



North Carolina Department of Transportation
Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 3.02; Released April 23, 2024)

WBS Element:		TIP/Proj No: 18314.1045039		County(ies): Henderson		Page 1 of 2	
General Project Information							
WBS Element:		TIP Number: 18314.1045039		Project Type: Other		Date: 0710/2025	
NCDOT Contact:		Nathan Tanner, PE		Contractor / Designer:		Davin Morrison, PE	
		Address: NCDOT Highway Division 14 253 Webster Road Sylva, NC 28779				Address: 440 South Church Street Suite 1200 Charlotte, NC 28202-2075	
		Phone: 828 331-5213				Phone: 980 337-5181	
		Email: ntanner@ncdot.gov				Email: davin.morrison@hdrinc.com	
City/Town:		Gerton & Bat Cave		County(ies): Henderson			
River Basin(s):		Broad		CAMA County?		No	
Wetlands within Project Limits?		No					
Project Description							
Project Length (lin. miles or feet):		2.17		Surrounding Land Use: Forested, Low Density Residential, Commercial, and Transportation			
		Proposed Project				Existing Site	
Project Built-Upon Area (ac.):		6.9 ac.		6.5 ac.			
Typical Cross Section Description:		Maintain existing two lane highway with 10' wide travel lanes, shoulders, and roadside ditches where Hurricane Helene storm damage to the roadway was minimal or did not occur. Where damage has occurred, roadway will be reconstructed with two 11' wide travel lanes, 3' wide shoulders (6' wide with guardrail), expressway gutter, and roadside ditches.				Pre-Hurricane Helene, US 74A was a two lane highway with 10' wide travel lanes with narrow shoulders and roadside ditches. Post-Hurricane Helene, the road was heavily damaged at several locations.	
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 3000		Year: 2040		Existing: 1500 Year: 2017	
General Project Narrative: (Description of Minimization of Water Quality Impacts)		This SMP is for Work Package 3 from Bearwallow Mountain Road to Grant Mountain Road. A separate SMP will be submitted for Work Package 4 from Grant Mountain Road to NC 9. Retaining walls and/or 1.25:1 grouted rip rap embankments will be used to repair severely damaged roadway fill slopes adjacent to Hickory Creek. The stream will be relocated to its pre-storm location where needed to protect the roadway. Stream impacts will be kept to a minimum by only relocating the stream where needed, installing retaining walls to keep fill slopes out of the stream, and armoring the roadway embankment with a 1.25:1 grouted rip rap to reduce the impacts that may be caused by a standard 2:1 fill slope. Rip rap aprons and standard base ditches will be used to capture flow from culverts that pass under the roadway to help reduce outlet velocities and erosion.					



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WBS Element: TIP/Proj No.: 18314.1045039 County(ies): Henderson Page 2 of 2

General Project Information

Waterbody Information

Surface Water Body (1):	Hickory Creek	NCDWR Stream Index No.:	9-14
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C	
	Supplemental Classification:	Trout Waters (Tr)	
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?	Comments:		
NRTR Stream ID:		Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No
Deck Drains Discharge Over Water Body?	No	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)			
Surface Water Body (2):	UT to Hickory Creek	NCDWR Stream Index No.:	9-14
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C	
	Supplemental Classification:	Trout Waters (Tr)	
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?	Comments:		
NRTR Stream ID:		Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A
Deck Drains Discharge Over Water Body?	No	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)			
Surface Water Body (3):		NCDWR Stream Index No.:	
NCDWR Surface Water Classification for Water Body	Primary Classification:		
	Supplemental Classification:		
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?	Comments:		
NRTR Stream ID:		Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)			

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09/05/2019

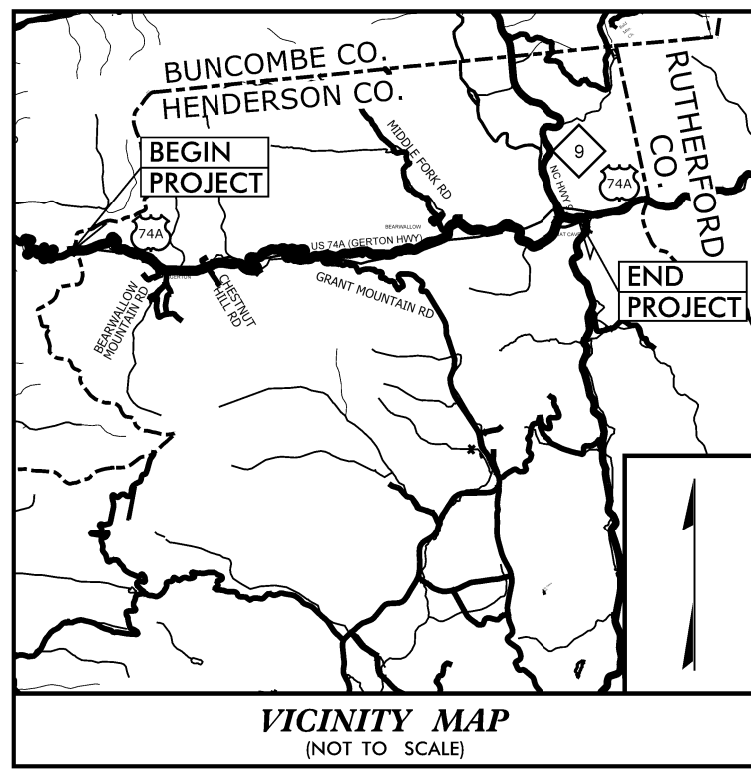
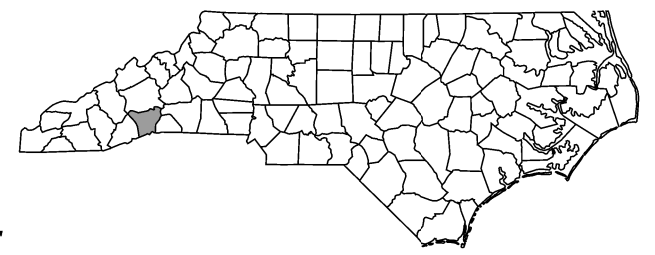
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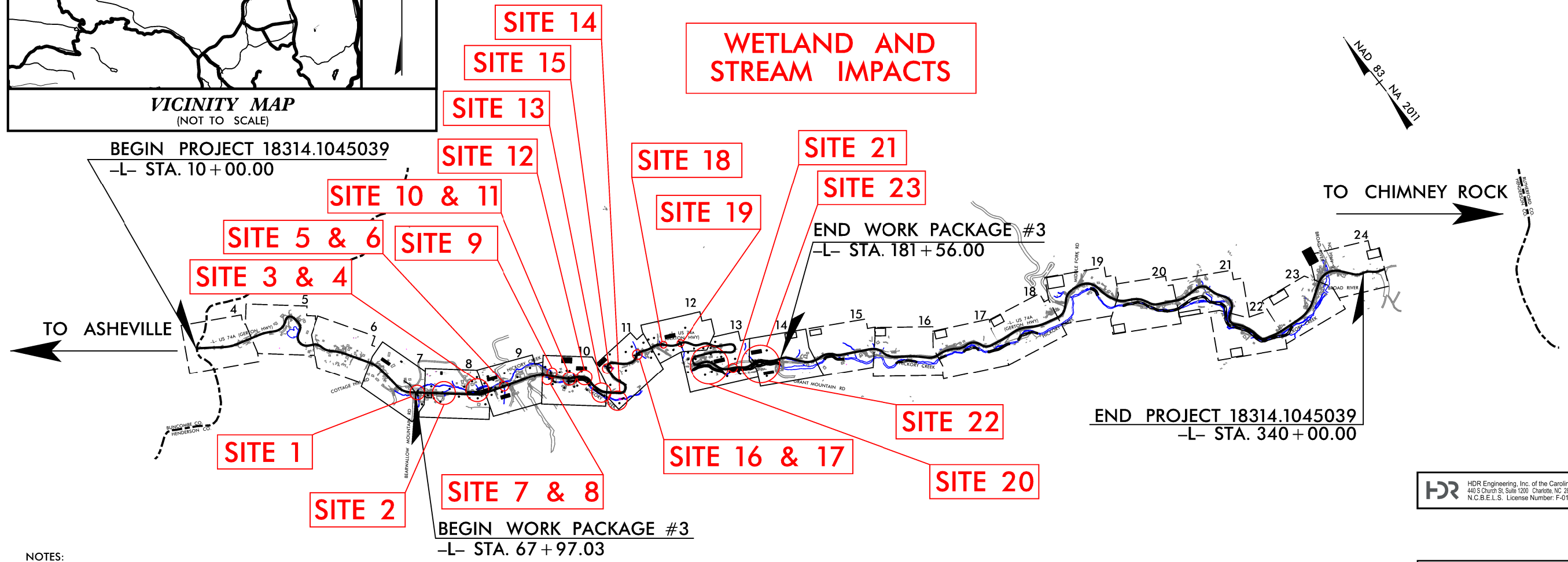
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PERMIT DRAWING
SHEET 1 OF 24

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	18314.1045039	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
-----	N/A	P.E.	
-----	N/A	ROW	



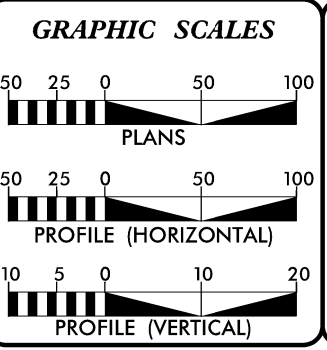
VICINITY MAP
(NOT TO SCALE)



- NOTES:
1. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.
 2. THIS IS A NO CONTROL OF ACCESS PROJECT.

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DESIGN DATA	
2017	= 1,500
ADT 2040	= 3,000
T	= 8 %
V	= 40 MPH
FUNC CLASS = MINOR ARTERIAL	

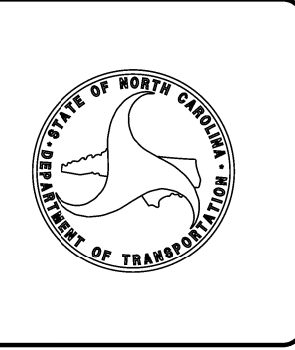
PROJECT LENGTH	
LENGTH ROADWAY WORK PACKAGE #3	= 2.167 MILES
TOTAL LENGTH TIP PROJECT US-74A	= 6.250 MILES



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N.C.B.E.L.S. License Number: F-0116

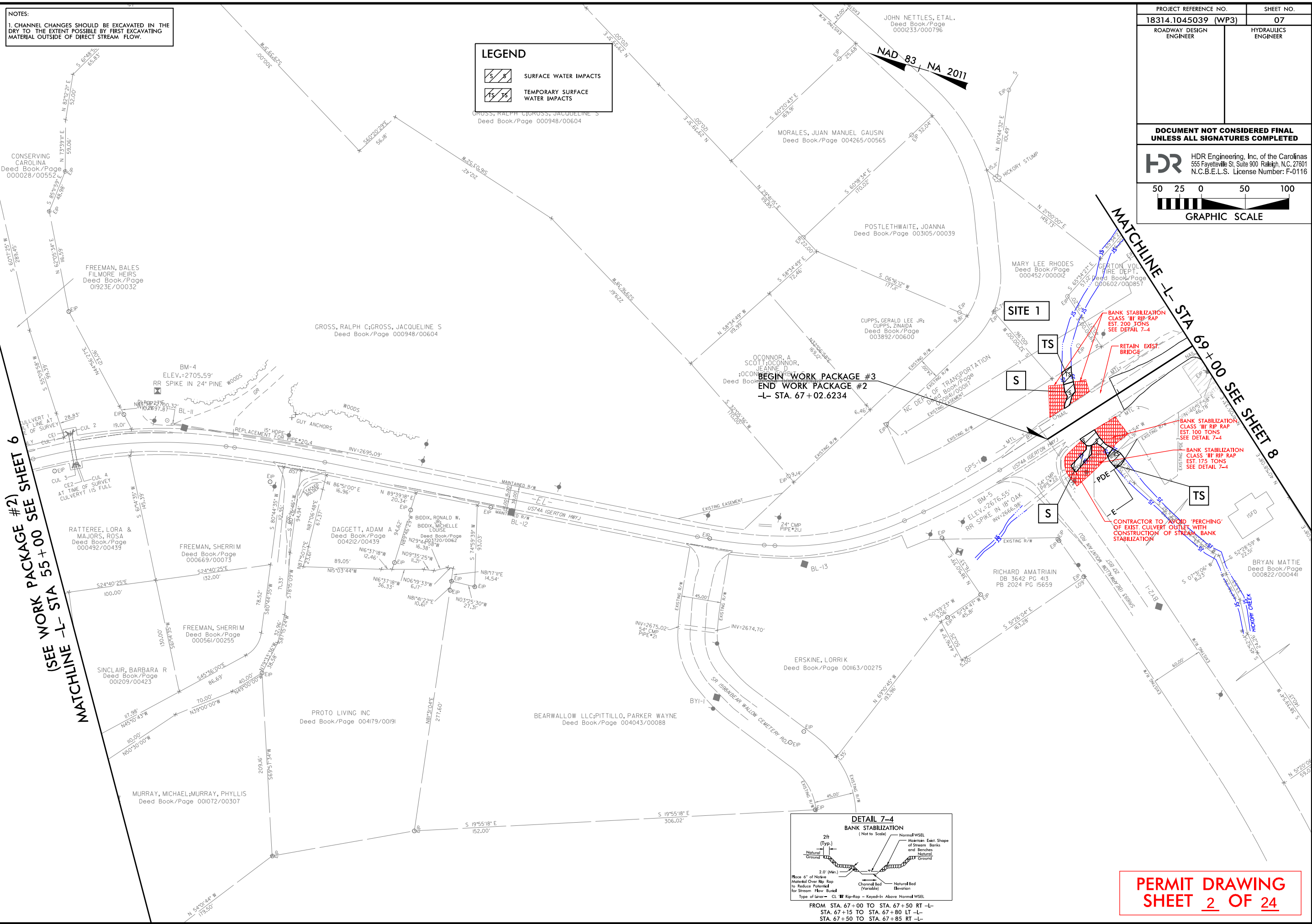
2024 STANDARD SPECIFICATIONS	PHILLIP E. ROGERS, PE PROJECT ENGINEER
RIGHT OF WAY DATE:	MATTHEW J. WERDER, PE PROJECT DESIGN ENGINEER
LETTING DATE:	NATHAN R. TANNER, PE NCDOT CONTACT

HYDRAULICS ENGINEER	ROADWAY DESIGN ENGINEER
SIGNATURE: _____ P.E.	SIGNATURE: _____ P.E.



REVISIONS

6/2/99



REVISIONS

6/2/24

NOTES:
1. CHANNEL CHANGES SHOULD BE EXCAVATED IN THE DRY TO THE EXTENT POSSIBLE BY FIRST EXCAVATING MATERIAL OUTSIDE OF DIRECT STREAM FLOW.

LEGEND



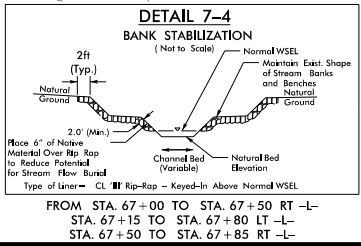
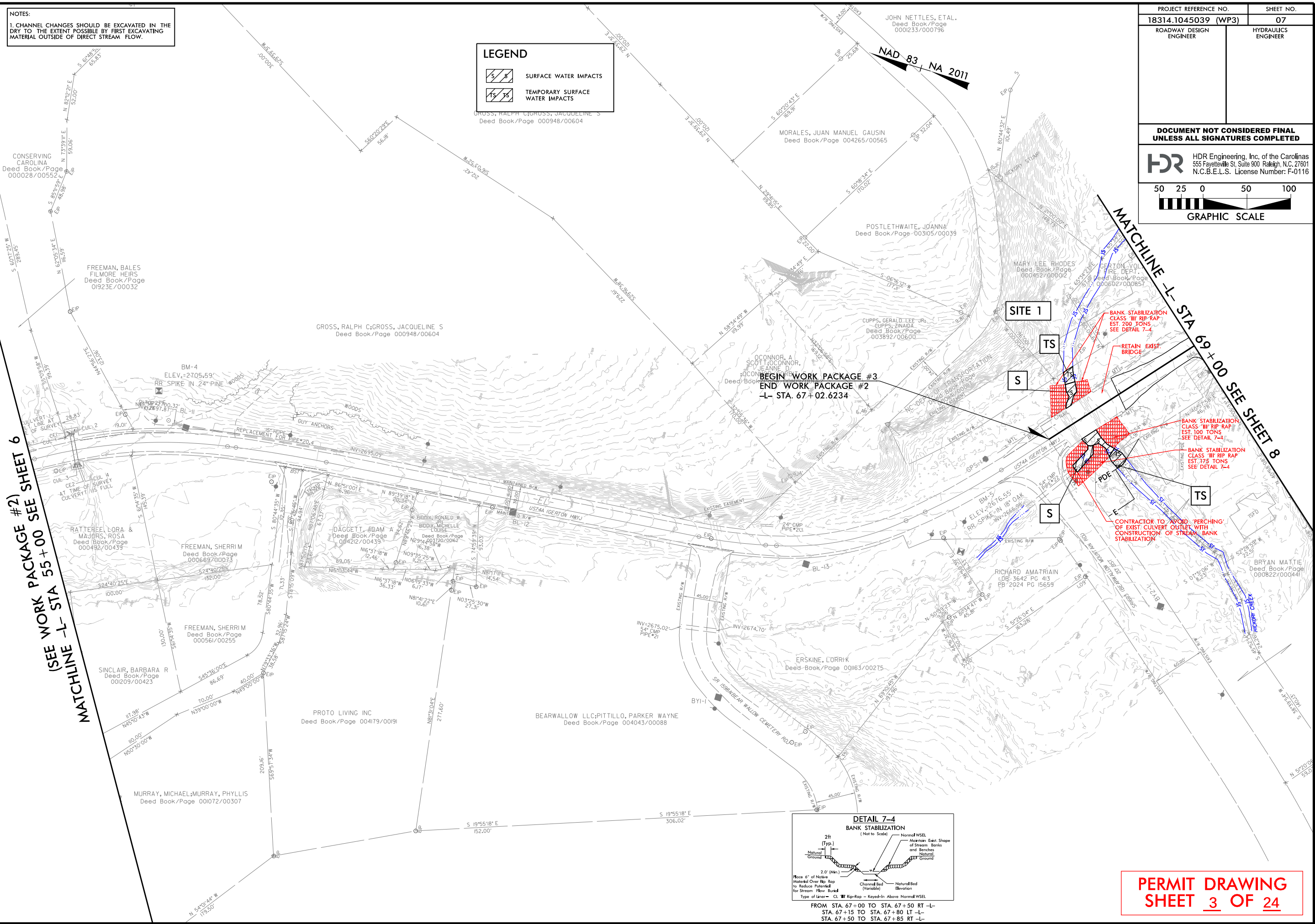
SURFACE WATER IMPACTS



TEMPORARY SURFACE WATER IMPACTS

PROJECT REFERENCE NO.		SHEET NO.	
18314.1045039 (WP3)		07	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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 50 25 0 50 100 GRAPHIC SCALE			

SEE WORK PACKAGE #2
(SEE WORK PACKAGE #2)
MATCHLINE L- STA 55+00 SEE SHEET 6



PERMIT DRAWING
SHEET 3 OF 24

REVISIONS

6/2/24

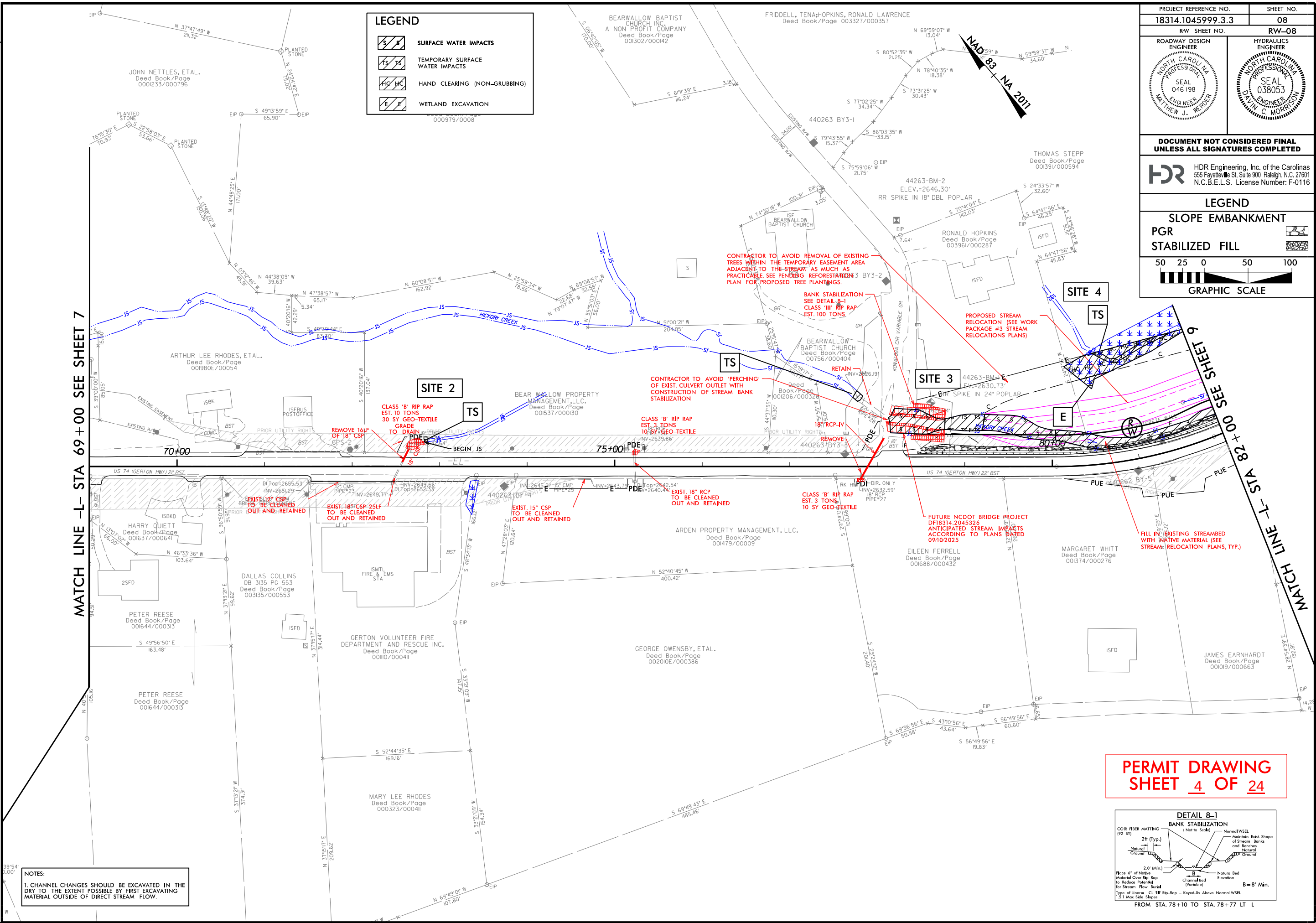
MATCH LINE -L- STA 69+00 SEE SHEET 7

NOTES:
1. CHANNEL CHANGES SHOULD BE EXCAVATED IN THE DRY TO THE EXTENT POSSIBLE BY FIRST EXCAVATING MATERIAL OUTSIDE OF DIRECT STREAM FLOW.

LEGEND

- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS
- HAND CLEARING (NON-GRUBBING)
- WETLAND EXCAVATION

PROJECT REFERENCE NO. 18314.1045999.3.3		SHEET NO. 08	
R/W SHEET NO. RW-08		ROADWAY DESIGN ENGINEER SEAL 046198 MATTHEW J. WERDER	
ROADWAY DESIGN ENGINEER SEAL 046198 MATTHEW J. WERDER		HYDRAULICS ENGINEER SEAL 038053 DAVIN C. MORRISON	
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LEGEND			
SLOPE EMBANKMENT			
PGR			
STABILIZED FILL			
50 25 0 50 100 GRAPHIC SCALE			



**PERMIT DRAWING
SHEET 4 OF 24**

DETAIL 8-1
BANK STABILIZATION
(Not to Scale)

This detail shows a cross-section of a bank stabilization structure. It includes layers of 2' of native material, 2' of rip rap, and 2' of stabilized fill. The structure is designed to maintain the right-of-way (RW) and provide a stable channel bed. Key dimensions and materials include:

- 2' (Typ.) of native material
- 2' of rip rap
- 2' of stabilized fill
- Channel bed elevation (Variable)
- Normal WSEL (Water Surface Elevation)
- Minimum Right Shape of Stream Banks and Benches
- Normal Bed Elevation
- B = 8' Min.

FROM STA. 78+10 TO STA. 78+77 LT -L-

REVISIONS

6/2/24

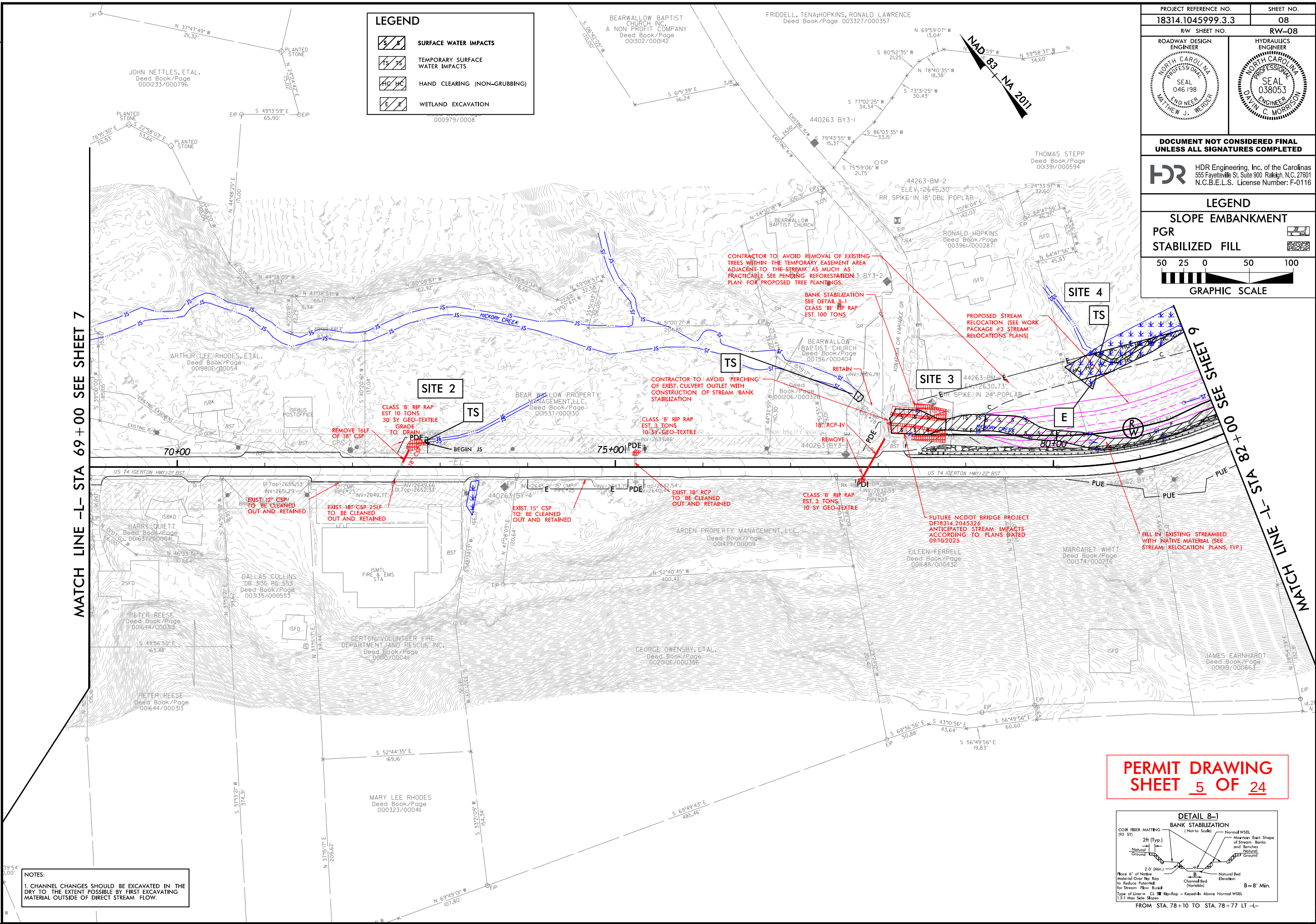
MATCH LINE -L- STA 69+00 SEE SHEET 7

NOTES:
1. CHANNEL CHANGES SHOULD BE EXCAVATED IN THE DRY TO THE EXTENT POSSIBLE BY FIRST EXCAVATING MATERIAL OUTSIDE OF DIRECT STREAM FLOW.

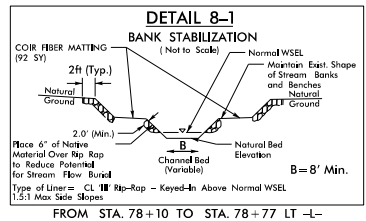
LEGEND

- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS
- HAND CLEARING (NON-GRUBBING)
- WETLAND EXCAVATION

PROJECT REFERENCE NO. 18314.1045999.3.3		SHEET NO. 08	
RW SHEET NO. RW-08		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER 			
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LEGEND			
SLOPE EMBANKMENT			
PGR			
STABILIZED FILL			
GRAPHIC SCALE			

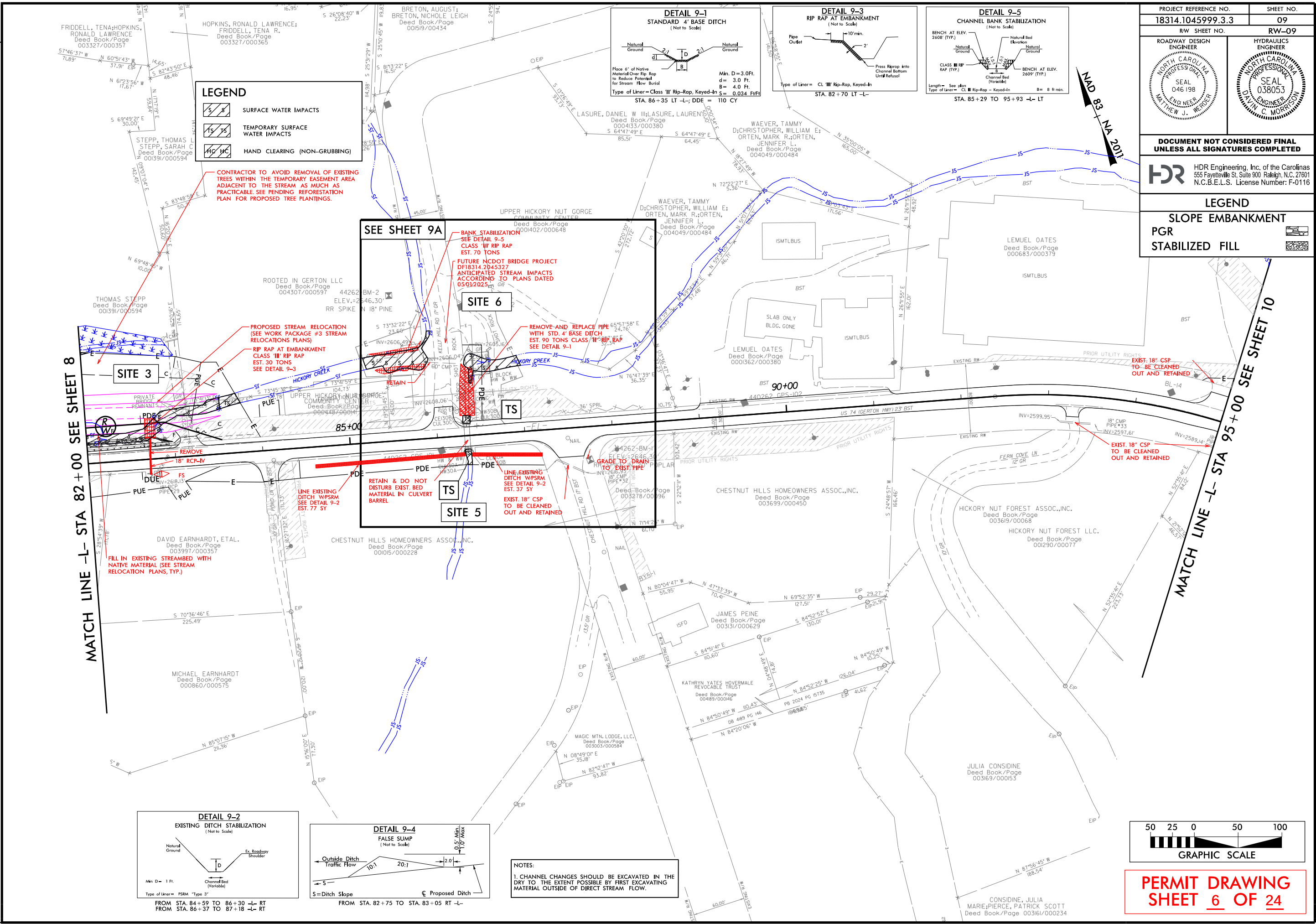


**PERMIT DRAWING
SHEET 5 OF 24**



REVISIONS

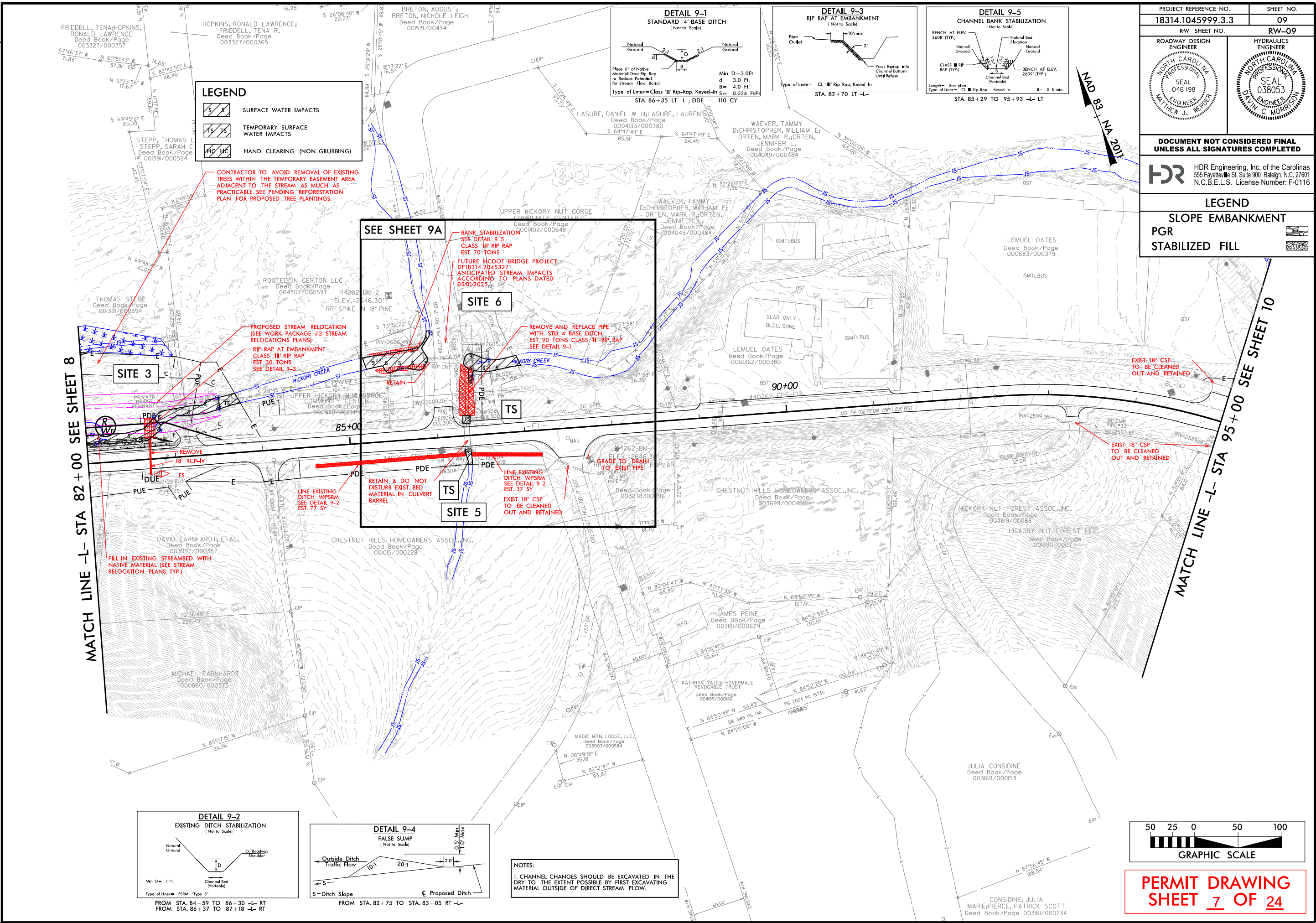
6/22/99



PROJECT REFERENCE NO. 18314.1045999.3.3		SHEET NO. 09	
RW SHEET NO. RW-09		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 046198 MATTHEW J. WERDER	
NORTH CAROLINA PROFESSIONAL SEAL		NORTH CAROLINA PROFESSIONAL SEAL 038053 DAVID C. MORRISON	
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LEGEND			
SLOPE EMBANKMENT			
PGR			
STABILIZED FILL			

REVISIONS

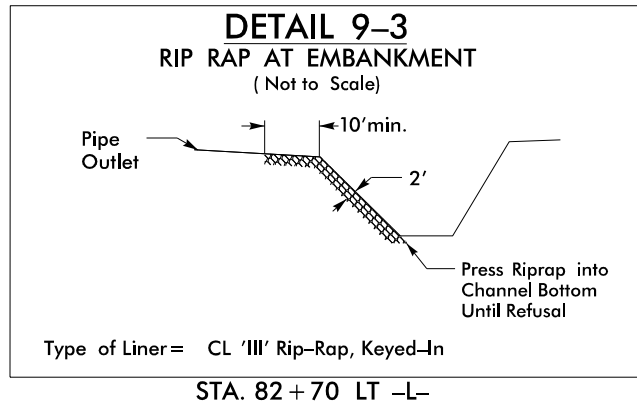
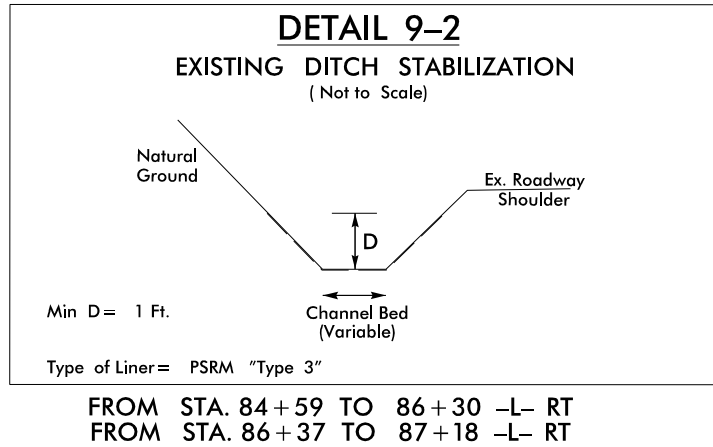
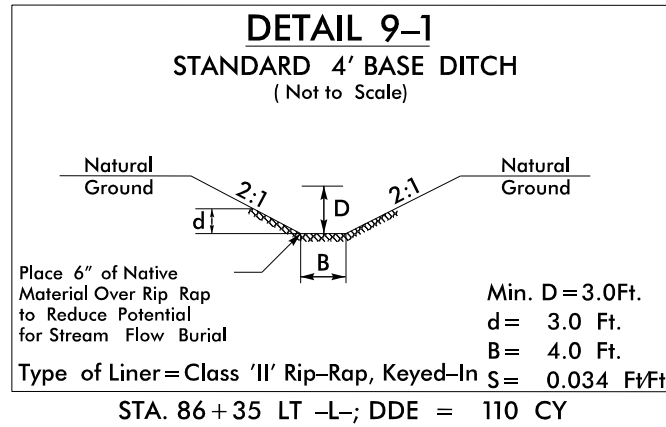
6/2/2026



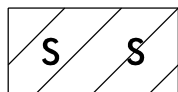
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RW SHEET NO. RW-09		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 046198 MATTHEW J. WERDER	
NORTH CAROLINA PROFESSIONAL ENGINEER		SEAL 038053 C. MORRISON	
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LEGEND			
SLOPE EMBANKMENT			
PGR			
STABILIZED FILL			

REVISIONS

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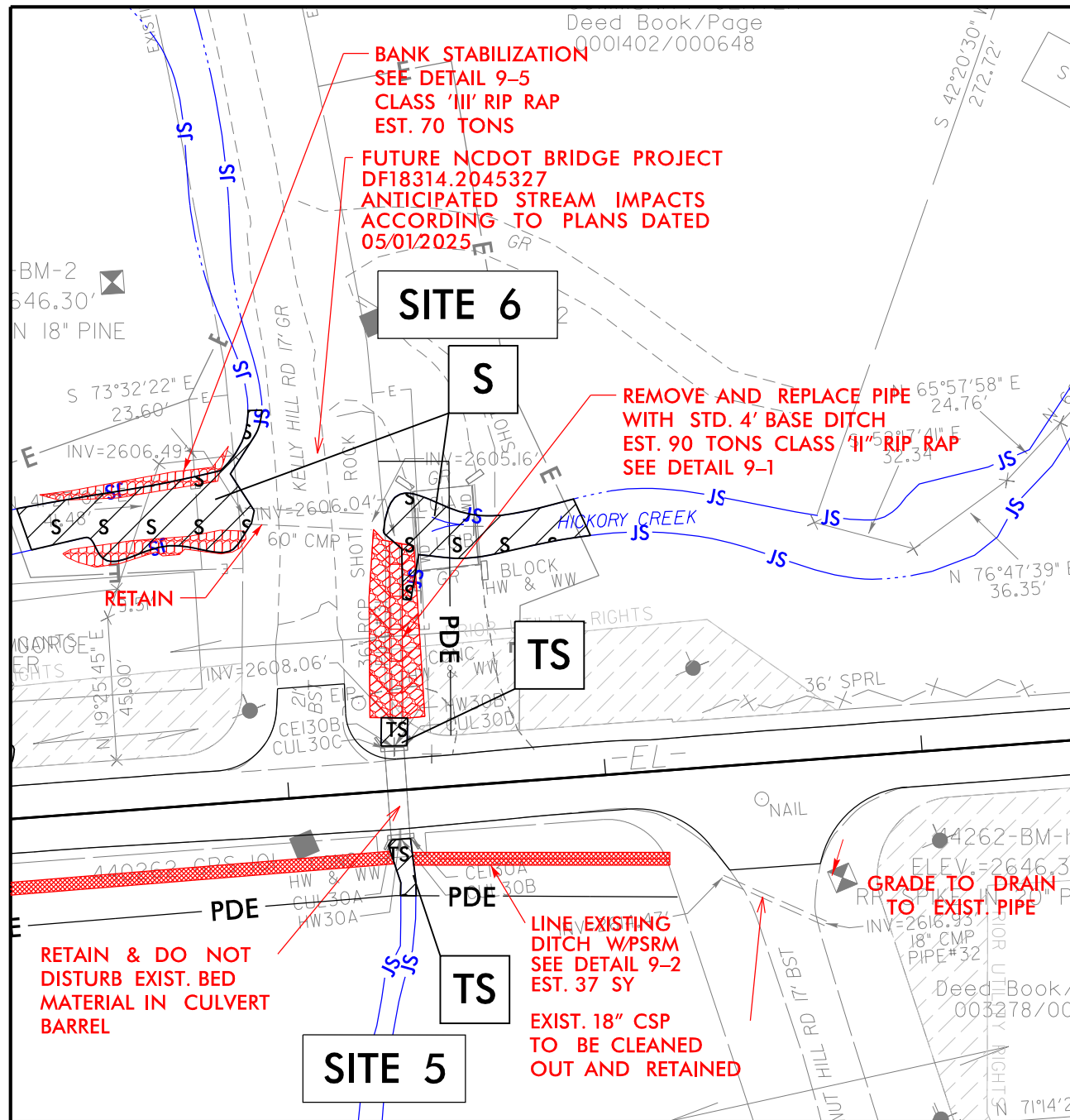
LEGEND



SURFACE WATER IMPACTS

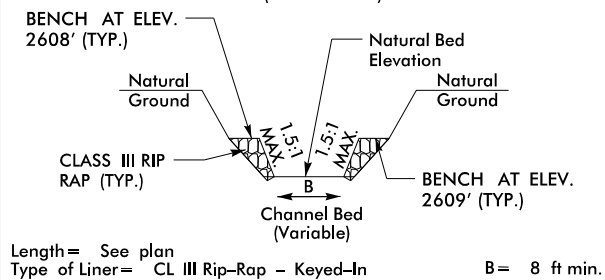


TEMPORARY SURFACE WATER IMPACTS



DETAIL 9-5

CHANNEL BANK STABILIZATION
(Not to Scale)



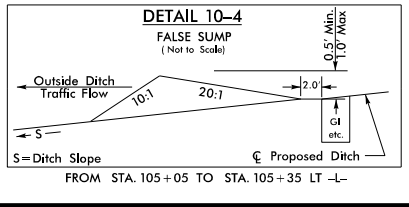
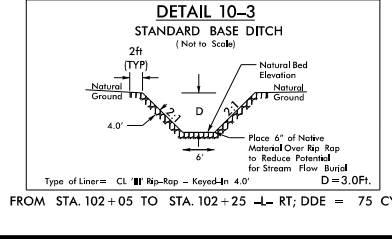
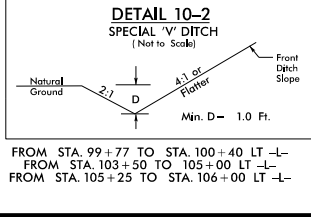
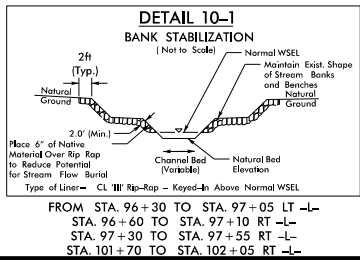
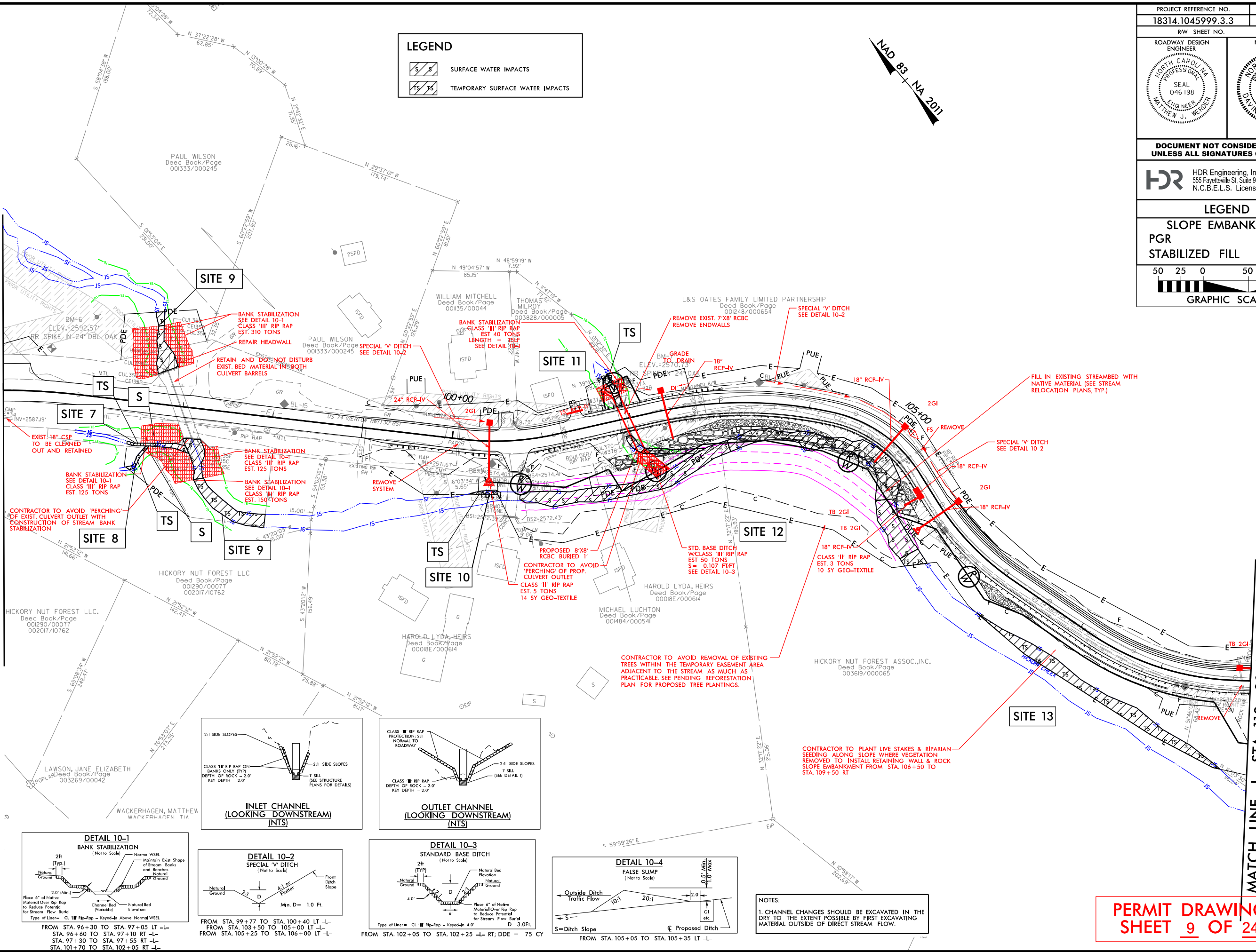
STA. 85+29 TO 95+93 -L- LT

PERMIT DRAWING
SHEET 8 OF 24

REVISIONS

6/2/99

MATCH LINE -L- STA 95+00 SEE SHEET 9

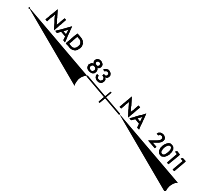


NOTES:
1. CHANNEL CHANGES SHOULD BE EXCAVATED IN THE DRY TO THE EXTENT POSSIBLE BY FIRST EXCAVATING MATERIAL OUTSIDE OF DIRECT STREAM FLOW.

PERMIT DRAWING
SHEET 9 OF 24

LEGEND

	SURFACE WATER IMPACTS
	TEMPORARY SURFACE WATER IMPACTS

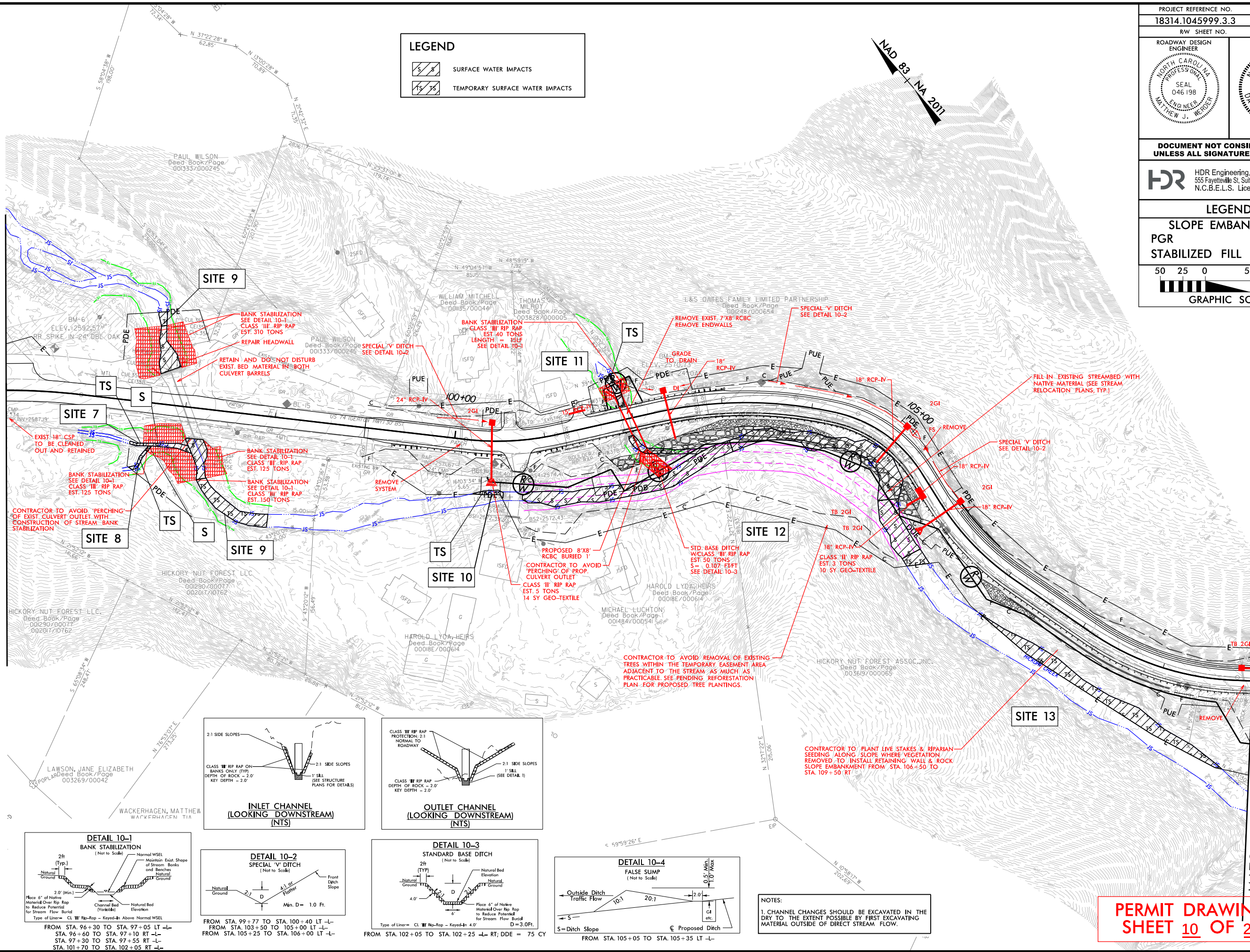


PROJECT REFERENCE NO. 18314.1045999.3.3		SHEET NO. 10	
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ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 		
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LEGEND			
SLOPE EMBANKMENT			
PGR			
STABILIZED FILL			

REVISIONS

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MATCH LINE -L- STA 95+00 SEE SHEET 9



LEGEND

	SURFACE WATER IMPACTS
	TEMPORARY SURFACE WATER IMPACTS

PROJECT REFERENCE NO. 18314.1045999.3.3	SHEET NO. 10
R/W SHEET NO. RW-10	
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LEGEND

SLOPE EMBANKMENT

PGR

STABILIZED FILL

GRAPHIC SCALE

50 25 0 50 100

MATCH LINE -L- STA 110+00 SEE SHEET 11

**PERMIT DRAWING
SHEET 10 OF 24**

NOTES:

1. CHANNEL CHANGES SHOULD BE EXCAVATED IN THE DRY TO THE EXTENT POSSIBLE BY FIRST EXCAVATING MATERIAL OUTSIDE OF DIRECT STREAM FLOW.

REVISIONS

5/14/99

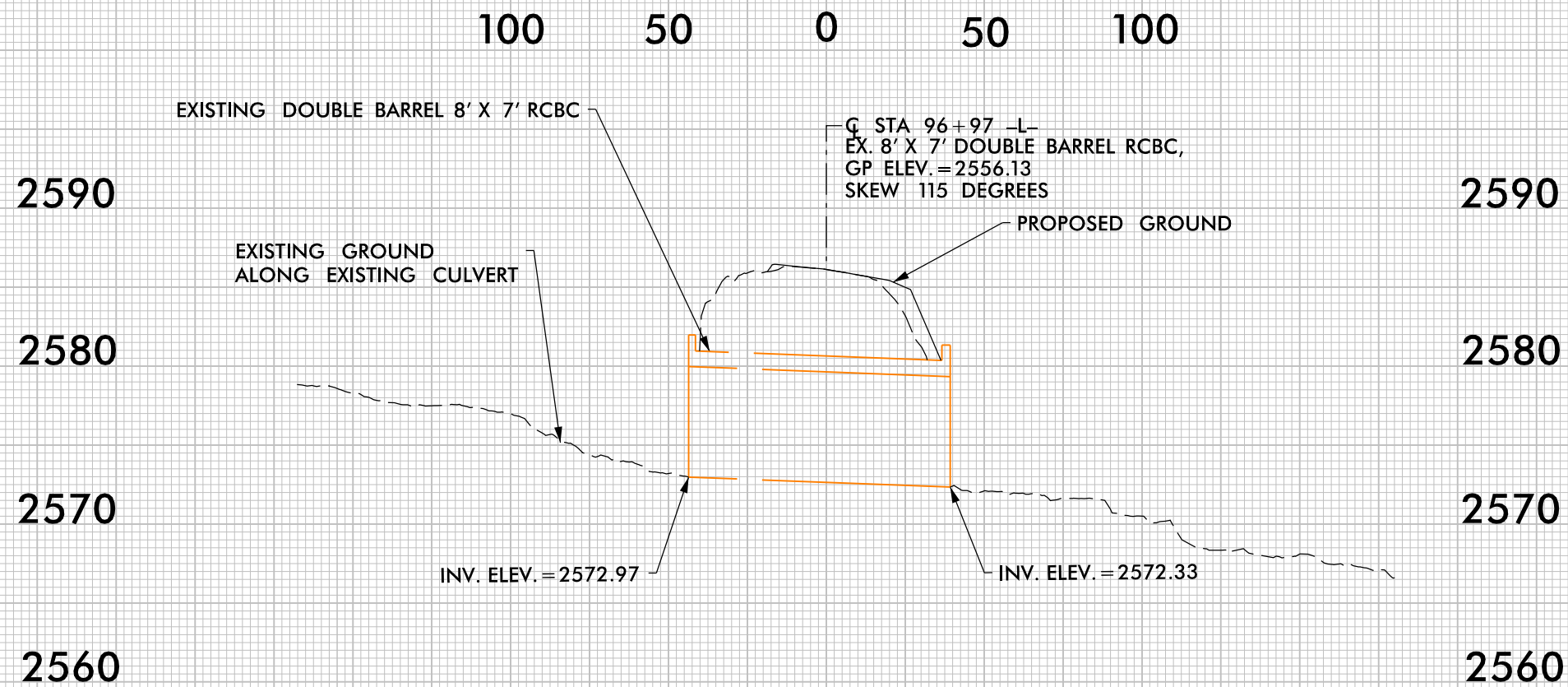


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PROJECT REFERENCE NO.		SHEET NO.
18314.1045039 (WP3)		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
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SCALE:
1" = 25' HORIZONTAL
1" = 5' VERTICAL

SITE 9



PROFILE ALONG CL OF CULVERT

PERMIT DRAWING
SHEET 11 OF 24

REVISIONS

5/14/99

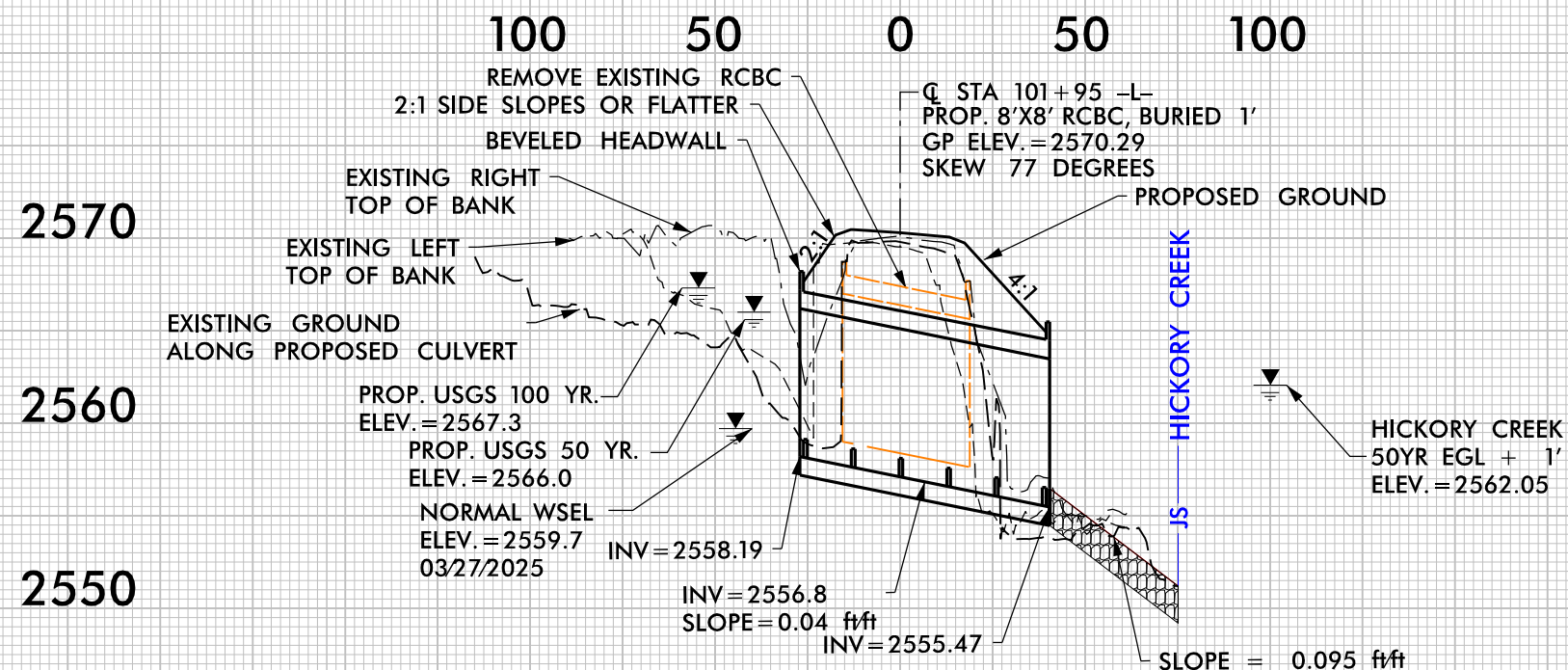


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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.		SHEET NO.
18314.1045039 (WP3)		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

SCALE:
1" = 25' HORIZONTAL
1" = 5' VERTICAL

SITE 11



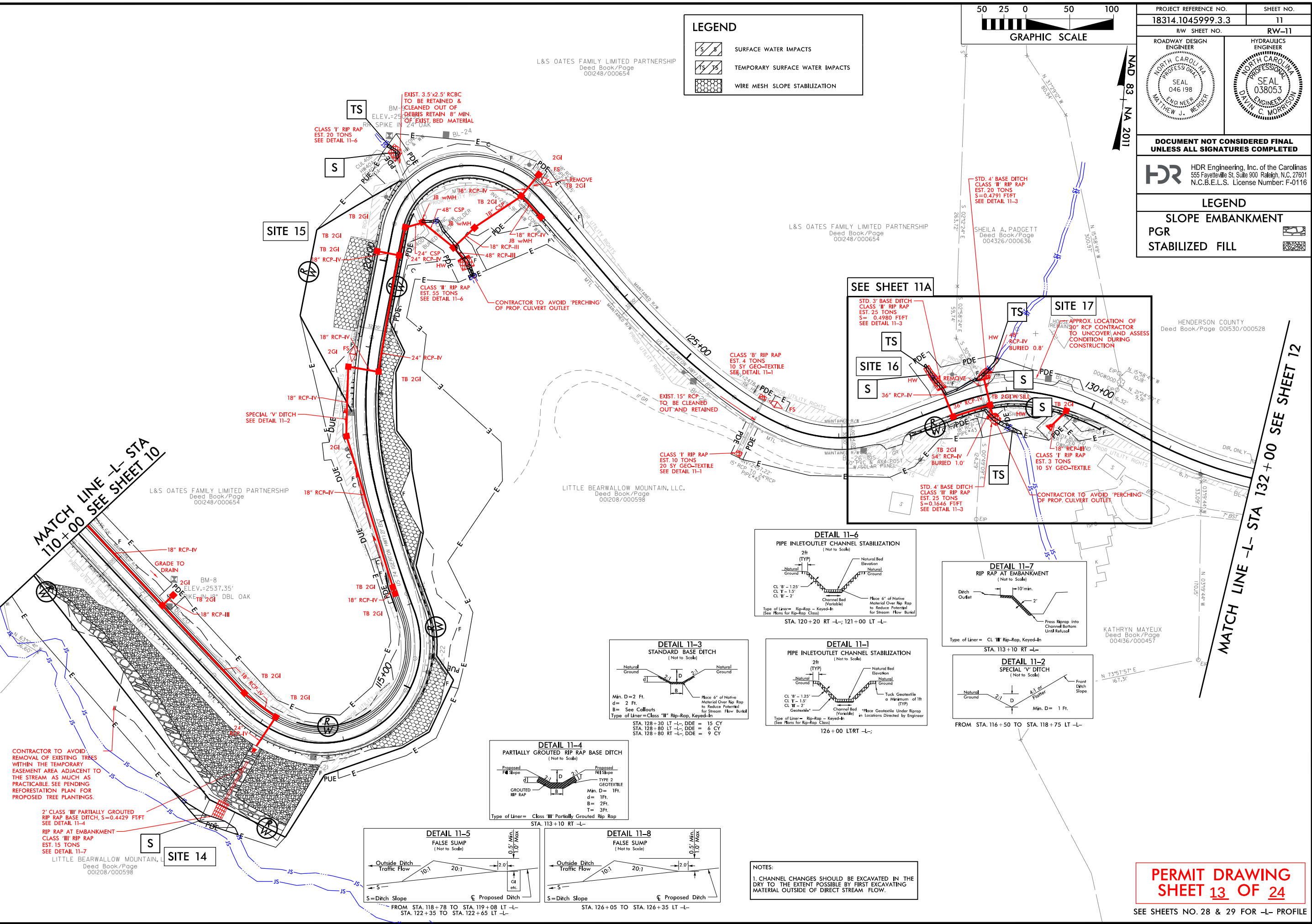
PROFILE ALONG $\bar{C}$ OF CULVERT

PERMIT DRAWING
SHEET 12 OF 24

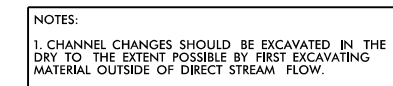
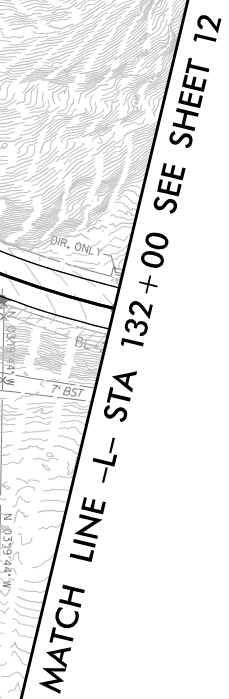
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REVISIONS

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PERMIT DRAWING
SHEET 13 OF 24
SEE SHEETS NO. 28 & 29 FOR -L- PROFILE



PERMIT DRAWING
SHEET 14 OF 24
SEE SHEETS NO. 28 & 29 FOR -L- PROFILE

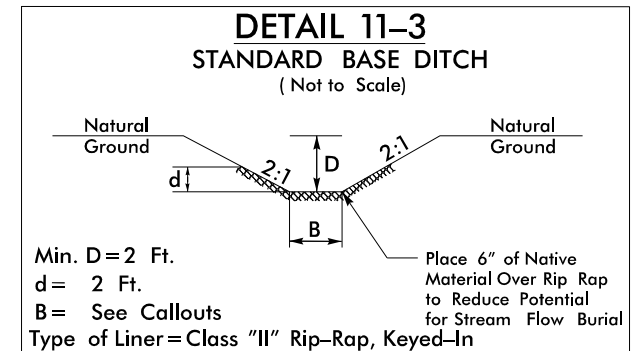
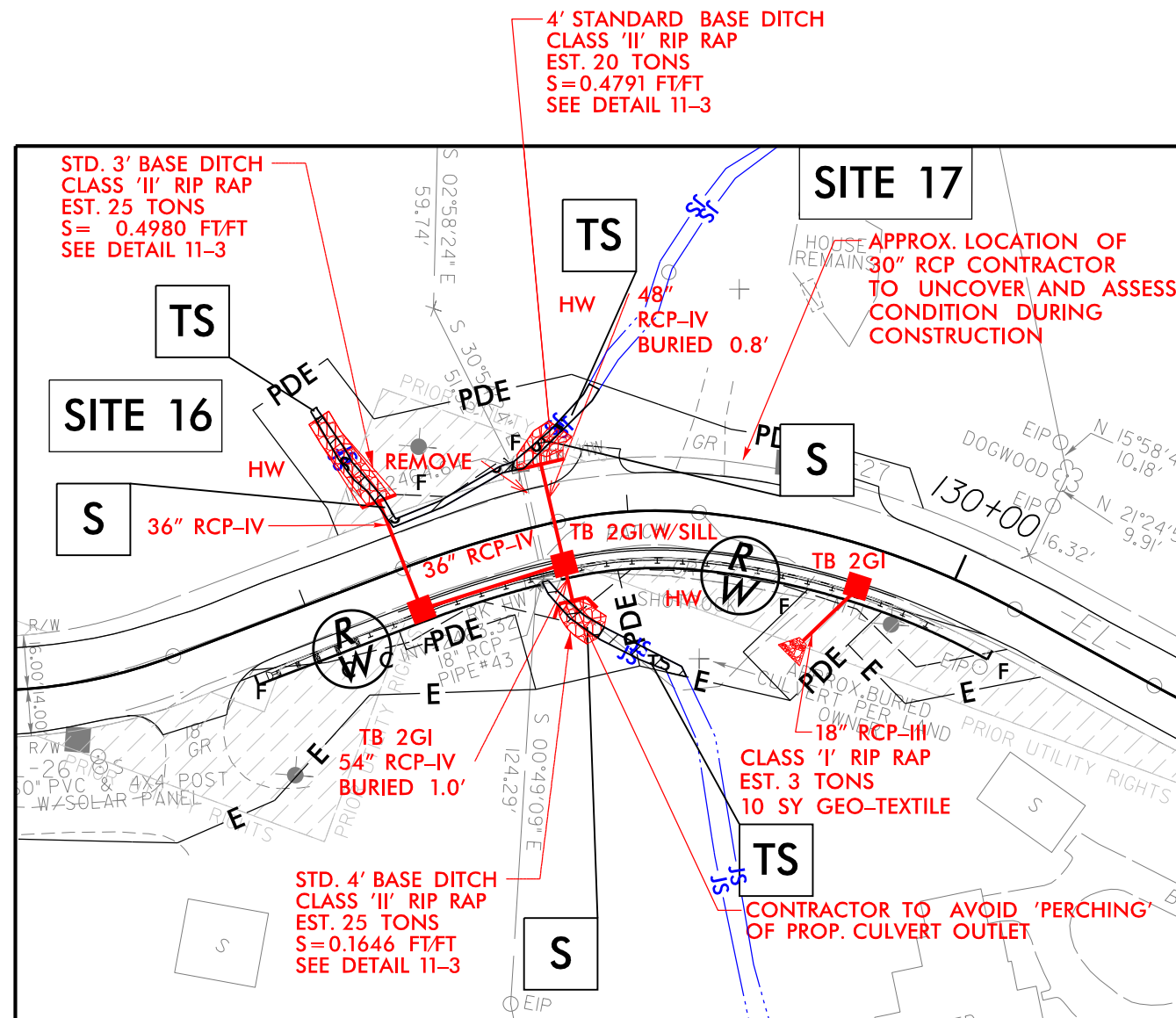
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SURFACE WATER IMPACTS

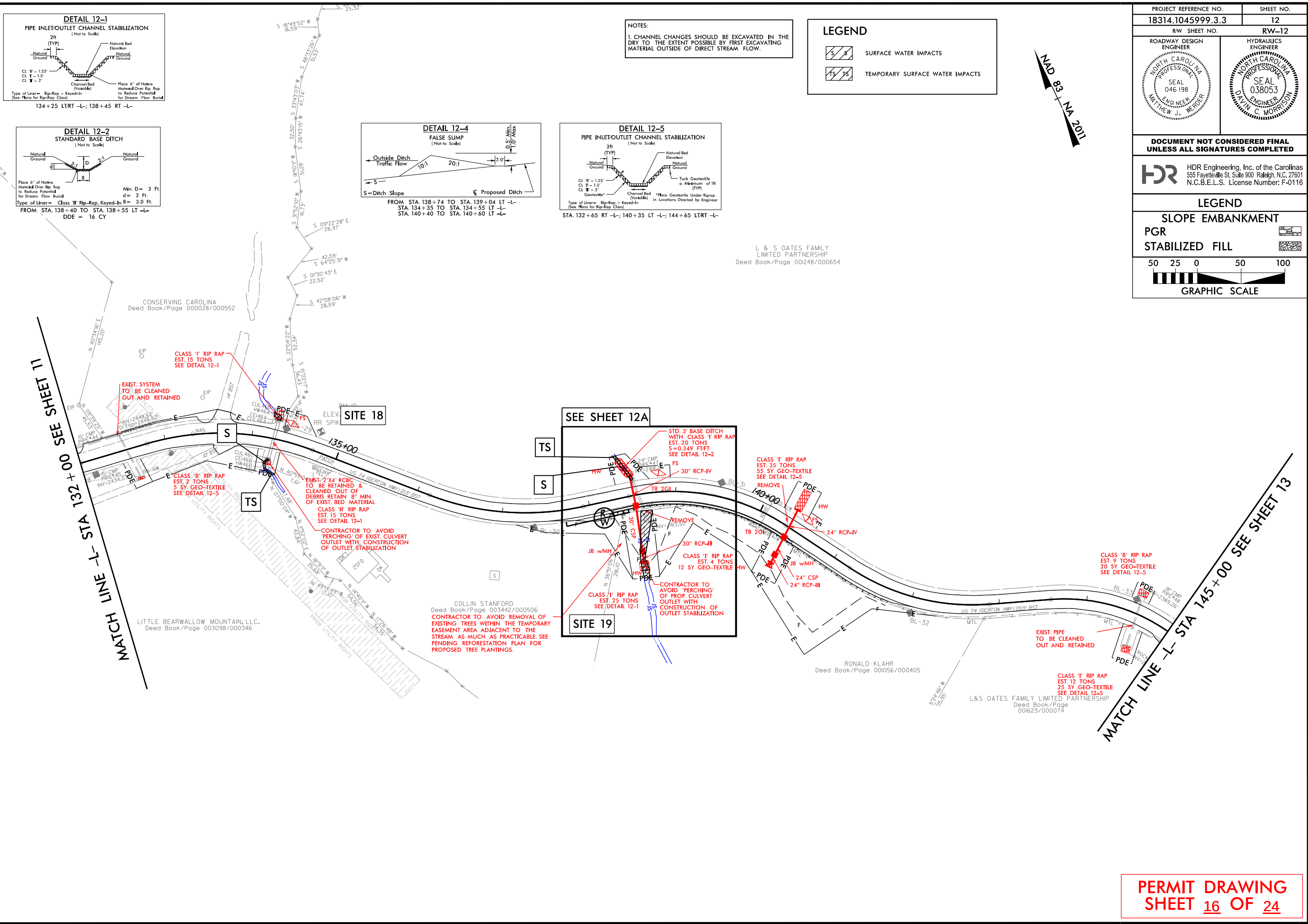


TEMPORARY SURFACE WATER IMPACTS

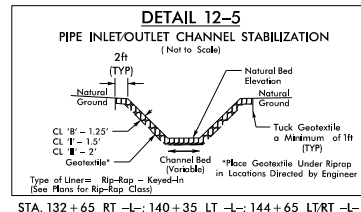
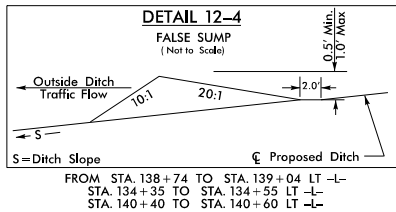
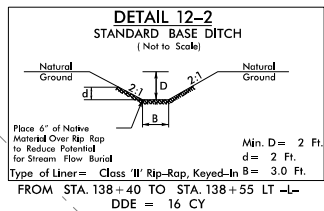
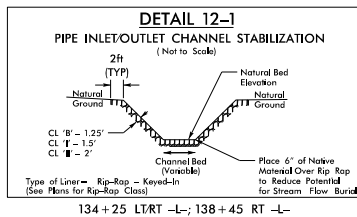


REVISIONS

6/2/99



6/2/99



NOTES:

1. CHANNEL CHANGES SHOULD BE EXCAVATED IN THE DRY TO THE EXTENT POSSIBLE BY FIRST EXCAVATING MATERIAL OUTSIDE OF DIRECT STREAM FLOW.

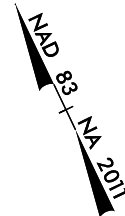
LEGEND



SURFACE WATER IMPACTS



TEMPORARY SURFACE WATER IMPACTS



PROJECT REFERENCE NO.	SHEET NO.
18314.1045999.3.3	12
RW/ SHEET NO.	RW-12
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

**DOCUMENT NOT CONSIDERED FINAL
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N.C.B.E.L.S. License Number: F-0116

LEGEND

SLOPE EMBANKMENT

PGR

STABILIZED FILL



50 25 0 50 100

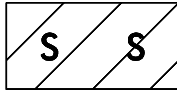
GRAPHIC SCALE



11
SEE SHEET
STA 132+00
MATCH LINE L-
TO
OUT

PERMIT DRAWING
SHEET 17 OF 24

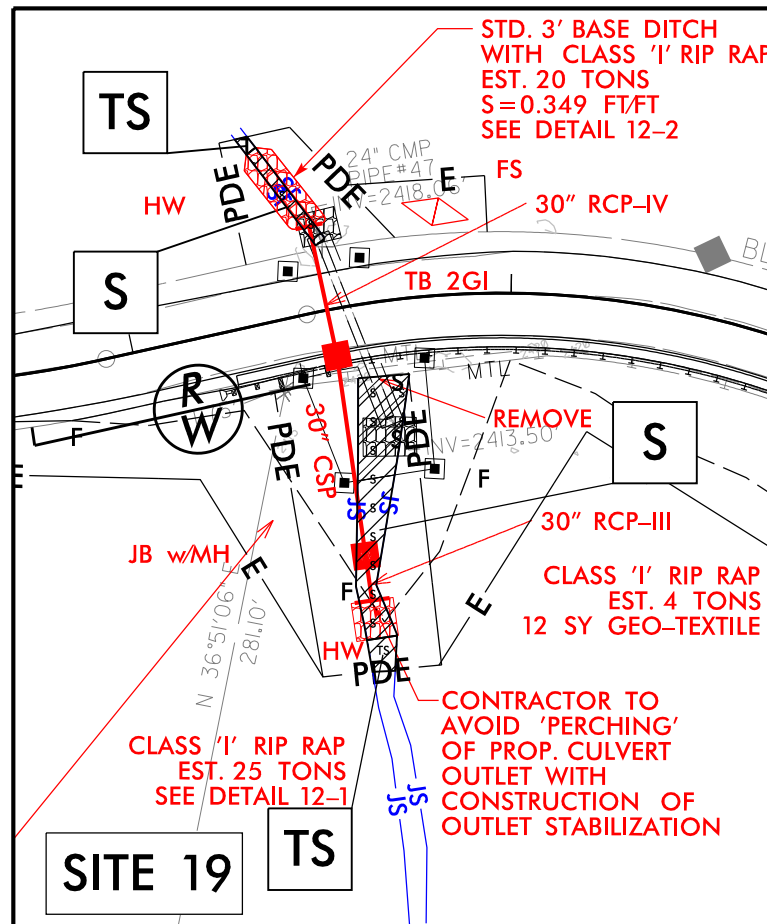
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SURFACE WATER IMPACTS



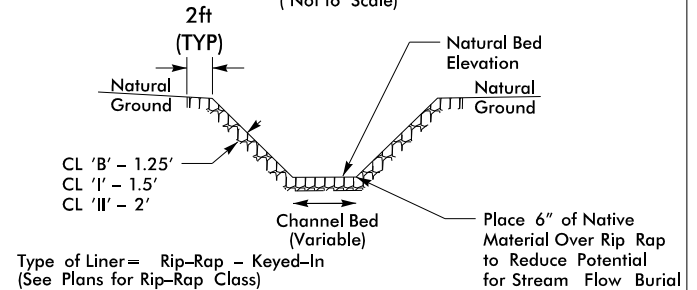
TEMPORARY SURFACE WATER IMPACTS



DETAIL 12-1

PIPE INLET/OUTLET CHANNEL STABILIZATION

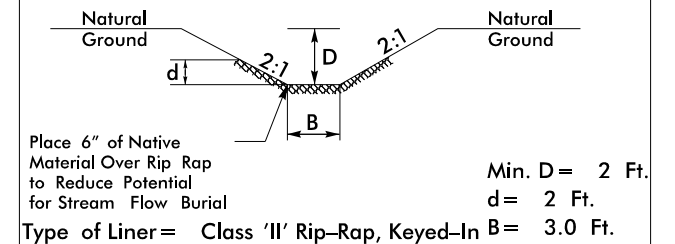
(Not to Scale)



DETAIL 12-2

STANDARD BASE DITCH

(Not to Scale)



6/2/2024

LEGEND	
SLOPE EMBANKMENT	
PGR	
STABILIZED FILL	

50 25 0 50 100

GRAPHIC SCALE

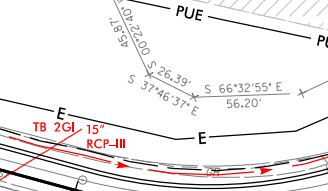
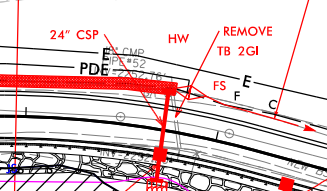
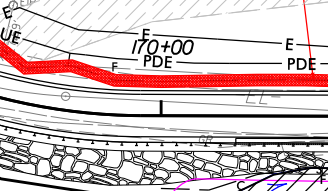
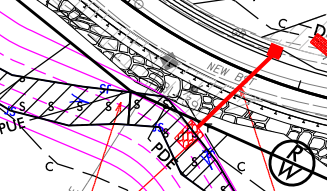
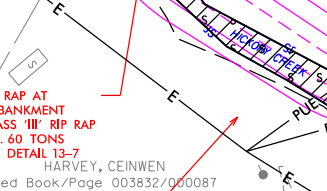
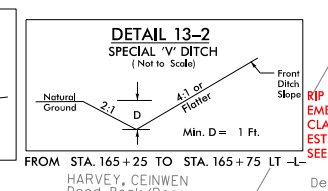
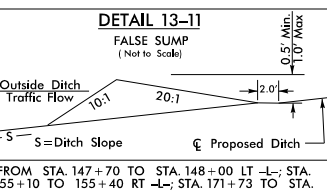
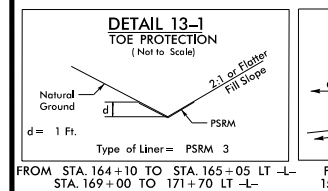
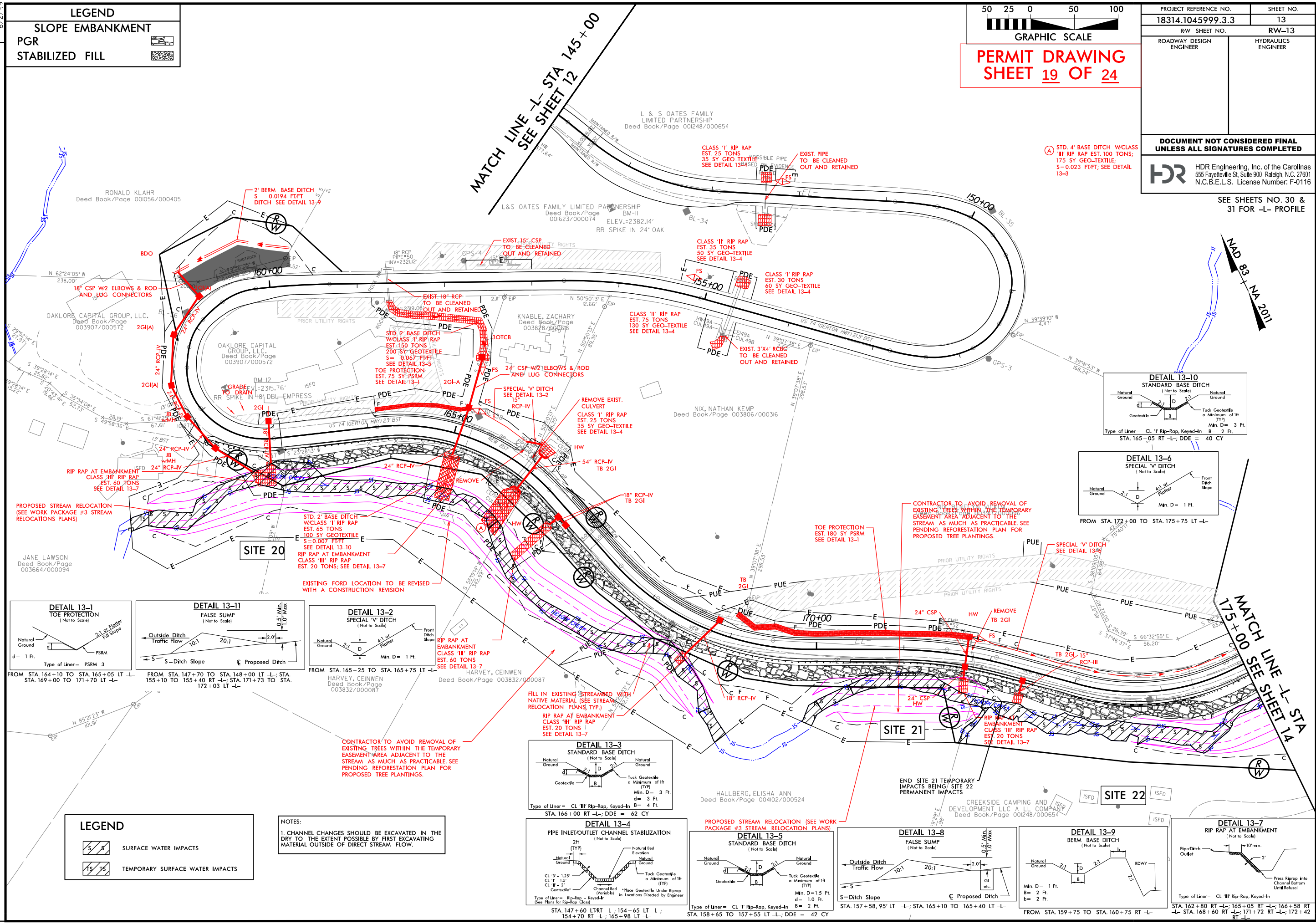
PERMIT DRAWING
SHEET 19 OF 24

PROJECT REFERENCE NO.	SHEET NO.
18314.1045999.3.3	13
R/W SHEET NO.	RW-13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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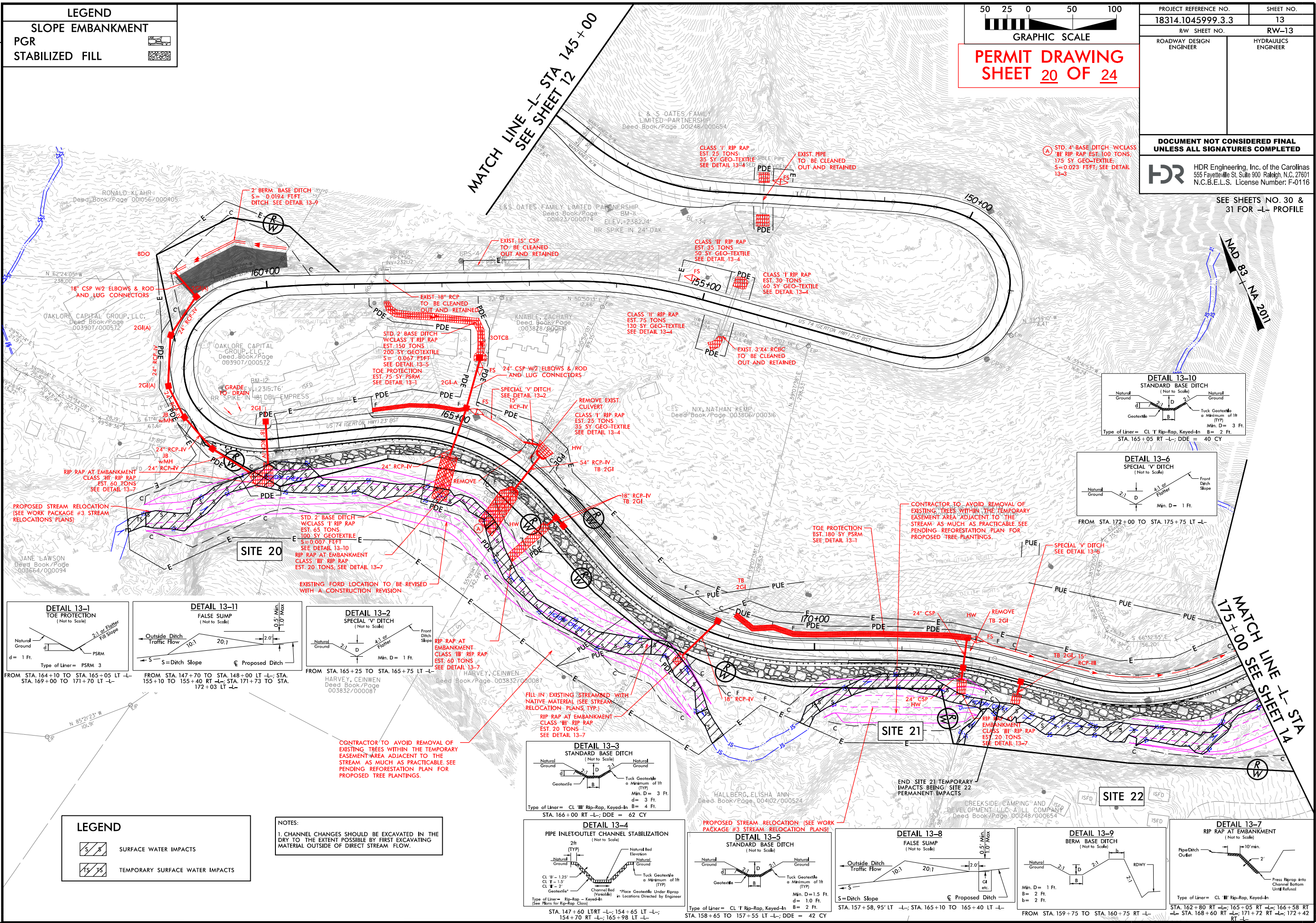
SEE SHEETS NO. 30 &
31 FOR -L- PROFILE



LEGEND	
	SURFACE WATER IMPACTS
	TEMPORARY SURFACE WATER IMPACTS

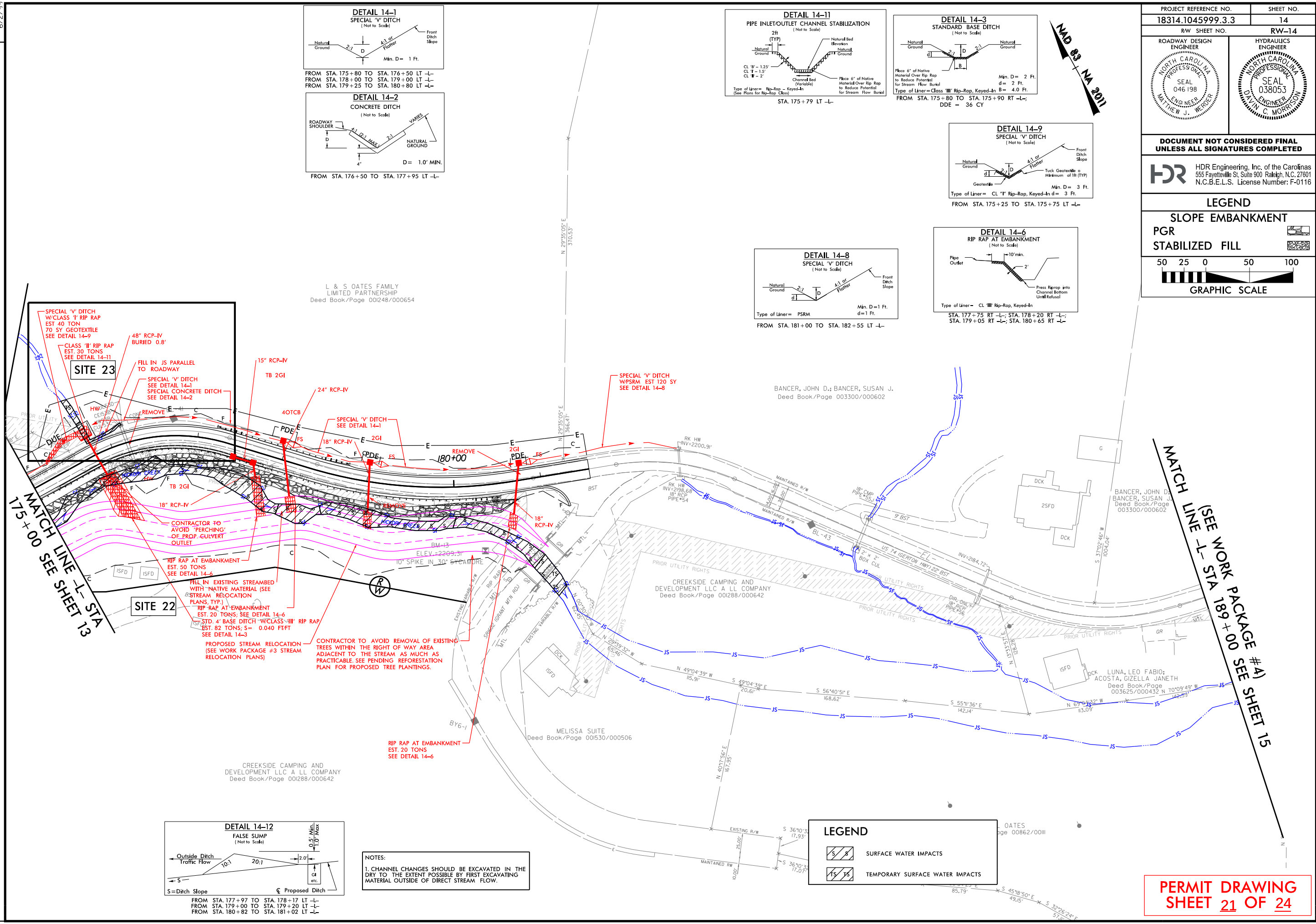
NOTES:
1. CHANNEL CHANGES SHOULD BE EXCAVATED IN THE DRY TO THE EXTENT POSSIBLE BY FIRST EXCAVATING MATERIAL OUTSIDE OF DIRECT STREAM FLOW.

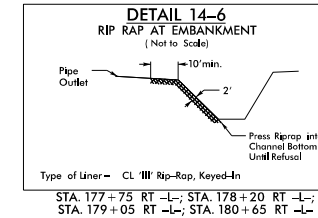
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REVISIONS

6/2/2026





LEGEND

SLOPE EMBANKMENT	
PGR	
STABILIZED FILL	

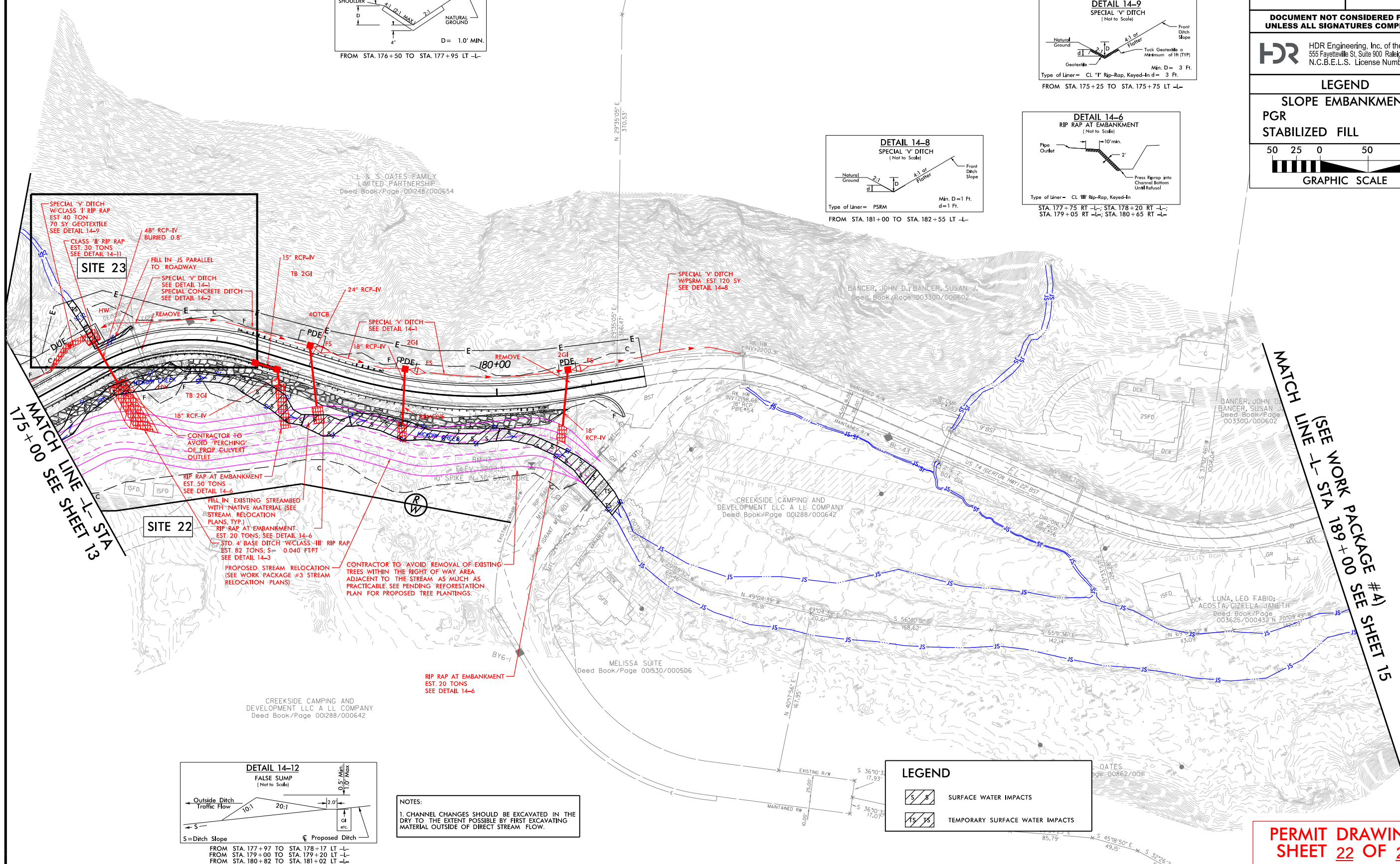
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50 100



GRAPHIC SCALE



PERMIT DRAWING
SHEET 22 OF 24

REVISIONS

6/2/99

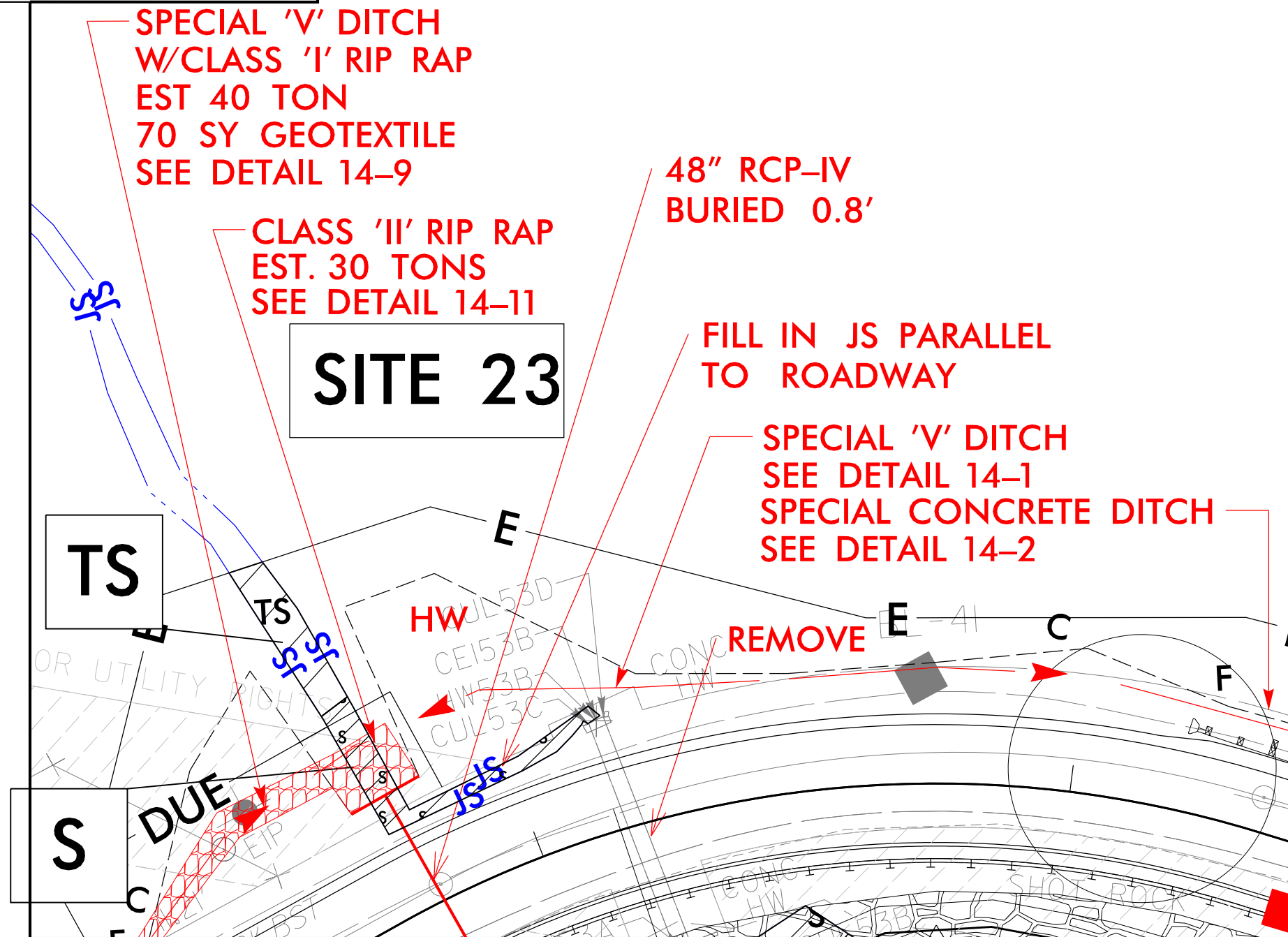
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SURFACE WATER IMPACTS



TEMPORARY SURFACE WATER IMPACTS



PROJECT REFERENCE NO.		SHEET NO.	
18314.1045039 (WP3)		14A	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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 GRAPHIC SCALE			

WETLAND AND SURFACE WATER IMPACTS SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	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- 67+33 - 67+65	Bank Stabilization Hickory Creek						0.02	< 0.01	61	35	
1	-L- 67+09 - 67+39	Bank Stabilization UT to Hickory Creek						< 0.01		34		
2	-L- 72+82	18" CSP							< 0.01		3	
3	-L- 77+74 - 79+21	Bank Stabilization/Future bridge project impacts						0.04	0.02	65	53	
3	-L- 79+21- 83+75	Hickory Creek Relocation						0.07		276		
3	-L- 79+21- 83+75	Hickory Creek Reestablishing						0.05	< 0.01	157	22	
4	-L- 80+15 - 81+98	Temp Construction Easement/ Stream Relocation			< 0.01		0.06		< 0.01		86	
5	-L- 86+35 RT	6' X4' Culvert							< 0.01		27	
6	-L- 85+21 - 87+00 LT	Hickory Creek/Daylight Stream/Future bridge project impacts						0.05		135		
7	-L- 96+42 - 97+10 RT	Bank Stabilization						< 0.01	< 0.01	52	15	
8	-L- 96+47 - 96+65 RT	Bank Stabilization						< 0.01	< 0.01	7	28	
9	-L- 96+96	Bank Stabilization						0.03	0.03	97	31	
10	-L- 100+40	Hickory Creek/PDE							< 0.01		28	
11	-L- 101+78 - 102+77	8'X8' RCBC						0.01		87		
11	-L- 101+78 - 102+77	Bank Stabilization						< 0.01	< 0.01	17	8	
12	-L- 100+70 -106+22	Hickory Creek Relocation/Temp Construction Easement						0.08		221		
12	-L- 100+70 -106+22	Hickory Creek Reestablishing						0.12	< 0.01	310	14	
13	-L- 106+98 - 109+73	Temporary Contractor Access Point							0.08		320	
14	-L- 113+05 - 113+24	Bank Stabilization						0.01		93		
15	-L- 120+98 - 120+12	Pipe Inlet/Outlet Channel Stabilization						< 0.01	0.01	28	15	
15	-L- 120+85	48" CSP						< 0.01		71		
16	-L- 126+81 - 128+71	36" RCP						< 0.01	< 0.01	78	3	
17	-L- 128+69 - 128+90	48" RCP-IV						< 0.01	< 0.01	40	42	
18	-L- 134+25	Ex. 2'X4' RCBC/ Channel Realignment						< 0.01	< 0.01	17	18	
19	-L- 138+52	36" RCP/30" CSP						0.02	< 0.01	99	14	
20	-L- 162+17 - 169+14	Hickory Creek Relocation						0.09		250		
20	-L- 162+17 - 169+14	Hickory Creek Reestablishing						0.20	0.02	524	59	
21	-L- 169+92 - 172+46	Hickory Creek Relocation						0.04		106		
21	-L- 169+92 - 172+46	Hickory Creek Reestablishing						0.03	0.01	92	47	
21	-L- 171+86-172+08	UT to Hickory Creek							< 0.01		50	
22	-L- 173+40 - 180+79	Hickory Creek Relocation						0.16		492		
22	-L- 173+40 - 180+79	Hickory Creek Reestablishing						0.15	0.02	434	76	
23	-L- 175+80	48" RCP-IV						< 0.01	< 0.01	23	31	
TOTALS*:					< 0.01		0.06	1.20	0.24	3866	1026	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
JUNE 2026
HENDERSON COUNTY
18314.1045039
GERTON HWY - US 74