



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

March 8, 2017

MEMORANDUM TO: Mr. Pat Ivey, P.E.
Division 9 Engineer

FROM: Philip S. Harris, III, P.E., Manager
for Natural Environment Section

SUBJECT: Forsyth County; Idols Rd. extension from Hampton Road (SR 2999) to
US 158 (Clemmons Rd.); Federal Aid No. STP-3000(1);
State Project No. 8.2624101; WBS 34845.1.1; **TIP U-2707.**

A handwritten signature in blue ink, appearing to be "PHS", is written over the name Philip S. Harris, III.

Attached are the modified US Army Corps of Engineers Individual Permit and N.C. Division of Water Resources (NCDWR) Water Quality Certification. All environmental permits have been received for the construction of this project.

A copy of this permit package will be posted on the NCDOT website at:
<https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx>
Quick Links>Permit Documents> Issued Permits.

cc: w/o attachment (see website for attachments)

Mr. Andy Gay, P.E. Contracts Management
Ms. Amy Euliss, Division 9 Environmental Officer
Dr. Majed Al-Ghandour, P.E., Programming and TIP
Ms. Brenda Moore, P.E., Roadway Design
Mr. Carl Barclay, P.E., Utilities Unit
Mr. Jay Twisdale, P.E., Hydraulics
Mr. Brian Hanks, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. Ron Hancock, P.E., State Roadway Construction Engineer
Mr. Brian Yamamoto, P.E., PDEA Western Section

PROJECT COMMITMENTS

TIP Project No. U-2707
SR 3000 (Idols Rd.) extension from SR 2999 (Hampton Road)
to US 158 (Clemmons Road)
Forsyth County
Federal Aid No. STP-3000(1)
State Project No. 8.2624101
WBS No. 34845.1.1

Commitments Developed through Project Development and Design

Current status, changes, or additions to the project commitments as shown in the environmental document for the project are printed in *italic* font.

Design Services/Division 9

- NCDOT will provide 4-ft paved shoulders to accommodate bicycle traffic along Idols Road Extension.

This commitment was addressed during design and will be implemented during construction.

- NCDOT will provide a left-turn lane for the access road to the historic property, Hanes Farm, if Alternative A is recommended and constructed.

Alternative B has been selected as the Preferred Alternative, so this commitment no longer applies.

- NCDOT will minimize tree removal between the railroad right of way and the edge of pavement on the new alignment in the area of the historic property, Hanes Farm, if Alternative B, C, or D is recommended and constructed.

This commitment was addressed during design and will be implemented during construction.

Roadside Environmental

- NCDOT will control erosion and sedimentation for the Muddy Creek crossing and the tributary culvert installation through the appropriate specification, installation, and maintenance of high quality erosion and sedimentation control measures.

The original commitment was based on Muddy Creek's 303(d) status at the time the Environmental Assessment was published (February 2002). Muddy Creek is currently included on the 2012 Final 303(d) list due to metals (copper and zinc), not sedimentation or turbidity. Therefore, NCDOT will utilize standard Best Management Practices for sedimentation and erosion control throughout construction of the project.

PDEA

- NCDOT will coordinate with the N.C. Division of Water Quality (DWQ) to fulfill the necessary requirements regarding stream mitigation. Compensatory mitigation with regard to stream mitigation is left to the discretion of DWQ. Pertinent details of the stream modifications will be outlined in the application for the 401 Water Quality Certification.

NCDOT coordinated with DWQ regarding the development of a compensatory stream mitigation plan. This commitment was addressed during the permitting process, via the inclusion of the compensatory stream mitigation plan in the permit application for the project. The 401 Permit was approved August 6, 2012.

The compensatory stream mitigation plan will be implemented prior to or during construction.

GeoEnvironmental

- One site exists within the project area that has the potential for Underground Storage Tank (UST) involvement. NCDOT will conduct further studies if the proposed project impacts the UST.

The parcel, former Ava Katrina Robertson property, at the intersection of Idols Road and Hampton Road was acquired by Right of Way. The GeoEnvironmental Section has conducted all necessary studies and preformed all necessary remediation at the site.

COMMITMENTS FROM PERMITTING

Natural Environment Section—Engineering Group

404 condition f

Compensatory mitigation for the unavoidable impacts to 892 (not including mitigation for 11 ft. of stream bank stabilization included in the requested 903 linear ft. of stream channel impacts) linear ft. of stream impact associated with the proposed project shall be provided by on-site stream restoration and enhancement to be performed by NCDOT at a 1:1 ratio. The on-site mitigation will be constructed and in compliance with the attached U-2707 Stream Mitigation Plan dated December 22, 2011 and identified as (Exhibit C).

401 condition 2

Compensatory mitigation for impacts to 831 linear ft. of streams at a replacement ratio of 1:1 is required. Compensatory mitigation for impacts to jurisdictional streams shall be provided by on-site stream relocation and restoration (1:1 ratio) of 1800 linear ft. of stream S-JH-A ('Reach 1') and by on-site enhancement (2:1) of 153 linear ft. of stream S-JH-B ('Reach 2'), generating 1876.5 stream mitigation credits. The on-site stream relocation shall be constructed in accordance with the design submitted in your May 10,

2012 application and additional information received electronically on June 25, 2012. All on-site mitigation sites shall be protected in perpetuity by a conservation easement or through NCDOT fee simple acquisition and recorded in the NCDOT Natural Environment Section mitigation geodatabase. Please be reminded that as-builts for the completed streams shall be submitted to the North Carolina Division of Water Quality 401 Wetlands Unit with the as-builts for the rest of the project. If the parameters of this condition are not met, then the permittee shall supply additional stream mitigation for the 831 linear ft. of impacts. All channel relocations will be constructed in a dry work area, will be completed and stabilized, and must be approved on-site by NCDWQ staff, prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. All stream relocations shall have a 50-foot wide native wooded buffer planted on both sides of the stream unless otherwise authorized by this Certification. A transitional phase incorporating rolled erosion control product (RECP) and appropriate ground cover is allowable.

401 condition 3

The stream mitigation site shall be monitored annually for five years or until success criteria are satisfied. Monitoring protocols shall follow the Monitoring Level I outlined in the Stream Mitigation Guidelines, April 2003.

401 condition 4

Success of the mitigation site shall be determined by NCDWQ during an on-site visit at or near the end of the monitoring period.

Natural Environmental Section/Division 9 Construction

Construction authorization will not be requested until ESA compliance is satisfied for the NLEB *USFWS stated via email that U-2707 is compliant with the 4d rule and Section 7 is therefore satisfied for this project.*

Natural Environmental Section/Division 9 Construction/Roadside Environmental

Muddy Creek is listed on NCDWRs 2014 303(d) list of impaired waters in North Carolina for turbidity, therefore; Design Standards in Sensitive Watersheds will be implemented for this project.

COMMITMENTS FROM PERMIT MODIFICATION

Natural Environmental Section/Division 9 Construction

The 404 permit mod issued August 30, 2016 and the 401 permit mod issued September 12, 2016 add no new commitments except that the commitments from the original 404 and 401 issued May 4, 2012 and August 6, 2012, respectively, still remain valid.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

COPY

August 30, 2016

Regulatory Division/1200A

Action ID: SAW-1998-20439

Mr. Philip S. Harris III, P.E., C.P.M.
North Carolina Department of Transportation
Project Development and Environmental Analysis
Natural Environment Section
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Reference is made to your Department of the Army (DA) permit issued on May 4, 2012, that authorized the proposed permanent placement of fill material into 903 linear feet of streams and 0.81 acre of wetlands to facilitate the construction of an extension of SR 3000 (Idols Road) from SR 2999 (Hampton Road) to US 158 (Clemmons Road) near Clemmons, in Forsyth County, North Carolina.

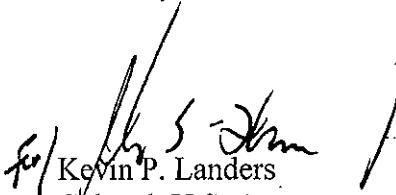
Reference also your written request of August 25, 2016, for a modification to your DA permit to authorize changes to impacts to jurisdictional waters as defined by plans included in your request associated with proposed permanent fill impacts at Site #2 (14 linear feet of stream bank stabilization and temporary fill impacts at Site 5# (50 linear feet of stream channel for a 48" culvert associated with a temporary crossing for construction equipment access).

We have determined that the proposed changes/modifications to the construction plans including temporary/permanent impacts to jurisdictional waters are minor. Therefore, a supplemental public notice is not necessary. The permit is hereby modified to include the change in impacts to jurisdictional waters as described in the referenced provided construction plans included with your August 25, 2016, modification request. It is understood that all other conditions of the original permit remain applicable, including the permit expiration date of December 31, 2019.

If the permitted work is not completed on or before the date herein specified, the authorization, if not previously revoked or specifically further extended, will cease and become null and void. If additional time is required to complete the project, you should contact this office with a request for an additional time extension.

Should you have questions, please contact Mr. John Thomas, Raleigh Regulatory Field Office, at (919) 554-4884 extension 25.

Sincerely,


Kevin P. Landers
Colonel, U.S. Army
District Commander

cc:
NC DOT / Div 9
Amy Euliss
375 Silas Creek Parkway
Winston-Salem, North Carolina 27127



PAT MCCRORY
Governor
DONALD R. VAN DER VAART
Secretary
JAY ZIMMERMAN
DWR Director

September 12, 2016

Mr. Philip S. Harris, III, P.E., CPM
Natural Environment Section Head
Project Development and Environmental Analysis
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina, 27699-1598

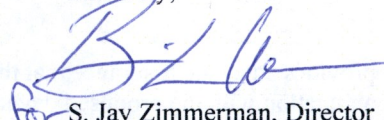
Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS for Proposed extension of SR 3000 (Idols Road) from SR 2999 (Hampton Road) to US 158 (Clemmons Road), Forsyth County. Federal Aid Project No. STP-3000(1), State Project No. 8.2624101, TIP No. U-2707. WBS Element No. 34845.1.1. NCDWR Project No. 20120470_v2

Dear Mr. Harris:

Attached hereto is a modification of Certification No. 003938 issued to The North Carolina Department of Transportation (NCDOT) dated September 12, 2016. The original Certification was dated August 6, 2012.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,


For S. Jay Zimmerman, Director
Division of Water Resources

Attachments

Electronic copy only distribution:

John Thomas, US Army Corps of Engineers, Raleigh Field Office
Amy Euliss, Division 9 Environmental Officer
Rodger Rochelle, NC Department of Transportation
Colin Mellor, NC Department of Transportation
Carla Dagnino, NC Department of Transportation
Dr. Cynthia Van Der Wiele, US Environmental Protection Agency
Marla Chambers, NC Wildlife Resources Commission
Jason Elliott, NCDOT, Natural Environment Section
Dave Wanucha, NC Division of Water Resources Winston Salem Regional Office
File Copy



**Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act
with ADDITIONAL CONDITIONS**

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500. This certification authorizes the NCDOT to impact an additional 64 linear feet (14 feet of bank stabilization and 50 feet of temporary impacts) of jurisdictional streams in Forsyth County. The project shall be constructed pursuant to the modification dated received August 25, 2016. The authorized impacts are as described below:

Stream Impacts in the Yadkin Pee Dee River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
Original approved impacts at Site 2 (Culvert)	61	-	61	-
New additional impacts with this approval at Site 2 (Bank Stabilization)	14	-	14	-
Original approved impacts at Site 5	-	-	-	-
New additional impacts with this approval at Site 5 (Temporary Pipe)	-	50	50	-
Total New Impacts	14	50	64	-

Total Stream Impact for Modification: 64 linear feet

The application provides adequate assurance that the discharge of fill material into the waters of the Yadkin Pee Dee River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your modified application dated August 25, 2016. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated August 6, 2012 still apply except where superseded by this certification. Should your project change, you are required to notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Condition(s) of Certification:

1. This modification is applicable only to the additional proposed activities. All of the authorized activities and conditions of certification associated with the original Water Quality Certification dated August 6, 2012 still apply except where superseded by this certification.
2. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in

flowing water. [15A NCAC 02H.0506(b)(3) and (c)(3)]

3. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
4. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3) and (c)(3):
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the North Carolina Sediment and Erosion Control Manual. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Surface Mining Manual.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:


Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714
Telephone: (919) 431-3000, Facsimile: (919) 431-3100

A copy of the petition must also be served on DEQ as follows:

Mr. Sam M. Hayes, General Counsel
Department of Environmental Quality
1601 Mail Service Center

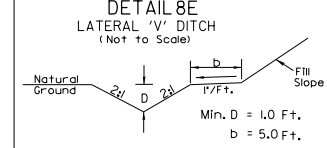
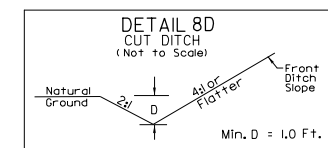
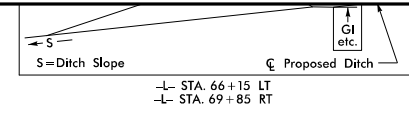
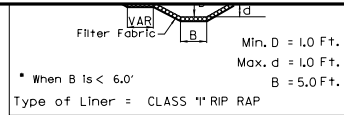
This the 12th day of September 2016

DIVISION OF WATER RESOURCES


for S. Jay Zimmerman, Director

WQC No. 003938

8/17/99



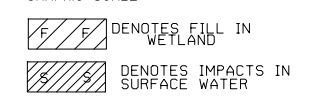
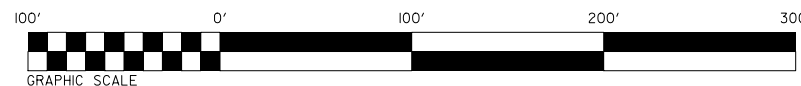
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PI Sta 11+20.93 = 36° 00' 35.0" (RT)
D = 28' 06" 14.7"
L = 128.13'
T = 66.26'
R = 203'
SE = NC

PI Sta 12+50.65 = 88° 08' 51.4" (RT)
D = 83' 08" 51.4"
L = 135.47'
T = 67.85'
R = 932.00'
SE = NC

SEPI
1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

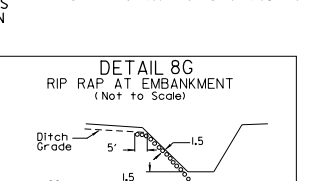
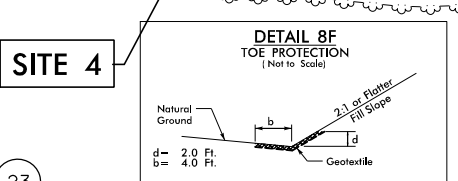
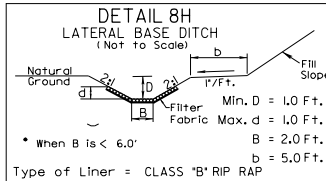
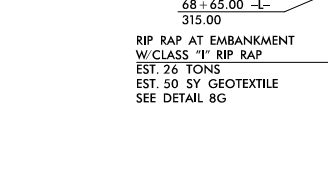
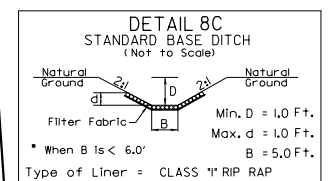
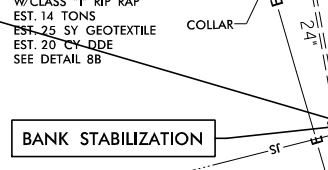
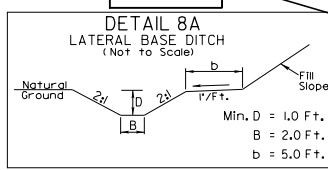
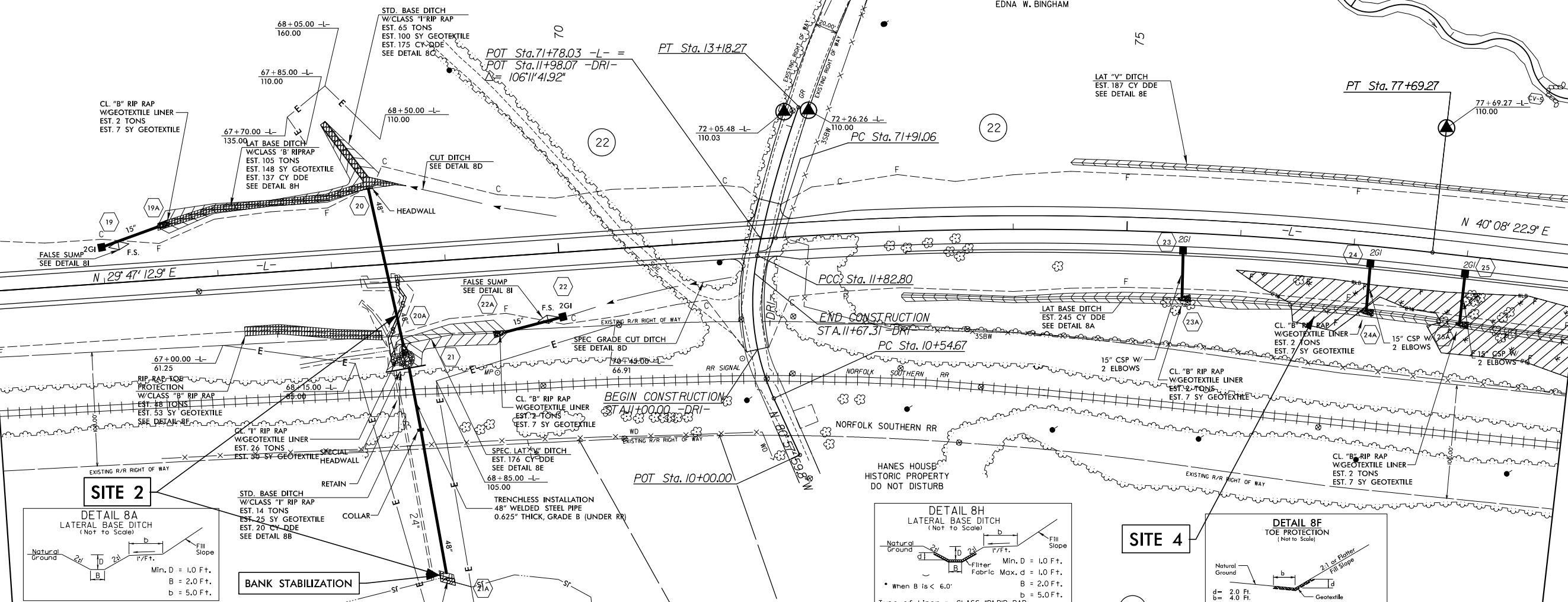
PROJECT REFERENCE NO. U-2707	SHEET NO. 8
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



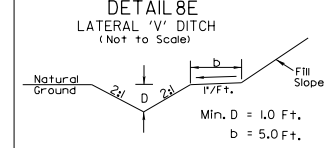
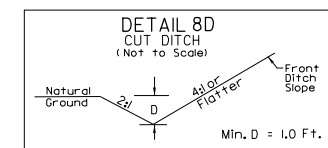
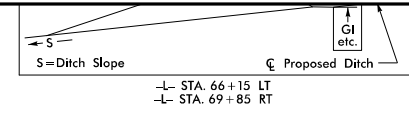
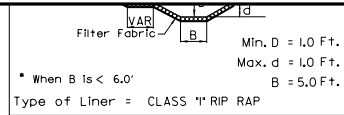
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MATCH LINE
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L = 578.21'
T = 289.89'
R = 3,200.00'
SE = 0.04
RUNOFF = 100'

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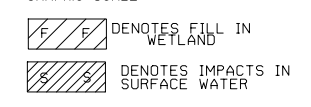
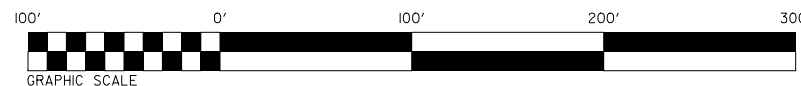


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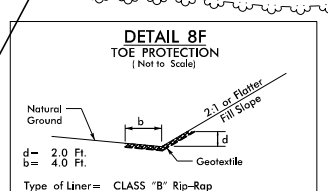
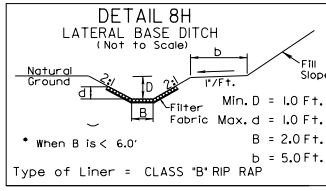
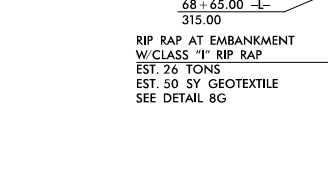
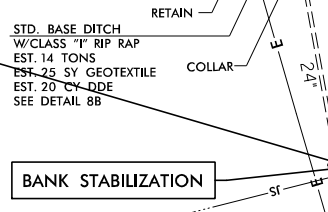
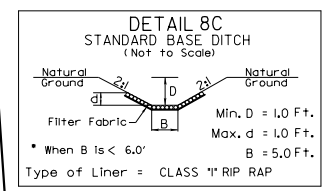
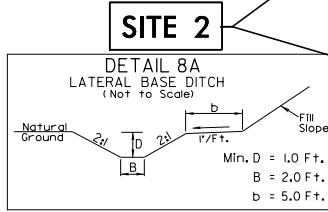
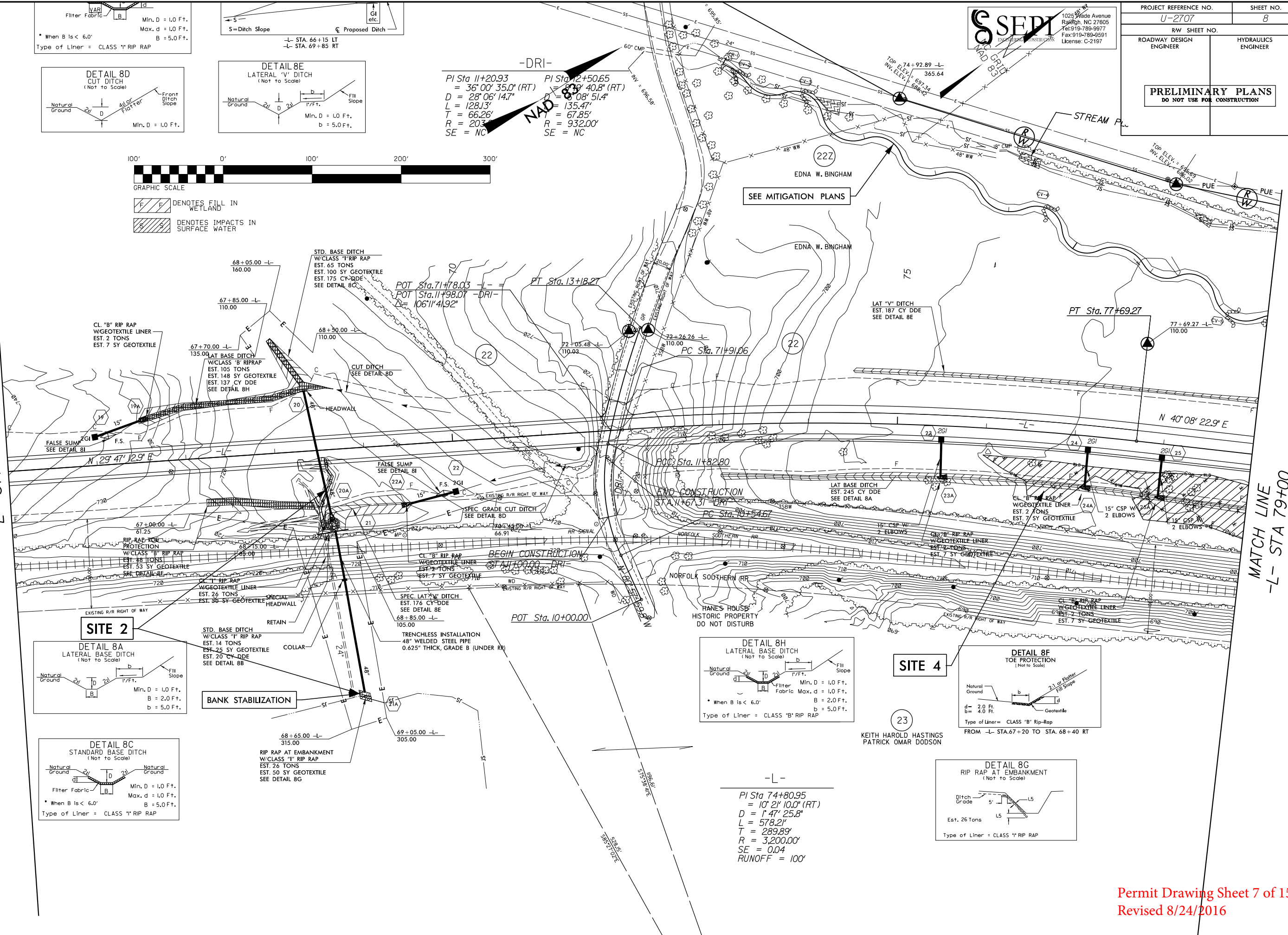
SEPI
 ENGINEERING CONSULTANTS
 1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-789-9977
 Fax: 919-789-9591
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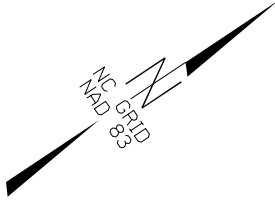
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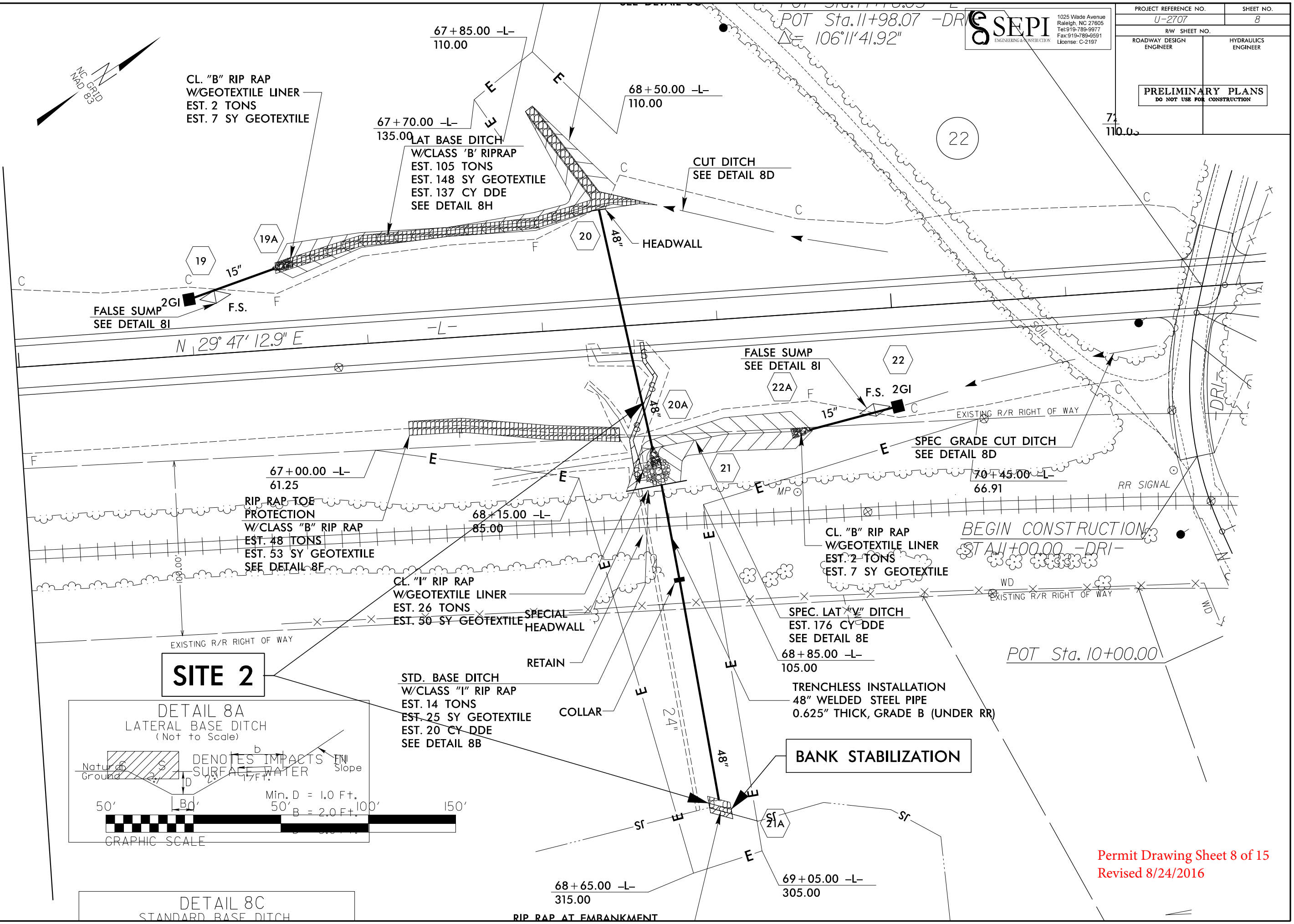
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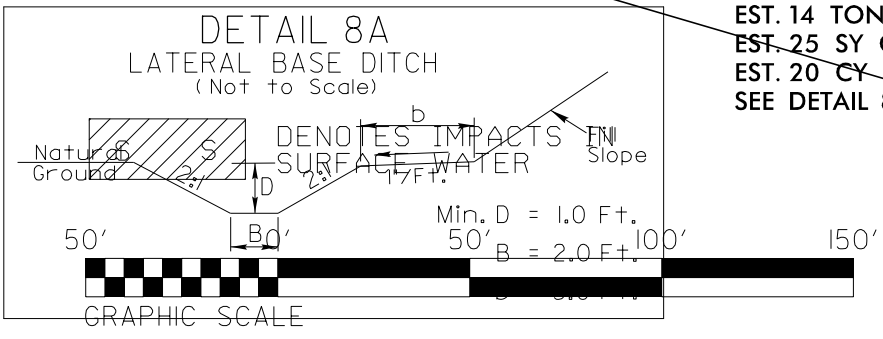
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R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



SITE 2



RIP RAP AT EMBANKMENT

Permit Drawing Sheet 8 of 15
Revised 8/24/2016

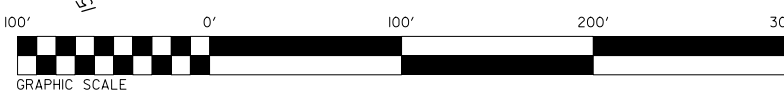
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1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9991
License: C-2197

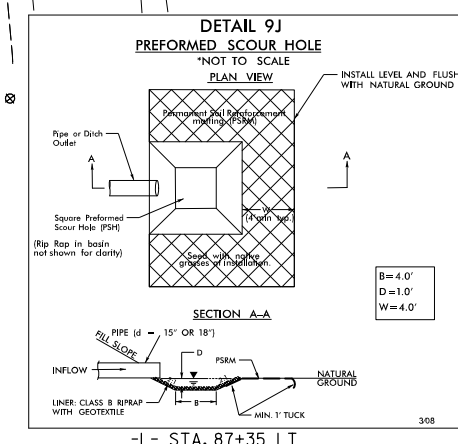
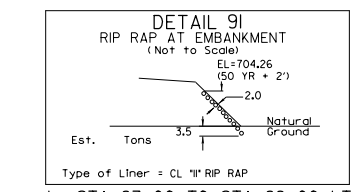
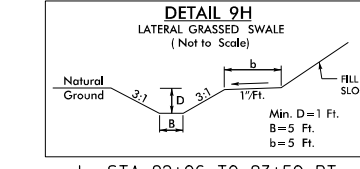
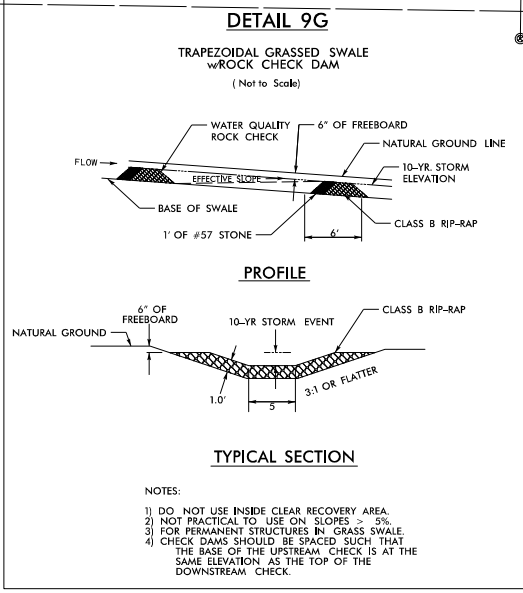
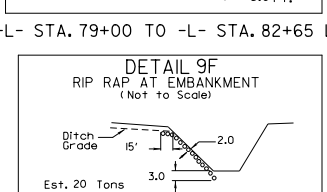
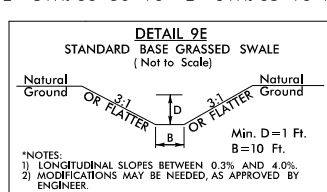
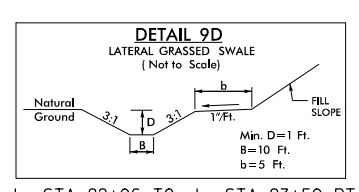
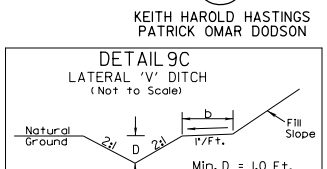
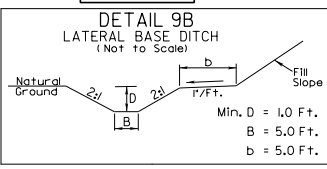
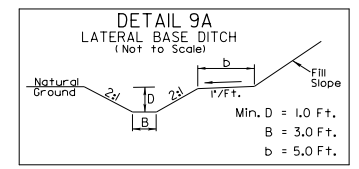
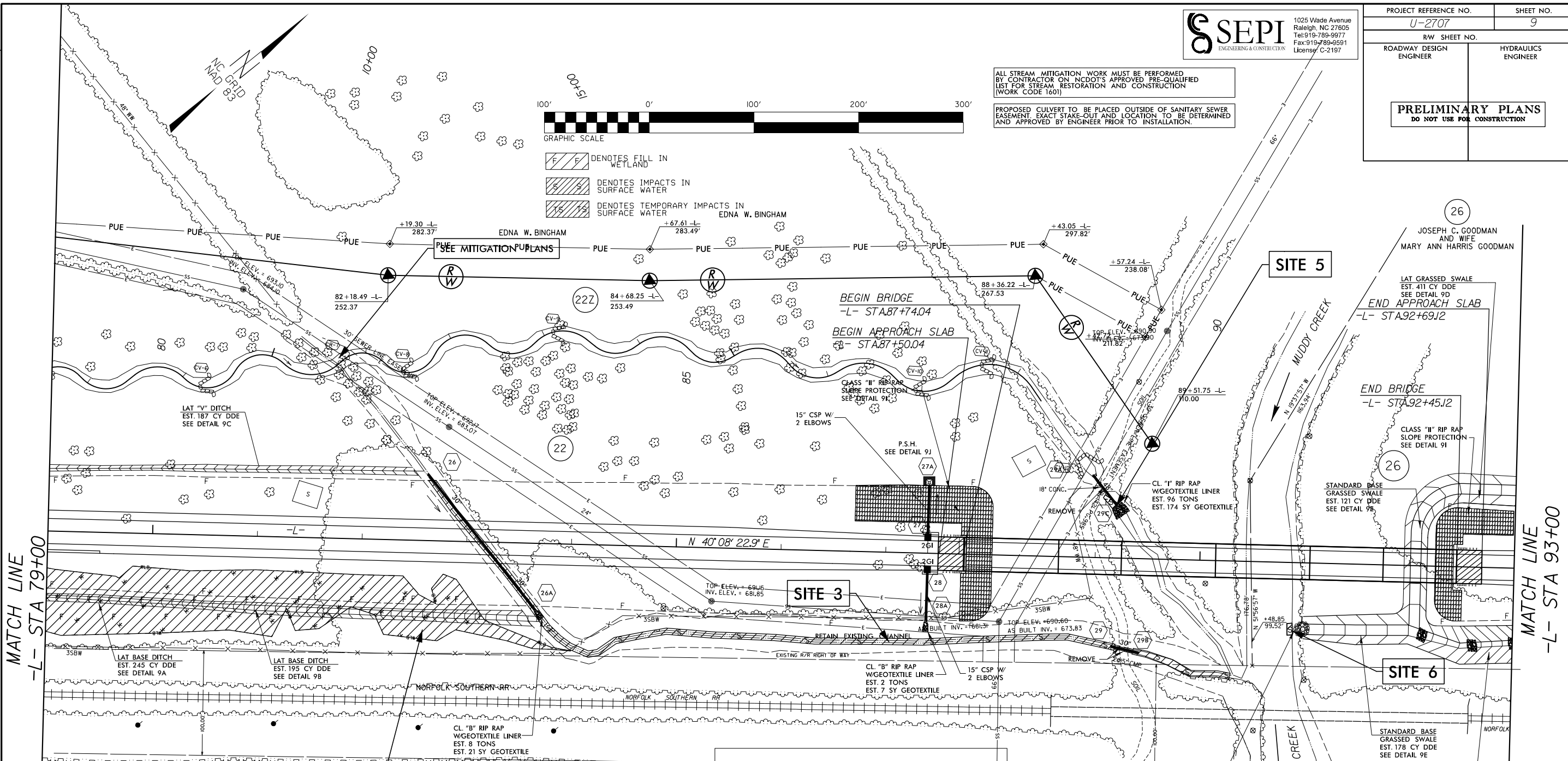
PROJECT REFERENCE NO. U-2707	SHEET NO. 9
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

ALL STREAM MITIGATION WORK MUST BE PERFORMED BY CONTRACTOR ON NCDOT'S APPROVED PRE-QUALIFIED LIST FOR STREAM RESTORATION AND CONSTRUCTION (WORK CODE 1601)

PROPOSED CULVERT TO BE PLACED OUTSIDE OF SANITARY SEWER EASEMENT EXACT STAKE-OUT AND LOCATION TO BE DETERMINED AND APPROVED BY ENGINEER PRIOR TO INSTALLATION.



- DENOTES FILL IN WETLAND
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



Permit Drawing Sheet 10 of 15
Revised 8/24/2016

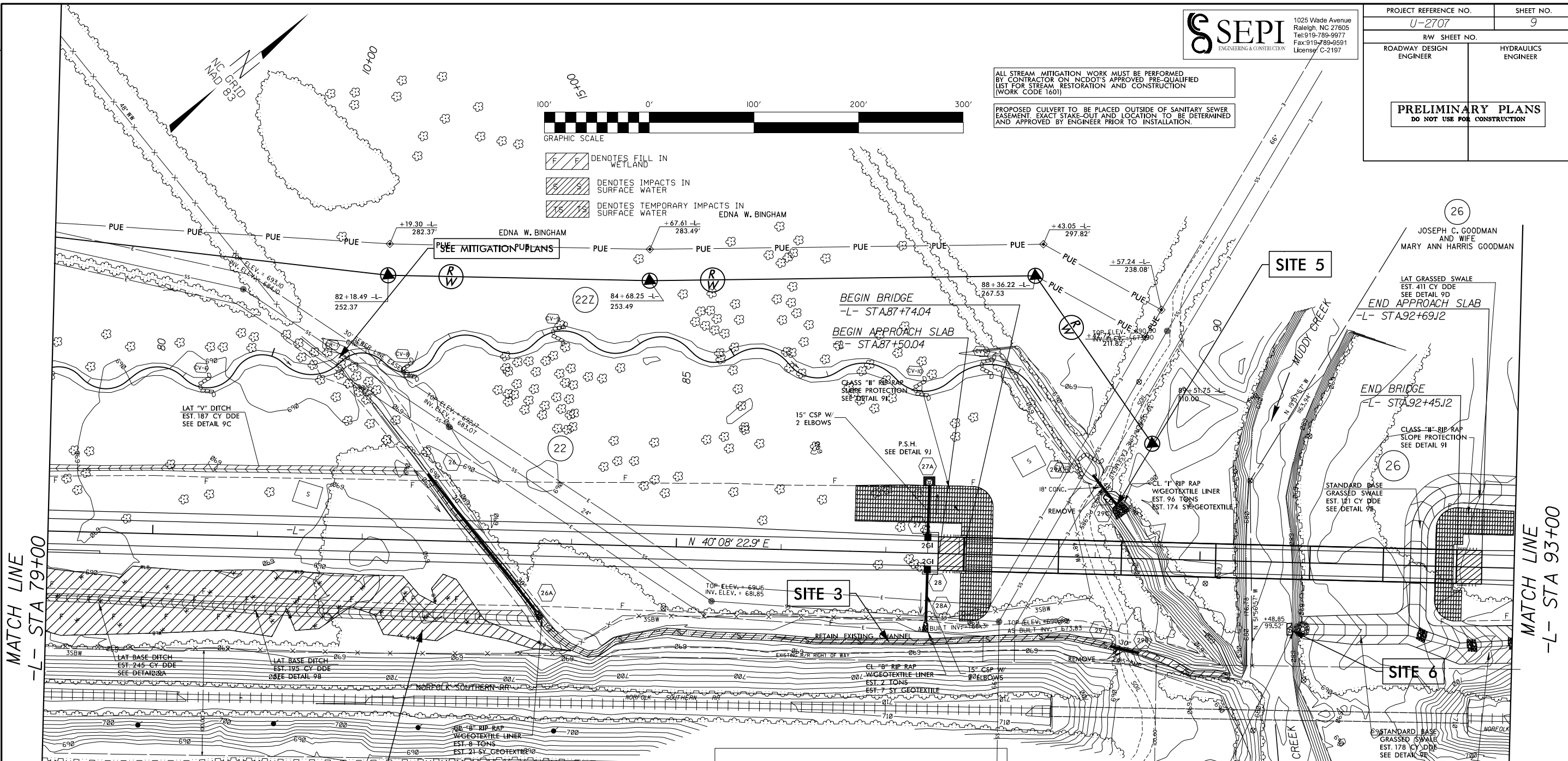
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SEPI
ENGINEERING & CONSTRUCTION
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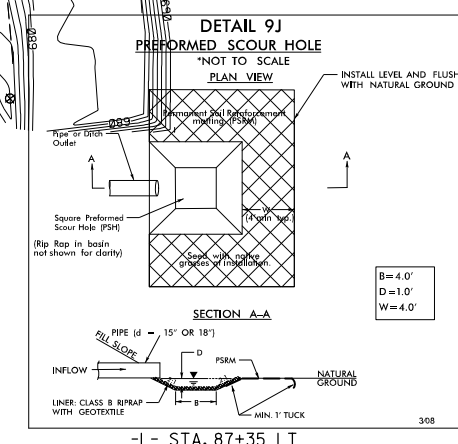
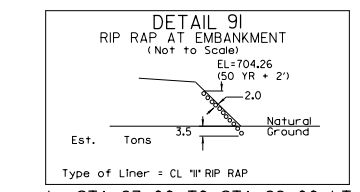
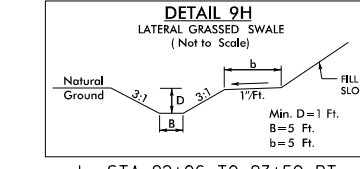
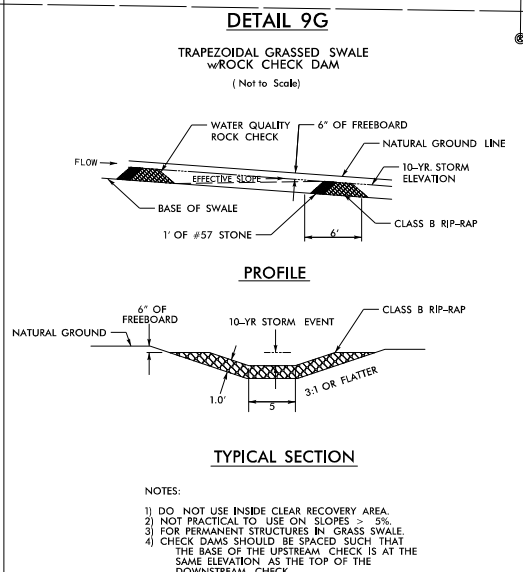
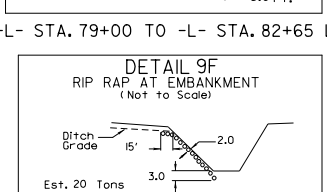
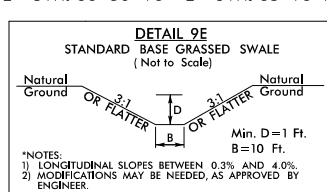
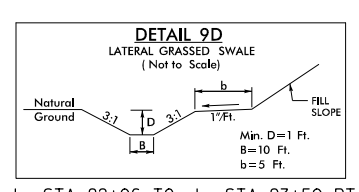
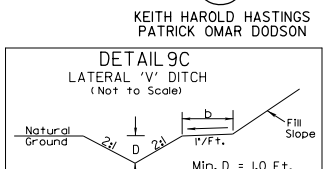
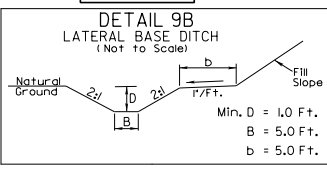
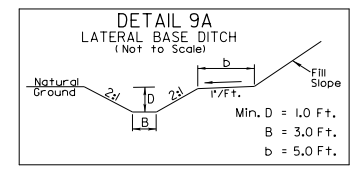
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MATCH LINE
-L- STA 79+00

MATCH LINE
-L- STA 93+00



WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 40+80	48"				0.03						
2	-L- 68+50	48"						<0.01		61		
	-L- 68+82	Bank Stabilization						<0.01		14		
3	-L- 73+09 to 90+31	Roadway Fill						0.10		831		1876.5
4	-L- 75+98 to 84+02 Rt.	Roadway Fill	0.78									
5	-L- 89+00 Lt.	1 @ 48" Temp. Pipe							<0.01		50	
6	-L- 90+85 Rt.	Bank Stabilization						<0.01		11		
TOTALS:			0.78			0.03		0.10	<0.01	917	50	1876.5

Permit Drawing Sheet 15 of 15
Revised 8/24/2016

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FORSYTH COUNTY
WBS - 34845.1.1 (U-2707)

SHEET 8/2/2016

ATN Revised 3/31/05