

**CITY OF NEW BERN
BOARD OF ALDERMEN MEETING
FEBRUARY 23, 2021 – 6:00 P.M.
CITY HALL COURTROOM
300 POLLOCK STREET**

Notice Regarding Public Hearings: Public hearings will be conducted, but action will be delayed by the Board until its next meeting pursuant **if at least one member of the Board participates electronically. In that case, the public comment period will remain open for 24 hours following the hearings. During that time, comments may be submitted to the City Clerk by emailing blancob@newbernnc.gov or hand delivery to her office at 300 Pollock Street, New Bern. This is in compliance with the remote meetings law activated by a declared state of emergency.**

1. Meeting opened by Mayor Dana E. Outlaw. Prayer Coordinated by Alderman Aster. Pledge of Allegiance.
2. Roll Call.

Consent Agenda

3. Consider Adopting a Resolution Calling for a Public Hearing on Financing a Radio System Upgrade and the Pleasant Hill Community Center.
4. Approve Minutes.

5. Presentation on Juneteenth.
6. Conduct a Public Hearing and Consider Adopting a Resolution Approving a Residential Property Periodic Inspection Program per Section 2.1.2 of the Redevelopment Plan.
7. Consider Adopting a Resolution Approving an Amendment to the 2020 Annual Action Plan for the Community Development Block Grant Program.
8. Consider Adopting a Resolution to Authorize the City Manager to Execute Contract Documents for the Hurricane Florence Category A Drainage Ditch Project Within the Jimmie's Creek Drainage Basin.
9. Consider Adopting a Resolution to Authorize the City Manager to Execute Contract Documents for the Hurricane Florence Category A Drainage Ditch Project Within the Trent River Basin.
10. Consider Adopting a Resolution to Authorize the City Manager to Execute Contract Documents for the Hurricane Florence Category D Trent Village Retaining Wall Project.

11. Consider Adopting a Resolution Approving Additional Street Lights on Waters Street.
12. Discussion of Elections.
13. Appointment(s).
14. Attorney's Report.
15. City Manager's Report.
16. New Business.
17. Closed Session.
18. Adjourn.



NEW BERN
CITY OF NEW BERN

300 Pollock Street, P.O. Box 1129
New Bern, NC 28563-1129
(252) 636-4000

Aldermen

- Sabrina Bengel
- Jameesha Harris
- Robert V. Aster
- Johnnie Ray Kinsey
- Barbara J. Best
- Jeffrey T. Odham

- Dana E. Outlaw
Mayor
- Mark A. Stephens
City Manager
- Brenda E. Blanco
City Clerk
- Mary M. Hogan
Director of Finance

Memo to: Mayor and Board of Aldermen

From: Mark A. Stephens, City Manager

Date: February 19, 2021

Re: February 23, 2021 Agenda Explanations

Notice Regarding Public Hearings: Public hearings will be conducted, but action will be delayed by the Board until its next meeting pursuant **if at least one member of the Board participates electronically**. In that case, the public comment period will remain open for 24 hours following the hearings. During that time, comments may be submitted to the City Clerk by emailing blancob@newbernnc.gov or hand delivery to her office at 300 Pollock Street, New Bern. This is in compliance with the remote meetings law activated by a declared state of emergency.

1. Meeting opened by Mayor Dana E. Outlaw. Prayer Coordinated by Alderman Aster. Pledge of Allegiance.
2. Roll Call.

Consent Agenda

3. Consider Adopting a Resolution Calling for a Public Hearing on Financing a Radio System Upgrade and the Pleasant Hill Community Center.

On September 9, 2020, the Board approved using debt proceeds to finance a radio system upgrade at a cost of \$1,503,895 and the Pleasant Hill Community Center at \$300,000. The total amount to be financed is \$1,803,895. Pursuant to NCGS 160A-20, a public hearing must be held on the financing. It is requested that hearing be called for February 23, 2021. A memo from Mary Hogan, Director of Finance, is attached.

4. Approve Minutes.

Draft minutes from the February 09, 2021 meeting are provided for review and approval.

5. Presentation on Juneteenth.

On behalf of the #ProjectRestore movement, Talina Massey will share a PowerPoint presentation on the upcoming Juneteenth celebration. For the last four years, Juneteenth activities have been organized by #ProjectRestore and carried out by local community members.

6. Conduct a Public Hearing and Consider Adopting a Resolution Approving a Residential Property Periodic Inspection Program per Section 2.1.2 of the Redevelopment Plan.

(Wards 1, 2 and 5) One of the requirements established in the Redevelopment Plan is the creation of a Residential Property Periodic Inspection Program ("RIPE") Lengthy discussions by the Redevelopment Commission yielded a unanimous decision to create a RIPE. The program is designed to proactively identify and remediate housing that does not meet the City's minimum housing code or related ordinances. Enforcement will be conducted by the City's Minimum Housing Officer. If a property fails an inspection, the officer will meet with the property owner to discuss the deficiencies and establish a reasonable timeframe in which to bring the property up to minimum standards. A memo from Jeff Ruggieri, Director of Development Services, is attached.

7. Consider Adopting a Resolution Approving an Amendment to the 2020 Annual Action Plan for the Community Development Block Grant Program.

The US Department of Housing and Urban Development ("HUD") requires Community Development Block Grant ("CDBG") Entitlement Cities submit an Annual Action Plan summarizing the actions, activities and resources that will be used to address needs and goals identified in the Strategic Plan section of the 2020 Consolidated Plan. A public hearing was held on February 09, 2021 to receive comments on a proposed amendment to the Annual Action Plan. The amendment includes HUD's third round of CDBG coronavirus ("CDBG-CV") funds and describes how the funding will be utilized. The latest funds amount to \$194,483, bringing New Bern's total amount of CDBG-CV funding to \$346,735. A memo from Amanda Ohlensehlen, Community and Economic Development Manager, is attached.

8. Consider Adopting a Resolution to Authorize the City Manager to Execute Contract Documents for the Hurricane Florence Category A Drainage Ditch Project Within the Jimmie's Creek Drainage Basin.

(Ward 6) The City has been working with FEMA over the past two years on a project to remove sediment and debris from 66 miles of drainage ditches throughout the City. The work to address the Jimmie's Creek drainage basin Category A project was put out to bid, and Grillot Construction Company, LLC submitted the lowest bid at \$449,650. It is requested the City Manager be authorized to execute a contract with Grillot Construction for this portion of the project, along with any change orders within the budgeted amount. A memo from Matt Montanye, Director of Public Works, is attached.

9. Consider Adopting a Resolution to Authorize the City Manager to Execute Contract Documents for the Hurricane Florence Category A Drainage Ditch Project Within the Trent River Basin.

(Ward 2) Similar to the previous item, the work to address the Trent River Basin Category A project was put out to bid, and Grillot Construction Company, LLC submitted the lowest bid at \$469,830. It is requested the City Manager be authorized to execute a contract with Grillot Construction for this portion of the project, along with any change orders within the budgeted amount. A memo from Mr. Montanye is attached.

10. Consider Adopting a Resolution to Authorize the City Manager to Execute Contract Documents for the Hurricane Florence Category D Trent Village Retaining Wall Project.

(Ward 2) In correlation with the previous item, bids were sought to make repairs to permanent structures damaged during Hurricane Florence. With a bid of \$609,900, Trader Construction Company, Inc. submitted the lowest bid to replace the damaged retaining wall located along the Trent Village neighborhood near Richmond Court. It is requested the City Manager be authorized to execute a contract with Grillot Construction for this portion of the project, along with any change orders within the budgeted amount. A memo from Mr. Montanye is attached.

11. Consider Adopting a Resolution Approving Additional Street Lights on Waters Street.

(Ward 2) Sharon Bryant of 2011 Waters Street has requested an additional streetlight on Waters Street. Staff evaluated the request and determined the area does not meet the City's light standard and recommended the addition of two streetlights on existing poles. The installation of the lights will cost \$1,166.67, and the monthly utility charge for service will be \$16.88. A memo from Charles Bauschard, Director of Public Utilities, is attached along with other supporting documentation.

12. Discussion of Elections.

On several previous occasions, the Board has discussed the election process. Meloni Wray, Director of the Craven County Board of Elections, recently provided a letter with cost estimates and information on municipal redistricting. This information will be discussed.

13. Appointment(s).

On June 11, 2019, Mayor Outlaw appointed Martha "Molly" Ingram to the Appearance Commission. Ms. Ingram recently resigned from her seat, as she will be relocated to another state in November. Mayor Outlaw is asked to make a new appointment to serve the remainder of Ms. Ingram's term.

- 14. Attorney's Report.**
- 15. City Manager's Report.**
- 16. New Business.**
- 17. Closed Session.**
- 18. Adjourn.**

AGENDA ITEM COVER SHEET

Agenda Item Title:

Consider adopting resolution calling for a Public Hearing for comments on the financing for Radio System Upgrade and the Pleasant Hill Community Center Building.

Date of Meeting: 02/23/2021	Ward # if applicable: N/A
Department: Finance	Person Submitting Item: Mary M. Hogan
Call for Public Hearing: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date of Public Hearing: 3/9/2021

Explanation of Item:	A public hearing is required pursuant to GS160A-20 for citizen comment regarding the proposed financing for the radio system upgrade and the Pleasant Hill Community Center building.
Actions Needed by Board:	Adopt a resolution calling for a public hearing March 9, 2021.
Backup Attached:	Memo and Resolution

Is item time sensitive? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cost of Agenda Item: \$0.00
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes:



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Mary M. Hogan
Director of Finance

TO: City Manager, Honorable Mayor and Members of the Board of Aldermen
FROM: Mary Hogan, Director of Finance
DATE: February 11, 2021
RE: Call for Public Hearing on Radio Project Upgrade and Pleasant Hill
Community Center Financing

Background Information

On September 9, 2020, the Board approved financing for the Radio system \$1,503,895 and the Pleasant Hill Community Center \$300,000 for a total of \$1,803,895 to be paid through debt proceeds.

As a result, a public hearing is required pursuant to G.S 160A-20. Attached is a resolution calling for a public hearing to be held on March 9, 2021 for comments on said financing.

Requested Action

It is recommended that the Board adopt the enclosed resolution at its meeting to be held on February 23, 2021.

RESOLUTION BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN

WHEREAS, the City of New Bern is required to hold a public hearing to receive public comments on financing contracts authorized under G.S. 160A-20 involving real property and contracts extending five or more years which requires approval by the Local Government Commission.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN:

That a public hearing will be conducted by the Board of Aldermen of the City of New Bern at 6:00 p.m., or as soon thereafter as the matter may be reached, on the 9th day of March, 2021, in the City Hall Courtroom in said City for public discussion on a request to enter into a financing agreement for the purchase of a radio system and a steel commercial building to be used as a Parks & Recreation Center.

ADOPTED THIS THE 23RD DAY OF FEBRUARY, 2021.

DANA E. OUTLAW, MAYOR

BRENDA E. BLANCO, CITY CLERK

AGENDA ITEM COVER SHEET

Agenda Item Title:

Presentation on Juneteenth

Date of Meeting: 2/23/2021	Ward # if applicable: N/A
Department: City Clerk	Person Submitting Item: Brenda Blanco, City Clerk
Call for Public Hearing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of Public Hearing: N/A

Explanation of Item:	Talina Massey will make a presentation on Juneteenth.
Actions Needed by Board:	Informational only
Backup Attached:	None

Is item time sensitive? <input type="checkbox"/> Yes <input type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input type="checkbox"/> No

Cost of Agenda Item:
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes:



JUNETEENTH OF NEW BERN

2021 - PAST, PRESENT, AND BEYOND

Powered By:



1

SUPPORTING CONTRIBUTORS:

SHARON BRYANT - AFRICAN AMERICAN
OUTREACH COORDINATOR, TRYON PALACE

CARRIE GALLAGHER - EXECUTIVE
DIRECTOR, THE AFRICAN AMERICAN HERITAGE &
CULTURAL CENTER OF NEW BERN

RAYMONA GREEN – EDUCATOR (JTB),
#PROJECTRESTORE



2

JUNETEENTH HISTORY

Juneteenth
June 19, 1865

3

PROJECT DIRECT
Juneteenth of New Bern Celebration

Task: Create an annual celebration of Juneteenth

Goal: Increase the positive social connections among families, neighbors and cultures

Activities: Historical Lecture, Flag Presentation, City Proclamation, Middle School Essay Contest, Commemorative Poem, Reception

Proposed Venue: North Carolina History Center, Zwaan Palace

Collaborators: Sharon Bryant, Zwaan Palace, Talisa Murray, Project Review, Janorcia Harris, City of New Bern

Program Schedule:

- 7:00pm Present Flag, Poem
- 7:15pm Read Proclamation
- 7:30pm Lecture, Donald Poyton
- 8:00pm Q&A
- 8:30pm Present Essay winners reward

JUNETEENTH 200 FOR \$200 ESSAY CONTEST

THE 1st ANNUAL JUNETEENTH CELEBRATION OF NEW BERN, NC

the 1st Annual Juneteenth Celebration of New Bern, NC is looking for middle school/year's high school students to write a minimum of 200 words on:

1. What is Juneteenth? (Past/History)
2. Why do we celebrate this event? (Present)
3. Why is it important that we continue to celebrate, preserve and share this knowledge, and celebrate cultural diversity? (Future).

The 1st place winner will be announced and awarded \$200 at the Juneteenth program on 7pm on June

Essay submissions can be emailed to projectdirect78@gmail.com, or given to any @ProjectDirect member, from

the 1st Annual Juneteenth Celebration of New Bern, NC is looking for middle school/year's high school students to write a minimum of 200 words on:

1. What is Juneteenth? (Past/History)
2. Why do we celebrate this event? (Present)
3. Why is it important that we continue to celebrate, preserve and share this knowledge, and celebrate cultural diversity? (Future).

The 1st place winner will be announced and awarded \$200 at the Juneteenth program on 7pm on June

Travis Public African American Lectures Series presents

JUNETEENTH CELEBRATION OF THE NEW BERN, NC

JUNETEENTH is an important and celebration of freedom because it is the birth of a new nation for African Americans. It is a day when we can all celebrate the freedom that we have today. It is a day when we can all celebrate the freedom that we have today. It is a day when we can all celebrate the freedom that we have today.

Donald Poyton

FREE EVENT

Thursday, June 14, 7:00pm
North Carolina History Center
Cultural Performance Hall

www.projectdirect.org



NEW BERN'S HISTORY OF PARTICIPATION 2018*

4



JUNETEENTH OF NB WEEK - 2019

5



JUNETEENTH OF NB - 2020 - COVID-19*



6

PRESENTLY

- NATIONAL CELEBRATIONS IN CITIES LIKE ROCKFORD IL, PHILADELPHIA PA, AND BUFFALO NY, WITH DEDICATED ANNUAL MUNICIPAL SUPPORT ARE EXPERIENCING NOT ONLY INCREASED QUALITY OF LIFE THROUGH THE CELEBRATION OF CULTURAL DIFFERENCES, BUT POSITIVE ECONOMIC IMPACT THROUGH FESTIVAL CONCESSIONS, ENTERTAINMENT AND INCREASED TOURISM.
- IN 2007, NORTH CAROLINA BECAME THE 26TH STATE TO RECOGNIZE JUNETEENTH AS A STATE HOLIDAY OR A STATE HOLIDAY OBSERVANCE WHEN IT IS RECOGNIZED NATIONALLY. SINCE, SEVERAL NC COUNTIES HAVE OFFERED JUNETEENTH AS A PAID HOLIDAY – WAKE, ORANGE, BERTIE, COOK.
- NC CITIES THAT CURRENTLY OFFER JUNE 19TH AS A PAID CITY HOLIDAY – CARRBORO, MONROE, DURHAM, GREENSBORO, APEX, WINSTON-SALEM, VANCE, RALEIGH AND A HANDFUL OF NORTH CAROLINA MUNICIPALITIES.
- THE CITY OF NEW BERN CURRENTLY HAS A PROCLAMATION ON RECORD THAT RECOGNIZES JUNETEENTH AS A DAY OF CELEBRATION AND URGES ALL CITIZENS TO PARTICIPATE IN CELEBRATIONS AND FESTIVITIES TO RECOGNIZE THE SIGNIFICANCE OF THIS DATE AND CELEBRATE THE FREEDOM AND ACHIEVEMENTS OF AFRICAN AMERICANS, SIGNED BY MAYOR D. OUTLAW ON 3/13/18.
- NEW BERN'S CULTURAL, ARTISTIC, BUSINESS, JOURNALISTIC, PHILANTHROPIC, WELLNESS, AND EDUCATIONAL COMMUNITIES CONTINUE TO SHOW INTEREST IN THE PLANNING AND EXECUTION OF FUTURE JUNETEENTH EVENTS.

7

THE CELEBRATION OF JUNETEENTH IS NOT ONLY A SHOWCASE EVENT OF THE AFRICAN AMERICAN COMMUNITY'S POSITIVE CONTRIBUTIONS TO THE AMERICAN WAY OF LIFE, BUT IT ALSO MAKES A STATEMENT FOR ALL AMERICANS THAT THE UNITED STATES IS TRULY THE 'LAND OF THE FREE'

JUNETEENTH IS AN EXPRESSION AND EXTENSION OF AMERICAN FREEDOM AND, LIKE THE FOURTH OF JULY, A TIME FOR ALL AMERICANS TO CELEBRATE OUR INDEPENDENCE, HUMAN RIGHTS, CIVIL RIGHTS AND FREEDOM.

REGINALD D. GREENE



8

JUNETEENTH 2021



AND BEYOND

- **Community Action:** The Juneteenth community collaborators are currently planning and organizing both virtual and in-person events for 2021, paying close attention to CDC guidelines for social distancing and safety. We've also collectively decided that this is a year to move from grassroots funded individual JUNETEENTH celebrations year to year.
- **City of New Bern Request:** That the city of New Bern NC Government work with the Juneteenth organizers and African-American community to establish an annually celebrated, city supported event during the weekend closest to June 19th in solidarity of their proclamation directive "to participate in celebrations and festivities to recognize the significance of this date" as written by our mayor
 - Recommended Services should include those extended during local events such as Mumfest, Street Cafes and Independence Day Celebrations
 - Ex. Street closures, Portable restrooms, trash collection, firework sponsorship/support
- **Community Action:** To establish a Juneteenth council composed of past community collaborators, supporters, volunteers, and residents with the common goal of streamlining the Juneteenth of New Bern collaboration process, to work as liaison to the city of New Bern and surrounding supporting towns/cities for annual event coordination, and to grow interest in the history and continued celebration of Juneteenth in New Bern and surrounding areas.
- **City of New Bern Request:** Consider adopting a forward-thinking resolution to recognize Juneteenth as a paid holiday for city workers to encourage the celebration of the freedom and achievements of their fellow Americans.

9



QUESTIONS?

FOR MORE INFORMATION

- VISIT THE JUNETEENTH OF NEW BERN FB PAGE
- EMAIL PROJECTRESTORE716@GMAIL.COM
- CALL TALINA MASSEY AT 252-497-8838

10

AGENDA ITEM COVER SHEET

Agenda Item Title:

Conduct a Public Hearing and Consider Adopting a Resolution to Create a Residential Property Periodic Inspection Program per Section 2.1.2 of the Redevelopment Plan.

Date of Meeting: 02/23/2021	Ward # if applicable: Wards: 1, 2 & 5
Department: Development Services	Person Submitting Item: Jeff Ruggieri, Director of Development Services
Call for Public Hearing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of Public Hearing: 2/23/2021

Explanation of Item:	Policy 2.1.2 of the Redevelopment Plan requires the creation of a Residential Property Periodic Inspection Program.
Actions Needed by Board:	Conduct a Public Hearing and Adopt a Resolution
Backup Attached:	Memo, Resolution

Is item time sensitive? <input type="checkbox"/> Yes <input type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input type="checkbox"/> No

Cost of Agenda Item:
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes:



MEMORANDUM

TO: Mayor Dana Outlaw, City of New Bern Board of Aldermen

FROM: Jeff Ruggieri, Director Development Services

DATE: February 12, 2021

SUBJECT: Conduct a Public Hearing and Consider Adopting a Resolution to Create a Residential Property Periodic Inspection Program per Section 2.1.2 of the Redevelopment Plan.

Policy 2.1.2 of the Redevelopment Plan requires the creation of a Residential Property Periodic Inspection Program ("RIPE"). The Redevelopment Commission has discussed this program at length during several meetings, with a unanimous decision to create a Residential Inspection Program Enforcement. This program is designed to proactively identify and remediate housing that does not meet the City of New Bern's Minimum Housing Code and related ordinances.

The enforcement of the RIPE will be done by the City of New Bern Minimum Housing Officer who will conduct inspections on residential properties that are in the designated redevelopment area. Inspections will be conducted by priority sub areas and when violations of the minimum housing code or related codes are visible from the outside of the property.

If a property fails a minimum housing inspection the Minimum housing officer will schedule a meeting with the property owner to discuss the deficiencies and establish a reasonable time frame to bring the property up to minimum standards.

If the February 23, 2021 Board of Aldermen meeting is conducted virtually, the public will have 24 hours to submit comments. Please contact Jeff Ruggieri at 639-7587 should you have questions or need additional information.

RESOLUTION

BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN:

THAT WHEREAS, the Board of Aldermen of the City of New Bern adopted a Redevelopment Plan prepared by the Redevelopment Commission of the City of New Bern on February 11, 2020 (“Redevelopment Plan”), which, among other things, established a Redevelopment Area; and

WHEREAS, the Redevelopment Area consists of property that meets the definition of a “blighted area” or “blighted parcel” as those terms are defined in G.S. §160A-503(2) and G.S. §160A-503(2a), respectively; and

WHEREAS, a periodic inspection program is necessary as a part of a targeted effort to respond to blighted or potentially blighted conditions within the Redevelopment Area; and

WHEREAS, pursuant to G.S. §160D-1207(b), the Redevelopment Commission of the City of New Bern has developed a Residential Inspection Program Enforcement Plan (“Plan”), a copy of which is attached hereto and incorporated herein by reference; and

WHEREAS, the Plan establishes procedures to require periodic minimum housing inspections as part of a targeted effort to respond to blighted or potentially blighted conditions within the Redevelopment Area; and

WHEREAS, pursuant to G.S. §160D-1207(b), notice was published in the *Sun Journal*, a newspaper having general circulation in the city to advise of the Plan, and to advise of a public hearing regarding the Plan; and

WHEREAS, on February 23, 2021, at 6:00 p.m., the Board of Aldermen of the City of New Bern conducted a duly advertised public hearing regarding the Plan, at which time all interested parties were given an opportunity to be heard; and

WHEREAS, the Board of Aldermen of the City of New Bern deems it desirable and in the public interest to adopt the Plan. NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN:

Section 1. That the Residential Inspection Program Enforcement Plan be and the same is hereby adopted.

Section 2. That the city’s director of development services is hereby authorized and directed to implement the Residential Inspection Program Enforcement Plan through the city’s inspection department.

Section 3. That a copy of the Residential Inspection Program Enforcement Plan shall be maintained in the Office of Development Services.

ADOPTED THIS 9th DAY OF MARCH, 2021.

DANA E. OUTLAW, MAYOR

BRENDA E. BLANCO, CITY CLERK

City of New Bern

Residential Inspection Program Enforcement Plan

What is RIPE? RIP stands for Residential Inspection Program Enforcement. It is designed to proactively identify and remediate housing that does not meet the City of New Bern's Minimum Housing Code and related ordinances.

Designated area - On May 15, 2018 the City of New Bern Board of Alderman created the Redevelopment Commission of the City of New Bern to implement a Redevelopment Plan for the Greater Duffyfield/Long Wharf areas of the City (Redevelopment Area).

How does RIPE work? - City of New Bern Minimum Housing Officer will conduct inspections on residential properties that are in the designated redevelopment area. Inspections will be conducted by priority sub areas and when violations of the minimum housing code or related codes are visible from the outside of the property. However, probable cause is not required to conduct an inspection.

When will my property be inspected? - If your property is scheduled for inspection the owner and tenant will be notified 15 days prior to the inspections date. However, any homeowner or tenant may request an inspection at any time.

Can I request an inspection? - Tenants and homeowners can request an inspection at any time.

Is my rental property going to be inspected under the RIP Program? - All rental properties in the Redevelopment Area are subject to RIP inspections.

Is there a cost for an inspection? - There is no charge for the inspection.

Will I know if I fail the minimum Inspection? - The minimum housing officer will provide the tenant and property owner a copy of the Inspection checklist that will detail all failures and areas for concern.

What happens if the property fails inspection? - If a property fails minimum housing inspection the Minimum housing officer will schedule a meeting with the property owner to discuss the deficiencies and establish a reasonable time frame to bring the property up to minimum standards.

What if I can't afford the cost to fix the house? All owner occupants who qualify as low to moderate income individuals will be placed into the City of New Bern CDBG Urgent Repair Program for required repairs at no cost to the homeowner. Income eligibility is determined by HUD guidelines. Non-Owner occupied housing (landlords) will not qualify for the CDBG Urgent Repair Program.

What if I have questions? If you have questions about this program please contact Jeff Ruggieri at 252.639.2146

AGENDA ITEM COVER SHEET

Agenda Item Title:

Consider Adopting a Resolution Approving an Amendment to the 2020 Annual Action Plan for the Community Development Block Grant (CDBG).

Date of Meeting: 02/23/2021	Ward # if applicable: N/A
Department: Development Services	Person Submitting Item: Amanda Ohlensehler, Community and Economic Development Manager
Call for Public Hearing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of Public Hearing:

Explanation of Item:	The U.S. Department of Housing and Urban Development (HUD) requires Entitlement Cities to submit an Annual Action Plan detailing the intended use of CDBG funding for the 2020 year. Due to the current pandemic, the City is receiving an additional CDBG-CV allocation. The previously approved plan will be updated to detail how these special funds will be used.
Actions Needed by Board:	Adopt a Resolution
Backup Attached:	Memo, Resolution, Amended CDBG Annual Action Plan

Is item time sensitive? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input type="checkbox"/> No

Cost of Agenda Item:
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes:



MEMORANDUM

TO: Mayor Outlaw and Board of Aldermen

FROM: Amanda Ohlensehler, Community and Economic Development Manager

DATE: February 12, 2021.

SUBJECT: Consider Adopting a Resolution Approving an Amendment to the 2020 Annual Action Plan for the Community Development Block Grant Program.

Background Information:

The U.S. Department of Housing and Urban Development (HUD) requires Community Development Block Grant (CDBG) Entitlement Cities submit their Annual Action Plan as an application for funding under the program. The plan summarizes the actions, activities, and the specific federal and non-federal resources that will be used to address the priority needs and specific goals identified in the Strategic Plan section of the Consolidated Plan for the 2020 year. The 2020-2021 Annual Action Plan was approved by the Board of Aldermen on September 22, 2020. Due to the ongoing COVID-19 pandemic, Entitlement Cities received an additional allocation of CDBG-CV funds that were released after HUD approved the City's plan. This amendment includes HUD's third round of CDBG-CV allocations, of which an additional \$194,483 has been awarded to the City of New Bern. To-date, the City has received a cumulative amount of \$346,735 in CDBG-CV funds. HUD requires that these special funds be used to prevent, prepare for, or respond to the COVID-19 pandemic. Funds will be granted to local nonprofits to provide emergency rent and utility assistance to low-moderate income families who have delinquent bills due to impacts of the pandemic.

Recommendation:

Consider Adopting a Resolution Approving an Amendment to the 2020 Annual Action Plan for the Community Development Block Grant Program.

If you have any questions or need additional information, please contact Amanda Ohlensehler at 252-639-7580.

RESOLUTION

WHEREAS, the City of New Bern, North Carolina is a recipient of grant funds under the Community Development Block Grant (CDBG) Program and Community Development Block Grant - Coronavirus (CDBG-CV) Program administered by the U.S. Department of Housing and Urban Development (HUD); and

WHEREAS, the City of New Bern had previously approved budgets and Annual Action Plan for the FY 2020 CDBG Program; and

WHEREAS, through the March 27, 2020 passage of the Coronavirus Aid, Relief, and Economic Security Act (CARES Act), Public Law 116-136, the City of New Bern will receive an allocation of CDBG-CV Round #1 funds in the amount of \$152,252 and \$194,483 in CDBG-CV Round # 3 funds; and

WHEREAS, the City of New Bern has to amend its FY 2020 Annual Action Plan to be able to include the FY 2020 CDBG-CV funds in its FY 2020 Annual Action Plan; and

WHEREAS, HUD permits grant recipients to revise and amend its previous budgets and Annual Action Plans; and

WHEREAS, in accordance with the Federal Regulations governing the CDBG Program certain changes and revisions to the Annual Action Plans may be considered a substantial amendment as outlined in the New Bern's Citizen Participation Plan; and

WHEREAS, it has been determined that the proposed changes and revisions to the FY 2020 CDBG Program are a substantial amendment and the City's Citizen Participation Plan has been followed.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN:

Section 1. The amendment to the FY 2019 Annual Action Plan is hereby approved as presented, which includes the following:

- a) CDBG-CV-20-01 CV-CDBG-CV Administration – increase this project/activity budget by \$19,448 for a new project/activity budget of \$34,673.
- b) CDBG-CV-20-02 CV-Rent, Mortgage, and Utility Assistance – increase this project/activity budget by \$175,035 for a new project/activity budget of \$312,062. In addition, the City has added mortgage assistance to pay for back mortgage payments to this project/activity description. This project/activity will be run by Religious Community Services (RCS) and Catholic Charities. RCS

will receive \$185,785 in CDBG-CV funds from the 1st and 3rd rounds of CDBG-CV funds. Catholic Charities will receive \$126,277 in CDBG-CV funds from the 3rd round of CDBG-CV funds.

Section 2. That the Mayor is hereby authorized to sign any related documents on behalf of the City and is authorized to submit the amended FY 2020 Annual Actions Plan to the U.S. Department of Housing and Urban Development.

ADOPTED THIS 23rd DAY OR FEBRUARY 2021.

DANA E. OUTLAW, MAYOR

BRENDA E. BLANCO, CITY CLERK

AGENDA ITEM COVER SHEET

Agenda Item Title:

Consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern all contract documents and change orders within the contract amount for the Hurricane Florence Category A drainage ditch project within the Jimmies Creek drainage basin.

Date of Meeting: 2/23/2021	Ward # if applicable: Ward 6
Department: Public Works	Person Submitting Item: Matt Montanye, Director of Public Works
Call for Public Hearing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of Public Hearing: N/A

Explanation of Item:	Over the past two years the City has been working with FEMA on a project to remove sediment and debris from 66 miles of drainage ditches throughout the City. This project is for the Jimmies Creek Drainage Basin.
Actions Needed by Board:	Adopt attached resolution
Backup Attached:	Memo, Resolution, Bid Tabulation, Advertisement for Bids, Notice of Bid Withdraw, Project Plan

Is item time sensitive? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cost of Agenda Item: \$449,650.00
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes:



Public Works Department
P.O. Box 1129, 1004 S. Glenburne Road
New Bern, N.C. 28563-1129
Phone: (252) 639-7501
Fax: (252) 636-1848

February 12, 2021

Memo to: Mayor and Board of Aldermen

From: Matt Montanye, Director of Public Works

Re: Consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern all contract documents and change orders within the contract amount for the Jimmies Creek Category A, Hurricane Florence drainage ditch project.

Background Information:

In late 2018 following Hurricane Florence, the City of New Bern began working with FEMA on a project to remove sediment and debris from 66 miles of drainage ditches within the City. This project was obligated by FEMA on January 27, 2020. Since being obligated, the City has been working with Draper Aden and Associates to identify damages, develop construction plans and to obtain state and federal permits for work within ten different drainage basins. On January 11, 2021, the Jimmies Creek drainage basin Category A project was advertised for bids and on February 9, 2021, four bids were received and opened, with the low bidder for this project being Grillot Construction Company LLC, with a bid price of \$449,650.00. The Jimmies Creek drainage basin project consist of removing debris from 60 locations, consisting of more than 170 tons of vegetative debris, 535 cubic yards of sediment, 2 tons of miscellaneous debris and the cleaning of 1,600-foot of drainage culverts. The contract time for this project is 120 days.

Recommendation:

Draper Aden and Associates have vetted Grillot Construction Company, LLC and found no issues or concerns. The Public Works Department is recommending and request the Board consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern, all contract documents and any change orders for the Jimmies Creek Category A, Hurricane Florence drainage ditch project within the contract amount.

If you have any questions concerning this matter, please feel free to contact me directly.

cc: George Chiles, Staff Engineer

RESOLUTION

THAT WHEREAS, the Jimmies Creek, Hurricane Florence Category A Drainage Ditch Project was publicly advertised on January 11, 2021 and a pre-bid meeting was held on February 2, 2021; and

WHEREAS, the following qualified bids were received on February 9, 2021:

Grillot Construction Company, LLC	\$ 449,650.00
Trader Construction Company, Inc.	\$ 451,540.00
Carolina Cleaning and Restoration	\$ 526,250.00
NPS Solutions	Bid Withdrawn

WHEREAS, the Director of Public Works of the City of New Bern recommends the City Manager be authorized to execute contract documents with the lowest bidder, Grillot Construction Company, LLC, for the Jimmies Creek Category A, Hurricane Florence Drainage Ditch Project and any change orders within the budgeted amount.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN:

That the City Manager is hereby authorized to execute on behalf of the City of New Bern all contract documents with Grillot Construction Company, LLC for the Jimmies Creek Category A, Hurricane Florence Drainage Ditch Project, and any change orders within the budgeted amount.

ADOPTED THIS 23rd DAY OF FEBRUARY 2021.

DANA E. OUTLAW, MAYOR

BRENDA E. BLANCO, CITY CLERK

DETAILED BID TABULATION

PROJECT: Hurricane Florence Debris Removal Activities - Jimmies Creek Drainage Basin
 PROJECT # 19080319-11
 BID DATE: February 9, 2021
 BID TIME 1 30 PM
 LOCATION: City of New Bern Public Works Department / Microsoft Teams



Item	Description	Units	Quantity	Grillot Construction, LLC		Trader Construction Company		Carolina Cleaning and Restoration, LLC		Unit Cost	Extended Cost
				Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost		
Base Bid											
1	Mobilization (3% Maximum)	EA	1	\$ 13,000.00	\$ 13,000.00	\$ 13,540.00	\$ 13,540.00	\$ 12,750.00	\$ 12,750.00		\$ -
2	Sediment and Erosion Control	EA	1	\$ 115,000.00	\$ 115,000.00	\$ 180,000.00	\$ 180,000.00	\$ 120,000.00	\$ 120,000.00		\$ -
3	Traffic Control	EA	1	\$ 84,200.00	\$ 84,200.00	\$ 20,000.00	\$ 20,000.00	\$ 65,000.00	\$ 65,000.00		\$ -
4	Install Temporary Construction Access	LF	4,100	\$ 12.00	\$ 49,200.00	\$ 13.00	\$ 53,300.00	\$ 20.00	\$ 82,000.00		\$ -
5	Sediment Removal	CY	535	\$ 70.00	\$ 37,450.00	\$ 100.00	\$ 53,500.00	\$ 100.00	\$ 53,500.00		\$ -
6	Jet Clean Pipe or Culvert	LF	1,600	\$ 22.00	\$ 35,200.00	\$ 12.00	\$ 19,200.00	\$ 20.00	\$ 32,000.00		\$ -
7	Vegetative Debris Removal	Tons	170	\$ 295.00	\$ 50,150.00	\$ 220.00	\$ 37,400.00	\$ 400.00	\$ 68,000.00		\$ -
8	In-Place Vegetative Debris Removal	LF	9,200	\$ 7.00	\$ 64,400.00	\$ 8.00	\$ 73,600.00	\$ 10.00	\$ 92,000.00		\$ -
9	Miscellaneous Debris Removal	Tons	2	\$ 525.00	\$ 1,050.00	\$ 500.00	\$ 1,000.00	\$ 500.00	\$ 1,000.00		\$ -
					\$ 449,650.00		\$ 451,540.00		\$ 526,250.00		\$ -
				Cost Included on Bid Form	\$ 449,650.00		\$ 451,540.00		\$ 526,250.00		\$ -
				CONTRACT AMOUNT BASED ON UNIT BID ITEMS	\$ 449,650.00		\$ 451,540.00		\$ 526,250.00		\$ -

Matt Montanye

Subject: FW: NPS Solutions, LLC - Bid Withdrawal

From: Matt Burnette <mburnette@daa.com>
Sent: Wednesday, February 10, 2021 3:11 PM
To: Agyemang Adu-Poku <aadupoku@npsmarking.com>
Cc: George Chiles <ChilesG@newbernnnc.gov>; Matt Montanye montanyem@newbernnnc.gov

Subject: NPS Solutions, LLC - Bid Withdrawal

Mr. Adu-Poku,

We are in receipt of your request to withdraw your bid for the *Hurricane Florence Debris Removal Activities – Jimmies Creek Basin* project due to a technical error in computing the bid.

Thank you for your company's participation in the bidding process for this project. Please contact me should you have any questions.

Best,
Matt

Matthew C. Burnette, PG, PH, CFM
Senior Project Manager
Associate

Draper Aden Associates
Engineering • Surveying • Environmental Services
Lasting Positive Impact®

Phone: 919.827.0864 • Fax: 919.839.8138 • Mobile: 336.648.6980

From: Agyemang Adu-Poku <aadupoku@npsmarking.com>
Sent: Wednesday, February 10, 2021 2:54 PM
To: Matt Burnette <mburnette@daa.com>
Subject: Bid Withdrawal

Hello Matt,

I hereby request to withdraw NPS Solutions LLC bid for City of New Bern Debris Removal in Jimmies Creek Basin. We had a technical error in computing our bid.

Thanks a lot for your help.

Agyemang Adu-Poku
NPS Solutions

ADVERTISEMENT FOR BIDS

**City of New Bern
New Bern, North Carolina
Hurricane Florence Debris Removal Activities – Jimmies Creek Drainage Basin**

General Notice

The City of New Bern (Owner) is requesting Bids for the construction of the following Project:

**Hurricane Florence Debris Removal Activities – Jimmies Creek Drainage Basin
DAA PN: 19080319-110302**

Bids for the construction of the Project will be received at the City of New Bern Public Works Department located at 1004 S. Glenburnie Road, until February 9, 2021 at 1:30 PM local time. At that time the Bids received will be publicly opened and read.

In response to the continued State of Emergency declaration and the "Extension of the Modified Stay at Home Order" pursuant Executive Order 188, dated January 6, 2021, the public bid opening shall be made available through online video conference. Access to the online video conference shall be made available to all plan holders at least 24 hours prior to opening of bids.

The Project includes the following Work:

This project generally involves the removal of previously identified and as encountered sediment, vegetative debris, and miscellaneous debris within open-air stormwater ditches, piping, culverts, and wetlands. Work also includes clearing, grubbing, installation of access roads, necessary traffic control, erosion and sediment control, excavation, reduction, hauling of debris.

Bids are requested for the following Contract: **Hurricane Florence Debris Removal Activities – Jimmies Creek Drainage Basin**

Obtaining the Bidding Documents

Information and Bidding Documents for the Project can be found at the following designated website:

www.daa.com

Bidding Documents may be downloaded from the designated website. Prospective Bidders are urged to register with the designated website as a plan holder, even if Bidding Documents are obtained from a plan room or source other than the designated website in either electronic or paper format. The designated website will be updated periodically with addenda, lists of registered plan holders, reports, and other information relevant to submitting a Bid for the Project. All official notifications, addenda, and other Bidding Documents will be offered only through the designated website. Neither Owner nor Engineer will be responsible for Bidding Documents, including addenda, if any, obtained from sources other than the designated website.

The Issuing Office for the Bidding Documents is:

**Draper Aden Associates
114 Edinburgh South Drive, Suite 200, Cary, NC 27511**

Due to the ongoing COVID-19 pandemic, bidders are strongly encouraged to register as a plan holder from the aforementioned website. Physical documents will not be available from the Issuing Office. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including addenda, if any, obtained from sources other than the Issuing Office.

The Owner is an Equal Opportunity Employer and encourages bidding by small, minority and female contractors and does not discriminate on the basis of handicapped status. Bids from qualified historically underutilized businesses (HUB's) are encouraged. Bidder must provide 10% of total contract cost to HUB's or demonstrate good faith effort. The Work will be subject to the prevailing wage rates and to the Equal Employment Opportunity requirements established by the U.S. Department of Labor. The project will be funded in whole/part using FEMA funds provided by the U.S. Department of Homeland Security. All Federal laws and regulations will apply to use of FEMA funds.

Digital copies of the Bidding Documents are available free of charge from the designated website. Physical copies of the Bidding Documents may be purchased from the Issuing Office. Cost does not include shipping charges. Upon Issuing Office's receipt of payment, printed Bidding Documents will be sent via the prospective Bidder's delivery service. The shipping charge amount will depend on the shipping method chosen. Bidding Documents are available for purchase in the following formats:

Format	Cost
Physical Bidding Documents (including Full-Size Drawings)	\$500

Pre-bid Conference

Pre-bid conference attendance is not required. A virtual pre-bid conference is scheduled, through Microsoft Teams, on February 2, 2021 at 2:00 PM. In response to the continued State of Emergency declaration and the "Extension of the Modified Stay at Home Order" pursuant Executive Order 188, dated January 6, 2021, the pre-bid meeting shall be made available through online video conference. Access to the online video conference shall be made available to all interested parties at least 24 hours prior to the scheduled meeting. Interested parties are required to contact Kim Phillips by email at kphillips@daa.com to request the conference link.

Instructions to Bidders.

For all further requirements regarding bid submittal, qualifications, procedures, and contract award, refer to the Instructions to Bidders that are included in the Bidding Documents.

This Advertisement is issued by:

Owner: City of New Bern
By: Matthew L. Montanye
Title: Director of Public Works
Date: January 11, 2021

CERTIFIED BID TABULATION



PROJECT: Hurricane Florence Debris Removal Activities - Jimmies Creek Drainage Basin
 PROJECT #: 19080319-11
 BID DATE: February 9, 2021
 BID TIME: 1 30 PM
 LOCATION: City of New Bern Public Works Department / Microsoft Teams

	Grillot Construction, LLC	Trader Construction Company	Carolina Cleaning and Restoration, LLC	NPS Solutions, LLC	
Bid Bond	✓	✓	✓		
Contractor's License Information	#84473	#2943	#82325		
Bidder Qualification Statement	✓	✓	✓		
City's General Provisions and Byrd Anti Lobbying Certification	✓	✓	✓		
Anti-Collusion Affidavit	✓	✓	✓		
MBE / HUB Documentation	✓	✓	✓		
Bid Signed	✓	✓	✓		
Receipt of Addenda	✓	✓	✓		
Base Bid Total	\$449,650.00	\$451,540.00	\$526,250.00	BID WITHDRAWN	

This is to certify that the bids tabulated herein were publicly opened and read aloud at 1:30 PM on the Ninth day of February, 2021, at the City of New Bern Public Works Department in New Bern, North Carolina.



HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES JIMMIES CREEK DRAINAGE BASIN

JANUARY 11, 2021
RELEASED FOR BIDDING- NOT FOR CONSTRUCTION

NAME OF PROJECT: HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES JIMMIES CREEK DRAINAGE BASIN
 ENGINEER: ANDREW P. MERICLE, P.E.
 AMERICLE@DRA.COM
 DRAPER ADEN ASSOCIATES
 114 ELDOROUGH SOUTH DRIVE
 SUITE 200, CARY, NC 27511
 PHONE: MULTIPLE
 FIELD REFERENCE: MULTIPLE
 WATERSHED CLASSIFICATION: WELLS RIVER BASIN
 RETURNED AREA: 4.45 ACRES



VICINITY MAP - NOT TO SCALE

Sheet List Table	
Sheet Number	Sheet Title
C1.0	COVER SHEET
C2.0	NOTES
C2.1	MOIST NOTES
C3.0	DRAINAGE BASIN OVERVIEW
C3.1	SITE DETAIL
C3.2	SITE DETAIL
C3.3	SITE DETAIL
C3.4	SITE DETAIL
C3.5	SITE DETAIL
C3.6	SITE DETAIL
C3.7	SITE EXHIBITS
C4.1	JIMMIES CREEK REMEDIATION & ESC PLAN
C4.2	JIMMIES CREEK REMEDIATION & ESC PLAN
C4.3	JIMMIES CREEK REMEDIATION & ESC PLAN
C4.4	JIMMIES CREEK REMEDIATION & ESC PLAN
C4.5	JIMMIES CREEK REMEDIATION & ESC PLAN
C4.6	JIMMIES CREEK REMEDIATION & ESC PLAN
C4.7	DETAILS
C4.8	DETAILS

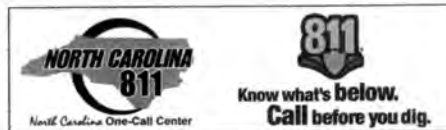
DRAPER ADEN ASSOCIATES REVIEW

THESE PLANS HAVE BEEN SUBJECT TO TECHNICAL AND QUALITY REVIEWS BY

NAME: SAM FORESTI
 PROJECT DESIGNER
 SIGNATURE: *[Signature]*
 DATE: 01/11/21

NAME: MATTHEW C. BURNETT, PLS. CIV.
 PROJECT MANAGER
 SIGNATURE: *[Signature]*
 DATE: 01/11/21

NAME: ANDREW P. MERICLE
 QUALITY REVIEWER
 SIGNATURE: *[Signature]*
 DATE: 01/11/21



Draper Aden Associates
 Engineering • Surveying • Environmental Services



114 Eldorough South Drive, Suite 200
 Cary, NC 27511
 Phone: (919) 234-3434
 Fax: (919) 234-3435
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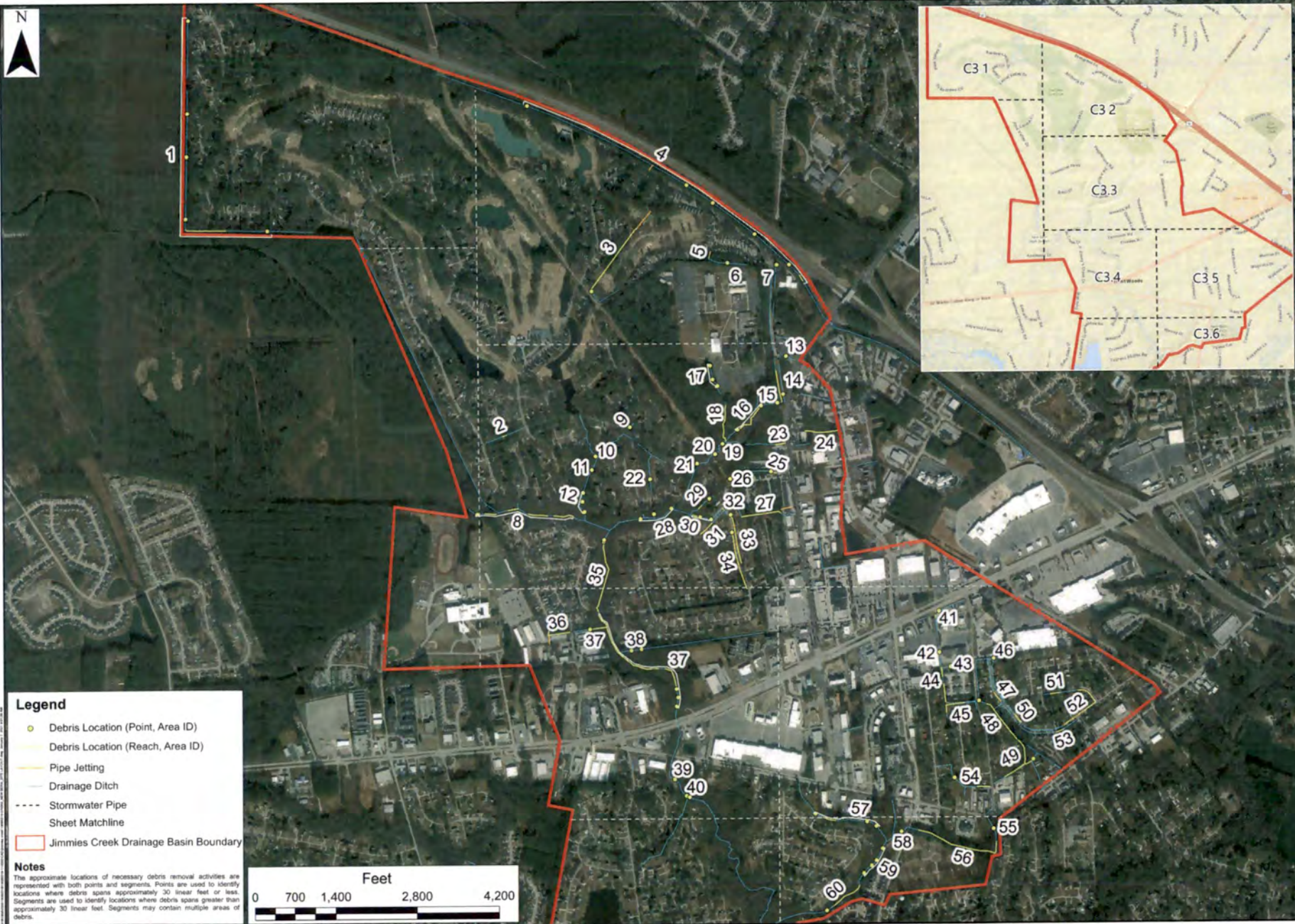
COVER SHEET
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION

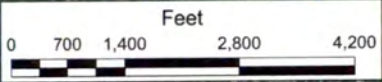
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 CHECKED BY: A.M.
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 DATE: JANUARY 11, 2021
 PROJECT NUMBER: 19080319-110302

C1.0

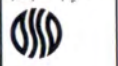


- Legend**
- Debris Location (Point, Area ID)
 - Debris Location (Reach, Area ID)
 - Pipe Jetting
 - Drainage Ditch
 - - - Stormwater Pipe
 - Sheet Matchline
 - Jimmies Creek Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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 Engineering • Surveying • Environmental Services
 114 Exchange Lane, Suite 202
 Raleigh, NC 27601
 Phone: 919.876.2274
 Fax: 919.876.2275
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DRAINAGE BASIN OVERVIEW
HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
JIMMIES CREEK DRAINAGE BASIN

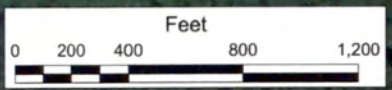
REVISIONS	
01/11/21	ISSUED FOR BIDDING - SEE THE CONTRACTORS
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DRAWN BY:	SLF
CHECKED BY:	APM
SCALE:	1" = 700'
DATE:	JANUARY 11, 2021
PROJECT NUMBER:	19080319-110302

C3.0



- Legend**
- Debris Location (Point, Subarea ID)
 - Debris Location (Reach, Subarea ID)
 - Pipe Jetting
 - In-Place Vegetative Debris Removal
 - Point of Access
 - Install Temporary Gravel Construction Entrance/Exit Access
 - Drainage Ditch
 - Stormwater Pipe
 - Sheet Matchline
 - Jimmies Creek Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



Draper Aden Associates
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111 Exchange Loop, Suite 200
 Cary, NC 27513-9104
 Phone: 919.487.1234
 Fax: 919.487.1235

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 • Charlottesville, VA
 • Harrisonburg, VA
 • Farmington, NC
 • Virginia Beach, VA

SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY:	SLF
DRAWN BY:	SLF
CHECKED BY:	APM
SCALE:	1" = 200'
DATE:	JANUARY 11, 2021
PROJECT NUMBER:	19080319-110302

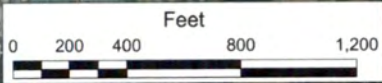
C3.1



Legend

- Debris Location (Point, Subarea ID)
- Debris Location (Reach, Subarea ID)
- Pipe Jetting
- In-Place Vegetative Debris Removal
- Point of Access
- Install Temporary Gravel Construction Entrance/Exit Access
- Drainage Ditch
- Stormwater Pipe
- Sheet Matchline
- Jimmies Creek Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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 919.876.4400

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 • Virginia Beach, VA



SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS	
01/11/21	ISSUED FOR BIDDING - SEE 200 COMMENTS

DESIGNED BY	SLF
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CHECKED BY	ALPM
SCALE	1" = 200'
DATE	JANUARY 11, 2021
PROJECT NUMBER	19080319-110302

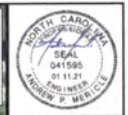
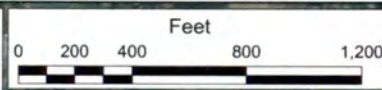
C3.2

Legend

- Debris Location (Point, Subarea ID)
- Debris Location (Reach, Subarea ID)
- Pipe Jetting
- In-Place Vegetative Debris Removal
- Point of Access
- Install Temporary Gravel Construction Entrance/Exit Access
- Drainage Ditch
- Stormwater Pipe
- Sheet Matchline
- Jimmies Creek Drainage Basin Boundary

Notes

The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS

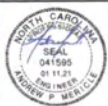
01/11/21	Initial Issue
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DESIGNED BY: SLP
 DRAWN BY: SLP
 CHECKED BY: APM
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 DATE: JANUARY 11, 2021
 PROJECT NUMBER: 19080319-110302

C3.3

- Legend**
- Debris Location (Point, Subarea ID)
 - Debris Location (Reach, Subarea ID)
 - Pipe Jetting
 - In-Place Vegetative Debris Removal
 - Point of Access
 - ▨ Install Temporary Gravel Construction Entrance/Exit Access
 - Drainage Ditch
 - Stormwater Pipe
 - - - Sheet Matchline
 - ▭ Jimmies Creek Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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- Fayetteville, NC
- Virginia Beach, VA



SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS

01/11/21	Issue for Construction
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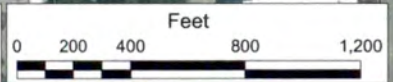
DESIGNED BY:	SLF
DRAWN BY:	SLF
CHECKED BY:	APM
SCALE:	1" = 200'
DATE:	JANUARY 11, 2021
PROJECT NUMBER:	19080319-110302

C3.4



- Legend**
- Debris Location (Point, Subarea ID)
 - Debris Location (Reach, Subarea ID)
 - Pipe Jetting
 - In-Place Vegetative Debris Removal
 - Point of Access
 - Install Temporary Gravel Construction Entrance/Exit Access
 - Drainage Ditch
 - Stormwater Pipe
 - Sheet Matchline
 - Jimmies Creek Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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 • Fredericksburg, VA
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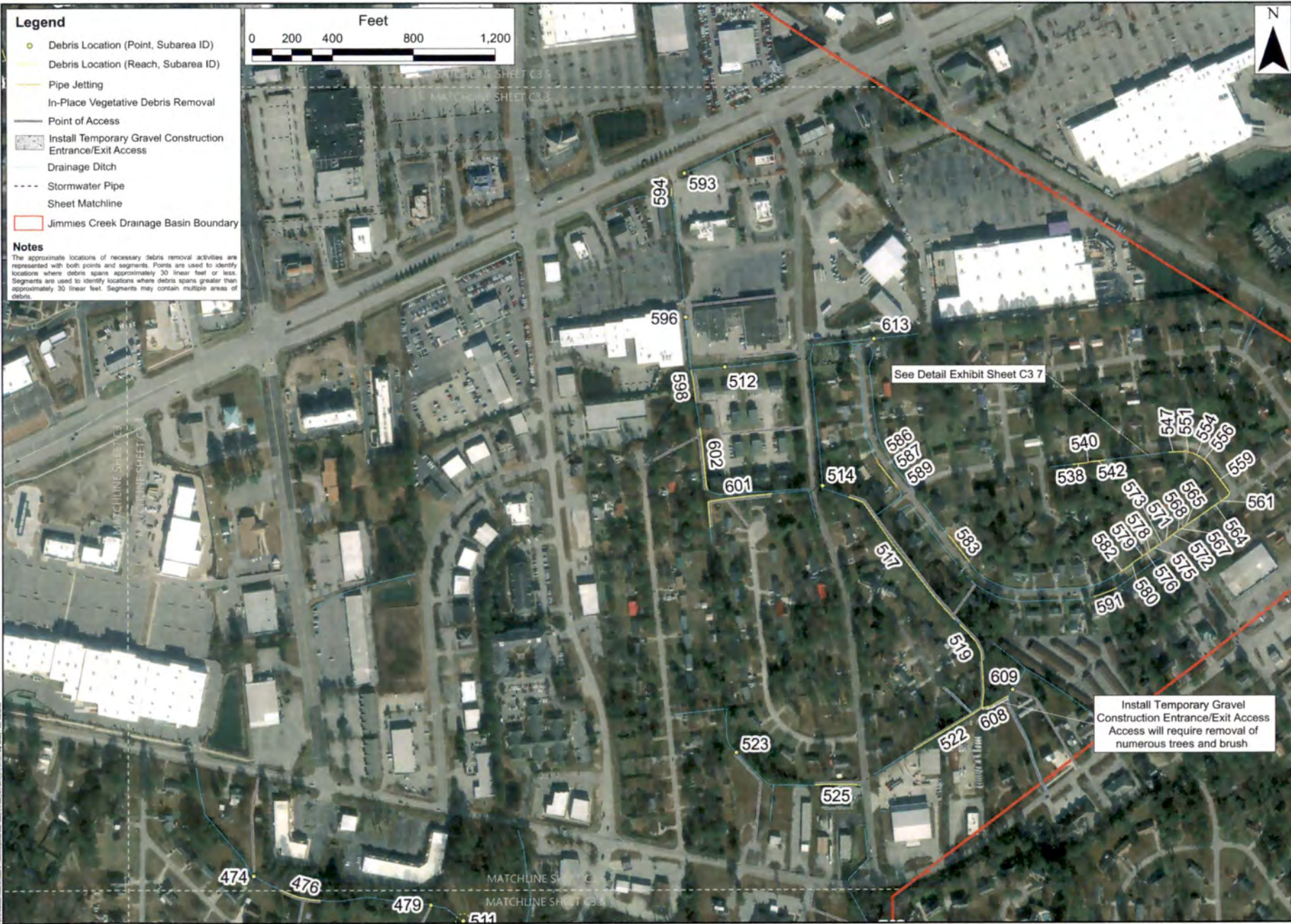


SITE DETAIL
HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
JIMMIES CREEK DRAINAGE BASIN

REVISIONS

DESIGNED BY:	SLF
DRAWN BY:	SLF
CHECKED BY:	APM
SCALE:	1" = 200'
DATE:	JANUARY 11, 2021
DRAWING NUMBER:	19080319-110302

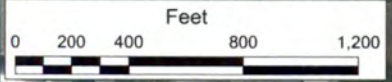
C3.5



Legend

- Debris Location (Point, Subarea ID)
- Debris Location (Reach, Subarea ID)
- Pipe Jetting
- In-Place Vegetative Debris Removal
- Point of Access
- Install Temporary Gravel Construction Entrance/Exit Access
- Drainage Ditch
- Stormwater Pipe
- Sheet Matchline
- Jimmies Creek Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.

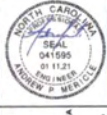


Install Temporary Gravel Construction Entrance/Exit Access. Access will require removal of numerous trees and brush.

Reduce and remove vegetative debris. Secure debris to banks.

Reduce and remove vegetative debris. Secure debris to banks.

Install Temporary Gravel Construction Entrance/Exit Access. Access will require removal of numerous trees and brush. Continued access will require wading, hand reduction, and removal.



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SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS	

DESIGNED BY: SLF
 DRAWN BY: SLF
 CHECKED BY: APM
 SCALE: 1" = 200'
 DATE: JANUARY 11, 2021
 PROJECT NUMBER: 19080319-110302

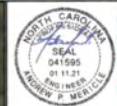
C3.6



Norwich Road, Thorpe-Abbotts Lane, College Way Exhibit - Areas 27, 31, 32, 33, 34, 35



Magnolia Avenue and Madison Avenue Exhibit - Areas 47, 50, 51, 52



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SITE EXHIBITS
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS	
DESIGNED BY:	SLF
DRAWN BY:	SLF
CHECKED BY:	APM
SCALE:	1" = 75'
DATE:	JANUARY 11, 2021
PROJECT NUMBER:	19080319-110302

C3.7

Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude
01	412	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35 11528905	-77 12459309		
	414	Remove sediment and vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 11530985	-77 12655679	35 11536871	-77 12844695
	416	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35 11576802	-77 12844128		
	418	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35 11818889	-77 12838192		
	420	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35 11986216	-77 12833950		
02	423	Remove sediment and vegetative (miscellaneous) debris accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the RCP flowing into the ditch	35 12347735	-77 12826486		
	429	Remove sediment and vegetative (miscellaneous) debris accumulated in bottom of ditch, grade to match invert.	Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35 10734005	-77 11342660	35 10728168	-77 11360957
	595	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the CMP flowing into the ditch	35 11288492	-77 10935350		
03	597	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the CMP flowing into the ditch, Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35 11293777	-77 10939708	35 11391390	-77 10851791
	599	Remove 12" of sediment accumulated in an undetermined length of 36" CMP, assumed 300 LF.	Place outlet stabilization structure at the 36" CMP flowing into the ditch	35 11530215	-77 10722808	35 11596577	-77 10655593
	600	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35 11530215	-77 10722808	35 11391390	-77 10851791
	442	Remove vegetative (large woody) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 12008898	-77 11232868		
04	445	Remove 6" of sediment accumulated in 85 LF of 24" CMP. Remove vegetative (miscellaneous) debris accumulated in bottom of ditch.	Place outlet stabilization structure at the 24" CMP flowing into the ditch	35 11776532	-77 10643884	35 11757674	-77 10660835
	447	Remove vegetative (large woody) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 11698133	-77 10485234		
	449	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the CMP flowing into the ditch, Place 1 check dam immediately downstream of the debris	35 11628720	-77 10363148		
	451	Remove vegetative (large woody) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 11505760	-77 10167131		
	453	Remove sediment and vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 11387563	-77 10005230		
	454	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the RCP flowing into the ditch, Place 1 check dam immediately downstream of the debris	35 11346816	-77 09957236	35 11323855	-77 09941002
05	434	Remove 12" of sediment accumulated in 87 LF of 18" CMP	Place outlet stabilization structure at the 18" CMP flowing into the ditch	35 11415831	-77 10384419	35 11439321	-77 10377162
06	432	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35 11395881	-77 10296775		
07	402	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the RCP flowing into the ditch, Place 1 check dam at the midway point of the ditch	35 11387989	-77 10062890		
08	410	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-6" diameter large woody debris, 2-8" diameter large woody debris, 1-15" diameter large woody debris, 1-18" diameter large woody debris, 1-24" diameter large woody debris, 3-4" diameter trees, 1-6" diameter tree, 1-24" diameter tree, and 1-48" diameter tree	n/a	35 10429409	-77 11392961	35 10431669	-77 11444578
	411	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-4" diameter large woody debris, 2-6" diameter large woody debris, 3-2" diameter trees, 1-4" diameter tree, and 1-6" diameter tree	n/a	35 10427970	-77 11480031		
	490	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 3-2" diameter large woody debris, 2-3" diameter large woody debris, 5-4" diameter large woody debris, 3-6" diameter large woody debris, 1-8" diameter large woody debris, 1-12" diameter large woody debris, 1-26" diameter large woody debris, 1-8" diameter tree, and approximately 0.25 cubic yards of miscellaneous vegetative debris.	n/a	35 10418773	-77 11031244	35 10417398	-77 11071905
	491	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 3-4" diameter large woody debris, 3-6" diameter large woody debris, 2-4" diameter trees, 1-6" diameter trees, 1-12" diameter trees, 1-24" diameter trees, and approximately 0.5 cubic yards of miscellaneous vegetative debris.	n/a	35 10417398	-77 11071905	35 10421365	-77 11119785
	492	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-2" diameter large woody debris, 1-4" diameter large woody debris, 1-5" diameter large woody debris, 1-6" diameter large woody debris, 2-8" diameter large woody debris, 1-12" diameter large woody debris, 1-18" diameter large woody debris, 1-8" diameter tree, 1-10" diameter tree, 1-15" diameter tree, 1-24" diameter tree, and approximately 4.25 cubic yards of miscellaneous vegetative debris.	n/a	35 10421580	-77 11150380	35 10428964	-77 11238364
493	Remove vegetative (large woody and miscellaneous) debris, uprooted trees, and construction debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-4" diameter large woody debris, 1-6" diameter large woody debris, 2-8" diameter large woody debris, 3-12" diameter large woody debris, 1-18" diameter large woody debris, 5-4" diameter trees, 3-6" diameter trees, 1-8" diameter trees, 1-12" diameter trees, and approximately 0.25 cubic yards of miscellaneous vegetative debris.	n/a	35 10449805	-77 11289292	35 10443044	-77 11337650	
09	482	Remove uprooted trees.	n/a	35 10761961	-77 10760753		
10	485	Remove sediment and vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35 10649393	-77 10921753		
11	486	Remove sediment and vegetative (miscellaneous) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 10598403	-77 10939853		
	487	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35 10509178	-77 10981594		
12	488	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35 10475467	-77 10985266		
	489	Remove uprooted trees.	n/a	35 10435663	-77 10975409		
13	403	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the RCP flowing into the ditch, Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35 11032934	-77 10022898		
14	405	Remove sediment accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 10886352	-77 10037491		
	406	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 10856669	-77 10043418	35 10977411	-77 10071741
15	473	Remove vegetative (large woody) debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-4" diameter large woody debris, 1-6" diameter large woody debris, 1-8" diameter large woody debris, and 1-15" diameter large woody debris.	n/a	35 10853043	-77 10065122		



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JIMMIES CREEK REMEDIATION & ESC PLAN
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISED BY: [blank]
 DATE: [blank]
 DRAWN BY: [blank]
 CHECKED BY: [blank]
 IN CHARGE: [blank]
 DATE: JANUARY 11, 2021
 PROJECT NUMBER: 19080319-110302

Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude
16	470	Remove vegetative (large woody and miscellaneous) debris, and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the bank. Vegetative debris observed, but is not limited to, 1-2" diameter large woody debris, 1-4" diameter large woody debris, 1-6" diameter large woody debris, 1-8" diameter large woody debris, 1-12" diameter large woody debris, 1-4" diameter tree, and approximately 1.25 cy of miscellaneous vegetative debris.	n/a	35 10800453	-77 10180751	35 10836608	77 10148844
	472	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch. Secure vegetative debris to the bank. Vegetative debris observed, but is not limited to, 1-4" diameter large woody debris, 1-6" diameter large woody debris, 1-8" diameter large woody debris, 1-10" diameter large woody debris, 1-12" diameter large woody debris, and approximately 0.5 cy of miscellaneous vegetative debris.	n/a	35.10841948	-77 10143564		
17	456	Remove vegetative (large woody) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 11001260	-77 10383029		
	457	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 10998455	-77 10382493		
	459	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 10944437	-77 10370874		
	461	Remove uprooted tree	Place 1 check dam immediately downstream of the uprooted tree	35 10919469	-77 10348819		
18	464	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch.	n/a	35 10843374	-77 10311253	35 10771509	-77 10323840
	465	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	n/a	35 10771509	-77 10323840	35 10707841	-77 10310457
19	475	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35 10694768	-77 10326484		
20	477	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35 10655686	-77 10361718		
21	478	Remove sediment accumulated in bottom of ditch at culvert inlet and concrete flume	Place 1 check dam immediately downstream of the flume	35 10620164	-77 10445367		
22	484	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch	n/a	35 10560492	-77 10666438		
23	480	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the RCP flowing into the ditch, Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation.	35 10696200	-77 10030303	35 10691126	-77 10076358
24	481	Remove sediment and vegetative (miscellaneous) debris accumulated in bottom of ditch, grade to match invert or provide positive drainage	Place outlet stabilization structure at the RCP flowing into the ditch, Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation.	35 10744371	-77 09784406	35 10748226	-77 09933956
25	495	Remove 6" of sediment accumulated in 65 LF of 24" RCP. Remove vegetative (large woody) debris accumulated in bottom of ditch.	Place outlet stabilization structure at the RCP flowing into the ditch	35 10587142	-77 10095264	35 10581029	-77 10074896
	496	Remove sediment accumulated in bottom of ditch upstream of culvert inlet, grade to match invert.	Place outlet stabilization structure at the RCP flowing into the ditch, Place 1 check dam at the midway point of the ditch	35 10587550	-77 10097617		
26	494	Remove vegetative (miscellaneous) debris accumulated at culvert inlet.	Place 1 check dam immediately downstream of the debris	35 10559846	-77 10292091		
27	497	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the CMP flowing into the ditch, Place 1 check dam at the midway point of the ditch	35 10412616	-77 10238762	35 10423610	-77 10143769
	498	Remove 6" of sediment accumulated in 58 LF of 24" CMP, 24" HDPE, and drop inlet.	n/a	35 10425918	-77 10123959	35 10423610	-77 10143769
	499	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the HDPE flowing into the ditch, Place rock pipe inlet protection at RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10425918	-77 10123959	35 10427833	-77 10053356
	501	Remove 18" of sediment accumulated in 164 LF of 30" RCP and drop inlet.	Place outlet stabilization structure at the 30" RCP flowing into the ditch	35 10449136	-77 09996794	35 10440291	-77 10050684
28	584	Remove uprooted trees.	n/a	35 10446598	-77 10567654		
	585	Remove uprooted tree	Place 1 check dam immediately downstream of uprooted trees	35 10425130	-77 10648880		
	588	Remove vegetative (large woody and miscellaneous) debris and construction debris accumulated in bottom of ditch.	n/a	35 10407042	-77 10713752		
29	574	Remove vegetative (large woody and miscellaneous) debris, uprooted trees, and miscellaneous debris accumulated in bottom of ditch.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation.	35 10445999	-77 10439577	35 10456852	-77 10426870
	577	Remove vegetative (miscellaneous) debris, uprooted trees and construction debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35 10483700	-77 10390493		
30	569	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35 10412573	-77 10432408		
	570	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35 10416049	-77 10448261	35 10420322	-77 10467068
	581	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structures at each of the HDPE culverts flowing into the ditch.	35 10403395	-77 10382751		
	557	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the RCP flowing into the ditch, Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35 10376431	-77 10393186	35 10388962	-77 10379365
31	556	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the RCP flowing into the ditch, Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35 10367150	-77 10403391	35 10372724	-77 10397275
	560	Remove 12" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10367150	-77 10403391	35 10363675	-77 10407598
	562	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the RCP flowing into the ditch, Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35 10349482	-77 10427170	35 10363675	-77 10407598
	563	Remove 6" of sediment and miscellaneous debris accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10349482	-77 10427170	35 10345691	-77 10432896
32	566	Remove 6" of sediment accumulated in 42 LF of 24" RCP	Place outlet stabilization structure at the 24" RCP flowing into the ditch	35 10448870	-77 10330479	35 10439937	-77 10321970
33	537	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place outlet stabilization structure at the 15" RCP flowing into the ditch, Place 1 check dam immediately downstream of sediment deposits	35 10421211	-77 10290869		
	539	Remove 6" of sediment accumulated in 20 LF of 15" RCP	n/a	35 10419218	-77 10290118	35 10414160	-77 10287490
	541	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place outlet stabilization structure at the 15" RCP flowing into the ditch, Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10414160	-77 10287490	35 10377953	-77 10274079
	543	Remove 6" of sediment accumulated in 20 LF of 15" RCP	n/a	35 10377953	-77 10274079	35 10371922	-77 10273321
	544	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place outlet stabilization structure at the 15" RCP flowing into the ditch, Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10350944	-77 10269819	35 10371922	-77 10273321
	545	Remove 12" of sediment accumulated in 20 LF of 15" RCP	n/a	35 10350944	-77 10269819	35 10347380	-77 10269249
	546	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place outlet stabilization structure at the 15" RCP flowing into the ditch, Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10347380	-77 10269249	35 10321296	-77 10263899
	548	Remove 12" of sediment accumulated in 20 LF of 15" RCP	n/a	35 10321296	-77 10263899	35 10315996	-77 10263042




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JIMMIES CREEK REMEDIATION & ESC PLAN
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS	01/11/2011
ISSUED BY	SEL
DESIGNED BY	SEL
CHECKED BY	ATM
DRAWN BY	NOB
DATE	MARCH 11, 2011
PROJECT NUMBER	1908031B-110302

Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude	
33	549	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place outlet stabilization structure at the 15" RCP flowing into the ditch, Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10303145	-77 10261291	35.10315996	-77 10263042	
	550	Remove 12" of sediment accumulated in 20 LF of 15" RCP	n/a	35 10303145	-77 10261291	35 10297996	-77 10260006	
	552	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place outlet stabilization structure at the 15" RCP flowing into the ditch, Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10273026	-77 10254084	35 10297996	-77 10260006	
	553	Remove 12" of sediment accumulated in 20 LF of 15" RCP	n/a	35 10273026	-77 10254084	35 10268427	-77 10252191	
	555	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35 10232753	-77 10241542	35 10268427	-77 10252191	
34	513	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35 10352389	-77 10285169			
	515	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.10347646	-77 10284131	35 1035 1081	-77 10284950	
	516	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35.10347646	-77 10284131	35.10328715	-77 10279346	
	518	Remove 12" of sediment accumulated in 21 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10328715	-77 10279346	35 10322802	-77 10278283	
	520	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10313770	-77 10276320	35 10322802	-77 10278283	
	521	Remove 12" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10313770	-77 10276320	35 10308521	-77 10275324	
	524	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10308521	-77 10275324	35 10287253	-77 10272054	
	527	Remove 12" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10287253	-77 10272054	35 10281643	-77 10271444	
	528	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10281643	-77 10271444	35 10249362	-77 10262448	
	529	Remove 12" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10249362	-77 10262448	35 10244017	-77 10260678	
	530	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10244017	-77 10260678	35 10222769	-77 10253342	
	531	Remove 12" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10222769	-77 10253342	35 10218924	-77 10252161	
	532	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35.10211021	77 10249458	35.10218924	-77 10252161	
	533	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10211021	-77 10249458	35 10205786	-77 10247917	
	534	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35 10171017	-77 10232429	35 10205786	-77 10247917	
	535	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35 10171017	-77 10232429	35 10166605	-77 10230627	
	536	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	n/a	35 10166605	-77 10230627	35 10133818	-77 10216256	
	35	590	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to: 1-4" diameter large woody debris, 2-6" diameter large woody debris, 2-8" diameter large woody debris, 2-12" diameter large woody debris, 2-6" diameter trees, 1-8" diameter tree, and approximately 1 cubic yards of miscellaneous vegetative debris.	n/a	35 10319479	-77 10885559		
		592	Remove vegetative (large woody) debris and leaning tree. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to: 1-6" diameter tree, and 1-24" diameter tree.	n/a	35 10326393	-77 10883845		
		610	Remove vegetative (miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to: 2-2" diameter trees, 1-6" diameter tree, and approximately 1.5 cubic yards of miscellaneous vegetative debris.	n/a	35 10050215	-77 10914024	35 10136394	-77 10890735
611		Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to: 3-2" diameter large woody debris, 1-4" diameter large woody debris, 4-8" diameter large woody debris, 1-12" diameter large woody debris, 1-15" diameter large woody debris, 1-24" diameter large woody debris, 5-2" diameter trees, 1-4" diameter trees, 1-6" diameter tree, and 1-18" diameter trees.	n/a	35 10136394	-77 10890735	35 10231212	-77 10873048	
612		Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to: 5-6" diameter large woody debris, 4-8" diameter large woody debris, 1-10" diameter large woody debris, 2-12" diameter large woody debris, 3-2" diameter trees, 1-4" diameter tree, 1-6" diameter tree, 1-8" diameter tree, 5-12" diameter trees, and 1-24" diameter tree.	n/a	35 10231212	-77 10873048	35 10316922	-77 10885868	
36	603	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the 36" HDPE flowing into the ditch, Place 1 check dam at the midway point of the ditch	35 09974320	-77 11146950	35 09957187	-77 11149611	
	604	Remove 18" of sediment accumulated in 128 LF of 36" HDPE	Place outlet stabilization structure at the 36" HDPE flowing into the ditch	35 09924673	-77 11143104	35 09957553	-77 11146419	
	605	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place 1 check dam at the midway point of the ditch. Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35 09968733	-77 11048908	35 09957187	-77 11149611	
37	606	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to: 1-4" diameter large woody debris, 1-6" diameter large woody debris, and approximately 3.5 cubic yards of miscellaneous vegetative debris.	n/a	35 09979497	-77 10951664			
	607	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to: 1-2" diameter large woody debris, 1-4" diameter large woody debris, 1-6" diameter large woody debris, 1-8" diameter large woody debris, 1-12" diameter large woody debris, 1-15" diameter large woody, 3-6" diameter trees, 5-8" diameter trees, 1-10" diameter tree, 3-12" diameter trees and 1-15" diameter tree.	n/a	35 09979934	-77 10947419	35 10038809	-77 10911982	



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JIMMIES CREEK REMEDIATION & ESC PLAN
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION
1	01/11/2021	ISSUED FOR PERMIT

DATE: JANUARY 11, 2021
 PROJECT NUMBER: 10080810-110302

C4.3

Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude
37	614	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 5-4" diameter large woody debris, 6-6" diameter large woody debris, 1-8" diameter large woody debris, 2-10" diameter large woody debris, 13-12" diameter large woody debris, 1-12" diameter tree, 3-15" diameter trees, and 1-24" diameter tree	n/a	35.09987508	-77.10873823	35.09888992	-77.10822231
	615	Remove vegetative (large woody and miscellaneous) debris, uprooted trees, and miscellaneous debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 4-2" diameter large woody debris, 2-3" diameter large woody debris, 4-4" diameter large woody debris, 6-6" diameter large woody debris, 5-12" diameter large woody debris, 2-15" diameter large woody debris, 2-24" diameter large woody debris, and approximately 1.5 cubic yards of miscellaneous vegetative debris.	n/a	35.09888992	-77.10822231	35.09839054	-77.10749177
	618	Remove vegetative (large woody and miscellaneous) debris, uprooted trees, and miscellaneous debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 6-4" diameter large woody debris, 6-6" diameter large woody debris, 3-8" diameter large woody debris, 5-12" diameter large woody, 4-2" diameter trees, 1-3" diameter tree, 2-6" diameter trees, 2-12" diameter trees, 1-18" diameter tree, and approximately 1.5 cubic yards of miscellaneous vegetative debris.	n/a	35.09839054	-77.10749177	35.09826228	-77.10661277
	619	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed includes, but is not limited to, 1-10" diameter large woody debris, 1-8" diameter tree, 2-12" diameter trees, and 1-15" diameter tree	n/a	35.09826692	-77.10650490	35.09826919	-77.10631432
	620	Remove uprooted tree. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-8" diameter tree	n/a	35.09679567	-77.10546990		
	621	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-2" diameter large woody debris, 1-4" diameter large woody debris, 2-6" diameter large woody debris, 3-8" diameter large woody debris, 3-12" diameter large woody debris, 1-15" diameter large woody debris, 2-18" diameter large woody debris, 1-8" diameter tree, 1-18" diameter tree, and approximately 4 cubic yards of miscellaneous vegetative debris.	n/a	35.09826418	-77.10599476	35.09758750	-77.10549914
	622	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-4" diameter large woody debris, 1-12" diameter large woody debris, 1-4" diameter tree, and approximately 1.5 cubic yards of miscellaneous vegetative debris.	n/a	35.09746672	-77.10547330		
	623	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-5" diameter tree, 1-6" diameter tree, 1-8" diameter tree, and 2-10" diameter trees.	n/a	35.09713826	-77.10540624		
38	616	Remove uprooted tree	Place 1 check dam immediately downstream of the uprooted tree	35.09900927	-77.10711468		
	617	Remove uprooted tree	Place 1 check dam immediately downstream of the uprooted tree	35.09895843	-77.10758650		
39	467	Remove uprooted tree	Place 1 check dam immediately downstream of uprooted tree	35.099398733	-77.10557016		
40	469	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.09334630	-77.10502160		
	471	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.09329118	-77.10487786		
41	593	Remove sediment accumulated in bottom of ditch, grade to match invert.	n/a	35.10041923	-77.09314488		
	594	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the inlet flowing into the ditch	35.10025166	-77.09332077	35.10016494	-77.09331966
42	596	Remove miscellaneous debris accumulated in bottom of ditch.	n/a	35.09881511	-77.09313083		
43	512	Remove miscellaneous (3 shopping carts) debris accumulated in bottom of ditch.	n/a	35.09826261	-77.09260963		
44	598	Remove sediment, construction debris, and miscellaneous debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of debris	35.09822639	-77.09306100	35.09787481	-77.09299631
44	602	Remove vegetative (large woody and miscellaneous) debris and miscellaneous debris accumulated in bottom of ditch.	n/a	35.09689804	-77.09284546	35.09758449	-77.09294675
45	601	Remove vegetative (large woody and miscellaneous) debris, uprooted trees, and miscellaneous debris accumulated in bottom of ditch.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35.09685621	-77.09197820	35.09648303	-77.09281445
46	613	Remove uprooted tree	n/a	35.09856996	-77.09059742		
47	586	Remove 6" of sediment accumulated in 20 LF of 15" RCP culvert.	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09724080	-77.09057843	35.09719406	-77.09054729
	587	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.09695956	-77.09031992	35.09719406	-77.09054729
	589	Remove 6" of sediment accumulated in 20 LF of 15" RCP culvert.	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09695956	-77.09031992	35.09691374	-77.09027638
48	514	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of debris	35.09694185	-77.09129462		
	517	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.09681559	-77.09094735	35.09545468	-77.08952130
	519	Remove vegetative (large woody and miscellaneous) debris and miscellaneous debris accumulated in bottom of ditch	n/a	35.09500084	-77.08915784	35.09539341	-77.08944767
	522	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch	n/a	35.09400567	-77.09006384	35.09500084	-77.08915784
49	608	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch	Place 1 check dam immediately downstream of debris	35.09459355	-77.08880116	35.09446852	-77.08915189
	609	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.09467194	-77.08873695		
50	583	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the RCP flowing into the ditch. Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35.09609266	-77.08932022	35.09639052	-77.08960320
51	538	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the RCP flowing into the ditch, Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35.09717548	-77.08792471	35.09719116	-77.08775497
	540	Remove 6" of sediment accumulated in 20 LF of 15" RCP	n/a	35.09719116	-77.08775497	35.09720216	-77.08768030
	542	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the RCP flowing into the ditch	35.09720216	-77.08768030	35.09722000	-77.08749314
52	547	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.09730601	-77.08662841	35.09731266	-77.08641195
	551	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09729312	-77.08630791	35.09731266	-77.08641195
	554	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.09729312	-77.08630791	35.09725343	-77.08621160
	556	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09725343	-77.08621160	35.09719477	-77.08612300
	559	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at inlet the ditch is flowing into	35.09719477	-77.08612300	35.09678410	-77.08589651
	561	Remove 6" of sediment accumulated in 20 LF of 12" RCP	Place outlet stabilization structure at the 12" RCP flowing into the ditch	35.09678410	-77.08589651	35.09674898	-77.08595815
	564	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into, Place 1 check dam at the midway point of the ditch	35.09674898	-77.08595815	35.09649969	-77.08638808



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JIMMIES CREEK REMEDIATION & ESC PLAN
HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
JIMMIES CREEK DRAINAGE BASIN

REVISIONS	
NO. 1	ISSUED
DATE	JANUARY 11, 2024
PROJECT NUMBER	19080315-1109262

Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude	
52	565	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09649969	-77.08638808	35.09646945	-77.08644162	
	567	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.09646945	-77.08644162	35.09644387	-77.08648688	
	568	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09644387	-77.08648688	35.09642233	-77.08652501	
	571	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09634784	-77.08664398	35.09631536	-77.08669525	
	572	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.09642233	-77.08652501	35.09634784	-77.08664398	
	573	Remove 6" of sediment accumulated in 20 LF of 15" HDPE	Place rock pipe inlet protection at 15" HDPE inlet the ditch is flowing into	35.09627068	-77.08677708	35.09629841	-77.08672567	
	575	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.09627068	-77.08677708	35.09621540	-77.08687331	
	576	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.09619365	-77.08691096	35.09616955	-77.08695348	
	578	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09621540	-77.08687331	35.09619365	-77.08691096	
	579	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09616955	-77.08695348	35.09614055	-77.08700525	
	580	Remove sediment accumulated in bottom of ditch, grade to provide positive drainage along entire reach.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.09614055	-77.08700525	35.09600213	-77.08723652	
	582	Remove 6" of sediment accumulated in 20 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09600213	-77.08723652	35.09597046	-77.08729681	
	53	591	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35.09570229	-77.08764170	35.09579526	-77.08734166
		523	Remove uprooted tree	Place 1 check dam immediately downstream of uprooted tree	35.09397800	-77.09245600		
54	525	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place rock pipe inlet protection at CMP the ditch is flowing into. Place 1 check dam at the midway point of the ditch	35.09361944	-77.09079046	35.09362124	-77.09139835	
	510	Remove uprooted trees.	n/a	35.09200115	-77.09063068			
56	508	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation and have the lower of the two be immediately downstream of the debris	35.09194639	-77.09415830	35.09148156	-77.09283353	
	509	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks that cannot be accessed from proposed temporary access road	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation and have the lower of the two be immediately downstream of the debris	35.09148156	-77.09283353	35.09148624	-77.09051598	
	474	Remove uprooted tree	n/a	35.09261998	-77.09897080			
57	476	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.09234869	-77.09805393	35.09246557	-77.09859572	
	479	Remove uprooted trees.	n/a	35.09229244	-77.09656814			
	511	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-20" diameter large woody debris, 1-4" diameter tree, 1-6" diameter tree, and 1-16" diameter tree	n/a	35.09211800	-77.09613823			
59	507	Remove vegetative (large woody) debris and uprooted tree accumulated in bottom of ditch.	n/a	35.09189936	-77.09494538			
	500	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 5-6" diameter trees, 2-10" diameter trees, 4-12" diameter trees, and 2-24" diameter trees.	n/a	35.09124539	-77.09584151			
	502	Remove vegetative (large woody) debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-4" diameter large woody debris, 2-7" diameter large woody debris, and 1-8" diameter large woody debris.	n/a	35.09078590	-77.09613223			
	503	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-6" diameter large woody debris and approximately 1 cubic yard of miscellaneous vegetative debris.	n/a	35.09059103	-77.09636078			
	504	Remove vegetative (miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to 1-8" diameter tree 1-18" diameter tree, and approximately 0.5 cubic yards of miscellaneous vegetative debris.	n/a	35.09030260	-77.09672538			
60	505	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.08984736	-77.09693342	35.08904474	-77.09815449	
	506	Remove uprooted trees	n/a	35.08887238	-77.09845672			



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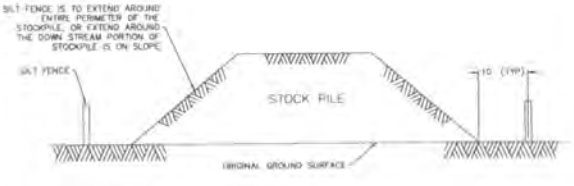
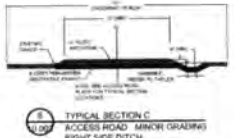
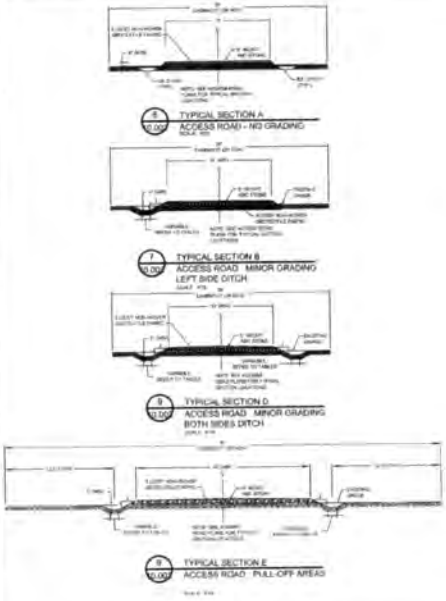
JIMMIES CREEK REMEDIATION & ESC PLAN
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 JIMMIES CREEK DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION

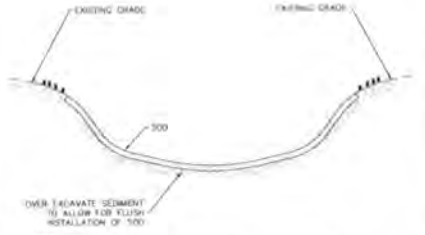
DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 SCALE: []
 DATE: JANUARY 11, 2011
 PROJECT NUMBER: 10960319-110302

C4.5

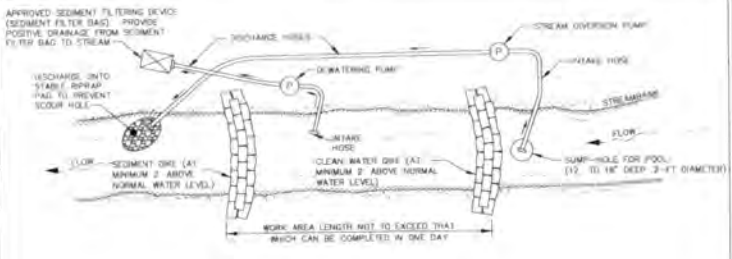


- NOTES:**
1. AN ON-SITE DRAINAGE SWALE SHALL BE LOCATED BETWEEN THE STOCKPILE AND OFF-SITE PROPERTY.
 2. REFERENCE IS MADE TO THE SALT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS.
 3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITH BURLAP MATTING OR SLEDED WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION.
 4. INSPECTION OF SALT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 5. SEDIMENT TRAPPED BY THE FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
 6. SALT FENCES SHALL BE MAINTAINED IN PLACE UNTIL THE STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY THE CITY.

STOCK PILE
NOT TO SCALE



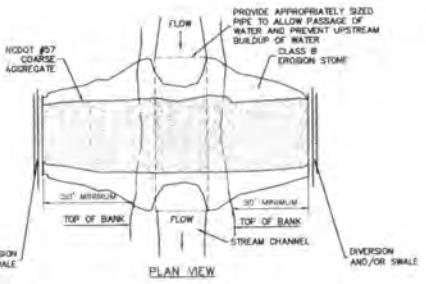
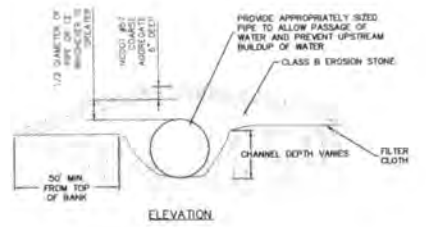
RESIDENTIAL DITCH RECLAMATION
NOT TO SCALE



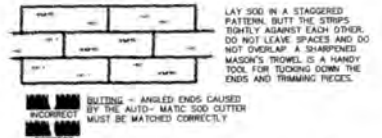
- TEMPORARY PUMP AROUND SEQUENCE:**
1. SET UP PUMP WITH SUCTION AND DISCHARGE HOSE.
 2. INSTALL UP-STREAM SANDBAG DAM.
 3. INSTALL DOWN-STREAM SANDBAG DAM.
 4. THE PUMP MUST RUN CONTINUOUSLY WHILE WORKING IN THE STREAM.
 5. STREAMBANKS MUST BE STABILIZED AT THE END OF EACH DAY.

- NOTES:**
1. SANDBAG DAMS SHALL BE STABILIZED AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE WORK AREA, AND STREAM FLOW SHALL BE FUNNED AROUND THE WORK AREA. THE PUMP SHOULD DISCHARGE ONTO A STABLE VELOCITY RESPONSIVE CONSTRUCTION OF BERM OR SANDBAGS.
 2. WATER FROM THE WORK AREA SHALL BE PUMPED TO A SEDIMENT FILTERING MEASURE SUCH AS A SEDIMENT BAG OR OTHER APPROVED DEVICE. THE MEASURE SHALL BE LOCATED SUCH THAT THE WATER BRAINS BACK INTO THE CHANNEL BELOW THE DOWNSTREAM SANDBAG DAM WITHOUT CAUSING FURTHER EROSION BETWEEN THE SEDIMENT FILTER BAG AND THE STREAMBANK.

TEMPORARY PUMP AROUND
NOT TO SCALE



TEMPORARY STREAM CROSSING
NOT TO SCALE

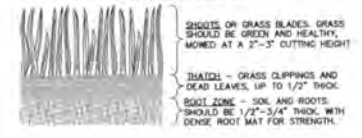


ROLL SOD IMMEDIATELY TO ADHENE FROM CONTACT WITH THE ROLL.

WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

MOW WHEN THE SOD IS ESTABLISHED - IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD



SODDING DETAIL
NOT TO SCALE



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• Loudoun County, VA



DETAILS
HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
JIMMIES CREEK DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY: JLP
 DRAWN BY: JLP
 CHECKED BY: JPM
 SCALE: NONE
 DATE: JANUARY 11, 2021
 PROJECT NUMBER: 19080319-110302

C5.1

AGENDA ITEM COVER SHEET

Agenda Item Title:

Consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern all contract documents and change orders within the contract amount for the Hurricane Florence Category A drainage ditch project within the Trent River drainage basin.

Date of Meeting: 2/23/2021	Ward # if applicable: Ward 2
Department: Public Works	Person Submitting Item: Matt Montanye, Director of Public Works
Call for Public Hearing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of Public Hearing: N/A

Explanation of Item:	Over the past two years the City has been working with FEMA on a project to remove sediment and debris from 66 miles of drainage ditches throughout the City. This project is for the Trent River Drainage Basin.
Actions Needed by Board:	Adopt attached resolution
Backup Attached:	Memo, Resolution, Bid Tabulation, Advertisement for Bids, Notice to withdraw bid, Project Plan

Is item time sensitive? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cost of Agenda Item: \$469,830.00
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes:



Public Works Department
P.O. Box 1129, 1004 S. Glenburnie Road
New Bern, N.C. 28563-1129
Phone: (252) 639-7501
Fax: (252) 636-1848

February 12, 2021

Memo to: Mayor and Board of Aldermen

From: Matt Montanye, Director of Public Works

Re: Consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern all contract documents and change orders within the contract amount for the Trent River Category A, Hurricane Florence drainage ditch project.

Background Information

In late 2018 following Hurricane Florence, the City of New Bern began working with FEMA on a project to remove sediment and debris from 66 miles of drainage ditches within the City. This project was obligated by FEMA on January 27, 2020. Since being obligated, the City has been working with Draper Aden and Associates to identify damages, develop construction plans and to obtain state and federal permits for work within ten different drainage basins. On January 4, 2021, the Trent River drainage basin Category A project was advertised for bids and on February 2, 2021, three bids were received and opened, with the low bidder for this project being Grillot Construction Company LLC, with a bid price of \$469,830.00. The Trent River drainage basin project consist of removing debris from 74 locations, consisting of more than 152 tons of vegetative debris, 1200 cubic yards of sediment, 8 tons of miscellaneous debris and the cleaning of 1,650-feet of drainage culverts. The contract time for this project is 120 days.

Recommendation

Draper Aden and Associates have vetted Grillot Construction Company, LLC and found no issues or concerns. The Public Works Department is recommending and request the Board consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern, all contract documents and any change orders for the Trent River Category A, Hurricane Florence drainage ditch project within the contract amount.

If you have any questions concerning this matter, please feel free to contact me directly.

cc: George Chiles, Staff Engineer

RESOLUTION

THAT WHEREAS, the Trent River, Hurricane Florence Category A Drainage Ditch Project was publicly advertised on January 4, 2021 and a pre-bid meeting was held on January 26, 2021; and

WHEREAS, the following two qualified bids were received on February 2, 2021:

Grillot Construction Company, LLC	\$ 469,830.00
Trader Construction Company, Inc.	\$ 681,810.00
Carolina Cleaning and Restoration	Bid Withdrawn

WHEREAS, the Director of Public Works of the City of New Bern recommends the City Manager be authorized to execute contract documents with the lowest bidder, Grillot Construction Company, LLC, for the Trent River Category A, Hurricane Florence Drainage Ditch Project and any change orders within the budgeted amount.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN:

That the City Manager is hereby authorized to execute on behalf of the City of New Bern all contract documents with Grillot Construction Company, LLC for the Trent River Category A, Hurricane Florence Drainage Ditch Project, and any change orders within the budgeted amount.

ADOPTED THIS 23rd DAY OF FEBRUARY 2021.

DANA E. OUTLAW, MAYOR

BRENDA E. BLANCO, CITY CLERK

CERTIFIED BID TABULATION



Draper Aden Associates
Engineering • Surveying • Environmental Services

PROJECT: Hurricane Florence Debris Removal Activities - Trent River Drainage Basin
PROJECT #: 19080319-11
BID DATE: February 2, 2021
BID TIME: 1 30 PM
LOCATION: City of New Bern Public Works Department / Microsoft Teams

	Grillot Construction, LLC	Trader Construction Company	Carolina Cleaning and Restoration, LLC		
Bid Bond	✓	✓			
Contractor's License Information	#84473	#2943			
Bidder Qualification Statement	✓	✓			
City's General Provisions and Byrd Anti Lobbying Certification	✓	✓			
Anti-Collusion Affidavit	✓	✓			
MBE / HUB Documentation	✓	✓			
Bid Signed	✓	✓			
Receipt of Addenda	✓	✓			
Base Bid Total	\$469,830.00	\$681,810.00	BID WITHDRAWN		

This is to certify that the bids tabulated herein were publicly opened and read aloud at 1:30 PM on the Second day of February, 2021, at the City of New Bern Public Works Department in New Bern, North Carolina



DETAILED BID TABULATION



PROJECT: Hurricane Florence Debris Removal Activities - Trent River Drainage Basin
PROJECT #: 19080319-11
BID DATE: February 2, 2021
BID TIME: 1:30 PM
LOCATION: City of New Bern Public Works Department / Microsoft Teams

Item	Description	Units	Quantity	Grillot Construction, LLC		Trader Construction Company		Unit Cost	Extended Cost
				Unit Cost	Extended Cost	Unit Cost	Extended Cost		
Base Bid									
1	Mobilization (3% Maximum)	EA	1	\$ 13,200.00	\$ 13,200.00	\$ 20,000.00	\$ 20,000.00		\$ -
2	Sediment and Erosion Control	EA	1	\$ 96,900.00	\$ 96,900.00	\$ 212,880.00	\$ 212,880.00		\$ -
3	Traffic Control	EA	1	\$ 44,200.00	\$ 44,200.00	\$ 50,000.00	\$ 50,000.00		\$ -
4	Install Temporary Construction Access	LF	6,250	\$ 11.00	\$ 68,750.00	\$ 17.00	\$ 106,250.00		\$ -
5	Sediment Removal	CY	1,200	\$ 56.50	\$ 67,800.00	\$ 122.00	\$ 146,400.00		\$ -
6	Jet Clean Pipe or Culvert	LF	1650	\$ 22.00	\$ 36,300.00	\$ 12.00	\$ 19,800.00		\$ -
7	Vegetative Debris Removal	Tons	152	\$ 628.00	\$ 95,456.00	\$ 370.00	\$ 56,240.00		\$ -
8	In-Place Vegetative Debris Removal	LF	5,520	\$ 8.00	\$ 44,160.00	\$ 12.00	\$ 66,240.00		\$ -
9	Miscellaneous Debris Removal	Tons	8	\$ 383.00	\$ 3,064.00	\$ 500.00	\$ 4,000.00		\$ -
					\$ 469,830.00		\$ 681,810.00		\$ -
				Cost Included on Bid Form	\$ 469,830.00		\$ 681,810.00		\$ -
				CONTRACT AMOUNT BASED ON UNIT BID ITEMS	\$ 469,830.00		\$ 681,810.00		\$ -

Matt Montanye

Subject: FW: Trent river drainage basin debris removal

From: George Chiles <ChilesG@newbernc.gov>
Sent: Thursday, February 4, 2021 2:20 PM
To: Carolina Cleaning and Restoration <carolinacleaningandrestoration@yahoo.com>
Cc: Matt Montanye <montanyem@newbernc.gov>; Matt Burnette <mburnette@daa.com>
Subject: RE: Trent river drainage basin debris removal

Ryan,

The City of New Bern is in receipt of your request to withdraw your bid for the *Hurricane Florence Debris Removal Activities- Trent River Basin Project* due to a mathematical error.

Thank you for your company's participation in the bidding process for this project. Please contact me should you have any questions.

Regards,



George Chiles
Staff Engineer

City of New Bern • Public Works Dept.
Mailing Address: P.O. Box 1129, New Bern, NC 28563
Shipping Address: 1004 S Glenburnie Road, New Bern, NC 28562
252-639-7522

From: Carolina Cleaning and Restoration <carolinacleaningandrestoration@yahoo.com>
Sent: Thursday, February 4, 2021 2:13 PM
To: George Chiles <ChilesG@newbernc.gov>
Subject: Trent river drainage basin debris removal

Good afternoon,

Due to a mathematical error on our bid price-sheet, we would like to be removed from the bid. We apologize for the inconvenience and if you have any questions feel free to call Ryan Bell at 252-944-8440
Please acknowledge that you have received email for our request.

Thank you,

Ryan Bell
Carolina Cleaning and Restoration

ADVERTISEMENT FOR BIDS

City of New Bern

New Bern, North Carolina

Hurricane Florence Debris Removal Activities – Trent River Drainage Basin

General Notice

The City of New Bern (Owner) is requesting Bids for the construction of the following Project:

Hurricane Florence Debris Removal Activities – Trent River Drainage Basin DAA PN: 19080319-110302

Bids for the construction of the Project will be received at the City of New Bern Public Works Department located at 1004 S. Glenburnie Road, until February 2, 2021 at 1:30 PM local time. At that time the Bids received will be publicly opened and read.

In response to the current State of Emergency and “Stay at Home” order pursuant of Executive Order 121, dated March 27, 2020, the public bid opening shall be made available through online video conference. Access to the online video conference shall be made available to all plan holders at least 24 hours prior to opening of bids.

The Project includes the following Work:

This project generally involves the removal of previously identified and as encountered sediment, vegetative debris, and miscellaneous debris within open-air stormwater ditches, piping, culverts, and wetlands. Work also includes clearing, grubbing, installation of access roads, necessary traffic control, erosion and sediment control, excavation, reduction, hauling of debris.

Bids are requested for the following Contract: **Hurricane Florence Debris Removal Activities – Trent River Drainage Basin**

Obtaining the Bidding Documents

Information and Bidding Documents for the Project can be found at the following designated website:

www.daa.com

Bidding Documents may be downloaded from the designated website. Prospective Bidders are urged to register with the designated website as a plan holder, even if Bidding Documents are obtained from a plan room or source other than the designated website in either electronic or paper format. The designated website will be updated periodically with addenda, lists of registered plan holders, reports, and other information relevant to submitting a Bid for the Project. All official notifications, addenda, and other Bidding Documents will be offered only through the designated website. Neither Owner nor Engineer will be responsible for Bidding Documents, including addenda, if any, obtained from sources other than the designated website.

The Issuing Office for the Bidding Documents is:

Draper Aden Associates

114 Edinburgh South Drive, Suite 200, Cary, NC 27511

Due to the ongoing COVID-19 pandemic, bidders are strongly encouraged to register as a plan holder from the aforementioned website. Physical documents will not be available from the Issuing Office. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including addenda, if any, obtained from sources other than the Issuing Office.

EJCDC® C-111, Advertisement for Bids for Construction Contract.

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The Owner is an Equal Opportunity Employer and encourages bidding by small, minority and female contractors and does not discriminate on the basis of handicapped status. Bids from qualified historically underutilized businesses (HUB's) are encouraged. Bidder must provide 10% of total contract cost to HUB's or demonstrate good faith effort. The Work will be subject to the prevailing wage rates and to the Equal Employment Opportunity requirements established by the U.S. Department of Labor. The project will be funded in whole/part using FEMA funds provided by the U.S. Department of Homeland Security. All Federal laws and regulations will apply to use of FEMA funds.

Digital copies of the Bidding Documents are available free of charge from the designated website. Physical copies of the Bidding Documents may be purchased from the Issuing Office. Cost does not include shipping charges. Upon Issuing Office's receipt of payment, printed Bidding Documents will be sent via the prospective Bidder's delivery service. The shipping charge amount will depend on the shipping method chosen. Bidding Documents are available for purchase in the following formats:

Format	Cost
Physical Bidding Documents (including Full-Size Drawings)	\$500

Pre-bid Conference

Pre-bid conference attendance is not required. A virtual pre-bid conference is scheduled, through Microsoft Teams, on January 26, 2021 at 1:30 PM. In response to the current State of Emergency and "Stay at Home" order pursuant of Executive Order 121, dated March 27, 2020, the pre-bid meeting shall be made available through online video conference. Access to the online video conference shall be made available to all interested parties at least 24 hours prior to the scheduled meeting. Interested parties are required to contact Kim Phillips by email at kphillips@daa.com to request the conference link.

Instructions to Bidders.

For all further requirements regarding bid submittal, qualifications, procedures, and contract award, refer to the Instructions to Bidders that are included in the Bidding Documents.

This Advertisement is issued by:

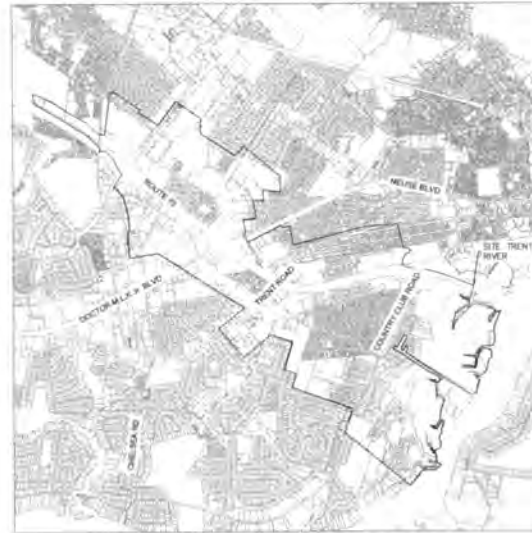
Owner: City of New Bern
 By: Matthew L. Montanye
 Title: Director of Public Works
 Date: January 4, 2021

HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES TRENT RIVER DRAINAGE BASIN

DECEMBER 30, 2020

RELEASED FOR BIDDING - NOT FOR CONSTRUCTION

NAME OF PROJECT: HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES TRENT RIVER DRAINAGE BASIN
 ENGINEER: ANDREW P. MERICLE, P.E.
 AMERICLEBA@A.COM
 DRAPER ADEN ASSOCIATES
 114 EDINBURGH SOUTH DRIVE
 SUITE 200 CARY, NC 27511
 FID: MULTIPLE
 DEED REFERENCE: MULTIPLE
 WATERSHED CLASSIFICATION: MISSISSIPPI RIVER BASIN
 DISTURBED AREA: 5.97 ACRES



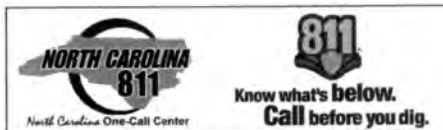
VICINITY MAP - NOT TO SCALE

Sheet Number	Sheet Title
C1.0	COVER SHEET
C2.0	NOTES
C2.1	NOISE NOTES
C2.5	SITE LAYOUT
C3.1	SITE DETAIL
C3.2	SITE DETAIL
C3.3	SITE DETAIL
C3.4	SITE DETAIL
C3.5	SITE DETAIL
C3.6	SITE DETAIL
C3.7	SITE DETAIL
C3.8	SITE DETAIL
CA.1	TRENT RIVER REMEDIATION & ESC PLAN
CA.2	TRENT RIVER REMEDIATION & ESC PLAN
CA.3	TRENT RIVER REMEDIATION & ESC PLAN
CA.4	TRENT RIVER REMEDIATION & ESC PLAN
CB.0	DETAILS
CB.1	DETAILS

DRAPER ADEN ASSOCIATES REVIEW

THESE PLANS HAVE BEEN SUBJECT TO TECHNICAL AND QUALITY REVIEWS BY

NAME: SAE FORTYTHI
 PROJECT DESIGNER
 SIGNATURE:
 DATE: 12/20/20
 NAME: MATTHEW C. BRUNETTE, P.E. CEM
 PROJECT MANAGER
 SIGNATURE:
 DATE: 12/20/20
 NAME: ANDREW P. MERICLE
 QUALITY REVIEWER
 SIGNATURE:
 DATE: 12/20/20



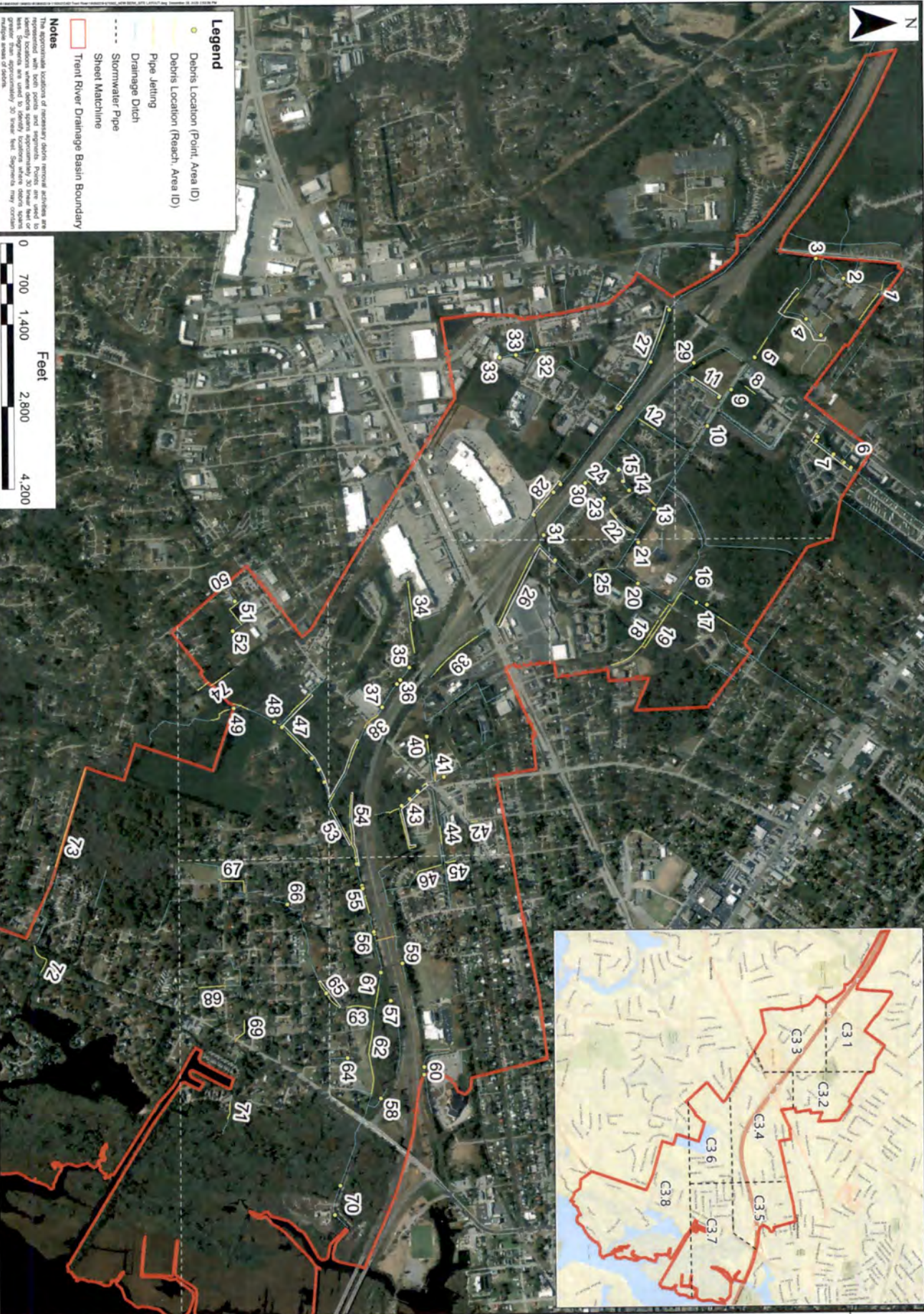
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 114 EDINBURGH SOUTH DRIVE
 SUITE 200 CARY, NC 27511
 WWW.DRAPERADEN.COM
 919.487.2424
 Raleigh, NC • Fayetteville, NC
 Charlotte, NC • Durham, NC
 Greensboro, NC • Virginia Beach, VA



COVER SHEET
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS	
NO. 001	DATE 12/30/20
ISSUED BY: S.F.	
CHECKED BY: S.F.	
DESIGNED BY: A.P.M.	
DRAWN BY: N.C.M.	
DATE: DECEMBER 30, 2020	
PROJECT NUMBER: 19080319-110302	

C1.0

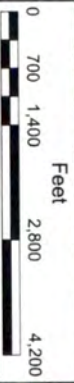


Legend

- Debris Location (Point, Area ID)
- Debris Location (Reach, Area ID)
- Pipe Letting
- Drainage Ditch
- Stormwater Pipe
- Sheet Matchline
- Trent River Drainage Basin Boundary

Notes

No apparent locations of man-made debris removal activities are shown in this map. Debris locations are shown as points and segments. Points are used to identify locations where debris spans approximately 20 linear feet or less. Segments are used to identify debris spans greater than 20 linear feet. Segments that contain multiple pieces of debris.



PROJECT NO.	C3.0
DATE	11/1/2017
SCALE	AS SHOWN
PROJECT LOCATION	19060319-1-10202
PROJECT OWNER	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	

SITE LAYOUT

HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES

TRENT RIVER DRAINAGE BASIN

Draper Aden Associates
 Engineering • Surveying • Environmental Services

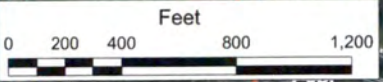
114 Edinburg South Drive, Suite 201
 Cary, NC 27513
 919-475-5188 Fax: 919-475-5874
 www.daa.com
 NC Prof. License # 1428

- Richmond, VA
- Blacksburg, VA
- Charlottesville, VA
- Hampton Roads, VA
- Fayetteville, NC
- Northern Virginia
- Virginia Beach, VA



- Legend**
- Debris Location (Point, Subarea ID)
 - Debris Location (Reach, Subarea ID)
 - Pipe Jetting
 - Drainage Ditch
 - - - Stormwater Pipe
 - In-Place Vegetative Debris Removal
 - Point of Access
 - Install Temporary Gravel Construction Entrance/Exit Access
 - Trent River Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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 114 Lexington Ave, Suite 200
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 919.833.9999
 www.draperaden.com

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 • Blacksburg, VA
 • Blacksburg, VA
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 • Virginia Beach, VA



SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS	
13/02/20	Initial Design

DESIGNED BY: SLF
 DRAWN BY: SLF
 CHECKED BY: ALM
 SCALE: 1" = 200'
 DATE: DECEMBER 30, 2020
 PROJECT NUMBER: 19080319-110302

C3 1

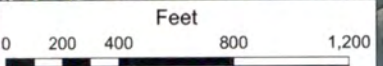


Install Temporary Gravel Construction Entrance/Exit Access. Access will require clearing of numerous trees and brush.

Install Temporary Gravel Construction Entrance/Exit Access. Access will require clearing of numerous trees and brush.

- Legend**
- Debris Location (Point, Subarea ID)
 - Debris Location (Reach, Subarea ID)
 - Pipe Jetting
 - Drainage Ditch
 - - - Stormwater Pipe
 - In-Place Vegetative Debris Removal
 - Point of Access
 - Install Temporary Gravel Construction Entrance/Exit Access
 - ▭ Trent River Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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 Fax: 919.876.4275
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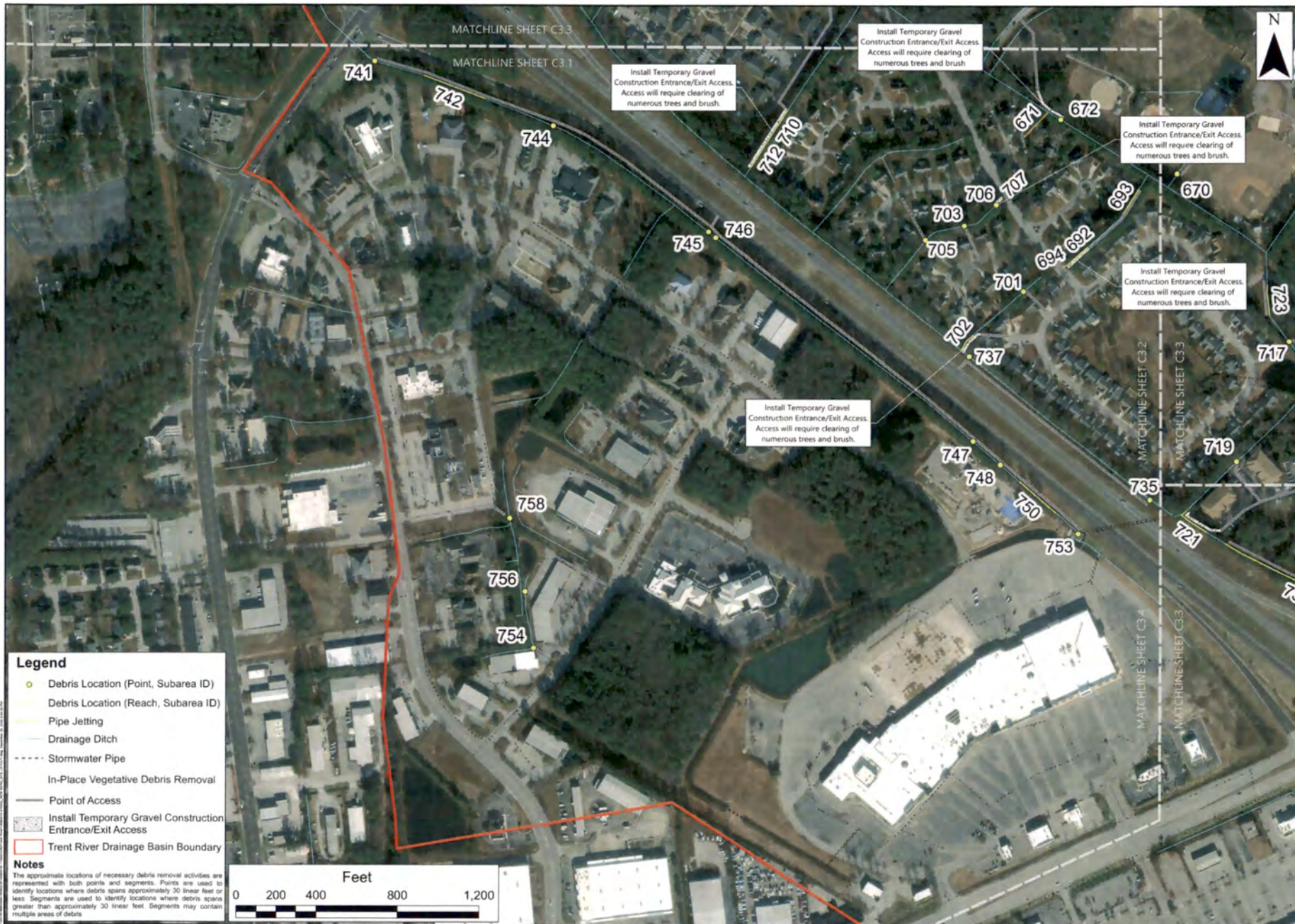
SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS	
12/30/20	Revised for debris and tree location

DESIGNED BY: SLF
 DRAWN BY: SLF
 CHECKED BY: AFM
 SCALE: 1" = 200'
 DATE: DECEMBER 30, 2020
 PROJECT NUMBER: 19080319-110302

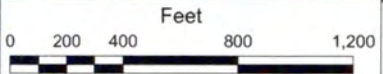
C3.2





- Legend**
- Debris Location (Point, Subarea ID)
 - Debris Location (Reach, Subarea ID)
 - Pipe Jetting
 - Drainage Ditch
 - Stormwater Pipe
 - In-Place Vegetative Debris Removal
 - Point of Access
 - Install Temporary Gravel Construction Entrance/Exit Access
 - Trent River Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented by both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



Draper Aden Associates
 Engineering • Surveying • Environmental Services
 191 Exchange Loop, Suite 300
 Raleigh, NC 27601
 919.275.1000 Fax 919.275.1001
 www.draperaden.com

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 • Fayetteville, NC
 • Blacksburg, VA
 • Charlottesville, VA
 • Virginia Beach, VA
 • Richmond, VA



SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY: SLF
 DRAWN BY: SLF
 CHECKED BY: APM
 SCALE: 1" = 200'
 DATE: DECEMBER 30, 2020
 PROJECT NUMBER: 19080319-110302

C3.3



Draper Aden Associates
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 1715 S. Salisbury Road, Suite 200
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 919.875.1000 Fax 919.875.1004
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SITE DETAIL
HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
TRENT RIVER DRAINAGE BASIN

- Legend**
- Debris Location (Point, Subarea ID)
 - Debris Location (Reach, Subarea ID)
 - Pipe Jetting
 - Drainage Ditch
 - Stormwater Pipe
 - In-Place Vegetative Debris Removal
 - Point of Access
 - Install Temporary Gravel Construction Entrance/Exit Access
 - Trent River Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented by both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



REVISIONS
 12/30/20

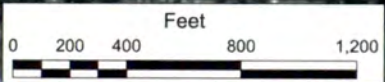
DESIGNED BY: SLF
 DRAWN BY: SLF
 CHECKED BY: APM
 SCALE: 1" = 200'
 DATE: DECEMBER 30, 2020
 PROJECT NUMBER: 19080319-110302

C3.4

Legend

- Debris Location (Point, Subarea ID)
- Debris Location (Reach, Subarea ID)
- Pipe Jetting
- Drainage Ditch
- - - Stormwater Pipe
- - - In-Place Vegetative Debris Removal
- Point of Access
- ▨ Install Temporary Gravel Construction Entrance/Exit Access
- ▭ Trent River Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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 174 Exchange South Drive, Suite 201
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 Phone: 540-538-1474
 Fax: 540-538-1475
 www.draperaden.com



SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY: SLF
 DRAWN BY: SLF
 CHECKED BY: ALPM
 SCALE: 1" = 200'
 DATE: DECEMBER 30, 2020
 PROJECT NUMBER: 19080319-110302

C3.5

Legend

- Debris Location (Point, Subarea ID)
- Debris Location (Reach, Subarea ID)
- Pipe Jetting
- Drainage Ditch
- - - Stormwater Pipe
- In-Place Vegetative Debris Removal
- Point of Access
- Install Temporary Gravel Construction Entrance/Exit Access
- ▭ Trent River Drainage Basin Boundary

Notes

The approximate locations of necessary debris removal activities are represented by both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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 114 Remondale Loop, Suite 200
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 Fax: 919.487.4475
 www.draperaden.com

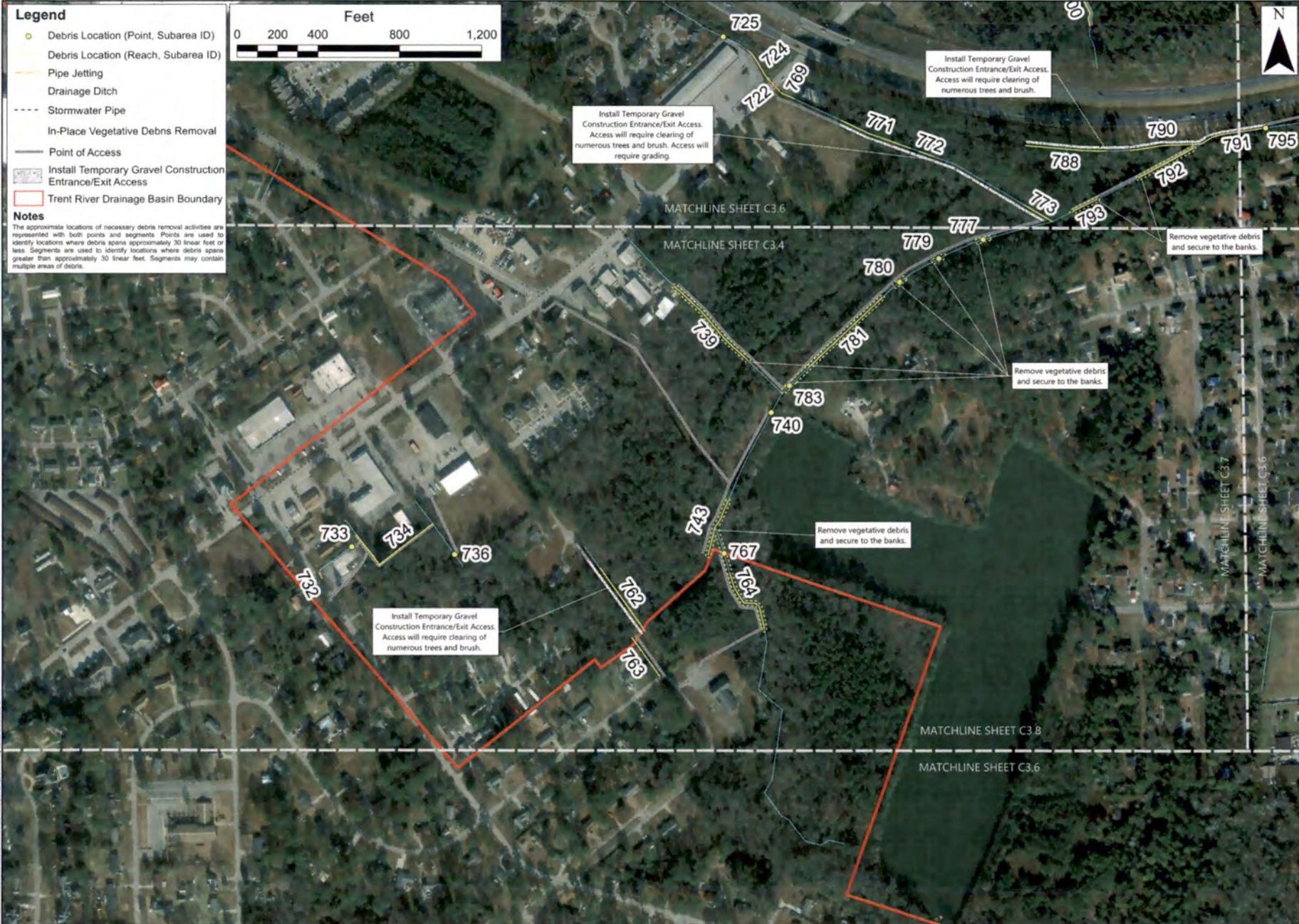
• Hampton Roads, VA
 • Roanoke, VA
 • Blacksburg, VA
 • Charlottesville, VA
 • Virginia Beach, VA

SITE DETAIL
HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
TRENT RIVER DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY: SLF
 DRAWN BY: SLF
 CHECKED BY: APM
 SCALE: 1" = 200'
 DATE: DECEMBER 30, 2020
 PROJECT NUMBER: 19080319-110302





Install Temporary Gravel Construction Entrance/Exit Access. Access will require clearing of numerous trees and brush.

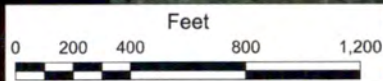
Install Temporary Gravel Construction Entrance/Exit Access. Access will require clearing of numerous trees and brush.



Aycock Avenue and Moore Avenue - Area 67 Exhibit

- Legend**
- Debris Location (Point, Subarea ID)
 - Debris Location (Reach, Subarea ID)
 - Pipe Jetting
 - Drainage Ditch
 - Stormwater Pipe
 - In-Place Vegetative Debris Removal
 - Point of Access
 - Install Temporary Gravel Construction Entrance/Exit Access
 - Trent River Drainage Basin Boundary

Notes
 The approximate locations of necessary debris removal activities are represented with both points and segments. Points are used to identify locations where debris spans approximately 30 linear feet or less. Segments are used to identify locations where debris spans greater than approximately 30 linear feet. Segments may contain multiple areas of debris.



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SITE DETAIL
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS	
12/03/20	PROJECT NUMBER: 19080319-110302
DESIGNED BY: SLF	DATE: DECEMBER 30, 2020
DRAWN BY: SLF	PROJECT NUMBER: 19080319-110302
CHECKED BY: APM	
SCALE: 1" = 200'	
C3.7	



MATCHLINE SHEET C3.8
MATCHLINE SHEET C3.6

MATCHLINE SHEET C3.8
MATCHLINE SHEET C3.7

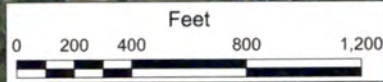
Remove vegetative debris
and secure to banks.

804

803

799

794



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SITE DETAIL
HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
TRENT RIVER DRAINAGE BASIN

- Legend**
- Debris Location (Point, Subarea ID)
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REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED BY: SLF
 CHECKED BY: SLF
 SCALE: 1" = 200'
 DATE: DECEMBER 30, 2020
 PROJECT NUMBER: 19080319-110302
C3.8

Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude
001	624	Remove sediment accumulated in bottom of ditch upstream of 18" RCP, grade to match invert.	Place 1 check dam at the midway point of the ditch. Place rock pipe inlet protection at inlet of the 18" RCP	35.11956736	-77.09873094	35.11960946	-77.09892661
	625	Remove sediment, vegetative (large woody) debris, and uprooted root balls accumulated in bottom of ditch, grade to match inverts.	Place rock pipe inlet protection at RCP inlet the ditch is flowing into, Place outlet stabilization structure at the 18" RCP flowing into the ditch. Place 2 check dams in the ditch. Space check dams so that the crest of the	35.11870683	-77.09731008	35.11945202	-77.09853625
002	635	Remove sediment accumulated in bottom of ditch upstream of 24" RCP, grade to match invert.	Place 1 check dam at the midway point of the ditch. Place rock pipe inlet protection at inlet of the 24" RCP	35.11810376	-77.09926386		
	636.1	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place an outlet stabilization structure at the lower end of the 24" RCP	35.11819790	-77.09902351	35.11841101	-77.09882782
	636.2	Remove 12" of sediment accumulated in approximately 90 LF of 24" RCP	n/a	35.11819790	-77.09902351	35.11841101	-77.09882782
003	632	Remove sediment and miscellaneous debris accumulated in bottom of ditch.	Place 1 check dam at the midway point of the ditch	35.11704212	-77.10021314		
	634	Remove 12" of sediment accumulated in 84 LF of 36" RCP	Place rock pipe inlet protection at 36" RCP inlet the ditch is flowing into, Place outlet stabilization structure at the 36" RCP flowing into the ditch	35.11710657	-77.10021068	35.11732815	-77.10015984
004	627	Remove miscellaneous debris (tires) accumulated in bottom of ditch.	n/a	35.11721802	-77.09661827		
	629	Remove miscellaneous debris (tires) accumulated in bottom of ditch	n/a	35.11665023	-77.09736968		
	631	Remove sediment, vegetative (large woody), construction, and miscellaneous debris accumulated in bottom of ditch.	n/a	35.11579770	-77.09766719	35.11637939	-77.09859743
005	638	Remove vegetative (large woody and miscellaneous) debris and miscellaneous debris accumulated in bottom of ditch.	n/a	35.11466671	-77.09560482		
	640	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.11477515	-77.09580799	35.11516056	-77.09652179
006	649.1	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place 1 check dam at the midway point of the ditch. Place outlet stabilization structure at the 24" RCP flowing into the ditch	35.11843416	-77.09136826	35.11839645	-77.09130852
	649.2	Remove sediment accumulated in 30 LF of assumed 24" RCP	Place rock pipe inlet protection at inlet of the 24" RCP culvert	35.11843416	-77.09136826	35.11839645	-77.09130852
	650.1	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place 1 check dam at the midway point of the ditch. Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.1184028	-77.09122386	35.11837003	-77.09125121
	650.2	Remove 6" of sediment accumulated in 12 LF of 15" RCP	Place rock pipe inlet protection at inlet of the 15" RCP culvert	35.1184028	-77.09122386	35.11837003	-77.09125121
	641	Remove sediment and vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.11707233	-77.09188819		
007	642	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.1170119	-77.09168496		
	643	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in	Place 1 check dam immediately downstream of the debris	35.1176771	-77.09106362		
	644	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch	Place 1 check dam immediately downstream of the debris	35.11803066	-77.09074531		
	645	Remove mattress.	n/a	35.11808301	-77.09069459		
	646	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.11834282	-77.09045279		
008	652	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.1142878	-77.09427727	35.11468931	-77.0939106
009	651	Remove sediment accumulated in bottom of ditch	Place 1 check dam at the midway point of the ditch	35.11374763	-77.09411712		
010	656	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch, grade to match invert	Place outlet stabilization structure at the culvert flowing into the ditch	35.11282483	-77.09242731		
011	713	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.1132813	-77.09375347		
	714	Remove construction debris accumulated in bottom of ditch.	n/a	35.11225756	-77.09458568		
012	710	Remove sediment and vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch	Place 1 check dam immediately downstream of the debris	35.1108428	-77.09227232	35.11049419	-77.09254506
	712	Remove vegetative (large woody and miscellaneous) debris and miscellaneous debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.11049419	-77.09254506	35.11021398	-77.09276429
013	671	Remove 6" of sediment and vegetative (miscellaneous) debris accumulated in 133 LF of 18" RCP	Place rock pipe inlet protection at 18" RCP inlet the ditch is flowing into, Place outlet stabilization structure at the 18" RCP flowing into the ditch	35.11082317	-77.08876837	35.11055609	-77.0890757
	672	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.11074886	-77.08858502		
014	706	Remove sediment accumulated in bottom of ditch upstream of 24" RCP culvert, grade to match invert.	Place rock pipe inlet protection at 24" RCP inlet the ditch is flowing into	35.10979715	-77.08946032		
	707	Remove 6" of sediment accumulated in 16 LF of 24" RCP	Place outlet stabilization structure at the 24" RCP flowing into the ditch	35.10983764	-77.08940904	35.10986376	-77.08937284
015	703	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10956283	-77.0898916		
	705	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.10940321	-77.09041436		
016	658	Remove construction debris accumulated in bottom of ditch.	n/a	35.11214698	-77.08534467		
	659	Remove sediment, miscellaneous vegetative debris, and riprap accumulated in bottom of ditch, grade to match invert.	n/a	35.11276369	-77.08409305		
017	661	Remove sediment and vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch along reach.	Place 1 check dam immediately downstream of the debris	35.11318754	-77.08352764	35.11369461	-77.08311862
	665	Remove vegetative (miscellaneous) debris accumulated in bottom of ditch.	n/a	35.11235647	-77.08420257		
	668	Remove 12" of sediment accumulated in 51 LF of 48" CMP	Place outlet stabilization structure at the 48" RCP flowing into the ditch	35.11142321	-77.08405748	35.11131112	-77.08414791
018	673	Remove sediment accumulated in bottom of ditch between 15" RCP culverts, grade to match inverts.	Place 1 check dam at the midway point of the ditch. Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.1108955	-77.08337386	35.11083856	-77.08326619
	674	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation. Place rock pipe inlet protection at 18" RCP inlet the ditch is flowing into	35.11128892	-77.08407243	35.11095847	-77.08352392
	675	Remove 6" of sediment accumulated in 33 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.11083856	-77.08326619	35.1107891	-77.0831771
	676	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation. Place rock pipe inlet protection at 18" RCP inlet the ditch is flowing into	35.1104806	-77.08261578	35.1107891	-77.0831771
	677	Remove 6" of sediment accumulated in 47 LF of 18" HDPE	Place outlet stabilization structure at the 18" RCP flowing into the ditch	35.1104806	-77.08261578	35.11040746	-77.08248414
	678	Remove sediment accumulated in bottom of ditch, grade to match invert	Place 1 check dam at the midway point of the ditch. Place rock pipe inlet protection at 18" HDPE inlet the ditch is flowing into	35.11040746	-77.08248414	35.11025097	-77.08221007
	679	Remove 12" of sediment accumulated in 48 LF of 15" HDPE/RCP	Place outlet stabilization structure at the 18" HDPE flowing into the ditch	35.11036092	-77.08213692	35.11025097	-77.08221007
	681	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch, grade to match inverts.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation. Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.11025097	-77.08221007	35.10952141	-77.08149261
	683	Remove 12" of sediment accumulated in 48 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.10952141	-77.08149261	35.1093933	-77.08144424
	685	Remove sediment accumulated in bottom of ditch, grade to match invert	Place 1 check dam at the midway point of the ditch. Place rock pipe inlet protection at inlet the ditch is flowing into	35.1093933	-77.08144424	35.10906636	-77.08132975



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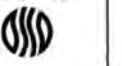


TRENT RIVER REMEDIATION & ESC PLAN
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

THE VISIONS
 10900
 35 1108955
 DATE: 08/11/2018
 TIME: 11:03:02
 19080319-110302
C4.1

Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude
019	667	Remove sediment and vegetative (miscellaneous) debris accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the HDPE flowing into the ditch. Place rock pipe inlet protection at inlet the ditch is flowing into. Place 1 check dam at the midway point of the ditch	35.11144407	-77.08405619	35.111788	-77.08465107
	686	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch, grade to match inverts.	Place outlet stabilization structure at the culvert flowing into the ditch. Place rock pipe inlet protection at RCP inlet the ditch is flowing into. Place 1 check dam at the midway point of the ditch	35.11034509	-77.08210913	35.11060808	-77.08256821
	687	Remove 6" of sediment accumulated in 42 LF of 36" RCP	Place outlet stabilization structure at the RCP culvert flowing into the ditch	35.11060808	-77.08256821	35.11066432	-77.08266832
	689	Remove sediment accumulated in bottom of ditch between 36" RCP culverts, grade to match inverts.	Place 1 check dam at the midway point of the ditch. Place rock pipe inlet protection at inlet the ditch is flowing into	35.11066432	-77.08266832	35.11136195	-77.08390527
020	669	Remove sediment and vegetative (miscellaneous) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.11011835	-77.08511188		
021	670	Remove sediment, miscellaneous vegetative debris, and riprap accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.11014494	-77.08701527		
022	692	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the RCP culvert flowing into the ditch. Place 1 check dam at the midway point of the ditch	35.10913196	-77.08849718	35.10932495	-77.08823032
	693	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10997173	-77.08753773	35.10969624	-77.08775408
	694	Remove 6" of sediment accumulated in 16 LF of 18" RCP	Place outlet stabilization structure at the RCP culvert flowing into the ditch	35.10913196	-77.08849718	35.10911118	-77.08855409
023	701	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.10883488	-77.08906909		
024	702	Remove sediment, vegetative (miscellaneous) debris, and riprap accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris. Place rock pipe inlet protection at RCP inlet the ditch is flowing into	35.10817874	-77.08993706	35.10834945	-77.08977474
025	717	Remove uprooted tree stump on slope of ditch.	Place 1 check dam immediately downstream of tree root	35.10827519	-77.08551241		
	723	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the HDPE culvert flowing into the ditch. Place 1 check dam at the midpoint of the ditch	35.10891075	-77.08580725	35.10856507	-77.08577262
	719	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.10694478	-77.08622556		
026	721	Remove vegetative (large woody and miscellaneous) debris and uprooted tree accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.10639837	-77.08690664	35.1061638	-77.08663271
	728	Remove sediment and vegetative (large woody) accumulated in bottom of ditch, grade to match invert.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35.10473964	-77.08325016	35.10519572	-77.08441178
	731	Remove sediment, riprap, and vegetative (miscellaneous) debris accumulated in bottom of ditch.	Place 3 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation. Place outlet stabilization structure at the RCP culvert flowing into the ditch	35.10519572	-77.08441178	35.10603769	-77.08638258
	741	Remove sediment and vegetative (large woody and miscellaneous) debris accumulated in	Place 1 check dam immediately downstream of the debris	35.11138906	-77.09783915		
027	742	Remove vegetative (large woody) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.1112259	-77.09716051	35.11097119	-77.09635346
	744	Remove vegetative (large woody) debris and miscellaneous debris (trees) accumulated in bottom of ditch.	n/a	35.11066764	-77.09543418		
	745	Remove vegetative (large woody) and miscellaneous debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.1094896	-77.093339		
	746	Remove sediment accumulated in bottom of ditch downstream of 18" CMP culvert, grade to match invert.	Place outlet stabilization structure at the 18" CMP culvert flowing into the ditch	35.10942498	-77.09324127		
	747	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch, grade	n/a	35.10717144	-77.08977801		
028	748	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.10690941	-77.08940604		
	750	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.10637994	-77.08865836	35.10672385	-77.08914261
	753	Remove sediment accumulated on concrete apron.	Place rock pipe inlet protection at culverts the concrete apron is flowing into	35.10614364	-77.08835843		
	738	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.11232112	-77.09536909		
	737	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.10810953	-77.08982592		
029	735	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.1065199	-77.0873939		
030	737	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.1063107	-77.0960188		
031	735	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.10486478	-77.09569016		
032	758	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.1063107	-77.0960188		
	754	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the HDPE culvert flowing into the ditch	35.10486478	-77.09569016		
	756	Remove sediment and uprooted tree accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.10549572	-77.09580783		
034	716	Remove sediment and uprooted trees accumulated in bottom of ditch, grade to match invert.	Place 3 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35.10129508	-77.08528334	35.10149044	-77.08347051
	718	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10138855	-77.08313348	35.10141719	-77.08336544
	720	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10153281	-77.08195706	35.10138855	-77.08313348
035	730	Remove vegetative (miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10132488	-77.08126979		
	727	Remove vegetative (miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10084148	-77.0805136		
036	729	Remove vegetative (miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10097271	-77.08070073		
	725	Remove vegetative (miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10026884	-77.07943183		
037	722	Remove 12" of sediment accumulated in 72 LF of dual 24" RCP culverts.	Place outlet stabilization structure at the 24" RCP flowing into the ditch	35.09979049	-77.07881527	35.09964683	-77.07865304
	724	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place rock pipe inlet protection at RCP inlet the ditch is flowing into. Place 1 check dam at the midpoint of the ditch	35.09979049	-77.07881527	35.1001085	-77.07908617
	769	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place 1 check dam at the midpoint of the ditch	35.09964683	-77.07865304	35.09958237	-77.07847821
039	704	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10225839	-77.08095505	35.10394996	-77.08271754
	639	Remove uprooted tree	n/a	35.10196944	-77.07805238		
040	647	Remove uprooted trees.	n/a	35.10204062	-77.07738579	35.10199439	-77.07781394
	648	Remove 6" of sediment accumulated in 88 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.10228541	-77.0760918	35.10225692	-77.07638911
	653	Remove sediment and vegetative (miscellaneous) debris accumulated in bottom of ditch, grade to match invert.	n/a	35.10229513	-77.07596613	35.10228541	-77.0760918
041	654	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.10261762	-77.07616148		
	680	Remove sediment and riprap accumulated in bottom of ditch between 15" RCP culverts, grade to match inverts.	Place rock pipe inlet protection at 15" RCP inlet the ditch is flowing into	35.10372591	-77.07406544	35.10364984	-77.07405658
	682	Remove 12" of sediment accumulated in 42 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.10372591	-77.07406544	35.10383991	-77.07408226
042	684	Remove sediment accumulated in bottom of ditch between 15" RCP culverts, grade to match inverts.	Place 1 check dam at the midpoint of the ditch	35.10389987	-77.07409327	35.10383991	-77.07408226

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TRENT RIVER REMEDIATION & ESC PLAN
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION
1	02/05/2019	SCF
2	02/05/2019	APMA
3	02/05/2019	LDMS
4	02/05/2019	MSI

19080319-110302
C4.2

Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude
043	666	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place 1 check dam at the midpoint of the ditch	35.10194261	-77.07580039	35.10179865	-77.07571255
	695	Remove vegetative (miscellaneous) debris and uprooted tree accumulated in bottom of ditch	n/a	35.10161037	-77.07549963		
	696	Remove uprooted trees.	n/a	35.10129633	-77.07513964		
	697	Remove vegetative (miscellaneous) debris and uprooted trees accumulated in bottom of ditch	n/a	35.10098945	-77.07482642		
	698	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.10093638	-77.07447479	35.10110422	-77.07367441
	699	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10110422	-77.07367441	35.10148218	-77.072928
044	700	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.10088934	-77.07469911	35.10039179	-77.07452323
	655	Remove vegetative (large woody) debris and uprooted tree accumulated in bottom of ditch	Place 1 check dam immediately downstream of the debris	35.10245476	-77.07385534	35.10252704	-77.07306972
045	657	Remove sediment accumulated in bottom of ditch	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35.10304198	-77.07225535	35.10264032	-77.07221408
046	660	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.10247484	-77.07207819	35.10152494	-77.07161354
047	739	Remove vegetative (large woody and miscellaneous) debris, construction debris, and miscellaneous debris accumulated in bottom of ditch. Secure vegetative debris to banks.	n/a	35.09750426	-77.08007943	35.09666649	-77.07910228
	771	Remove sediment, vegetative (large woody and miscellaneous) debris, uprooted trees, and miscellaneous debris accumulated in bottom of ditch.	Place outlet stabilization structure at the RCP flowing into the ditch, Place 1 check dam immediately downstream of the debris	35.09934297	-77.07785499	35.09903019	-77.07691809
	772	Remove sediment, vegetative (large woody and miscellaneous) debris, and miscellaneous debris	Place 1 check dam immediately downstream of the debris	35.09899648	-77.07680201	35.09894035	-77.07660877
	773	Remove sediment and uprooted trees accumulated in bottom of ditch	Place 1 check dam downstream of the debris	35.09840911	-77.07540622	35.09822136	-77.07502133
	777	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 2-2" diameter large woody debris, 1-4" diameter large woody debris, 1-12" diameter large woody debris, 1-4" diameter tree, and 1-6" diameter tree	n/a	35.09801804	-77.0759496		
048	779	Remove vegetative (large woody) debris and uprooted tree accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-6" diameter large woody debris, 1-8" diameter large woody debris, and 1-20" diameter tree.	n/a	35.09701054	-77.07654187		
	780	Remove vegetative (large woody and miscellaneous) debris and uprooted tree accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-12" diameter large woody debris, 1-24" diameter tree and approximately 1.5 cy of miscellaneous debris.	n/a	35.09755215	-77.0770665		
	781	Remove vegetative (large woody and miscellaneous) debris, uprooted trees, and construction debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris	n/a	35.09737956	-77.07730534	35.09660952	-77.07828414
	783	Remove uprooted tree. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-15" diameter tree	n/a	35.09640754	-77.07854113		
	740	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.09611083	-77.07878686		
049	743	Remove vegetative (large woody) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.09513014	-77.07937576	35.09453868	-77.07963752
	764	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.09371606	-77.07880119	35.09434637	-77.07934942
	767	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch	n/a	35.09455541	-77.07942246		
050	732.1	Remove 6" of sediment accumulated in 24 LF of 15" RCP	Place outlet stabilization structure at the 15" RCP flowing into the ditch	35.09427989	-77.08480246	35.09434051	-77.08483993
	732.2	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place rock pipe inlet protection at culvert the ditch is flowing into	35.09427989	-77.08480246	35.09434051	-77.08483993
051	733	Remove vegetative (miscellaneous) debris accumulated in bottom of ditch.	n/a	35.09462882	-77.08440276		
	734	Remove vegetative (large woody and miscellaneous) debris and uprooted tree accumulated in bottom of ditch.	n/a	35.09476091	-77.08434487	35.09488191	-77.08331881
052	736	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.09454151	-77.08302577		
053	792	Remove sediment, vegetative (large woody and miscellaneous) debris, and miscellaneous debris (tires) accumulated in bottom of ditch.	n/a	35.09903048	-77.07313028	35.09870688	-77.07386426
	793	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.09846545	-77.07442347	35.098331	-77.07475279
054	788	Remove sediment, vegetative (large woody) debris, and uprooted trees accumulated in bottom of ditch.	Place outlet stabilization structure at the RCP flowing into the ditch, Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35.09906255	-77.07537779	35.09900392	-77.07429638
	790	Remove sediment, vegetative (large woody and miscellaneous) debris, and uprooted trees accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris.	35.0990112	-77.07397798	35.09907781	-77.07302383
	791	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the RCP flowing into the ditch, Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation.	35.09907781	-77.07302383	35.09925551	-77.07217266
	795	Remove sediment, vegetative (large woody and miscellaneous) debris, uprooted tree, and miscellaneous debris (tires) accumulated in bottom of ditch	Place 1 check dam immediately downstream of the debris.	35.09925491	-77.07215658		
055	796	Remove sediment, vegetative (large woody and miscellaneous) debris and uprooted tree accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris.	35.0994409	-77.0711403		
	797	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.09947382	-77.07101692		
	798	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place outlet stabilization structure at the RCP flowing into the ditch, Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation	35.09957164	-77.07066822	35.09972134	-77.06986633
056	800	Remove vegetative (miscellaneous) debris, uprooted trees, and miscellaneous debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.09989984	-77.06888033		
	801	Remove debris dam, vegetative (large woody) debris, and miscellaneous debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.09988067	-77.06896972		



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TRENT RIVER REMEDIATION & ESC PLAN
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION
1	10/03/2019	ISSUED FOR B1
2	10/03/2019	ISSUED FOR B1
3	10/03/2019	ISSUED FOR A10A
4	10/03/2019	ISSUED FOR NONE

DATE: 10/03/2019
 TIME: 11:03:02
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Area ID	Subarea ID	Project Description	ESC Description	Start Latitude	Start Longitude	End Latitude	End Longitude
056	802	Remove 24" of sediment and miscellaneous vegetative debris accumulated in 285 LF of 30" RCP	Place outlet stabilization structure at the 30" RCP flowing into the ditch	35.09998017	-77.06856669	35.10072086	-77.06878465
057	749	Remove uprooted tree	n/a	35.10051569	-77.06576563		
058	751	Remove uprooted tree	n/a	35.10010589	-77.06122027		
059	691	Remove uprooted tree	n/a	35.10097271	-77.0675047		
	688	Remove uprooted tree	n/a	35.10178375	-77.0626676		
060	690	Remove sediment and riprap accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.10177778	-77.0623063		
	805	Remove vegetative (large woody) debris accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-2" diameter large woody debris, 1-4" diameter large woody debris, 1-6" diameter large woody debris, 1-8" diameter large woody debris.	n/a	35.1001361	-77.06708189		
061	806	Remove vegetative (large woody and miscellaneous) debris, and miscellaneous debris (tires) accumulated in bottom of ditch. Secure vegetative debris to the bank. Vegetative debris	n/a	35.1000643	-77.06646101	35.09996793	-77.06581554
	807	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 2-6" diameter large woody debris, 1-8" diameter large woody debris, 2-12" diameter large woody debris, 1-6" diameter tree, 1-8" diameter tree, 1-10" diameter tree, and approximately 1 cy of miscellaneous vegetative debris.	n/a	35.09996793	-77.06581554	35.09991652	-77.06547314
062	752	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.09973871	-77.06145774	35.09984885	-77.06483076
063	760	Remove sediment and vegetative (large woody) debris accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.09883811	-77.06546403	35.09974071	-77.06543477
	759	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.09884175	-77.06310587		
064	761	Remove vegetative (large woody and miscellaneous) debris accumulated in bottom of ditch.	n/a	35.09850773	-77.06551243	35.09808444	-77.06603385
	765	Remove uprooted tree	n/a	35.09803559	-77.06613393		
065	766	Remove vegetative debris, miscellaneous debris, and uprooted trees accumulated in bottom of	n/a	35.09778032	-77.06665086	35.09798629	-77.06622408
066	768	Remove vegetative (large woody) debris accumulated in bottom of ditch.	n/a	35.09656007	-77.07027907		
	770	Remove 6" of sediment accumulated in 20 LF of 18" HDPE	Place outlet stabilization structure at the 18" HDPE flowing into the ditch	35.09490106	-77.07120321	35.09485918	-77.07127333
	774	Remove 6" of sediment accumulated in 20 LF of 18" HDPE	Place outlet stabilization structure at the 18" HDPE flowing into the ditch	35.09491244	-77.07096011	35.09491686	-77.07088975
067	775	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place rock pipe inlet protection at culvert the ditch is flowing into.	35.09491244	-77.07096011	35.09490106	-77.07120321
	776	Remove sediment accumulated in bottom of ditch, grade to match invert.	Place 1 check dam at the midpoint of the ditch, Place rock pipe inlet protection at the culvert the ditch is flowing into.	35.09489918	-77.07127333	35.09405254	-77.0713908
	778	Remove 6" of sediment accumulated in 60 LF of 24" RCP	Place outlet stabilization structure at the 24" RCP flowing into the ditch	35.09393329	-77.07152156	35.09405254	-77.0713908
068	782	Remove 6" of sediment accumulated in 42 LF of 18" RCP	Place outlet stabilization structure at the 18" RCP flowing into the ditch	35.09417991	-77.06650082	35.09406685	-77.06650286
	784	Remove sediment accumulated in bottom of ditch, grade to match inverts.	Place 2 check dams in the ditch. Space check dams so that the crest of the downstream dam is at the same elevation. Place rock pipe inlet protection at culvert the ditch is flowing into.	35.09406685	-77.06650286	35.0932139	-77.06643662
	785	Remove 6" of sediment accumulated in 36 LF of 18" RCP	Place outlet stabilization structure at the 18" RCP flowing into the ditch	35.0932139	-77.06643662	35.09312583	-77.06641028
069	786	Remove 6" of sediment accumulated in 46 LF of 24" RCP	Place outlet stabilization structure at the 24" RCP flowing into the ditch	35.09452079	-77.06390447	35.09458386	-77.06403696
	787	Remove vegetative (miscellaneous) debris accumulated in bottom of ditch.	n/a	35.09458386	-77.06403696	35.09488578	-77.06489272
070	755	Remove uprooted tree	n/a	35.09852549	-77.05715877		
	757	Remove uprooted tree	n/a	35.09830733	-77.05580645		
071	789	Remove vegetative (large woody and miscellaneous) debris and uprooted tree accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.09431006	-77.06108698	35.09420998	-77.0603445
072	794	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	n/a	35.08687229	-77.06839049	35.08709794	-77.06718434
	799	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 2-4" diameter large woody debris, 2-6" diameter trees, 1-16" diameter tree and approximately 2.75 cy of miscellaneous vegetative debris.	n/a	35.08768721	-77.0720911	35.08823277	-77.07424178
073	803	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-3" diameter large woody debris, 1-10" diameter large woody debris, 1-12" diameter large woody, 6-2" diameter trees, 2-5" diameter trees, 1-18" tree, and approximately 1.5 cy of miscellaneous vegetative debris.	n/a	35.08855374	-77.07549123	35.08823277	-77.07424178
	804	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch. Secure vegetative debris to the banks. Vegetative debris observed, but is not limited to, 1-3" diameter large woody debris, 1-5" diameter large woody debris, 1-6" diameter large woody debris, 1-24" diameter large woody debris, 3-12" diameter trees and 1-18" diameter tree.	n/a	35.08855374	-77.07549123	35.08886148	-77.07667797
074	762	Remove vegetative (large woody and miscellaneous) debris and uprooted trees accumulated in bottom of ditch.	Place 1 check dam immediately downstream of the debris	35.094399	-77.0810823	35.0930967	-77.0804774
	763	Remove sediment accumulated in bottom of ditch between 24" RCP and 15" RCP, grade to match inverts.	Place outlet stabilization structure at the 24" RCP flowing into the ditch, Place rock pipe inlet protection at culvert the ditch is flowing into, Place 1 check dam at the midpoint of the ditch.	35.0936229	-77.0806541	35.0932021	-77.0802826



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REVISIONS

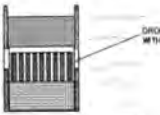
NO.	DATE	DESCRIPTION
1	11/11/2020	ISSUED FOR PERMIT

DESIGNED BY: JLT
 CHECKED BY: JLT
 APPROVED BY: JLT
 DATE: 11/11/2020
 SHEET NO. 19080110-110302

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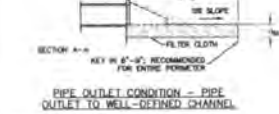
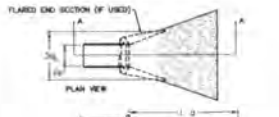
TRENT RIVER REMEDIATION & ESC PLAN
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

- CONSTRUCTION SPECIFICATIONS**
1. UNLESS OTHERWISE SPECIFIED, THE FILTER SHALL BE CONSTRUCTED AS FOLLOWS:
 2. DRIVE A RUST-FREE 1/2" DIA. 1" DEEP INTO THE EXPOSED SUBSTRATE TO THE DEPTH OF THE FILTER FABRIC. THE FILTER FABRIC SHALL BE SECURED TO THE SUBSTRATE BY THE USE OF A 1" DIA. RUST-FREE 1/2" DIA. 1" DEEP INTO THE EXPOSED SUBSTRATE TO THE DEPTH OF THE FILTER FABRIC.
 3. THE FILTER FABRIC SHALL BE SECURED TO THE SUBSTRATE BY THE USE OF A 1" DIA. RUST-FREE 1/2" DIA. 1" DEEP INTO THE EXPOSED SUBSTRATE TO THE DEPTH OF THE FILTER FABRIC.
 4. THE FILTER FABRIC SHALL BE SECURED TO THE SUBSTRATE BY THE USE OF A 1" DIA. RUST-FREE 1/2" DIA. 1" DEEP INTO THE EXPOSED SUBSTRATE TO THE DEPTH OF THE FILTER FABRIC.
 5. THE FILTER FABRIC SHALL BE SECURED TO THE SUBSTRATE BY THE USE OF A 1" DIA. RUST-FREE 1/2" DIA. 1" DEEP INTO THE EXPOSED SUBSTRATE TO THE DEPTH OF THE FILTER FABRIC.
 6. THE FILTER FABRIC SHALL BE SECURED TO THE SUBSTRATE BY THE USE OF A 1" DIA. RUST-FREE 1/2" DIA. 1" DEEP INTO THE EXPOSED SUBSTRATE TO THE DEPTH OF THE FILTER FABRIC.



INLET PROTECTION
NOT TO SCALE

PIPE OUTLET CONDITION — PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL



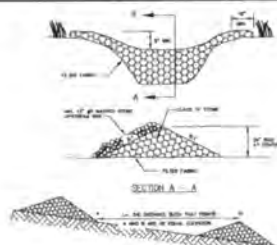
OUTLET STABILIZATION STRUCTURE
NOT TO SCALE

SPECIFICATIONS

1. ENSURE THAT THE SUBGRADE FOR THE FILTER AND RR-RAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RR-RAP THICKNESS. THE RR-RAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED DRAINING LIMITS SHOWN ON THE PLANS.
2. FILTER CLOTH, WHEN USED, MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RR-RAP AND PLACING ANOTHER PIECE OF FILTER CLOTH OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT IF THE DAMAGE IS EXTENSIVE. REPLACE THE ENTIRE FILTER CLOTH.
3. RR-RAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER.
4. THE MINIMUM THICKNESS OF THE RR-RAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
5. RR-RAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER-RESISTANT AND WELL GRADED.
6. CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RR-RAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.
7. ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON IMMEDIATELY AFTER CONSTRUCTION. STABILIZE ALL DISTURBED AREAS WITH VEGETATION.

MAINTENANCE

- INSPECT RR-RAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RR-RAP HAS TAKEN PLACE, OR IF STRUCTURES TO PREVENT FURTHER DAMAGE.



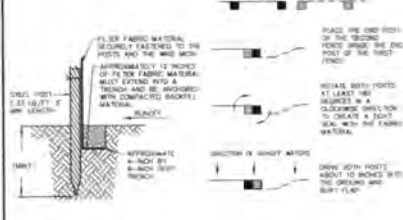
NOTES:
 (1) STONE SHOULD BE PLACED OVER THE CHANNEL BANKS TO KEEP WATER FROM ERODING BEHIND THE DAM.
 (2) STONE CHECK DAMS SHOULD BE SPACED BY A CHANNEL OR DAM CHECK DAMS WITH THE FOLLOWING DIMENSIONS:

- CONSTRUCTION PRECAUTIONS:**
1. PLACE STONE TO THE LINES AND UNDERNOSS SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
 2. KEEP THE CENTER STONE SECTION AT LEAST 6 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM APONS THE CHANNEL BANKS.
 3. EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CREEPING AROUND THE ENDS BY THE CHECK DAM.
 4. SET SPACING BETWEEN DAMS TO ASSURE THAT THE ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE ELEVATION OF THE UPPER DAM.
 5. PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
 6. MAKE SURE THAT THE CHANNEL BEHIND THE MOST UPSTREAM DAM IS STABLE.
 7. ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CURVED ENTRANCES BELOW THE CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

- MAINTENANCE:**
- INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1" OR GREATER) RAINFALL EVENT AND IMMEDIATELY CLEAN OUT SEDIMENT, STUMP LIMBS, OR OTHER DEBRIS THAT COULD CAUSE THE CHANNEL WATER LEVELS TO RISE ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS ANDER THE EDDS OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES SUCH AS INSTALLING A PROTECTIVE RR-RAP APRON IN THAT PORTION OF THE CHANNEL, REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO BRAN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CAUSING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

CHECK DAM
NOT TO SCALE

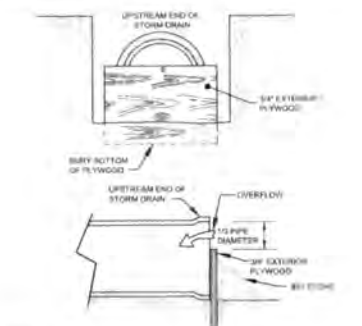
ATTACHING TWO SEDIMENT FENCES



SEDIMENT FENCE INSTALLATION USING THE BARRIAGE METHOD

- INSTEAD OF EXCAVATING A TRENCH, PLACING FABRIC AND THEN BACKFILLING THEREIN, SEDIMENT FENCES MAY BE INSTALLED USING SPECIALTY EQUIPMENT THAT RESULTS IN THE FABRIC BEING A CUT SLICE BY THE GROUND WITH A DISC.
- INSTALLATION PRECAUTIONS:**
1. THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ONE FOOT HIGHER THAN THE MOORE OF THE FENCE. CHECK WITH A LEVEL IF NECESSARY.
 2. INSTALL POSTS 3 FEET APART IN CURVED AREAS AND 6 FEET APART IN STRAIGHT APPLICATIONS.
 3. INSTALL POSTS 3 FEET DEEP ON THE DOWNSTREAM SIDE OF THE Silt FENCE AND AS CLOSE AS POSSIBLE TO THE FABRIC. ENSURE POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
 4. INSTALL POSTS WITH THE SPACES PACKED AWAY FROM THE Silt FABRIC.
 5. ATTACH THE FABRIC TO EACH POST WITH THREE 100 LBS. ALL SPACES WITHIN THE TOP 6 INCHES OF THE FABRIC. ATTACH EACH END CONSECUTIVELY THROUGHOUT THE FABRIC WITH EACH PUNCTURE AT LEAST 1/2 INCH VERTICALLY APART. ALSO EACH END SHOULD BE POSITIONED TO HANG ON A POST HORIZONTALLY WHEN TIGHTENED TO PREVENT DRAGGING.
 6. UNLAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END PORTS AND SECURE WITH 3 NAILS.
 7. NO MORE THAN 36 INCHES OF 2 INCH FABRIC IS ALLOWED ABOVE GROUND LEVEL. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPLETION.
 8. CORRECTION IN WHATEVER MANNER FROM EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEAR TO THE Silt FABRIC WITH THE FRONT WHEELS OF THE TRACTOR, BULL DOZER, OR ROLLER EXERCISING AT LEAST 40 POUNDS PER SQUARE INCH. COMPACT THE UPSTREAM END FIRST AND THEN FINISH SIDE TWICE FOR A TOTAL OF 4 TIMES.
- MAINTENANCE:**
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL EVENT. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
 2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, OR OTHERWISE BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
 3. REMOVE SEDIMENT DEPOSITED AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
 4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SEDIMENT FENCE DETAIL
NOT TO SCALE



NOTE:
 ALL PARTIALLY COMPLETED SEDIMENT DRAIN, UP TO 3/4 PIPE SIZE, SHALL BE PROTECTED BY THE END OF EACH GAT IN ACCORDANCE WITH THESE DETAILS.

INSTALLATION PRECAUTIONS:

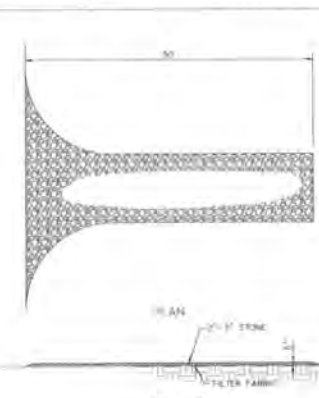
1. STORM DRAIN ALLEYS MUST BE PROTECTED BEFORE ALL PHASES OF CONSTRUCTION EVEN WHILE THE PIPE IS BEING Laid AND BEFORE THE ANCHORAGE IS IN PLACE.
2. THESE DEVICES SHALL BE INSTALLED ACROSS THE UPSTREAM PIPE OPENING AT THE END OF EACH WORK SECTION AND REMOVED AT THE BEGINNING OF THE NEXT SECTION. IF THE PIPE WILL NOT BE ENTERED FOR A PROLONGED TIME PERIOD, UNLESS REMOVED, THE PIPE SHOULD BE PROTECTED WITH APPROPRIATE STORAGE. SHALL BE INSTALLED TO REPLACE THE PLWOOD STRUCTURE.
3. THESE DEVICES ARE TO BE USED ON THE PIPE IN SMALL STORM DRAIN SYSTEMS THAT ARE NOT LOCATED IN HIGH STREAM WITH LARGE WATERSHEDS OR WATERCOURSES WHERE TRENCH USE COULD CAUSE UPSTREAM FLOODING.
4. THESE DEVICES ARE MADE OF PLYWOOD OF STEEL. TENSILE POINTS, HORIZONTAL GUTTS AND WASHED STAKE. PROTECTION FOR THE OTHER END OF STORM DRAIN SHALL BE INSTALLED ACCORDING TO THE STANDARD DETAILS AND THE APPROVED EROSION CONTROL PLAN.

MAINTENANCE:

1. INSPECT Silt PROTECTION AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A Silt PROTECTION COLLAPSE, TEAR, OR OTHERWISE BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE Silt PROTECTION DURING CLEANOUTS.

ROCK PIPE INLET PROTECTION
NOT TO SCALE

TEMPORARY CONSTRUCTION ENTRANCE/EXIT
SCALE 1" = 10'



CONSTRUCTION:

1. CLEAN THE SURFACE AND SET AREA OF ALL WEEDS, ROOTS, AND OTHER OBSTRUCTIONS MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLAN AND SECTION.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN AREAS SUBJECT TO BEAHEAD OR HIGH WATER TABLE.

MAINTENANCE:

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY PERIODICLY REQUIRE WITH 2-INCH STONE. IMMEDIATELY REMOVE ALL OBSTRUCTIVE MATERIALS SPILLED, WASHED, OR TRACKED ON TO PAVED SURFACES.

TEMPORARY CONSTRUCTION ENTRANCE/EXIT
SCALE 1" = 10'



Draper Aden Associates
 Engineering • Surveying • Environmental Services
 11440 Highway 60, Suite 200, Raleigh, NC 27603
 Phone: 919.979.2474 Fax: 919.979.2475
 www.draperaden.com
 • Hendersonville, VA
 • Fayetteville, NC
 • Charlotte, VA
 • Chesapeake, VA
 • Roanoke, VA
 • Raleigh, VA

DETAILS
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS

NO.	DATE	DESCRIPTION
1	10/20/2018	ISSUED

19080319-110302
C5.0



Draper Aden Associates
 Engineering • Surveying • Environmental Services
 13480 Albemarle Road, Suite 200
 Charlottesville, VA 22904
 800-451-5000
 Fax: 434-973-4500
 www.draperenvironmental.com



DETAILS
 HURRICANE FLORENCE DEBRIS REMOVAL ACTIVITIES
 TRENT RIVER DRAINAGE BASIN

REVISIONS
1
DATE: 10/20/2018 BY: BMR
PROJECT NUMBER: 19080319-110302

C5.1



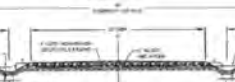
TYPICAL SECTION A
ACCESS ROAD, NO GRADING



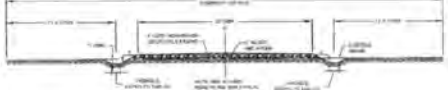
TYPICAL SECTION B
ACCESS ROAD, MINOR GRADING, LEFT-SIDE DITCH



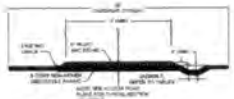
TYPICAL SECTION C
ACCESS ROAD, MINOR GRADING, RIGHT-SIDE DITCH



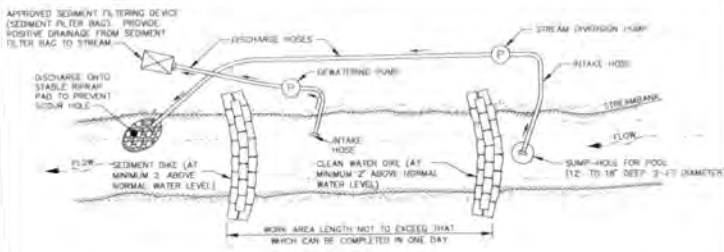
TYPICAL SECTION D
ACCESS ROAD, MINOR GRADING, BOTH SIDES DITCH



TYPICAL SECTION E
ACCESS ROAD, PULL-OFF AREAS



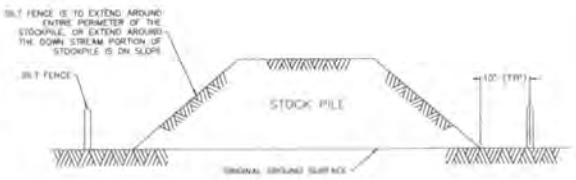
TYPICAL SECTION F
ACCESS ROAD, MINOR GRADING, RIGHT SIDE DITCH



- TEMPORARY PUMP AROUND SEQUENCE**
1. SET UP PUMP WITH SUCTION AND DISCHARGE HOSE
 2. INSTALL UP-STREAM SANDBAG DAM
 3. INSTALL DOWN-STREAM SANDBAG DAM
 4. THE PUMP MUST RUN CONTINUOUSLY WHILE WORKING IN THE STREAM
 5. STREAMBANKS MUST BE STABILIZED AT THE END OF EACH DAY

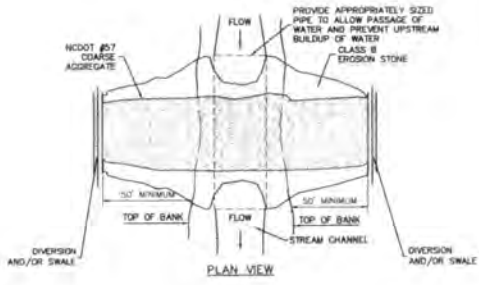
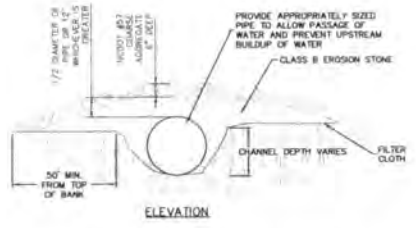
- NOTES**
1. SANDBAG DAMS SHALL BE SITUATED AT THE UPSTREAM AND DOWNSTREAM ENDS OF THE WORK AREA, AND STREAM FLOW SHALL BE PUMPED AROUND THE WORK AREA. THE PUMP SHOULD DISCHARGE ONTO A STABLE VELOCITY DISPATCH CONSTRUCTED OF RIPRAP OR SANDBAGS
 2. WATER FROM THE WORK AREA SHALL BE PUMPED TO A SEDIMENT FILTERING MEASURE SUCH AS A SEDIMENT BAG OR OTHER APPROVED DEVICE. THE MEASURE SHALL BE LOCATED SUCH THAT THE WATER GRABS BACK INTO THE CHANNEL, BELOW THE DOWNSTREAM SANDBAG DAM WITHOUT CAUSING FURTHER EROSION BETWEEN THE SEDIMENT FILTER BAG AND THE STREAMBANK.

TEMPORARY PUMP AROUND
NOT TO SCALE



- NOTES**
1. AN ON-SITE DRAINAGE SHALE SHALL BE LOCATED BETWEEN THE STOCKPILE AND OFF-SITE PROPERTY
 2. REFERENCE IS MADE TO THE SILT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS
 3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITH BURLAP MATTING OR SEEDED WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION
 4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 2". REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED
 5. SEDIMENT TRAPPED BY THE FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS
 6. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL THE STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY THE CITY

STOCK PILE
NOT TO SCALE



TEMPORARY STREAM CROSSING
NOT TO SCALE

AGENDA ITEM COVER SHEET

Agenda Item Title:

Consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern all contract documents and change orders within the contract amount for the Hurricane Florence Category D project within the Trent Village drainage basin.

Date of Meeting: 2/23/2021	Ward # if applicable: Ward 2
Department: Public Works	Person Submitting Item: Matt Montanye, Director of Public Works
Call for Public Hearing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of Public Hearing: N/A

Explanation of Item:	Over the past two years the City has been working with FEMA on a project to remove sediment and debris from 66 miles of drainage ditches and to make repairs to permanent structures damaged during Hurricane Florence. This project is to replace the damaged retaining wall located along the Trent Village neighborhood near Richmond Court.
Actions Needed by Board:	Adopt attached resolution
Backup Attached:	Memo, Resolution, Bid Tabulation, Advertisement for Bids, Project Plan

Is item time sensitive? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cost of Agenda Item: \$609,900.00
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes:



Public Works Department
P.O. Box 1129, 1004 S. Glenburnie Road
New Bern, N.C. 28563-1129
Phone: (252) 639-7501
Fax: (252) 636-1848

February 12, 2021

Memo to: Mayor and Board of Aldermen

From: Matt Montanye, Director of Public Works

Re: Consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern all contract documents and change orders within the contract amount for the Trent Village, Hurricane Florence Category D, permanent repairs.

Background Information:

In late 2018 following Hurricane Florence, the City of New Bern began working with FEMA on a project to remove sediment and debris from 66 miles of drainage ditches (Category A projects) and the repair of permanent work (Category D) within the City's ten drainage basins. The Category A projects was obligated by FEMA on January 27, 2020 with the Category D projects yet to be completely funded. Over the past two years City staff and contracted engineers have completed the design and bidding for all the Category A project and have completed the design and bidding for three of the Category D projects. Since being bid out the Category D project have been placed on hold pending the final funding obligation from FEMA.

Since hurricane Florence these permanent structures have remained damaged and, in some cases, additional damages have occurred. In the case of the Trent Village retaining wall project the conditions surround this project have continued to deteriorate to the point where the residential structures are in danger of being compromised as well. After reviewing this project with the project engineers as well as our FEMA consultants we have been advised that this project should move forward immediately as an emergency repair.

Therefore, the Public Works Department is requesting that the Board of Aldermen authorize the City Manager to execute a contract with Trader Construction Company Inc. for the Trent Village, Hurricane Florence Category D project.

On September 9, 2020 and October 20, 2020, the Trent Village Category D project was advertised for bids and on October 30, 2020, two bids were received and opened, with

the low bidder for this project being Trader Construction Company Inc. with a bid price of \$609,900.00. The Trent Village project consist of removing the damaged wood retaining wall and the installation of 117-feet of steel sheet pile retaining wall. The contract time for this project is 120 days.

Recommendation:

Draper Aden and Associates have vetted Trader Construction Company Inc. and found no issues or concerns. The Public Works Department is recommending and request the Board consider adopting a resolution authorizing the City Manager to execute on behalf of the City of New Bern, all contract documents and any change orders for the Trent Village, Hurricane Florence Category D permanent repairs.

If you have any questions concerning this matter, please feel free to contact me directly.

cc: George Chiles, Staff Engineer

RESOLUTION

THAT WHEREAS, the Trent Village, Hurricane Florence Category D Project was publicly advertised on September 9, 2020 and again on October 6, 2020 after only two bids were received. A pre-bid meeting for this project was held on September 28, 2020; and

WHEREAS, the following two qualified bids were received on October 30, 2020:

Trader Construction Company, Inc.	\$ 609,900.00
T.A. Loving Company	\$ 946,350.00

WHEREAS, the Director of Public Works of the City of New Bern recommends the City Manager be authorized to execute contract documents with the lowest bidder, Trader Construction Company Inc., for the Trent Village Category D, Hurricane Florence Project and any change orders within the budgeted amount.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN:

That the City Manager is hereby authorized to execute on behalf of the City of New Bern all contract documents with Trader Construction Company Inc., for the Trent Village Category D, Hurricane Florence Project, and any change orders within the budgeted amount.

ADOPTED THIS 23rd DAY OF FEBRUARY 2021.

DANA E. OUTLAW, MAYOR

BRENDA E. BLANCO, CITY CLERK

DETAILED BID TABULATION

PROJECT Trent Village Hurricane Florence Damage Repairs
 PROJECT #: 19080319-04
 BID DATE: October 30, 2020
 BID TIME: 10:00 AM
 LOCATION: City of New Bern Public Works Department / Microsoft Teams



Item	Description	Quantity	Units	Trader Construction		TA Loving							
				Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost	Unit Cost	Extended Cost
Base Bid													
1	Mobilization (3% Maximum)	1	EA	\$ 18,300.00	\$ 18,300.00	\$ 25,000.00	\$ 25,000.00						
2	Sediment and Erosion Control, Dewatering	1	EA	\$ 15,000.00	\$ 15,000.00	\$ 100,000.00	\$ 100,000.00						
3	Temporary Construction Entrance	1	EA	\$ 3,500.00	\$ 3,500.00	\$ 65,000.00	\$ 65,000.00						
4	Clearing	1	EA	\$ 15,000.00	\$ 15,000.00	\$ 80,500.00	\$ 80,500.00						
5	Strip and Replace Topsoil	1	EA	\$ 5,000.00	\$ 5,000.00	\$ 28,000.00	\$ 28,000.00						
6	Remove Existing Wooden Decks	2	EA	\$ 4,500.00	\$ 9,000.00	\$ 10,000.00	\$ 20,000.00						
7	Remove Existing Landscape Timber Border	70	LF	\$ 15.00	\$ 1,050.00	\$ 10.00	\$ 700.00						
8	Install Steel Sheet Pile Retaining Wall	117	LF	\$ 3,875.00	\$ 453,375.00	\$ 2,700.00	\$ 315,900.00						
9	Demolish Wooden Retaining Wall and Supports	125	LF	\$ 125.00	\$ 15,625.00	\$ 850.00	\$ 106,250.00						
10	Excess Soil Removal	40	CY	\$ 25.00	\$ 1,000.00	\$ 25.00	\$ 1,000.00						
11	NCDOT Class A Riprap	0.5	Tons	\$ 800.00	\$ 400.00	\$ 50.00	\$ 25.00						
12	NCDOT Class B Riprap	1	Tons	\$ 500.00	\$ 500.00	\$ 50.00	\$ 50.00						
13	4" Roof Drain	180	LF	\$ 40.00	\$ 7,200.00	\$ 10.00	\$ 1,800.00						
14	Site Grading	1	EA	\$ 5,000.00	\$ 5,000.00	\$ 110,000.00	\$ 110,000.00						
15	Replace Eroded Soils with Select Material	175	CY	\$ 28.00	\$ 4,900.00	\$ 25.00	\$ 4,375.00						
16	Replace Eroded Topsoil with Offsite Topsoil	50	CY	\$ 42.00	\$ 2,100.00	\$ 50.00	\$ 2,500.00						
17	Replace Landscape Timber Border	70	LF	\$ 50.00	\$ 3,500.00	\$ 50.00	\$ 3,500.00						
18	Install 6' Wooden Privacy Fence	120	LF	\$ 35.00	\$ 4,200.00	\$ 150.00	\$ 18,000.00						
19	Install Wooden Decks	2	EA	\$ 7,500.00	\$ 15,000.00	\$ 15,000.00	\$ 30,000.00						
20	Permanent Seeding/Sod	875	SY	\$ 6.00	\$ 5,250.00	\$ 10.00	\$ 8,750.00						
21	Asphalt/Concrete Paving Repair Allowance	50	SY	\$ 200.00	\$ 10,000.00	\$ 200.00	\$ 10,000.00						
22	Property Damage Allowance	-	-	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00						
				\$ 609,900.00		\$ 946,350.00							
				Cost Included on Bid Form	\$ 609,900.00		\$ 946,350.00						
				CONTRACT AMOUNT BASED ON UNIT BID ITEMS	\$ 609,900.00		\$ 946,350.00						

ADVERTISEMENT FOR BIDS

City of New Bern

New Bern, North Carolina

Trent Village Hurricane Florence Damage Repairs

General Notice

The City of New Bern (Owner) is requesting Bids for the construction of the following Project:

Trent Village Hurricane Florence Damage Repairs

DAA PN: 19080319-040302

Bids for the construction of the Project were received at the City of New Bern Public Works Department located at 1004 S. Glenburnie Road, until October 20, 2020 at 2:00 PM local time. At this time, only two bids were received in response to the solicitation. The bids were returned un-opened and the Project is being readvertised.

Bids for the construction of the Project will be received at the City of New Bern Public Works Department located at 1004 S. Glenburnie Road, until October 30, 2020 at 10:00 AM local time. At that time, the Bids received will be publicly opened and read.

In response to the current State of Emergency and "Stay at Home" order pursuant of Executive Order 121, dated March 27, 2020, the public bid opening shall be made available through online video conference. Access to the online video conference shall be made available to all plan holders at least 24 hours prior to opening of bids.

The Project includes the following Work:

This project generally involves the repair of previously identified damages within an open-air stormwater conveyance channel. Work is generally described as the installation of a new steel sheet pile retaining wall and the selective demolition of a wooden retaining wall. Work includes removal and replacement of wooden decks, erosion control, dewatering, clearing, protection of nearby homes, site seeding/sodding, and installation of a wooden privacy fence.

Bids are requested for the following Contract: **Trent Village Hurricane Florence Damage Repairs**

Obtaining the Bidding Documents

Information and Bidding Documents for the Project can be found at the following designated website:

www.daa.com

Bidding Documents may be downloaded from the designated website. Prospective Bidders are urged to register with the designated website as a plan holder, even if Bidding Documents are obtained from a plan room or source other than the designated website in either electronic or paper format. The designated website will be updated periodically with addenda, lists of registered plan holders, reports, and other information relevant to submitting a Bid for the Project. All official notifications, addenda, and other Bidding Documents will be offered only through the designated website. Neither Owner nor Engineer will be responsible for Bidding Documents, including addenda, if any, obtained from sources other than the designated website.

The Issuing Office for the Bidding Documents is:

Draper Aden Associates
114 Edinburgh South Drive, Suite 200
Cary, NC 27511

Due to the ongoing COVID-19 pandemic, bidders are strongly encouraged to register as a plan holder from the aforementioned website. Physical documents will not be available from the Issuing Office. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including addenda, if any, obtained from sources other than the Issuing Office.

The Owner is an Equal Opportunity Employer and encourages bidding by small, minority and female contractors and does not discriminate on the basis of handicapped status. Bids from qualified historically underutilized businesses (HUB's) are encouraged. Bidder must provide 10% of total contract cost to HUB's or demonstrate good faith effort. The Work will be subject to the prevailing wage rates and to the Equal Employment Opportunity requirements established by the U.S. Department of Labor. The project will be funded in whole/part using FEMA funds provided by the U.S. Department of Homeland Security. All Federal laws and regulations will apply to use of FEMA funds.

Digital copies of the Bidding Documents are available free of charge from the designated website. Physical copies of the Bidding Documents may be purchased from the Issuing Office. Cost does not include shipping charges. Upon Issuing Office's receipt of payment, printed Bidding Documents will be sent via the prospective Bidder's delivery service. The shipping charge amount will depend on the shipping method chosen. Bidding Documents are available for purchase in the following formats:

Format	Cost
Physical Bidding Documents (including Full-Size Drawings)	\$100

Instructions to Bidders.

For all further requirements regarding bid submittal, qualifications, procedures, and contract award, refer to the Instructions to Bidders that are included in the Bidding Documents.

This Advertisement is issued by:

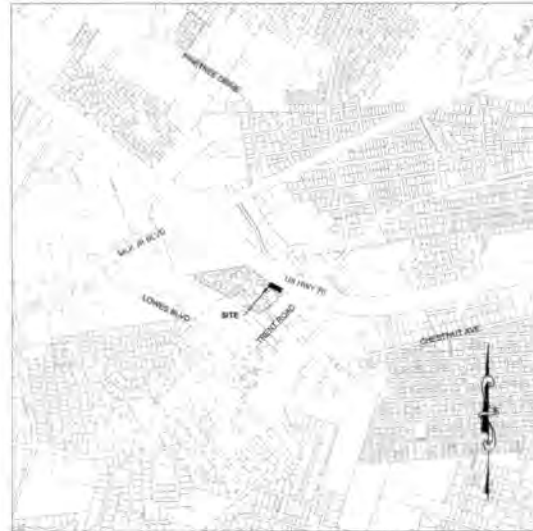
Owner: City of New Bern
By: Matthew L. Montanye
Title: Director of Public Works
Date: October 20, 2020

TRENT VILLAGE HURRICANE FLORENCE DAMAGE REPAIRS

AUGUST 31, 2020

RELEASE FOR BIDDING - NOT CONSTRUCTION

NAME OF PROJECT: TRENT VILLAGE HURRICANE FLORENCE DAMAGE REPAIRS
 ENGINEER: C. FRUG CLAYTON, JR. P.E.
 T.CLAYTON@DRA.COM
 DRAPER ADEN ASSOCIATES
 116 CONROBERT SOUTH DRIVE
 CARY, NC 27511
 PD: 8-043-1-005, 8-043-1-006, 8-043-1-007, 8-043-1-008,
 8-043-1-032
 DEED REFERENCE: DE 1772 PG 1047 DB 3516 PG 2026, DB 3464 PG 2180,
 DB 3512 PG 0617 DB 3572 PG 1495
 FLOODPLAIN: ZONE X, FIRM 5720547900K, YYY 08/19/2020
 WATERSHED CLASSIFICATION: NEUSE RIVER DRAINAGE BASIN
 SITE AREA: 0.16 ACRES



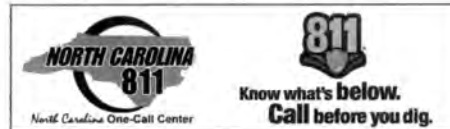
VICINITY MAP - NO SCALE

Sheet List Table	
Sheet Number	Sheet Title
C1.0	COVER
C2.0	NOTICE
C3.0	EXISTING CONDITIONS
C4.0	DEMOS & ESC PLAN
C5.0	SITE LAYOUT & GRADING PLAN
C6.0	ESC DETAILS
C6.1	SHEET PILE WALL DETAILS

DRAPER ADEN ASSOCIATES REVIEW

THESE PLANS HAVE BEEN SUBJECT TO TECHNICAL AND QUALITY REVIEWS BY:

NAME: LAURA AYERS, P.E. PROJECT DESIGNER	SIGNATURE: _____	DATE: 8/31/20
NAME: WATSEW C. BARNETTE, PG, CFM PROJECT MANAGER	SIGNATURE: _____	DATE: 8/31/20
NAME: C. FRUG CLAYTON, JR., P.E. QUALITY REVIEWER	SIGNATURE: _____	DATE: 8/31/20



Draper Aden Associates
 Engineering • Surveying • Environmental Services

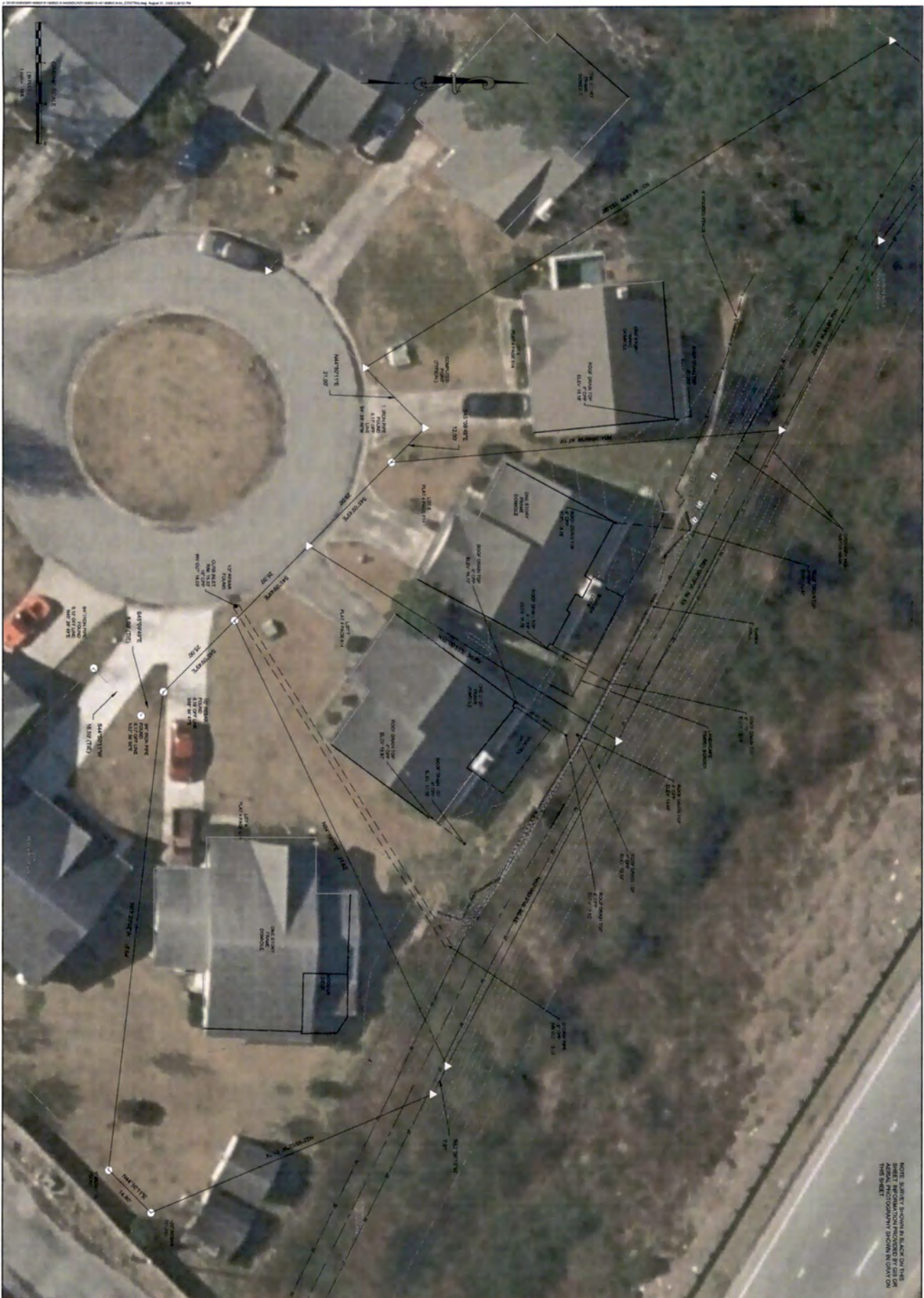
116 Conrobert South Drive, Suite 200
 Cary, NC 27511
 919-271-1414
 www.draperaden.com



COVER
 TRENT VILLAGE HURRICANE FLORENCE DAMAGE REPAIRS
 CITY OF NEW BERN, NORTH CAROLINA

REVISIONS	
NO. 010	ISSUED FOR BIDDING - ALL OTHERS FOR REVIEW
DESIGNED BY:	
CHECKED BY:	
SCALE:	NOT TO SCALE
DATE:	AUGUST 31, 2020
PROJECT NUMBER:	19080319-040302

C1.0



NOTE: SURVEY SHOWN IN BLACK ON THIS SHEET. RECONSTRUCTION PROPOSED BY GAS ON THIS SHEET. CONSTRUCTION SHOWN IN GRAY ON THIS SHEET.

PROJECT NUMBER	1909030319-040302
DATE	August 14, 2020
SCALE	1" = 20'
DRAWN BY	
CHECKED BY	
DESIGNED BY	
DATE	08/13/20
PROJECT NUMBER	1909030319-040302
DATE	August 14, 2020
SCALE	1" = 20'
DRAWN BY	
CHECKED BY	
DESIGNED BY	
DATE	08/13/20

EXISTING CONDITIONS
TRENT VILLAGE HURRICANE FLORENCE DAMAGE REPAIRS
 CITY OF NEW BERN, NORTH CAROLINA

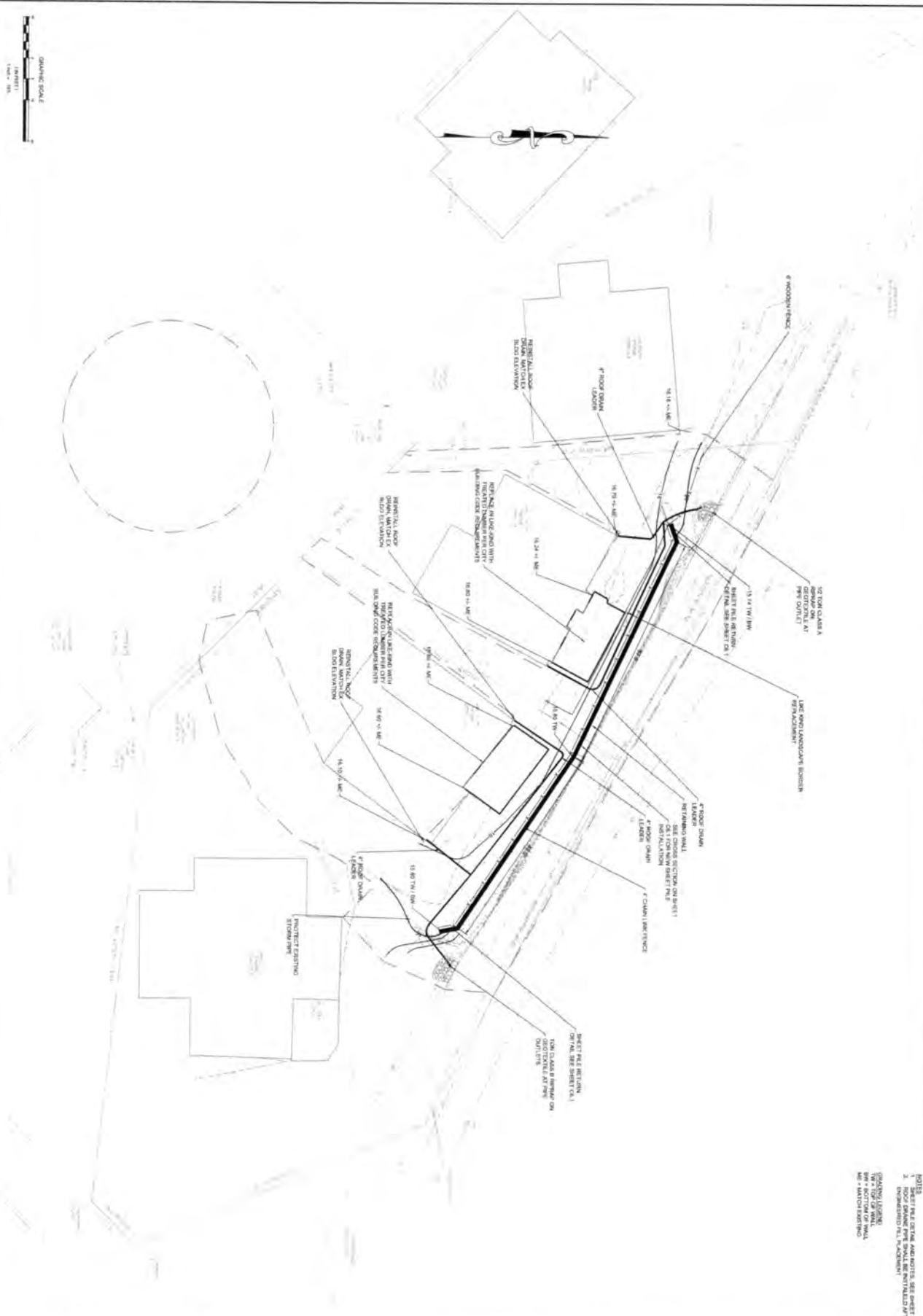
Draper Aden Associates
 Engineering • Surveying • Environmental Services

114 Edinburgh South Drive, Suite 200
 Cary, NC 27513
 919-875-1088 Fax: 919-875-1014
 www.draperaden.com
 NC Firm License # F-1428

- Richmond, VA
- Blacksburg, VA
- Charlottesville, VA
- Hampton Roads, VA
- Fayetteville, NC
- Northern Virginia
- Virginia Beach, VA



CS.0



NOTES:
 1. THIS PLAN IS FOR INFORMATION ONLY AND DOES NOT CONSTITUTE A CONTRACT.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EROSION CONTROL MEASURES.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY TRAFFIC CONTROL MEASURES.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SAFETY MEASURES.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ENVIRONMENTAL MEASURES.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PUBLIC WORKS MEASURES.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LEGAL MEASURES.

C5.0 150600219-040302	
DATE: AUGUST 31, 2016 PROJECT NUMBER: 150600219-040302	REVISIONS 03/16 04/16

SITE LAYOUT & GRADING PLAN
 TRENT VILLAGE HURRICANE FLORENCE DAMAGE REPAIRS
 CITY OF NEW BERN, NORTH CAROLINA

Draper Aden Associates
 Engineering • Surviving • Environmental Services

114 Edinboro South Blvd, Suite 201
 City, NC 27511
 919.475.1800 Fax 919.475.1874
 www.daa.com
 NC Reg. License #1-1428

• Raleigh, VA
 • Blacksburg, VA
 • Charlottesville, VA

• Hampton Roads, VA
 • Fayetteville, NC
 • Northern Virginia
 • Virginia Beach, VA

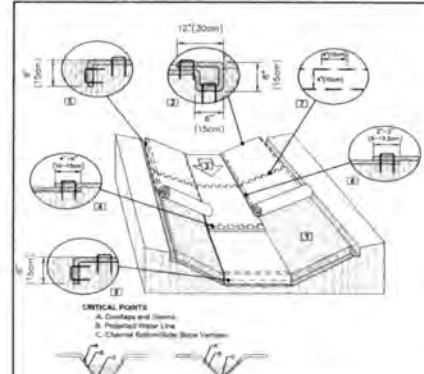




Draper Aden Associates
 Engineering • Surveying • Environmental Services
 1300 Commonwealth Blvd., Suite 300, Blacksburg, VA
 429 West Main St., Blacksburg, VA
 1437 West Main St., Blacksburg, VA
 1400 S. State Street, Blacksburg, VA
 4100 S. State Street, Blacksburg, VA

ESC DETAILS
 TRENT VILLAGE HURRICANE FLORENCE DAMAGE REPAIRS
 CITY OF NEW BERN, NORTH CAROLINA

REVISIONS
 8/11/20
 APPROVED BY
 DESIGNED BY
 DATE: AUGUST 31, 2020
 PROJECT NUMBER: 19080319-040302
C6.0

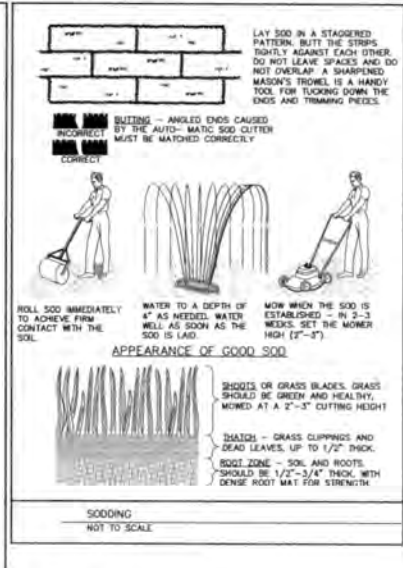
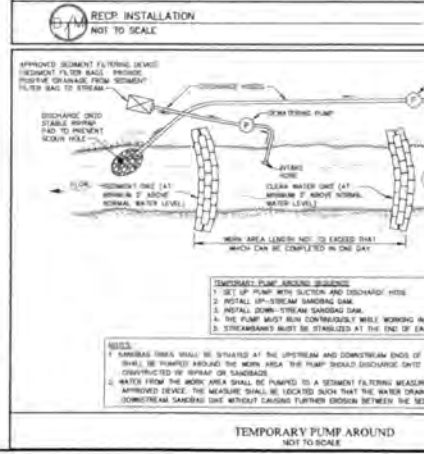


RECP INSTALLATION
 NOT TO SCALE

- PREPARE SUB-BEFORE INSTALLING ROLL-ON EROSION CONTROL PRODUCTS (RECPs) INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEgin AT THE TOP OF THE CHANNEL, BY ANCHORING THE RECPs IN A STEEPEN DRAP E-SLOPE MADE TRENCH WITH APPROXIMATELY 12" WIDE OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAPLES APPROXIMATELY 3" SPACING APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND TO THE REMAINING EXPOSURE PORTION OF RECPs BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPs UNDER COMPACTED SOIL WITH A ROW OF STAPLES/STAPLES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPs.
- ROLL CENTER RECP IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAPLES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
- PLACE CONSECUTIVE RECPs END-TO-END. SINGLE STAPLES WITH A 1/4" OVERLAP USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE RECPs.
- FULL LENGTH EDGE OF RECPs AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAPLES APPROXIMATELY 12" ON CENTER. APPLY SEED TO THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADVANCE RECPs MUST BE OVERLAPPED APPROXIMATELY 2-3" @ 12" ON CENTER. DIFFERENCES IN RECP HEIGHTS MUST BE STAPLED.
- IN HIGH FLOW CHANNEL APPLICATIONS A SAMPLE CHECK HOLE IS RECOMMENDED AT 30 TO 40 FEET OR 150YD INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
- THE TERMINAL END OF THE RECPs MUST BE ANCHORED WITH A ROW OF STAPLES/STAPLES APPROXIMATELY 12" ON CENTER. APPLY SEED TO THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

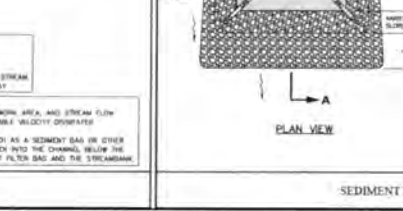
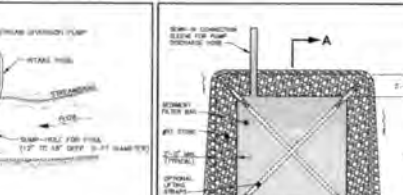
MAINTENANCE

- INSPECT ROLL-ON EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH RAINFALL EVENT TO BEHIND OR GREATER THAN 1" INFECTION. REPAIR IMMEDIATELY.
- GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED AND EROSION MUST NOT OCCUR BEHIND THE RECP.
- ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND BRANDED.
- IF EROSION OCCURS DUE TO POORLY CONTROLLED DAMAGE THE PROBLEM SHALL BE TREATED AND THE EROSION AREA PROTECTED.
- REMOVE AND BRUSH THE RECP AS AN OBSTACLE UNLESS OTHERWISE ESTABLISHED.



CONSTRUCTION

- CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRIC.
- INSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE. (HIGH FENCES MAY IMPOUND WATERS OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)
- CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH A 3/4" DIA. MINIMUM OVERLAP TO THE NEXT POST.
- SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POST. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE SUPPORT/ANCHOR THE FABRIC ON THE UPSLOPE SIDE OF THE POST POST WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.
- WHEN A WIRE MESH SUPPORT IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.
- EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.
- EXCAVATE & TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER (FIGURE B.22A).
- PLACE 12 INCHES OF FILL ALONG THE BOTTOM AND SIDE OF THE TRENCH.
- BACKFILL THE TRENCH WITH COMPACTED SOIL PLACED OVER THE FILTER FABRIC THROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SOIL FENCE PERFORMANCE.
- DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

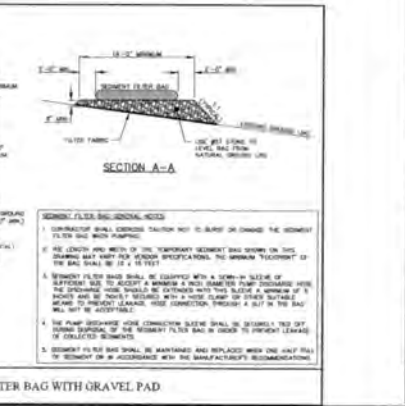


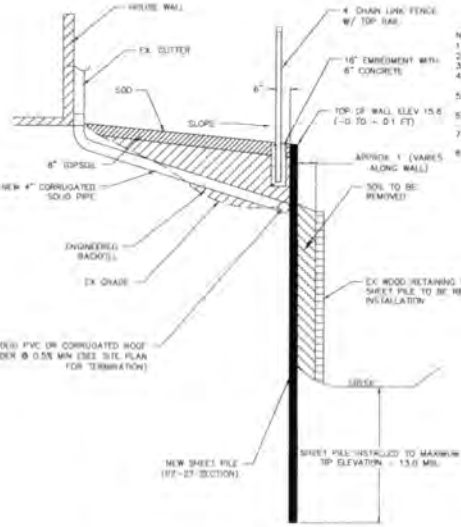
MATERIALS

- USE A SYNTHETIC FILTER FABRIC OF AT LEAST 8 MIL BY WEIGHT OF POLYPROPYLENE OR POLYESTER WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 8841 WHICH IS SHOWN IN PART ON TABLE B.22B SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 100 °F.
- INSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.5 LB/ANALIN FT STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.
- FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, WIRE MESH MUST HAVE A MINIMUM 1/4 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.

CONSTRUCTION

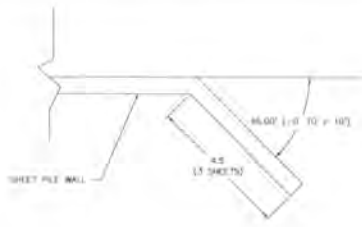
- CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRIC.
- INSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE. (HIGH FENCES MAY IMPOUND WATERS OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)
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- SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POST. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE SUPPORT/ANCHOR THE FABRIC ON THE UPSLOPE SIDE OF THE POST POST WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.
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- PLACE 12 INCHES OF FILL ALONG THE BOTTOM AND SIDE OF THE TRENCH.
- BACKFILL THE TRENCH WITH COMPACTED SOIL PLACED OVER THE FILTER FABRIC THROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SOIL FENCE PERFORMANCE.
- DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.





- NOTES:
1. TOP ELEVATION OF WALL -15.8 (-0 FT TO 0.1 FT) MIN
 2. BOTTOM ELEVATION OF WALL -13.0 (+/- 0.2 FT) MIN
 3. VIBRATORY HAMMER ONLY FOR PILE INSTALLATION
 4. SHEET PILE SHALL BE A #2 Z7 SECTION (ASTM A572 OR S10)
 5. SHEET PILE SHALL BE INTERLOCKED AT SHEET PILE RETURN
 6. SHEET PILE SHALL HAVE CORROSION PROTECTION PER SECTION 31 14 18 -METAL SHEET PILING
 7. ROOF DRAIN PIPE SHALL BE INSTALLED AFTER ENGINEERED PILING PLACEMENT
 8. REMOVE EX WOOD RETAINING WALL LEVEL WITH CHECK SED

TYPICAL SHEET PILE CROSS-SECTION
NOT TO SCALE



SHEET PILE RETURN DETAIL
NOT TO SCALE



Draper Aden Associates
 Engineering • Surveying • Environmental Services
 1133 Brantwood Road, Suite 200
 Raleigh, NC 27612
 Phone: 919.781.6424
 Fax: 919.781.1100



- Winston-Salem, NC
- Fayetteville, NC
- Northern Virginia
- Charlottesville, VA
- Virginia Beach, VA

SHEET PILE WALL DETAILS
TRENT VILLAGE HURRICANE FLORENCE DAMAGE REPAIRS
 CITY OF NEW BERN, NORTH CAROLINA

REVISIONS

DRAWN BY:
 CHECKED BY:
 SCALE:
 DATE: AUGUST 31, 2020
 PROJECT NUMBER:
 10060319-040302

C6.1

AGENDA ITEM COVER SHEET

Agenda Item Title:

Consider Adopting a Resolution for Street Lighting Request for Waters Street.

Date of Meeting: February 23, 2021	Ward # if applicable: 2
Department: Public Utilities	Person Submitting Item: Charles Bauschard
Call for Public Hearing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of Public Hearing: N/A

Explanation of Item:	Customer has requested street lights on Waters Street
Actions Needed by Board:	Approval of Request
Backup Attached:	Memo, Resolution, Street Lighting Request Form, Cost Analysis and location map

Is item time sensitive? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cost of Agenda Item: Electric \$1166.67 Public Works \$16.88/mo
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes: N/A



NEW BERN
CITY OF NEW BERN

300 Pollock Street, P.O. Box 1129
New Bern, NC 28563-1129
(252) 636-4000

Aldermen

Sabrina Bengel
Jameesha Harris
Robert V. Aster
Johnnie Ray Kinsey
Barbara J. Best
Jeffrey T. Odham

Dana E. Outlaw
Mayor
Mark A. Stephens
City Manager
Brenda E. Blanco
City Clerk
Mary Hogan
Director of Finance

TO: Mark Stephens, City Manager
FROM: Charles Bauschard, Director of Public Utilities
DATE: February 11, 2021
SUBJECT: Request for Additional Street Lighting from Resident

Background Information:

In August of 2010, the Board of Aldermen adopted a procedure for addressing requests for additional street lighting from residents. This procedure requires Electric Utilities to evaluate the area of the request. The existing lighting must also comply with or be brought up to the American National Standard Practice for Roadway Lighting.

The Department of Public Utilities has received a request from a resident for additional street lighting infrastructures in the area of Waters Street. This area was evaluated, and it was determined that it does not meet the City's light standard. The recommendation and cost estimate is included.

Recommendation:

Upon completion of the staff's evaluation, I recommend the Board of Aldermen approve the resolution for the addition of a streetlights on Waters Street.

RESOLUTION

THAT WHEREAS, the City of New Bern has adopted the American National Standard Practice for Roadway Lighting as the design standard for new street lighting installations within the City of New Bern; and

WHEREAS, the standard outlines the level of lighting necessary for the safe interaction of pedestrians and vehicles along municipal roadways; and

THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF NEW BERN:

That the Mayor and the City Clerk be and they are hereby authorized and directed to accept the installation and costs to the Department of Public Utilities and Public Works for additional street lighting infrastructures in the area of Waters Street.

ADOPTED THIS 23rd DAY OF FEBRUARY 2021.

DANA E. OUTLAW, MAYOR

BRENDA E. BLANCO, CITY CLERK

Street Lighting Request Form

REQ #

Customer Name:

Customer Address:

Phone Number of Requestor:

Area of Request:

(Street address, intersection, general description, etc)

Pole # (if known):

Sent to Police Department Date:

Police Recommendations:

All items below this must be filled out by an Electric Department Engineer

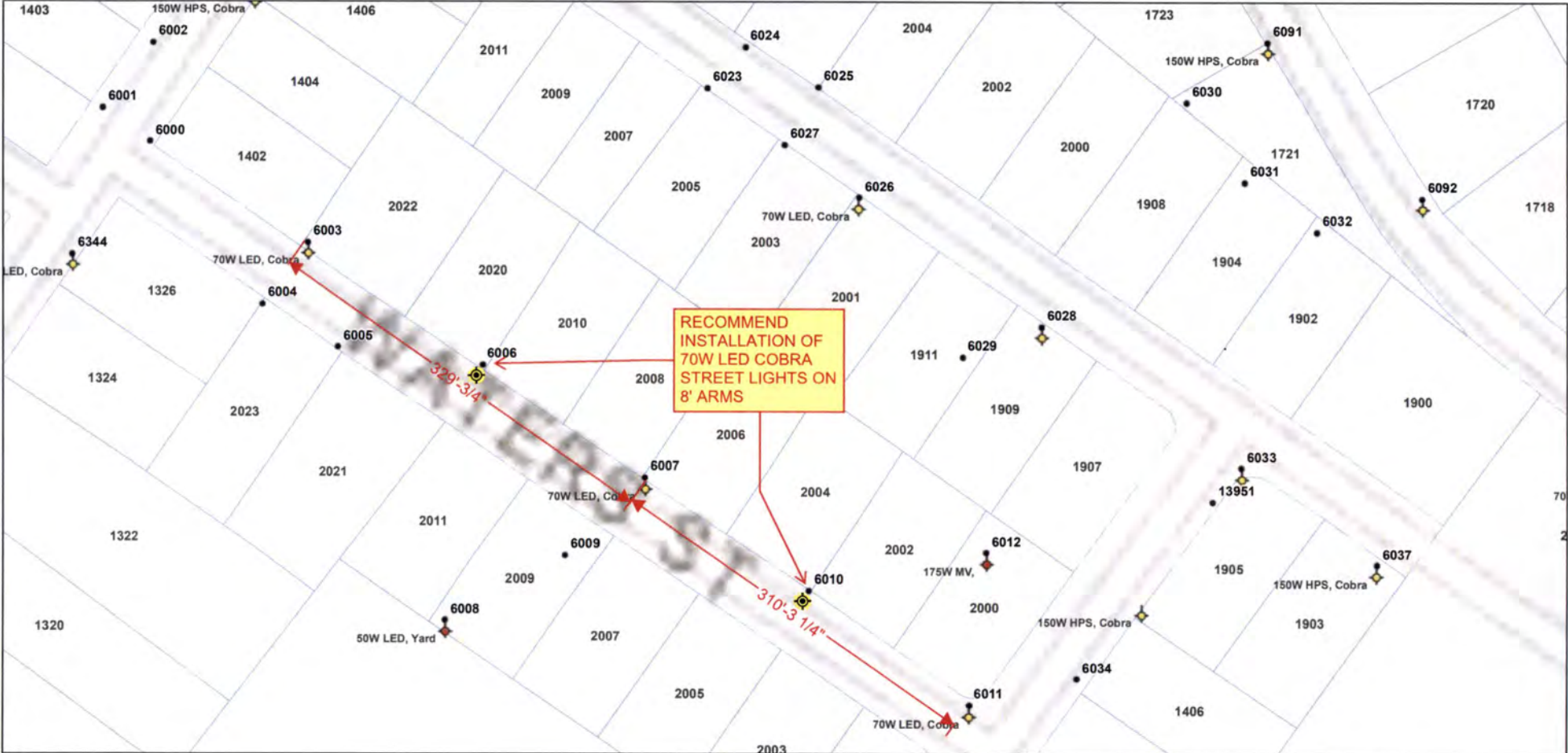
Electric Department Engineer:

Evaluations Results/Recommendation:

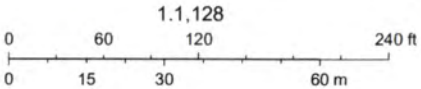
Estimated Cost to Electric Department:

Estimated Cost to Public Works:

SL REQ 112



2/10/2021, 9 29 58 AM



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

NEW BERN ELECTRIC

DATE:2/10/21

REQ #112

CUSTOMER:Ms. Sharon

LOCATION: Waters St

LABOR	QUANTITY	REG. HRS	OT HRS	RATE*	TOTALS
Crew Leader	1	3	0	\$ 52.00	\$ 156.00
2nd Class	1	3	0	\$ 40.74	\$ 122.22
				TOTAL	\$ 278.22

EQUIPMENT	QUANTITY	HOURS	RATE*	TOTALS
Bucket Truck/Service Truck 55'	1	3	\$ 74.72	\$ 224.16
			TOTAL	\$ 224.16

MATERIAL	QUANTITY	PRICE	TOTAL	
70W LED Fixture	2	\$166.43	\$ 332.86	
8' Arm	2	\$119.32	\$ 238.64	
#6 ACSR TPX	10	\$0.40	\$ 4.00	
Photocell	2	\$14.20	\$ 28.40	
			TOTAL	\$ 603.90

SUB TOTAL	\$ 1,106.28
10%TAX	\$ 60.39
TOTAL JOB	\$ 1,166.67

*Labor Rates are based on hourly rates + benefits.

*Equipment rates are based on FEMA's 2019 Schedule of Equipment Rates

AGENDA ITEM COVER SHEET



Agenda Item Title:

Discussion of Elections

Date of Meeting: 2/23/2021	Ward # if applicable: N/A
Department: Administration	Person Submitting Item: Mark A. Stephens, City Manager
Call for Public Hearing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date of Public Hearing:

Explanation of Item:	Discuss election process
Actions Needed by Board:	
Backup Attached:	Letter from Craven County Board of Elections regarding 2021 elections

Is item time sensitive? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Will there be advocates/opponents at the meeting? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Cost of Agenda Item:
If this requires an expenditure, has it been budgeted and are funds available and certified by the Finance Director? <input type="checkbox"/> Yes <input type="checkbox"/> No

Additional Notes:



Meloni Wray, Director
 Edward R. Dzioba, Democrat Secretary
 Brian J. Gatchel, Republican Member

Zeda B. Trice, Democrat Chair
 Ronnie D. Lovick, Democrat Member
 Matthew P. Schwob, Republican Member

February 11, 2021

Mr. Mark Stephens, City Manager
 City of New Bern
 Post Office Box 1129
 New Bern, North Carolina 28563

Dear Mr. Stephens

The estimated expenses for the October 5, 2021 and possible runoff for the November 2, 2021 elections are provided below

The actual cost for 2009, 2013, 2017 and the estimated cost for both 2021 elections (if needed) are:

Cost Description	2009 Oct/Nov	2013 Oct/Nov	2017 Oct	Estimate 2021 Oct/Nov
TOTAL EXPENSE	\$ 37,452.25	\$ 41,360.34	\$ 36,634.20	\$ 55,186
TOTAL ABSENTEE EXPENSE	\$ 4,380.00	\$ 14,472.94	\$ 9,141.72	\$ 18,194
Candidate Filing Fees	\$ (220.00)	\$ (305.00)	\$ (180.00)	
TOTAL PAID/DUE	\$ 41,612.25	\$ 55,528.28	\$ 36,454.20	\$ 73,380
Estimated even yr (1 election)		\$ 5,000	\$ 5,300	\$ 5,300

Breakdown:

The previous year's actual costs and the estimate of expense by the Craven County Board of Elections in the administration of the **City of New Bern Election on October 5, 2021** are as follows:

Cost Description	2009 October	2013 October	2017 OCTOBER	2021 Estimate October
One Stop Assistance	\$ 2,600.00	\$ 10,595.00	\$ 7,975.00	\$ 9,000.00
OS Fica/Medicare tax		\$ 810.52	\$ 634.01	\$ 688.50
Board Members Absentee Mtgs	\$ 840.00	\$ 840.00	\$ 350.00	\$ 1,400.00
Fica/Medicare tax		\$ 68.00	\$ 27.83	\$ 107.10
Absentee supplies, postage	\$ 150.00	\$ 266.00	\$ 154.88	\$ 650.00
Absentee Voting Totals:	\$ 3,590.00	\$ 12,579.52	\$ 9,141.72	\$ 11,846
Election Day officials	\$ 5,555.00	\$ 9,360.00	\$ 14,575.00	\$ 13,175.00
Recount officials (if Needed)	\$ 600.00		\$	\$
Board Members	\$ 795.00	\$ 650.00	\$ 340.00	\$ 1,550.00
Fica/Medicare tax		\$ 45.99	\$ 27.03	\$ 118.58
Part-Time Assistance	\$ 800.00	\$ 4,362.20	\$ 2,068.96	\$ 3,750.00
Fica/Medicare tax		\$ 340.84	\$ 164.68	\$ 286.88
Election Programming	\$ 2,780.70	\$ 3,004.68	\$ 4,320.77	\$ 8,500.00
Supplies/Postage/misc	\$ 3,882.60	\$ 2,474.54	\$ 1,156.99	\$ 1,200.00
Legal Advertising	\$ 1,001.14	\$ 699.53	\$ 934.99	\$ 1,200.00
Election Travel	\$ 93.83	\$ 127.70	\$ 152.94	\$ 300.00
Election Day Delivery/site rental	\$ 196.06	\$ 428.55	\$ 100.00	\$ 100.00
Ballots	\$ 5,792.63	\$ 5,036.25	\$ 3,420.44	\$ 4,500.00
sales tax		\$ 339.95	\$ 230.88	\$ 283.50
TOTAL EXPENSE	\$ 21,496.96	\$ 26,870.23	\$ 36,634.40	\$ 34,964
ABSENTEE EXPENSE	\$ 3,590.00	\$ 12,579.52	\$ 9,141.72	\$ 11,846
FILLING FEES	\$ -220.00	\$ -305.00	\$ -180.00	
OVERALL TOTAL	\$ 24,866.96	\$ 39,144.75	\$ 36,454.40	\$ 46,810

The previous year's actual costs and the estimate of expense by the Craven County Board of Elections in the administration of the **City of New Bern Runoff Election (if needed) on November 2, 2021** are as follows:

Cost Description	2009 November RUNOFF	2013 November RUNOFF	2021 estimated NOVEMBER RUNOFF
One Stop Assistance	\$ 650.00	\$ 1,653.85	\$ 4,500.00
OS Fica/Medicare tax		\$ 126.53	\$ 344.25
Board Members Absentee Mtgs	\$ 140.00	\$ 105.00	\$ 700.00
Fica/Medicare tax		\$ 8.04	\$ 53.55
Absentee supplies, etc		\$ -	\$ 750.00
Absentee Voting Totals:	\$ 790.00	\$ 1,893.42	\$ 6,348
Election Day officials	\$ 4,457.50	\$ 7,380.00	\$ 9,925.00
Recount officials (if Needed)	\$ 600.00		\$ -
Fica/Medicare tax			\$ -
Board Members	\$ 113.57	\$ 102.85	\$ 225.00
Fica/Medicare tax		\$ 7.87	\$ 17.21
Part-Time Assistance	\$ 337.50	\$ 370.83	\$ 425.00
Fica/Medicare tax		\$ 17.39	\$ 32.51
Election Programming	\$ 528.40	\$ 1,758.07	\$ 3,800.00
sales tax		\$ 5.09	\$ -
Supplies/Postage/misc	\$ 3,364.40	\$ 707.13	\$ 550.00
Legal Advertising	\$ 186.52	\$ 41.09	\$ 300.00
Election Travel	\$ 275.04	\$ 22.86	\$ 43.00
Election Day Delivery	\$ 292.36	\$ 61.42	\$ 100.00
Ballots	\$ 5,800.00	\$ 3,761.60	\$ 4,500.00
sales tax		\$ 253.91	\$ 303.75
TOTAL EXPENSE	\$ 15,955.26	\$ 14,460.11	\$ 20,222
ABSENTEE EXPENSE	\$ 790.00	\$ 1,893.42	\$ 6,348
OVERALL ESTIMATED TOTAL	\$ 16,745.29	\$ 16,383.53	\$ 26,570

The cost analysis enclosed also shows the actual charges for conducting the 2009, 2013, 2017 elections and the estimate for the 2021 elections. Currently, the City of New Bern operates on a nonpartisan election and runoff election method for the municipality. This method is largely the same as the nonpartisan plurality method, with one important distinction. If a winner in these elections does not receive a majority (50%+1) of the votes, the candidate who came in second place may request a runoff. In these runoff elections, all candidates are eliminated except the plurality winner and the runner-up. Those two then run head-to-head in the runoff, with the winner being given the seat. The election is held in October, and any runoff elections are held in November.

If the City of New Bern operated its elections under the nonpartisan plurality method (election in November only) the savings would have been approximately \$35,000 in 2013 and a savings of possibly \$45,000 for the 2021 elections. The only expenses would be for a November Election that has shared expenses with the other municipalities on the ballot.

Please take note that the City of New Bern allows absentee voting in your city elections and you do have the option to "opt-out" of this expense, by adopting a resolution. If you analyze the expenses, the City of New Bern could have saved approximately \$14,500 in 2013, \$9,150 in 2017 if the City of New Bern had "opted out" of absentee voting and possibly could save approximately \$18,194 of absentee expenses in 2021. Note: currently the only other municipality to allow absentee voting is the City of Havelock which if the City of New Bern has a runoff and absentee voting is allowed the absentee cost will be shared with the City of Havelock.

Another option for voting would be to go to even years where the only costs would be to program your races and any other municipality specific expenses like ballots or supplies which would be estimated to be \$5,000 or less with savings estimated to be \$50,000 or more. The reason for the lower estimated cost is because we have to do the other functions associated with an election in all Federal and State elections and cannot bill you for these costs. To go to an even-year election cycle, you would need to get your municipal attorney involved, a resolution would need to be made, your charter would need to be updated, and there would need to be a legislative bill.

passed for this to take place. If there are any resolutions adopted, the municipal agreement would need to be updated to reflect any changes if needed and signed

Filing Periods (see G.S. 163-291(2) and G.S. 163-294.2(c):

Because the 2021 municipal elections occur in the year following a federal decennial census, there is different filing periods for municipal offices this year

Contests for municipal offices in cities that do NOT elect any office by district The filing period for cities that do not elect any office by district begins at noon on the first Friday in July and ends at noon on the third Friday in July (Friday, July 2, 2021 until noon Friday, July 16, 2021).

(City of New Bern) Contests for municipal or district offices in cities that DO elect any office by district. The filing period for contests in cities that elect any office by district begins at noon on the fourth Monday in July and ends at noon on the second Friday in August (**Monday, July 26, 2021 until noon Friday, August 13, 2021**). The later filing period applies to all municipal contests in that jurisdiction, if any office is elected by electoral district or by residency district For example, even if the city's mayor is elected citywide, if the city council is elected by district, the statute applies to the filing period for the mayor contest as well as city council contests


2021 City of New Bern Municipal Elections Dates

- Tuesday, October 5, 2021
- Tuesday, November 2, 2021 (if runoff)

Please take note: Municipal redistricting must be completed by the third business day before the opening of the filing period (Wednesday, July 21, 2021). If the city or town determines that it will not be possible to adopt the redistricting changes by July 21, 2021, the municipality may adopt a resolution delaying the election. The election can be postponed until March 2022 If the city or town postpones the election, then the filing period for these offices will be held from noon Monday, December 6, 2021 through noon Friday, December 17, 2021

If you have any questions, please feel free to contact me, 252-636-6610 or mwray@cravencountync.gov.

Sincerely,


Meloni M. Wray, CNCED, CERA
Director of Elections

Enclosures

Cc Director of Finance, City Clerk; Mayor and Aldermen

CITY OF NEW BERN COST ANALYSIS

Cost Description	2017			
	2009 October	2013 October	OCTOBER	2021 October est
One Stop Assistance	\$ 2,600 00	\$ 10,595 00	\$ 7,975 00	\$ 9,000.00
OS Fica/Medicare tax		\$ 810 52	\$ 634 01	\$ 688.50
Board Members Absentee Mtgs	\$ 840 00	\$ 840 00	\$ 350 00	\$ 1,400.00
Fica/Medicare tax		\$ 68 00	\$ 27 83	\$ 107.10
Absentee supplies, postage	\$ 150 00	\$ 266 00	\$ 154 88	\$ 650 00
Absentee Voting Totals:	\$ 3,590 00	\$ 12,579 52	\$ 9,141 72	\$ 11,845.60
Election Day officials	\$ 5,555 00	\$ 9,360 00	\$ 14,575 00	\$ 13,175.00
Recount officials (if Needed)	\$ 600 00			
Fica/Medicare tax			\$ -	
Board Members	\$ 795 00	\$ 650 00	\$ 340 00	\$ 1,550.00
Fica/Medicare tax		\$ 45 99	\$ 27 03	\$ 118.58
Part-Time Assistance	\$ 800 00	\$ 4,362 20	\$ 2,068 96	\$ 3,750 00
Fica/Medicare tax		\$ 340 84	\$ 164 68	\$ 286 88
Election Programming	\$ 2,780 70	\$ 3,004 68	\$ 4,320 77	\$ 8,500 00
Supplies/Postage/misc	\$ 3,882 60	\$ 2,474 54	\$ 1,156 99	\$ 1,200.00
Legal Advertising	\$ 1,001 14	\$ 699 53	\$ 934 99	\$ 1,200.00
Election Travel	\$ 93 83	\$ 127 70	\$ 152 94	\$ 300.00
Election Day polling site rental/delivery	\$ 196 06	\$ 428 55	\$ 100 00	\$ 100 00
Ballots	\$ 5,792 63	\$ 5,036 25	\$ 3,420 44	\$ 4,500 00
sales tax		\$ 339 95	\$ 230 88	\$ 283 50
TOTAL EXPENSE	\$ 21,496 96	\$ 26,870 23	\$ 27,492.68	\$ 34,963.96
TOTAL ABSENTEE EXPENSE	\$ 3,590 00	\$ 12,579 52	\$ 9,141.72	\$ 11,845.60
	\$ 25,086.96	\$ 39,449 75	\$ 36,634 40	\$ 46,809.56
Candidate Filing Fees	\$ (220 00)	\$ (305 00)	\$ (180 00)	
TOTAL DUE	\$ 24,866 96	\$ 39,144 75	\$ 36,454 40	

Cost Description	2013 ACTUAL		2021 estimated NOVEMBER RUNOFF (with Mayor and 1 ward)
	2009 ACTUAL November RUNOFF	NOVEMBER RUNOFF	
One Stop Assistance	\$ 650 00	\$ 1,653 85	\$ 4,500.00
OS Fica/Medicare tax		\$ 126 53	\$ 344.25
Board Members Absentee Mtgs	\$ 140 00	\$ 105 00	\$ 700.00
Fica/Medicare tax		\$ 8 04	\$ 53.55
Ballots			
Absentee supplies, etc		\$ -	\$ 750.00
Absentee Voting Totals:	\$ 790 00	\$ 1,893 42	\$ 6,347.80
Election Day officials	\$ 4,457 50	\$ 7,380 00	\$ 9,925.00
Recount officials (if Needed)	\$ 600 00		
Fica/Medicare tax			
Board Members	\$ 113.57	\$ 102 85	\$ 225.00
Fica/Medicare tax		\$ 7 87	\$ 17.21
Part-Time Assistance	\$ 337 50	\$ 370 83	\$ 425.00
Fica/Medicare tax		\$ 17 39	\$ 32.51
Election Programming	\$ 528.40	\$ 1,758 07	\$ 3,800.00
sales tax		\$ 5 09	\$ -
Supplies/Postage/misc	\$ 3,364.40	\$ 707 13	\$ 550.00
Legal Advertising	\$ 186 52	\$ 41 09	\$ 300.00
Election Travel	\$ 275 04	\$ 22 86	\$ 43.00
Election Day polling site rental/delivery	\$ 292 36	\$ 61 42	\$ 100 00
Ballots	\$ 5,800 00	\$ 3,761 60	\$ 4,500.00
sales tax		\$ 253 91	\$ 303 75
TOTAL EXPENSE	\$ 15,955 29	\$ 14,490 11	\$ 20,221.47
TOTAL ABSENTEE EXPENSE	\$ 790 00	\$ 1,893.42	\$ 6,347.80
TOTAL DUE	\$ 16,745 29	\$ 16,383 53	\$ 26,569.27

Cost Description	2013 Oct/Nov		2017 Actual OCT	2021 est w/runoff
	2009 Oct/Nov Actual	Actual		
TOTAL EXPENSE	\$ 37,452 25	\$ 41,360 34	\$ 27,492 68	\$ 55,185 43
TOTAL ABSENTEE EXPENSE	\$ 4,380 00	\$ 14,472 94	\$ 9,141 72	\$ 18,193.40
Candidate Filing Fees	\$ (220 00)	\$ (305 00)	\$ (180 00)	
TOTAL DUE	\$ 41,612 25	\$ 55,528 28	\$ 36,454 40	\$ 73,378.83

Election	Registered Voters	Overall cost	total voted	cost per voter
October 2013 Absentee	21575	\$ 12,579 52	2788	\$ 4.51
October 2013 Overall	21575	\$ 39,144 75	5437	\$ 7 20
October 2017 Absentee	20629	\$ 9,141.72	1765	\$ 5 18
October 2017 Overall	20629	\$ 36,454 40	3769	\$ 9 67
November 2013 Absentee	21575	\$ 1,893 42	2395	\$ 0.79
November 2013 Overall	21575	\$ 16,383 53	7762	\$ 2 11

THE ABOVE COST ESTIMATE IS PREPARED TO THE BEST OF OUR KNOWLEDGE AT THE TIME CCBOE



NEW BERN
CITY OF NEW BERN

300 Pollock Street, P.O. Box 1129
New Bern, NC 28563-1129
(252) 636-4000

Aldermen

Sabrina Bengel
Jameesha Harris
Robert V. Aster
Johnnie Ray Kinsey
Barbara J. Best
Jeffrey T. Odham

Dana E. Outlaw
Mayor
Mark A. Stephens
City Manager
Brenda E. Blanco
City Clerk
Mary M. Hogan
Director of Finance

Memorandum

TO: Mayor Dana Outlaw
FROM: Brenda Blanco, City Clerk *BEB*
DATE: October 22, 2020
SUBJECT: Appointment to Appearance Commission

On June 11, 2019, you appointed Martha "Molly" Ingram to the Appearance Commission. Ms. Ingram recently resigned from her seat, as she will be relocating to another state in November. You are asked to make a new appointment to serve the remainder of Ms. Ingram's term.

When possible, appointees to this Commission should have special training or experience in a design field, such as architecture, landscape design, horticulture, city planning, or a closely-related field.

/beb