0.001  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'01", dSD: 0.002  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'00", dSD: -0.002  
--Round: 2, PN: 70, dHz: 0°00'00", dVt: -0°00'01", dSD: -0.001  
--Round: 2, PN: 70, dHz: 0°00'00", dVt: 0°00'00", dSD: -0.001  
--Round: 2, PN: 70, dHz: 0°00'01", dVt: 0°00'03", dSD: -0.002  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: -0°00'02", dSD: 0.001  
--Round: 2, PN: 60, dHz: 0°00'01", dVt: -0°00'02", dSD: 0.000  
--Round: 2, PN: 60, dHz: -0°00'01", dVt: -0°00'03", dSD: 0.000  
--Round: 2, PN: 70, dHz: 0°00'01", dVt: -0°00'00", dSD: 0.000  
--Round: 2, PN: 70, dHz: 0°00'01", dVt: 0°00'01", dSD: -0.001  
--Round: 2, PN: 70, dHz: 0°00'02", dVt: -0°00'01", dSD: 0.003  
OC,OP70,N 1079273.4384,E 563617.4394,EL238.8572,--CB  
BK,OP70,BP59,BS225.33089,BC0.00000  
LS,HI5.1600,HR4.7300  
SS,OP70,FP59,AR0.00000,ZE90.19161,SD158.804,--GPS  
LS,HI5.1600,HR5.3000  
SP,PN4528,N 1079429.557,E 563807.912,EL237.589,--XS46 LELB  
SK,OP70,FP4528,AR185.06297,ZE90.15458,SD246.305,--XS46 LELB  
LS,HI5.1600,HR4.5000  
OF,AR185.01534,ZE90.22020,SD330.134  
OF,OL-65.000,--Right Angle Offset  
SS,OP70,FP4529,AR173.53341,ZE90.21371,SD336.472,--XS46 LELB  
OF,AR185.02055,ZE90.21588,SD330.060

OF,OL-65.000,--Right Angle Offset  
OF,HD30.000,--Horizontal Distance Offset  
SS,OP70,FP4530,AR174.48055,ZE90.19500,SD365.879,--XS46 LELB  
LS,HI5.1600,HR0.0000  
OF,AR185.02370,ZE90.21071,SD330.165  
OF,OL-70.000,--Right Angle Offset  
OF,HD50.000,--Horizontal Distance Offset  
SS,OP70,FP4531,AR174.36374,ZE90.18027,SD386.555,--XS46 LELB  
OC,OP59,N 1079162.3130,E 563504.1500,EL238.4170,--GPS  
BK,OP59,BP60,BS260.29287,BC0.00000  
LS,HI5.0400,HR4.6200  
SS,OP59,FP60,AR0.00000,ZE89.43151,SD583.510,--GPS  
BK,OP59,BP60,BS260.29256,BC0.00000  
SS,OP59,FP60,AR0.00000,ZE89.43180,SD583.506,--GPS  
BK,OP59,BP60,BS260.29256,BC0.00000  
SS,OP59,FP60,AR0.00000,ZE89.43189,SD583.506,--GPS  
LS,HI5.0400,HR4.6600  
SS,OP59,FP71,AR267.14418,ZE90.08207,SD474.136,--CB  
SS,OP59,FP71,AR267.14428,ZE90.08201,SD474.135,--CB  
SS,OP59,FP71,AR267.14421,ZE90.08203,SD474.133,--CB  
LS,HI5.0400,HR4.6200  
SS,OP59,FP60,AR180.00062,ZE270.16447,SD583.507,--GPS  
SS,OP59,FP60,AR180.00052,ZE270.16466,SD583.504,--GPS  
SS,OP59,FP60,AR180.00068,ZE270.16444,SD583.508,--GPS  
LS,HI5.0400,HR4.6600  
SS,OP59,FP71,AR87.14478,ZE269.51439,SD474.131,--CB  
SS,OP59,FP71,AR87.14471,ZE269.51435,SD474.134,--CB  
SS,OP59,FP71,AR87.14456,ZE269.51435,SD474.136,--CB  
BK,OP59,BP60,BS260.29259,BC0.00000  
LS,HI5.0400,HR4.6200  
SS,OP59,FP60,AR0.00000,ZE89.43179,SD583.507,--GPS

BK,OP59,BP60,BS260.29259,BC0.00000  
SS,OP59,FP60,AR0.00000,ZE89.43175,SD583.505,--GPS  
BK,OP59,BP60,BS260.29259,BC0.00000  
SS,OP59,FP60,AR0.00000,ZE89.43184,SD583.505,--GPS  
LS,HI5.0400,HR4.6600  
SS,OP59,FP71,AR267.14401,ZE90.08190,SD474.135,--CB  
SS,OP59,FP71,AR267.14412,ZE90.08198,SD474.134,--CB  
SS,OP59,FP71,AR267.14412,ZE90.08194,SD474.136,--CB  
LS,HI5.0400,HR4.6200  
SS,OP59,FP60,AR180.00057,ZE270.16463,SD583.507,--GPS  
SS,OP59,FP60,AR180.00068,ZE270.16459,SD583.507,--GPS  
SS,OP59,FP60,AR180.00059,ZE270.16467,SD583.507,--GPS  
LS,HI5.0400,HR4.6600  
SS,OP59,FP71,AR87.14473,ZE269.51454,SD474.133,--CB  
SS,OP59,FP71,AR87.14476,ZE269.51445,SD474.135,--CB  
SS,OP59,FP71,AR87.14480,ZE269.51447,SD474.134,--CB  
LS,HI5.0400,HR4.6200  
LS,HI5.0400,HR4.6600  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: -0°00'01", dSD: 0.004  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: -0.001  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: 0°00'03", dSD: 0.000  
--Round: 1, PN: 71, dHz: 0°00'00", dVt: 0°00'03", dSD: 0.001  
--Round: 1, PN: 71, dHz: 0°00'01", dVt: 0°00'02", dSD: 0.000  
--Round: 1, PN: 71, dHz: 0°00'01", dVt: 0°00'02", dSD: -0.002  
--Round: 1, PN: 60, dHz: -0°00'00", dVt: -0°00'01", dSD: 0.000  
--Round: 1, PN: 60, dHz: -0°00'01", dVt: -0°00'03", dSD: -0.002  
--Round: 1, PN: 60, dHz: 0°00'01", dVt: -0°00'00", dSD: 0.001  
--Round: 1, PN: 71, dHz: 0°00'00", dVt: -0°00'02", dSD: -0.003  
--Round: 1, PN: 71, dHz: -0°00'00", dVt: -0°00'01", dSD: 0.000  
--Round: 1, PN: 71, dHz: -0°00'02", dVt: -0°00'01", dSD: 0.002  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.001  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: -0.001

--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: -0.002  
--Round: 2, PN: 71, dHz: -0°00'01", dVt: 0°00'01", dSD: 0.001  
--Round: 2, PN: 71, dHz: -0°00'00", dVt: 0°00'02", dSD: -0.001  
--Round: 2, PN: 71, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.001  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: -0°00'02", dSD: 0.000  
--Round: 2, PN: 60, dHz: 0°00'01", dVt: -0°00'02", dSD: 0.000  
--Round: 2, PN: 60, dHz: 0°00'00", dVt: -0°00'03", dSD: 0.000  
--Round: 2, PN: 71, dHz: 0°00'00", dVt: -0°00'03", dSD: -0.001  
--Round: 2, PN: 71, dHz: 0°00'00", dVt: -0°00'02", dSD: 0.001  
--Round: 2, PN: 71, dHz: 0°00'01", dVt: -0°00'03", dSD: -0.001  
OC,OP59,N 1079162.3130,E 563504.1500,EL238.4170,--GPS  
BK,OP59,BP60,BS260.29287,BC0.00000  
LS,HI5.0400,HR4.6200  
SS,OP59,FP60,AR0.00000,ZE89.43175,SD583.504,--GPS  
BK,OP59,BP60,BS260.29260,BC0.00000  
SS,OP59,FP60,AR0.00000,ZE89.43182,SD583.503,--GPS  
BK,OP59,BP60,BS260.29260,BC0.00000  
SS,OP59,FP60,AR0.00000,ZE89.43168,SD583.503,--GPS  
LS,HI5.0400,HR4.6500  
SS,OP59,FP72,AR260.13019,ZE90.12369,SD944.168,--CB  
SS,OP59,FP72,AR260.13015,ZE90.12380,SD944.168,--CB  
SS,OP59,FP72,AR260.13014,ZE90.12366,SD944.169,--CB  
LS,HI5.0400,HR4.6200  
SS,OP59,FP60,AR180.00054,ZE270.16475,SD583.506,--GPS  
SS,OP59,FP60,AR180.00071,ZE270.16471,SD583.504,--GPS  
SS,OP59,FP60,AR180.00053,ZE270.16465,SD583.503,--GPS  
LS,HI5.0400,HR4.6500  
SS,OP59,FP72,AR80.13060,ZE269.47285,SD944.170,--CB  
SS,OP59,FP72,AR80.13059,ZE269.47311,SD944.171,--CB  
SS,OP59,FP72,AR80.13042,ZE269.47310,SD944.168,--CB  
BK,OP59,BP60,BS260.29252,BC0.00000

LS,HI5.0400,HR4.6200

SS,OP59,FP60,AR0.00000,ZE89.43175,SD583.505,--GPS

BK,OP59,BP60,BS260.29252,BC0.00000

SS,OP59,FP60,AR0.00000,ZE89.43176,SD583.506,--GPS

BK,OP59,BP60,BS260.29252,BC0.00000

SS,OP59,FP60,AR0.00000,ZE89.43182,SD583.500,--GPS

LS,HI5.0400,HR4.6500

SS,OP59,FP72,AR260.13009,ZE90.12371,SD944.169,--CB

SS,OP59,FP72,AR260.13025,ZE90.12385,SD944.170,--CB

SS,OP59,FP72,AR260.13028,ZE90.12377,SD944.167,--CB

LS,HI5.0400,HR4.6200

SS,OP59,FP60,AR180.00070,ZE270.16489,SD583.507,--GPS

SS,OP59,FP60,AR180.00072,ZE270.16459,SD583.505,--GPS

SS,OP59,FP60,AR180.00074,ZE270.16463,SD583.508,--GPS

LS,HI5.0400,HR4.6500

SS,OP59,FP72,AR80.13065,ZE269.47302,SD944.168,--CB

SS,OP59,FP72,AR80.13050,ZE269.47290,SD944.171,--CB

SS,OP59,FP72,AR80.13074,ZE269.47293,SD944.170,--CB

LS,HI5.0400,HR4.6200

LS,HI5.0400,HR4.6500

--Round: 1, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: -0.001

--Round: 1, PN: 60, dHz: -0°00'00", dVt: 0°00'03", dSD: -0.002

--Round: 1, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: -0.002

--Round: 1, PN: 72, dHz: 0°00'01", dVt: 0°00'03", dSD: -0.001

--Round: 1, PN: 72, dHz: 0°00'01", dVt: 0°00'04", dSD: -0.002

--Round: 1, PN: 72, dHz: 0°00'01", dVt: 0°00'03", dSD: 0.000

--Round: 1, PN: 60, dHz: -0°00'00", dVt: -0°00'03", dSD: 0.001

--Round: 1, PN: 60, dHz: 0°00'02", dVt: -0°00'02", dSD: 0.000

--Round: 1, PN: 60, dHz: -0°00'00", dVt: -0°00'02", dSD: -0.002

--Round: 1, PN: 72, dHz: -0°00'00", dVt: -0°00'02", dSD: 0.001

--Round: 1, PN: 72, dHz: -0°00'00", dVt: -0°00'05", dSD: 0.002

--Round: 1, PN: 72, dHz: -0°00'02", dVt: -0°00'05", dSD: -0.001

--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.001  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.002  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: 0°00'03", dSD: -0.004  
--Round: 2, PN: 72, dHz: 0°00'00", dVt: 0°00'03", dSD: 0.000  
--Round: 2, PN: 72, dHz: 0°00'02", dVt: 0°00'05", dSD: 0.001  
--Round: 2, PN: 72, dHz: 0°00'02", dVt: 0°00'04", dSD: -0.002  
--Round: 2, PN: 60, dHz: -0°00'00", dVt: -0°00'04", dSD: 0.002  
--Round: 2, PN: 60, dHz: 0°00'00", dVt: -0°00'01", dSD: 0.000  
--Round: 2, PN: 60, dHz: 0°00'00", dVt: -0°00'02", dSD: 0.003  
--Round: 2, PN: 72, dHz: -0°00'01", dVt: -0°00'04", dSD: -0.001  
--Round: 2, PN: 72, dHz: -0°00'03", dVt: -0°00'03", dSD: 0.002  
--Round: 2, PN: 72, dHz: -0°00'00", dVt: -0°00'03", dSD: 0.001  
OC,OP72,N 1078271.2562,E 563816.0509,EL235.3748,--CB  
BK,OP72,BP59,BS340.42294,BC0.00000  
LS,HI4.9800,HR4.7400  
SS,OP72,FP59,AR0.00000,ZE89.50022,SD944.167,--GPS  
LS,HI4.9800,HR5.3000  
SP,PN4532,N 1078079.882,E 563854.386,EL234.462,--XS44 LELB LAWA  
SK,OP72,FP4532,AR187.57527,ZE90.10271,SD195.197,--XS44 LELB LAWA  
SP,PN4533,N 1078087.859,E 563859.726,EL232.358,--XS44 LELB  
SK,OP72,FP4533,AR185.53473,ZE90.49104,SD188.564,--XS44 LELB  
SP,PN4534,N 1078111.025,E 563863.079,EL232.575,--XS44 LAWE  
SK,OP72,FP4534,AR182.56055,ZE90.51029,SD167.025,--XS44 LAWE  
SP,PN4535,N 1078119.062,E 563866.825,EL231.187,--XS44 RB  
SK,OP72,FP4535,AR180.50330,ZE91.22520,SD160.503,--XS44 RB  
SP,PN4536,N 1078129.198,E 563870.803,EL231.143,--XS44 RB  
SK,OP72,FP4536,AR178.12513,ZE91.28182,SD152.310,--XS44 RB  
SP,PN4537,N 1078137.814,E 563873.846,EL232.363,--XS44 LAWE  
SK,OP72,FP4537,AR175.52260,ZE91.03371,SD145.460,--XS44 LAWE  
SP,PN4538,N 1078158.000,E 563875.328,EL234.892,--XS44 LELB  
SK,OP72,FP4538,AR171.39531,ZE90.04238,SD127.844,--XS44 LELB



SP,PN4539,N 1078254.862,E 563925.597,EL234.575,--XS44 LAWA  
SK,OP72,FP4539,AR117.48117,ZE90.14529,SD110.778,--XS44 LAWA  
SP,PN4540,N 1078320.731,E 563977.076,EL234.745,--XS44 LELB  
SK,OP72,FP4540,AR92.12441,ZE90.06197,SD168.471,--XS44 LELB  
SP,PN4541,N 1078345.103,E 563986.891,EL233.401,--XS44 LELB LAWA  
SK,OP72,FP4541,AR85.54540,ZE90.30334,SD186.143,--XS44 LELB LAWA  
SP,PN4542,N 1078371.280,E 563996.372,EL235.492,--XS44 LELB  
SK,OP72,FP4542,AR80.16289,ZE89.52432,SD206.226,--XS44 LELB  
LS,HI4.9800,HR9.4300  
SP,PN4543,N 1078388.032,E 564003.633,EL235.369,--XS44 LELB  
SK,OP72,FP4543,AR77.23178,ZE88.50536,SD221.027,--XS44 LELB  
LS,HI4.9800,HR13.5500  
SP,PN4544,N 1078394.900,E 564003.732,EL231.538,--XS44 LAWE  
SK,OP72,FP4544,AR75.54544,ZE88.47379,SD224.821,--XS44 LAWE  
SP,PN4545,N 1078398.677,E 564004.941,EL227.559,--XS44 RB  
SK,OP72,FP4545,AR75.17212,ZE89.48383,SD227.874,--XS44 RB  
LS,HI4.9800,HR17.5700  
SP,PN4546,N 1078413.954,E 564015.598,EL226.765,--XS44 RB  
SK,OP72,FP4546,AR73.43226,ZE89.04154,SD245.377,--XS44 RB  
LS,HI4.9800,HR9.4300  
SP,PN4547,N 1078419.071,E 564020.610,EL231.831,--XS44 LAWE  
SK,OP72,FP4547,AR73.26238,ZE89.47404,SD252.403,--XS44 LAWE  
SP,PN4548,N 1078419.743,E 564021.502,EL232.768,--XS44 LELB  
SK,OP72,FP4548,AR73.26052,ZE89.35013,SD253.525,--XS44 LELB  
LS,HI4.9800,HR5.3000  
SP,PN4549,N 1078431.621,E 564027.990,EL233.628,--XS44  
SK,OP72,FP4549,AR72.10433,ZE90.18282,SD265.803,--XS44  
SP,PN4550,N 1078440.814,E 564041.128,EL234.311,--XS44 LELB  
SK,OP72,FP4550,AR72.18001,ZE90.09055,SD281.826,--XS44 LELB  
LS,HI4.9800,HR16.2000  
SP,PN4551,N 1078452.125,E 564040.535,EL232.306,--XS44 LAWE  
SK,OP72,FP4551,AR70.25596,ZE88.22515,SD288.426,--XS44 LAWE

LS,HI4.9800,HR17.5700

SP,PN4552,N 1078464.661,E 564048.430,EL231.250,--XS44 RB

SK,OP72,FP4552,AR69.31184,ZE88.23479,SD302.482,--XS44 RB

LS,HI4.9800,HR21.5700

SP,PN4553,N 1078478.035,E 564058.613,EL230.903,--XS44 RB

SK,OP72,FP4553,AR68.50418,ZE87.49237,SD319.000,--XS44 RB

SP,PN4554,N 1078495.447,E 564063.210,EL232.290,--XS44 LAWE

SK,OP72,FP4554,AR67.04534,ZE87.40591,SD333.997,--XS44 LAWE

LS,HI4.9800,HR4.7400

SS,OP72,FP4555,AR359.59556,ZE89.50151,SD944.066,--GPS59

OC,OP71,N 1078699.0465,E 563604.8523,EL237.6573,--CB

BK,OP71,BP59,BS347.44101,BC0.00000

LS,HI4.8100,HR4.7400

SS,OP71,FP59,AR0.00000,ZE89.54587,SD474.141,--GPS

LS,HI4.8100,HR5.3000

SP,PN4556,N 1078685.607,E 563551.476,EL237.242,--SECT45

CF,EL237.242,GD0.000

DE,PN203,N 1078686.400,E 563551.800,EL0.000,--SECT45

SD,ND0.793,ED0.324,LD-237.242

SK,OP71,FP4556,AR268.07527,ZE89.55205,SD55.048,--SECT45

SP,PN4557,N 1078660.599,E 563537.264,EL237.249,--XS45 LELB

SK,OP71,FP4557,AR252.37504,ZE89.56225,SD77.767,--XS45 LELB

SP,PN4558,N 1078606.029,E 563508.629,EL236.168,--XS45 LELB

SK,OP71,FP4558,AR238.14030,ZE90.25409,SD133.850,--XS45 LELB

SP,PN4559,N 1078480.361,E 563428.591,EL237.250,--

SK,OP71,FP4559,AR231.07579,ZE89.59001,SD280.904,--

SP,PN4560,N 1078480.241,E 563428.686,EL237.201,--XS45 LELB LAWA

SK,OP71,FP4560,AR231.06083,ZE89.59362,SD280.939,--XS45 LELB LAWA

LS,HI4.8100,HR9.4300

SP,PN4561,N 1078474.433,E 563419.740,EL233.513,--XS45 LAWE

SK,OP71,FP4561,AR231.45254,ZE89.54238,SD291.093,--XS45 LAWE

LS,HI4.8100,HR7.9000

SP,PN4562,N 1078463.829,E 563410.103,EL232.360,--XS45 RB  
SK,OP71,FP4562,AR231.53135,ZE90.24522,SD305.415,--XS45 RB

LS,HI4.8100,HR9.4300

SP,PN4563,N 1078453.275,E 563397.789,EL233.671,--XS45 LAWE  
SK,OP71,FP4563,AR232.22413,ZE89.53149,SD321.403,--XS45 LAWE

LS,HI4.8100,HR5.3000

SP,PN4564,N 1078427.036,E 563390.010,EL237.303,--XS45 LELB  
SK,OP71,FP4564,AR230.33599,ZE89.58405,SD346.658,--XS45 LELB

SP,PN4565,N 1078402.595,E 563382.270,EL246.893,--XS45 LELB  
SK,OP71,FP4565,AR229.09498,ZE88.29519,SD370.876,--XS45 LELB

LS,HI4.8100,HR6.3000

SP,PN4566,N 1078396.186,E 563379.142,EL244.669,--XS45 LELB  
SK,OP71,FP4566,AR228.57345,ZE88.42402,SD377.850,--XS45 LELB

LS,HI4.8100,HR5.6000

SP,PN4567,N 1078370.145,E 563366.242,EL243.494,--XS45 LELB LAWA  
SK,OP71,FP4567,AR228.13260,ZE89.03583,SD406.433,--XS45 LELB LAWA

LS,HI4.8100,HR5.3000

SP,PN4568,N 1078739.672,E 563637.361,EL237.543,--XS45  
SK,OP71,FP4568,AR50.55509,ZE89.35093,SD52.037,--XS45

SP,PN4569,N 1078792.571,E 563732.342,EL235.493,--XS45 LAWA  
SK,OP71,FP4569,AR66.00027,ZE90.36243,SD158.140,--XS45 LAWA

LS,HI4.8100,HR9.4300

SP,PN4570,N 1078829.220,E 563792.631,EL235.574,--XS45  
SK,OP71,FP4570,AR67.31587,ZE89.21510,SD228.523,--XS45

LS,HI4.8100,HR6.3000

SP,PN4571,N 1078829.405,E 563792.394,EL235.729,--XS45  
SK,OP71,FP4571,AR67.27397,ZE90.06370,SD228.421,--XS45

LS,HI4.8100,HR5.3000

SP,PN4572,N 1078844.260,E 563824.019,EL236.670,--XS45 LELB  
SK,OP71,FP4572,AR68.44113,ZE90.06309,SD262.936,--XS45 LELB

SP,PN4573,N 1078855.475,E 563841.123,EL236.661,--XS45 LELB

SK,OP71,FP4573,AR68.45228,ZE90.06094,SD283.391,--XS45 LELB  
LS,HI4.8100,HR9.4300

SP,PN4574,N 1078856.737,E 563843.578,EL233.068,--XS45 LAWE

SK,OP71,FP4574,AR68.49015,ZE89.59391,SD286.134,--XS45 LAWE

SP,PN4575,N 1078862.351,E 563854.348,EL232.066,--XS45 RB

SK,OP71,FP4575,AR69.03273,ZE90.11130,SD298.220,--XS45 RB

SP,PN4576,N 1078874.582,E 563871.329,EL231.998,--XS45 RB

SK,OP71,FP4576,AR68.53236,ZE90.11130,SD319.130,--XS45 RB

SP,PN4577,N 1078885.676,E 563888.171,EL231.934,--XS45 RB

SK,OP71,FP4577,AR68.53236,ZE90.11120,SD339.299,--XS45 RB

LS,HI4.8100,HR4.7400

SS,OP71,FP4578,AR359.59546,ZE89.55022,SD474.037,--GPS59

## ISO Rounds Report

<b>Project</b>	MJ783_05192014	<b>Date</b>	19.05.2014
<b>Instrument</b>	Trimble S6 3 DR Plus	<b>Distance unit</b>	Survey Feet
<b>Serial Number</b>	93110623	<b>Angle unit</b>	DMS Degrees
<b>Firmware Version</b>	R12.5.35	<b>Temperature unit</b>	Fahrenheit
		<b>Pressure unit</b>	hPa
<b>Trimble General Survey</b>	v1.80		

## Project Properties

### Coordinate System

<b>System Name</b>	US State Plane 1983
<b>Zone</b>	New York East 3101
<b>Datum</b>	NAD 1983 (Conus)

### Projection

<b>Projection</b>	TransverseMercator
<b>Latitude Origin</b>	38°50'00.00000"N
<b>Longitude Origin</b>	74°30'00.00000"W
<b>False Easting</b>	492125.000
<b>False Northing</b>	0.000
<b>Scale</b>	0.999900

### Datum Transformation

<b>Type</b>	Three Parameter
<b>Earth radius</b>	20925604.474
<b>Flattening</b>	298.257223
<b>X translation</b>	0.000
<b>Y translation</b>	0.000
<b>Z translation</b>	0.000
<b>Scale</b>	? ppm

### Corrections

<b>Distances as</b>	Ground
<b>South azimuth</b>	No
<b>Grid Orientation</b>	Increasing NE
<b>Magnetic Declination</b>	0°00'00"
<b>Neighborhood Adjustment</b>	Off

## Instrument Station

**Stationing Type****Station Setup**

**Station** 55  
**Code** GPS  
**Instrument Height** 4.910

**Atmospheric Settings**

**Temperature** 75.0°F  
**Pressure** 1011.2hPa  
**Refraction Const.** 0.142

**Horizontal Circle Mode** Zero

**Standard Deviations**

**Hz** 0°00'03"dms  
**V** 0°00'03"dms  
**EDM constant** 2mm  
**EDM ppm** 2ppm  
**Centering Error** 0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
54	1076955.8070	566136.4200	233.8790

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
54	GPS	828.2435	0°00'00"	89°49'06"	4.8100	0

**Result**

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1076985.0560	?sft	<b>Orientation</b>	-92°01'26" ?
<b>Easting</b>	566964.0670	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	231.1120	?sft		

**Instrument Station****Stationing Type****Station Setup**

**Station** 54  
**Code** GPS  
**Instrument Height** 5.140

**Atmospheric Settings**

**Temperature** 75.0°F  
**Pressure** 1010.2hPa  
**Refraction Const.** 0.142

**Horizontal Circle Mode** Zero

**Standard Deviations**

**Hz** 0°00'03"dms  
**V** 0°00'03"dms  
**EDM constant** 2mm  
**EDM ppm** 2ppm

Centering Error 0mm

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### Backsight Points

Point Name	Northing	Easting	Elevation
55	1076985.0560	566964.0670	231.1120

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### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
55	GPS	828.2377	0°00'00"	90°13'45"	4.5900	0

### Result

	Coordinates	Std.Dev.		Std.Dev.
Northing	1076955.8070	?sft	Orientation	87°58'34" ?
Easting	566136.4200	?sft	Scale	1.000000 ?
Elevation	233.8790	?sft		

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### Instrument Station

#### Stationing Type

#### Station Setup

Station 58  
Code GPS  
Instrument Height 4.790

#### Atmospheric Settings

Temperature 75.0°F  
Pressure 1009.8hPa  
Refraction Const. 0.142

Horizontal Circle Mode Zero

#### Standard Deviations

Hz 0°00'03"dms  
V 0°00'03"dms  
EDM constant 2mm  
EDM ppm 2ppm  
Centering Error 0mm

---

### Backsight Points

Point Name	Northing	Easting	Elevation
56	1078547.2578	565577.9090	230.2954

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### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
56	GPS	1412.7349	0°00'00"	90°07'53"	4.5300	0

56	GPS	1412.7274	0°00'00"	90°07'56"	4.5300	0
56	GPS	1412.6301	0°00'00"	90°08'09"	4.5300	-30
56	GPS	1412.6294	0°00'00"	90°08'07"	4.5300	-30
56	GPS	1412.6280	0°00'00"	90°08'06"	4.5300	-30
56	GPS	1412.6285	180°00'08"	269°51'59"	4.5300	-30
56	GPS	1412.6287	180°00'10"	269°51'59"	4.5300	-30
56	GPS	1412.6293	180°00'09"	269°51'59"	4.5300	-30
56	GPS	1412.6279	0°00'00"	90°07'56"	4.5300	-30
56	GPS	1412.6313	0°00'00"	90°08'03"	4.5300	-30
56	GPS	1412.6283	0°00'00"	90°08'02"	4.5300	-30
56	GPS	1412.6279	180°00'08"	269°52'08"	4.5300	-30
56	GPS	1412.6262	180°00'10"	269°52'02"	4.5300	-30
56	GPS	1412.6273	180°00'10"	269°52'03"	4.5300	-30

**Result**

	<b>Coordinates</b>	<b>Std.Dev.</b>		<b>Std.Dev.</b>
<b>Northing</b>	1079093.4897	?sft	<b>Orientation</b>	112°44'56" ?
<b>Easting</b>	564275.2156	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	233.2014	?sft		

**Multiple Rounds**

**1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R <sup>2</sup>
		dms	dms	dms	dms	dms	sec	sec	sec <sup>2</sup>
58	56	0°00'00"	180°00'08"	0°00'04"	0°00'00"	0°00'00"	00.0	00.6	00.353
	66	72°51'49"	252°51'52"	72°51'50"	72°51'46"	72°51'45"	-01.2	-00.6	00.353
							-00.6		
	56	0°00'00"	180°00'08"	0°00'04"	0°00'00"		00.0	-00.6	00.353
	66	72°51'45"	252°51'50"	72°51'47"	72°51'44"		01.2	00.6	00.353
							00.6		
Sum								00.0	01.410

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 1

**Std.Dev. of a direction measured in both faces** 01.2 sec  
**Std.Dev. of a direction averaged over 2 sets** 00.8 sec

**2. Vertical Angles**



1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
58	56	90°08'09"	269°51'59"	04.0	90°08'05"	90°07'59"	-05.2	26.539
	66	89°46'52"	270°13'11"	01.6	89°46'50"	89°46'50"	-00.5	00.205
				05.6				
	56	90°07'56"	269°52'08"	02.0	90°07'54"		05.2	26.539
	66	89°46'51"	270°13'12"	01.6	89°46'49"		00.5	00.205
				03.6				
Sum							00.0	53.488

Mean Index Correction 02.3 sec

Number of sets 2

Number of targets 2

Number of degrees of freedom 2

Std.Dev. of a vertical angle measured in both faces 05.2 sec

Std.Dev. of a vertical angle averaged over 2 sets 03.7 sec

3. Distances

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
58	56	1412.6301	1412.6285	1412.6286	-1.5	0.1	2.26	1.0	0.7
	66	246.2642	246.2656	246.2648	0.5	-0.9	1.05	0.6	0.4
	56	1412.6279	1412.6279		0.7	0.7	0.97		
	66	246.2647	246.2645		0.1	0.3	0.08		
Sum					-0.23	0.23	4.37		

Number of sets 2

Number of targets 2

Number of degrees of freedom 3

Std. Dev. of a distance measured in 1 face - see column 9 above

Std. Dev. of the mean of all sets - see column 10 above

Std. Dev. for all distances (1 obs only) 0.9 ft/1000

Std. Dev. for all distances (mean) 0.6 ft/1000

## 4. Averaged Data Sets

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [° F]	Press [hPa]
58	GPS				4.790			
56	GPS	0°00'00"	90°07'59"	1412.6286	4.530	-30.0	75.0	1009.8
66	CB	72°51'45"	89°46'50"	246.2648	4.880	-30.0	75.0	1009.8

Point Name	Code	Az	VA	SD	ih/th
58	GPS				4.790
56	GPS	112°44'56"	90°07'59"	1412.6286	4.530
66	CB	185°36'40"	89°46'50"	246.2648	4.880

Point Name	Code	Az	HD	VD
58	GPS			
56	GPS	112°44'56"	1412.625	-3.023
66	CB	185°36'40"	246.263	0.853

Point Name	Code	Northing	Easting	Elevation
58	GPS	1079093.4897	564275.2156	233.2014
56	GPS	1078547.2906	565577.8192	230.2073
66	CB	1078848.4307	564251.1387	234.0572

## Instrument Station

## Stationing Type

## Station Setup

Station 66  
Code CB  
Instrument Height 5.290  
Horizontal Circle Mode

## Atmospheric Settings

Temperature 75.0°F  
Pressure 1007.0hPa  
Refraction Const. 0.142

Zero

## Standard Deviations

H<sub>z</sub> 0°00'03"dms  
V 0°00'03"dms  
EDM constant 2mm  
EDM ppm 2ppm  
Centering Error 0mm

## Backsight Points

Point Name	Northing	Easting	Elevation
58	1079093.4897	564275.2156	233.2014

## Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
58	GPS	246.3606	0°00'00"	90°21'53"	4.4800	0

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1078848.4307	?sft	Orientation	5°36'41" ?
Easting	564251.1387	?sft	Scale	1.000000 ?
Elevation	234.0572	?sft		

**Instrument Station****Stationing Type****Station Setup**

Station	56
Code	GPS
Instrument Height	5.010

**Atmospheric Settings**

Temperature	75.0°F
Pressure	1005.8hPa
Refraction Const.	0.142

**Horizontal Circle Mode**

Zero

**Standard Deviations**

Hz	0°00'03"dms
V	0°00'03"dms
EDM constant	2mm
EDM ppm	2ppm
Centering Error	0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
57	1078231.8410	566181.6040	233.3928

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
57	GPS	681.1715	0°00'00"	89°45'16"	4.8700	0
57	GPS	681.1763	0°00'00"	89°45'18"	4.8700	0

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1078547.2578	?sft	Orientation	117°35'10" ?
Easting	565577.9090	?sft	Scale	1.000000 ?
Elevation	230.2954	?sft		

**Instrument Station**

**Stationing Type****Station Setup**

**Station** 97  
**Code** CB  
**Instrument Height** 5.120

**Atmospheric Settings**

**Temperature** 75.0°F  
**Pressure** 1006.1hPa  
**Refraction Const.** 0.142

**Horizontal Circle Mode** Zero

**Standard Deviations**

**Hz** 0°00'03"dms  
**V** 0°00'03"dms  
**EDM constant** 2mm  
**EDM ppm** 2ppm  
**Centering Error** 0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
57	1078231.8410	566181.6040	233.3928

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
57	GPS	288.9866	180°00'00"	270°42'24"	4.8500	0

**Result**

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1078099.4296	?sft	<b>Orientation</b>	-62°43'19" ?
<b>Easting</b>	566438.3891	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	229.4619	?sft		

**Instrument Station****Stationing Type****Station Setup**

**Station** 97  
**Code** CB  
**Instrument Height** 5.120

**Atmospheric Settings**

**Temperature** 75.0°F  
**Pressure** 1006.1hPa  
**Refraction Const.** 0.142

**Horizontal Circle Mode** Zero

**Standard Deviations**

**Hz** 0°00'03"dms  
**V** 0°00'03"dms  
**EDM constant** 2mm  
**EDM ppm** 2ppm

Centering Error 0mm

### Backsight Points

Point Name	Northing	Easting	Elevation
57	1078231.8410	566181.6040	233.3928

### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
57	GPS	288.9845	180°00'00"	270°42'26"	4.8500	0

### Result

	Coordinates	Std.Dev.		Std.Dev.
Northing	1078099.4296	?sft	Orientation	-62°43'19" ?
Easting	566438.3891	?sft	Scale	1.000000 ?
Elevation	229.4619	?sft		

## Instrument Station

### Stationing Type

### Station Setup

Station 97  
Code CB  
Instrument Height 5.120

### Atmospheric Settings

Temperature 75.0°F  
Pressure 1006.1hPa  
Refraction Const. 0.142

Horizontal Circle Mode Zero

### Standard Deviations

Hz 0°00'03"dms  
V 0°00'03"dms  
EDM constant 2mm  
EDM ppm 2ppm  
Centering Error 0mm

### Backsight Points

Point Name	Northing	Easting	Elevation
57	1078231.8410	566181.6040	233.3928

### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
57	GPS	288.9828	0°00'00"	89°17'28"	4.8500	0

**Result**

	<b>Coordinates</b>	<b>Std.Dev.</b>		<b>Std.Dev.</b>
<b>Northing</b>	1078099.4296	?sft	<b>Orientation</b>	-62°43'19" ?
<b>Easting</b>	566438.3891	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	229.4619	?sft		

**Instrument Station**

<b>Stationing Type</b>		<b>Station Setup</b>	
<b>Station</b>	97	<b>Atmospheric Settings</b>	
<b>Code</b>	CB	<b>Temperature</b>	75.0°F
<b>Instrument Height</b>	5.120	<b>Pressure</b>	1003.5hPa
<b>Horizontal Circle Mode</b>		<b>Refraction Const.</b>	0.142
<b>Standard Deviations</b>			
<b>Hz</b>			Zero
<b>V</b>			
<b>EDM constant</b>			2mm
<b>EDM ppm</b>			2ppm
<b>Centering Error</b>			0mm

**Backsight Points**

<b>Point Name</b>	<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
57	1078231.8410	566181.6040	233.3928

**Measurements**

<b>Point Name</b>	<b>Code</b>	<b>SD [sft]</b>	<b>HA [dms]</b>	<b>VA [dms]</b>	<b>th [sft]</b>	<b>PC [mm]</b>
57	GPS	288.9851	0°00'00"	89°17'31"	4.8500	0
57	GPS	288.8853	0°00'00"	89°17'30"	5.3000	-30
57	GPS	288.8862	0°00'00"	89°17'31"	5.3000	-30
57	GPS	288.8857	0°00'00"	89°17'30"	5.3000	-30
57	GPS	288.8854	180°00'09"	270°42'32"	5.3000	-30
57	GPS	288.8840	180°00'08"	270°42'33"	5.3000	-30
57	GPS	288.8838	180°00'09"	270°42'32"	5.3000	-30
57	GPS	288.8858	0°00'00"	89°17'30"	5.3000	-30
57	GPS	288.8835	0°00'00"	89°17'31"	5.3000	-30
57	GPS	288.8884	0°00'00"	89°17'31"	5.3000	-30
57	GPS	288.8853	180°00'06"	270°42'32"	5.3000	-30
57	GPS	288.8891	180°00'07"	270°42'32"	5.3000	-30
57	GPS	288.8856	180°00'08"	270°42'33"	5.3000	-30

**Result**

	<b>Coordinates</b>	<b>Std.Dev.</b>		<b>Std.Dev.</b>
<b>Northing</b>	1078099.4296	?sft	<b>Orientation</b>	-62°43'19" ?
<b>Easting</b>	566438.3891	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	229.4619	?sft		

**Multiple Rounds**

**1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R <sup>2</sup>
		dms	dms	dms	dms	dms	sec	sec	sec <sup>2</sup>
97	57	0°00'00"	180°00'09"	0°00'04"	0°00'00"	0°00'00"	00.0	-00.3	00.075
	67	281°41'01"	101°41'01"	281°41'01"	281°40'57"	281°40'58"	00.5	00.3	00.075
							00.3		
	57	0°00'00"	180°00'06"	0°00'03"	0°00'00"		00.0	00.3	00.075
	67	281°41'01"	101°41'01"	281°41'01"	281°40'58"		-00.5	-00.3	00.075
							-00.3		
Sum								00.0	00.299

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 1

**Std.Dev. of a direction measured in both faces** 00.5 sec  
**Std.Dev. of a direction averaged over 2 sets** 00.4 sec

**2. Vertical Angles**

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
97	57	89°17'30"	270°42'32"	01.1	89°17'29"	89°17'29"	00.3	00.070
	67	90°05'22"	269°54'38"	-00.1	90°05'22"	90°05'22"	00.0	00.001
				01.0				
	57	89°17'30"	270°42'32"	00.9	89°17'29"		-00.3	00.070
	67	90°05'22"	269°54'38"	-00.2	90°05'22"		00.0	00.001
				00.7				
Sum							00.0	00.142

**Mean Index Correction** 00.4 sec

**Number of sets** 2

**Number of targets** 2

**Number of degrees of freedom** 2

**Std.Dev. of a vertical angle measured in both faces** 00.3 sec

**Std.Dev. of a vertical angle averaged over 2 sets** 00.2 sec

**3. Distances**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
97	57	288.8853	288.8854	288.8854	0.1	0.1	0.03	0.2	0.2
	67	565.0592	565.0566	565.0576	-1.6	1.0	3.64	1.7	1.2
	57	288.8858	288.8853		-0.3	0.1	0.13		
	67	565.0588	565.0557		-1.2	1.9	4.95		
Sum					-3.05	3.05	8.75		

**Number of sets** 2

**Number of targets** 2

**Number of degrees of freedom** 3

**Std. Dev. of a distance measured in 1 face - see column 9 above**

**Std. Dev. of the mean of all sets - see column 10 above**

**Std. Dev. for all distances (1 obs only)** 1.2 ft/1000

**Std. Dev. for all distances (mean)** 0.9 ft/1000

**4. Averaged Data Sets**

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [° F]	Press [hPa]
97	CB				5.120			
57	GPS	0°00'00"	89°17'29"	288.8854	5.300	-30.0	75.0	1003.5
67	CB	281°40'58"	90°05'22"	565.0576	5.270	-30.0	75.0	1003.5

Point Name	Code	Az	VA	SD	ih/th
97	CB				5.120
57	GPS	297°16'41"	89°17'29"	288.8854	5.300
67	CB	218°57'38"	90°05'22"	565.0576	5.270



Point Name	Code	Az	HD	VD
97	CB			
57	GPS	297°16'41"	288.863	3.393
67	CB	218°57'38"	565.057	-1.032

Point Name	Code	Northing	Easting	Elevation
97	CB	1078099.4296	566438.3891	229.4619
57	GPS	1078231.8049	566181.6747	232.8562
67	CB	1077660.0973	566083.1251	228.4366

## Instrument Station

### Stationing Type

### Station Setup

Station 61  
Code GPS  
Instrument Height 4.810

### Atmospheric Settings

Temperature 75.0°F  
Pressure 1000.3hPa  
Refraction Const. 0.142

Horizontal Circle Mode Zero

### Standard Deviations

Hz 0°00'03"dms  
V 0°00'03"dms  
EDM constant 2mm  
EDM ppm 2ppm  
Centering Error 0mm

### Backsight Points

Point Name	Northing	Easting	Elevation
95	1077648.0070	563130.6078	240.6106

### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
95	CB	913.0521	0°00'00"	89°47'28"	5.1700	0

### Result

	Coordinates	Std.Dev.		Std.Dev.
Northing	1077296.5209	?sft	Orientation	-67°21'23" ?
Easting	563973.1868	?sft	Scale	1.000000 ?
Elevation	237.6460	?sft		

## Instrument Station

Stationing Type		Station Setup	
<b>Station</b>	95	<b>Atmospheric Settings</b>	
<b>Code</b>	CB	<b>Temperature</b>	75.0°F
<b>Instrument Height</b>	5.200	<b>Pressure</b>	998.3hPa
<b>Horizontal Circle Mode</b>		<b>Refraction Const.</b>	0.142
<b>Standard Deviations</b>			
<b>Hz</b>			Zero
<b>V</b>			0°00'03"dms
<b>EDM constant</b>			2mm
<b>EDM ppm</b>			2ppm
<b>Centering Error</b>			0mm

### Backsight Points

Point Name	Northing	Easting	Elevation
62	1077412.3638	562398.8475	241.1713

### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
62	GPS	768.7992	0°00'00"	89°59'10"	4.9400	0

### Result

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1077648.0070	?sft	<b>Orientation</b>	-107°50'59" ?
<b>Easting</b>	563130.6078	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	240.6106	?sft		

## Instrument Station

Stationing Type		Station Setup	
<b>Station</b>	62	<b>Atmospheric Settings</b>	
<b>Code</b>	GPS	<b>Temperature</b>	75.0°F
<b>Instrument Height</b>	5.220	<b>Pressure</b>	997.7hPa
<b>Horizontal Circle Mode</b>		<b>Refraction Const.</b>	0.142
<b>Standard Deviations</b>			
<b>Hz</b>			Zero
<b>V</b>			0°00'03"dms
<b>EDM constant</b>			2mm
<b>EDM ppm</b>			2ppm

**Centering Error**

0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
95	1077648.0070	563130.6078	240.6106

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
95	CB	768.7912	0°00'00"	90°03'33"	4.9300	0
95	CB	768.7933	0°00'00"	90°03'36"	4.9300	0
95	CB	768.7931	0°00'00"	90°03'33"	4.9300	0
95	CB	768.7928	180°00'14"	269°56'43"	4.9300	0
95	CB	768.7938	180°00'14"	269°56'42"	4.9300	0
95	CB	768.7942	180°00'12"	269°56'40"	4.9300	0
95	CB	768.7953	0°00'00"	90°03'38"	4.9300	0
95	CB	768.7946	0°00'00"	90°03'34"	4.9300	0
95	CB	768.7936	0°00'00"	90°03'37"	4.9300	0
95	CB	768.7906	180°00'12"	269°56'39"	4.9300	0
95	CB	768.7854	180°00'10"	269°56'40"	4.9300	0
95	CB	768.7953	180°00'08"	269°56'38"	4.9300	0

**Result**

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1077412.3638	?sft	<b>Orientation</b>	72°09'01" ?
<b>Easting</b>	562398.8475	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	241.1713	?sft		

**Multiple Rounds**

**1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R <sup>2</sup>
		dms	dms	dms	dms	dms	sec	sec	sec <sup>2</sup>
62	95	0°00'00"	180°00'14"	0°00'07"	0°00'00"	0°00'00"	00.0	00.3	00.083
	63	181°11'41"	1°11'47"	181°11'44"	181°11'37"	181°11'37"	-00.6	-00.3	00.083
							-00.3		
	95	0°00'00"	180°00'12"	0°00'06"	0°00'00"		00.0	-00.3	00.083
	63	181°11'39"	1°11'45"	181°11'42"	181°11'36"		00.6	00.3	00.083
							00.3		

Sum								00.0	00.334
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**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 1

**Std.Dev. of a direction measured in both faces** 00.6 sec  
**Std.Dev. of a direction averaged over 2 sets** 00.4 sec

**2. Vertical Angles**

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
62	95	90°03'33"	269°56'43"	08.0	90°03'25"	90°03'27"	02.2	04.667
	63	89°38'35"	270°21'41"	08.1	89°38'27"	89°38'27"	00.3	00.071
				16.1				
	95	90°03'38"	269°56'39"	08.4	90°03'29"		-02.2	04.667
	63	89°38'34"	270°21'39"	06.6	89°38'27"		-00.3	00.071
				15.0				
Sum							00.0	09.476

**Mean Index Correction** 07.8 sec

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 2

**Std.Dev. of a vertical angle measured in both faces** 02.2 sec  
**Std.Dev. of a vertical angle averaged over 2 sets** 01.5 sec

**3. Distances**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
62	95	768.7912	768.7928	768.7925	1.3	-0.3	1.67	2.1	1.5
	63	492.6553	492.6519	492.6539	-1.4	2.0	5.94	1.5	1.1
	95	768.7953	768.7906		-2.9	1.9	11.80		
	63	492.6548	492.6538		-0.8	0.2	0.71		
Sum					-3.79	3.79	20.12		

<b>Number of sets</b>	2
<b>Number of targets</b>	2
<b>Number of degrees of freedom</b>	3

**Std. Dev. of a distance measured in 1 face - see column 9 above**

**Std. Dev. of the mean of all sets - see column 10 above**

<b>Std. Dev. for all distances (1 obs only)</b>	1.8 ft/1000
<b>Std. Dev. for all distances (mean)</b>	1.3 ft/1000

#### 4. Averaged Data Sets

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [ ° F]	Press [hPa]
62	GPS				5.220			
95	CB	0°00'00"	90°03'27"	768.7925	4.930	-0.3	75.0	997.7
63	CB	181°11'37"	89°38'27"	492.6539	4.760	-0.3	75.0	997.7

Point Name	Code	Az	VA	SD	ih/th
62	GPS				5.220
95	CB	72°09'01"	90°03'27"	768.7925	4.930
63	CB	253°20'38"	89°38'27"	492.6539	4.760

Point Name	Code	Az	HD	VD
62	GPS			
95	CB	72°09'01"	768.792	-0.482
63	CB	253°20'38"	492.644	3.548

Point Name	Code	Northing	Easting	Elevation
62	GPS	1077412.3638	562398.8475	241.1713
95	CB	1077647.9941	563130.5584	240.7006
63	CB	1077271.1702	561926.9224	244.7234

#### Instrument Station

Stationing Type		Station Setup	
<b>Station</b>	63	<b>Atmospheric Settings</b>	
<b>Code</b>	CB	<b>Temperature</b>	75.0°F
<b>Instrument Height</b>	5.070	<b>Pressure</b>	998.5hPa
<b>Horizontal Circle Mode</b>		<b>Refraction Const.</b>	0.142
<b>Standard Deviations</b>			
<b>Hz</b>			
<b>V</b>			

EDM constant	2mm
EDM ppm	2ppm
Centering Error	0mm

---

**Backsight Points**

Point Name	Northing	Easting	Elevation
62	1077412.3638	562398.8475	241.1713

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**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
62	GPS	492.6614	0°00'00"	90°25'52"	4.9100	0

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1077271.1702	?sft	Orientation	73°20'37" ?
Easting	561926.9224	?sft	Scale	1.000000 ?
Elevation	244.7234	?sft		

---

**Instrument Station****Stationing Type****Station Setup**

Station	59
Code	GPS
Instrument Height	5.040

**Atmospheric Settings**

Temperature	75.0°F
Pressure	1003.0hPa
Refraction Const.	0.142

Horizontal Circle Mode	Zero
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**Standard Deviations**

Hz	0°00'03"dms
V	0°00'03"dms
EDM constant	2mm
EDM ppm	2ppm
Centering Error	0mm

---

**Backsight Points**

Point Name	Northing	Easting	Elevation
60	1079065.9270	562928.7060	241.6680

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**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
60	GPS	583.5167	0°00'00"	89°43'16"	4.6200	0
60	GPS	583.4089	0°00'00"	89°43'19"	5.3000	-30
60	GPS	583.4092	0°00'00"	89°43'19"	5.3000	-30
60	GPS	583.4093	0°00'00"	89°43'20"	5.3000	-30
60	GPS	583.4073	180°00'04"	270°16'45"	5.3000	-30
60	GPS	583.4117	180°00'04"	270°16'44"	5.3000	-30
60	GPS	583.4100	180°00'06"	270°16'43"	5.3000	-30
60	GPS	583.4079	0°00'00"	89°43'18"	5.3000	-30
60	GPS	583.4109	0°00'00"	89°43'17"	5.3000	-30
60	GPS	583.4078	0°00'00"	89°43'17"	5.3000	-30
60	GPS	583.4103	180°00'07"	270°16'46"	5.3000	-30
60	GPS	583.4093	180°00'07"	270°16'45"	5.3000	-30
60	GPS	583.4094	180°00'06"	270°16'46"	5.3000	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1079162.3130	?sft	Orientation	-99°30'31" ?
Easting	563504.1500	?sft	Scale	1.000000 ?
Elevation	238.4170	?sft		

**Multiple Rounds**

**1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R²
		dms	dms	dms	dms	dms	sec	sec	sec²
59	60	0°00'00"	180°00'04"	0°00'02"	0°00'00"	0°00'00"	00.0	-00.3	00.067
	70	145°03'37"	325°03'46"	145°03'42"	145°03'40"	145°03'40"	00.5	00.3	00.067
							00.3		
	60	0°00'00"	180°00'07"	0°00'03"	0°00'00"		00.0	00.3	00.067
	70	145°03'41"	325°03'47"	145°03'44"	145°03'41"		-00.5	-00.3	00.067
							-00.3		
Sum								00.0	00.266

Number of sets 2  
 Number of targets 2  
 Number of degrees of freedom 1

Std.Dev. of a direction measured in both faces 00.5 sec  
 Std.Dev. of a direction averaged over 2 sets 00.4 sec

**2. Vertical Angles**

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
59	60	89°43'19"	270°16'45"	01.7	89°43'17"	89°43'17"	-00.4	00.139
	70	89°54'36"	270°05'25"	00.7	89°54'36"	89°54'35"	-00.3	00.084
				02.3				
	60	89°43'18"	270°16'46"	01.8	89°43'16"		00.4	00.139
	70	89°54'35"	270°05'25"	-00.4	89°54'35"		00.3	00.084
				01.4				
Sum							00.0	00.445

**Mean Index Correction** 00.9 sec

**Number of sets** 2

**Number of targets** 2

**Number of degrees of freedom** 2

**Std.Dev. of a vertical angle measured in both faces** 00.5 sec

**Std.Dev. of a vertical angle averaged over 2 sets** 00.3 sec

**3. Distances**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
59	60	583.4089	583.4073	583.4086	-0.3	1.3	1.92	1.3	0.9
	70	158.7089	158.7105	158.7087	-0.1	-1.8	3.22	1.4	1.0
	60	583.4079	583.4103		0.7	-1.7	3.39		
	70	158.7073	158.7083		1.5	0.5	2.36		
Sum					1.67	-1.67	10.88		

**Number of sets** 2

**Number of targets** 2

**Number of degrees of freedom** 3

**Std. Dev. of a distance measured in 1 face - see column 9 above**

**Std. Dev. of the mean of all sets - see column 10 above**



Std. Dev. for all distances (1 obs only) 1.3 ft/1000  
 Std. Dev. for all distances (mean) 1.0 ft/1000

#### 4. Averaged Data Sets

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [° F]	Press [hPa]
59	GPS				5.040			
60	GPS	0°00'00"	89°43'17"	583.4086	5.300	-30.0	75.0	1003.0
70	CB	145°03'40"	89°54'35"	158.7087	4.850	-30.0	75.0	1003.0

Point Name	Code	Az	VA	SD	ih/th
59	GPS				5.040
60	GPS	260°29'29"	89°43'17"	583.4086	5.300
70	CB	45°33'09"	89°54'35"	158.7087	4.850

Point Name	Code	Az	HD	VD
59	GPS			
60	GPS	260°29'29"	583.402	2.578
70	CB	45°33'09"	158.709	0.440

Point Name	Code	Northing	Easting	Elevation
59	GPS	1079162.3130	563504.1500	238.4170
60	GPS	1079065.9311	562928.7274	241.6862
70	CB	1079273.4384	563617.4394	238.8572

## Instrument Station

Stationing Type		Station Setup	
Station	70	<b>Atmospheric Settings</b>	
Code	CB	Temperature	75.0°F
Instrument Height	5.160	Pressure	1002.5hPa
Horizontal Circle Mode		Refraction Const.	0.142
Standard Deviations			
Hz			Zero
V			
EDM constant			
EDM ppm			
Centering Error			

## Backsight Points

Point Name	Northing	Easting	Elevation
59	1079162.3130	563504.1500	238.4170

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
59	GPS	158.8045	0°00'00"	90°19'16"	4.7300	0

**Result**

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1079273.4384	?sft	<b>Orientation</b>	-134°26'51" ?
<b>Easting</b>	563617.4394	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	238.8572	?sft		

**Instrument Station****Stationing Type****Station Setup**

<b>Station</b>	59
<b>Code</b>	GPS
<b>Instrument Height</b>	5.040

**Atmospheric Settings**

<b>Temperature</b>	75.0°F
<b>Pressure</b>	1002.5hPa
<b>Refraction Const.</b>	0.142

**Horizontal Circle Mode**

Zero

**Standard Deviations**

<b>Hz</b>	0°00'03"dms
<b>V</b>	0°00'03"dms
<b>EDM constant</b>	2mm
<b>EDM ppm</b>	2ppm
<b>Centering Error</b>	0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
60	1079065.9270	562928.7060	241.6680

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
60	GPS	583.5100	0°00'00"	89°43'15"	4.6200	0
60	GPS	583.5058	0°00'00"	89°43'18"	4.6200	0
60	GPS	583.5063	0°00'00"	89°43'19"	4.6200	0
60	GPS	583.5065	180°00'06"	270°16'45"	4.6200	0
60	GPS	583.5040	180°00'05"	270°16'47"	4.6200	0
60	GPS	583.5077	180°00'07"	270°16'44"	4.6200	0
60	GPS	583.5073	0°00'00"	89°43'18"	4.6200	0
60	GPS	583.5051	0°00'00"	89°43'18"	4.6200	0
60	GPS	583.5045	0°00'00"	89°43'18"	4.6200	0

60	GPS	583.5068	180°00'06"	270°16'46"	4.6200	0
60	GPS	583.5068	180°00'07"	270°16'46"	4.6200	0
60	GPS	583.5067	180°00'06"	270°16'47"	4.6200	0

**Result**

	<b>Coordinates</b>	<b>Std.Dev.</b>		<b>Orientation</b>	-99°30'31"	?
<b>Northing</b>	1079162.3130	?sft		<b>Scale</b>	1.000000	?
<b>Easting</b>	563504.1500	?sft				
<b>Elevation</b>	238.4170	?sft				

**Multiple Rounds**

**1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R <sup>2</sup>
		dms	dms	dms	dms	dms	sec	sec	sec <sup>2</sup>
59	60	0°00'00"	180°00'06"	0°00'03"	0°00'00"	0°00'00"	00.0	00.2	00.045
	71	267°14'42"	87°14'48"	267°14'45"	267°14'42"	267°14'41"	-00.4	-00.2	00.045
							-00.2		
	60	0°00'00"	180°00'06"	0°00'03"	0°00'00"		00.0	-00.2	00.045
	71	267°14'40"	87°14'47"	267°14'44"	267°14'41"		00.4	00.2	00.045
							00.2		
Sum								00.0	00.182

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 1

**Std.Dev. of a direction measured in both faces** 00.4 sec  
**Std.Dev. of a direction averaged over 2 sets** 00.3 sec

**2. Vertical Angles**

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
59	60	89°43'15"	270°16'45"	-00.1	89°43'15"	89°43'15"	00.3	00.096
	71	90°08'21"	269°51'44"	02.3	90°08'18"	90°08'18"	-00.8	00.665
				02.2				

	60	89°43'18"	270°16'46"	02.1	89°43'16"		-00.3	00.096
	71	90°08'19"	269°51'45"	02.2	90°08'17"		00.8	00.665
				04.3				
Sum							00.0	01.523

**Mean Index Correction** 01.6 sec

**Number of sets** 2

**Number of targets** 2

**Number of degrees of freedom** 2

**Std.Dev. of a vertical angle measured in both faces** 00.9 sec

**Std.Dev. of a vertical angle averaged over 2 sets** 00.6 sec

**3. Distances**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
59	60	583.5100	583.5065	583.5076	-2.4	1.1	6.98	1.6	1.1
	71	474.1356	474.1312	474.1338	-1.8	2.6	9.92	2.0	1.4
	60	583.5073	583.5068		0.4	0.9	0.94		
	71	474.1350	474.1333		-1.2	0.5	1.61		
Sum					-5.02	5.02	19.45		

**Number of sets** 2

**Number of targets** 2

**Number of degrees of freedom** 3

**Std. Dev. of a distance measured in 1 face - see column 9 above**

**Std. Dev. of the mean of all sets - see column 10 above**

**Std. Dev. for all distances (1 obs only)** 1.8 ft/1000

**Std. Dev. for all distances (mean)** 1.3 ft/1000

**4. Averaged Data Sets**

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [° F]	Press [hPa]
59	GPS				5.040			
60	GPS	0°00'00"	89°43'15"	583.5076	4.620	-0.3	75.0	1002.5
71	CB	267°14'41"	90°08'18"	474.1338	4.660	-0.3	75.0	1002.5

Point Name	Code	Az	VA	SD	ih/th
59	GPS				5.040
60	GPS	260°29'29"	89°43'15"	583.5076	4.620
71	CB	167°44'10"	90°08'18"	474.1338	4.660

Point Name	Code	Az	HD	VD
59	GPS			
60	GPS	260°29'29"	583.501	3.262
71	CB	167°44'10"	474.132	-0.764

Point Name	Code	Northing	Easting	Elevation
59	GPS	1079162.3130	563504.1500	238.4170
60	GPS	1079065.9311	562928.7274	241.6862
71	CB	1078699.0465	563604.8523	237.6573

## Instrument Station

### Stationing Type

### Station Setup

Station 59  
Code GPS  
Instrument Height 5.040

### Atmospheric Settings

Temperature 75.0°F  
Pressure 1002.4hPa  
Refraction Const. 0.142

Horizontal Circle Mode Zero

### Standard Deviations

Hz 0°00'03"dms  
V 0°00'03"dms  
EDM constant 2mm  
EDM ppm 2ppm  
Centering Error 0mm

### Backsight Points

Point Name	Northing	Easting	Elevation
60	1079065.9270	562928.7060	241.6680

### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
60	GPS	583.5039	0°00'00"	89°43'17"	4.6200	0
60	GPS	583.5027	0°00'00"	89°43'18"	4.6200	0
60	GPS	583.5029	0°00'00"	89°43'17"	4.6200	0
60	GPS	583.5057	180°00'05"	270°16'48"	4.6200	0
60	GPS	583.5040	180°00'07"	270°16'47"	4.6200	0
60	GPS	583.5027	180°00'05"	270°16'46"	4.6200	0

60	GPS	583.5053	0°00'00"	89°43'17"	4.6200	0
60	GPS	583.5061	0°00'00"	89°43'18"	4.6200	0
60	GPS	583.5002	0°00'00"	89°43'18"	4.6200	0
60	GPS	583.5068	180°00'07"	270°16'49"	4.6200	0
60	GPS	583.5049	180°00'07"	270°16'46"	4.6200	0
60	GPS	583.5077	180°00'07"	270°16'46"	4.6200	0

**Result**

	<b>Coordinates</b>	<b>Std.Dev.</b>		<b>Std.Dev.</b>
<b>Northing</b>	1079162.3130	?sft	<b>Orientation</b>	-99°30'31" ?
<b>Easting</b>	563504.1500	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	238.4170	?sft		

**Multiple Rounds**

**1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R <sup>2</sup>
		dms	dms	dms	dms	dms	sec	sec	sec <sup>2</sup>
59	60	0°00'00"	180°00'05"	0°00'03"	0°00'00"	0°00'00"	00.0	00.3	00.073
	72	260°13'02"	80°13'06"	260°13'04"	260°13'01"	260°13'01"	-00.5	-00.3	00.073
							-00.3		
	60	0°00'00"	180°00'07"	0°00'04"	0°00'00"		00.0	-00.3	00.073
	72	260°13'01"	80°13'06"	260°13'04"	260°13'00"		00.5	00.3	00.073
							00.3		
Sum								00.0	00.292

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 1

**Std.Dev. of a direction measured in both faces** 00.5 sec  
**Std.Dev. of a direction averaged over 2 sets** 00.4 sec

**2. Vertical Angles**

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
59	60	89°43'17"	270°16'48"	02.5	89°43'15"	89°43'15"	-00.4	00.132
	72	90°12'37"	269°47'29"	02.7	90°12'34"	90°12'34"	-00.4	00.144

				05.2				
	60	89°43'17"	270°16'49"	03.2	89°43'14"		00.4	00.132
	72	90°12'37"	269°47'30"	03.6	90°12'33"		00.4	00.144
				06.8				
Sum							00.0	00.552

Mean Index Correction 03.0 sec

Number of sets 2

Number of targets 2

Number of degrees of freedom 2

Std.Dev. of a vertical angle measured in both faces 00.5 sec

Std.Dev. of a vertical angle averaged over 2 sets 00.4 sec

3. Distances

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
59	60	583.5039	583.5057	583.5054	1.5	-0.3	2.44	1.2	0.8
	72	944.1682	944.1702	944.1688	0.5	-1.4	2.36	1.1	0.8
	60	583.5053	583.5068		0.1	-1.4	1.85		
	72	944.1689	944.1677		-0.2	1.1	1.20		
Sum					2.02	-2.02	7.85		

Number of sets 2

Number of targets 2

Number of degrees of freedom 3

Std. Dev. of a distance measured in 1 face - see column 9 above

Std. Dev. of the mean of all sets - see column 10 above

Std. Dev. for all distances (1 obs only) 1.1 ft/1000

Std. Dev. for all distances (mean) 0.8 ft/1000

4. Averaged Data Sets

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [° F]	Press [hPa]
59	GPS				5.040			
60	GPS	0°00'00"	89°43'15"	583.5054	4.620	-0.3	75.0	1002.4

72 CB 260°13'01" 90°12'34" 944.1688 4.650 -0.3 75.0 1002.4

Point Name	Code	Az	VA	SD	ih/th
59	GPS				5.040
60	GPS	260°29'29"	89°43'15"	583.5054	4.620
72	CB	160°42'29"	90°12'34"	944.1688	4.650

Point Name	Code	Az	HD	VD
59	GPS			
60	GPS	260°29'29"	583.498	3.264
72	CB	160°42'29"	944.162	-3.061

Point Name	Code	Northing	Easting	Elevation
59	GPS	1079162.3130	563504.1500	238.4170
60	GPS	1079065.9311	562928.7274	241.6862
72	CB	1078271.2562	563816.0509	235.3748

### Instrument Station

Stationing Type		Station Setup	
Station	72	<b>Atmospheric Settings</b>	
Code	CB	Temperature	75.0°F
Instrument Height	4.980	Pressure	1002.5hPa
Horizontal Circle Mode		Refraction Const.	0.142
Standard Deviations			
Hz			Zero
V			0°00'03"dms
EDM constant			0°00'03"dms
EDM ppm			2mm
Centering Error			2ppm
			0mm

### Backsight Points

Point Name	Northing	Easting	Elevation
59	1079162.3130	563504.1500	238.4170

### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
59	GPS	944.1672	0°00'00"	89°50'02"	4.7400	0

### Result

Coordinates	Std.Dev.	Std.Dev.
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<b>Northing</b>	1078271.2562	?sft	<b>Orientation</b>	-19°17'31"	?
<b>Easting</b>	563816.0509	?sft	<b>Scale</b>	1.000000	?
<b>Elevation</b>	235.3748	?sft			

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## Instrument Station

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### Stationing Type

### Station Setup

**Station** 71  
**Code** CB  
**Instrument Height** 4.810

### Atmospheric Settings

**Temperature** 75.0°F  
**Pressure** 1002.1hPa  
**Refraction Const.** 0.142

**Horizontal Circle Mode** Zero

### Standard Deviations

**Hz** 0°00'03"dms  
**V** 0°00'03"dms  
**EDM constant** 2mm  
**EDM ppm** 2ppm  
**Centering Error** 0mm

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## Backsight Points

Point Name	Northing	Easting	Elevation
59	1079162.3130	563504.1500	238.4170

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## Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
59	GPS	474.1413	0°00'00"	89°54'59"	4.7400	0

## Result

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1078699.0465	?sft	<b>Orientation</b>	-12°15'50"
<b>Easting</b>	563604.8523	?sft	<b>Scale</b>	1.000000
<b>Elevation</b>	237.6573	?sft		

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JB,NMMJ783\_06022014,DT2014-06-02,TM09:53:40  
MO,AD0,UN2,SF1.0,EC1,EO0.0,AU0  
CG,A01,G01  
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BK,OP69,BP68,BS159.23223,BC0.00000  
LS,HI5.0600,HR4.9400  
SS,OP69,FP68,AR0.00000,ZE89.47485,SD864.700,--GPS  
BK,OP69,BP68,BS159.23210,BC0.00000  
SS,OP69,FP68,AR0.00000,ZE89.47478,SD864.700,--GPS  
BK,OP69,BP68,BS159.23210,BC0.00000  
SS,OP69,FP68,AR0.00000,ZE89.47446,SD864.699,--GPS  
LS,HI5.0600,HR4.6200  
SS,OP69,FP73,AR9.48288,ZE90.56362,SD271.234,--CB  
SS,OP69,FP73,AR9.48295,ZE90.56388,SD271.235,--CB  
SS,OP69,FP73,AR9.48296,ZE90.56359,SD271.234,--CB  
LS,HI5.0600,HR4.9400  
SS,OP69,FP68,AR180.00027,ZE270.12073,SD864.697,--GPS  
SS,OP69,FP68,AR180.00035,ZE270.12057,SD864.695,--GPS  
SS,OP69,FP68,AR180.00053,ZE270.12059,SD864.695,--GPS  
LS,HI5.0600,HR4.6200  
SS,OP69,FP73,AR189.48343,ZE269.03108,SD271.231,--CB  
SS,OP69,FP73,AR189.48326,ZE269.03071,SD271.232,--CB  
SS,OP69,FP73,AR189.48363,ZE269.03085,SD271.231,--CB  
BK,OP69,BP68,BS159.23208,BC0.00000  
LS,HI5.0600,HR4.9400  
SS,OP69,FP68,AR0.00000,ZE89.47483,SD864.695,--GPS  
BK,OP69,BP68,BS159.23208,BC0.00000  
SS,OP69,FP68,AR0.00000,ZE89.47510,SD864.695,--GPS  
BK,OP69,BP68,BS159.23208,BC0.00000  
SS,OP69,FP68,AR0.00000,ZE89.47533,SD864.696,--GPS  
LS,HI5.0600,HR4.6200  
SS,OP69,FP73,AR9.48284,ZE90.56394,SD271.235,--CB  
SS,OP69,FP73,AR9.48290,ZE90.56396,SD271.233,--CB  
SS,OP69,FP73,AR9.48277,ZE90.56389,SD271.233,--CB  
LS,HI5.0600,HR4.9400  
SS,OP69,FP68,AR180.00030,ZE270.12057,SD864.697,--GPS  
SS,OP69,FP68,AR180.00011,ZE270.12044,SD864.696,--GPS  
SS,OP69,FP68,AR180.00020,ZE270.12041,SD864.696,--GPS  
LS,HI5.0600,HR4.6200  
SS,OP69,FP73,AR189.48323,ZE269.03080,SD271.234,--CB  
SS,OP69,FP73,AR189.48313,ZE269.03088,SD271.231,--CB  
SS,OP69,FP73,AR189.48326,ZE269.03077,SD271.232,--CB  
LS,HI5.0600,HR4.9400  
LS,HI5.0600,HR4.6200  
--Round: 1, PN: 68, dHz: -0°00'00", dvt: -0°00'03", dSD: 0.003  
--Round: 1, PN: 68, dHz: -0°00'00", dvt: -0°00'04", dSD: 0.003  
--Round: 1, PN: 68, dHz: -0°00'00", dvt: -0°00'07", dSD: 0.003  
--Round: 1, PN: 73, dHz: -0°00'01", dvt: -0°00'09", dSD: 0.001  
--Round: 1, PN: 73, dHz: -0°00'00", dvt: -0°00'06", dSD: 0.002  
--Round: 1, PN: 73, dHz: -0°00'00", dvt: -0°00'09", dSD: 0.001  
--Round: 1, PN: 68, dHz: -0°00'00", dvt: 0°00'01", dSD: 0.000  
--Round: 1, PN: 68, dHz: 0°00'01", dvt: 0°00'03", dSD: -0.002  
--Round: 1, PN: 68, dHz: 0°00'03", dvt: 0°00'02", dSD: -0.002  
--Round: 1, PN: 73, dHz: 0°00'02", dvt: 0°00'04", dSD: -0.002  
--Round: 1, PN: 73, dHz: 0°00'00", dvt: 0°00'08", dSD: -0.001  
--Round: 1, PN: 73, dHz: 0°00'04", dvt: 0°00'07", dSD: -0.002  
--Round: 2, PN: 68, dHz: -0°00'00", dvt: -0°00'03", dSD: -0.002  
--Round: 2, PN: 68, dHz: -0°00'00", dvt: -0°00'01", dSD: -0.001  
--Round: 2, PN: 68, dHz: -0°00'00", dvt: 0°00'02", dSD: -0.001  
--Round: 2, PN: 73, dHz: -0°00'01", dvt: -0°00'05", dSD: 0.002  
--Round: 2, PN: 73, dHz: -0°00'01", dvt: -0°00'05", dSD: 0.000  
--Round: 2, PN: 73, dHz: -0°00'02", dvt: -0°00'06", dSD: 0.000  
--Round: 2, PN: 68, dHz: -0°00'00", dvt: 0°00'03", dSD: 0.000

--Round: 2, PN: 68, dHz: -0°00'02", dvt: 0°00'04", dSD: 0.000  
--Round: 2, PN: 68, dHz: -0°00'01", dvt: 0°00'04", dSD: -0.001  
--Round: 2, PN: 73, dHz: -0°00'00", dvt: 0°00'07", dSD: 0.001  
--Round: 2, PN: 73, dHz: -0°00'01", dvt: 0°00'06", dSD: -0.002  
--Round: 2, PN: 73, dHz: 0°00'00", dvt: 0°00'07", dSD: -0.001  
BK,OP69,BP68,BS159.23186,BC0.00000  
LS,HI5.0600,HR4.9400  
SS,OP69,FP68,AR0.00000,ZE89.47513,SD864.699,--GPS  
BK,OP69,BP68,BS159.23186,BC0.00000  
SS,OP69,FP68,AR0.00000,ZE89.47516,SD864.700,--GPS  
BK,OP69,BP68,BS159.23186,BC0.00000  
SS,OP69,FP68,AR0.00000,ZE89.47519,SD864.698,--GPS  
LS,HI5.0600,HR4.9800  
SS,OP69,FP74,AR85.02102,ZE94.04025,SD297.025,--CB  
SS,OP69,FP74,AR85.02099,ZE94.04035,SD297.028,--CB  
SS,OP69,FP74,AR85.02123,ZE94.04052,SD297.026,--CB  
LS,HI5.0600,HR4.9400  
SS,OP69,FP68,AR180.00075,ZE270.12071,SD864.699,--GPS  
SS,OP69,FP68,AR180.00032,ZE270.12081,SD864.700,--GPS  
SS,OP69,FP68,AR180.00048,ZE270.12074,SD864.699,--GPS  
LS,HI5.0600,HR4.9800  
SS,OP69,FP74,AR265.02154,ZE265.55522,SD297.026,--CB  
SS,OP69,FP74,AR265.02165,ZE265.55533,SD297.026,--CB  
SS,OP69,FP74,AR265.02166,ZE265.55552,SD297.025,--CB  
BK,OP69,BP68,BS159.23184,BC0.00000  
LS,HI5.0600,HR4.9400  
SS,OP69,FP68,AR0.00000,ZE89.47538,SD864.699,--GPS  
BK,OP69,BP68,BS159.23184,BC0.00000  
SS,OP69,FP68,AR0.00000,ZE89.47520,SD864.697,--GPS  
BK,OP69,BP68,BS159.23184,BC0.00000  
SS,OP69,FP68,AR0.00000,ZE89.47528,SD864.699,--GPS  
LS,HI5.0600,HR4.9800  
SS,OP69,FP74,AR85.02130,ZE94.04003,SD297.024,--CB  
SS,OP69,FP74,AR85.02123,ZE94.04023,SD297.025,--CB  
SS,OP69,FP74,AR85.02120,ZE94.04016,SD297.024,--CB  
LS,HI5.0600,HR4.9400  
SS,OP69,FP68,AR180.00078,ZE270.12095,SD864.701,--GPS  
SS,OP69,FP68,AR180.00102,ZE270.12090,SD864.699,--GPS  
SS,OP69,FP68,AR180.00057,ZE270.12063,SD864.698,--GPS  
LS,HI5.0600,HR4.9800  
SS,OP69,FP74,AR265.02190,ZE265.55558,SD297.026,--CB  
SS,OP69,FP74,AR265.02191,ZE265.55560,SD297.025,--CB  
SS,OP69,FP74,AR265.02208,ZE265.55542,SD297.023,--CB  
LS,HI5.0600,HR4.9400  
LS,HI5.0600,HR4.9800  
--Round: 1, PN: 68, dHz: 0°00'01", dvt: -0°00'01", dSD: 0.000  
--Round: 1, PN: 68, dHz: 0°00'01", dvt: -0°00'01", dSD: 0.001  
--Round: 1, PN: 68, dHz: 0°00'01", dvt: -0°00'00", dSD: -0.001  
--Round: 1, PN: 74, dHz: -0°00'01", dvt: -0°00'02", dSD: 0.000  
--Round: 1, PN: 74, dHz: -0°00'01", dvt: -0°00'01", dSD: 0.003  
--Round: 1, PN: 74, dHz: 0°00'01", dvt: 0°00'01", dSD: 0.001  
--Round: 1, PN: 68, dHz: 0°00'01", dvt: 0°00'01", dSD: -0.001  
--Round: 1, PN: 68, dHz: -0°00'04", dvt: -0°00'00", dSD: 0.001  
--Round: 1, PN: 68, dHz: -0°00'02", dvt: 0°00'00", dSD: 0.000  
--Round: 1, PN: 74, dHz: -0°00'03", dvt: 0°00'04", dSD: 0.001  
--Round: 1, PN: 74, dHz: -0°00'02", dvt: 0°00'03", dSD: 0.000  
--Round: 1, PN: 74, dHz: -0°00'02", dvt: 0°00'01", dSD: 0.000  
--Round: 2, PN: 68, dHz: 0°00'01", dvt: 0°00'02", dSD: 0.000  
--Round: 2, PN: 68, dHz: 0°00'01", dvt: -0°00'00", dSD: -0.002  
--Round: 2, PN: 68, dHz: 0°00'01", dvt: 0°00'01", dSD: 0.000  
--Round: 2, PN: 74, dHz: 0°00'02", dvt: -0°00'04", dSD: -0.001  
--Round: 2, PN: 74, dHz: 0°00'01", dvt: -0°00'02", dSD: 0.000  
--Round: 2, PN: 74, dHz: 0°00'01", dvt: -0°00'02", dSD: -0.002

--Round: 2, PN: 68, dHz: 0°00'01", dvt: -0°00'02", dSD: 0.002  
--Round: 2, PN: 68, dHz: 0°00'03", dvt: -0°00'01", dSD: 0.000  
--Round: 2, PN: 68, dHz: -0°00'02", dvt: 0°00'01", dSD: -0.001  
--Round: 2, PN: 74, dHz: 0°00'00", dvt: 0°00'00", dSD: 0.000  
--Round: 2, PN: 74, dHz: 0°00'00", dvt: -0°00'00", dSD: -0.001  
--Round: 2, PN: 74, dHz: 0°00'02", dvt: 0°00'02", dSD: -0.002

LS,HI5.0600,HR5.3000  
SS,OP69,FP4579,AR140.42446,ZE89.47123,SD65.511,--BF BWW1 ST  
SS,OP69,FP4580,AR139.38276,ZE89.47049,SD63.441,--BF BWW1  
SS,OP69,FP4581,AR145.00181,ZE89.51138,SD63.273,--BDC BDSW  
SS,OP69,FP4582,AR145.40389,ZE90.06363,SD62.858,--PE  
SS,OP69,FP4583,AR110.43339,ZE90.11466,SD32.353,--PE  
SS,OP69,FP4584,AR24.20053,ZE90.20134,SD54.435,--PE  
SS,OP69,FP4585,AR25.03553,ZE89.51518,SD54.627,--BDC BDSW  
SS,OP69,FP4586,AR29.35139,ZE89.45139,SD57.475,--BF BWW2 ST  
SS,OP69,FP4587,AR31.05474,ZE89.45373,SD55.514,--BF BWW2  
SS,OP69,FP4588,AR8.00453,ZE90.37271,SD107.354,--XS36 PE  
SS,OP69,FP4589,AR2.38501,ZE90.54258,SD162.319,--XS36 PE  
SS,OP69,FP4590,AR0.29328,ZE90.52023,SD218.803,--XS36 PE  
SS,OP69,FP4591,AR0.03324,ZE90.42441,SD271.930,--XS36 PE  
SS,OP69,FP4592,AR0.33206,ZE90.29597,SD324.720,--XS36 PE  
SS,OP69,FP4593,AR1.05440,ZE90.17575,SD374.710,--XS36 PE  
SS,OP69,FP4594,AR359.13541,ZE90.16188,SD375.686,--XS35 PRC  
SS,OP69,FP4595,AR359.01426,ZE90.11339,SD367.948,--XS35 PRC  
SS,OP69,FP4596,AR358.17397,ZE90.26556,SD325.777,--XS35 PRC  
SS,OP69,FP4597,AR357.23099,ZE90.38300,SD272.938,--XS35 PRC  
SS,OP69,FP4598,AR357.02377,ZE90.48361,SD218.497,--XS35 PRC  
SS,OP69,FP4599,AR358.13100,ZE90.52067,SD161.262,--XS35 PRC  
SS,OP69,FP4600,AR1.00428,ZE90.21534,SD105.801,--XS35 PRC  
SS,OP69,FP4601,AR11.26305,ZE90.07191,SD49.020,--XS35 PRC  
SS,OP69,FP4602,AR126.58456,ZE89.57041,SD22.203,--XS35 PRC  
SS,OP69,FP4603,AR156.52222,ZE90.03557,SD57.603,--XS35 PRC  
SS,OP69,FP4604,AR169.58358,ZE90.15544,SD55.788,--XS34 PE  
SS,OP69,FP4605,AR170.36162,ZE89.48212,SD55.544,--BDC BDSW  
SS,OP69,FP4606,AR175.53471,ZE89.44165,SD55.646,--BF BWW4 ST  
SS,OP69,FP4607,AR176.05033,ZE89.43418,SD53.107,--BF BWW4  
SS,OP69,FP4608,AR163.10155,ZE90.20177,SD15.974,--XS34 PE  
SS,OP69,FP4609,AR355.58429,ZE90.29223,SD46.411,--XS34 PE  
SS,OP69,FP4610,AR355.00137,ZE89.51037,SD46.050,--BDC BDSW  
SS,OP69,FP4611,AR348.32419,ZE89.41104,SD46.137,--BF BWW3 ST  
SS,OP69,FP4612,AR348.14313,ZE89.42047,SD43.591,--BF BWW3 ST  
SS,OP69,FP4613,AR354.03162,ZE90.28034,SD103.823,--XS34 PE  
SS,OP69,FP4614,AR353.30176,ZE90.52047,SD160.086,--XS34 PE  
SS,OP69,FP4615,AR353.39056,ZE90.52309,SD218.018,--XS34 PE  
SS,OP69,FP4616,AR354.50198,ZE90.38379,SD272.992,--XS34 PE  
SS,OP69,FP4617,AR356.05091,ZE90.26555,SD328.126,--XS34 PE  
SS,OP69,FP4618,AR357.19045,ZE90.16552,SD377.190,--XS34 PE  
SS,OP69,FP4619,AR358.22557,ZE90.10270,SD429.329,--XS34 PE  
SS,OP69,FP4620,AR359.14333,ZE90.04468,SD488.281,--XS34 PE  
SS,OP69,FP4621,AR359.47068,ZE89.57541,SD540.629,--XS34 PE  
SS,OP69,FP4622,AR29.56456,ZE89.45546,SD57.964,--BWW2  
SS,OP69,FP4623,AR26.56449,ZE89.47153,SD62.149,--BWW2  
SS,OP69,FP4624,AR27.19116,ZE89.47151,SD62.506,--BWW2  
SS,OP69,FP4625,AR32.03049,ZE89.46512,SD60.213,--BWW2  
SS,OP69,FP4626,AR138.25370,ZE89.47023,SD64.071,--BWW1  
SS,OP69,FP4627,AR136.51560,ZE89.47270,SD68.037,--BWW1  
LS,HI5.0600,HR13.5500  
SS,OP69,FP4628,AR131.35568,ZE89.57502,SD87.074,--BWW1  
LS,HI5.0600,HR2.3300  
SS,OP69,FP4629,AR132.38343,ZE92.42063,SD87.244,--BWW1  
LS,HI5.0600,HR5.3000  
SS,OP69,FP4630,AR138.03590,ZE89.46333,SD68.957,--BWW1  
SS,OP69,FP4631,AR138.43046,ZE89.47288,SD67.089,--BWW1

SS,OP69,FP4632,AR141.41154,ZE89.42210,SD70.572,--BWW1  
 SS,OP69,FP4633,AR142.47547,ZE89.42149,SD70.058,--BWW1  
 SS,OP69,FP4634,AR140.25396,ZE89.47195,SD65.710,--BWW1 CLS  
 LS,HI5.0600,HR21.3500  
 SS,OP69,FP4635,AR138.51276,ZE87.11528,SD62.916,--XS BF LELB  
 SS,OP69,FP4636,AR134.16076,ZE87.59253,SD56.379,--XS BF LELB  
 LS,HI5.0600,HR5.3000  
 SS,OP69,FP4637,AR177.39293,ZE89.43174,SD53.114,--BWW4  
 SS,OP69,FP4638,AR181.46289,ZE89.45242,SD55.174,--BWW4  
 LS,HI5.0600,HR11.1300  
 SS,OP69,FP4639,AR201.01332,ZE94.09389,SD72.611,--BWW4  
 LS,HI5.0600,HR10.0300  
 SS,OP69,FP4640,AR199.45017,ZE94.30363,SD74.269,--BWW4  
 LS,HI5.0600,HR5.3000  
 SS,OP69,FP4641,AR181.03173,ZE89.45287,SD56.604,--BWW4  
 SS,OP69,FP4642,AR179.03017,ZE89.44058,SD55.663,--BWW4  
 SS,OP69,FP4643,AR176.35317,ZE89.44176,SD60.982,--BWW4  
 SS,OP69,FP4644,AR176.00108,ZE89.42594,SD60.866,--BWW4  
 SS,OP69,FP4645,AR176.34410,ZE89.44306,SD55.780,--BWW4 CLS  
 LS,HI5.0600,HR21.3500  
 SS,OP69,FP4646,AR176.22167,ZE91.17072,SD51.815,--XS BF LELB  
 LS,HI5.0600,HR25.5000  
 SS,OP69,FP4647,AR178.40191,ZE87.40576,SD36.005,--XS BF LELB  
 LS,HI5.0600,HR5.3000  
 SS,OP69,FP4648,AR346.29573,ZE89.41346,SD43.823,--BWW3  
 SS,OP69,FP4649,AR341.44014,ZE89.44588,SD46.370,--BWW3  
 LS,HI5.0600,HR1.5000  
 SS,OP69,FP4650,AR324.14172,ZE102.25503,SD68.457,--BWW3  
 LS,HI5.0600,HR8.9300  
 SS,OP69,FP4651,AR325.43068,ZE96.17134,SD68.587,--BWW3  
 LS,HI5.0600,HR5.3000  
 SS,OP69,FP4652,AR344.16434,ZE89.42540,SD47.141,--BWW3  
 SS,OP69,FP4653,AR347.57245,ZE89.45209,SD51.271,--BWW3  
 SS,OP69,FP4654,AR348.43149,ZE89.44429,SD51.345,--BWW3  
 SS,OP69,FP4655,AR348.00301,ZE89.42481,SD46.336,--BWW3 CLS  
 LS,HI5.0600,HR4.9400  
 SS,OP69,FP4656,AR359.59481,ZE89.47551,SD864.698,--CB68  
 OC,OP68,N 1075819.4515,E 565745.6735,EL244.9877,--GPS  
 BK,OP68,BP69,BS339.23223,BC0.00000  
 LS,HI5.2300,HR4.7800  
 SS,OP68,FP69,AR0.00000,ZE90.14390,SD864.694,--GPS  
 LS,HI5.2300,HR5.3000  
 SS,OP68,FP4657,AR358.20222,ZE90.36472,SD433.962,--XS36 PE  
 SS,OP68,FP4658,AR359.54507,ZE90.36177,SD432.476,--XS35 PRC  
 SS,OP68,FP4659,AR359.03560,ZE90.34463,SD377.915,--XS35 PRC  
 SS,OP68,FP4660,AR357.21140,ZE90.35412,SD379.658,--XS36 PE  
 SS,OP68,FP4661,AR356.10421,ZE90.35040,SD326.995,--XS36 PE  
 SS,OP68,FP4662,AR358.12329,ZE90.33044,SD325.030,--XS35 PRC  
 SS,OP68,FP4663,AR359.35303,ZE90.31520,SD270.641,--XS34 PE  
 SS,OP68,FP4664,AR357.02020,ZE90.32401,SD271.437,--XS35 PRC  
 SS,OP68,FP4665,AR354.39478,ZE90.33077,SD273.131,--XS36 PE  
 SS,OP68,FP4666,AR352.38523,ZE90.34441,SD220.716,--XS36 PE  
 SS,OP68,FP4667,AR355.31054,ZE90.31258,SD218.657,--XS35 PRC  
 SS,OP68,FP4668,AR358.48414,ZE90.32191,SD217.738,--XS34 PE  
 SS,OP68,FP4669,AR358.13520,ZE90.29417,SD170.310,--XS34 PE  
 SS,OP68,FP4670,AR353.45087,ZE90.29142,SD171.163,--XS35 PRC  
 SS,OP68,FP4671,AR349.54223,ZE90.31328,SD172.718,--XS36 PE  
 SS,OP68,FP4672,AR334.17104,ZE90.10159,SD75.756,--XS36 PE  
 SS,OP68,FP4673,AR342.18087,ZE90.16285,SD71.040,--XS35 PRC  
 SS,OP68,FP4674,AR352.02474,ZE90.31569,SD67.976,--XS34 PE  
 SS,OP68,FP4675,AR205.39036,ZE88.32539,SD20.570,--XS34 PE  
 SS,OP68,FP4676,AR229.48270,ZE88.35448,SD29.467,--XS35 PRC  
 SS,OP68,FP4677,AR239.32013,ZE88.51504,SD39.515,--XS36 PE

SP,PN179,N 1075756.300,E 565650.600,EL0.000,--SECT37  
 SP,PN178,N 1076426.500,E 565445.700,EL0.000,--SECT37  
 SP,PN4678,N 1075728.847,E 565658.511,EL246.244,--XS37  
 SK,OP68,FP4678,AR244.30043,ZE89.23452,SD125.743,--XS37  
 SP,PN4679,N 1075792.130,E 565640.374,EL244.513,--XS37  
 SK,OP68,FP4679,AR276.03534,ZE90.12480,SD108.798,--XS37  
 OF,AR339.17336,ZE90.21332,SD183.189  
 OF,OL-40.000,--Right Angle Offset  
 SS,OP68,FP4680,AR326.58300,ZE90.21035,SD187.505,--XS37  
 LS,HI5.2300,HR4.7800  
 SS,OP68,FP4681,AR0.00017,ZE90.14427,SD864.696,--CB69  
 OC,OP73,N 1076362.3417,E 565492.1487,EL237.8711,--CB  
 BK,OP73,BP69,BS349.11519,BC0.00000  
 LS,HI4.9100,HR5.0000  
 SS,OP73,FP69,AR0.00000,ZE89.07231,SD271.233,--GPS  
 LS,HI4.9100,HR7.3300  
 OF,AR185.18388,ZE87.54366,SD248.576  
 OF,OL-23.000,--Right Angle Offset  
 SS,OP73,FP4731,AR180.01154,ZE87.55086,SD249.638,--XS37  
 LS,HI4.9100,HR5.3000  
 SP,PN4732,N 1076245.679,E 565499.720,EL240.777,--XS37 LELB  
 SK,OP73,FP4732,AR187.05208,ZE88.23081,SD116.967,--XS37 LELB  
 SP,PN4733,N 1076278.951,E 565492.367,EL230.406,--XS37 LELB  
 SK,OP73,FP4733,AR190.39074,ZE94.50557,SD83.699,--XS37 LELB  
 LS,HI4.9100,HR9.4300  
 OF,AR206.54537,ZE97.55572,SD23.200  
 OF,OL10.000,--Right Angle Offset  
 SS,OP73,FP4734,AR230.26018,ZE97.16516,SD25.263,--XS37 LELB  
 LS,HI4.9100,HR5.3000  
 SP,PN4735,N 1076373.122,E 565463.377,EL234.869,--XS37 LELB  
 SK,OP73,FP4735,AR301.20316,ZE94.51294,SD30.839,--XS37 LELB  
 SP,PN4736,N 1076419.025,E 565447.527,EL235.255,--XS37  
 SK,OP73,FP4736,AR332.35318,ZE91.46030,SD72.181,--XS37  
 SP,PN4737,N 1076444.795,E 565443.796,EL236.958,--XS37 LELB  
 SK,OP73,FP4737,AR340.24498,ZE90.18499,SD95.596,--XS37 LELB  
 SP,PN4738,N 1076453.455,E 565439.540,EL235.413,--XS37 PE  
 SK,OP73,FP4738,AR340.48004,ZE91.07341,SD105.242,--XS37 PE  
 SP,PN4739,N 1076462.258,E 565434.024,EL235.571,--XS37 PRC  
 SK,OP73,FP4739,AR340.36508,ZE90.56488,SD115.621,--XS37 PRC  
 SP,PN4740,N 1076471.227,E 565429.063,EL235.524,--XS37 PE  
 SK,OP73,FP4740,AR340.42549,ZE90.53286,SD125.869,--XS37 PE  
 SP,PN4741,N 1076474.798,E 565426.705,EL236.628,--XS37 LELB  
 SK,OP73,FP4741,AR340.36174,ZE90.22325,SD130.128,--XS37 LELB  
 LS,HI4.9100,HR5.0000  
 SS,OP73,FP4742,AR359.59550,ZE89.07278,SD271.231,--GPS69  
 OC,OP69,N 1076628.7053,E 565441.3263,EL241.9066,--GPS  
 BK,OP69,BP74,BS244.25333,BC0.00000  
 LS,HI5.0700,HR4.8200  
 SS,OP69,FP74,AR0.00000,ZE94.05574,SD297.048,--CB  
 LS,HI5.0700,HR5.3000  
 SS,OP69,FP4743,AR86.10418,ZE90.22521,SD114.429,--XS34 PE PE  
 SS,OP69,FP4744,AR73.41264,ZE90.05570,SD118.178,--XS36 PE PE  
 SP,PN4745,N 1076652.412,E 565552.165,EL217.858,--XS33 LAWE  
 SK,OP69,FP4745,AR193.30051,ZE101.51596,SD115.832,--XS33 LAWE  
 SP,PN4746,N 1076659.855,E 565546.716,EL214.158,--XS33 RB  
 SK,OP69,FP4746,AR189.06290,ZE104.03243,SD113.301,--XS33 RB  
 LS,HI5.0700,HR9.4300  
 SP,PN4747,N 1076677.502,E 565516.487,EL211.076,--XS33 RB  
 SK,OP69,FP4747,AR172.34526,ZE106.27194,SD93.449,--XS33 RB  
 SP,PN4748,N 1076697.130,E 565496.745,EL210.243,--XS33 RB  
 SK,OP69,FP4748,AR154.34453,ZE107.13355,SD92.197,--XS33 RB  
 SP,PN4749,N 1076714.002,E 565490.685,EL213.492,--XS33 RB  
 SK,OP69,FP4749,AR145.37501,ZE103.42577,SD101.451,--XS33 RB

SP,PN4750,N 1076717.445,E 565486.329,EL217.860,--XS33 LAWE  
SK,OP69,FP4750,AR142.27547,ZE101.11278,SD101.437,--XS33 LAWE  
LS,HI5.0700,HR5.3000  
SP,PN4751,N 1076722.649,E 565483.600,EL220.264,--XS33 LELB  
SK,OP69,FP4751,AR139.48053,ZE101.44272,SD105.229,--XS33 LELB  
LS,HI5.0700,HR17.5700  
SP,PN4752,N 1076721.347,E 565482.957,EL211.707,--XS33 LELB  
SK,OP69,FP4752,AR139.46202,ZE99.53057,SD103.106,--XS33 LELB  
LS,HI5.0700,HR5.3000  
SP,PN4753,N 1076635.719,E 565554.223,EL229.876,--XS33 LELB  
SK,OP69,FP4753,AR202.01098,ZE95.57195,SD113.739,--XS33 LELB  
LS,HI5.0700,HR17.0700  
SP,PN4754,N 1076622.796,E 565579.825,EL235.971,--XS33 LELB LAWA  
SK,OP69,FP4754,AR208.01016,ZE87.29433,SD138.771,--XS33 LELB LAWA  
LS,HI5.0700,HR4.8200  
SS,OP69,FP4755,AR359.59398,ZE94.06046,SD297.045,--CB74  
OC,OP74,N 1076500.8218,E 565174.1029,EL220.9184,--CB  
BK,OP74,BP69,BS64.25333,BC0.00000  
LS,HI5.1000,HR4.4000  
SS,OP74,FP69,AR0.00000,ZE86.04586,SD296.977,--GPS  
LS,HI5.1000,HR9.5500  
SS,OP74,FP4756,AR354.29469,ZE89.42505,SD299.000,--XS BF LAWE  
LS,HI5.1000,HR-0.1500  
SS,OP74,FP4757,AR353.40228,ZE87.54106,SD298.246,--BVC  
LS,HI5.1000,HR21.5700  
SS,OP74,FP4758,AR355.31576,ZE89.57257,SD299.723,--XS BF RB  
--Modified 12:49:43 PM 6/3/2014  
--Old target values 17.5700sft -30mm  
LS,HI5.1000,HR17.5700  
SS,OP74,FP4759,AR0.06452,ZE89.42445,SD300.603,--XS BF RB  
SS,OP74,FP4760,AR3.53270,ZE89.17192,SD301.476,--XS BF RB  
LS,HI5.1000,HR9.4300  
SS,OP74,FP4761,AR6.11098,ZE89.44151,SD302.993,--XS BF LAWE  
SS,OP74,FP4762,AR7.53106,ZE89.21338,SD305.046,--XS BF LELB  
LS,HI5.1000,HR-0.1500  
SS,OP74,FP4763,AR8.03404,ZE87.55127,SD302.309,--BVC  
SS,OP74,FP4764,AR9.06421,ZE87.39232,SD269.265,--BVC  
LS,HI5.1000,HR9.4300  
SS,OP74,FP4765,AR9.22055,ZE89.44310,SD266.108,--XS BF RB  
--Modified 12:56:44 PM 6/3/2014  
--Old values XS BF LELB  
SS,OP74,FP4766,AR9.19294,ZE89.42402,SD266.290,--XS BF LAWE  
SS,OP74,FP4767,AR6.07568,ZE90.02591,SD263.820,--XS BF RB  
SS,OP74,FP4768,AR4.10184,ZE90.49213,SD262.761,--XS BF RB  
LS,HI5.1000,HR13.5500  
SS,OP74,FP4769,AR359.24449,ZE90.40095,SD261.624,--XS BF RB  
SS,OP74,FP4770,AR355.08076,ZE90.12176,SD260.655,--XS BF RB  
LS,HI5.1000,HR11.5500  
SS,OP74,FP4771,AR353.09164,ZE89.14541,SD261.873,--XS BF LAWE  
LS,HI5.1000,HR-0.1500  
SS,OP74,FP4772,AR353.58259,ZE87.36351,SD264.442,--BVC  
LS,HI5.1000,HR5.3000  
SS,OP74,FP4773,AR14.56228,ZE87.39187,SD244.812,--BWW2  
SS,OP74,FP4774,AR14.39203,ZE87.38138,SD243.566,--BWW2  
LS,HI5.1000,HR4.0000  
SS,OP74,FP4775,AR10.23021,ZE85.40441,SD263.225,--BWW2  
LS,HI5.1000,HR0.5000  
SS,OP74,FP4776,AR9.43014,ZE86.28308,SD266.230,--BWW2 CLS  
--Modified 1:09:53 PM 6/3/2014  
--Old values BWW2  
LS,HI5.1000,HR5.3000  
SP,PN4777,N 1076498.608,E 565391.484,EL232.332,--XS37 LELS  
SK,OP74,FP4777,AR26.09277,ZE86.56338,SD217.724,--XS37 LELS

LS,HI5.1000,HR9.4300  
 SP,PN4778,N 1076498.623,E 565380.737,EL230.655,--XS37 LELB  
 SK,OP74,FP4778,AR26.11015,ZE86.06231,SD207.145,--XS37 LELB  
 SP,PN4779,N 1076515.801,E 565369.827,EL222.203,--XS37 LELB  
 SK,OP74,FP4779,AR21.11511,ZE88.21433,SD196.396,--XS37 LELB  
 SP,PN4780,N 1076523.054,E 565364.463,EL217.917,--XS37 LAWE  
 SK,OP74,FP4780,AR18.54461,ZE89.36107,SD191.677,--XS37 LAWE  
 SP,PN4781,N 1076532.371,E 565354.095,EL215.521,--XS37 RB  
 SK,OP74,FP4781,AR15.37559,ZE90.20058,SD182.757,--XS37 RB  
 SP,PN4782,N 1076559.786,E 565337.456,EL214.165,--XS37 RB  
 SK,OP74,FP4782,AR5.43358,ZE90.47589,SD173.704,--XS37 RB  
 SP,PN4783,N 1076581.077,E 565322.089,EL213.061,--XS37 RB  
 SK,OP74,FP4783,AR357.06090,ZE91.12013,SD168.401,--XS37 RB  
 SP,PN4784,N 1076610.000,E 565304.320,EL212.971,--XS37 RB  
 SK,OP74,FP4784,AR345.35479,ZE91.13107,SD169.985,--XS37 RB  
 SP,PN4785,N 1076625.320,E 565294.787,EL213.964,--XS37 RB  
 SK,OP74,FP4785,AR339.40581,ZE90.52026,SD173.428,--XS37 RB  
 LS,HI5.1000,HR1.0000  
 SP,PN4786,N 1076634.588,E 565291.828,EL217.892,--XS37 LAWE  
 SK,OP74,FP4786,AR336.55278,ZE92.17244,SD178.353,--XS37 LAWE  
 SP,PN181,N 1075984.000,E 565343.700,EL0.000,--SECT38  
 SP,PN180,N 1076069.900,E 565012.600,EL0.000,--SECT38  
 LS,HI5.1000,HR5.3000  
 SP,PN4787,N 1076006.495,E 565275.923,EL222.354,--XS38 LELB  
 SK,OP74,FP4787,AR103.56069,ZE89.48539,SD504.757,--XS38 LELB  
 --Modified 3:32:35 PM 6/6/2014  
 --Old values XS48 LELB  
 SP,PN4788,N 1076007.830,E 565262.177,EL218.567,--XS38 LAWE  
 SK,OP74,FP4788,AR105.26416,ZE90.14480,SD500.852,--XS38 LAWE  
 --Modified 3:32:47 PM 6/6/2014  
 --Old values XS48 LAWE  
 SP,PN4789,N 1076008.612,E 565247.157,EL216.987,--XS38 RB  
 SK,OP74,FP4789,AR107.07546,ZE90.25488,SD497.665,--XS38 RB  
 --Modified 3:32:58 PM 6/6/2014  
 --Old values XS48 RB  
 SP,PN4790,N 1076010.822,E 565218.262,EL216.690,--XS38 RB  
 SK,OP74,FP4790,AR110.25282,ZE90.28106,SD492.051,--XS38 RB  
 SP,PN4791,N 1076021.684,E 565184.529,EL217.561,--XS38 RB  
 SK,OP74,FP4791,AR114.19393,ZE90.22408,SD479.309,--XS38 RB  
 OF,AR114.48385,ZE90.15164,SD479.399  
 OF,OL12.000,--Right Angle Offset  
 SS,OP74,FP4792,AR116.14405,ZE90.15161,SD479.550,--XS38 LAWE  
 LS,HI5.1000,HR0.0000  
 OF,AR113.50188,ZE89.25046,SD479.986  
 OF,OL30.000,--Right Angle Offset  
 SS,OP74,FP4793,AR117.24546,ZE89.25087,SD480.923,--XS38 LELB  
 LS,HI5.1000,HR4.4000  
 SS,OP74,FP4794,AR359.59492,ZE86.04563,SD296.973,--GPS69  
 OC,OP9003,N 1077344.7260,E 565706.0505,EL233.1315,--CB3  
 BK,OP9003,BP97,BS44.08180,BC0.00000  
 LS,HI5.1600,HR5.0500  
 SS,OP9003,FP97,AR0.00000,ZE90.12358,SD1051.726,--CB  
 SP,PN161,N 1077455.600,E 565506.800,EL0.000,--SECT32  
 SP,PN162,N 1077028.400,E 566001.400,EL0.000,--SECT32  
 LS,HI5.1600,HR9.4300  
 SP,PN6075,N 1077303.411,E 565681.402,EL233.646,--XS32 PE  
 SK,OP9003,FP6075,AR166.40558,ZE84.19145,SD48.351,--XS32 PE  
 LS,HI5.1600,HR5.3000  
 SP,PN6076,N 1077294.241,E 565697.539,EL233.302,--XS32 PRC  
 SK,OP9003,FP6076,AR145.25528,ZE89.39074,SD51.203,--XS32 PRC  
 SP,PN6077,N 1077281.142,E 565711.095,EL232.304,--XS32 PE  
 SK,OP9003,FP6077,AR131.19326,ZE90.37030,SD63.793,--XS32 PE  
 SP,PN6078,N 1077276.679,E 565719.467,EL231.528,--XS32 LELB



SK,OP9003,FP6078,AR124.42300,ZE91.12324,SD69.379,--XS32 LELB  
LS,HI5.1600,HR14.6500  
SP,PN6079,N 1077259.994,E 565730.218,EL217.775,--XS32 LAWE  
SK,OP9003,FP6079,AR119.56316,ZE93.48313,SD88.316,--XS32 LAWE  
LS,HI5.1600,HR20.0700  
SP,PN6080,N 1077251.111,E 565737.914,EL214.745,--XS32 RB  
SK,OP9003,FP6080,AR117.03530,ZE92.00472,SD98.960,--XS32 RB  
LS,HI5.1600,HR25.5000  
SP,PN6081,N 1077216.714,E 565769.620,EL215.745,--XS32 RB  
SK,OP9003,FP6081,AR109.27115,ZE88.48591,SD142.972,--XS32 RB  
LS,HI5.1600,HR9.4300  
SP,PN6082,N 1077194.719,E 565804.153,EL216.195,--XS32 RB  
SK,OP9003,FP6082,AR102.40396,ZE94.02319,SD179.703,--XS32 RB  
SP,PN6083,N 1077169.808,E 565831.788,EL215.768,--XS32 RB  
SK,OP9003,FP6083,AR100.09058,ZE93.28413,SD215.840,--XS32 RB  
SP,PN6084,N 1077163.033,E 565838.582,EL217.742,--XS32 LAWE  
SK,OP9003,FP6084,AR99.45137,ZE92.49504,SD225.190,--XS32 LAWE  
LS,HI5.1600,HR5.0500  
SS,OP9003,FP6085,AR359.59598,ZE90.12457,SD1051.729,--CB97  
--15:21:30,Get base reference position at  
ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCGETBASE,RA0.00000,RE1,FI  
AH,DCBASE,MA0.000,ME1,RA0.000  
BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
--New base station detected  
--15:21:41,Get base reference position at  
ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCGETBASE,RA0.00000,RE1,FI  
AH,DCBASE,MA0.000,ME1,RA0.000  
BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
AH,DCROVER,MA6.562,ME2,RA6.775  
--15:24:24,Set ROVER receiver with base reference  
position:LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCROVER,RA6.77459,RE1,FI  
EQ,DCROVER,RXTrimble R8-3,RS5035448163,AN186,AI0,ATR8 GNSS/SPS88x  
Internal,TS5035448163,TA0.0,HO0.0,VO0.21293\*109750611  
AH,DCROVER,MA6.562,ME2,RA6.775  
EP,TM15:24:24,LA41.472583298,LN-74.134914136,HT135.376,RH0.034109,RV0.056418,DH0.925  
226,DV1.530128,GM4,CL3  
BL,DCROVER,PN6086,DX-42435.169015,DY-49111.717754,DZ-39714.402034,--XS32,GM4,CL3,HP0  
.034109,VP0.056418  
GQ,DCROVER,SV10,DR1,PD1.788031,DH0.925226,DV1.530128,RM23.454519,NE11,RH,RV,WS1795,F  
S242668.4,WE1795,ES242677.6,IM1  
GS,PN6086,N 1077324.347,E 565662.717,EL232.258,--XS32  
EP,TM15:25:08,LA41.472625427,LN-74.134986690,HT132.974,RH0.039846,RV0.066087,DH0.924  
519,DV1.533256,GM4,CL3  
BL,DCROVER,PN6087,DX-42496.271777,DY-49097.582489,DZ-39684.207698,--XS32,GM4,CL3,HP0  
.039846,VP0.066087  
GQ,DCROVER,SV10,DR1,PD1.790394,DH0.924519,DV1.533256,RM26.198522,NE6,RH,RV,WS1795,FS  
242716.8,WE1795,ES242721.8,IM1  
GS,PN6087,N 1077366.814,E 565607.627,EL229.855,--XS32  
EP,TM15:27:43,LA41.472711995,LN-74.135115910,HT133.524,RH0.032727,RV0.054740,DH0.981  
542,DV1.664832,GM4,CL3  
BL,DCROVER,PN6088,DX-42606.233596,DY-49068.382022,DZ-39618.508641,--SECT32,GM4,CL3,H  
P0.032727,VP0.054740  
GQ,DCROVER,SV9,DR1,PD1.932594,DH0.981542,DV1.664832,RM20.321111,NE6,RH,RV,WS1795,FS2  
42872.2,WE1795,ES242877.2,IM1  
GS,PN6088,N 1077454.125,E 565509.475,EL230.402,--SECT32  
CF,EL230.402,GD0.000  
DE,PN161,N 1077455.600,E 565506.800,EL0.000,--SECT32  
SD,ND1.475,ED-2.675,LD-230.402  
SP,PN160,N 1078679.500,E 565944.300,EL0.000,--SECT32  
EP,TM15:28:53,LA41.472793797,LN-74.135077593,HT131.940,RH0.031100,RV0.052178,DH0.922

576,DV1.547818,GM4,CL3  
 BL,DCROVER,PN6089,DX-42593.617221,DY-49006.252874,DZ-39557.828372,--XS32  
 LELS,GM4,CL3,HP0.031100,VP0.052178  
 GQ,DCROVER,SV10,DR1,PD1.801897,DH0.922576,DV1.547818,RM22.165775,NE8,RH,RV,WS1795,FS  
 242940.2,WE1795,ES242946.8,IM1  
 GS,PN6089,N 1077537.010,E 565538.239,EL228.817,--XS32 LELS  
 EP,TM15:30:27,LA41.472909577,LN-74.135020490,HT129.581,RH0.032076,RV0.054000,DH0.922  
 410,DV1.552883,GM4,CL3  
 BL,DCROVER,PN6090,DX-42573.692020,DY-48917.642551,DZ-39472.021856,--XS32  
 LELS,GM4,CL3,HP0.032076,VP0.054000  
 GQ,DCROVER,SV10,DR1,PD1.806180,DH0.922410,DV1.552883,RM20.857498,NE7,RH,RV,WS1795,FS  
 243036.2,WE1795,ES243042.2,IM1  
 GS,PN6090,N 1077654.329,E 565581.124,EL226.458,--XS32 LELS  
 EP,TM15:31:25,LA41.473002300,LN-74.134981833,HT130.137,RH0.030976,RV0.052239,DH0.922  
 534,DV1.555792,GM4,CL3  
 BL,DCROVER,PN6091,DX-42562.396339,DY-48849.888715,DZ-39401.674152,--XS32  
 LELB,GM4,CL3,HP0.030976,VP0.052239  
 GQ,DCROVER,SV10,DR1,PD1.808744,DH0.922534,DV1.555792,RM20.030249,NE6,RH,RV,WS1795,FS  
 243095.2,WE1795,ES243100.2,IM1  
 GS,PN6091,N 1077748.267,E 565610.111,EL227.013,--XS32 LELB  
 EP,TM15:33:45,LA41.473053705,LN-74.134956038,HT128.831,RH0.103644,RV0.166339,DH1.362  
 922,DV2.187275,GM4,CL3  
 BL,DCROVER,PN6092,DX-42553.280037,DY-48810.270247,DZ-39363.749855,--XS32  
 LELB,GM4,CL3,HP0.103644,VP0.166339  
 GQ,DCROVER,SV8,DR1,PD2.577096,DH1.362922,DV2.187275,RM54.144435,NE6,RH,RV,WS1795,FS2  
 43234.8,WE1795,ES243239.8,IM1  
 GS,PN6092,N 1077800.356,E 565629.486,EL225.707,--XS32 LELB  
 --16:04:01,Get base reference position at  
 ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
 RX,DCGETBASE,RA0.00000,RE1,FI  
 AH,DCBASE,MA0.000,ME1,RA0.000  
 BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
 --New base station detected  
 --16:04:10,Get base reference position at  
 ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
 RX,DCGETBASE,RA0.00000,RE1,FI  
 AH,DCBASE,MA0.000,ME1,RA0.000  
 BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
 --16:39:15,Get base reference position at  
 ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
 RX,DCGETBASE,RA0.00000,RE1,FI  
 AH,DCBASE,MA0.000,ME1,RA0.000  
 BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
 --New base station detected  
 --16:39:27,Get base reference position at  
 ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
 RX,DCGETBASE,RA0.00000,RE1,FI  
 AH,DCBASE,MA0.000,ME1,RA0.000  
 BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
 AH,DCROVER,MA6.562,ME2,RA6.775  
 --16:42:24,Set ROVER receiver with base reference  
 position:LA41.561297153,LN-74.015221844,HT99.55705  
 RX,DCROVER,RA6.77459,RE1,FI  
 EQ,DCROVER,RXTrimble R8-3,RS5035448163,AN186,AI0,ATR8 GNSS/SPS88x  
 Internal,TS5035448163,TA0.0,HO0.0,VO0.21293\*109750611  
 AH,DCROVER,MA6.562,ME2,RA6.775  
 EP,TM16:42:24,LA41.471164002,LN-74.144381448,HT156.509,RH0.050285,RV0.073641,DH1.108  
 081,DV1.542387,GM4,CL3  
 BL,DCROVER,PN6093,DX-46156.873407,DY-51173.332559,DZ-40771.499506,--SECT48  
 LELB,GM4,CL3,HP0.050285,VP0.073641  
 GQ,DCROVER,SV9,DR1,PD1.899150,DH1.108081,DV1.542387,RM37.679004,NE37,RH,RV,WS1795,FS  
 247320.8,WE1795,ES247357.4,IM1  
 GS,PN6093,N 1075875.224,E 561525.749,EL253.334,--SECT48 LELB

CF,EL253.334,GD0.000  
 DE,PN215,N 1075874.000,E 561523.500,EL0.000,--SECT48  
 SD,ND-1.224,ED-2.249,LD-253.334  
 SP,PN215,N 1075874.000,E 561523.500,EL0.000,--SECT48  
 SP,PN216,N 1075757.700,E 562463.800,EL0.000,--SECT48  
 EP,TM16:45:11,LA41.471153919,LN-74.144245324,HT139.593,RH0.040469,RV0.070867,DH1.516  
 518,DV2.779910,GM4,CL3  
 BL,DCROVER,PN6094,DX-46059.201323,DY-51139.738319,DZ-40790.381878,--XS48  
 LELB,GM4,CL3,HP0.040469,VP0.070867  
 GQ,DCROVER,SV8,DR1,PD3.166658,DH1.516518,DV2.779910,RM21.923369,NE26,RH,RV,WS1795,FS  
 247495.4,WE1795,ES247521.6,IM1  
 GS,PN6094,N 1075865.325,E 561628.892,EL236.420,--XS48 LELB  
 EP,TM16:47:00,LA41.471142232,LN-74.144132843,HT138.736,RH0.039742,RV0.069607,DH1.076  
 196,DV1.884907,GM4,CL3  
 BL,DCROVER,PN6095,DX-45975.222486,DY-51123.572893,DZ-40799.773371,--XS48  
 LELB,GM4,CL3,HP0.039742,VP0.069607  
 GQ,DCROVER,SV9,DR1,PD2.170501,DH1.076196,DV1.884907,RM22.854667,NE8,RH,RV,WS1795,FS2  
 47624.4,WE1795,ES247631.4,IM1  
 GS,PN6095,N 1075853.749,E 561714.132,EL235.565,--XS48 LELB  
 EP,TM16:49:38,LA41.471133573,LN-74.144052617,HT136.237,RH0.043413,RV0.064331,DH1.020  
 239,DV1.511837,GM4,CL3  
 BL,DCROVER,PN6096,DX-45915.648521,DY-51110.897783,DZ-40807.974655,--XS48  
 LELB,GM4,CL3,HP0.043413,VP0.064331  
 GQ,DCROVER,SV10,DR1,PD1.823880,DH1.020239,DV1.511837,RM28.877578,NE9,RH,RV,WS1795,FS  
 247781.8,WE1795,ES247792.4,IM1  
 GS,PN6096,N 1075845.165,E 561774.929,EL233.067,--XS48 LELB  
 EP,TM16:50:49,LA41.471137658,LN-74.144057975,HT132.284,RH0.036194,RV0.063352,DH1.111  
 976,DV1.946319,GM4,CL3  
 BL,DCROVER,PN6097,DX-45921.103173,DY-51106.511741,DZ-40807.525569,--XS48  
 DD,GM4,CL3,HP0.036194,VP0.063352  
 GQ,DCROVER,SV9,DR1,PD2.241572,DH1.111976,DV1.946319,RM19.912064,NE15,RH,RV,WS1795,FS  
 247848.2,WE1795,ES247862.4,IM1  
 GS,PN6097,N 1075849.287,E 561770.858,EL229.114,--XS48 DD  
 EP,TM16:55:52,LA41.471140490,LN-74.144076532,HT137.708,RH0.051988,RV0.090729,DH1.168  
 884,DV2.039920,GM4,CL3  
 BL,DCROVER,PN6098,DX-45934.054238,DY-51112.382961,DZ-40801.773628,--XS48  
 LELB,GM4,CL3,HP0.051988,VP0.090729  
 GQ,DCROVER,SV9,DR1,PD2.351077,DH1.168884,DV2.039920,RM23.048840,NE6,RH,RV,WS1795,FS2  
 48157,WE1795,ES248162.4,IM1  
 GS,PN6098,N 1075852.112,E 561756.792,EL234.538,--XS48 LELB  
 EP,TM16:59:16,LA41.471119468,LN-74.143920228,HT136.774,RH0.041200,RV0.060985,DH1.213  
 272,DV2.110012,GM4,CL3  
 BL,DCROVER,PN6099,DX-45816.429670,DY-51093.206535,DZ-40818.262077,--XS48  
 LELS,GM4,CL3,HP0.041200,VP0.060985  
 GQ,DCROVER,SV9,DR1,PD2.433964,DH1.213272,DV2.110012,RM24.409022,NE15,RH,RV,WS1795,FS  
 248355.4,WE1795,ES248369.2,IM1  
 GS,PN6099,N 1075831.187,E 561875.255,EL233.607,--XS48 LELS  
 EP,TM17:01:16,LA41.471101821,LN-74.143736650,HT138.115,RH0.050725,RV0.074884,DH1.123  
 016,DV1.657854,GM4,CL3  
 BL,DCROVER,PN6100,DX-45679.076211,DY-51067.859772,DZ-40830.688015,--XS48  
 LELS,GM4,CL3,HP0.050725,VP0.074884  
 GQ,DCROVER,SV10,DR1,PD2.002410,DH1.123016,DV1.657854,RM26.683830,NE7,RH,RV,WS1795,FS  
 248483.2,WE1795,ES248489.4,IM1  
 GS,PN6100,N 1075813.740,E 562014.369,EL234.950,--XS48 LELS  
 EP,TM17:02:55,LA41.471075998,LN-74.143469917,HT138.264,RH0.056723,RV0.083501,DH1.139  
 833,DV1.677914,GM4,CL3  
 BL,DCROVER,PN6101,DX-45479.838165,DY-51029.856568,DZ-40850.078650,--XS48  
 LELS,GM4,CL3,HP0.056723,VP0.083501  
 GQ,DCROVER,SV10,DR1,PD2.028451,DH1.139833,DV1.677914,RM27.620453,NE7,RH,RV,WS1795,FS  
 248582.6,WE1795,ES248588.6,IM1  
 GS,PN6101,N 1075788.207,E 562216.497,EL235.103,--XS48 LELS  
 EP,TM17:04:24,LA41.471050453,LN-74.143222431,HT139.462,RH0.055147,RV0.080922,DH1.155  
 806,DV1.696016,GM4,CL3

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BL,DCROVER,PN6102,DX-45294.471864,DY-50996.383478,DZ-40868.560112,--XS48  
LELS,GM4,CL3,HP0.055147,VP0.080922  
GQ,DCROVER,SV10,DR1,PD2.052403,DH1.155806,DV1.696016,RM23.861775,NE8,RH,RV,WS1795,FS  
248672.4,WE1795,ES248679.8,IM1  
GS,PN6102,N 1075762.914,E 562404.045,EL236.305,--XS48 LELS  
EP,TM17:08:52,LA41.471044331,LN-74.143142153,HT139.082,RH0.045739,RV0.062744,DH0.979  
807,DV1.344063,GM4,CL3  
BL,DCROVER,PN6103,DX-45234.895813,DY-50983.568864,DZ-40873.434215,--SECT48  
LELS,GM4,CL3,HP0.045739,VP0.062744  
GQ,DCROVER,SV10,DR1,PD1.663288,DH0.979807,DV1.344063,RM27.101923,NE13,RH,RV,WS1795,F  
S248935,WE1795,ES248947,IM1  
GS,PN6103,N 1075756.900,E 562464.874,EL235.926,--SECT48 LELS  
CF,EL235.926,GD0.000  
DE,PN216,N 1075757.700,E 562463.800,EL0.000,--SECT48  
SD,ND0.800,ED-1.074,LD-235.926  
SP,PN217,N 1075950.900,E 562775.400,EL0.000,--SECT48  
--New base station detected  
--17:15:25,Get base reference position at  
ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCGETBASE,RA0.00000,RE1,FI  
AH,DCBASE,MA0.000,ME1,RA0.000  
BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
AH,DCROVER,MA6.562,ME2,RA6.775  
--17:18:14,Set ROVER receiver with base reference  
position:LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCROVER,RA6.77459,RE1,FI  
EQ,DCROVER,RXTrimble R8-3,RS5035448163,AN186,AI0,ATR8 GNSS/SPS88x  
Internal,TS5035448163,TA0.0,HO0.0,VO0.21293\*109750611  
AH,DCROVER,MA6.562,ME2,RA6.775  
EP,TM17:18:14,LA41.471063085,LN-74.143031711,HT137.968,RH0.036396,RV0.046704,DH1.096  
606,DV1.407176,GM4,CL1  
BL,DCROVER,PN75,DX-45158.032681,DY-50947.872516,DZ-40860.022241,--GPS,GM4,CL1,HP0.03  
6396,VP0.046704  
GQ,DCROVER,SV9,DR1,PD1.784009,DH1.096606,DV1.407176,RM28.048230,NE104,RH,RV,WS1795,F  
S249399.2,WE1795,ES249509,IM1  
CV,DCROVER,SV9,SC0.010116,XX0.0000677554,XY-0.0000386842,XZ0.0000790966,YY0.00018559  
73,YZ-0.0001379851,ZZ0.0002894996  
GS,PN75,N 1075776.132,E 562548.477,EL234.813,--GPS  
EP,TM17:21:33,LA41.470870173,LN-74.143001633,HT139.640,RH0.035771,RV0.049510,DH1.029  
932,DV1.425540,GM4,CL1  
BL,DCROVER,PN76,DX-45100.426560,DY-51068.112480,DZ-41004.508716,--GPS,GM4,CL1,HP0.03  
5771,VP0.049510  
GQ,DCROVER,SV10,DR1,PD1.758671,DH1.029932,DV1.425540,RM23.932183,NE69,RH,RV,WS1795,F  
S249639.2,WE1795,ES249708.2,IM1  
CV,DCROVER,SV10,SC0.010586,XX0.0000698463,XY-0.0000568408,XZ0.0000777093,YY0.0001824  
263,YZ-0.0001731464,ZZ0.0003254045  
GS,PN76,N 1075580.951,E 562571.848,EL236.488,--GPS  
--17:44:37,Get base reference position at  
ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCGETBASE,RA0.00000,RE1,FI  
AH,DCBASE,MA0.000,ME1,RA0.000  
BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
AH,DCROVER,MA6.562,ME2,RA6.775  
--17:46:50,Set ROVER receiver with base reference  
position:LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCROVER,RA6.77459,RE1,FI  
EQ,DCROVER,RXTrimble R8-3,RS5035448163,AN186,AI0,ATR8 GNSS/SPS88x  
Internal,TS5035448163,TA0.0,HO0.0,VO0.21293\*109750611  
AH,DCROVER,MA6.562,ME2,RA6.775  
EP,TM17:46:50,LA41.470870180,LN-74.143001541,HT139.821,RH0.049490,RV0.064985,DH1.106  
141,DV1.458986,GM4,CL1  
BL,DCROVER,PN76,DX-45100.323596,DY-51068.218549,DZ-41004.383126,--GPS,GM4,CL1,HP0.04  
9490,VP0.064985

GQ,DCROVER,SV10,DR1,PD1.830898,DH1.106141,DV1.458986,RM21.645919,NE74,RH,RV,WS1795,F  
S251111.4,WE1795,ES251185.6,IM1  
CV,DCROVER,SV10,SC0.013647,XX0.0000624478,XY-0.0000310781,XZ0.0000284104,YY0.0004459  
071,YZ-0.0003438455,ZZ0.0003985451  
GS,PN76,N 1075580.958,E 562571.918,EL236.668,--GPS  
EP,TM17:50:30,LA41.471063047,LN-74.143031687,HT138.182,RH0.044579,RV0.064313,DH1.180  
725,DV1.708049,GM4,CL1  
BL,DCROVER,PN75,DX-45157.964812,DY-50948.046475,DZ-40859.907972,--GPS,GM4,CL1,HP0.04  
4579,VP0.064313  
GQ,DCROVER,SV9,DR1,PD2.076425,DH1.180725,DV1.708049,RM25.671337,NE85,RH,RV,WS1795,FS  
251353.8,WE1795,ES251439.4,IM1  
CV,DCROVER,SV9,SC0.011550,XX0.0000590707,XY-0.0000423113,XZ0.0000320871,YY0.00024206  
91,YZ-0.0001898076,ZZ0.0002677499  
GS,PN75,N 1075776.094,E 562548.496,EL235.027,--GPS  
OC,OP75,N 1075776.1167,E 562548.4846,EL234.8867,--GPS  
BK,OP75,BP76,BS173.09597,BC0.00000  
LS,HI5.0500,HR5.2500  
SS,OP75,FP76,AR0.00000,ZE89.25348,SD196.602,--GPS  
LS,HI5.0500,HR5.3000  
SS,OP75,FP6104,AR269.40529,ZE93.38067,SD12.192,--XS48 LELB  
SS,OP75,FP6105,AR251.35014,ZE96.53246,SD31.094,--XS48 LELB  
LS,HI5.0500,HR21.5700  
SS,OP75,FP6106,AR252.41132,ZE88.33395,SD47.748,--XS48 LAWE  
SS,OP75,FP6107,AR249.55100,ZE90.16586,SD54.479,--XS48 RB  
SS,OP75,FP6108,AR249.20320,ZE89.49308,SD81.737,--XS48 RB  
SS,OP75,FP6109,AR249.29526,ZE89.59328,SD119.907,--XS48 RB  
SS,OP75,FP6110,AR249.53223,ZE89.50083,SD147.842,--XS48 RB  
SS,OP75,FP6111,AR249.49585,ZE89.31059,SD166.733,--XS48 LAWE  
LS,HI5.0500,HR17.5700  
SS,OP75,FP6112,AR250.17497,ZE90.36024,SD175.432,--XS48 LELB  
SP,PN4001,N 1075957.677,E 562792.382,EL265.527,--SECT48  
LS,HI5.0500,HR5.2500  
SS,OP75,FP6113,AR359.59459,ZE89.25361,SD196.600,--GPS76  
--09:00:45,Get base reference position at  
ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCGETBASE,RA0.00000,RE1,FI  
AH,DCBASE,MA0.000,ME1,RA0.000  
BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
--New base station detected  
--09:00:58,Get base reference position at  
ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCGETBASE,RA0.00000,RE1,FI  
AH,DCBASE,MA0.000,ME1,RA0.000  
BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
--09:12:30,Get base reference position at  
ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCGETBASE,RA0.00000,RE1,FI  
AH,DCBASE,MA0.000,ME1,RA0.000  
BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
--New base station detected  
--09:13:22,Get base reference position at  
ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCGETBASE,RA0.00000,RE1,FI  
AH,DCBASE,MA0.000,ME1,RA0.000  
BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
AH,DCROVER,MA6.562,ME2,RA6.775  
--09:17:38,Set ROVER receiver with base reference  
position:LA41.561297153,LN-74.015221844,HT99.55705  
RX,DCROVER,RA6.77459,RE1,FI  
EQ,DCROVER,RXTrimble R8-3,RS5035448163,AN186,AI0,ATR8 GNSS/SPS88x  
Internal,TS5035448163,TA0.0,HO0.0,VO0.21293\*109750611  
AH,DCROVER,MA6.562,ME2,RA6.775  
EP,TM09:17:38,LA41.473135381,LN-74.140005915,HT132.776,RH0.026315,RV0.063636,DH1.444

324,DV2.724724,GM4,CL1  
 BL,DCROVER,PN77,DX-43332.822231,DY-48976.195288,DZ-39299.481343,--GPS,GM4,CL1,HP0.02  
 6315,VP0.063636  
 GQ,DCROVER,SV5,DR1,PD2.965141,DH1.444324,DV2.724724,RM34.635050,NE216,RH,RV,WS1795,F  
 S306845.4,WE1795,ES307074.6,IM1  
 CV,DCROVER,SV6,SC0.008123,XX0.0000490869,XY-0.0000770299,XZ0.0000540681,YY0.00036326  
 48,YZ-0.0002412709,ZZ0.0002552950  
 GS,PN77,N 1077880.542,E 564834.015,EL229.637,--GPS  
 EP,TM09:23:25,LA41.472956557,LN-74.135569988,HT135.313,RH0.041025,RV0.063611,DH1.121  
 188,DV1.763404,GM4,CL1  
 BL,DCROVER,PN78,DX-42981.733094,DY-49004.375386,DZ-39432.746471,--GPS,GM4,CL1,HP0.04  
 1025,VP0.063611  
 GQ,DCROVER,SV7,DR1,PD2.089655,DH1.121188,DV1.763404,RM27.658676,NE104,RH,RV,WS1795,F  
 S307314.4,WE1795,ES307418.8,IM1  
 CV,DCROVER,SV7,SC0.011233,XX0.0000657437,XY-0.0000765632,XZ0.0000548733,YY0.00030830  
 36,YZ-0.0002226746,ZZ0.0003842391  
 GS,PN78,N 1077700.578,E 565164.764,EL232.182,--GPS  
 EP,TM09:44:23,LA41.473135351,LN-74.140005926,HT132.968,RH0.032144,RV0.058254,DH1.229  
 448,DV1.775597,GM4,CL1  
 BL,DCROVER,PN77,DX-43332.785257,DY-48976.354696,DZ-39299.374999,--GPS,GM4,CL1,HP0.03  
 2144,VP0.058254  
 GQ,DCROVER,SV7,DR1,PD2.062824,DH1.229448,DV1.775597,RM25.634726,NE336,RH,RV,WS1795,F  
 S308335.6,WE1795,ES308676.6,IM1  
 CV,DCROVER,SV7,SC0.010000,XX0.0000437239,XY-0.0000607731,XZ0.0000416617,YY0.00020542  
 07,YZ-0.0001116773,ZZ0.0001621227  
 GS,PN77,N 1077880.513,E 564834.007,EL229.829,--GPS  
 EP,TM09:51:38,LA41.472956731,LN-74.135569931,HT135.626,RH0.032607,RV0.046141,DH1.038  
 796,DV1.487668,GM4,CL1  
 BL,DCROVER,PN78,DX-42981.659956,DY-49004.476159,DZ-39432.406657,--GPS,GM4,CL1,HP0.03  
 2607,VP0.046141  
 GQ,DCROVER,SV7,DR1,PD1.814457,DH1.038796,DV1.487668,RM19.756007,NE226,RH,RV,WS1795,F  
 S308880,WE1795,ES309110.6,IM1  
 CV,DCROVER,SV7,SC0.009624,XX0.0000526248,XY-0.0000620860,XZ0.0000504141,YY0.00020826  
 13,YZ-0.0001139511,ZZ0.0002161082  
 GS,PN78,N 1077700.753,E 565164.806,EL232.495,--GPS  
 SP,PN57,N 1078231.841,E 566181.604,EL233.393,--GPS  
 OC,OP77,N 1077880.5303,E 564834.0116,EL229.7416,--GPS  
 BK,OP77,BP78,BS118.31589,BC0.00000  
 LS,HI5.0800,HR5.0700  
 SS,OP77,FP78,AR0.00000,ZE89.36095,SD376.585,--GPS  
 SP,PN194,N 1077838.400,E 564912.000,EL0.000,--SECT42  
 SP,PN193,N 1079237.800,E 565081.900,EL0.000,--SECT42  
 LS,HI5.0800,HR21.5700  
 SP,PN6114,N 1078157.011,E 564943.033,EL221.221,--XS42 RB  
 SK,OP77,FP6114,AR262.59142,ZE88.27523,SD297.335,--XS42 RB  
 SP,PN6115,N 1078147.406,E 564945.269,EL223.378,--XS42 RB  
 SK,OP77,FP6115,AR264.05520,ZE87.59408,SD289.344,--XS42 RB  
 SP,PN6116,N 1078144.745,E 564946.816,EL224.882,--XS48 LAWE  
 SK,OP77,FP6116,AR264.35119,ZE87.40561,SD287.552,--XS48 LAWE  
 LS,HI5.0800,HR17.5700  
 SP,PN6117,N 1078138.711,E 564948.553,EL225.754,--XS48 LELB  
 SK,OP77,FP6117,AR265.23288,ZE88.16349,SD282.604,--XS48 LELB  
 LS,HI5.0800,HR9.4300  
 SP,PN6118,N 1078081.510,E 564944.630,EL227.557,--XS42 LELB  
 SK,OP77,FP6118,AR270.17427,ZE89.27341,SD229.444,--XS42 LELB  
 SP,PN6119,N 1078054.027,E 564933.944,EL229.332,--XS42 LELB  
 SK,OP77,FP6119,AR271.24308,ZE88.52226,SD200.278,--XS42 LELB  
 SP,PN6120,N 1077973.824,E 564929.850,EL228.928,--XS42 LELS  
 SK,OP77,FP6120,AR287.14161,ZE88.29087,SD133.809,--XS42 LELS  
 LS,HI5.0800,HR5.0700  
 SS,OP77,FP6121,AR359.59452,ZE89.36141,SD376.579,--GPS78  
 SP,PN60,N 1079065.927,E 562928.706,EL241.668,--GPS  
 SP,PN59,N 1079162.313,E 563504.150,EL238.417,--GPS

OC,OP60,N 1079065.9270,E 562928.7060,EL241.6680,--GPS  
 BK,OP60,BP59,BS80.29287,BC0.00000  
 LS,HI4.8800,HR6.8700  
 SS,OP60,FP59,AR0.00000,ZE90.07333,SD583.504,--GPS  
 LS,HI4.8800,HR5.3000  
 SP,PN6122,N 1078931.941,E 562872.106,EL240.083,--SECT60 LELS  
 CF,EL240.083,GD0.000  
 DE,PN220,N 1078931.100,E 562865.500,EL0.000,--SECT60  
 SD,ND-0.841,ED-6.606,LD-240.083  
 SK,OP60,FP6122,AR122.24344,ZE90.27324,SD145.470,--SECT60 LELS  
 SP,PN220,N 1078931.100,E 562865.500,EL0.000,--SECT60  
 SP,PN219,N 1079961.100,E 563400.500,EL0.000,--SECT60  
 LS,HI4.8800,HR9.4300  
 SP,PN6123,N 1079220.215,E 563019.406,EL238.094,--XS60 LAWE  
 SK,OP60,FP6123,AR309.57301,ZE89.41162,SD178.993,--XS60 LAWE  
 SP,PN6124,N 1079228.303,E 563022.031,EL236.724,--XS60 RB  
 SK,OP60,FP6124,AR309.23482,ZE90.07142,SD187.304,--XS60 RB  
 SP,PN6125,N 1079238.471,E 563029.749,EL237.088,--XS60 RB  
 SK,OP60,FP6125,AR309.51444,ZE90.00316,SD199.973,--XS60 RB  
 SP,PN6126,N 1079250.467,E 563036.976,EL237.417,--XS60 RB  
 SK,OP60,FP6126,AR309.54320,ZE89.55125,SD213.978,--XS60 RB  
 SP,PN6127,N 1079260.489,E 563038.260,EL238.152,--XS60 LAWE  
 SK,OP60,FP6127,AR308.53302,ZE89.44061,SD223.311,--XS60 LAWE  
 SP,PN6128,N 1079270.620,E 563042.783,EL239.357,--XS60 LELB  
 SK,OP60,FP6128,AR308.38239,ZE89.27109,SD234.369,--XS60 LELB  
 LS,HI4.8800,HR5.3000  
 SP,PN6129,N 1079304.270,E 563059.895,EL240.497,--XS60 LELS  
 SK,OP60,FP6129,AR308.20167,ZE90.09306,SD272.091,--XS60 LELS  
 SP,PN6130,N 1079342.894,E 563080.427,EL240.391,--XS60 LELS  
 SK,OP60,FP6130,AR308.13203,ZE90.09209,SD315.834,--XS60 LELS  
 SP,PN6131,N 1079428.663,E 563126.804,EL240.484,--XS60 LELS  
 SK,OP60,FP6131,AR308.08549,ZE90.06228,SD413.346,--XS60 LELS  
 SP,PN6132,N 1079550.579,E 563194.604,EL240.689,--XS60 LELS  
 SK,OP60,FP6132,AR308.15342,ZE90.03309,SD552.857,--XS60 LELS  
 SP,PN6133,N 1079586.902,E 563214.430,EL239.257,--XS60 LELB  
 SK,OP60,FP6133,AR308.15031,ZE90.11337,SD594.246,--XS60 LELB  
 LS,HI4.8800,HR4.0000  
 SP,PN6134,N 1079588.807,E 563215.228,EL241.330,--XS60 LELB  
 SK,OP60,FP6134,AR308.13482,ZE90.07040,SD596.298,--XS60 LELB  
 LS,HI4.8800,HR3.0000  
 SP,PN6135,N 1079623.269,E 563234.276,EL241.906,--XS60 LELB  
 SK,OP60,FP6135,AR308.14348,ZE90.08554,SD635.679,--XS60 LELB  
 LS,HI4.8800,HR5.3000  
 SP,PN6136,N 1079642.824,E 563245.034,EL240.251,--XS60 LELB  
 SK,OP60,FP6136,AR308.14450,ZE90.05153,SD657.999,--XS60 LELB  
 BK,OP60,BP59,BS80.29234,BC0.00000  
 LS,HI4.8800,HR6.8700  
 SS,OP60,FP59,AR0.00000,ZE90.07367,SD583.506,--GPS  
 BK,OP60,BP59,BS80.29234,BC0.00000  
 SS,OP60,FP59,AR0.00000,ZE90.07354,SD583.506,--GPS  
 BK,OP60,BP59,BS80.29234,BC0.00000  
 SS,OP60,FP59,AR0.00000,ZE90.07360,SD583.510,--GPS  
 LS,HI4.8800,HR3.8600  
 SS,OP60,FP79,AR308.13415,ZE90.04260,SD754.869,--CB  
 SS,OP60,FP79,AR308.13416,ZE90.04253,SD754.868,--CB  
 SS,OP60,FP79,AR308.13416,ZE90.04250,SD754.866,--CB  
 LS,HI4.8800,HR6.8700  
 SS,OP60,FP59,AR180.00106,ZE269.52339,SD583.505,--GPS  
 SS,OP60,FP59,AR180.00096,ZE269.52320,SD583.509,--GPS  
 SS,OP60,FP59,AR180.00114,ZE269.52342,SD583.508,--GPS  
 LS,HI4.8800,HR3.8600  
 SS,OP60,FP79,AR128.13458,ZE269.55470,SD754.865,--CB  
 SS,OP60,FP79,AR128.13482,ZE269.55466,SD754.867,--CB

SS,OP60,FP79,AR128.13479,ZE269.55473,SD754.865,--CB  
BK,OP60,BP59,BS80.29261,BC0.00000  
LS,HI4.8800,HR6.8700  
SS,OP60,FP59,AR0.00000,ZE90.07343,SD583.511,--GPS  
BK,OP60,BP59,BS80.29261,BC0.00000  
SS,OP60,FP59,AR0.00000,ZE90.07326,SD583.510,--GPS  
BK,OP60,BP59,BS80.29261,BC0.00000  
SS,OP60,FP59,AR0.00000,ZE90.07325,SD583.510,--GPS  
LS,HI4.8800,HR3.8600  
SS,OP60,FP79,AR308.13405,ZE90.04189,SD754.864,--CB  
SS,OP60,FP79,AR308.13399,ZE90.04196,SD754.867,--CB  
SS,OP60,FP79,AR308.13389,ZE90.04219,SD754.866,--CB  
LS,HI4.8800,HR6.8700  
SS,OP60,FP59,AR180.00053,ZE269.52326,SD583.506,--GPS  
SS,OP60,FP59,AR180.00072,ZE269.52366,SD583.504,--GPS  
SS,OP60,FP59,AR180.00065,ZE269.52361,SD583.507,--GPS  
LS,HI4.8800,HR3.8600  
SS,OP60,FP79,AR128.13448,ZE269.55447,SD754.866,--CB  
SS,OP60,FP79,AR128.13445,ZE269.55449,SD754.869,--CB  
SS,OP60,FP79,AR128.13442,ZE269.55438,SD754.867,--CB  
LS,HI4.8800,HR6.8700  
LS,HI4.8800,HR3.8600  
--Round: 1, PN: 59, dHz: -0°00'00", dVt: 0°00'06", dSD: -0.001  
--Round: 1, PN: 59, dHz: -0°00'00", dVt: 0°00'05", dSD: -0.002  
--Round: 1, PN: 59, dHz: -0°00'00", dVt: 0°00'06", dSD: 0.002  
--Round: 1, PN: 79, dHz: 0°00'02", dVt: 0°00'07", dSD: 0.002  
--Round: 1, PN: 79, dHz: 0°00'02", dVt: 0°00'07", dSD: 0.001  
--Round: 1, PN: 79, dHz: 0°00'02", dVt: 0°00'06", dSD: 0.000  
--Round: 1, PN: 59, dHz: -0°00'00", dVt: -0°00'04", dSD: -0.002  
--Round: 1, PN: 59, dHz: -0°00'01", dVt: -0°00'02", dSD: 0.002  
--Round: 1, PN: 59, dHz: 0°00'01", dVt: -0°00'04", dSD: 0.000  
--Round: 1, PN: 79, dHz: -0°00'04", dVt: -0°00'06", dSD: -0.002  
--Round: 1, PN: 79, dHz: -0°00'02", dVt: -0°00'05", dSD: 0.001  
--Round: 1, PN: 79, dHz: -0°00'02", dVt: -0°00'06", dSD: -0.001  
--Round: 2, PN: 59, dHz: -0°00'00", dVt: 0°00'04", dSD: 0.003  
--Round: 2, PN: 59, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.002  
--Round: 2, PN: 59, dHz: -0°00'00", dVt: 0°00'02", dSD: 0.002  
--Round: 2, PN: 79, dHz: 0°00'01", dVt: 0°00'00", dSD: -0.002  
--Round: 2, PN: 79, dHz: 0°00'01", dVt: 0°00'01", dSD: 0.000  
--Round: 2, PN: 79, dHz: -0°00'00", dVt: 0°00'03", dSD: 0.000  
--Round: 2, PN: 59, dHz: -0°00'00", dVt: -0°00'03", dSD: -0.002  
--Round: 2, PN: 59, dHz: 0°00'02", dVt: -0°00'07", dSD: -0.004  
--Round: 2, PN: 59, dHz: 0°00'01", dVt: -0°00'06", dSD: 0.000  
--Round: 2, PN: 79, dHz: 0°00'00", dVt: -0°00'03", dSD: -0.001  
--Round: 2, PN: 79, dHz: -0°00'00", dVt: -0°00'03", dSD: 0.002  
--Round: 2, PN: 79, dHz: -0°00'00", dVt: -0°00'02", dSD: 0.001  
OC,OP79,N 1079727.8685,E 563291.3921,EL241.7535,--CB  
BK,OP79,BP60,BS208.43080,BC0.00000  
LS,HI4.4300,HR4.0000  
SS,OP79,FP60,AR0.00000,ZE90.02238,SD754.865,--GPS  
LS,HI4.4300,HR5.3000  
SP,PN6137,N 1079728.650,E 563271.604,EL241.311,--XS60 LELB  
SK,OP79,FP6137,AR63.32295,ZE88.45517,SD19.810,--XS60 LELB  
SP,PN6138,N 1079735.039,E 563272.322,EL238.223,--XS60 LAWE  
SK,OP79,FP6138,AR81.53187,ZE97.26250,SD20.549,--XS60 LAWE  
SP,PN6139,N 1079743.533,E 563277.917,EL237.783,--XS60 RB  
SK,OP79,FP6139,AR110.34415,ZE98.31567,SD20.896,--XS60 RB  
SP,PN6140,N 1079754.098,E 563280.906,EL238.232,--XS60 LAWE  
SK,OP79,FP6140,AR129.29213,ZE95.21451,SD28.375,--XS60 LAWE  
SP,PN6141,N 1079758.994,E 563283.190,EL240.461,--XS60 LELB  
SK,OP79,FP6141,AR136.31039,ZE90.45096,SD32.194,--XS60 LELB  
LS,HI4.4300,HR16.5700  
SP,PN6142,N 1079863.980,E 563359.758,EL239.131,--XS60 LELS



SK,OP79,FP6142,AR177.57010,ZE86.25309,SD152.629,--XS60 LELS  
 LS,HI4.4300,HR19.6700  
 OF,AR185.51404,ZE86.08048,SD198.247  
 OF,OL-42.000,--Right Angle Offset  
 OF,HD56.000,--Horizontal Distance Offset  
 SS,OP79,FP6143,AR176.27528,ZE87.01345,SD257.595,--SECT60 LELS  
 SP,PN218,N 1080310.600,E 563732.900,EL0.000,--SECT60  
 LS,HI4.4300,HR24.5000  
 OF,AR186.10576,ZE85.51123,SD260.386  
 OF,OL-43.000,--Right Angle Offset  
 SS,OP79,FP6144,AR176.46528,ZE85.54322,SD263.913,--XS60 LELS  
 SP,PN6145,N 1080010.104,E 563469.023,EL240.205,--XS60 LELS  
 SK,OP79,FP6145,AR183.27584,ZE86.49186,SD334.028,--XS60 LELS  
 LS,HI4.4300,HR25.5000  
 SP,PN6146,N 1080097.989,E 563523.848,EL239.966,--XS60 LELS  
 SK,OP79,FP6146,AR183.24437,ZE87.28289,SD437.533,--XS60 LELS  
 SP,PN6147,N 1080168.884,E 563568.714,EL245.344,--XS60 LELS  
 SK,OP79,FP6147,AR183.26378,ZE87.17268,SD521.598,--XS60 LELS  
 LS,HI4.4300,HR27.5000  
 OF,AR183.23530,ZE87.19061,SD519.789  
 OF,HD130.000,--Horizontal Distance Offset  
 SS,OP79,FP6148,AR183.23530,ZE87.51182,SD649.675,--XS60 LELS  
 LS,HI4.4300,HR17.5700  
 OF,AR183.31417,ZE87.17438,SD520.934  
 OF,HD160.000,--Horizontal Distance Offset  
 SS,OP79,FP6149,AR183.31417,ZE87.55524,SD680.798,--XS60 LELB  
 LS,HI4.4300,HR4.0000  
 SS,OP79,FP6150,AR0.00093,ZE90.02199,SD754.863,--GPS60  
 --11:24:15,Get base reference position at  
 ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
 RX,DCGETBASE,RA0.00000,RE1,FI  
 AH,DCBASE,MA0.000,ME1,RA0.000  
 BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
 --New base station detected  
 --11:24:26,Get base reference position at  
 ROVER:,LA41.561297153,LN-74.015221844,HT99.55705  
 RX,DCGETBASE,RA0.00000,RE1,FI  
 AH,DCBASE,MA0.000,ME1,RA0.000  
 BP,PNRTCM0014,LA41.561297153,LN-74.015221844,HT99.55705,SG1  
 SP,PN66,N 1078848.431,E 564251.139,EL234.057,--CB  
 --Modified 3:17:34 PM 6/6/2014  
 --Old values GPS65  
 OC,OP64,N 1077604.4102,E 567355.9545,EL235.2024,--GPS64  
 BK,OP64,BP65,BS26.17353,BC0.00000  
 LS,HI4.9400,HR4.9100  
 SS,OP64,FP65,AR0.00000,ZE87.05428,SD226.359,--GPS65  
 BK,OP64,BP65,BS26.17330,BC0.00000  
 SS,OP64,FP65,AR0.00000,ZE87.05466,SD226.358,--GPS65  
 BK,OP64,BP65,BS26.17330,BC0.00000  
 SS,OP64,FP65,AR0.00000,ZE87.05469,SD226.355,--GPS65  
 LS,HI4.9400,HR4.4600  
 SS,OP64,FP80,AR137.47322,ZE90.08370,SD572.769,--CB  
 SS,OP64,FP80,AR137.47320,ZE90.08368,SD572.770,--CB  
 SS,OP64,FP80,AR137.47320,ZE90.08368,SD572.769,--CB  
 LS,HI4.9400,HR4.9100  
 SS,OP64,FP65,AR180.00046,ZE272.54097,SD226.355,--GPS65  
 SS,OP64,FP65,AR180.00042,ZE272.54098,SD226.354,--GPS65  
 SS,OP64,FP65,AR180.00033,ZE272.54105,SD226.354,--GPS65  
 LS,HI4.9400,HR4.4600  
 SS,OP64,FP80,AR317.47320,ZE269.51229,SD572.768,--CB  
 SS,OP64,FP80,AR317.47320,ZE269.51229,SD572.766,--CB  
 SS,OP64,FP80,AR317.47320,ZE269.51229,SD572.769,--CB  
 BK,OP64,BP65,BS26.17330,BC0.00000

LS,HI4.9400,HR4.9100  
 SS,OP64,FP65,AR0.00000,ZE87.05429,SD226.352,--GPS65  
 BK,OP64,BP65,BS26.17330,BC0.00000  
 SS,OP64,FP65,AR0.00000,ZE87.05468,SD226.354,--GPS65  
 BK,OP64,BP65,BS26.17330,BC0.00000  
 SS,OP64,FP65,AR0.00000,ZE87.05448,SD226.353,--GPS65  
 LS,HI4.9400,HR4.4600  
 SS,OP64,FP80,AR137.47322,ZE90.08368,SD572.770,--CB  
 SS,OP64,FP80,AR137.47322,ZE90.08368,SD572.765,--CB  
 SS,OP64,FP80,AR137.47322,ZE90.08368,SD572.765,--CB  
 LS,HI4.9400,HR4.9100  
 SS,OP64,FP65,AR180.00047,ZE272.54079,SD226.353,--GPS65  
 SS,OP64,FP65,AR180.00058,ZE272.54129,SD226.353,--GPS65  
 SS,OP64,FP65,AR180.00063,ZE272.54094,SD226.354,--GPS65  
 LS,HI4.9400,HR4.4600  
 SS,OP64,FP80,AR317.47322,ZE269.51229,SD572.766,--CB  
 SS,OP64,FP80,AR317.47322,ZE269.51229,SD572.767,--CB  
 SS,OP64,FP80,AR317.47322,ZE269.51229,SD572.769,--CB  
 LS,HI4.9400,HR4.9100  
 LS,HI4.9400,HR4.4600  
 --Round: 1, PN: 65, dHz: -0°00'00", dVt: -0°00'05", dSD: 0.005  
 --Round: 1, PN: 65, dHz: -0°00'00", dVt: -0°00'01", dSD: 0.003  
 --Round: 1, PN: 65, dHz: -0°00'00", dVt: -0°00'01", dSD: 0.001  
 --Round: 1, PN: 80, dHz: 0°00'02", dVt: -0°00'00", dSD: 0.001  
 --Round: 1, PN: 80, dHz: 0°00'02", dVt: -0°00'00", dSD: 0.002  
 --Round: 1, PN: 80, dHz: 0°00'02", dVt: -0°00'00", dSD: 0.002  
 --Round: 1, PN: 65, dHz: -0°00'00", dVt: 0°00'03", dSD: 0.000  
 --Round: 1, PN: 65, dHz: -0°00'01", dVt: 0°00'03", dSD: 0.000  
 --Round: 1, PN: 65, dHz: -0°00'01", dVt: 0°00'02", dSD: 0.000  
 --Round: 1, PN: 80, dHz: -0°00'02", dVt: 0°00'00", dSD: 0.000  
 --Round: 1, PN: 80, dHz: -0°00'02", dVt: 0°00'00", dSD: -0.002  
 --Round: 1, PN: 80, dHz: -0°00'02", dVt: 0°00'00", dSD: 0.001  
 --Round: 2, PN: 65, dHz: -0°00'00", dVt: -0°00'05", dSD: -0.002  
 --Round: 2, PN: 65, dHz: -0°00'00", dVt: -0°00'01", dSD: -0.001  
 --Round: 2, PN: 65, dHz: -0°00'00", dVt: -0°00'03", dSD: -0.001  
 --Round: 2, PN: 80, dHz: 0°00'02", dVt: -0°00'00", dSD: 0.002  
 --Round: 2, PN: 80, dHz: 0°00'02", dVt: -0°00'00", dSD: -0.003  
 --Round: 2, PN: 80, dHz: 0°00'02", dVt: -0°00'00", dSD: -0.003  
 --Round: 2, PN: 65, dHz: -0°00'00", dVt: 0°00'05", dSD: -0.002  
 --Round: 2, PN: 65, dHz: 0°00'01", dVt: -0°00'00", dSD: -0.001  
 --Round: 2, PN: 65, dHz: 0°00'01", dVt: 0°00'03", dSD: -0.001  
 --Round: 2, PN: 80, dHz: -0°00'02", dVt: 0°00'00", dSD: -0.001  
 --Round: 2, PN: 80, dHz: -0°00'02", dVt: 0°00'00", dSD: -0.001  
 --Round: 2, PN: 80, dHz: -0°00'02", dVt: 0°00'00", dSD: 0.001  
 SP,PN134,N 1076675.600,E 566551.400,EL0.000,--SECT24  
 SP,PN133,N 1077865.300,E 566728.300,EL0.000,--SECT24  
 LS,HI4.9400,HR9.4300  
 SP,PN6151,N 1077287.644,E 566639.024,EL214.309,--XS24 RB  
 SK,OP64,FP6151,AR219.52092,ZE91.11589,SD784.042,--XS24 RB  
 SP,PN6152,N 1077275.425,E 566633.318,EL214.033,--XS24 RB  
 SK,OP64,FP6152,AR219.13448,ZE91.12152,SD794.254,--XS24 RB  
 SP,PN6153,N 1077289.443,E 566634.188,EL214.704,--XS24 RB  
 SK,OP64,FP6153,AR220.07523,ZE91.09552,SD787.737,--XS24 RB  
 LS,HI4.9400,HR2.3000  
 OF,AR219.59167,ZE91.10317,SD784.011  
 OF,OL12.000,--Right Angle Offset  
 OF,HD7.130,--Horizontal Distance Offset  
 SS,OP64,FP6154,AR220.51257,ZE91.09531,SD791.231,--XS24 LAWE  
 LS,HI4.9400,HR1.3000  
 OF,AR219.41367,ZE91.26402,SD761.098  
 OF,OL25.000,--Right Angle Offset  
 SS,OP64,FP6155,AR221.34317,ZE91.26374,SD761.509,--XS24 LELB  
 SP,PN131,N 1077303.700,E 567010.300,EL0.000,--SECT23

SP,PN130,N 1077496.600,E 566857.300,EL0.000,--SECT23  
 LS,HI4.9400,HR5.3000  
 SP,PN6156,N 1077439.476,E 566900.227,EL215.429,--XS23 RB  
 SK,OP64,FP6156,AR223.48393,ZE92.17388,SD485.092,--XS23 RB  
 SP,PN6157,N 1077417.076,E 566919.147,EL214.508,--XS23 RB  
 SK,OP64,FP6157,AR220.29374,ZE92.27003,SD475.766,--XS23 RB  
 LS,HI4.9400,HR9.4300  
 SP,PN6158,N 1077383.806,E 566944.177,EL213.092,--XS23 RB  
 SK,OP64,FP6158,AR215.31385,ZE92.09378,SD467.526,--XS23 RB  
 LS,HI4.9400,HR6.0000  
 OF,AR214.54583,ZE92.06489,SD465.334  
 OF,OL-10.000,--Right Angle Offset  
 SS,OP64,FP6159,AR213.41033,ZE92.06472,SD465.442,--XS23 LAWE  
 LS,HI4.9400,HR0.0000  
 SP,PN6160,N 1077451.589,E 566888.878,EL217.037,--XS23 LAWE  
 SK,OP64,FP6160,AR225.35219,ZE92.41317,SD492.034,--XS23 LAWE  
 LS,HI4.9400,HR6.4000  
 SP,PN6161,N 1077462.158,E 566878.286,EL222.712,--XS23 LELB  
 SK,OP64,FP6161,AR227.07228,ZE91.16060,SD498.572,--XS23 LELB  
 SP,PN129,N 1077822.100,E 566896.400,EL0.000,--SECT23  
 LS,HI4.9400,HR9.4300  
 SP,PN6162,N 1077522.522,E 566859.133,EL221.284,--XS23 LELS  
 SK,OP64,FP6162,AR234.20503,ZE91.04237,SD503.663,--XS23 LELS  
 LS,HI4.9400,HR5.3000  
 SP,PN6163,N 1077585.015,E 566868.662,EL220.330,--XS23 LELS  
 SK,OP64,FP6163,AR241.25392,ZE91.42178,SD487.942,--XS23 LELS  
 SP,PN6164,N 1077621.632,E 566873.066,EL219.630,--XS23 LELB  
 SK,OP64,FP6164,AR245.44579,ZE91.48130,SD483.483,--XS23 LELB  
 LS,HI4.9400,HR0.0000  
 OF,AR245.45050,ZE91.19165,SD484.536  
 OF,OL20.000,--Right Angle Offset  
 SS,OP64,FP6165,AR248.06563,ZE91.19125,SD484.949,--XS23 LELB  
 SP,PN126,N 1077424.700,E 567116.400,EL0.000,--SECT22  
 SP,PN125,N 1077675.500,E 567413.400,EL0.000,--SECT22  
 LS,HI4.9400,HR13.5500  
 SP,PN6166,N 1077565.016,E 567285.745,EL207.337,--XS22 RB  
 SK,OP64,FP6166,AR214.24374,ZE103.27002,SD82.785,--XS22 RB  
 SP,PN6167,N 1077542.416,E 567256.289,EL207.455,--XS22 RB  
 SK,OP64,FP6167,AR211.49276,ZE99.15352,SD118.935,--XS22 RB  
 SP,PN6168,N 1077505.062,E 567212.975,EL210.317,--XS22 RB  
 SK,OP64,FP6168,AR208.54491,ZE95.20248,SD174.883,--XS22 RB  
 SP,PN6169,N 1077491.589,E 567199.422,EL213.817,--XS22 RB  
 SK,OP64,FP6169,AR207.55286,ZE93.47163,SD193.396,--XS22 RB  
 SP,PN6170,N 1077476.239,E 567180.897,EL216.951,--XS22 LAWE  
 SK,OP64,FP6170,AR207.29476,ZE92.32400,SD217.199,--XS22 LAWE  
 SP,PN123,N 1077179.400,E 567477.300,EL0.000,--SECT21  
 SP,PN124,N 1077153.200,E 567104.400,EL0.000,--SECT21  
 LS,HI4.9400,HR5.3000  
 SP,PN6171,N 1077170.833,E 567244.505,EL216.963,--XS21 LAWE  
 SK,OP64,FP6171,AR168.07207,ZE92.17147,SD448.074,--XS21 LAWE  
 SP,PN6172,N 1077168.233,E 567252.229,EL214.395,--XS21 RB  
 SK,OP64,FP6172,AR167.05011,ZE92.36416,SD448.852,--XS21 RB  
 SP,PN6173,N 1077168.370,E 567300.859,EL214.953,--XS21 RB  
 SK,OP64,FP6173,AR160.54298,ZE92.35288,SD440.000,--XS21 RB  
 SP,PN6174,N 1077167.154,E 567314.549,EL214.004,--XS22 RB  
 SK,OP64,FP6174,AR159.06586,ZE92.42596,SD439.750,--XS22 RB  
 SP,PN6175,N 1077168.553,E 567360.647,EL214.445,--XS21 RB  
 SK,OP64,FP6175,AR153.05241,ZE92.40460,SD436.402,--XS21 RB  
 LS,HI4.9400,HR0.0000  
 OF,AR151.44065,ZE93.02304,SD437.524  
 OF,OL-8.000,--Right Angle Offset  
 SS,OP64,FP6176,AR150.41101,ZE93.02286,SD437.597,--XS21 LAWE  
 LS,HI4.9400,HR9.4300

SP,PN6177,N 1077579.529,E 567301.583,EL217.026,--XS22 LAWE  
 SK,OP64,FP6177,AR219.07021,ZE102.53301,SD61.346,--XS22 LAWE  
 LS,HI4.9400,HR5.3000  
 SP,PN6178,N 1077609.499,E 567332.723,EL233.016,--XS22 LELB  
 SK,OP64,FP6178,AR256.03456,ZE94.23266,SD23.855,--XS22 LELB  
 SP,PN6179,N 1077639.362,E 567372.030,EL237.472,--XS22 LELB  
 SK,OP64,FP6179,AR358.24239,ZE86.05261,SD38.565,--XS22 LELB  
 SP,PN6180,N 1077673.355,E 567410.705,EL241.756,--SECT22 RDU  
 CF,EL241.756,GD0.000  
 DE,PN125,N 1077675.500,E 567413.400,EL0.000,--SECT22  
 SD,ND2.145,ED2.695,LD-241.756  
 SK,OP64,FP6180,AR12.09377,ZE85.30387,SD88.320,--SECT22 RDU  
 LS,HI4.9400,HR4.9100  
 SS,OP64,FP6181,AR0.00062,ZE87.05521,SD226.352,--GPS65  
 OC,OP80,N 1077053.6541,E 567512.9999,EL234.2536,--CB  
 BK,OP80,BP64,BS344.05051,BC0.00000  
 LS,HI4.7500,HR4.6600  
 SS,OP80,FP64,AR0.00000,ZE89.54549,SD572.774,--GPS65  
 LS,HI4.7500,HR5.3000  
 SP,PN6182,N 1077178.379,E 567476.742,EL232.122,--SECT21 LELS  
 CF,EL232.122,GD0.000  
 DE,PN123,N 1077179.400,E 567477.300,EL0.000,--SECT21  
 SD,ND1.021,ED0.558,LD-232.122  
 SK,OP80,FP6182,AR359.42223,ZE90.41518,SD129.911,--SECT21 LELS  
 LS,HI4.7500,HR9.4300  
 SP,PN6183,N 1077169.933,E 567419.592,EL234.498,--XS21 LELB  
 SK,OP80,FP6183,AR337.08241,ZE88.06339,SD149.247,--XS21 LELB  
 LS,HI4.7500,HR10.4300  
 OF,AR316.47244,ZE90.09500,SD132.395  
 OF,OL53.000,--Right Angle Offset  
 OF,HD5.000,--Horizontal Distance Offset  
 SS,OP80,FP6184,AR337.53035,ZE90.08506,SD147.263,--XS21 LELB  
 SP,PN122,N 1077323.100,E 567619.700,EL0.000,--SECT21  
 LS,HI4.7500,HR5.3000  
 SP,PN6185,N 1077258.265,E 567562.384,EL231.254,--XS21 LELB  
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 SK,OP80,FP6187,AR221.54334,ZE93.03041,SD246.846,--XS20 RB  
 SP,PN6188,N 1076855.560,E 567417.076,EL214.259,--XS20 RB  
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 SP,PN6190,N 1076901.790,E 567439.348,EL216.685,--XS21 LAWE  
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 SP,PN6191,N 1076907.498,E 567440.874,EL221.698,--XS20 LELB  
 SK,OP80,FP6191,AR222.10508,ZE92.45596,SD163.190,--XS20 LELB  
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 SS,OP80,FP6194,AR41.32115,ZE90.55162,SD46.056,--XS20 LELS

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 OF,OL30.000,--Right Angle Offset  
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 SK,OP85,FP6202,AR163.56515,ZE91.31165,SD134.637,--XS39 LELB LAWA  
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 SP,PN6203,N 1075830.982,E 565016.928,EL218.408,--XS39 LAWE  
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 SK,OP85,FP6205,AR162.34371,ZE91.41076,SD211.020,--XS39 RB  
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 LS,HI5.2000,HR4.0000  
 SP,PN6209,N 1075695.325,E 565099.349,EL242.337,--XS39 PE  
 SK,OP85,FP6209,AR162.24205,ZE89.10093,SD329.642,--XS39 PE  
 LS,HI5.2000,HR4.5000  
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 SP,PN159,N 1077301.100,E 566118.100,EL0.000,--SECT31  
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 SK,OP67,FP6213,AR179.14459,ZE92.59196,SD181.070,--XS31 RB  
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 SP,PN138,N 1077272.600,E 566258.300,EL0.000,--SECT25  
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 OF,AR78.07517,ZE91.20563,SD429.191  
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 OF,AR77.58304,ZE91.20504,SD428.750  
 OF,OL-25.000,--Right Angle Offset  
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 OF,AR77.53548,ZE90.48162,SD428.490  
 OF,OL-30.000,--Right Angle Offset  
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 LS,HI4.9100,HR4.6300  
 SS,OP67,FP6227,AR359.59562,ZE89.50497,SD276.579,--GPS84  
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 SP,PN142,N 1077661.100,E 566264.400,EL0.000,--SECT26  
 SP,PN136,N 1077844.300,E 566552.100,EL0.000,--SECT25  
 LS,HI5.1000,HR25.5000  
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 SK,OP81,FP6229,AR291.06064,ZE87.12229,SD155.606,--XS26 RB  
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 SP,PN6235,N 1077699.087,E 566295.974,EL218.961,--XS26 LAWE  
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 CF,EL235.661,GD0.000  
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 SK,OP83,FP6238,AR282.08460,ZE89.18075,SD258.668,--XS24 PE  
 SP,PN6239,N 1078137.691,E 566744.382,EL235.642,--XS24 LELB  
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 SP,PN6240,N 1077977.006,E 566736.286,EL233.174,--XS24 LELS  
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 SP,PN6241,N 1077747.504,E 566560.567,EL222.019,--XS25 LELB  
 SK,OP83,FP6241,AR110.56449,ZE87.21405,SD189.177,--XS25 LELB  
 LS,HI5.0300,HR20.5700  
 OF,AR103.42515,ZE88.36166,SD281.026  
 OF,OL-28.000,--Right Angle Offset  
 OF,HD62.000,--Horizontal Distance Offset  
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 SS,OP83,FP6243,AR359.59210,ZE90.10513,SD110.613,--GPS82  
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 SP,PN6246,N 1077742.921,E 566706.566,EL223.474,--XS24 LELB  
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 LS,HI4.8500,HR13.5500  
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DE,PN129,N 1077822.100,E 566896.400,EL0.000,--SECT23  
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 SS,OP73,FP69,AR0.00000,ZE89.08590,SD271.232,--GPS  
 BK,OP73,BP69,BS349.11481,BC0.00000  
 SS,OP73,FP69,AR0.00000,ZE89.09006,SD271.230,--GPS  
 LS,HI4.9200,HR4.2700  
 SS,OP73,FP86,AR213.38473,ZE90.10299,SD273.436,--CB  
 SS,OP73,FP86,AR213.38489,ZE90.10272,SD273.438,--CB  
 SS,OP73,FP86,AR213.38499,ZE90.10269,SD273.438,--CB  
 LS,HI4.9200,HR4.8900  
 SS,OP73,FP69,AR180.00076,ZE270.51030,SD271.232,--GPS  
 SS,OP73,FP69,AR180.00057,ZE270.51019,SD271.235,--GPS  
 SS,OP73,FP69,AR180.00055,ZE270.51022,SD271.234,--GPS  
 LS,HI4.9200,HR4.2700  
 SS,OP73,FP86,AR33.38590,ZE269.49387,SD273.435,--CB  
 SS,OP73,FP86,AR33.38597,ZE269.49388,SD273.436,--CB  
 SS,OP73,FP86,AR33.39001,ZE269.49409,SD273.435,--CB  
 LS,HI4.9200,HR4.8900  
 LS,HI4.9200,HR4.2700  
 --Round: 1, PN: 69, dHz: 0°00'00", dVt: 0°00'02", dSD: 0.001  
 --Round: 1, PN: 69, dHz: 0°00'00", dVt: 0°00'03", dSD: 0.000  
 --Round: 1, PN: 69, dHz: 0°00'00", dVt: 0°00'02", dSD: -0.001  
 --Round: 1, PN: 86, dHz: -0°00'04", dVt: 0°00'05", dSD: 0.000  
 --Round: 1, PN: 86, dHz: -0°00'04", dVt: 0°00'05", dSD: 0.002  
 --Round: 1, PN: 86, dHz: -0°00'01", dVt: 0°00'05", dSD: -0.001  
 --Round: 1, PN: 69, dHz: 0°00'00", dVt: -0°00'05", dSD: 0.001  
 --Round: 1, PN: 69, dHz: 0°00'01", dVt: -0°00'03", dSD: -0.002  
 --Round: 1, PN: 69, dHz: 0°00'01", dVt: -0°00'04", dSD: -0.002  
 --Round: 1, PN: 86, dHz: 0°00'02", dVt: -0°00'02", dSD: -0.002  
 --Round: 1, PN: 86, dHz: 0°00'01", dVt: -0°00'02", dSD: 0.003  
 --Round: 1, PN: 86, dHz: 0°00'03", dVt: -0°00'03", dSD: 0.002  
 --Round: 2, PN: 69, dHz: 0°00'00", dVt: 0°00'02", dSD: 0.001  
 --Round: 2, PN: 69, dHz: 0°00'00", dVt: 0°00'01", dSD: 0.000  
 --Round: 2, PN: 69, dHz: 0°00'00", dVt: 0°00'03", dSD: -0.002  
 --Round: 2, PN: 86, dHz: -0°00'03", dVt: 0°00'04", dSD: -0.001  
 --Round: 2, PN: 86, dHz: -0°00'01", dVt: 0°00'02", dSD: 0.001  
 --Round: 2, PN: 86, dHz: 0°00'00", dVt: 0°00'01", dSD: 0.001  
 --Round: 2, PN: 69, dHz: 0°00'00", dVt: -0°00'01", dSD: -0.001  
 --Round: 2, PN: 69, dHz: -0°00'02", dVt: 0°00'00", dSD: 0.002

MJ783\_06022014 EDITED CONVENTIONAL.rw5  
--Round: 2, PN: 69, dHz: -0°00'02", dvt: -0°00'00", dSD: 0.002  
--Round: 2, PN: 86, dHz: 0°00'02", dvt: -0°00'04", dSD: -0.002  
--Round: 2, PN: 86, dHz: 0°00'02", dvt: -0°00'04", dSD: -0.001  
--Round: 2, PN: 86, dHz: 0°00'03", dvt: -0°00'06", dSD: -0.002  
OC,OP86,N 1076110.3801,E 565386.0012,EL237.6935,--CB  
BK,OP86,BP73,BS22.50418,BC0.00000  
LS,HI4.5800,HR4.6300  
SS,OP86,FP73,AR0.00000,ZE89.56425,SD273.429,--CB  
LS,HI4.5800,HR4.5000  
SP,PN6273,N 1075993.065,E 565308.419,EL238.610,--XS38 PE LELB  
SK,OP86,FP6273,AR190.37563,ZE89.39341,SD140.664,--XS38 PE LELB  
LS,HI4.5800,HR1.0000  
SP,PN6274,N 1075992.949,E 565317.967,EL238.582,--XS38 PRC  
SK,OP86,FP6274,AR187.14280,ZE91.08109,SD135.756,--XS38 PRC  
LS,HI4.5800,HR5.8000  
SP,PN6275,N 1075993.897,E 565328.655,EL238.280,--XS38 PE LELB  
SK,OP86,FP6275,AR183.22007,ZE89.12110,SD129.860,--XS38 PE LELB  
SP,PN182,N 1075611.400,E 565420.800,EL0.000,--SECT38  
LS,HI4.5800,HR5.3000  
SP,PN6276,N 1075949.107,E 565354.077,EL236.960,--XS38 LELB  
SK,OP86,FP6276,AR168.21079,ZE90.00172,SD164.419,--XS38 LELB  
SP,PN6277,N 1075871.495,E 565369.036,EL238.769,--XS38 LELB  
SK,OP86,FP6277,AR161.13018,ZE89.34144,SD239.518,--XS38 LELB  
SP,PN6278,N 1075793.953,E 565380.993,EL240.173,--XS38 LELB  
SK,OP86,FP6278,AR158.03427,ZE89.25164,SD316.514,--XS38 LELB  
LS,HI4.5800,HR6.8000  
OF,AR157.35562,ZE89.11031,SD496.086  
OF,OL-35.000,--Right Angle Offset  
SS,OP86,FP6279,AR153.33464,ZE89.11104,SD497.319,--XS38 LELB  
LS,HI4.5800,HR5.3000  
OF,AR157.43245,ZE89.11023,SD516.000  
OF,OL-42.000,--Right Angle Offset  
SS,OP86,FP6280,AR153.04108,ZE89.11120,SD517.706,--XS38 PE  
LS,HI4.5800,HR4.6300  
SS,OP86,FP6281,AR0.00008,ZE89.56456,SD273.425,--CB73

## ISO Rounds Report

<b>Project</b>	MJ783_06022014	<b>Date</b>	02.06.2014
<b>Instrument</b>	Trimble S6 3 DR Plus	<b>Distance unit</b>	Survey Feet
<b>Serial Number</b>	93110623	<b>Angle unit</b>	DMS Degrees
<b>Firmware Version</b>	R12.5.35	<b>Temperature unit</b>	Fahrenheit
		<b>Pressure unit</b>	hPa
<b>Trimble General Survey</b>	v1.80		

## Project Properties

### Coordinate System

<b>System Name</b>	US State Plane 1983
<b>Zone</b>	New York East 3101
<b>Datum</b>	NAD 1983 (Conus)

### Projection

<b>Projection</b>	TransverseMercator
<b>Latitude Origin</b>	38°50'00.00000"N
<b>Longitude Origin</b>	74°30'00.00000"W
<b>False Easting</b>	492125.000
<b>False Northing</b>	0.000
<b>Scale</b>	0.999900

### Datum Transformation

<b>Type</b>	Three Parameter
<b>Earth radius</b>	20925604.474
<b>Flattening</b>	298.257223
<b>X translation</b>	0.000
<b>Y translation</b>	0.000
<b>Z translation</b>	0.000
<b>Scale</b>	? ppm

### Corrections

<b>Distances as</b>	Ground
<b>South azimuth</b>	No
<b>Grid Orientation</b>	Increasing NE
<b>Magnetic Declination</b>	0°00'00"
<b>Neighborhood Adjustment</b>	Off

## Instrument Station

**Stationing Type****Station Setup****Atmospheric Settings**

<b>Station</b>	69	<b>Temperature</b>	80.0°F
<b>Code</b>	GPS	<b>Pressure</b>	1009.1hPa
<b>Instrument Height</b>	5.060	<b>Refraction Const.</b>	0.142
<b>Horizontal Circle Mode</b>	Zero		
<b>Standard Deviations</b>			
<b>Hz</b>	0°00'03"dms		
<b>V</b>	0°00'03"dms		
<b>EDM constant</b>	2mm		
<b>EDM ppm</b>	2ppm		
<b>Centering Error</b>	0mm		

**Backsight Points**

<b>Point Name</b>	<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
68	1075819.4515	565745.6735	244.9877

**Measurements**

<b>Point Name</b>	<b>Code</b>	<b>SD [sft]</b>	<b>HA [dms]</b>	<b>VA [dms]</b>	<b>th [sft]</b>	<b>PC [mm]</b>
68	GPS	864.7001	0°00'00"	89°47'49"	4.9400	-30
68	GPS	864.7001	0°00'00"	89°47'48"	4.9400	-30
68	GPS	864.6994	0°00'00"	89°47'45"	4.9400	-30
68	GPS	864.6967	180°00'03"	270°12'07"	4.9400	-30
68	GPS	864.6948	180°00'04"	270°12'06"	4.9400	-30
68	GPS	864.6949	180°00'05"	270°12'06"	4.9400	-30
68	GPS	864.6948	0°00'00"	89°47'48"	4.9400	-30
68	GPS	864.6954	0°00'00"	89°47'51"	4.9400	-30
68	GPS	864.6960	0°00'00"	89°47'53"	4.9400	-30
68	GPS	864.6966	180°00'03"	270°12'06"	4.9400	-30
68	GPS	864.6964	180°00'01"	270°12'04"	4.9400	-30
68	GPS	864.6962	180°00'02"	270°12'04"	4.9400	-30
68	GPS	864.6990	0°00'00"	89°47'51"	4.9400	-30
68	GPS	864.6997	0°00'00"	89°47'52"	4.9400	-30
68	GPS	864.6984	0°00'00"	89°47'52"	4.9400	-30
68	GPS	864.6985	180°00'08"	270°12'07"	4.9400	-30
68	GPS	864.6998	180°00'03"	270°12'08"	4.9400	-30
68	GPS	864.6985	180°00'05"	270°12'07"	4.9400	-30
68	GPS	864.6995	0°00'00"	89°47'54"	4.9400	-30
68	GPS	864.6973	0°00'00"	89°47'52"	4.9400	-30
68	GPS	864.6991	0°00'00"	89°47'53"	4.9400	-30
68	GPS	864.7014	180°00'08"	270°12'10"	4.9400	-30
68	GPS	864.6995	180°00'10"	270°12'09"	4.9400	-30



				-09.3				
Sum							00.0	04.654

**Mean Index Correction** -04.5 sec

**Number of sets** 2

**Number of targets** 2

**Number of degrees of freedom** 2

**Std.Dev. of a vertical angle measured in both faces** 01.5 sec

**Std.Dev. of a vertical angle averaged over 2 sets** 01.1 sec

**3. Distances**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
69	68	864.7001	864.6967	864.6970	-3.0	0.3	9.37	2.2	1.6
	73	271.2338	271.2310	271.2336	-0.2	2.6	6.59	1.9	1.3
	68	864.6948	864.6966		2.3	0.4	5.35		
	73	271.2354	271.2341		-1.9	-0.5	3.74		
Sum					-2.84	2.84	25.05		

**Number of sets** 2

**Number of targets** 2

**Number of degrees of freedom** 3

**Std. Dev. of a distance measured in 1 face - see column 9 above**

**Std. Dev. of the mean of all sets - see column 10 above**

**Std. Dev. for all distances (1 obs only)** 2.0 ft/1000

**Std. Dev. for all distances (mean)** 1.4 ft/1000

**4. Averaged Data Sets**

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [° F]	Press [hPa]
69	GPS				5.060			
68	GPS	0°00'00"	89°47'51"	864.6970	4.940	-30.0	80.0	1009.1
73	CB	9°48'30"	90°56'44"	271.2336	4.620	-30.0	80.0	1009.1

Point Name	Code	Az	VA	SD	ih/th
69	GPS				5.060

68	GPS	159°23'22"	89°47'51"	864.6970	4.940
73	CB	169°11'52"	90°56'44"	271.2336	4.620

Point Name	Code	Az	HD	VD
69	GPS			
68	GPS	159°23'22"	864.692	3.176
73	CB	169°11'52"	271.197	-4.036

Point Name	Code	Northing	Easting	Elevation
69	GPS	1076628.7053	565441.3263	241.9066
68	GPS	1075819.4384	565745.6810	245.0931
73	CB	1076362.3417	565492.1487	237.8711

## Multiple Rounds

### 1. Horizontal Angles

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R <sup>2</sup>
		dms	dms	dms	dms	dms	sec	sec	sec <sup>2</sup>
69	68	0°00'00"	180°00'08"	0°00'04"	0°00'00"	0°00'00"	00.0	-00.8	00.571
	74	85°02'10"	265°02'15"	85°02'13"	85°02'09"	85°02'11"	01.5	00.8	00.571
							00.8		
	68	0°00'00"	180°00'08"	0°00'04"	0°00'00"		00.0	00.8	00.571
	74	85°02'13"	265°02'19"	85°02'16"	85°02'12"		-01.5	-00.8	00.571
							-00.8		
Sum								00.0	02.282

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 1

**Std.Dev. of a direction measured in both faces** 01.5 sec  
**Std.Dev. of a direction averaged over 2 sets** 01.1 sec

### 2. Vertical Angles

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
69	68	89°47'51"	270°12'07"	-00.8	89°47'52"	89°47'52"	00.0	00.000
	74	94°04'02"	265°55'52"	-02.7	94°04'05"	94°04'04"	-01.4	02.069
				-03.4				

	68	89°47'54"	270°12'10"	01.7	89°47'52"		00.0	00.000
	74	94°04'00"	265°55'56"	-02.0	94°04'02"		01.4	02.069
				-00.3				
Sum							00.0	04.140

Mean Index Correction -00.9 sec

Number of sets 2

Number of targets 2

Number of degrees of freedom 2

Std.Dev. of a vertical angle measured in both faces 01.4 sec

Std.Dev. of a vertical angle averaged over 2 sets 01.0 sec

3. Distances

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
69	68	864.6990	864.6985	864.6996	0.6	1.1	1.53	1.3	0.9
	74	297.0253	297.0258	297.0251	-0.1	-0.7	0.51	0.9	0.6
	68	864.6995	864.7014		0.1	-1.8	3.30		
	74	297.0238	297.0256		1.3	-0.5	1.92		
Sum					1.90	-1.90	7.26		

Number of sets 2

Number of targets 2

Number of degrees of freedom 3

Std. Dev. of a distance measured in 1 face - see column 9 above

Std. Dev. of the mean of all sets - see column 10 above

Std. Dev. for all distances (1 obs only) 1.1 ft/1000

Std. Dev. for all distances (mean) 0.8 ft/1000

4. Averaged Data Sets

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [° F]	Press [hPa]
69	GPS				5.060			
68	GPS	0°00'00"	89°47'52"	864.6996	4.940	-30.0	80.0	1009.1
74	CB	85°02'11"	94°04'04"	297.0251	4.980	-30.0	80.0	1009.1



Point Name	Code	Az	VA	SD	ih/th
69	GPS				5.060
68	GPS	159°23'22"	89°47'52"	864.6996	4.940
74	CB	244°25'33"	94°04'04"	297.0251	4.980

Point Name	Code	Az	HD	VD
69	GPS			
68	GPS	159°23'22"	864.694	3.171
74	CB	244°25'33"	296.277	-20.989

Point Name	Code	Northing	Easting	Elevation
69	GPS	1076628.7053	565441.3263	241.9066
68	GPS	1075819.4384	565745.6810	245.0931
74	CB	1076500.8218	565174.1029	220.9184

## Instrument Station

Stationing Type		Station Setup	
		<b>Atmospheric Settings</b>	
Station	68	Temperature	80.0°F
Code	GPS	Pressure	1006.7hPa
Instrument Height	5.230	Refraction Const.	0.142
Horizontal Circle Mode	Zero		
<b>Standard Deviations</b>			
Hz	0°00'03"dms		
V	0°00'03"dms		
EDM constant	2mm		
EDM ppm	2ppm		
Centering Error	0mm		

## Backsight Points

Point Name	Northing	Easting	Elevation
69	1076628.7053	565441.3263	241.9066

## Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
69	GPS	864.6938	0°00'00"	90°14'39"	4.7800	-30

## Result

	Coordinates	Std.Dev.		Std.Dev.
Northing	1075819.4515	?sft	Orientation	-20°36'38" ?

<b>Easting</b>	565745.6735	?sft	<b>Scale</b>	1.000000	?
<b>Elevation</b>	244.9877	?sft			

## Instrument Station

<b>Stationing Type</b>		<b>Station Setup</b>	
		<b>Atmospheric Settings</b>	
<b>Station</b>	73	<b>Temperature</b>	80.0°F
<b>Code</b>	CB	<b>Pressure</b>	1004.0hPa
<b>Instrument Height</b>	4.910	<b>Refraction Const.</b>	0.142
<b>Horizontal Circle Mode</b>			Zero
<b>Standard Deviations</b>			
<b>Hz</b>			0°00'03"dms
<b>V</b>			0°00'03"dms
<b>EDM constant</b>			2mm
<b>EDM ppm</b>			2ppm
<b>Centering Error</b>			0mm

## Backsight Points

Point Name	Northing	Easting	Elevation
69	1076628.7053	565441.3263	241.9066

## Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
69	GPS	271.2335	0°00'00"	89°07'23"	5.0000	-30

## Result

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1076362.3417	?sft	<b>Orientation</b>	-10°48'08" ?
<b>Easting</b>	565492.1487	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	237.8711	?sft		

## Instrument Station

<b>Stationing Type</b>		<b>Station Setup</b>	
		<b>Atmospheric Settings</b>	
<b>Station</b>	69	<b>Temperature</b>	80.0°F
<b>Code</b>	GPS	<b>Pressure</b>	1003.4hPa
<b>Instrument Height</b>	5.070	<b>Refraction Const.</b>	0.142

<b>Horizontal Circle Mode</b>	Zero
<b>Standard Deviations</b>	
Hz	0°00'03"dms
V	0°00'03"dms
EDM constant	2mm
EDM ppm	2ppm
Centering Error	0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
74	1076500.8218	565174.1029	220.9184

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
74	CB	297.0484	0°00'00"	94°05'57"	4.8200	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1076628.7053	?sft	<b>Orientation</b>	-115°34'27" ?
<b>Easting</b>	565441.3263	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	241.9066	?sft		

**Instrument Station**

<b>Stationing Type</b>		<b>Station Setup</b>	
		<b>Atmospheric Settings</b>	
<b>Station</b>	74	<b>Temperature</b>	80.0°F
<b>Code</b>	CB	<b>Pressure</b>	1002.7hPa
<b>Instrument Height</b>	5.100	<b>Refraction Const.</b>	0.142
<b>Horizontal Circle Mode</b>	Zero		
<b>Standard Deviations</b>			
Hz	0°00'03"dms		
V	0°00'03"dms		
EDM constant	2mm		
EDM ppm	2ppm		
Centering Error	0mm		

**Backsight Points**

Point Name	Northing	Easting	Elevation
69	1076628.7053	565441.3263	241.9066

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
69	GPS	296.9773	0°00'00"	86°04'59"	4.4000	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1076500.8218	?sft	<b>Orientation</b>	64°25'33" ?
<b>Easting</b>	565174.1029	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	220.9184	?sft		

**Instrument Station****Stationing Type****Station Setup**

<b>Station</b>	9003
<b>Code</b>	CB3
<b>Instrument Height</b>	5.160

**Atmospheric Settings**

<b>Temperature</b>	80.0°F
<b>Pressure</b>	1000.0hPa
<b>Refraction Const.</b>	0.142

**Horizontal Circle Mode**

Zero

**Standard Deviations**

<b>Hz</b>	0°00'03"dms
<b>V</b>	0°00'03"dms
<b>EDM constant</b>	2mm
<b>EDM ppm</b>	2ppm
<b>Centering Error</b>	0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
97	1078099.4296	566438.3891	229.4619

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
97	CB	1051.7259	0°00'00"	90°12'36"	5.0500	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1077344.7260	?sft	<b>Orientation</b>	44°08'18" ?
<b>Easting</b>	565706.0505	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	233.1315	?sft		

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## Instrument Station

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Stationing Type		Station Setup	
<b>Station</b>	75	<b>Atmospheric Settings</b>	
<b>Code</b>	GPS	<b>Temperature</b>	80.0°F
<b>Instrument Height</b>	5.050	<b>Pressure</b>	1000.0hPa
<b>Horizontal Circle Mode</b>		<b>Refraction Const.</b>	0.142
<b>Standard Deviations</b>			
<b>Hz</b>			Zero
<b>V</b>			0°00'03"dms
<b>EDM constant</b>			2mm
<b>EDM ppm</b>			2ppm
<b>Centering Error</b>			0mm

---

## Backsight Points

Point Name	Northing	Easting	Elevation
76	1075580.9535	562571.8719	236.5539

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## Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
76	GPS	196.6020	0°00'00"	89°25'35"	5.2500	-30

## Result

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1075776.1167	?sft	<b>Orientation</b>	173°10'00" ?
<b>Easting</b>	562548.4846	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	234.8867	?sft		

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## Instrument Station

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Stationing Type		Station Setup	
<b>Station</b>	77	<b>Atmospheric Settings</b>	
<b>Code</b>	GPS	<b>Temperature</b>	80.0°F
<b>Instrument Height</b>	5.080	<b>Pressure</b>	1002.0hPa
<b>Horizontal Circle Mode</b>		<b>Refraction Const.</b>	0.142
<b>Standard Deviations</b>			
			Zero

Hz	0°00'03"dms
V	0°00'03"dms
EDM constant	2mm
EDM ppm	2ppm
Centering Error	0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
78	1077700.6853	565164.7900	232.3873

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
78	GPS	376.5845	0°00'00"	89°36'10"	5.0700	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1077880.5303	?sft	Orientation	118°31'59" ?
Easting	564834.0116	?sft	Scale	1.000000 ?
Elevation	229.7416	?sft		

**Instrument Station****Stationing Type****Station Setup**

Station	60
Code	GPS
Instrument Height	4.880

**Atmospheric Settings**

Temperature	80.0°F
Pressure	1000.3hPa
Refraction Const.	0.142

Horizontal Circle Mode	Zero
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**Standard Deviations**

Hz	0°00'03"dms
V	0°00'03"dms
EDM constant	2mm
EDM ppm	2ppm
Centering Error	0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
59	1079162.3130	563504.1500	238.4170

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
59	GPS	583.5045	0°00'00"	90°07'33"	6.8700	-30
59	GPS	583.5063	0°00'00"	90°07'37"	6.8700	-30
59	GPS	583.5058	0°00'00"	90°07'35"	6.8700	-30
59	GPS	583.5098	0°00'00"	90°07'36"	6.8700	-30
59	GPS	583.5053	180°00'11"	269°52'34"	6.8700	-30
59	GPS	583.5095	180°00'10"	269°52'32"	6.8700	-30
59	GPS	583.5079	180°00'11"	269°52'34"	6.8700	-30
59	GPS	583.5106	0°00'00"	90°07'34"	6.8700	-30
59	GPS	583.5096	0°00'00"	90°07'33"	6.8700	-30
59	GPS	583.5098	0°00'00"	90°07'33"	6.8700	-30
59	GPS	583.5060	180°00'05"	269°52'33"	6.8700	-30
59	GPS	583.5038	180°00'07"	269°52'37"	6.8700	-30
59	GPS	583.5072	180°00'07"	269°52'36"	6.8700	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1079065.9270	?sft	Orientation	80°29'29" ?
Easting	562928.7060	?sft	Scale	1.000000 ?
Elevation	241.6680	?sft		

**Multiple Rounds****1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R <sup>2</sup>
		dms	dms	dms	dms	dms	sec	sec	sec <sup>2</sup>
60	59	0°00'00"	180°00'11"	0°00'05"	0°00'00"	0°00'00"	00.0	-00.4	00.180
	79	308°13'41"	128°13'46"	308°13'44"	308°13'38"	308°13'39"	00.8	00.4	00.180
							00.4		
	59	0°00'00"	180°00'05"	0°00'03"	0°00'00"		00.0	00.4	00.180
	79	308°13'41"	128°13'45"	308°13'43"	308°13'40"		-00.8	-00.4	00.180
							-00.4		
Sum								00.0	00.719

Number of sets 2

Number of targets 2

Number of degrees of freedom 1

Std.Dev. of a direction measured in both faces 00.8 sec

**Std.Dev. of a direction averaged over 2 sets**

00.6 sec

**2. Vertical Angles**

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
60	59	90°07'37"	269°52'34"	05.3	90°07'31"	90°07'31"	-00.3	00.071
	79	90°04'26"	269°55'47"	06.5	90°04'19"	90°04'18"	-01.2	01.383
				11.8				
	59	90°07'34"	269°52'33"	03.5	90°07'31"		00.3	00.071
	79	90°04'19"	269°55'45"	01.8	90°04'17"		01.2	01.383
				05.3				
Sum							00.0	02.909

**Mean Index Correction**

04.3 sec

**Number of sets**

2

**Number of targets**

2

**Number of degrees of freedom**

2

**Std.Dev. of a vertical angle measured in both faces**

01.2 sec

**Std.Dev. of a vertical angle averaged over 2 sets**

00.9 sec

**3. Distances**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
60	59	583.5063	583.5053	583.5071	0.7	1.8	3.74	2.4	1.7
	79	754.8689	754.8645	754.8659	-3.1	1.3	11.15	2.1	1.5
	59	583.5106	583.5060		-3.6	1.0	13.70		
	79	754.8643	754.8657		1.5	0.2	2.39		
Sum					-4.36	4.36	30.97		

**Number of sets**

2

**Number of targets**

2

**Number of degrees of freedom**

3

**Std. Dev. of a distance measured in 1 face - see column 9 above**

**Std. Dev. of the mean of all sets - see column 10**



above

Std. Dev. for all distances (1 obs only) 2.3 ft/1000  
 Std. Dev. for all distances (mean) 1.6 ft/1000

4. Averaged Data Sets

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [°F]	Press [hPa]
60	GPS				4.880			
59	GPS	0°00'00"	90°07'31"	583.5071	6.870	-30.0	80.0	1000.3
79	CB	308°13'39"	90°04'18"	754.8659	3.860	-30.0	80.0	1000.3

Point Name	Code	Az	VA	SD	ih/th
60	GPS				4.880
59	GPS	80°29'29"	90°07'31"	583.5071	6.870
79	CB	28°43'08"	90°04'18"	754.8659	3.860

Point Name	Code	Az	HD	VD
60	GPS			
59	GPS	80°29'29"	583.506	-3.266
79	CB	28°43'08"	754.865	0.075

Point Name	Code	Northing	Easting	Elevation
60	GPS	1079065.9270	562928.7060	241.6680
59	GPS	1079162.3102	563504.1373	238.4115
79	CB	1079727.8685	563291.3921	241.7535

Instrument Station

Stationing Type		Station Setup	
<b>Station</b>	79	<b>Atmospheric Settings</b>	
<b>Code</b>	CB	<b>Temperature</b>	80.0°F
<b>Instrument Height</b>	4.430	<b>Pressure</b>	998.7hPa
<b>Horizontal Circle Mode</b>		<b>Refraction Const.</b>	0.142
<b>Standard Deviations</b>			
<b>Hz</b>			Zero
<b>V</b>			0°00'03"dms
<b>EDM constant</b>			2mm
<b>EDM ppm</b>			2ppm
<b>Centering Error</b>			0mm

Backsight Points

Point Name	Northing	Easting	Elevation
60	1079065.9270	562928.7060	241.6680

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
60	GPS	754.8646	0°00'00"	90°02'24"	4.0000	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1079727.8685	?sft	Orientation	-151°16'52" ?
Easting	563291.3921	?sft	Scale	1.000000 ?
Elevation	241.7535	?sft		

**Instrument Station****Stationing Type****Station Setup**

Station	64	<b>Atmospheric Settings</b>
Code	GPS64	Temperature 80.0°F
Instrument Height	4.940	Pressure 996.2hPa
Horizontal Circle Mode	Zero	Refraction Const. 0.142
<b>Standard Deviations</b>		
Hz	0°00'03"dms	
V	0°00'03"dms	
EDM constant	2mm	
EDM ppm	2ppm	
Centering Error	0mm	

**Backsight Points**

Point Name	Northing	Easting	Elevation
65	1077807.0445	567456.0725	246.6284

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
65	GPS65	226.3591	0°00'00"	87°05'43"	4.9100	-30
65	GPS65	226.3576	0°00'00"	87°05'47"	4.9100	-30
65	GPS65	226.3552	0°00'00"	87°05'47"	4.9100	-30
65	GPS65	226.3547	180°00'05"	272°54'10"	4.9100	-30
65	GPS65	226.3544	180°00'04"	272°54'10"	4.9100	-30
65	GPS65	226.3542	180°00'03"	272°54'11"	4.9100	-30

65	GPS65	226.3521	0°00'00"	87°05'43"	4.9100	-30
65	GPS65	226.3540	0°00'00"	87°05'47"	4.9100	-30
65	GPS65	226.3531	0°00'00"	87°05'45"	4.9100	-30
65	GPS65	226.3528	180°00'05"	272°54'08"	4.9100	-30
65	GPS65	226.3535	180°00'06"	272°54'13"	4.9100	-30
65	GPS65	226.3537	180°00'06"	272°54'09"	4.9100	-30

**Result**

<b>Coordinates</b>	<b>Std.Dev.</b>	<b>Orientation</b>	<b>Std.Dev.</b>
<b>Northing</b> 1077604.4102	?sft	26°17'35"	?
<b>Easting</b> 567355.9545	?sft	<b>Scale</b> 1.000000	?
<b>Elevation</b> 235.2024	?sft		

**Multiple Rounds**

**1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R²
		dms	dms	dms	dms	dms	sec	sec	sec²
64	65	0°00'00"	180°00'05"	0°00'02"	0°00'00"	0°00'00"	00.0	00.0	00.000
	80	137°47'32"	317°47'32"	137°47'32"	137°47'30"	137°47'30"	00.0	00.0	00.000
							00.0		
	65	0°00'00"	180°00'05"	0°00'02"	0°00'00"		00.0	00.0	00.000
	80	137°47'32"	317°47'32"	137°47'32"	137°47'30"		00.0	00.0	00.000
							00.0		
Sum								00.0	00.000

<b>Number of sets</b>	2
<b>Number of targets</b>	2
<b>Number of degrees of freedom</b>	1
<b>Std.Dev. of a direction measured in both faces</b>	00.0 sec
<b>Std.Dev. of a direction averaged over 2 sets</b>	00.0 sec

**2. Vertical Angles**

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R²
		dms	dms	sec	dms	dms	sec	sec²
64	65	87°05'43"	272°54'10"	-03.8	87°05'47"	87°05'47"	00.5	00.213

	80	90°08'37"	269°51'23"	-00.1	90°08'37"	90°08'37"	00.0	00.002
				-03.8				
	65	87°05'43"	272°54'08"	-04.6	87°05'47"		-00.5	00.213
	80	90°08'37"	269°51'23"	-00.2	90°08'37"		00.0	00.002
				-04.7				
Sum							00.0	00.430

Mean Index Correction -02.1 sec

Number of sets 2

Number of targets 2

Number of degrees of freedom 2

Std.Dev. of a vertical angle measured in both faces 00.5 sec

Std.Dev. of a vertical angle averaged over 2 sets 00.3 sec

3. Distances

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000
64	65	226.3591	226.3547	226.3547	-4.4	0.0	19.76	3.2	2.2
	80	572.7691	572.7678	572.7683	-0.8	0.5	0.85	1.5	1.1
	65	226.3521	226.3528		2.5	1.9	10.15		
	80	572.7699	572.7664		-1.6	1.9	6.08		
Sum					-4.28	4.28	36.84		

Number of sets 2

Number of targets 2

Number of degrees of freedom 3

Std. Dev. of a distance measured in 1 face - see column 9 above

Std. Dev. of the mean of all sets - see column 10 above

Std. Dev. for all distances (1 obs only) 2.5 ft/1000

Std. Dev. for all distances (mean) 1.8 ft/1000

4. Averaged Data Sets

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [° F]	Press [hPa]
64	GPS64				4.940			

65	GPS65	0°00'00"	87°05'47"	226.3547	4.910	-30.0	80.0	996.2
80	CB	137°47'30"	90°08'37"	572.7683	4.460	-30.0	80.0	996.2

Point Name	Code	Az	VA	SD	ih/th
64	GPS64				4.940
65	GPS65	26°17'35"	87°05'47"	226.3547	4.910
80	CB	164°05'05"	90°08'37"	572.7683	4.460

Point Name	Code	Az	HD	VD
64	GPS64			
65	GPS65	26°17'35"	226.064	11.496
80	CB	164°05'05"	572.766	-0.956

Point Name	Code	Northing	Easting	Elevation
64	GPS64	1077604.4102	567355.9545	235.2024
65	GPS65	1077807.0651	567456.0827	246.6991
80	CB	1077053.6541	567512.9999	234.2536

## Instrument Station

### Stationing Type

### Station Setup

**Station** 80  
**Code** CB  
**Instrument Height** 4.750

### Atmospheric Settings

**Temperature** 80.0°F  
**Pressure** 995.0hPa  
**Refraction Const.** 0.142

**Horizontal Circle Mode** Zero

### Standard Deviations

**Hz** 0°00'03"dms  
**V** 0°00'03"dms  
**EDM constant** 2mm  
**EDM ppm** 2ppm  
**Centering Error** 0mm

### Backsight Points

Point Name	Northing	Easting	Elevation
64	1077604.4102	567355.9545	235.2024

### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
64	GPS65	572.7737	0°00'00"	89°54'55"	4.6600	-30

### Result

	Coordinates	Std.Dev.			Std.Dev.
Northing	1077053.6541	?sft	Orientation	-15°54'55"	?
Easting	567512.9999	?sft	Scale	1.000000	?
Elevation	234.2536	?sft			

## Instrument Station

### Stationing Type

### Station Setup

Station 85  
Code GPS  
Instrument Height 5.200

### Atmospheric Settings

Temperature 80.0°F  
Pressure 997.1hPa  
Refraction Const. 0.142

Horizontal Circle Mode Zero

### Standard Deviations

Hz 0°00'03"dms  
V 0°00'03"dms  
EDM constant 2mm  
EDM ppm 2ppm  
Centering Error 0mm

### Backsight Points

Point Name	Northing	Easting	Elevation
84	1076912.8119	564699.3755	240.3559

### Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
84	GPS	963.6553	0°00'00"	89°47'21"	4.6300	-30

### Result

	Coordinates	Std.Dev.			Std.Dev.
Northing	1075976.8661	?sft	Orientation	-13°43'41"	?
Easting	564928.0191	?sft	Scale	1.000000	?
Elevation	236.3550	?sft			

## Instrument Station

### Stationing Type

### Station Setup

Station 67

### Atmospheric Settings

Temperature 75.0°F

<b>Code</b>	CB	<b>Pressure</b>	1001.9hPa
<b>Instrument Height</b>	4.910	<b>Refraction Const.</b>	0.142
<b>Horizontal Circle Mode</b>	Zero		
<b>Standard Deviations</b>			
<b>Hz</b>	0°00'03"dms		
<b>V</b>	0°00'03"dms		
<b>EDM constant</b>	2mm		
<b>EDM ppm</b>	2ppm		
<b>Centering Error</b>	0mm		

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**Backsight Points**

Point Name	Northing	Easting	Elevation
81	1077884.7867	566244.1706	229.2771

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**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
81	GPS	276.5813	0°00'00"	89°50'52"	4.8100	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1077660.0973	?sft	<b>Orientation</b>	35°37'51" ?
<b>Easting</b>	566083.1251	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	228.4366	?sft		

---

**Instrument Station****Stationing Type****Station Setup**

<b>Station</b>	81	<b>Atmospheric Settings</b>	
<b>Code</b>	GPS	<b>Temperature</b>	75.0°F
<b>Instrument Height</b>	5.100	<b>Pressure</b>	1002.6hPa
<b>Horizontal Circle Mode</b>	Zero		
<b>Standard Deviations</b>			
<b>Hz</b>	0°00'03"dms		
<b>V</b>	0°00'03"dms		
<b>EDM constant</b>	2mm		
<b>EDM ppm</b>	2ppm		
<b>Centering Error</b>	0mm		

---

**Backsight Points**

Point Name	Northing	Easting	Elevation
67	1077660.0973	566083.1251	228.4366

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
67	CB	276.5904	0°00'00"	90°16'05"	4.6300	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1077884.7867	?sft	Orientation	-144°22'09" ?
Easting	566244.1706	?sft	Scale	1.000000 ?
Elevation	229.2771	?sft		

**Instrument Station****Stationing Type****Station Setup**

Station	83
Code	GPS
Instrument Height	5.030

**Atmospheric Settings**

Temperature	75.0°F
Pressure	1002.5hPa
Refraction Const.	0.142

Horizontal Circle Mode	Zero
------------------------	------

**Standard Deviations**

Hz	0°00'03"dms
V	0°00'03"dms
EDM constant	2mm
EDM ppm	2ppm
Centering Error	0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
82	1077894.2666	566763.8674	232.9017

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
82	GPS	110.6123	0°00'00"	90°10'50"	4.5800	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1077911.3879	?sft	Orientation	98°54'27" ?



<b>Easting</b>	566654.6273	?sft	<b>Scale</b>	1.000000	?
<b>Elevation</b>	232.7791	?sft			

## Instrument Station

<b>Stationing Type</b>		<b>Station Setup</b>	
		<b>Atmospheric Settings</b>	
<b>Station</b>	82	<b>Temperature</b>	75.0°F
<b>Code</b>	GPS	<b>Pressure</b>	1002.6hPa
<b>Instrument Height</b>	4.850	<b>Refraction Const.</b>	0.142
<b>Horizontal Circle Mode</b>	Zero		
<b>Standard Deviations</b>			
<b>Hz</b>	0°00'03"dms		
<b>V</b>	0°00'03"dms		
<b>EDM constant</b>	2mm		
<b>EDM ppm</b>	2ppm		
<b>Centering Error</b>	0mm		

## Backsight Points

Point Name	Northing	Easting	Elevation
83	1077911.3879	566654.6273	232.7791

## Measurements

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
83	GPS	110.6157	0°00'00"	90°06'01"	4.7500	-30

## Result

	Coordinates	Std.Dev.		Std.Dev.
<b>Northing</b>	1077894.2666	?sft	<b>Orientation</b>	-81°05'33" ?
<b>Easting</b>	566763.8674	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	232.9017	?sft		

## Instrument Station

<b>Stationing Type</b>		<b>Station Setup</b>	
		<b>Atmospheric Settings</b>	
<b>Station</b>	73	<b>Temperature</b>	75.0°F
<b>Code</b>	CB	<b>Pressure</b>	1002.2hPa
<b>Instrument Height</b>	4.920	<b>Refraction Const.</b>	0.142

Horizontal Circle Mode Zero  
 Standard Deviations  
 Hz 0°00'03"dms  
 V 0°00'03"dms  
 EDM constant 2mm  
 EDM ppm 2ppm  
 Centering Error 0mm

**Backsight Points**

Point Name	Northing	Easting	Elevation
69	1076628.7053	565441.3263	241.9066

**Measurements**

Point Name	Code	SD [sft]	HA [dms]	VA [dms]	th [sft]	PC [mm]
69	GPS	271.2335	0°00'00"	89°09'00"	4.8900	-30
69	GPS	271.2319	0°00'00"	89°09'01"	4.8900	-30
69	GPS	271.2311	0°00'00"	89°09'00"	4.8900	-30
69	GPS	271.2334	180°00'05"	270°51'07"	4.8900	-30
69	GPS	271.2300	180°00'06"	270°51'05"	4.8900	-30
69	GPS	271.2306	180°00'06"	270°51'06"	4.8900	-30
69	GPS	271.2328	0°00'00"	89°09'00"	4.8900	-30
69	GPS	271.2319	0°00'00"	89°08'59"	4.8900	-30
69	GPS	271.2302	0°00'00"	89°09'01"	4.8900	-30
69	GPS	271.2316	180°00'08"	270°51'03"	4.8900	-30
69	GPS	271.2345	180°00'06"	270°51'02"	4.8900	-30
69	GPS	271.2340	180°00'05"	270°51'02"	4.8900	-30

**Result**

	Coordinates	Std.Dev.		Std.Dev.
Northing	1076362.3417	?sft	Orientation	-10°48'08" ?
Easting	565492.1487	?sft	Scale	1.000000 ?
Elevation	237.8711	?sft		

**Multiple Rounds**

**1. Horizontal Angles**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean L1+L2	Mean Reduced	Mean out of all sets	Diff.(D)	Res. (R)	R²
		dms	dms	dms	dms	dms	sec	sec	sec²
73	69	0°00'00"	180°00'05"	0°00'02"	0°00'00"	0°00'00"	00.0	-00.1	00.018

	86	213°38'46"	33°38'57"	213°38'51"	213°38'49"	213°38'49"	00.3	00.1	00.018
							00.1		
	69	0°00'00"	180°00'08"	0°00'04"	0°00'00"		00.0	00.1	00.018
	86	213°38'47"	33°38'59"	213°38'53"	213°38'49"		-00.3	-00.1	00.018
							-00.1		
Sum								00.0	00.071

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 1

**Std.Dev. of a direction measured in both faces** 00.3 sec  
**Std.Dev. of a direction averaged over 2 sets** 00.2 sec

**2. Vertical Angles**

1	2	3	4	5	6	7	8	9
Station	Target	Face 1	Face 2	V-Index	Mean L1+L2	Mean out of all sets	Res.(R)	R <sup>2</sup>
		dms	dms	sec	dms	dms	sec	sec <sup>2</sup>
73	69	89°09'00"	270°51'07"	03.5	89°08'57"	89°08'58"	00.9	00.822
	86	90°10'31"	269°49'36"	03.3	90°10'27"	90°10'26"	-00.8	00.607
				06.8				
	69	89°09'00"	270°51'03"	01.6	89°08'59"		-00.9	00.822
	86	90°10'30"	269°49'39"	04.3	90°10'26"		00.8	00.607
				05.9				
Sum							00.0	02.857

**Mean Index Correction** 03.2 sec

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 2

**Std.Dev. of a vertical angle measured in both faces** 01.2 sec  
**Std.Dev. of a vertical angle averaged over 2 sets** 00.8 sec

**3. Distances**

1	2	3	4	5	6	7	8	9	10
Station	Target	Face 1	Face 2	Mean out of all sets	Res.(R1)	Res.(R2)	Sum (R <sup>2</sup> )	Std.Dev	Std.Dev. Mean
		sft	sft	sft	ft/1000	ft/1000	ft/1000 <sup>2</sup>	ft/1000	ft/1000

73	69	271.2335	271.2334	271.2328	-0.7	-0.6	0.81	0.9	0.6
	86	273.4364	273.4345	273.4354	-1.0	0.9	1.76	0.9	0.6
	69	271.2328	271.2316		0.0	1.2	1.53		
	86	273.4359	273.4348		-0.5	0.6	0.56		
Sum					-2.13	2.13	4.65		

**Number of sets** 2  
**Number of targets** 2  
**Number of degrees of freedom** 3

**Std. Dev. of a distance measured in 1 face - see column 9 above**

**Std. Dev. of the mean of all sets - see column 10 above**

**Std. Dev. for all distances (1 obs only)** 0.9 ft/1000  
**Std. Dev. for all distances (mean)** 0.6 ft/1000

**4. Averaged Data Sets**

Point Name	Code	HA	VA	SD	ih/th	PC	Temp [°F]	Press [hPa]
73	CB				4.920			
69	GPS	0°00'00"	89°08'58"	271.2328	4.890	-30.0	75.0	1002.2
86	CB	213°38'49"	90°10'26"	273.4354	4.270	-30.0	75.0	1002.2

Point Name	Code	Az	VA	SD	ih/th
73	CB				4.920
69	GPS	349°11'52"	89°08'58"	271.2328	4.890
86	CB	202°50'41"	90°10'26"	273.4354	4.270

Point Name	Code	Az	HD	VD
73	CB			
69	GPS	349°11'52"	271.203	4.057
86	CB	202°50'41"	273.434	-0.180

Point Name	Code	Northing	Easting	Elevation
73	CB	1076362.3417	565492.1487	237.8711
69	GPS	1076628.7114	565441.3249	241.9289
86	CB	1076110.3801	565386.0012	237.6935

**Instrument Station**

Stationing Type

Station Setup

Atmospheric Settings

<b>Station</b>	86	<b>Temperature</b>	75.0°F
<b>Code</b>	CB	<b>Pressure</b>	1001.9hPa
<b>Instrument Height</b>	4.580	<b>Refraction Const.</b>	0.142
<b>Horizontal Circle Mode</b>	Zero		
<b>Standard Deviations</b>			
<b>Hz</b>	0°00'03"dms		
<b>V</b>	0°00'03"dms		
<b>EDM constant</b>	2mm		
<b>EDM ppm</b>	2ppm		
<b>Centering Error</b>	0mm		

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**Backsight Points**

<b>Point Name</b>	<b>Northing</b>	<b>Easting</b>	<b>Elevation</b>
73	1076362.3417	565492.1487	237.8711

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**Measurements**

<b>Point Name</b>	<b>Code</b>	<b>SD [sft]</b>	<b>HA [dms]</b>	<b>VA [dms]</b>	<b>th [sft]</b>	<b>PC [mm]</b>
73	CB	273.4293	0°00'00"	89°56'42"	4.6300	-30

**Result**

	<b>Coordinates</b>	<b>Std.Dev.</b>		<b>Std.Dev.</b>
<b>Northing</b>	1076110.3801	?sft	<b>Orientation</b>	22°50'42" ?
<b>Easting</b>	565386.0012	?sft	<b>Scale</b>	1.000000 ?
<b>Elevation</b>	237.6935	?sft		

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## **SECTION 7**

*Coordinate Listing*

<u>Point</u>	<u>Northing</u>	<u>Easting</u>	<u>Elevation</u>	<u>Description</u>
3	1077344.7760	565705.9851	233.13	CB
51	1076325.1221	563871.2677	245.50	GPS
52	1075995.1180	564291.9810	246.88	GPS
53	1076722.6861	562891.7874	237.40	GPS
54	1076955.8066	566136.4195	233.88	GPS
55	1076985.0561	566964.0673	231.11	GPS
56	1078547.2578	565577.9090	230.30	GPS
57	1078231.8410	566181.6040	233.39	GPS
58	1079093.4897	564275.2156	233.20	GPS
59	1079162.3129	563504.1497	238.42	GPS
60	1079065.9272	562928.7061	241.67	GPS
61	1077296.5209	563973.1868	237.65	GPS
62	1077412.3638	562398.8475	241.17	GPS
63	1077271.1588	561926.8735	244.72	CB
64	1077604.4100	567355.9545	235.20	GPS64
65	1077807.0450	567456.0725	246.63	GPS
66	1078848.4080	564251.1321	234.05	CB
67	1077660.0585	566083.0809	228.43	CB
68	1075819.4520	565745.6735	244.99	GPS
69	1076628.7050	565441.3263	241.91	GPS
70	1079273.4512	563617.4491	238.86	CB
71	1078699.0004	563604.8628	237.65	CB
72	1078271.1662	563816.0803	235.36	CB
73	1076362.3139	565492.1535	237.87	CB
74	1076500.8089	565174.0764	220.92	CB
75	1075776.1170	562548.4846	234.89	GPS
76	1075580.9540	562571.8719	236.55	GPS
77	1077880.5300	564834.0115	229.74	GPS
78	1077700.6850	565164.7900	232.39	GPS
79	1079727.9352	563291.4278	241.74	CB
80	1077053.5986	567513.0158	234.25	CB
81	1077884.7870	566244.1706	229.28	GPS
82	1077894.2670	566763.8674	232.90	GPS
83	1077911.3880	566654.6273	232.78	GPS
84	1076912.8120	564699.3755	240.36	GPS
85	1075976.8660	564928.0191	236.36	GPS
86	1076110.3279	565385.9965	237.69	CB
95	1077648.0070	563130.6078	240.61	CB
97	1078099.4296	566438.3891	229.46	CB
98	1078403.1238	567471.1114	250.45	CB
1001	1076599.3149	562819.3045	237.64	LELS
1002	1076495.8463	562865.3193	237.45	LELS
1003	1076400.6714	562910.4941	237.50	LELS
1004	1076334.7503	562940.8900	237.47	LELS
1005	1076783.4418	562544.4959	238.05	LELS
1006	1076725.5221	562627.4975	238.57	LELS
1007	1076666.1981	562714.3887	238.50	LELS
1008	1076818.6475	563001.5532	237.02	LELS

1009	1076887.0013	562933.9216	237.28	LELS
1010	1076956.6333	562866.9237	237.77	LELS
1011	1077023.9404	562800.7655	239.27	LELS
1012	1077088.8176	562734.3570	239.18	LELS
1013	1077129.6234	562697.3652	238.88	LELS
1014	1077347.3496	562974.2941	238.52	LELS
1015	1077246.7983	562997.4865	238.09	LELS
1016	1077154.3455	563018.2056	237.58	LELS
1017	1077058.8228	563038.5735	236.66	LELS
1018	1076975.2789	563057.6099	236.63	LELS
1019	1076892.9686	563076.3932	236.88	LELS
1020	1076809.8470	563095.7322	237.23	LELS
1021	1076718.3586	563116.1517	238.92	LELS
1022	1076626.3111	563137.4180	238.62	LELS
1023	1076535.9851	563156.1439	238.34	LELS
1024	1076446.6263	563176.5866	236.46	LELS
1025	1076365.1395	563195.9611	237.86	LELB
1026	1076301.7467	563210.0157	243.80	LELB
1027	1076273.3362	563215.3952	244.18	LELS
1028	1076242.8115	563222.3790	245.76	LAWA LELB
1029	1076886.7927	563212.3966	236.68	LELS
1030	1076970.9255	563257.0030	236.93	LELS
1031	1077051.9279	563299.4741	236.77	LELS
1032	1077124.8316	563337.3265	236.88	LELS
1033	1077201.5571	563379.5464	237.40	LELS
1034	1077244.4992	563400.8780	236.39	LELS
1035	1076200.6752	563232.5615	249.27	LAWA LELB
1036	1076142.2418	563864.4129	244.01	LABL
1037	1076211.8873	563906.2990	244.62	LELS
1038	1076275.2133	563945.1422	245.04	LELB
1039	1076324.6049	563976.7235	237.64	LELB
1040	1076328.9806	563979.1923	236.27	LELB
1041	1076329.7646	563979.7798	235.45	LELB
1042	1076422.8022	564036.0775	234.10	LELS
1043	1076505.3799	564087.5853	234.71	LELS
1044	1076592.6020	564142.4890	235.87	LELS
1045	1076684.8484	564199.1763	236.51	LELS
1046	1076730.0312	564225.7137	236.90	LELS
1047	1076777.6214	564257.1281	236.40	LELS
1048	1076814.0751	564279.0107	235.40	LELB
1049	1076817.9556	564282.1063	234.84	LELB LAW
1050	1076503.0346	566105.2873	239.22	LELS
1051	1076599.9080	566086.0761	238.34	LELS
1052	1076703.2765	566066.3743	235.94	LELS
1053	1076802.9903	566045.5224	235.01	LELS
1054	1076903.4593	566025.4373	235.04	LELS
1055	1077000.6286	566006.8648	235.15	LELS
1056	1077028.3374	566001.9804	235.20	LELS
1057	1077081.9123	565940.9686	235.76	LELS
1058	1077114.0204	565902.4152	235.65	LELS
1059	1077134.5689	565879.8464	235.51	LELB
1060	1077143.0989	565868.4607	234.77	LELS



1061	1077301.1395	566119.0173	234.20	LELS
1062	1077369.7000	566065.7946	233.04	LELS
1063	1077405.7373	566037.9770	232.45	LELS
1064	1077477.3252	566102.5240	231.92	LELB LAWA
1065	1077465.0965	566105.2312	231.57	LELB
1066	1077393.4871	566187.3439	233.73	LELS
1067	1077441.1770	566199.1447	232.67	LELS
1068	1077485.5262	566213.3802	231.46	LELB
1069	1077489.7619	566215.0967	231.55	LELB LAWA
1070	1077377.8150	566123.4103	233.23	LELS
1071	1077289.2886	566139.9619	234.57	LELS
1072	1077189.4277	566158.2766	234.27	LELS
1073	1077115.9107	566172.5205	234.63	LELS
1074	1076996.9997	566196.5304	233.85	LELS
1075	1076887.6548	566218.1459	234.16	LELS
1076	1076813.5673	566232.0612	235.11	LELB
1077	1076679.8348	566256.8089	239.24	LELB
1078	1076626.7612	566267.9077	239.78	LELS
1079	1076514.9514	566290.6204	239.25	LELS
1080	1076552.7075	566393.5647	239.82	LELS
1081	1076628.7811	566380.1735	240.10	LELS
1082	1076716.1290	566364.2926	239.8800	LELB
1083	1076757.6727	566355.4371	238.31	LELB
1084	1076845.9382	566339.5784	235.22	LELB
1085	1076938.6410	566320.6224	233.31	LELS
1086	1077039.9858	566302.8369	233.67	LELS
1087	1077138.5640	566283.8356	234.23	LELS
1088	1077238.6339	566265.0319	234.50	LELS
1089	1077272.1431	566257.4172	234.73	LELS
1090	1077301.2225	566284.4037	233.77	LELS
1091	1077327.8279	566309.1403	233.06	LELS
1092	1077338.5583	566319.3138	233.00	LELB
1093	1077343.4907	566323.3114	232.09	LELB
1094	1077348.2571	566328.0862	232.88	LELB
1095	1077350.3261	566330.7327	232.28	LAWA LELB
1096	1077219.7599	566631.7502	233.70	LELB LAWA
1097	1077216.2100	566631.6242	233.39	LELB
1098	1077209.4379	566630.7405	231.53	LELB
1099	1077202.1285	566629.8421	230.94	LELB
1100	1077185.9930	566627.5600	231.55	LELB
1101	1077081.7899	566611.3006	233.17	LELS
1102	1077005.9490	566601.1024	233.60	LELB
1103	1076901.5441	566585.7417	232.28	LELB
1104	1076839.5451	566575.7587	233.09	LELB
1105	1076724.5604	566557.8479	239.53	LELB
1106	1076673.7309	566552.5647	240.03	LELS
1107	1076659.7163	566878.2053	240.66	LELS
1108	1076709.1762	566894.4654	238.80	LELB
1109	1076810.4567	566926.2543	231.69	LELB
1110	1076883.4504	566947.6182	230.24	LELS
1111	1076956.8263	566971.3415	230.49	LELS
1112	1077044.4817	566997.3026	232.72	LELB

1113	1077140.9967	567029.2499	229.83	LELS
1114	1077189.6027	567042.4031	228.34	LELB
1115	1077217.4893	567051.8495	225.57	LELB
1116	1077249.8185	567062.5676	224.65	LELB
1117	1077262.1102	567067.2117	221.77	LELB
1118	1077292.8431	567075.3515	222.78	LELB
1119	1077322.6121	567083.1106	220.60	LELB
1120	1076093.2508	563610.9340	246.13	LELB LAWA
1122	1076081.8012	563609.3538	248.78	LELB LAWA
1123	1076075.7093	563611.6987	248.63	PE
1124	1076022.7048	563791.1973	244.98	LABL LAWA
1125	1076017.8989	563790.1225	245.01	LELB
1126	1076004.6233	563780.2479	248.75	LAWA LELB
1127	1076000.4999	563778.7877	248.67	PE
1128	1075903.2326	563998.6252	248.35	PE
1129	1075908.3060	564000.3464	247.84	LAWA LELB
1130	1075917.2288	564009.3865	245.09	LELB LAWA LABL
1131	1077284.0301	563420.8570	236.51	LAWA LELB
1132	1077293.1086	563426.2993	228.18	LELB
1133	1077303.7752	563429.4343	225.04	LELB LAWA
1134	1077306.3874	563433.2851	219.34	LAWE
1135	1077306.8430	563433.9889	218.23	RB
1136	1077321.2214	563430.0072	217.83	RB
1137	1077325.4040	563444.8289	217.68	RB
1138	1077352.3618	563455.5867	218.45	RB CL 0.8' DEEP
1139	1077394.3612	563469.7159	218.49	RB
1140	1077419.4386	563481.5869	218.30	RB
1141	1077434.6904	563481.6752	219.30	LAWE
1142	1077441.3357	563482.7913	220.63	LELB LAWA
1145	1077102.5203	560933.6768	256.62	PE
1146	1077108.7255	560936.3936	255.53	LELB
1147	1077113.1200	560941.7233	252.78	DD
1148	1077118.5431	560948.2738	256.07	LELB
1149	1077127.4046	560958.0770	254.75	LELB
1150	1077199.4450	561032.7680	251.72	LELS
1151	1077269.4283	561108.8416	250.70	LELS
1152	1077311.3251	561151.7980	250.20	LELB
1153	1077393.6049	561238.7505	252.41	LELS
1154	1077461.7657	561311.3168	253.16	LELB
1155	1077509.4338	561362.5147	252.44	LELB
1156	1077570.8048	561428.0758	249.60	LELB
1157	1077624.4243	561482.6333	247.02	LELB
1158	1077674.6821	561535.4091	242.90	LELS
1159	1077710.1378	561573.8127	241.11	LAWA LELB
1160	1077712.2973	561575.2472	240.35	LAWE
1161	1077711.9928	561577.2505	239.98	RB CL 0.2' DEEP
1162	1077712.1487	561578.9452	240.22	LAWE
1163	1077728.5994	561592.1727	240.52	LAWA LELB
1164	1077794.8839	561664.5644	241.90	LELS
1165	1077862.4016	561735.2779	245.15	LELS
1166	1077930.1439	561805.2402	250.85	LELS
1167	1077980.8193	561861.1801	255.37	LELB

1168	1078001.0375	561882.0927	254.68	LELB
1169	1078077.6417	561963.1056	244.51	LELB
1170	1078150.0294	562039.9711	241.20	LELS
1171	1078232.2326	562125.0795	244.02	LELB
1172	1078308.6042	562207.3783	243.82	LELS
1173	1078390.0050	562294.0034	243.91	LELS
1174	1078427.0985	562333.4293	244.61	LELS
1175	1078499.7419	562409.0672	244.66	LELS
1176	1078720.0444	562641.2793	241.29	LELS
1177	1078789.9453	562714.3214	240.34	LELS
1178	1078813.7449	562740.9235	241.40	LELB
1179	1078877.1482	562807.9468	241.46	LELB
1180	1079022.7468	562914.2410	240.81	LELS
1181	1079073.7005	562938.5571	241.72	LELB
1182	1079151.3757	562979.0352	240.77	LELS
1183	1079217.8010	563014.0487	242.00	LELB
1184	1079165.9423	563503.1711	238.38	LELS
1185	1079100.3600	563424.9098	239.09	LELB
1186	1079034.5616	563345.2330	239.69	LELB
1187	1078966.5403	563267.6459	240.08	LELS
1188	1078898.2405	563186.1149	239.20	LELS
1189	1078828.1569	563105.2396	239.13	LELS
1190	1078805.0003	563075.2841	239.30	LELB
1191	1078779.6253	563045.8945	237.86	LELB
1192	1078686.5791	562936.5013	238.64	LELS
1193	1078634.4220	562906.3890	239.29	LELB
1194	1078613.6479	562895.1826	239.21	LELB
1195	1078597.1330	562886.7805	237.76	LELB
1196	1078440.9268	562801.5565	241.65	LELS
1197	1078597.4523	562508.7701	245.03	LELS
1198	1078329.0562	562744.3966	242.35	LELS
1199	1078306.4927	563322.7984	238.70	LELB
1200	1078208.9390	563270.4976	238.24	LELS
1201	1078115.3380	563217.3280	238.79	LELS
1202	1076299.7245	562956.7301	237.90	LAWA LELB
1203	1076289.3424	562960.9350	245.11	LELB
1204	1076278.6806	562967.1423	247.69	LELB
1205	1076245.8095	562983.3102	248.21	LELB
1206	1076232.5675	562985.9428	256.54	LELB
1207	1076224.2526	562987.0716	257.74	LELB LAWA
1208	1076786.1181	562502.2999	237.03	LELB LAWA
1209	1076785.8820	562488.0856	233.74	LELB
1210	1076786.9610	562470.3825	224.17	LELB
1211	1076790.8329	562456.9965	224.69	LELB
1212	1076794.0529	562434.9616	224.19	LELB LAWA
1213	1076790.7289	562429.1551	219.92	LAWE
1214	1076790.5172	562423.0200	217.84	RB
1215	1076792.7590	562402.4733	217.25	RB
1216	1076793.4328	562379.2415	217.09	RB CL 2.6' DEEP
1217	1076794.1670	562357.4853	216.59	RB
1218	1076795.9359	562341.4823	216.09	RB
1219	1076798.5880	562321.0924	216.19	RB

1220	1076799.6275	562314.4971	219.70	LAWE LAWA
1221	1076801.6049	562301.0389	231.29	LELB
1222	1076805.8980	562278.1532	240.36	LELB
1223	1076807.0668	562269.8739	241.42	LELB
1224	1076813.4707	562224.3023	241.26	LAWA
1225	1077166.2691	562655.3587	238.38	LELB LAWA
1226	1077191.1216	562635.5536	232.00	LELB
1227	1077201.0369	562630.1329	224.56	LELB
1228	1077219.1617	562616.4416	222.97	LELB LAWA
1229	1077382.7258	562964.3681	238.02	LELB LAWA
1230	1077390.0926	562963.4136	236.82	LELB
1232	1075736.9930	564371.8608	248.59	PE
1233	1075741.7851	564372.5161	248.02	LELB LAWA
1234	1075749.6046	564382.8317	243.96	LAWA
1235	1075754.9854	564388.7816	243.69	LAWA LABL
1236	1075832.4743	564466.3747	242.57	LABL
1237	1075859.9749	564486.3199	242.77	RDU
1238	1075868.4519	564493.4591	242.61	RDU
1239	1075890.5537	564511.9454	241.80	LELB
1240	1075920.5200	564536.3022	236.40	LELB
1241	1075949.7404	564563.4462	234.92	LELS
1242	1075957.2954	564589.4178	233.93	LELB
1243	1075958.7444	564595.6298	234.48	LELB LAWA
1244	1075966.4838	564627.1878	227.59	LAWA
1245	1075974.5884	564640.7047	218.39	RB
1246	1075974.8707	564642.0717	215.05	RB
1247	1075978.5740	564652.8355	215.45	RB
1248	1075982.8250	564662.2799	216.34	RB
1249	1075987.3879	564673.0154	215.83	RB
1250	1075990.6966	564698.1981	215.80	RB CL 2.9' DEEP
1251	1075993.3395	564729.7474	216.62	RB
1252	1076001.5874	564752.8824	217.00	RB
1253	1076001.3103	564756.2336	218.71	LAWE
1254	1076006.3033	564765.4405	226.94	LAWA
1255	1076016.2066	564784.7453	233.37	LELB LAWA
1256	1076020.1682	564800.5283	234.86	LAWA
1257	1076038.3616	564857.9986	236.37	LAWA
1258	1076064.3385	564944.1805	236.57	LAWA
1259	1076570.8489	564656.2359	237.50	LAWA
1260	1076568.0273	564648.3042	237.56	LAWA LELB
1261	1076565.2194	564632.0955	226.91	LAWA
1262	1076561.8243	564619.9349	218.89	LAWA
1263	1076558.1974	564613.1304	217.12	RB
1264	1076555.0406	564597.9370	216.14	RB
1265	1076547.3422	564583.3307	215.30	RB CL 3.6' DEEP
1266	1076537.7664	564555.2102	216.58	RB
1267	1076530.5226	564539.9555	216.70	RB
1268	1076523.2079	564522.8684	216.67	RB
1269	1076521.5733	564518.4542	218.71	LAWE
1270	1076518.7444	564506.8010	229.00	LAWA
1271	1076515.7337	564501.4371	230.46	LAWA
1272	1076512.4724	564493.7236	234.21	LAWA

1273	1076818.6390	564286.3153	235.29	LELB LAWA
1274	1076832.0409	564296.3427	224.02	LELB
1275	1076833.8725	564299.2802	221.00	LELB
1276	1076837.4369	564300.6794	220.76	LELB
1277	1076841.1326	564302.6702	218.99	LAWE
1278	1076844.9490	564309.8564	217.34	RB
1279	1076854.6054	564311.2102	217.50	RB
1280	1076885.7941	564323.9919	217.88	RB
1281	1076915.9151	564337.0243	216.75	RB CL 2.2' DEEP
1282	1076937.7295	564345.3778	216.12	RB
1283	1076953.8919	564352.2691	217.31	RB
1284	1076959.3675	564358.1394	218.99	LAWE
1285	1076966.7138	564362.0660	228.21	LELB
1286	1076981.3047	564368.1812	235.96	LELB
1288	1077530.1962	563552.0236	240.36	LELS
1289	1077673.1206	563629.5686	239.88	LELS
1290	1077784.6245	563686.5336	238.52	LELS
1291	1077877.8345	563736.4232	236.75	LELB
1292	1077903.9941	563750.6673	235.07	LELB
1293	1078010.9970	563807.6509	234.13	LELS
1294	1078053.5707	563828.5725	234.37	LELS
1295	1077840.1072	564912.4054	229.83	LELS
1296	1077708.0746	564832.3185	231.54	LELS
1297	1077575.9572	564748.9693	233.88	LELS
1298	1077440.3259	564664.9013	234.91	LELS
1299	1077321.5410	564593.1207	235.97	LELS
1300	1077232.4264	564537.9688	236.44	LELS
1301	1077124.6351	564470.1579	236.94	LELS
1302	1077060.9073	564430.0717	236.91	LELB
1303	1076611.2053	564951.3445	235.60	LAWA
1304	1076492.9466	564956.5039	236.82	LELS
1305	1076329.1528	564967.2113	236.82	LELS
1306	1076193.4477	564974.4624	235.51	LELS
1307	1076074.8273	564979.7035	236.28	LELS
1308	1076024.7198	564984.7426	236.80	LELB
1309	1075965.3621	564987.4870	236.49	LELB
1310	1075906.8624	564991.3636	234.55	LELS
1311	1076042.2686	565118.8723	233.34	LELS
1312	1076056.1486	565064.8856	234.40	LELS
1313	1076068.1181	565012.5197	235.88	LELS
1314	1076697.9195	564783.4639	238.33	LELS
1315	1076611.0177	564699.9912	237.96	LELS
1316	1076823.3954	562054.6349	244.08	LELB
1317	1076831.8373	561969.8122	245.95	LELB
4001	1075957.6768	562792.3821	265.53	LELS
4002	1076189.4794	563012.1959	258.00	LELS
4003	1076181.6716	563237.3956	249.84	RDU
4004	1076127.3166	563612.1107	244.85	LELS
4005	1076237.4480	563609.0501	244.38	LELS
4006	1076316.7022	563606.6697	244.48	LELB
4007	1076382.2646	563604.6072	237.79	LELB
4008	1076543.8353	563599.1427	237.53	LELS

4009	1076683.7703	563595.9132	235.52	LELS
4010	1076807.6954	563666.7269	236.41	LELS
4011	1076927.9337	563736.5572	236.08	LELS
4012	1077059.0162	563813.8819	237.16	LAWA LELB
4013	1076032.3478	564104.5958	244.05	LABL
4014	1076099.4275	564150.0903	245.13	LELB
4015	1076184.5862	564217.3966	236.20	LELB
4016	1076307.5731	564314.0105	233.43	LELS
4017	1076428.9324	564409.6113	235.52	LELS
4019	1077304.0130	567010.1002	229.72	LELS
4020	1077314.0970	567001.1636	229.91	LAWA
4022	1077302.6210	563956.3389	237.95	LELB
4023	1077311.2978	563960.2987	234.78	LELB
4024	1077438.8292	564033.0622	235.21	LELS
4025	1077562.5647	564107.7632	236.92	LELS
4026	1077688.7060	564179.7899	236.42	LELS
4027	1077812.7931	564252.1245	233.19	LELS
4028	1077939.7236	564325.9743	232.59	LELS
4029	1076576.7259	567198.6879	240.69	LELS
4030	1076682.5661	567303.9283	232.44	LELB
4031	1076724.4463	567340.3556	230.57	LELB
4032	1076734.4840	567347.7853	230.24	LAWA LELB
4033	1076747.3974	567362.9319	226.54	LELB
4034	1076764.1327	567370.7049	216.55	LAWE
4035	1076767.2925	567376.8626	214.18	RB
4036	1077154.4760	567102.5275	227.69	LELS
4037	1077157.4871	567131.4308	225.16	LELB
4038	1077154.8673	567148.5733	225.54	LELB
4039	1077159.8352	567164.3870	224.00	LELB
4040	1077161.6356	567169.4159	226.69	LELB
4041	1077164.9662	567213.7116	231.39	LELB LAWA
4042	1077167.6357	567226.4077	230.07	LELB
4043	1077166.2708	567234.3421	227.73	LELB
4044	1077401.2921	567107.5882	230.24	LELB LAWA
4045	1077427.4223	567116.5943	228.40	LELB
4046	1077439.3111	567136.0501	231.19	LELB
4047	1077352.9470	566967.2292	230.19	LELB
4048	1077359.6795	566960.2206	229.92	LELB LAWA
4050	1077232.9051	566634.3007	227.46	LELB
4051	1077239.2488	566636.7565	218.20	LAWE
4054	1077381.4862	566353.2640	221.99	LELB
4055	1077406.6556	566372.3636	224.06	LELB
4056	1077411.7103	566378.8985	218.42	LAWE
4058	1077514.7424	566218.6670	223.88	LELB
4059	1077521.6922	566219.9279	218.92	LAWE LAWA
4060	1077532.5620	566224.7462	216.76	RB
4061	1077568.2538	566236.1889	216.57	RB CL 2.2' DEEP
4062	1077601.0437	566251.9904	216.08	RB
4063	1077616.5517	566254.1727	218.80	LAWE
4064	1077626.5290	566257.0667	221.17	LELB LAWA
4065	1077660.1119	566269.9490	225.34	LELB
4066	1077491.0535	566101.2514	228.54	LELB

4067	1077497.3558	566097.6666	224.20	LELB
4068	1077506.0330	566099.4135	218.74	LAWE LAWA
4069	1077514.5488	566091.5654	216.21	RB
4070	1077550.6109	566085.7092	215.56	RB CL 3.3' DEEP
4071	1077606.6532	566079.9818	215.15	RB
4072	1077624.4893	566072.1574	216.61	RB
4073	1077631.8287	566067.6236	218.83	LAWE
4074	1077648.9503	566072.5036	226.97	LELB LAWA
4075	1077655.6963	566068.4522	228.80	LELB
4076	1077673.7842	566063.8305	228.93	LAWA
4077	1077544.3540	565934.8284	229.62	LELB
4078	1077536.4382	565937.9306	226.50	LELB LAWA
4079	1077525.7695	565942.8711	218.95	LAWE LAWA
4080	1077420.0688	566029.8929	232.68	LELB LAWA
4081	1077439.5793	566015.4185	220.97	LELB
4082	1077442.3566	566010.2048	220.45	LELB
4083	1077443.2416	566008.0404	219.00	LAWE LAWA
4084	1077149.6148	565853.8406	233.91	LAWA LELB
4085	1077155.7023	565849.4752	230.92	LELB
4086	1077163.2420	565843.6275	224.30	LELB
4087	1077162.7297	565840.4608	219.05	LAWE LAWA
4088	1076575.3644	565629.6887	236.82	LELS
4089	1076493.6573	565664.9140	237.14	LELS
4090	1076431.9834	565688.4257	238.40	LELS
4091	1076349.4226	565717.3820	241.18	LELS
4092	1076244.9347	565761.1072	240.68	RDU
4093	1076229.7324	565767.0494	240.89	RDU
4094	1076134.5366	565802.9993	241.60	LELS
4095	1075974.4115	565867.7953	243.81	LELS
4096	1075883.5904	565904.2029	244.77	PE
4098	1079171.3937	564117.3877	234.94	LELS
4099	1079284.2414	564182.1609	236.65	LELB LAWA
4100	1079274.1706	564177.5122	234.26	LELB
4101	1079323.3673	564198.3650	264.66	LELB
4102	1078976.5943	564001.8131	235.13	LAWA
4103	1078941.7309	563982.0865	235.83	LELS
4104	1078903.6498	563935.3159	235.72	LELS
4105	1078896.8996	563921.8130	241.59	LELB
4106	1078888.7188	563909.9328	233.40	LAWE
4107	1078844.8566	564248.3507	233.62	LELB LAWA
4108	1078838.8817	564248.4942	231.53	DD
4109	1078833.4365	564245.9238	233.54	LELB
4110	1078740.0866	564192.5632	234.16	LELS
4111	1078716.6503	564176.8206	234.52	LELB
4112	1078714.2534	564175.9526	230.06	LELB
4113	1078666.2220	564145.7630	237.69	LELB
4114	1078961.7122	564304.9279	234.37	LELS
4115	1079045.2255	564352.9216	232.54	LELS
4116	1079128.6554	564396.8768	233.76	LELB
4117	1079131.3828	564402.2004	237.47	RDU
4118	1079146.8905	564410.3050	237.51	RDU LELB
4119	1079161.5063	564418.7908	247.82	LELB

4120	1079197.7234	564433.3683	259.25	LELS
4122	1078933.6779	564900.8869	232.12	LELS
4123	1078731.2031	564787.3361	232.34	LELS
4124	1078600.5491	564707.2260	230.30	LELB
4125	1078582.6843	564698.5211	232.01	LELB LAWA
4127	1078601.2721	564107.8691	234.40	LELS
4128	1078573.6242	564092.8150	235.76	LELB
4129	1078515.7697	564062.0530	233.72	LELB
4131	1079039.1753	564966.9739	232.67	LELB
4132	1079097.0166	564996.0647	230.47	LELB
4133	1079136.0670	565018.2308	235.04	RDU LELB
4134	1079147.7663	565030.4573	234.44	LELB RDU
4135	1079241.0648	565085.8792	255.92	LELS
4136	1078581.1255	564685.2653	230.14	LELB
4137	1078530.3450	564658.2557	230.77	LELS
4138	1078464.6138	564632.4635	229.71	LELS
4139	1078271.9160	564969.9482	229.96	LAWA
4140	1078218.1395	564952.7176	229.28	LELB
4141	1078212.2907	564944.4115	225.25	LAWE
4142	1078207.6330	564943.2402	222.82	RB
4143	1078188.8573	564940.7588	224.64	RB CL 0.6' DEEP
4144	1078178.5211	564939.3896	225.33	LAWE
4145	1078169.3334	564938.1234	227.23	LELS
4146	1078167.6531	564937.4830	225.35	LAWE
4158	1079175.0947	565289.1382	278.12	LELB
4159	1079084.8492	565254.5478	232.94	RDU LELB
4160	1079072.0620	565250.3885	232.79	RDU
4161	1079006.6528	565232.1737	230.20	LELB
4162	1078996.2429	565226.1936	230.95	LELB
4163	1078919.4510	565198.6917	232.38	LELB
4164	1078748.5789	565133.1723	232.39	LELS
4165	1078537.7643	565065.8478	232.64	LELS
4168	1078077.2593	565383.6671	225.64	LELB
4169	1078068.8937	565383.1776	224.42	LELB
4170	1078043.3452	565371.9219	224.98	LELS
4171	1078010.2940	565361.5106	223.64	LAWE
4172	1078005.8682	565359.3406	221.67	RB
4173	1077969.8616	565343.0821	220.94	RB CL 2.7' DEEP
4174	1077954.9426	565330.8275	223.39	LAWE
4175	1077951.8609	565328.3601	225.19	LELB
4176	1077932.6715	565318.5752	230.27	LELB
4177	1077897.9251	565304.5251	227.48	LELB
4178	1077847.7130	565283.4098	228.15	LELS
4179	1077886.1629	565399.9227	227.43	LELB
4180	1077828.1819	565400.8769	228.07	LELS
4181	1077900.5847	565415.1902	230.35	LELB
4182	1077906.1217	565414.8442	222.81	LAWE
4183	1077919.0937	565415.2411	222.54	RB
4184	1077936.9266	565419.8010	222.48	RB CL 0.7' DEEP
4185	1077956.8697	565426.2553	221.19	RB
4186	1077967.5258	565429.6263	223.17	LAWE
4187	1077971.2702	565430.7304	224.18	LELB



4188	1078028.1986	565444.8222	225.59	LELB
4189	1078186.4899	565504.5651	227.87	LELS
4190	1078378.8262	565577.7933	229.66	LELS
4191	1078545.5499	565634.4909	229.39	LELS
4192	1078662.0769	565672.6618	230.40	LELS
4193	1078759.6538	565711.8188	228.88	LELB
4194	1078777.4371	565726.3056	230.85	RDU LELB
4195	1078792.6691	565729.2669	231.52	RDU LELB
4196	1078824.3102	565743.8582	241.35	LELS
4197	1078823.9691	565664.9039	232.12	RDU LELB
4198	1078876.1765	565690.9182	238.79	LELS
4199	1078807.5965	565661.0169	231.79	RDU LELB
4200	1078804.8299	565660.0556	230.61	LELB
4201	1078740.2685	565630.8208	229.82	LELB
4202	1078554.9937	565561.7482	230.43	LELS
4203	1078338.0415	565482.9524	230.25	LELS
4204	1078194.6258	565429.6997	226.49	LELB
4205	1077962.8477	565692.0867	226.43	LELB
4206	1078003.3626	565704.2897	224.34	LELB
4207	1078026.1127	565712.4865	226.55	LELB
4208	1078226.7129	565781.2104	228.88	LELS
4209	1078415.6758	565847.7242	228.93	LELS
4210	1078482.3303	565875.4035	229.30	LELS
4211	1078535.7167	565895.8874	229.12	LELB
4212	1078551.0130	565905.6622	233.37	LELB RDU
4213	1078567.2568	565912.2964	233.18	LELB RDU
4214	1078586.4427	565915.5892	241.88	LELB
4215	1078612.7767	565923.6182	246.19	LELS
4217	1077933.7735	565679.7594	226.68	LELB
4218	1077929.2457	565676.9396	222.42	LAWE
4219	1077919.7562	565669.6502	220.47	RB CL 12.0' DEEP
4220	1077911.6105	565666.0854	222.38	LAWE
4221	1077908.6162	565665.4758	223.00	LELS
4222	1077907.0878	565664.9579	222.43	LAWE
4223	1077892.8161	565661.5917	219.06	RB
4224	1077873.1667	565655.0697	220.80	RB CL 1.6' DEEP
4225	1077857.0554	565646.8745	219.49	RB
4227	1077845.8428	565647.0917	222.42	LAWE
4228	1077845.1073	565644.4338	223.95	LELB
4229	1077828.3228	565633.3601	228.58	LELB
4230	1077711.5740	565861.9266	226.31	LELB
4231	1077660.7614	565848.0303	225.70	LELS
4232	1077718.4233	565862.4771	221.25	LAWE
4233	1077722.2777	565863.1489	218.64	RB
4234	1077733.2948	565866.0622	218.87	RB CL 2.5' DEEP
4235	1077741.7285	565866.3660	220.21	RB
4236	1077747.4646	565865.5546	221.37	LAWE
4237	1077765.8184	565866.1745	222.21	LELS
4238	1077793.1452	565865.6050	221.72	LAWE
4239	1077798.4246	565865.8718	220.77	RB
4240	1077808.5554	565867.9155	220.78	RB CL 0.5' DEEP
4241	1077824.3711	565868.2805	221.31	LAWE

4242	1077832.0035	565873.9011	224.54	LELB
4243	1077877.0368	565885.9467	224.89	LELB
4244	1077901.0776	565886.6721	226.01	LELB
4245	1077923.6068	565870.3728	224.83	LELB
4246	1078096.4123	565931.9392	227.01	LELS
4247	1078182.9056	565957.2639	227.92	LELS
4248	1078256.3264	565979.2408	228.08	LELS
4249	1078362.8893	566017.4866	226.97	LELB
4250	1078388.1394	566029.3885	229.65	LELB
4251	1078500.0797	566063.3611	232.22	LAWA
4252	1078538.4276	566069.1701	235.17	LELB
4253	1078545.6184	566070.9982	239.13	LELB
4254	1078552.6416	566077.9469	240.01	RDU
4255	1078570.0320	566087.2455	240.33	LELB RDU
4256	1078579.7896	566089.8051	244.56	LELS
4257	1078458.3072	566234.6803	243.34	LELS
4258	1078245.2349	566150.9444	233.39	LELB
4259	1078202.5227	566140.3051	230.37	LELB
4260	1078154.1100	566127.9424	226.26	LELB
4261	1078092.0933	566108.2888	227.62	LELS
4262	1077929.7555	566051.1742	226.59	LELB
4263	1077912.6916	566044.4159	223.64	LELB LAWA
4264	1077885.3750	566035.8560	224.43	LELB
4265	1077873.4328	566028.2576	223.78	LELS
4266	1077849.3449	566036.3240	223.52	LELB
4267	1077840.8618	566037.7686	220.33	LAWE
4268	1077832.4233	566038.0711	219.97	RB
4269	1077813.1551	566040.2269	219.13	RB
4270	1077803.2244	566040.7857	218.24	RB CL 2.1' DEEP
4271	1077788.9756	566043.3678	220.12	LAWE
4272	1077788.1558	566042.2124	220.81	LELB
4273	1077778.7615	566045.9120	221.27	LELB
4274	1077769.2079	566049.4876	224.23	LELB
4275	1077758.6658	566051.5202	223.68	LELB
4276	1077741.0190	566055.8127	230.03	PE
4277	1077718.1020	566059.0352	230.78	PRC
4278	1077693.7626	566062.3933	230.25	PE
4279	1077546.9170	565931.4733	230.16	PE
4280	1077559.4838	565916.8707	230.73	PRC
4281	1077572.2033	565903.1123	229.96	PE
4282	1077580.7264	565901.1279	228.63	LELB LAWA
4288	1077788.5024	566100.7868	230.52	BWW
4289	1077790.2299	566101.4986	220.06	LAWE
4290	1077792.1302	566103.0045	217.56	RB
4291	1077801.7048	566112.5758	216.04	RB CL 4.4' DEEP
4292	1077815.6220	566124.3214	216.40	RB
4293	1077818.1813	566126.5009	220.39	LAWE
4294	1077818.7809	566127.2384	230.63	BWW
4295	1077819.8017	566128.0375	230.65	BWW
4296	1077826.2925	566133.1363	230.73	LELB
4297	1077810.5451	566165.6558	230.21	LELS
4298	1077805.8783	566160.8245	230.51	BWW

4300	1077803.8166	566159.1434	220.38	LAWE
4301	1077802.2477	566157.4915	217.75	RB
4302	1077792.2931	566148.7028	217.36	RB CL 3.0' DEEP
4303	1077777.4924	566135.7564	218.67	RB
4304	1077774.7530	566133.7340	220.31	LAWE
4307	1077767.6133	566127.4594	230.65	LELS
4308	1078358.9567	566471.2967	241.47	LELS
4309	1078367.3779	566435.4439	239.91	LELS
4310	1078376.2574	566383.1925	240.58	LELS
4311	1078286.0866	566362.7646	236.98	LELS
4312	1078284.2517	566404.8150	237.37	LELS
4313	1078336.4801	566467.4200	240.20	LELB
4314	1078312.5827	566460.2877	238.21	LELB
4315	1078301.8641	566453.8330	237.91	RDU
4316	1078289.2481	566451.2525	237.33	RDU
4317	1078177.4066	566415.5231	235.22	LELB
4318	1078168.2922	566370.1270	234.70	LELB
4319	1078160.4137	566332.1554	233.72	LELB
4323	1078084.2721	566314.9937	227.95	LELB
4324	1078094.7786	566350.0396	228.42	LELB
4325	1078097.2404	566385.9660	229.14	LELB
4326	1078068.5347	566381.5141	228.06	LELB
4327	1078064.0623	566379.9419	226.59	DD
4328	1078039.6177	566340.8826	225.47	DD
4329	1078044.9890	566340.6308	227.44	LELB
4333	1078021.7361	566296.6166	225.49	LELB
4334	1078013.7548	566295.5635	224.26	DD
4335	1077986.1960	566290.1362	230.56	LELB
4336	1077979.0387	566289.4758	231.44	PE
4337	1078007.5450	566328.5665	231.98	PE
4338	1078017.5012	566329.8830	230.96	LELB
4339	1078043.7146	566369.3458	231.41	LELB
4340	1078035.1533	566369.8668	232.20	PE
4341	1078010.7472	566365.8203	231.49	PRC
4342	1077985.3019	566362.2947	230.10	PE
4343	1077956.1407	566320.9651	230.18	PE
4344	1077979.0082	566320.7778	231.36	PRC
4345	1077964.6191	566270.7308	231.33	PE
4346	1077950.1875	566282.1458	231.08	PRC
4347	1077935.7009	566294.4705	229.93	PE
4348	1077899.0887	566251.7417	230.24	PE
4349	1077913.0443	566239.6161	231.11	PRC
4352	1077925.9314	566226.0366	231.18	PE
4353	1077888.0402	566188.5174	230.90	PE
4354	1077874.8532	566200.8208	231.13	PRC
4355	1077861.4755	566215.4585	230.48	PE
4357	1077818.0689	566148.9132	231.25	PRC
4358	1077826.9778	566137.2650	231.13	PE
4360	1077799.9329	566132.1767	231.29	PRC
4361	1077799.2071	566131.4347	231.29	PRC
4364	1077777.9214	566112.9567	231.31	PRC
4366	1077759.1361	566073.9633	230.33	PE

4367	1077748.4669	566086.3190	231.04	PRC
4368	1077736.7414	566099.8992	230.70	PE
4370	1077772.7914	566132.4194	230.60	BWW1
4378	1077773.8834	566133.0513	230.56	BWW1
4381	1077804.5618	566159.9058	230.57	BWW2
4395	1077787.6599	566099.6718	230.53	BWW4
4401	1078299.7588	566601.6906	244.16	LELS
4402	1078216.9472	566567.8704	236.71	LELS
4403	1078147.6591	566536.4759	233.85	LELB
4404	1078136.1192	566531.0322	232.60	LELB
4405	1078124.6487	566527.3997	232.95	RDU
4406	1078112.7279	566527.5334	232.66	PE
4407	1078093.1809	566527.6966	232.19	PRC
4408	1078072.3705	566528.0183	230.53	PE
4409	1078066.3741	566522.6502	230.41	LELB
4410	1078053.4638	566520.6080	233.50	LELB
4411	1078011.3870	566508.6406	232.34	LELB
4412	1077981.8731	566488.1603	228.00	LELB
4413	1077924.5221	566475.0986	224.82	LELB
4414	1077862.1378	566450.3806	224.54	LELS
4415	1077756.7310	566343.5502	225.79	LELB
4416	1077831.3519	566551.4242	229.23	LELS
4417	1077877.7396	566576.3388	232.31	LELB
4418	1077929.5971	566595.8762	232.98	LELS
4419	1078005.6844	566618.8598	233.82	LELB
4420	1078096.6686	566650.9518	233.11	LELB
4421	1078121.4796	566659.8813	233.50	PE
4422	1078147.1761	566675.5443	234.77	PRC
4423	1078169.4425	566681.5608	234.16	PE
4424	1078171.8120	566682.0215	233.88	LELB
4425	1078176.1020	566684.4303	232.07	DD
4426	1078182.7825	566688.7764	235.58	LELB
4427	1078230.5869	566685.7402	240.54	LELS
4429	1078250.6892	566692.2060	242.31	LELS
4431	1077456.2667	563509.2612	236.58	LAWA LELB
4432	1077471.9585	563517.6166	237.40	LELB
4433	1077479.7456	563520.5584	237.26	PE
4434	1077495.7978	563533.0159	238.94	PRC
4435	1077512.6560	563540.1739	239.52	PE
4436	1077301.2269	563956.3299	238.39	PE
4437	1077284.4945	563948.5158	238.95	PRC
4438	1077267.5160	563939.9134	238.01	PE
4439	1077263.4904	563938.0622	237.33	LELB
4440	1077254.3384	563933.4603	233.27	LELB
4441	1077239.4743	563926.1286	232.19	LAWA
4442	1077007.1076	564398.7151	235.30	LAWA LELB
4444	1077022.5432	564405.2615	238.78	PE LELB
4445	1077038.7378	564413.6150	239.50	PRC
4446	1077055.5874	564422.6653	238.82	PE
4447	1077228.2377	563914.6257	231.04	LELB
4448	1077202.5392	563897.3968	219.45	LAWE LELB
4449	1077191.5490	563887.3203	217.97	RB

4450	1077156.3454	563866.0136	217.77	RB CL 1.7' DEEP
4451	1077125.2359	563849.8084	217.06	RB
4452	1077107.9447	563838.1270	219.10	LAW E LELB
4453	1077098.3263	563833.1622	227.84	LELB
4454	1077082.0762	563822.1930	229.24	LELB
4455	1078071.2843	564408.0232	232.47	LELB LAWA
4456	1078094.7626	564424.0352	233.53	LELB
4457	1078104.4977	564433.1210	226.88	RB
4459	1078114.3034	564437.8816	227.45	RB
4460	1078132.8899	564445.8119	227.79	RB CL 0.3' DEEP
4461	1078150.0575	564456.9058	227.09	RB
4462	1078157.4678	564464.5468	228.09	LAW E
4463	1078162.4434	564466.0239	231.50	LELB
4464	1078264.1577	564490.6265	232.30	LELB
4465	1078094.2380	564428.3721	228.23	LAW E
4467	1078011.1770	563145.3757	237.01	LELB
4468	1077915.9124	563098.2946	241.22	LELB
4469	1077867.5691	563064.2018	241.57	RDU
4470	1077854.0921	563056.9412	241.70	RDU
4471	1077769.7165	563006.3961	241.60	PE
4472	1077652.2910	562936.0461	241.78	LELS
4474	1077608.2179	562914.4466	241.88	PE
4475	1077590.3138	562919.3926	241.20	PRC
4476	1077572.1086	562923.9223	239.70	PE
4477	1077564.3291	562925.6268	238.73	LELB
4478	1077543.3727	562931.9747	226.46	LELB
4479	1077536.2696	562934.4998	220.20	LAW E
4480	1077532.9896	562935.8535	217.14	RB
4481	1077509.6132	562939.0439	215.77	RB
4482	1077480.7319	562947.5159	217.38	RB CL 2.8' DEEP
4483	1077451.1674	562958.8950	216.78	RB
4484	1077425.3459	562967.7394	217.17	RB
4485	1077421.6004	562969.5887	219.96	LAW E
4487	1077523.1302	562314.0887	242.38	LELS
4488	1077564.6273	562328.0723	241.12	LELB
4489	1077615.4499	562350.1346	241.01	LELB
4490	1077816.1446	562462.0386	242.49	LELS
4491	1077885.1215	562500.1723	242.76	LELS
4492	1078036.4262	562573.1013	243.22	LELS
4493	1078135.1513	562626.8147	243.63	LELS
4494	1077509.9906	562329.0697	241.65	LELB
4495	1077497.4033	562342.2383	239.42	LELB
4496	1077473.8801	562361.1895	239.37	LELB
4497	1077467.1053	562365.7091	238.76	DD
4498	1077463.1712	562369.4593	240.30	LELB
4499	1077448.1438	562380.6257	241.95	PE
4500	1077434.0363	562392.2904	242.18	PRC
4501	1077418.0446	562403.6383	241.38	PE
4502	1077415.5120	562411.1138	240.73	LELB
4503	1077413.2289	562415.2644	239.17	DD
4504	1077407.5954	562423.4458	241.53	LELB
4505	1077319.9005	562508.1445	241.89	LELB

4507	1077304.1026	562524.2701	227.02	LELB
4508	1077303.9006	562528.3448	220.19	LAWE
4509	1077289.4510	562533.9690	217.31	RB
4510	1077262.7549	562562.8275	217.05	RB CL 3.1' DEEP
4511	1077223.6425	562593.5954	219.11	RB
4512	1077217.9306	562599.1090	219.54	LAWE
4514	1076831.7618	561912.9913	246.54	LELB
4515	1076824.5153	561894.5619	249.34	LELB RDU
4517	1079191.5809	563541.6692	238.16	LAWA
4518	1079253.4961	563620.3708	238.42	LELB
4519	1079276.9850	563649.8180	238.98	LELB
4520	1079286.8488	563662.4175	234.87	LAWE
4521	1079291.7827	563668.6878	234.42	RB
4522	1079304.0529	563684.1147	232.29	RB
4523	1079321.5718	563706.7658	233.24	RB CL 1.3' DEEP
4524	1079337.6936	563727.1997	232.66	RB
4525	1079354.5693	563748.3288	233.01	RB
4526	1079361.2263	563757.3138	234.54	LAWE
4527	1079361.8734	563758.2608	238.27	LELB
4528	1079429.5878	563807.9386	232.43	LELB
4529	1079533.2835	563831.2157	232.24	LELB
4530	1079552.2711	563854.3509	232.25	LELB
4531	1079568.8615	563866.7550	236.83	LELB
4532	1078079.7721	563854.4187	229.46	LELB LAWA
4533	1078087.7508	563859.7599	227.36	LELB
4534	1078110.9190	563863.1125	227.58	LAWE
4535	1078118.9565	563866.8590	226.19	RB
4536	1078129.0933	563870.8375	226.14	RB CL 1.2' DEEP
4537	1078137.7104	563873.8811	227.36	LAWE
4538	1078157.8983	563875.3632	229.89	LELB
4539	1078254.7702	563925.6372	229.58	LAWA
4540	1078320.6457	563977.1212	229.75	LELB
4541	1078345.0201	563986.9372	228.40	LELB LAWA
4542	1078371.1999	563996.4195	230.49	LELB
4543	1078387.9530	564003.6810	230.37	LELB
4544	1078394.8218	564003.7805	226.54	LAWE
4545	1078398.5992	564004.9898	222.56	RB
4546	1078413.8782	564015.6481	221.76	RB
4547	1078418.9952	564020.6604	226.81	LAWE
4548	1078419.6679	564021.5523	227.77	LELB
4549	1078431.5465	564028.0410	228.63	LELS
4550	1078440.7401	564041.1803	229.31	LELB
4551	1078452.0522	564040.5873	227.30	LAWE
4552	1078464.5901	564048.4827	226.25	RB
4553	1078477.9653	564058.6670	225.90	RB CL 1.4' DEEP
4554	1078495.3795	564063.2645	227.29	LAWE
4556	1078685.5595	563551.4809	237.24	LELS
4557	1078660.5488	563537.2671	237.24	LELB
4558	1078605.9730	563508.6301	236.16	LELB
4560	1078480.1719	563428.6788	237.19	LELB LAWA
4561	1078474.3640	563419.7321	233.51	LAWE
4562	1078463.7589	563410.0940	232.35	RB CL 1.2 DEEP

4563	1078453.2042	563397.7790	233.66	LAWE
4564	1078426.9617	563389.9985	237.30	LELB
4565	1078402.5181	563382.2584	246.89	LELB
4566	1078396.1090	563379.1303	244.66	LELB
4567	1078370.0660	563366.2291	243.49	LELB LAWA
4568	1078739.6295	563637.3742	237.54	LELS
4569	1078792.5343	563732.3652	235.49	LAWA
4570	1078829.1874	563792.6597	235.57	LELS
4572	1078844.2294	563824.0514	236.66	LELB
4573	1078855.4456	563841.1573	236.65	LELB
4574	1078856.7070	563843.6122	233.06	LAWE
4575	1078862.3216	563854.3832	232.06	RB
4576	1078874.5538	563871.3659	231.99	RB CL 1.4' DEEP
4577	1078885.6487	563888.2089	231.93	RB
4579	1076661.5611	565384.6509	241.91	BWW1
4580	1076659.4911	565385.8563	241.91	BWW1
4586	1076571.9345	565432.3584	241.92	BWW2
4587	1076574.1186	565431.2231	241.90	BWW2
4588	1076523.9418	565464.7396	240.50	PE
4589	1076474.3177	565491.3803	239.10	PE
4590	1076423.2756	565516.5761	238.36	PE
4591	1076374.1011	565536.7796	238.29	PE
4592	1076323.6859	565552.6744	238.84	PE
4593	1076275.5252	565566.4974	239.71	PE
4594	1076278.8736	565578.2744	239.89	PRC
4596	1076327.3370	565565.0254	239.12	PRC
4597	1076377.8996	565548.9481	238.61	PRC
4598	1076428.4517	565528.6762	238.58	PRC
4599	1076479.6184	565502.7481	239.23	PRC
4600	1076529.0355	565476.8142	241.00	PRC
4601	1076580.3114	565449.1372	241.57	PRC
4602	1076634.9622	565420.0233	241.69	PRC
4603	1076670.3239	565401.5021	241.60	PRC
4606	1076679.2536	565418.0615	241.92	BWW4
4607	1076677.0197	565419.2813	241.92	BWW4
4611	1076589.6072	565465.8195	241.92	BWW3
4612	1076591.8875	565464.6629	241.90	BWW3
4613	1076535.8386	565487.7411	240.82	PE
4614	1076486.2179	565514.2582	239.24	PE
4615	1076434.4013	565540.1536	238.34	PE
4616	1076382.8819	565560.0118	238.60	PE
4617	1076330.1907	565577.5221	239.10	PE
4618	1076282.2611	565590.4754	239.81	PE
4619	1076231.2840	565603.7402	240.36	PE
4620	1076173.9888	565619.2338	240.99	PE
4621	1076123.3959	565633.5302	242.00	PE
4623	1076566.9360	565434.4684	241.90	BWW2
4633	1076666.0244	565382.0367	242.03	BWW1
4635	1076658.4461	565385.9690	228.70	LELB
4636	1076651.3149	565389.7174	227.60	LELB
4644	1076684.0426	565415.9820	241.97	BWW4
4646	1076675.9401	565420.0592	224.46	LELB

4647	1076662.0754	565427.8854	222.93	LELB
4654	1076585.1101	565468.4508	241.90	BWW3
4657	1076221.0182	565581.2167	240.28	PE
4658	1076223.9962	565592.8381	240.35	PRC
4659	1076170.9441	565606.8986	241.10	PRC
4660	1076168.2424	565595.7738	240.98	PE
4661	1076117.1497	565610.4305	241.58	PE
4662	1076119.9404	565621.8129	241.79	PRC
4663	1076072.0746	565648.6060	242.41	PE
4664	1076068.2199	565637.1105	242.34	PRC
4665	1076065.0393	565626.1726	242.29	PE
4666	1076014.3903	565642.1861	242.69	PE
4667	1076017.4651	565652.9498	242.92	PRC
4668	1076021.6111	565664.8198	242.87	PE
4669	1075976.9289	565680.8325	243.45	PE
4670	1075972.1459	565668.3480	243.46	PRC
4671	1075967.9511	565657.4861	243.34	PE
4672	1075871.7671	565690.8825	244.69	PE
4673	1075875.1957	565701.6371	244.58	PRC
4674	1075879.1516	565713.1729	244.29	PE
4675	1075798.9681	565743.8668	245.44	PE
4676	1075793.7366	565731.3034	245.64	PRC
4677	1075788.7158	565720.8520	245.70	PE
4678	1075728.8386	565658.5026	246.25	LELS
4679	1075792.1274	565640.3634	244.51	LELS
4680	1075930.6254	565594.6858	243.77	LELS
4682	1076869.4340	564938.5000	243.67	LELS
4683	1076822.5770	564936.8456	244.63	LELS
4684	1076773.4230	564939.4758	246.68	PE
4685	1076751.7350	564941.1702	248.27	PRC
4686	1076730.3250	564942.4547	248.83	PE
4687	1076984.9870	564978.1775	241.42	LELS
4688	1077078.1430	565009.9332	236.57	LELS
4689	1077207.5330	565062.6136	234.34	LELS
4690	1077380.7940	565126.6647	233.34	LELS
4691	1077563.9140	565197.1794	233.38	LELS
4692	1077754.6030	565270.2546	229.00	LELS
4693	1077748.2590	565346.0240	227.61	LELS
4694	1077632.9850	565304.0097	230.85	LELS
4695	1077382.9030	565210.5815	232.86	LELS
4696	1077199.8870	565133.5687	234.72	LELB
4697	1077177.4580	565145.3652	238.41	LELB
4698	1077125.2730	565171.8328	238.71	LELS
4699	1076891.5370	565290.0133	248.26	LELS
4700	1077002.1630	565233.4077	245.93	LELB
4701	1076859.3070	565305.2641	249.15	LELB
4702	1076806.4210	565332.0644	239.04	LELB
4703	1076756.4390	565357.1151	238.72	PE
4704	1076740.3990	565364.4294	240.06	PRC
4705	1076722.8760	565374.4254	241.14	PRC
4706	1076667.2980	565254.1198	240.24	LELB
4707	1076651.2220	565262.3064	239.98	LELB



4708	1076679.8220	565252.2551	244.23	PE
4709	1076697.1730	565246.1996	243.06	PRC
4710	1076711.0900	565239.2544	241.55	PE
4711	1076713.4350	565238.0343	241.61	LWSF
4712	1076714.3220	565237.8648	243.07	LWR LELB
4713	1076804.4190	565200.9404	253.03	LELB
4714	1076920.2400	565153.2689	248.43	LELB
4715	1076934.2430	565145.3944	241.51	LELB
4716	1077020.0430	565109.7046	239.80	LELS
4717	1077110.6630	565074.0826	239.60	LELS
4718	1077225.5410	565195.2015	234.91	LELS
4719	1077123.5590	565247.7547	238.00	LELS
4720	1077019.5930	565299.9793	243.51	LELS
4721	1076921.4080	565348.5656	245.51	LELS
4722	1076810.5860	565411.4156	237.30	LELS
4723	1076803.5070	565414.4297	237.15	RDP
4724	1076802.9490	565414.9439	237.36	RC
4725	1076801.0760	565416.6263	237.57	RC
4726	1076800.5690	565417.0847	236.59	PE
4727	1076787.0470	565430.4427	238.14	PRC
4728	1076771.6870	565443.1950	239.27	PE
4729	1076760.0320	565451.3989	238.74	LELS
4730	1076756.7800	565455.3211	239.47	LELS
4731	1076117.2440	565538.8197	244.52	LELS
4732	1076245.6387	565499.7252	240.78	LELB
4733	1076278.9147	565492.3720	230.41	LELB
4734	1076343.0142	565476.1694	230.15	LELB
4735	1076373.0952	565463.3787	234.87	LELB
4736	1076419.0031	565447.5275	235.26	LELS
4737	1076444.7754	565443.7962	236.96	LELB
4738	1076453.4366	565439.5394	235.42	PE
4739	1076462.2407	565434.0226	235.57	PRC
4740	1076471.2109	565429.0614	235.53	PE
4741	1076474.7809	565426.7032	236.63	LELB
4743	1076728.3990	565385.1612	240.92	PE
4744	1076716.6889	565362.4287	241.48	PE
4745	1076652.4138	565552.1758	217.86	LAWE
4746	1076659.8582	565546.7270	214.16	RB
4747	1076677.5069	565516.4952	211.08	RB
4748	1076697.1364	565496.7511	210.25	RB CL 7.6' DEEP
4749	1076714.0100	565490.6894	213.49	RB
4750	1076717.4532	565486.3335	217.86	LAWE
4751	1076722.6582	565483.6045	220.27	LELB
4753	1076635.7189	565554.2338	229.88	LELB
4754	1076622.7954	565579.8387	235.97	LELB LAWA
4756	1076655.1509	565430.1571	217.96	LAWE
4758	1076650.8580	565433.5357	204.67	RB
4759	1076630.0380	565445.4797	209.96	RB CL 8.0' DEEP
4760	1076612.1882	565454.1986	212.19	RB
4761	1076601.3906	565459.8843	217.98	LAWE
4762	1076593.4853	565464.6836	220.00	LELB
4765	1076576.0294	565429.1432	217.79	RB

4766	1076575.3203	565429.7258	217.93	LAWE
4767	1076588.6204	565422.8536	216.36	RB
4768	1076596.6843	565418.6925	212.82	RB
4769	1076616.1523	565408.8821	209.41	RB CL 8.5' DEEP
4770	1076632.8599	565398.8045	211.54	RB
4771	1076641.1907	565395.1162	217.91	LAWE
4777	1076498.5944	565391.4793	232.33	LELS
4778	1076498.6099	565380.7316	230.66	LLELB
4779	1076515.7900	565369.8197	222.20	LLELB
4780	1076523.0428	565364.4549	217.92	LAWE
4781	1076532.3612	565354.0860	215.52	RB
4782	1076559.7787	565337.4465	214.17	RB
4783	1076581.0719	565322.0775	213.06	RB CL 4.8' DEEP
4784	1076609.9971	565304.3060	212.97	RB
4785	1076625.3195	565294.7723	213.96	RB
4786	1076634.5888	565291.8132	217.89	LAWE
4787	1076006.4329	565275.9066	222.35	LLELB
4788	1076007.7679	565262.1597	218.56	LAWE
4789	1076008.5503	565247.1379	216.98	RB
4790	1076010.7604	565218.2397	216.69	RB CL 1.9' DEEP
4791	1076021.6237	565184.5031	217.56	RB
4792	1076021.2964	565168.4648	218.59	LAWE
4793	1076020.1588	565158.6265	230.90	LLELB
6075	1077303.4590	565681.3308	233.64	PE
6076	1077294.2871	565697.4690	233.30	PRC
6077	1077281.1861	565711.0249	232.30	PE
6078	1077276.7215	565719.3972	231.53	LLELB
6079	1077260.0328	565730.1490	217.77	LAWE
6080	1077251.1492	565737.8445	214.74	RB
6081	1077216.7461	565769.5509	215.74	RB CL 2.0' DEEP
6082	1077194.7460	565804.0855	216.19	RB
6083	1077169.8310	565831.7217	215.77	RB
6084	1077163.0546	565838.5151	217.74	LAWE
6086	1077324.3470	565662.7166	232.26	LELS
6087	1077366.8140	565607.6273	229.86	LELS
6088	1077454.1250	565509.4755	230.40	LELS
6089	1077537.0100	565538.2391	228.82	LELS
6090	1077654.3290	565581.1240	226.46	LELS
6091	1077748.2670	565610.1106	227.01	LLELB
6092	1077800.3560	565629.4857	225.71	LLELB
6093	1075875.2240	561525.7486	253.33	LLELB
6094	1075865.3250	561628.8922	236.42	LLELB
6095	1075853.7490	561714.1315	235.57	LLELB
6096	1075845.1650	561774.9286	233.07	LLELB
6097	1075849.2870	561770.8579	229.11	DD
6098	1075852.1120	561756.7922	234.54	LLELB
6099	1075831.1870	561875.2553	233.61	LELS
6100	1075813.7400	562014.3691	234.95	LELS
6101	1075788.2070	562216.4971	235.10	LELS
6102	1075762.9140	562404.0451	236.30	LELS
6103	1075756.9000	562464.8745	235.93	LELS
6104	1075777.6319	562560.5574	233.87	LLELB

6105	1075789.2848	562576.4047	230.91	LELB
6106	1075795.6431	562592.0410	219.57	LAWE
6107	1075800.7768	562597.0622	218.10	RB
6108	1075813.8477	562620.9917	218.62	RB
6109	1075831.1783	562655.0019	218.39	RB CL 1.2' DEEP
6110	1075843.1066	562680.2779	218.79	RB
6111	1075851.8109	562697.0389	219.77	LAWE
6112	1075854.4895	562705.4265	220.53	LELB
6114	1078157.0378	564943.0440	221.22	RB CL 4.0' DEEP
6115	1078147.4320	564945.2804	223.37	RB
6116	1078144.7714	564946.8272	224.88	LAWE
6117	1078138.7362	564948.5641	225.75	LELB
6118	1078081.5299	564944.6411	227.55	LELB
6119	1078054.0443	564933.9543	229.33	LELB
6120	1077973.8332	564929.8596	228.93	LELS
6122	1078931.9275	562872.1000	240.08	LELS
6123	1079220.2302	563019.4151	238.09	LAWE
6124	1079228.3195	563022.0408	236.72	RB
6125	1079238.4884	563029.7597	237.09	RB CL 1.1' DEEP
6126	1079250.4855	563036.9868	237.42	RB
6127	1079260.5092	563038.2716	238.15	LAWE
6128	1079270.6407	563042.7947	239.36	LELB
6129	1079304.2944	563059.9084	240.50	LELS
6130	1079342.9226	563080.4424	240.39	LELS
6131	1079428.6994	563126.8239	240.48	LELS
6132	1079550.6276	563194.6310	240.68	LELS
6133	1079586.9545	563214.4592	239.25	LELB
6134	1079588.8597	563215.2571	241.32	LELB
6135	1079623.3257	563234.3071	241.90	LELB
6136	1079642.8827	563245.0667	240.24	LELB
6137	1079728.7163	563271.6378	236.87	LELB
6138	1079735.1068	563272.3556	233.78	LAWE
6139	1079743.6011	563277.9516	233.34	RB CL 0.5 DEEP
6140	1079754.1672	563280.9401	233.79	LAWE
6141	1079759.0637	563283.2246	236.02	LELB
6142	1079864.0612	563359.8001	234.69	LELS
6143	1079960.7318	563400.8917	235.44	LELS
6144	1079965.5319	563404.7565	236.07	LELS
6145	1080010.1990	563469.0760	235.76	LELS
6146	1080098.0934	563523.9066	235.52	LELS
6147	1080168.9953	563568.7770	240.90	LELS
6148	1080277.8018	563636.5844	238.56	LELS
6149	1080303.3482	563654.4454	248.75	LELB
6151	1077287.6111	566638.9532	214.30	RB
6152	1077275.3909	566633.2463	214.02	RB CL 3.9' DEEP
6153	1077289.4113	566634.1175	214.69	RB
6154	1077297.2255	566626.9651	217.93	LAWE
6155	1077317.6157	566650.7759	219.66	LELB
6156	1077439.4587	566900.1823	215.42	RB
6157	1077417.0565	566919.1041	214.50	RB CL 2.5' DEEP
6158	1077383.7842	566944.1364	213.09	RB
6159	1077371.6879	566953.2361	216.98	LAWE

6160	1077451.5726	566888.8313	217.03	LAWE
6161	1077462.1427	566878.2388	222.71	LELB
6162	1077522.5134	566859.0839	221.28	LELS
6163	1077585.0122	566868.6144	220.32	LELS
6164	1077621.6331	566873.0180	219.63	LELB
6165	1077641.6785	566872.5688	228.97	LELB
6166	1077565.0119	567285.7379	207.34	RB
6167	1077542.4095	567256.2790	207.45	RB CL 9.6' DEEP
6168	1077505.0519	567212.9611	210.32	RB
6169	1077491.5770	567199.4058	213.82	RB
6170	1077476.2258	567180.8795	216.95	LAWE
6171	1077170.7890	567244.4945	216.96	LAWE
6172	1077168.1889	567252.2193	214.39	RB
6173	1077168.3272	567300.8539	214.95	RB
6174	1077167.1104	567314.5455	214.00	RB CL 2.9' DEEP
6175	1077168.5104	567360.6479	214.44	RB
6176	1077168.0365	567378.9826	216.93	LAWE
6177	1077579.5263	567301.5780	217.03	LAWE
6178	1077609.4995	567332.7204	233.02	LELB
6179	1077639.3652	567372.0319	237.47	LELB
6180	1077673.3623	567410.7104	241.76	RDU
6182	1077178.3363	567476.7548	232.11	LELS
6183	1077169.8895	567419.5983	234.49	LELB
6184	1077169.5940	567422.2893	228.19	LELB
6185	1077258.2295	567562.4051	231.25	LELB
6186	1077322.6194	567618.9421	241.45	LELS
6187	1076832.0381	567404.9822	212.31	RB CL 4.4' DEEP
6188	1076855.4853	567417.0821	214.25	RB
6189	1076884.5854	567433.9062	214.80	RB
6190	1076901.7197	567439.3566	216.68	LAWE
6191	1076907.4281	567440.8832	221.69	LELB
6195	1076901.8221	567495.6326	224.08	LELB
6196	1076941.7686	567553.4731	241.79	LELS
6197	1076929.0821	567526.1599	241.96	LELB
6198	1076996.5161	567607.0483	240.96	LELB
6199	1077078.0890	567679.8440	241.27	LELS
6200	1077116.5132	567723.9922	241.54	LELS
6202	1075860.0509	564994.8666	232.69	LELB LAWA
6203	1075830.9668	565016.9375	218.41	LAWE
6204	1075821.0802	565019.5178	216.74	RB
6205	1075796.3518	565037.1316	213.78	RB CL 4.6' DEEP
6206	1075765.0005	565051.4126	215.11	RB
6207	1075749.4968	565059.2007	218.68	LAWE
6208	1075720.6401	565078.0258	241.24	LELB LAWA
6209	1075695.2968	565099.3660	242.34	PE
6210	1075679.4872	565108.9451	241.96	PRC
6211	1075664.3870	565118.3086	241.96	PE
6213	1077511.7191	565979.6758	214.47	RB CL 4.5' DEEP
6214	1077528.5978	565955.4346	215.47	RB
6215	1077485.0914	566003.1153	215.86	RB
6216	1077459.7709	566016.2201	215.81	RB
6217	1077425.8599	566403.2585	215.62	RB CL 2.1' DEEP

6218	1077446.1204	566420.1091	216.36	RB
6219	1077463.4331	566433.0766	216.98	RB
6220	1077470.3077	566438.8462	217.69	LAWE
6221	1077487.0311	566454.7901	219.97	LELS
6222	1077489.8414	566466.6445	218.64	LAWE
6223	1077487.0880	566475.9824	218.00	RB CL 0.8' DEEP
6224	1077505.4544	566483.8310	218.44	RB
6225	1077511.3036	566485.8485	218.76	LAWE
6226	1077516.4994	566487.8751	227.32	LELB
6228	1077759.2769	566334.7391	219.02	LAWE
6229	1077754.8321	566329.4199	216.46	RB CL 2.6' DEEP
6230	1077741.6358	566324.9806	216.35	RB
6231	1077735.8014	566316.1814	219.00	LAWE
6232	1077725.4726	566308.4560	219.83	LELB
6233	1077715.2954	566297.0650	219.16	LAWE
6234	1077707.3206	566298.0941	218.55	RB CL 0.6' DEEP
6235	1077699.0660	566295.9700	218.96	LAWE
6236	1077689.5639	566293.1323	223.30	LELB
6238	1078152.7708	566747.5442	235.66	PE
6239	1078137.7142	566744.3904	235.64	LELB
6240	1077977.0132	566736.2939	233.18	LELS
6241	1077747.4881	566560.5587	222.02	LELB
6242	1077584.0596	566548.5619	224.08	LELS
6244	1077864.3271	566734.7977	232.63	LELS
6245	1077762.8210	566713.7986	232.32	LELB
6246	1077742.9060	566706.5604	223.47	LELB
6247	1077733.1085	566705.3527	216.97	LAWE
6248	1077716.4632	566699.2221	213.77	RB CL 3.2' DEEP
6249	1077698.3954	566693.1046	216.95	LAWE
6250	1077686.7704	566685.4640	221.01	LELB
6251	1077566.0874	566683.9172	222.91	LELS
6252	1077518.7164	566675.7059	221.49	LELB
6253	1077937.0550	567005.4121	233.99	RDU
6255	1077980.6803	567047.6321	236.77	LELB
6256	1078009.3136	567081.8616	235.09	LELB
6257	1078012.1488	567090.8006	234.06	LELB
6258	1078016.9121	567103.3392	227.35	DD
6259	1078023.9228	567122.4880	235.23	LELB
6260	1078029.8277	567147.6488	232.60	LELB
6261	1078038.2857	567171.6152	235.60	LELB
6262	1078048.0378	567215.6793	237.48	LELS
6263	1077925.9774	567003.9108	234.31	RDU
6264	1077922.8149	566996.4041	233.53	LELB
6265	1077823.4961	566900.2805	232.55	LELS
6266	1077752.6968	566879.1272	232.10	LELB
6267	1077726.2140	566879.1168	216.44	LAWE
6268	1077719.9109	566881.7863	214.56	RB
6269	1077697.4435	566897.4598	212.88	RB CL 3.6' DEEP
6271	1077679.8171	566911.3082	216.80	LAWE
6273	1075993.0013	565308.4070	238.61	PE LELB
6274	1075992.8848	565317.9556	238.58	PRC
6275	1075993.8329	565328.6443	238.28	PE LELB

6276	1075949.0386	565354.0691	236.96	LELB
6277	1075871.4183	565369.0306	238.77	LELB
6278	1075793.8697	565380.9884	240.17	LELB
6279	1075614.0362	565417.1537	242.54	LELB
6282	1075618.1850	565144.4556	243.20	PE
6283	1075630.7590	565138.6086	241.83	LELB
6284	1076773.1770	564862.7250	246.49	PE LELB

**Miscellaneous Locations**

4757	1076658.3128	565427.1063	237.08	BVC
4763	1076591.7198	565462.1833	237.14	BVC
4764	1076577.0510	565432.0872	237.18	BVC
4772	1076639.2531	565399.1123	237.20	BVC
4283	1077774.7216	566133.0487	227.66	BVC 1040750
4284	1077804.0601	566159.2971	227.59	BVC 1040750
4285	1077818.5336	566126.9281	227.76	BVC 1040750
4286	1077788.8446	566101.4300	227.95	BVC 1040750