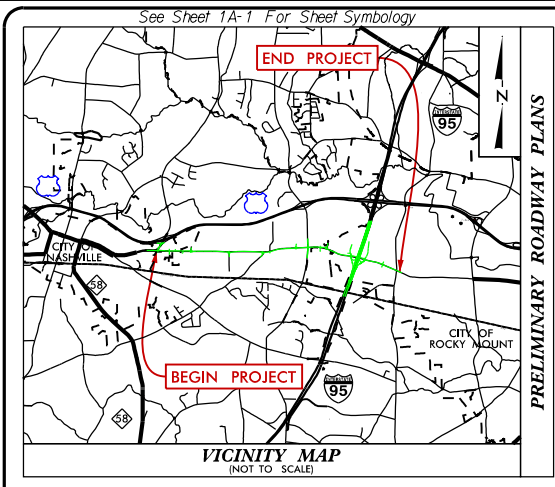


09/08/99

**TIP PROJECT: U-5026/R-5720**

**CONTRACT: C204412**

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DATE: 3/26/2020  
TIME: 11:52:53 AM



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

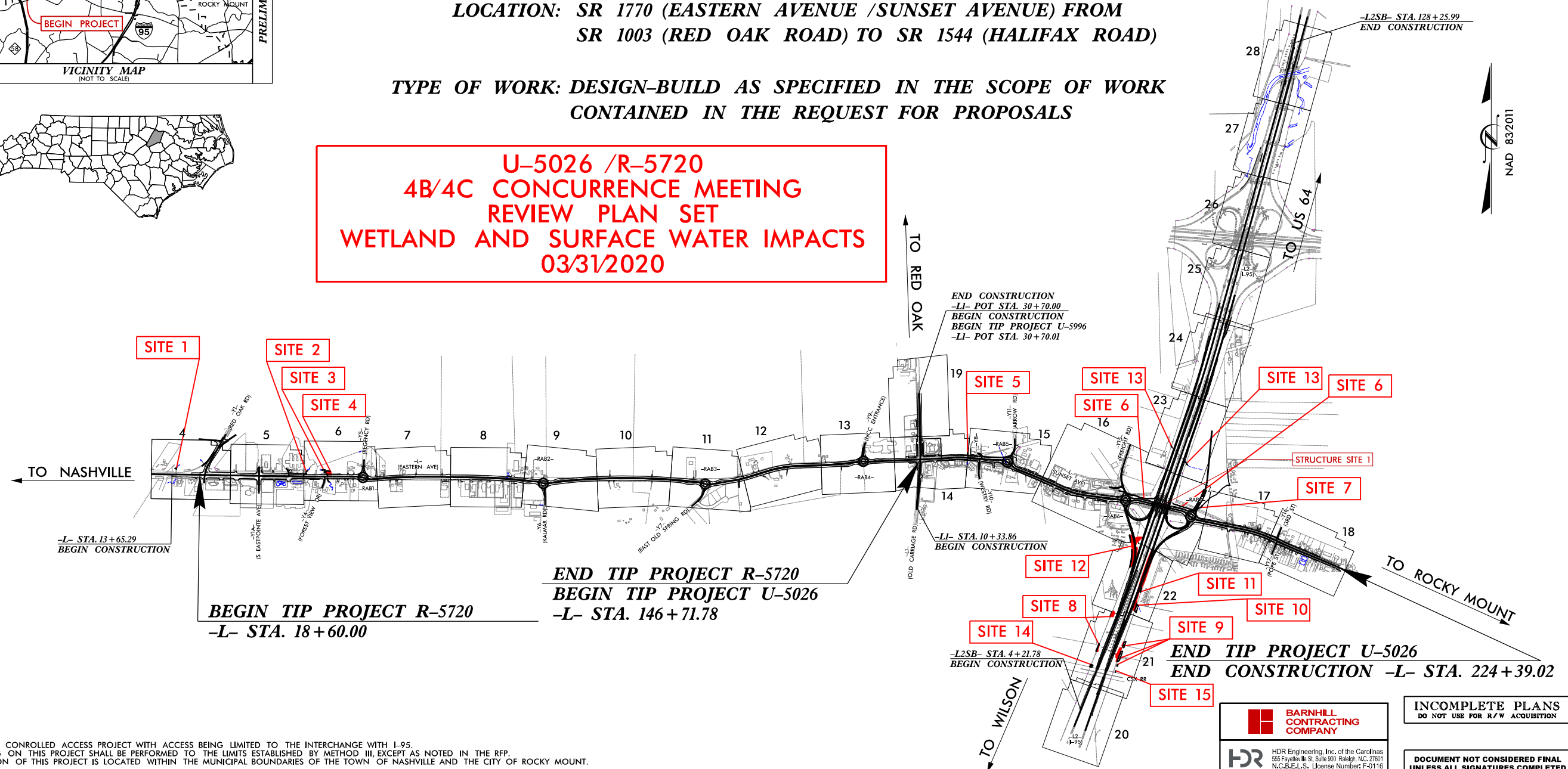
## NASH COUNTY

PERMIT DRAWING SHEET <u>  </u> OF <u>  </u>	STATE N.C.	STATE PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 1	TOTAL SHEETS
	STATE PROJ. NO. 44033.3.3	F.A. PROJ. NO. N/A	DESCRIPTION P.E., RW, UTIL. CONST.	

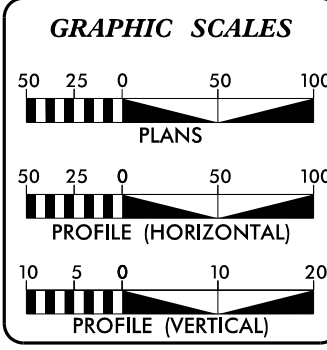
**LOCATION: SR 1770 (EASTERN AVENUE /SUNSET AVENUE) FROM  
SR 1003 (RED OAK ROAD) TO SR 1544 (HALIFAX ROAD)**

**TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK  
CONTAINED IN THE REQUEST FOR PROPOSALS**

**U-5026 /R-5720  
4B/4C CONCURRENCE MEETING  
REVIEW PLAN SET  
WETLAND AND SURFACE WATER IMPACTS  
03/31/2020**



NOTES:  
THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE INTERCHANGE WITH I-95.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III, EXCEPT AS NOTED IN THE RFP.  
A PORTION OF THIS PROJECT IS LOCATED WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF NASHVILLE AND THE CITY OF ROCKY MOUNT.



**DESIGN DATA**

ADT 2019 =	17,311
ADT 2040 =	26,100
K =	10 %
D =	60 %
T =	3 % *
V =	50 MPH
* TTST =	1% DUAL = 2%
FUNC CLASS =	RURAL ARTERIAL & URBAN ARTERIAL

**PROJECT LENGTH**

LENGTH ROADWAY -L- (SR 1770) =	2.426 MILES (R-5720)
LENGTH ROADWAY -L- (SR 1770) =	1.414 MILES (U-5026)
LENGTH STRUCTURES -L- (SR 1770) =	0.057 MILES (U-5026)
LENGTH ROADWAY -L1- (SR 1603) =	0.386 MILES
LENGTH ROADWAY -L2SB- (I-95) =	2.349 MILES
TOTAL LENGTH TIP PROJECT U-5026 /R-5720 =	6.632 MILES

NCDOT CONTACT: RACHEL EVANS, PE  
DIVISION PROJECT ENGINEER

Prepared for the Office of:  
**DIVISION OF HIGHWAYS**  
1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS	WARREN LAMB, PE PROJECT ENGINEER
RIGHT OF WAY DATE: OCTOBER 15, 2019	PAUL ROBBINS, PE PROJECT DESIGN ENGINEER
LETTING DATE: OCTOBER 15, 2019	

**HYDRAULICS ENGINEER**

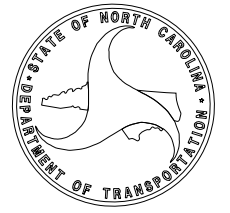
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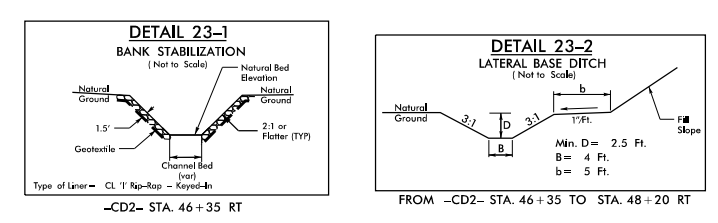
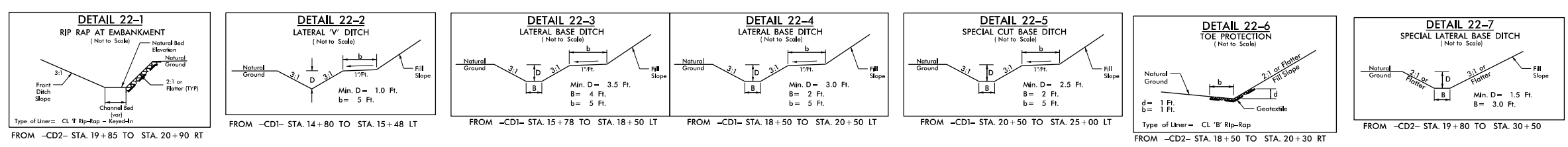
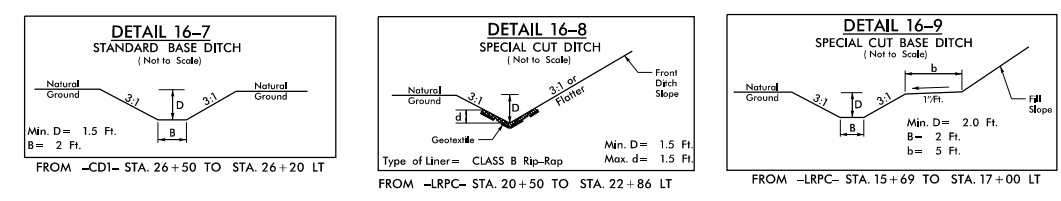
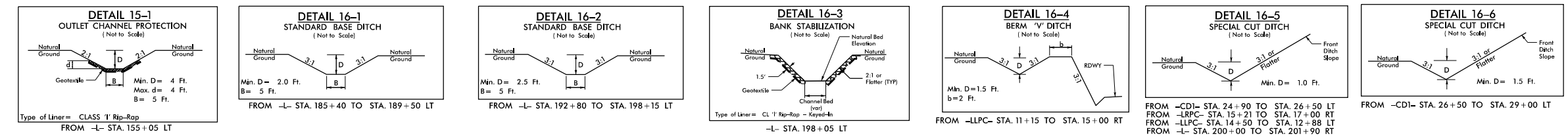
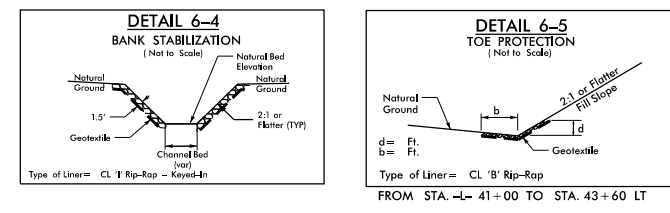
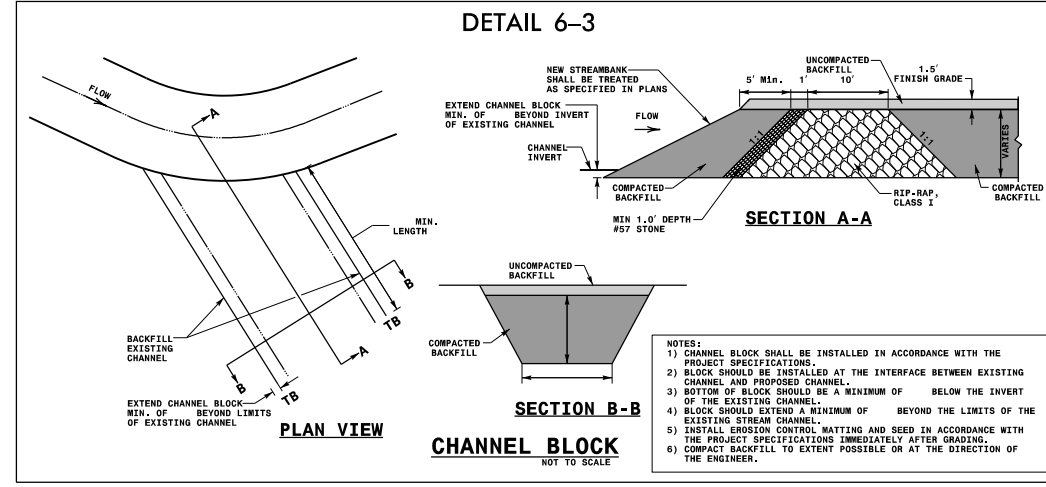
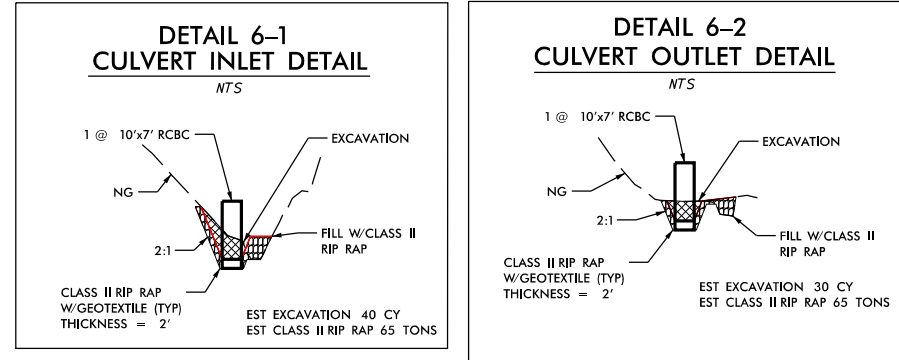
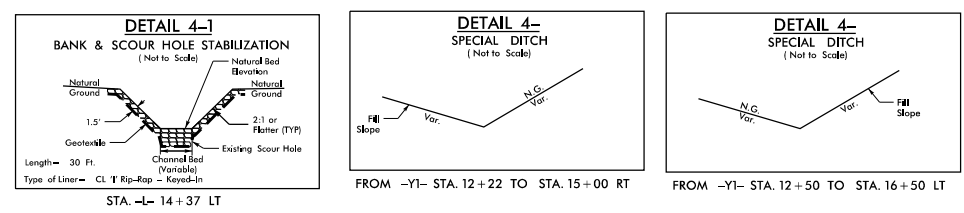
**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION**

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



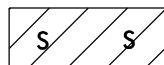


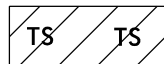
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 REVISIONS  
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 TIME: 11:34:39 AM  
 DATE: 3/26/2020

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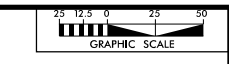
REVISIONS

**LEGEND**


**DENOTES IMPACTS IN SURFACE WATER**


**DENOTES TEMPORARY IMPACTS IN SURFACE WATER**

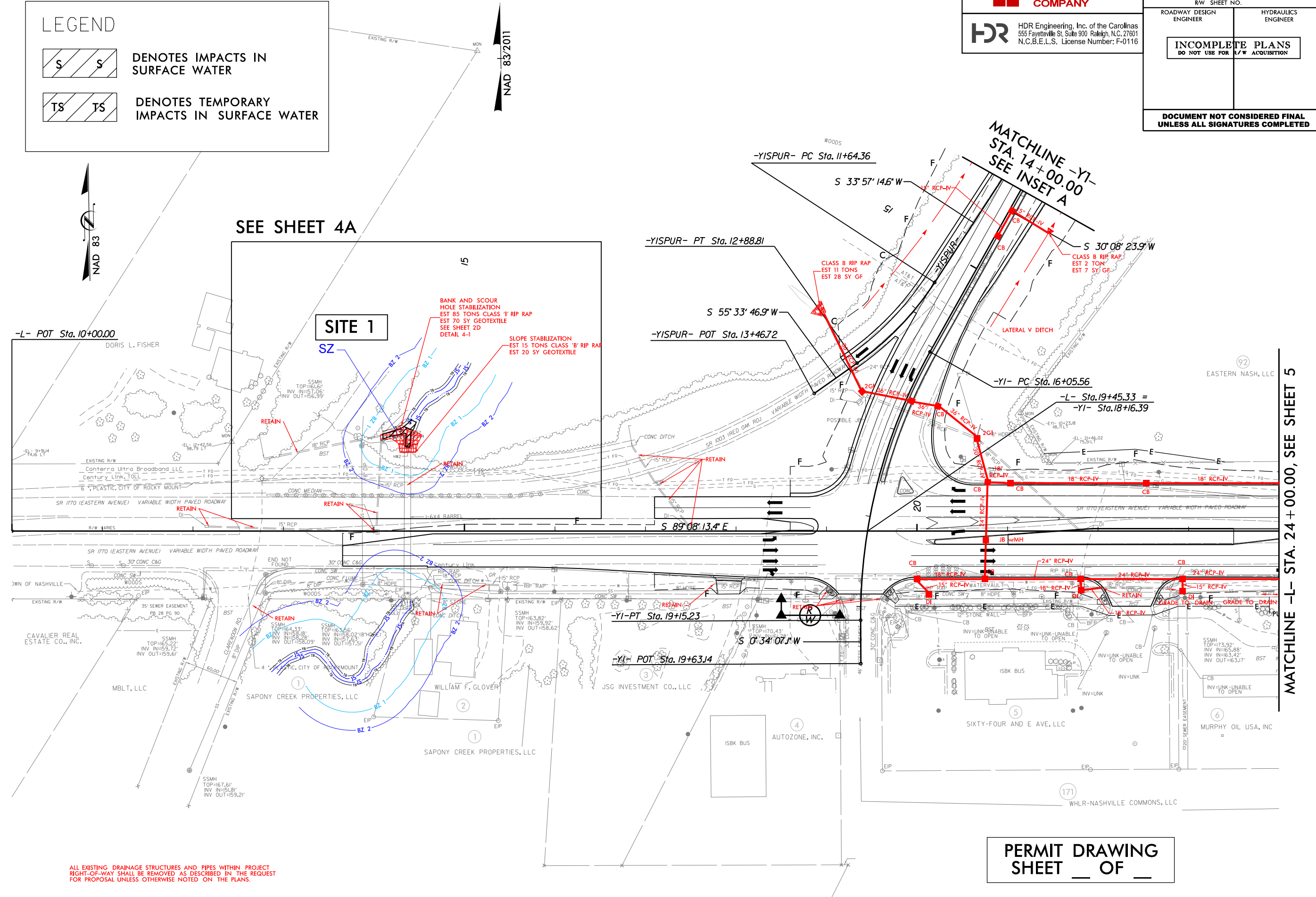
SEE SHEET 24 FOR -L- PROFILE  
SEE SHEET 41 FOR -YI- PROFILE



**BARNHILL CONTRACTING COMPANY**

**HDR** HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. <b>U-5026 /R-5720</b>	SHEET NO. <b>4</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

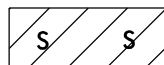
**PERMIT DRAWING**  
SHEET      OF     

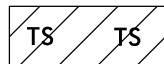
MATCHLINE -L- STA. 24+00.00, SEE SHEET 5

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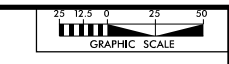
REVISIONS

**LEGEND**

 DENOTES IMPACTS IN SURFACE WATER

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

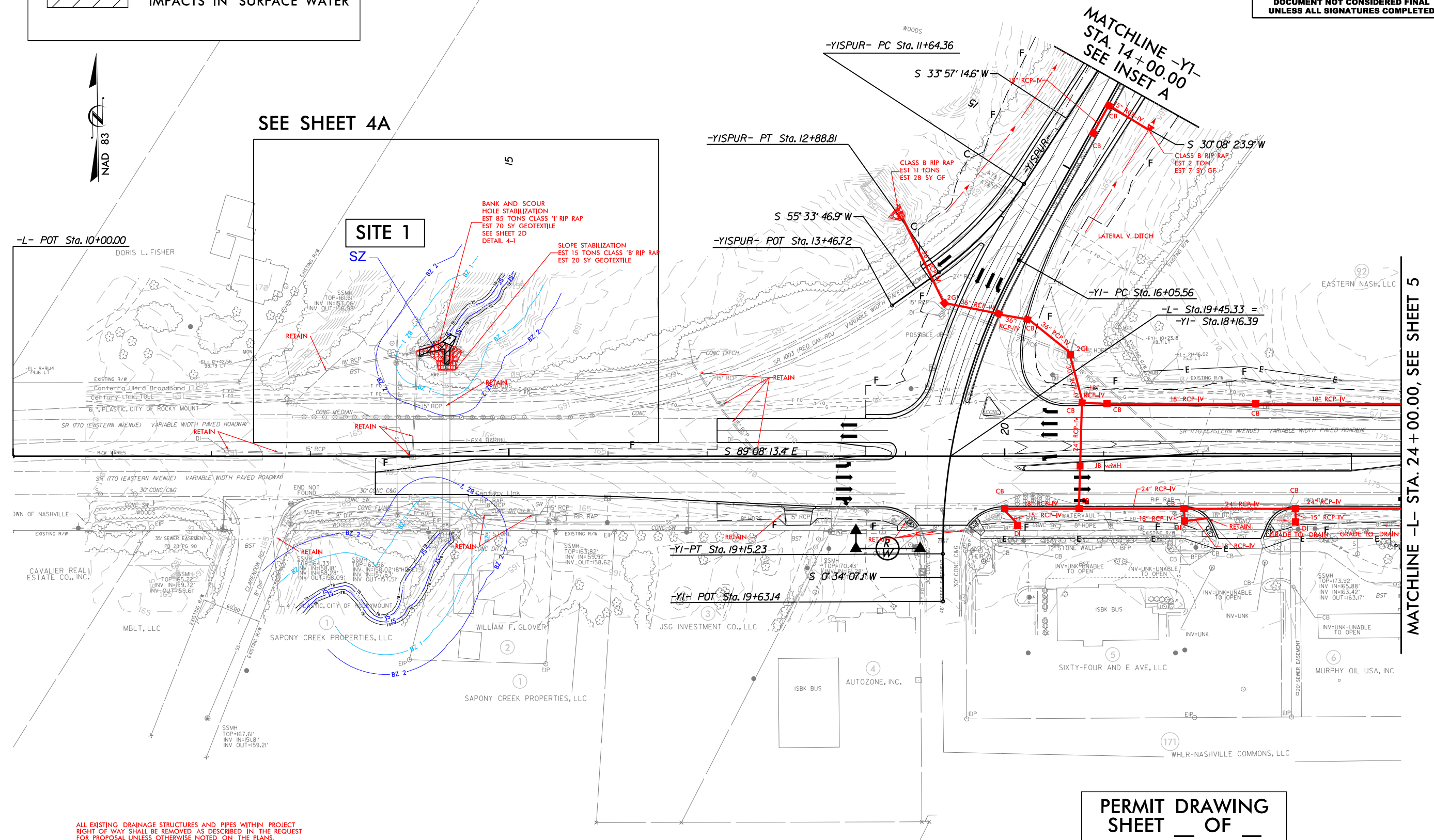
SEE SHEET 24 FOR -L- PROFILE  
 SEE SHEET 41 FOR -YI- PROFILE



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 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
 N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

PERMIT DRAWING  
 SHEET \_\_\_ OF \_\_\_

MATCHLINE -L- STA. 24 + 00.00, SEE SHEET 5

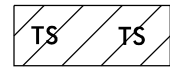
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REVISIONS

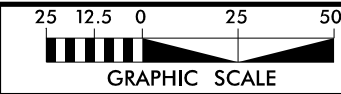
LEGEND



DENOTES IMPACTS IN SURFACE WATER

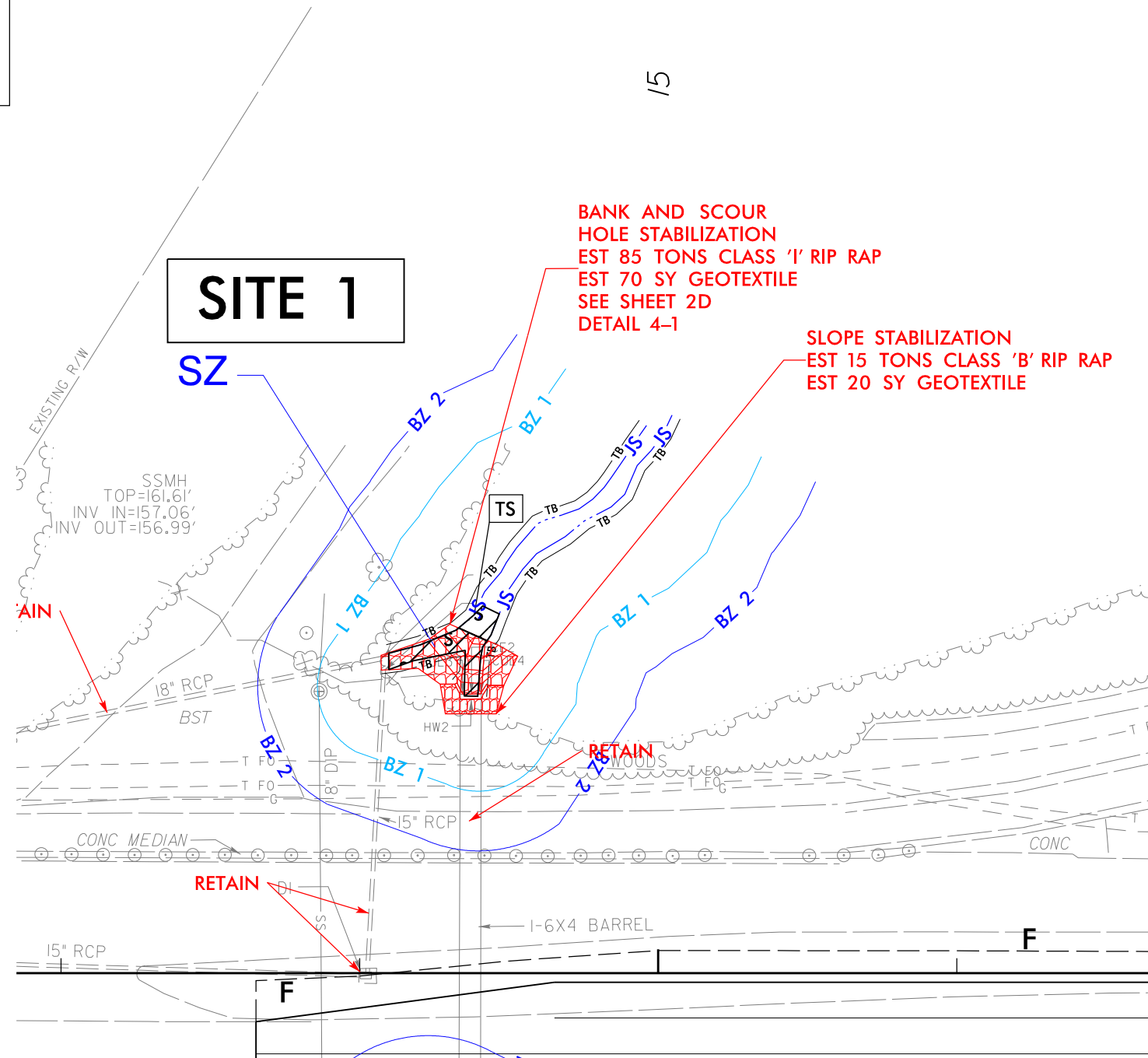


DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 4A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

NAD 83/2011



**SITE 1**

BANK AND SCOUR  
HOLE STABILIZATION  
EST 85 TONS CLASS 'I' RIP RAP  
EST 70 SY GEOTEXTILE  
SEE SHEET 2D  
DETAIL 4-1

SLOPE STABILIZATION  
EST 15 TONS CLASS 'B' RIP RAP  
EST 20 SY GEOTEXTILE

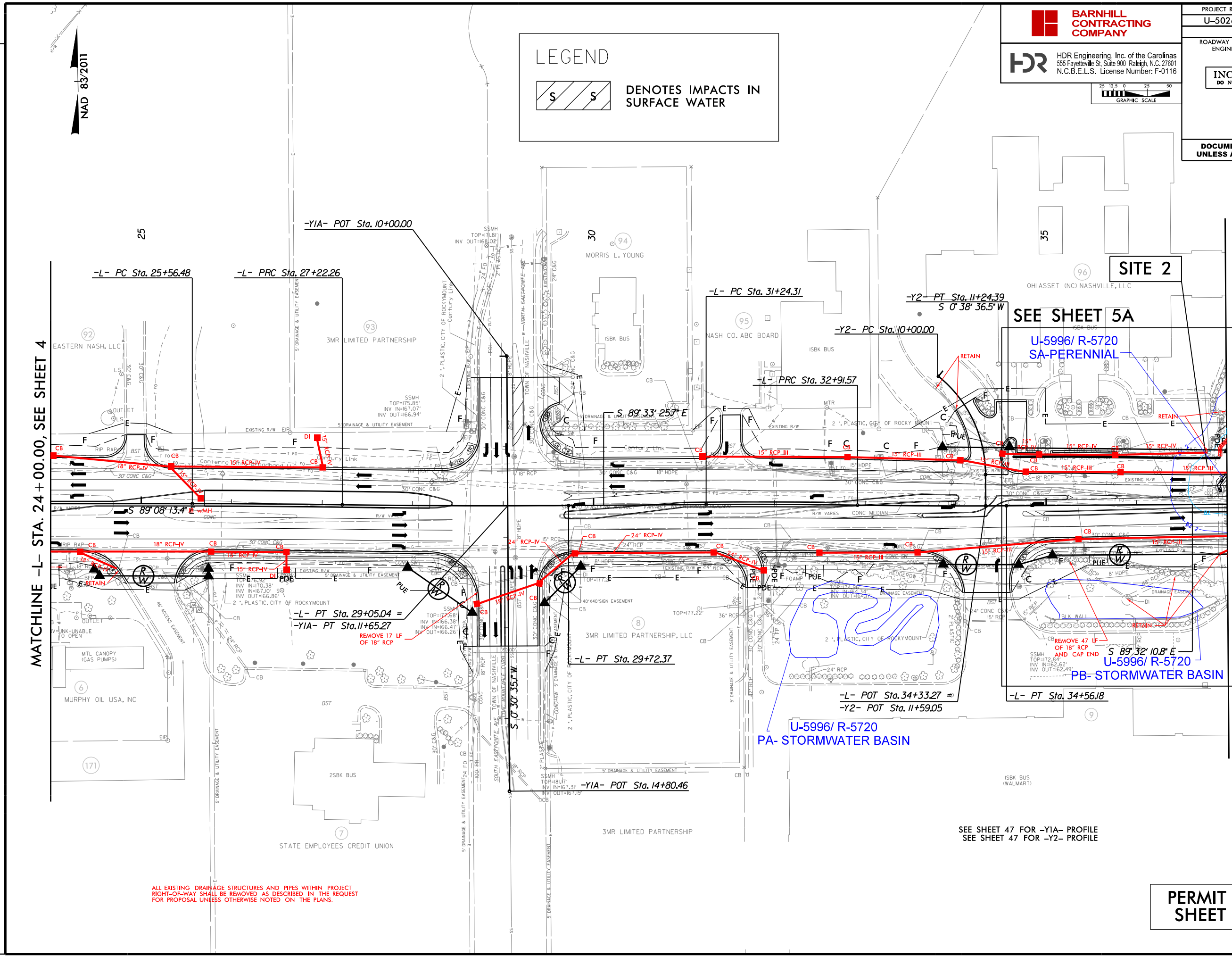
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SHEET \_\_\_ OF \_\_\_

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REVISIONS

MATCHLINE -L- STA. 24 + 00.00, SEE SHEET 4

MATCHLINE -L- STA. 37 + 00.00, SEE SHEET 6



**LEGEND**

DENOTES IMPACTS IN SURFACE WATER

**BARNHILL CONTRACTING COMPANY**

HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
 N.C.B.E.L.S. License Number: F-0116

GRAPHIC SCALE: 25 12.5 0 25 50

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

SEE SHEET 47 FOR -Y1A- PROFILE  
 SEE SHEET 47 FOR -Y2- PROFILE

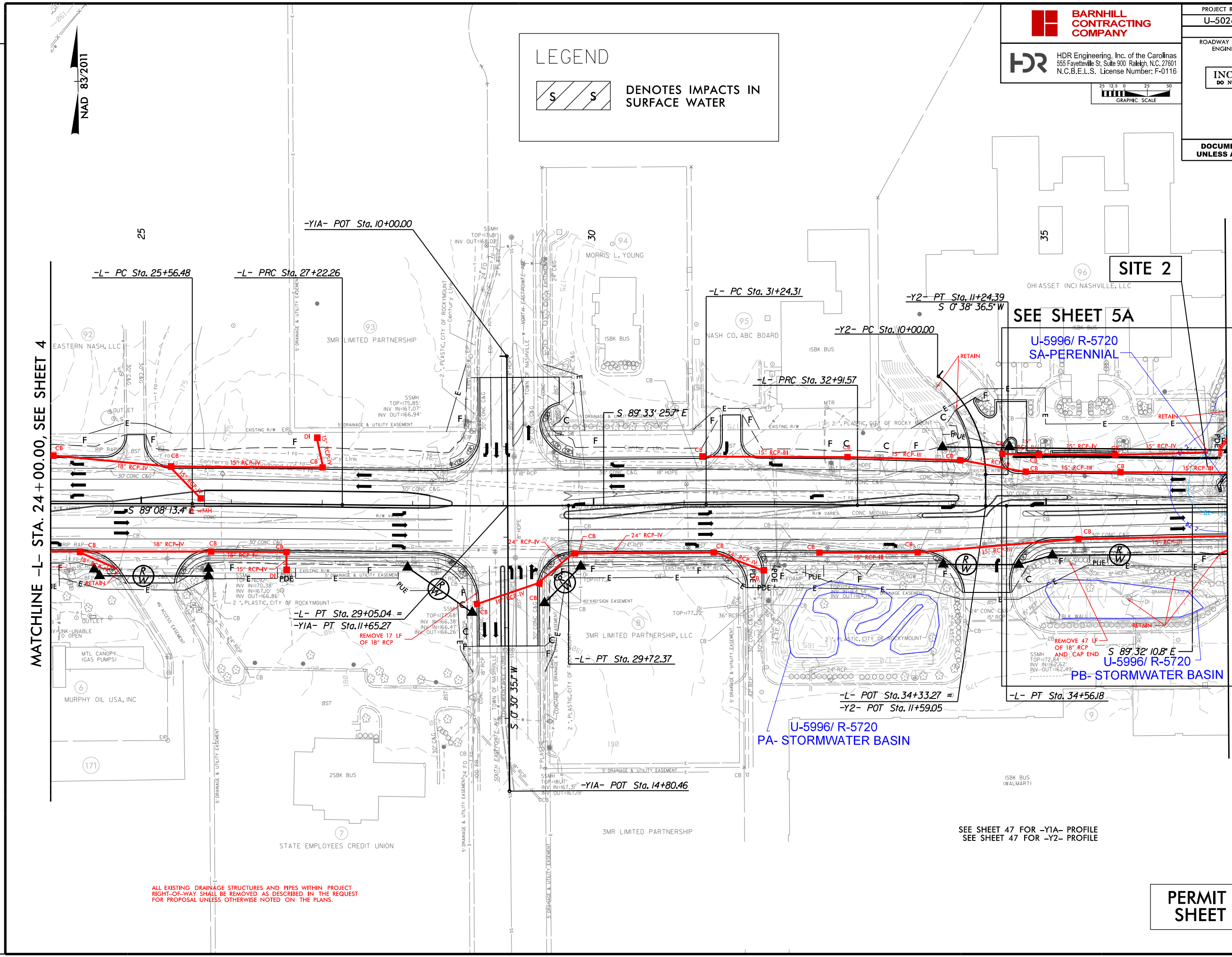
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REVISIONS

MATCHLINE -L- STA. 24 + 00.00, SEE SHEET 4

MATCHLINE -L- STA. 37 + 00.00, SEE SHEET 6



**LEGEND**

DENOTES IMPACTS IN SURFACE WATER

**BARNHILL CONTRACTING COMPANY**

**HDR** HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
 N.C.B.E.L.S. License Number: F-0116

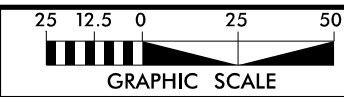
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PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

SEE SHEET 47 FOR -Y1A- PROFILE  
 SEE SHEET 47 FOR -Y2- PROFILE

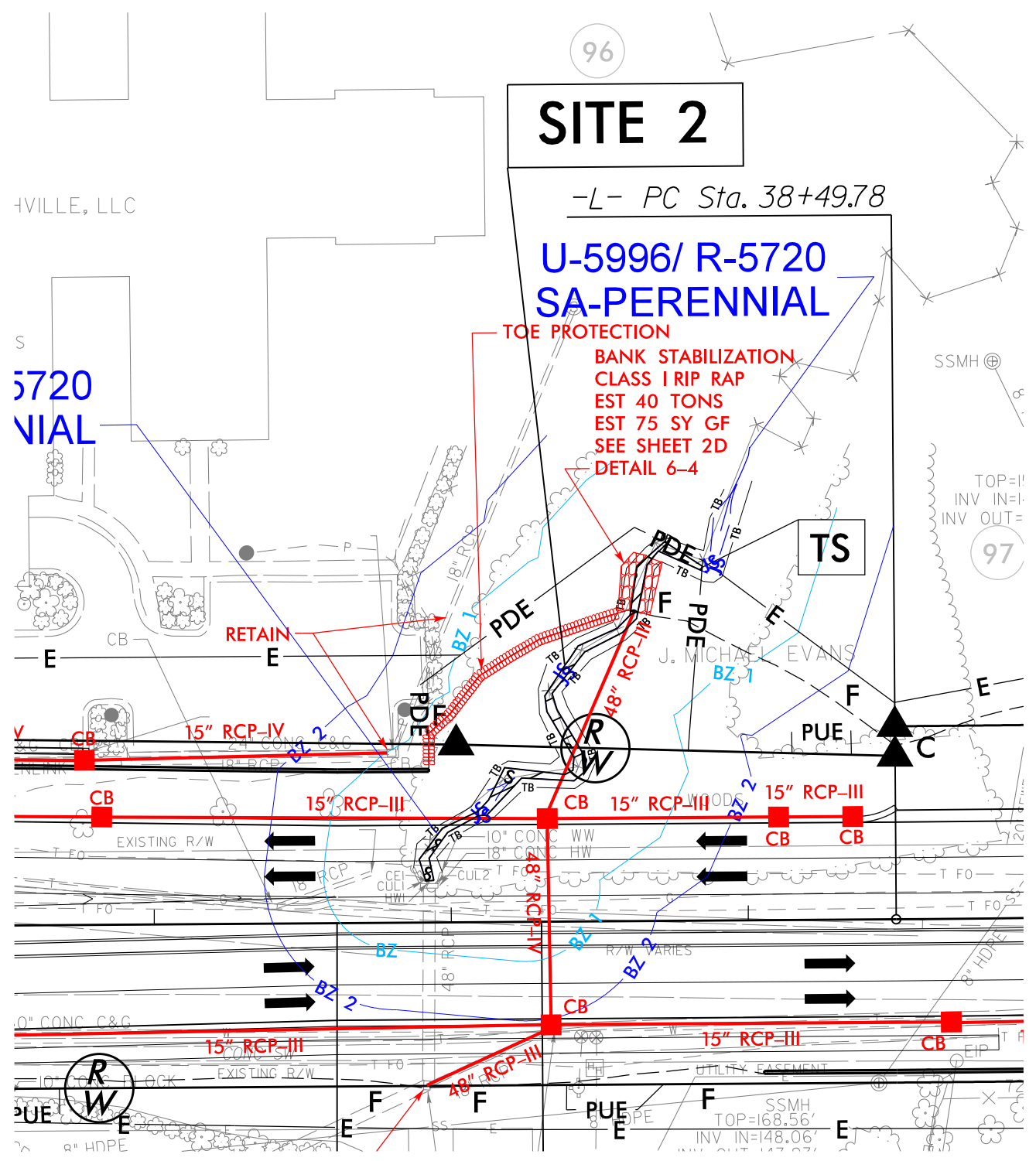
PERMIT DRAWING  
 SHEET \_\_\_ OF \_\_\_



PROJECT REFERENCE NO. U-5026 \ R-5720	SHEET NO. 5A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

### LEGEND

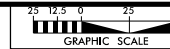
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PERMIT DRAWING  
SHEET \_\_\_ OF \_\_\_

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 DATE: 3/27/2020  
 REVISIONS





**BARNHILL CONTRACTING COMPANY**

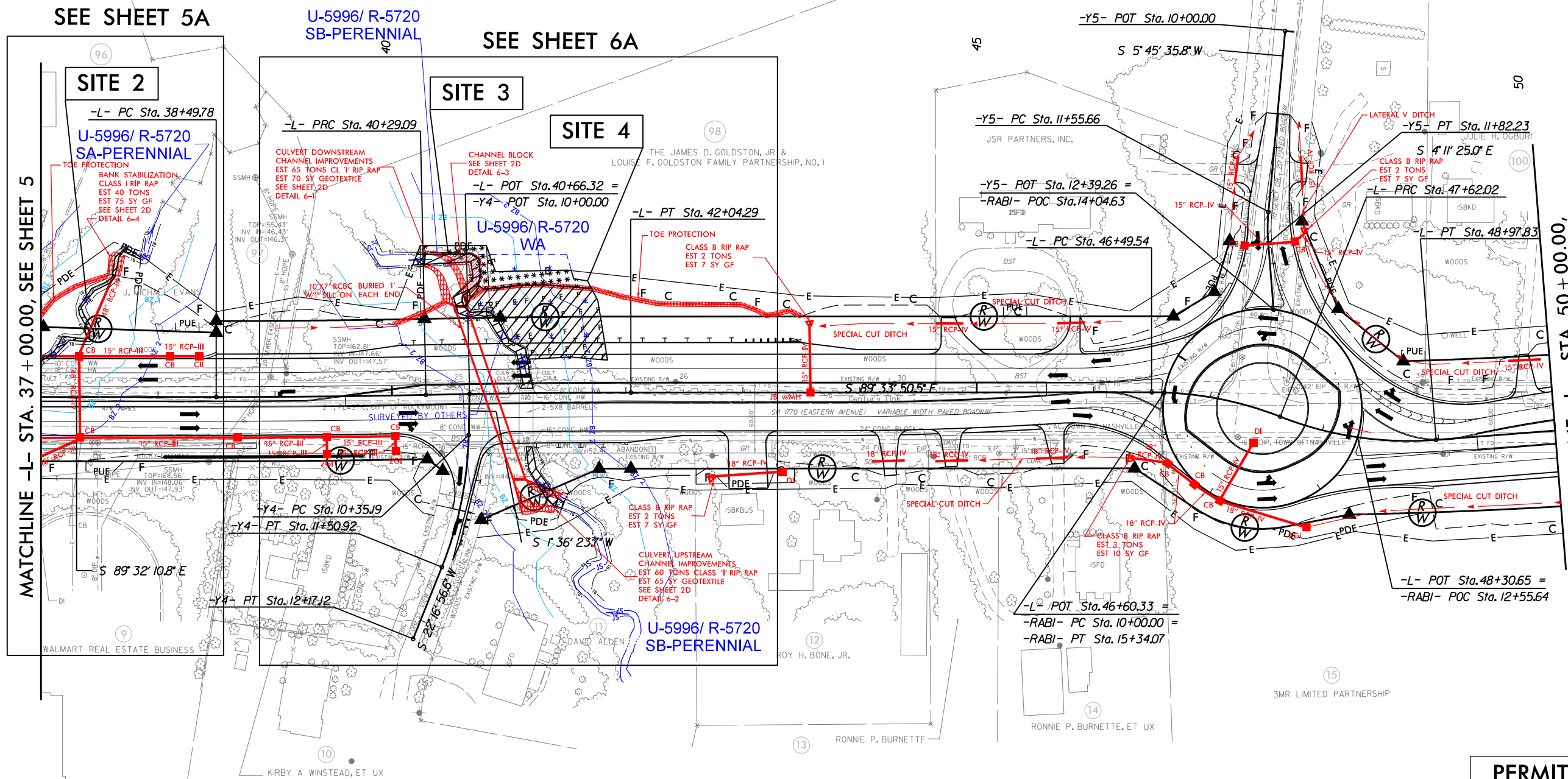
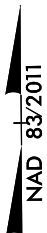


HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900, Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 6
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

**LEGEND**

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



MATCHLINE -L- STA. 37 + 00.00, SEE SHEET 5

MATCHLINE -L- STA. 50 + 00.00, SEE SHEET 7

SEE SHEET 5A

SEE SHEET 6A

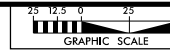
**PERMIT DRAWING**  
SHEET     OF    

ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

SEE SHEET 29 & 30 FOR -L- PROFILE  
SEE SHEET 47 FOR -Y4- PROFILE  
SEE SHEET 48 FOR -Y5- PROFILE  
SEE SHEET 44 FOR -RABI- PROFILE

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
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REVISIONS



**BARNHILL CONTRACTING COMPANY**

HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 6
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

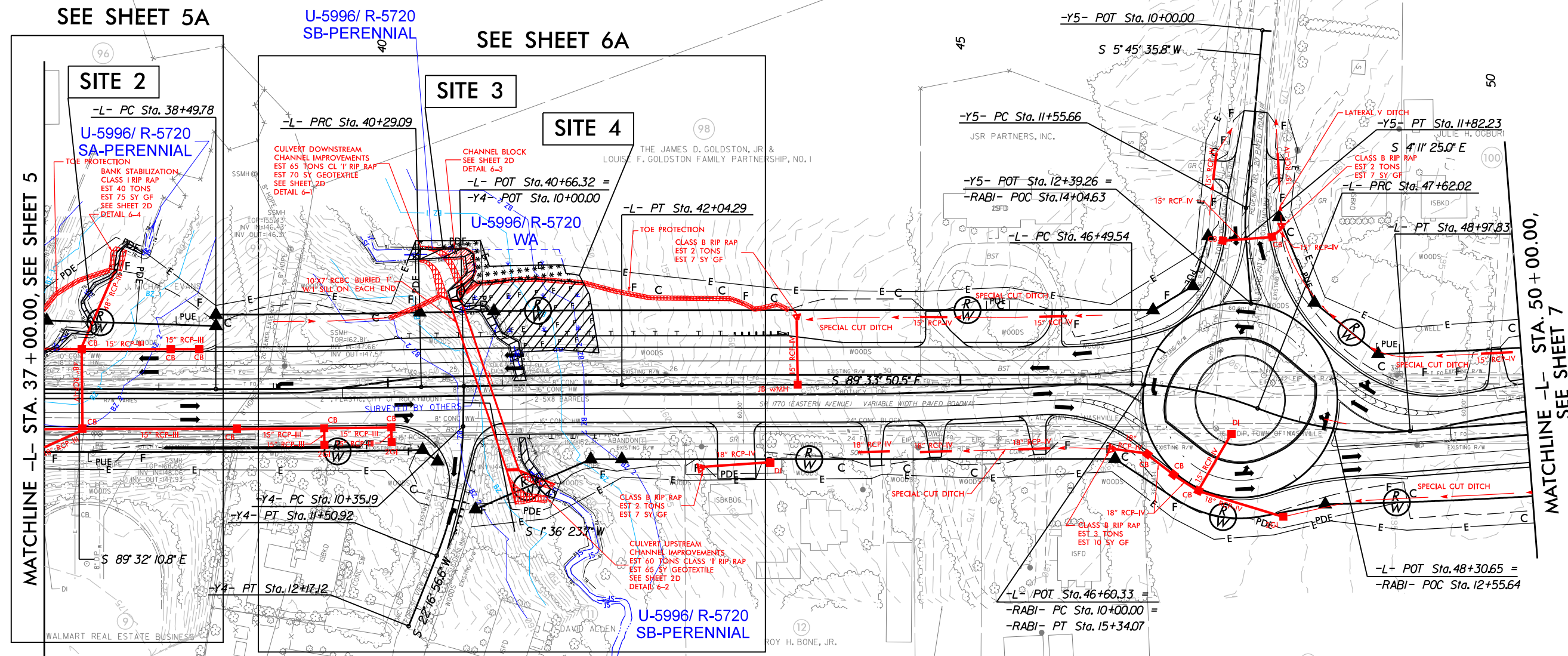
**LEGEND**

DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES FILL IN WETLAND

DENOTES MECHANIZED CLEARING



MATCHLINE -L- STA. 37 + 00.00, SEE SHEET 5

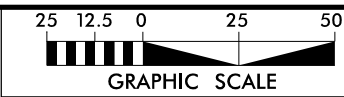
MATCHLINE -L- STA. 50 + 00.00, SEE SHEET 7

**PERMIT DRAWING**  
SHEET      OF     

ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

SEE SHEET 29 & 30 FOR -L- PROFILE  
SEE SHEET 47 FOR -Y4- PROFILE  
SEE SHEET 48 FOR -Y5- PROFILE  
SEE SHEET 44 FOR -RABI- PROFILE

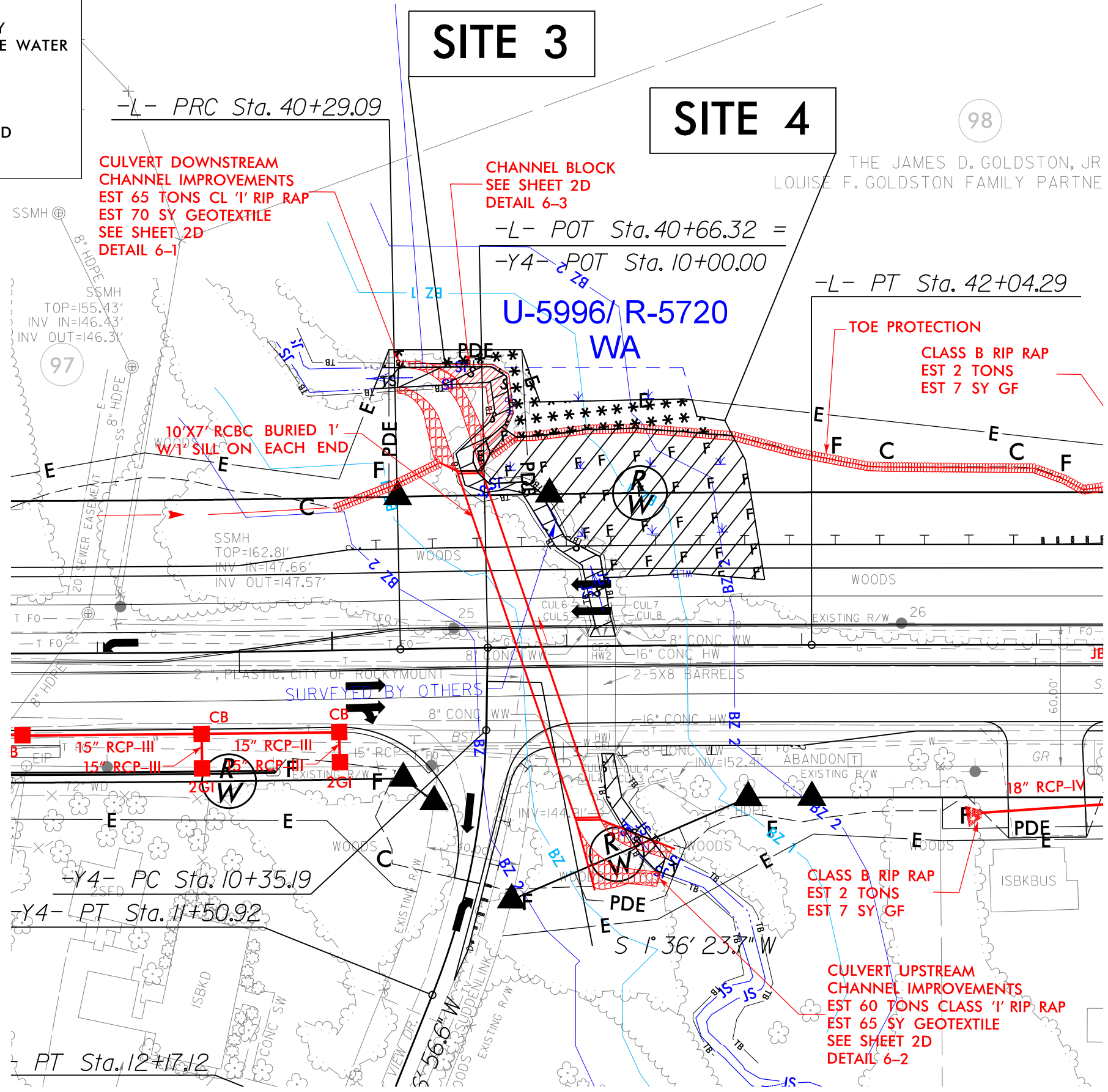
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 DATE: 3/27/2020  
 REVISIONS



PROJECT REFERENCE NO. U-5026 / R-5720	SHEET NO. 6A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

**LEGEND**

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



NAD 83/2011

PERMIT DRAWING  
SHEET \_\_\_ OF \_\_\_

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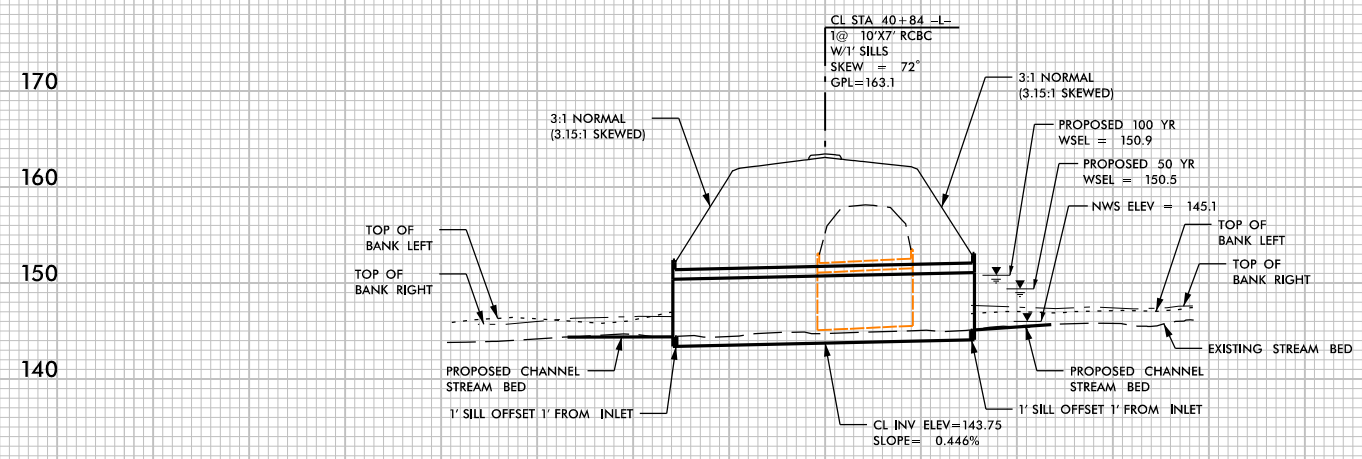
REVISIONS

5/14/99

PROJECT REFERENCE NO. <b>U-5026</b>	SHEET NO.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**SITE 3**

200' 150' 100' 50' 0 50' 100' 150' 200'

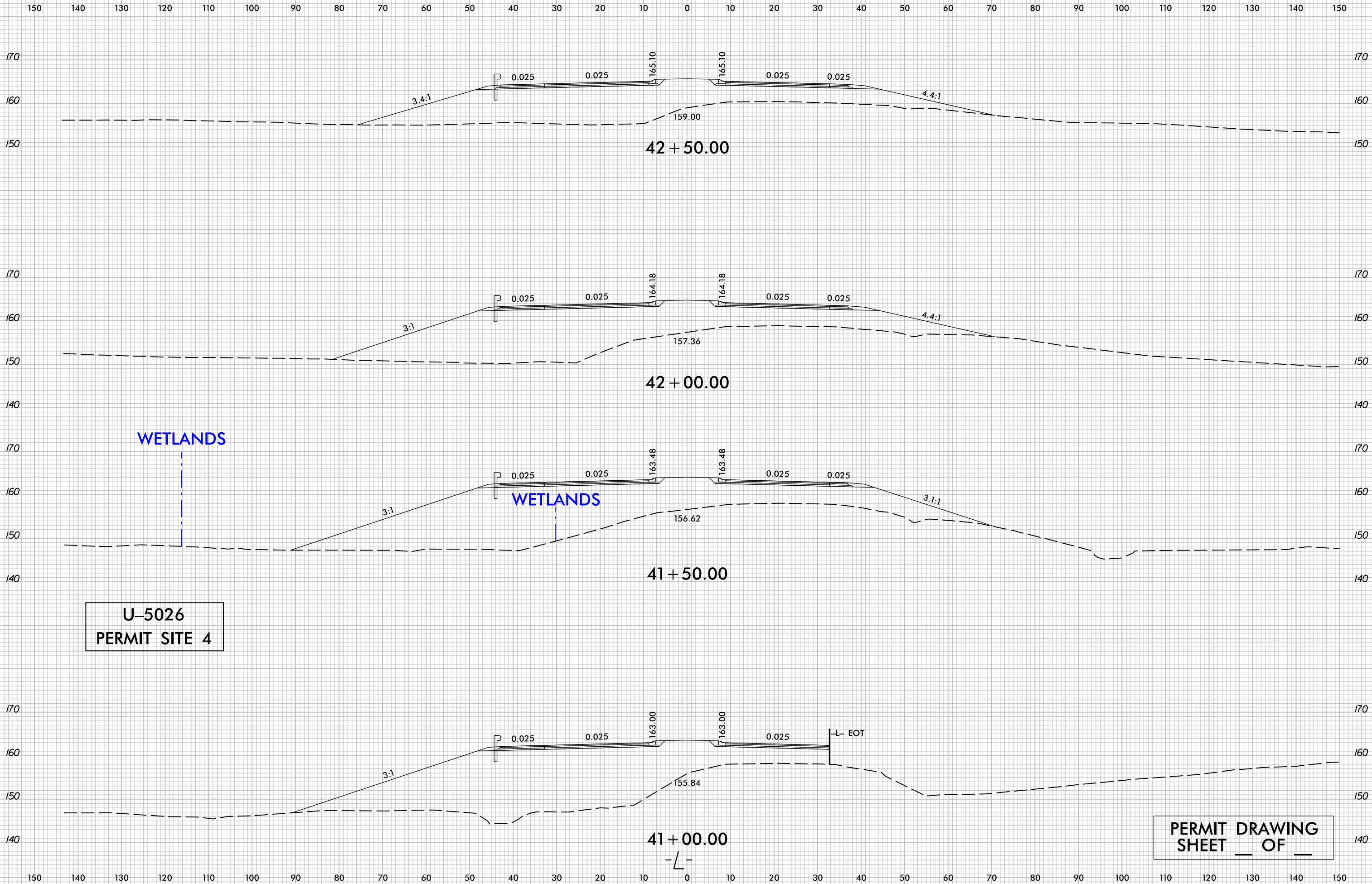


**PROFILE ALONG C OF CULVERT**

REVISIONS

**PERMIT DRAWING  
SHEET \_\_ OF \_\_**

8/23/99



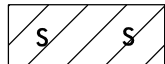
U-5026  
PERMIT SITE 4

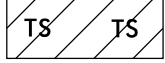
PERMIT DRAWING  
SHEET \_\_\_ OF \_\_\_

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PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

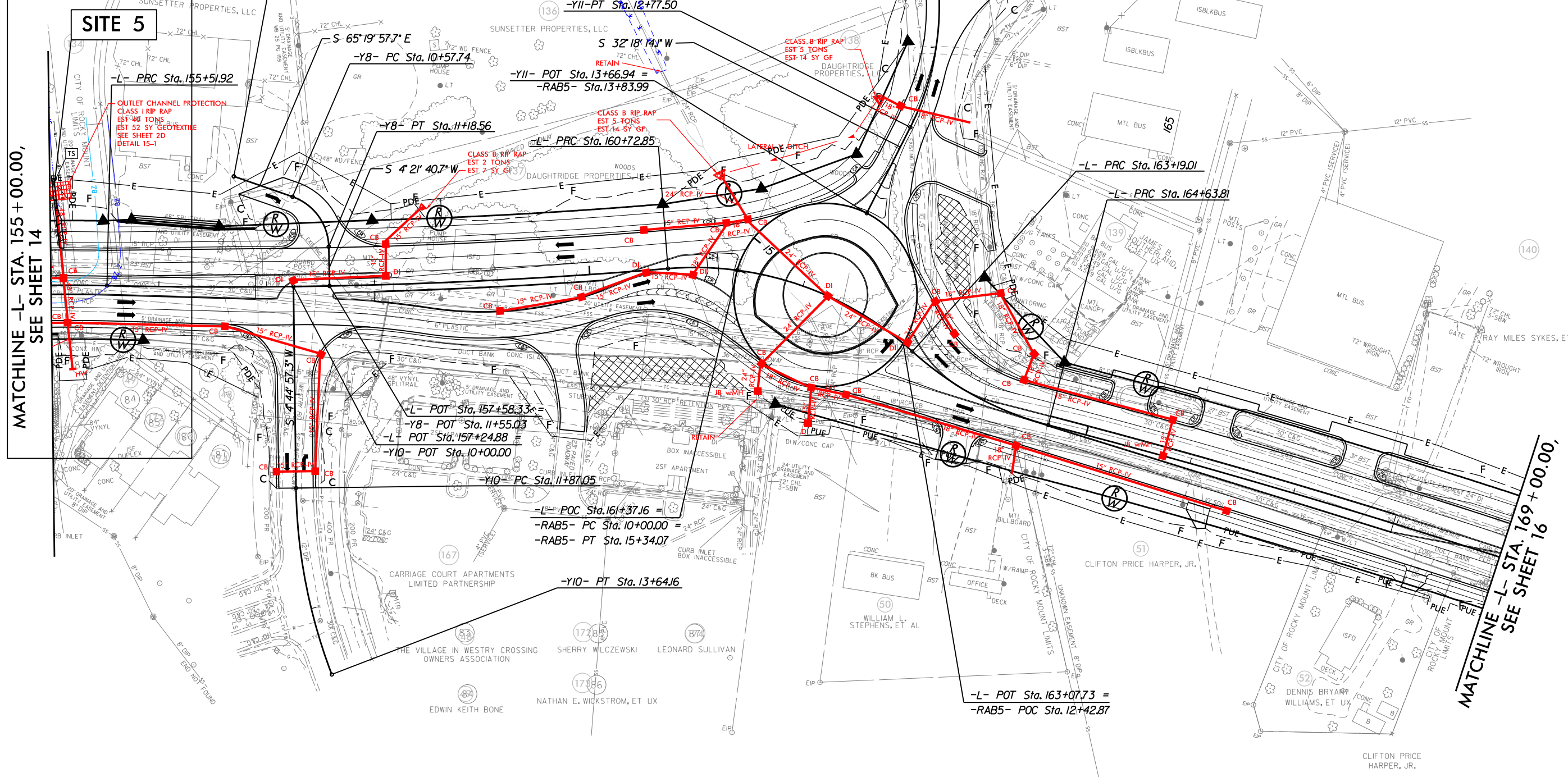
**LEGEND**

 DENOTES IMPACTS IN SURFACE WATER

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

SEE SHEET 15A

MATCHLINE -L- STA. 155+00.00,  
SEE SHEET 14



ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

**PERMIT DRAWING**  
SHEET      OF     

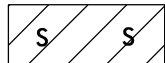
SEE SHEET 34 FOR -L- PROFILE  
SEE SHEET 45 FOR -RAB5- PROFILE  
SEE SHEET 49 FOR -Y10- PROFILE  
SEE SHEET 49 FOR -Y11- PROFILE

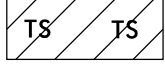
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REVISIONS

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

**LEGEND**

 DENOTES IMPACTS IN SURFACE WATER

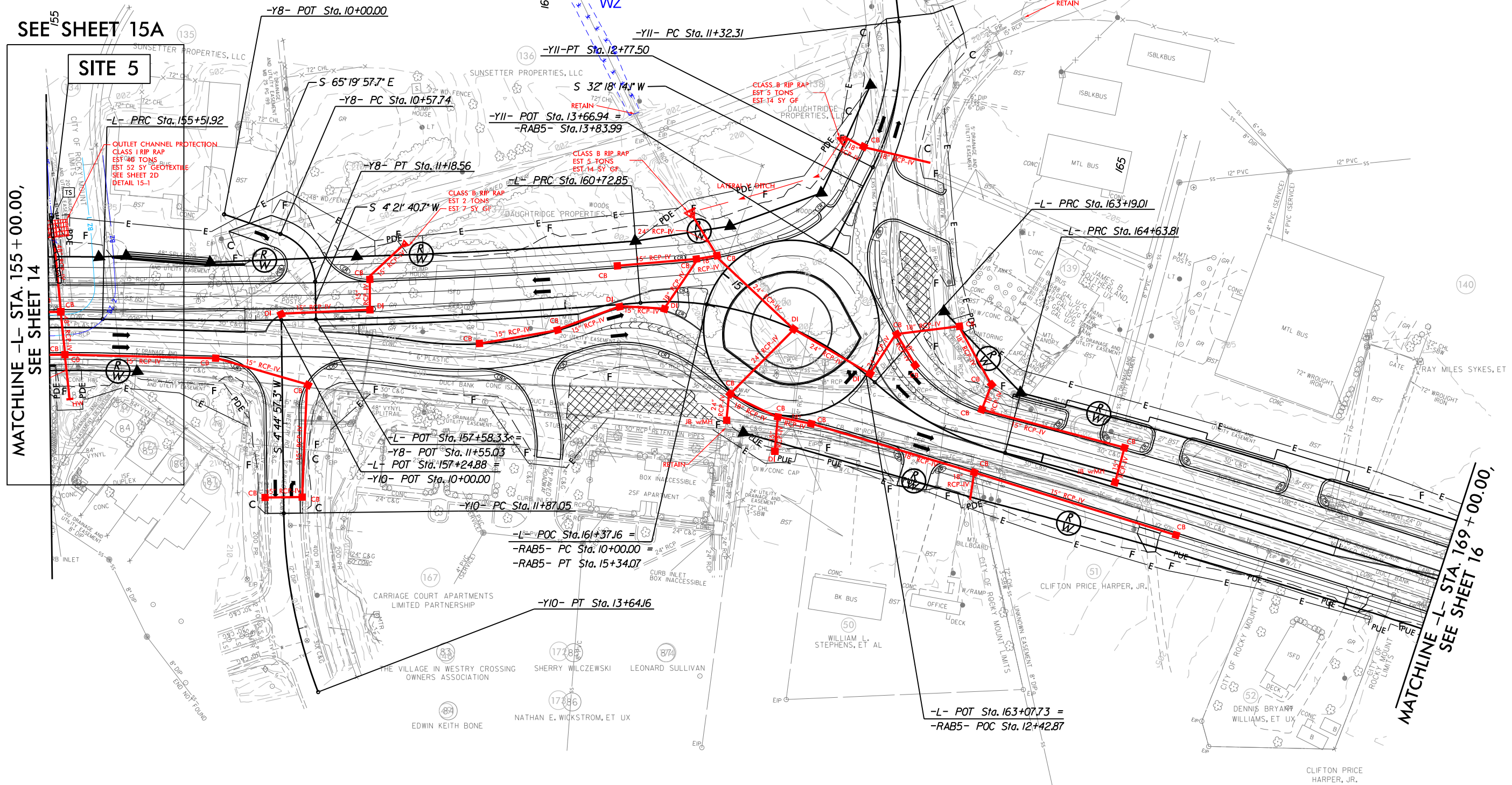
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

SEE SHEET 15A

**SITE 5**

MATCHLINE -L- STA. 155+00.00, SEE SHEET 14

MATCHLINE -L- STA. 169+00.00, SEE SHEET 16



ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

**PERMIT DRAWING**  
SHEET      OF     

SEE SHEET 34 FOR -L- PROFILE  
SEE SHEET 45 FOR -RAB5- PROFILE  
SEE SHEET 49 FOR -Y10- PROFILE  
SEE SHEET 49 FOR -Y11- PROFILE

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
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REVISIONS

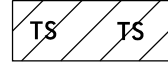
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 DATE: 3/27/2020

REVISIONS

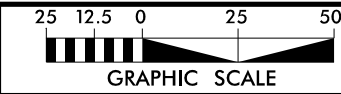
**LEGEND**



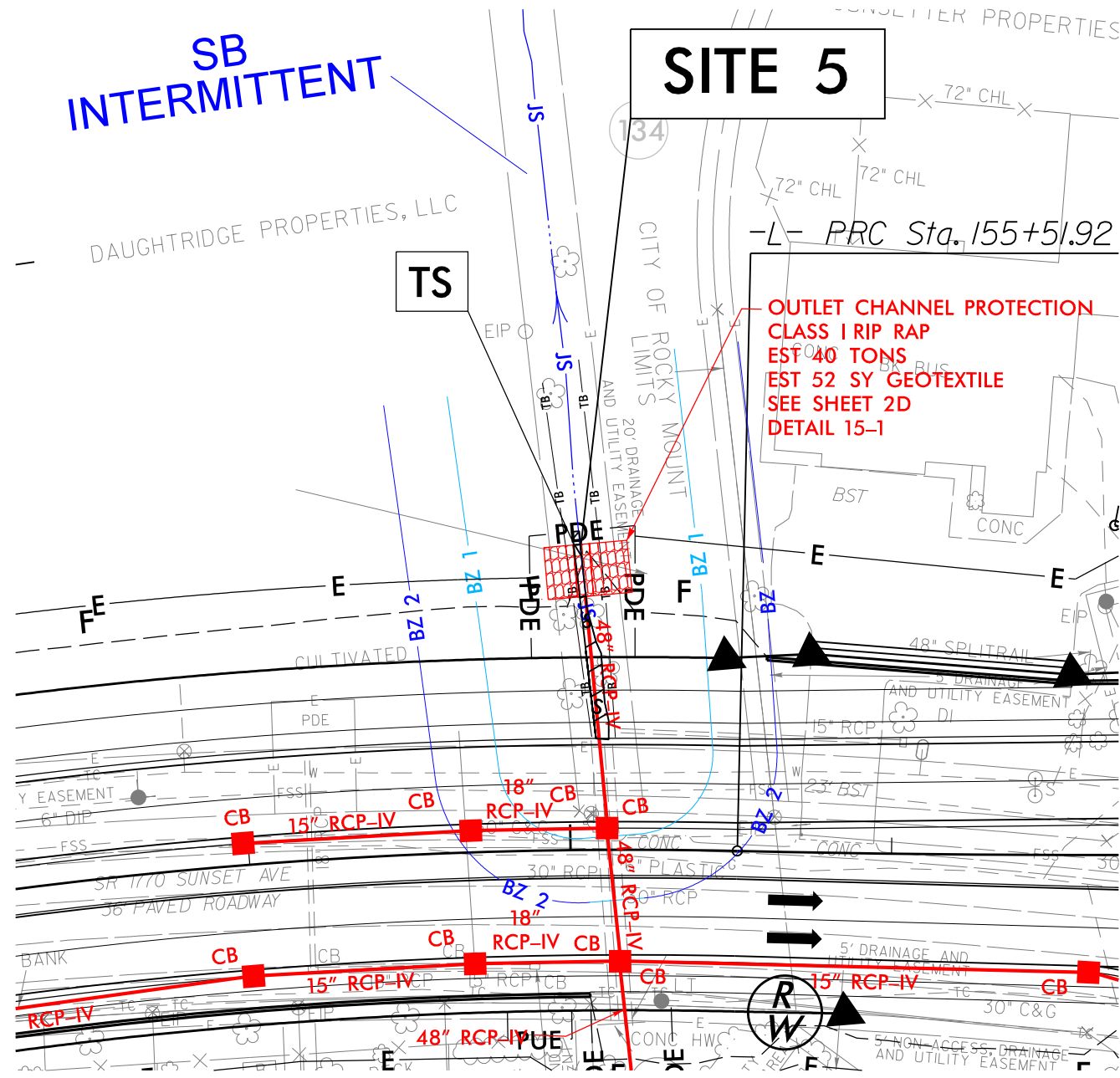
DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 15A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



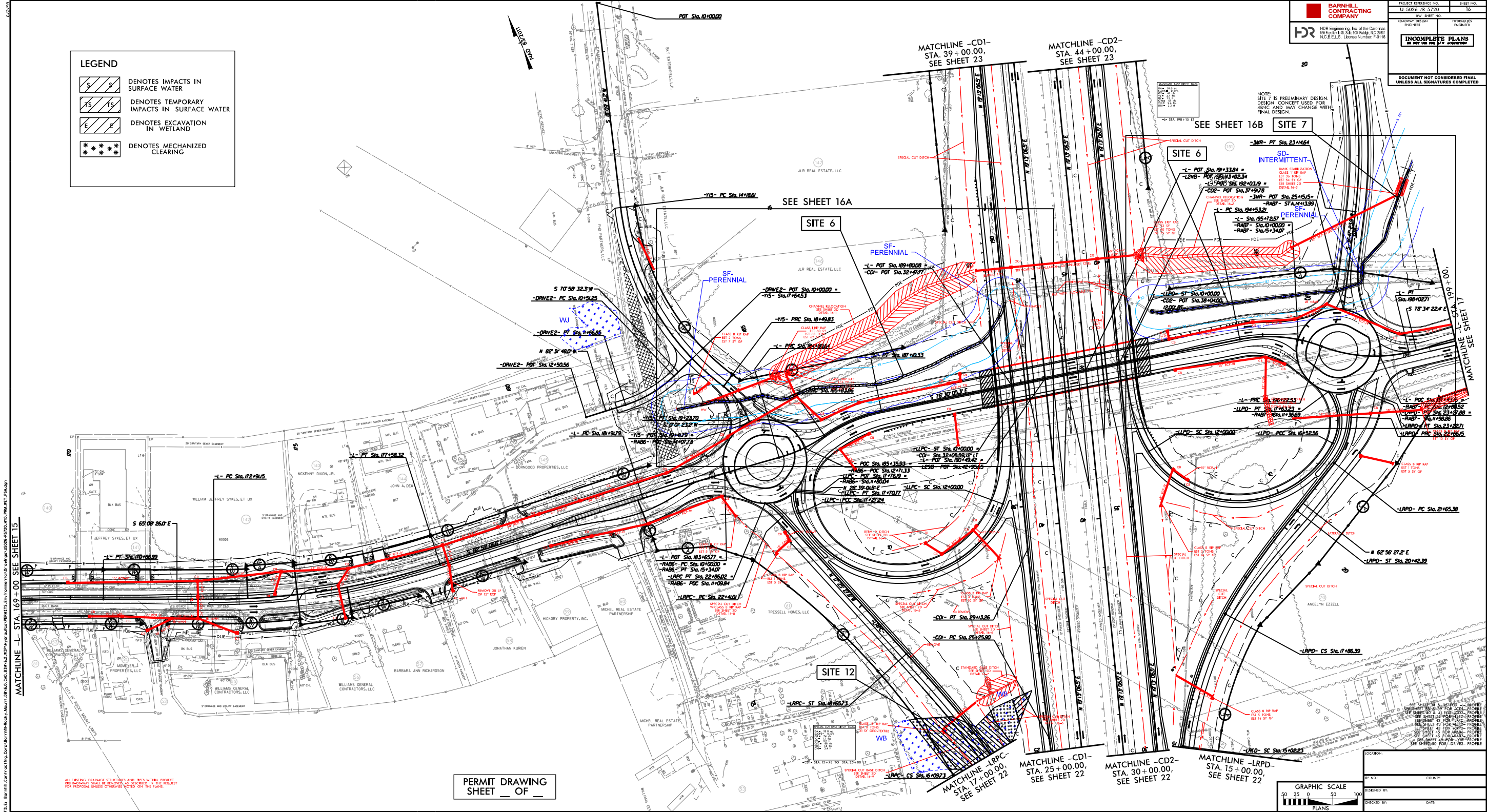
PERMIT DRAWING  
 SHEET \_\_\_ OF \_\_\_



LEGEND	
	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES EXCAVATION IN WETLAND
	DENOTES MECHANIZED CLEARING

PROJECT REFERENCE NO. LC-5226 / 8-5720		SHEET NO. 16	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>INCOMPLETE PLANS</b>			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NOTE: SITE IS PRELIMINARY DESIGN. DESIGN CONCEPT USED FOR ABAC AND MAY CHANGE WITH FINAL DESIGN.



PLOT: D:\PLOT\2025\250716\250716.dwg DATE: 7/27/2025  
 USER: C:\Users\j...  
 PLOTTER: HP DesignJet 5000

ALL EXISTING CHANNELS, STRUCTURES AND WALLS WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS SHOWN BY THE REVISIONS FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

**LEGEND**

- DENOTES IMPACTS IN SURFACE WATER
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES EXCAVATION IN WETLAND
- DENOTES MECHANIZED CLEARING

**BARNHILL CONTRACTING COMPANY**

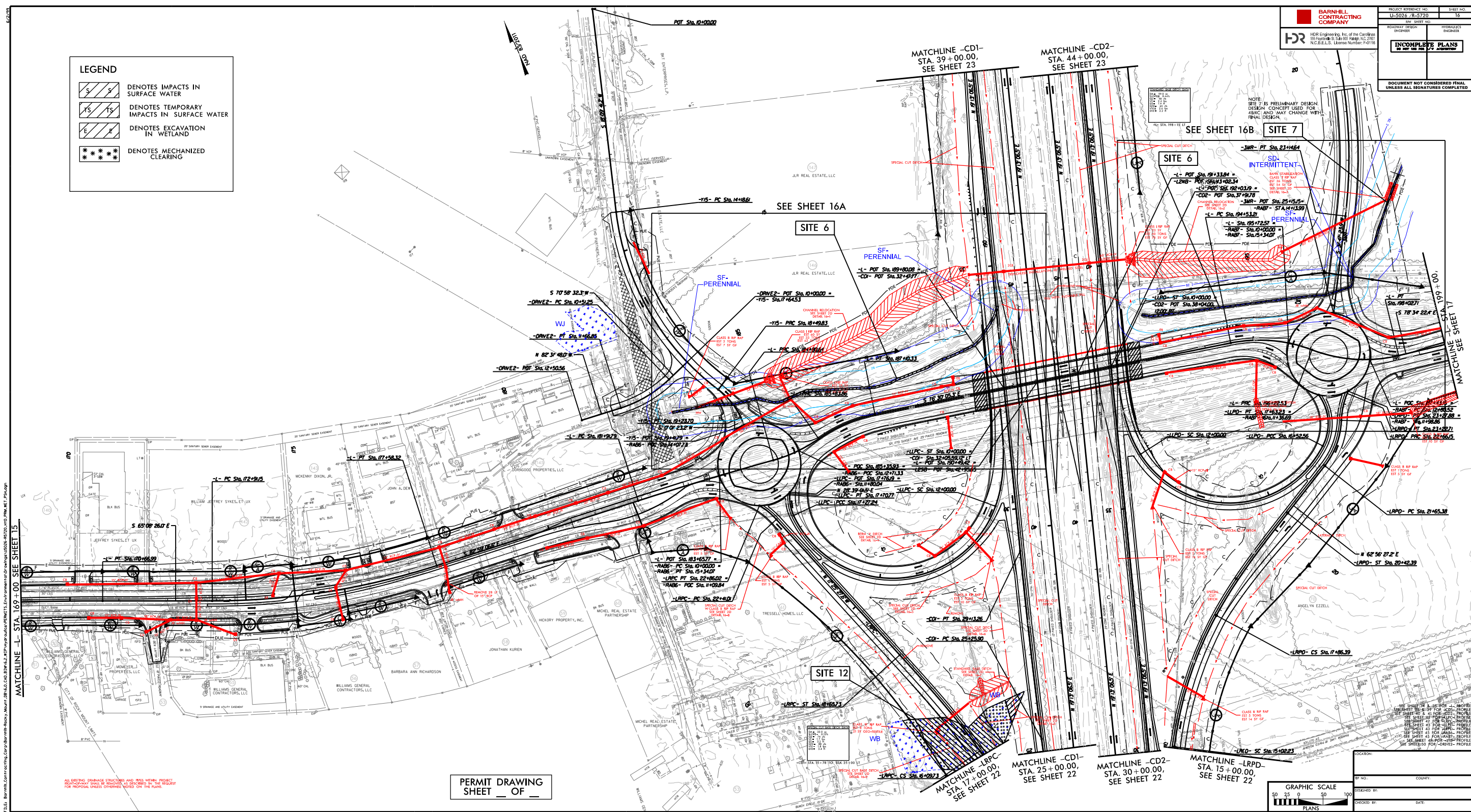
HDR Engineering, Inc. of the Carolinas  
 255 Parkway Dr., Suite 100, Raleigh, NC 27607  
 N.C.S.E.L.S. License Number: F-2116

PROJECT REFERENCE NO. LC-5226 / 8-5720 SHEET NO. 16

ROADWAY DESIGN ENGINEER  
 HYDRAULICS ENGINEER

**INCOMPLETE PLANS**  
 SEE THE TITLE BLOCK FOR EXPLANATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PLOT: D:\PLOT\2020\16.dwg (DATE: 3/27/2020) TIME: 10:58:17 PM  
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 PLOTTER: HP DesignJet 5000 Series Plotter (DATE: 3/27/2020) TIME: 10:58:17 PM  
 PLOT SCALE: 1:1 (DATE: 3/27/2020) TIME: 10:58:17 PM  
 PLOT SHEET: 16 OF 16 (DATE: 3/27/2020) TIME: 10:58:17 PM

ALL EXISTING CHANNELS, STRUCTURES AND WELLS WITHIN PROJECT-BOUNDARY SHALL BE REMOVED AS DESCRIBED BY THE RELEVANT PERMITS UNLESS OTHERWISE NOTED ON THE PLANS.

PERMIT DRAWING SHEET \_\_\_ OF \_\_\_

GRAPHIC SCALE  
 0 25 50 100  
 FEET  
 PLANS

DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_



**LEGEND**

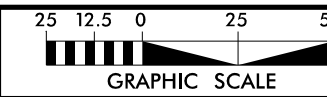


DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER

SITE 7 IS PRELIMINARY DESIGN.  
DESIGN CONCEPT USED FOR 4B/4C AND MAY CHANGE WITH FINAL DESIGN.



PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 16B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

**SITE 7**

**SITE 6**

**SD-INTERMITTENT**

**SF-PERENNIAL**

BANK STABILIZATION  
CLASS 'I' RIP RAP  
EST 36 TONS  
EST 54 SY GF  
SEE SHEET 2D  
DETAIL 16-3

CLASS I RIP RAP  
EST 73 SY  
EST 40 TONS  
EST 75 SY GF

CHANNEL RELOCATION  
SEE SHEET 2D  
DETAIL 16-2

-3MR- PT Sta. 23+14.64

-L- POT Sta. 191+33.84 =

-L2NB- POT Sta. 43+02.34

-L- POT Sta. 192+03.19 =

-CD2- POT Sta. 37+91.78

-3MR- POT Sta. 25+15.15 =

-RAB7- STA. 14+13.99

-L- PC Sta. 194+53.21

-L- Sta. 195+72.57 =

-RAB7- Sta. 10+00.00 =

-RAB7- Sta. 15+34.07

60" RCP-III (BURIED 1.0')

CP-IV  
(1.0')

-LLPD- ST Sta. 10+00.00 =

-CD2- POT Sta. 38+04.00

12.00' RT

25  
JB w/MH

-L- PT  
Sta. 198+00

S 78°

151

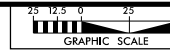


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REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
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REVISIONS



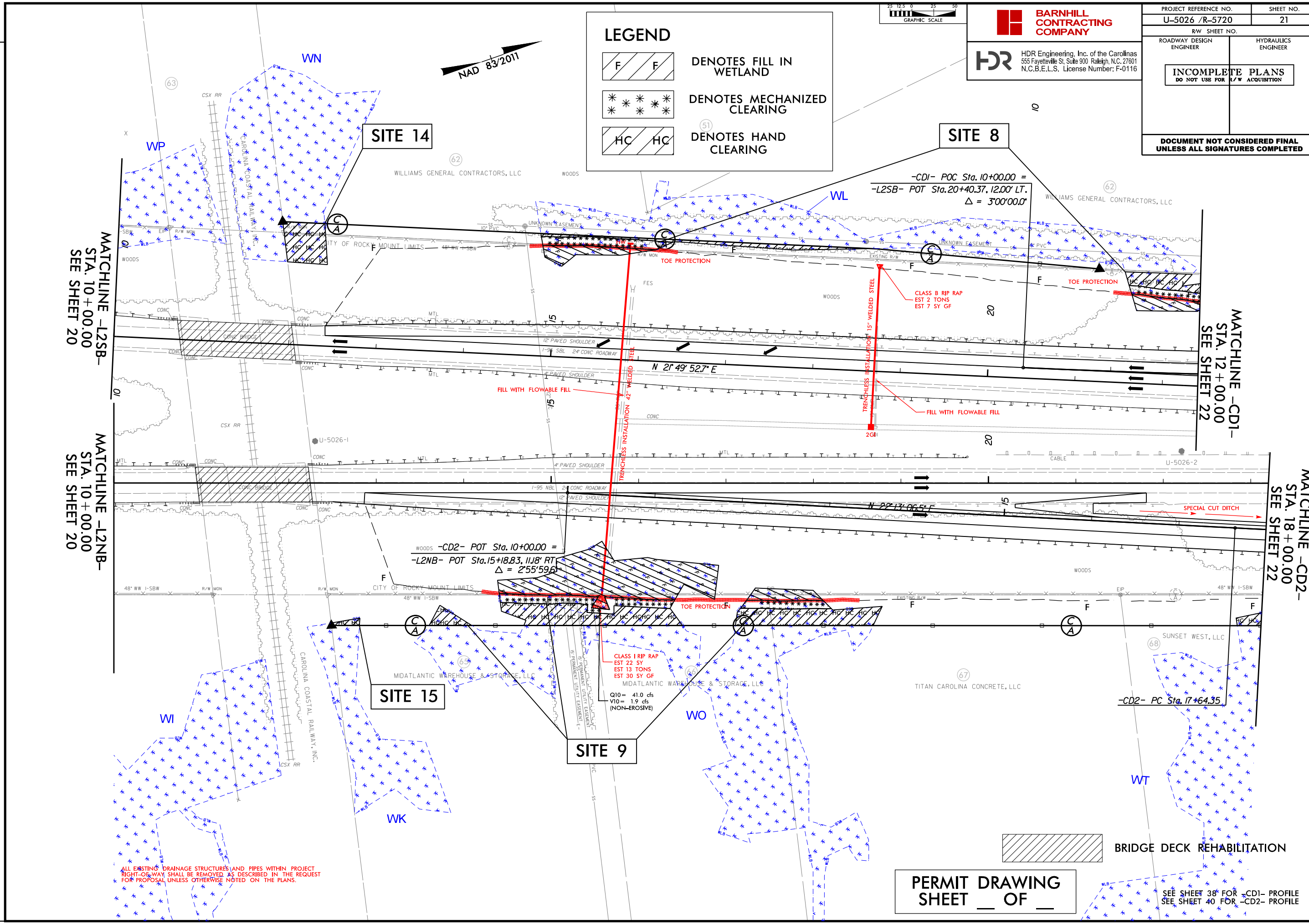
**BARNHILL CONTRACTING COMPANY**

**HDR** HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
 N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

**LEGEND**

- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES HAND CLEARING



ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

**PERMIT DRAWING**  
 SHEET \_\_\_ OF \_\_\_

SEE SHEET 38 FOR -CD1- PROFILE  
 SEE SHEET 40 FOR -CD2- PROFILE

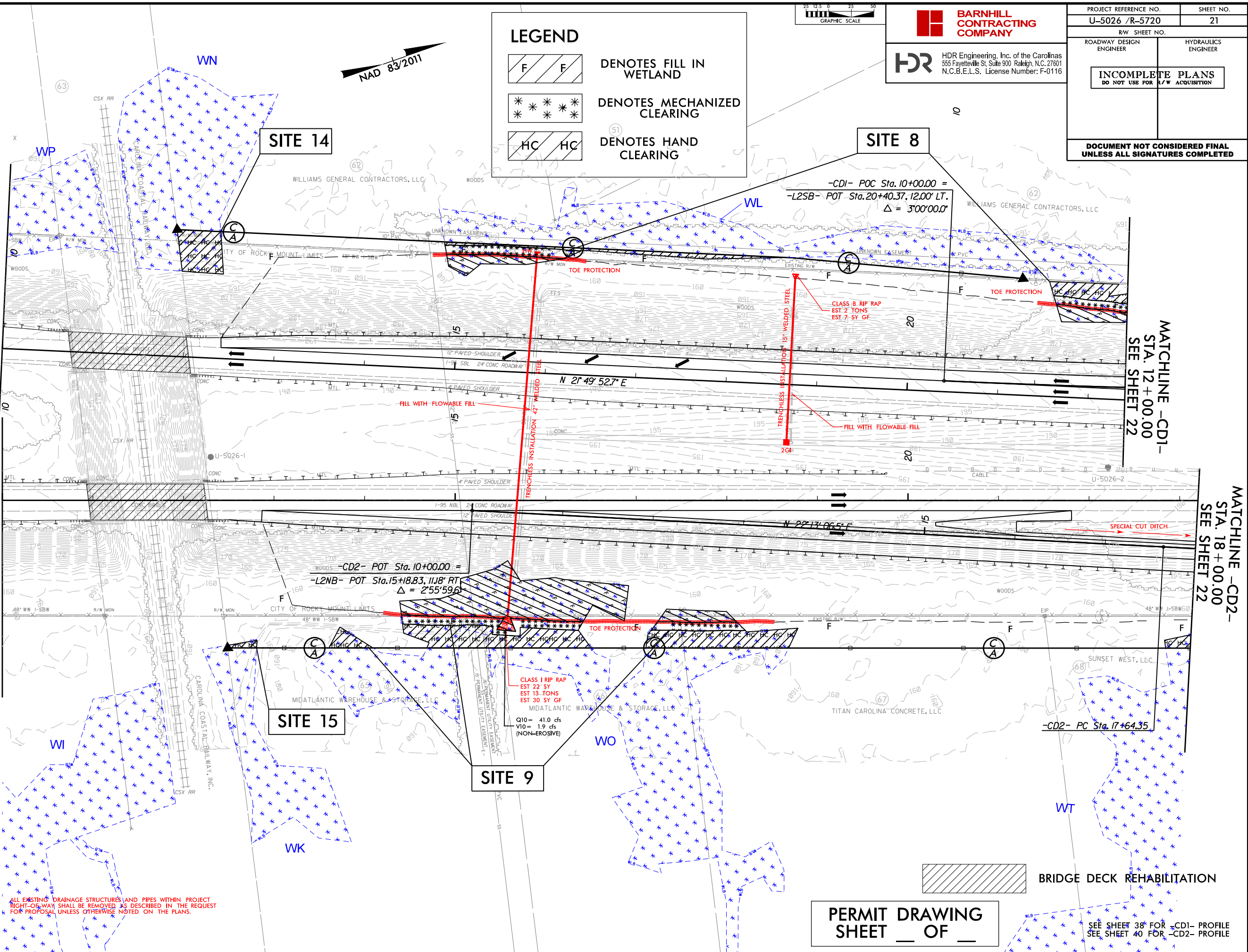
REVISIONS

MATCHLINE -L2SB-  
 STA. 10+00.00  
 SEE SHEET 20

MATCHLINE -L2NB-  
 STA. 10+00.00  
 SEE SHEET 20

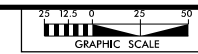
MATCHLINE -CD1-  
 STA. 12+00.00  
 SEE SHEET 22

MATCHLINE -CD2-  
 STA. 18+00.00  
 SEE SHEET 22



**LEGEND**

	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING
	DENOTES HAND CLEARING



**BARNHILL CONTRACTING COMPANY**

**HDR** HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
 N.C.B.E.L.S. License Number: F-0116

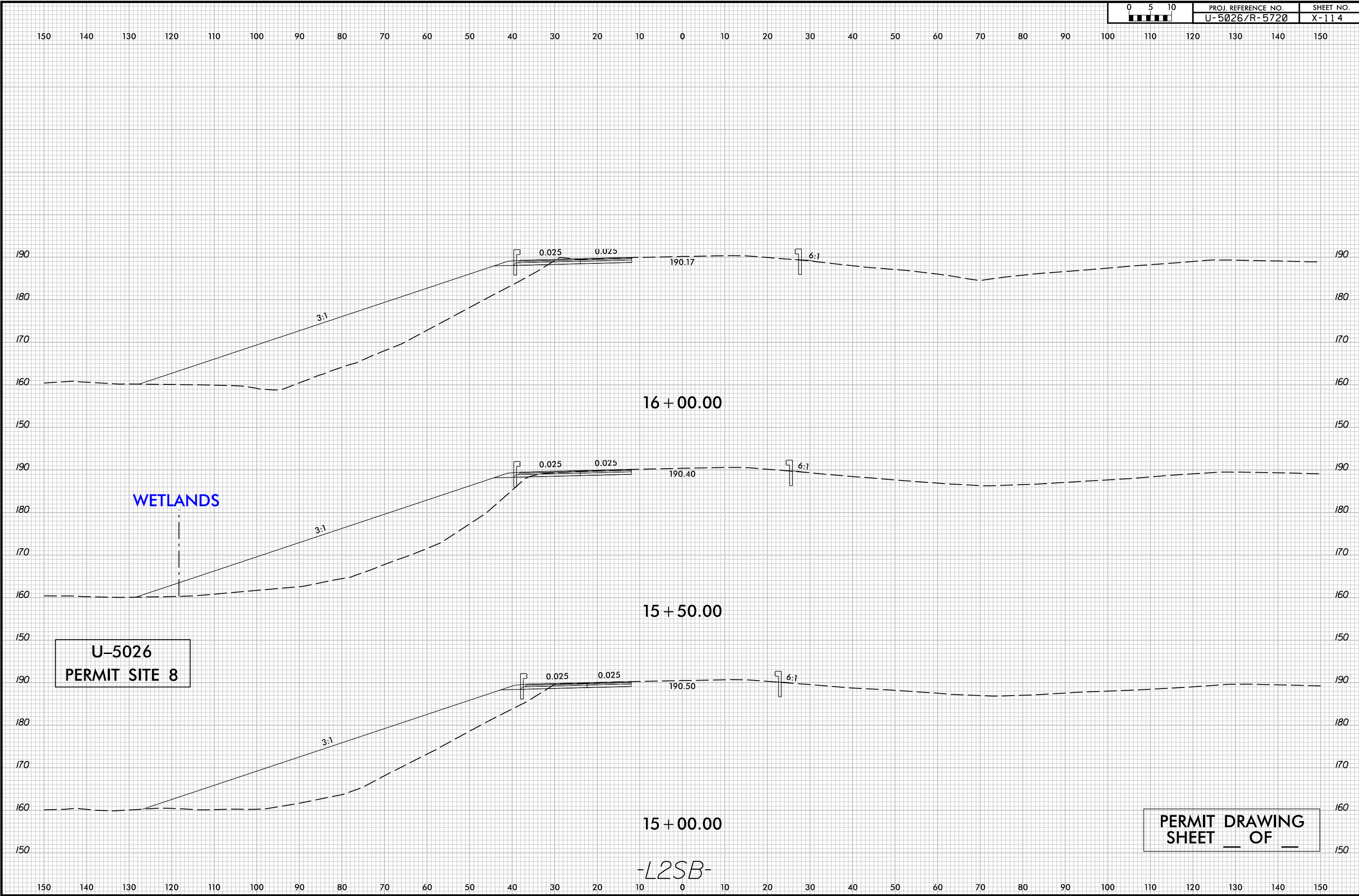
PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 21
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

PERMIT DRAWING  
 SHEET \_\_\_ OF \_\_\_

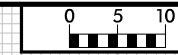
SEE SHEET 38 FOR -CD1- PROFILE  
 SEE SHEET 40 FOR -CD2- PROFILE

8/23/99



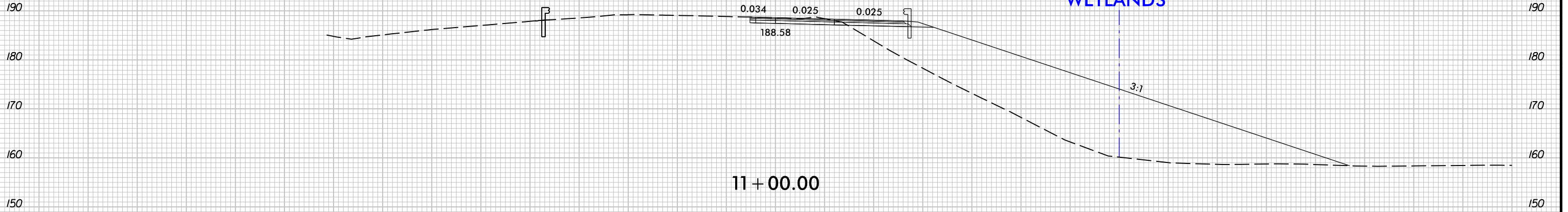
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8/23/99

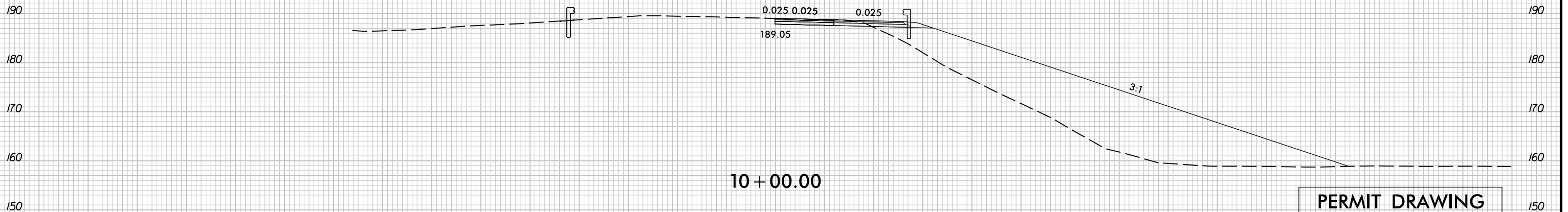
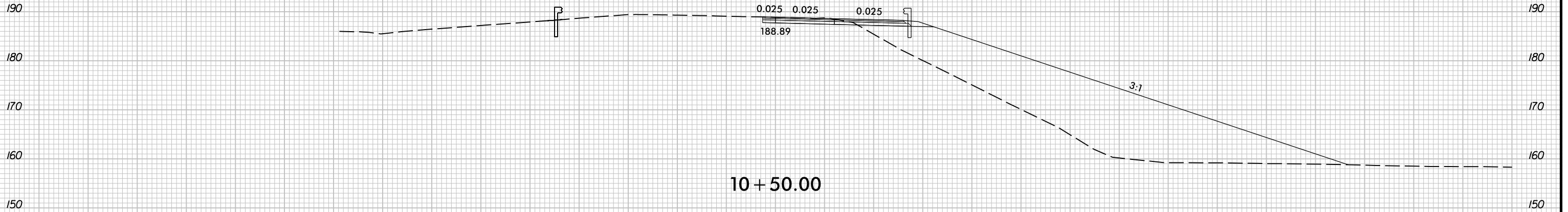


PROJ. REFERENCE NO.	SHEET NO.
U-5026/R-5720	X-143

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U-5026  
PERMIT SITE 9



PERMIT DRAWING  
SHEET \_\_\_ OF \_\_\_

-CD2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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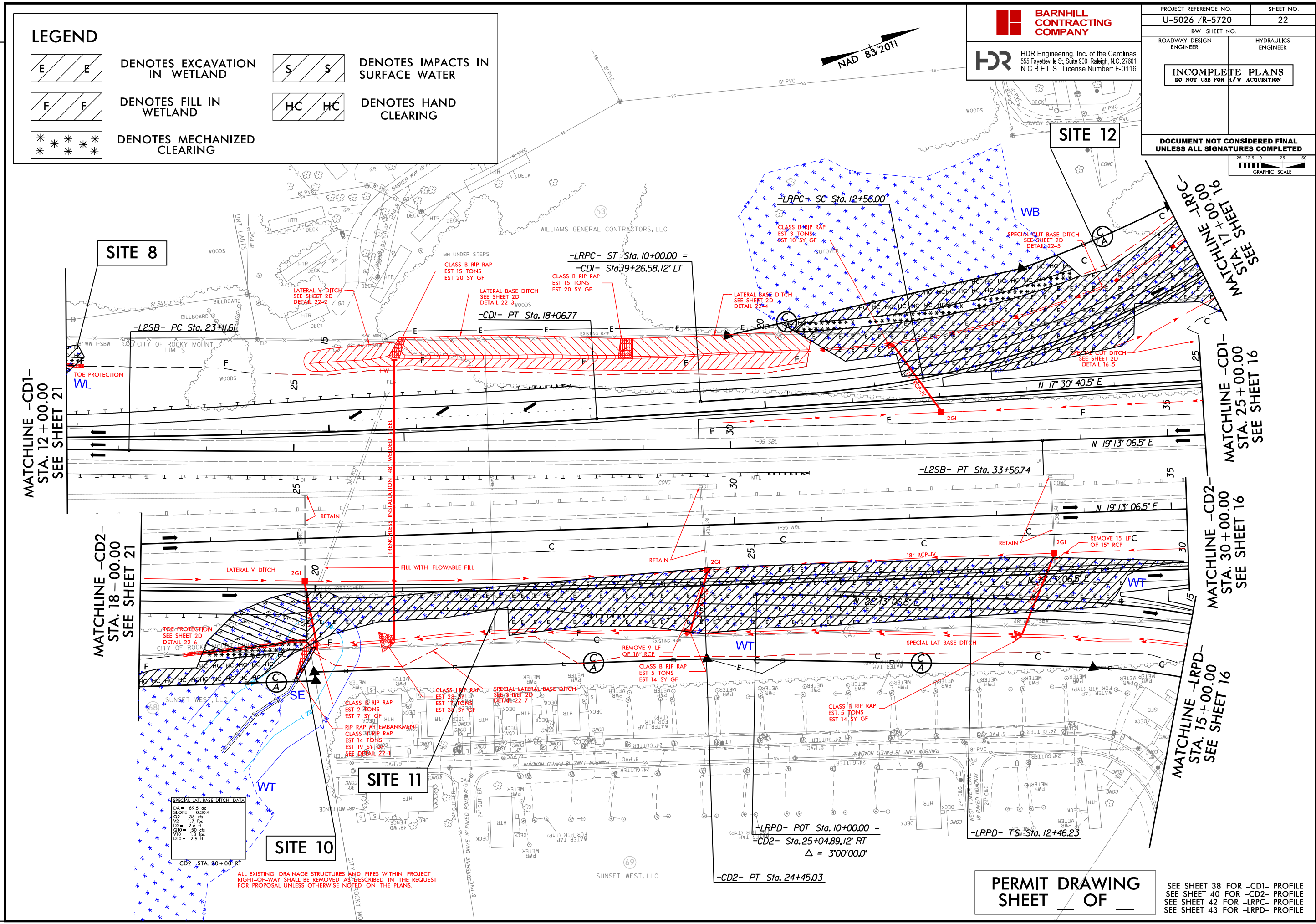
**LEGEND**

- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES HAND CLEARING

**BARNHILL CONTRACTING COMPANY**

HDR Engineering, Inc. of the Carolinas  
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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 22
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



**SPECIAL LAT. BASE DITCH DATA**

DA =	69.5	oc
SLOPE =	0.00%	
D1 =	26	chs
D2 =	17	ft
D3 =	2.6	ft
D4 =	30	chs
D5 =	1.8	ft
D6 =	2.9	ft

ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

**PERMIT DRAWING**  
**SHEET OF**

SEE SHEET 38 FOR -CD1- PROFILE  
SEE SHEET 40 FOR -CD2- PROFILE  
SEE SHEET 42 FOR -LRPC- PROFILE  
SEE SHEET 43 FOR -LRPD- PROFILE

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
 USER: CMYERS  
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REVISIONS

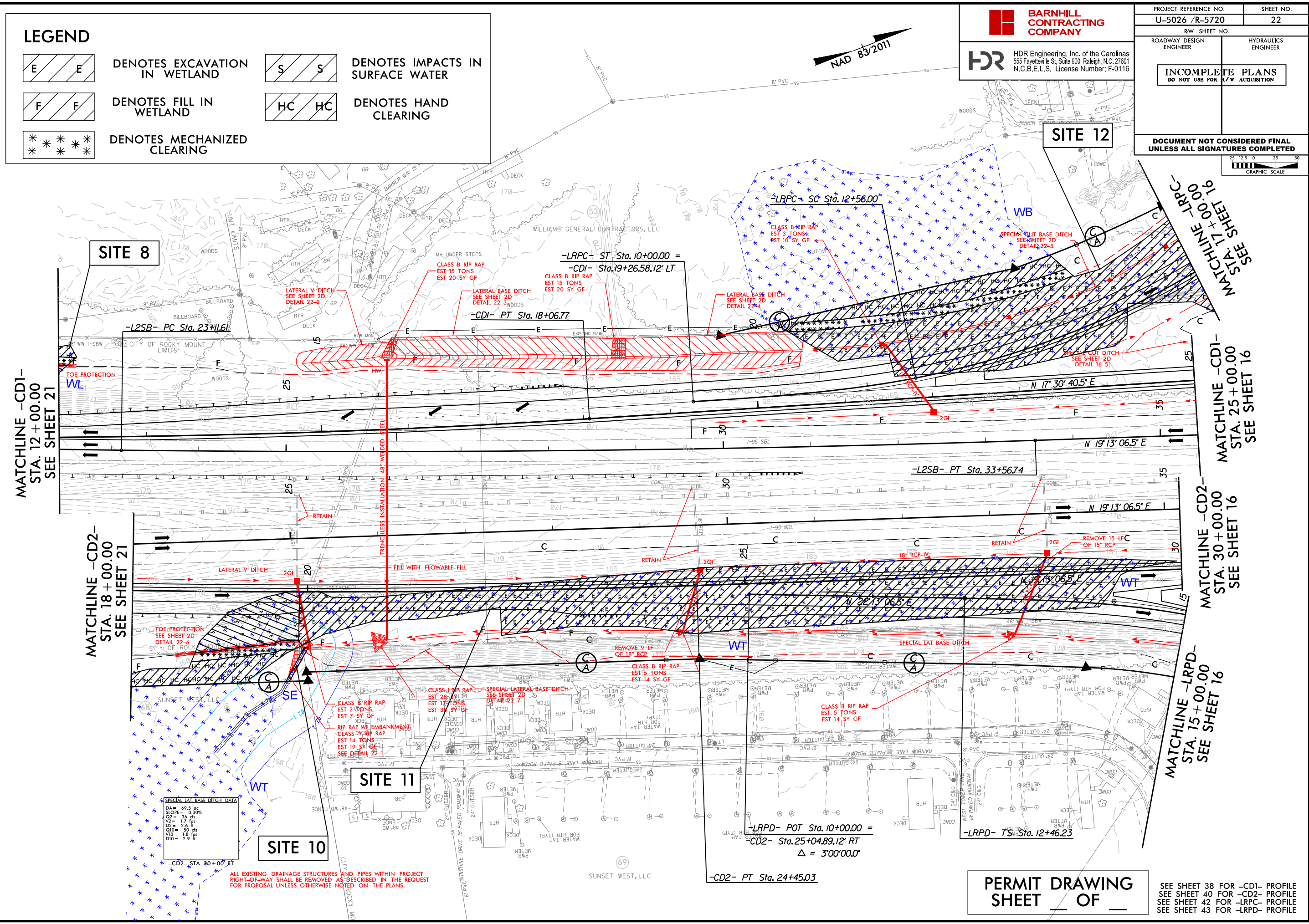
**LEGEND**

	DENOTES EXCAVATION IN WETLAND		DENOTES IMPACTS IN SURFACE WATER
	DENOTES FILL IN WETLAND		DENOTES HAND CLEARING
	DENOTES MECHANIZED CLEARING		

**BARNHILL CONTRACTING COMPANY**

HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 22
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR A/C ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



**SPECIAL LAT. BASE DITCH DATA**

DA =	69.5	oc
SLOPE =	0.00%	
D1 =	26	cf
D2 =	1.7	ft
D3 =	2.6	ft
D4 =	30	cf
D5 =	1.8	ft
D6 =	2.9	ft

ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

**PERMIT DRAWING**  
SHEET OF

SEE SHEET 38 FOR -CD1- PROFILE  
SEE SHEET 40 FOR -CD2- PROFILE  
SEE SHEET 42 FOR -LRPC- PROFILE  
SEE SHEET 43 FOR -LRPD- PROFILE

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
 USER: CMYERS  
 PENTABLE: NCDOT\_permits.CON.tbl  
 DATE: 3/27/2020  
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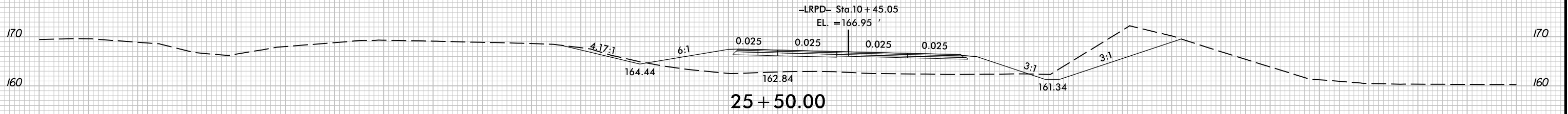
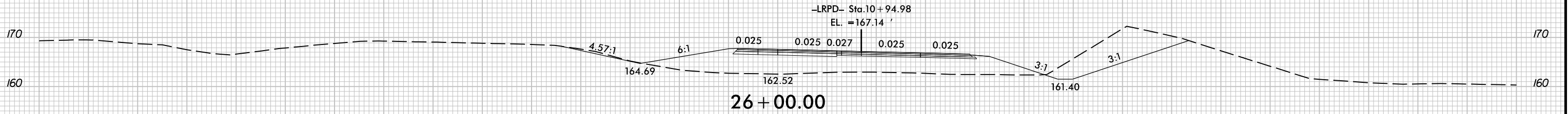
REVISIONS

8/23/99



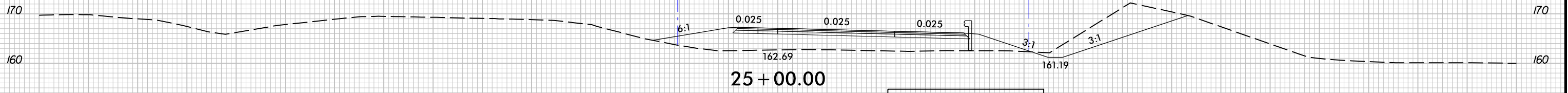
PROJ. REFERENCE NO.	SHEET NO.
U-5026/R-5720	X-150

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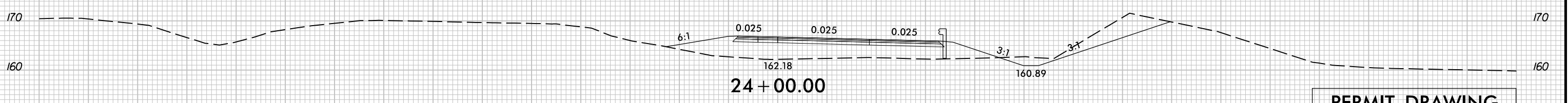
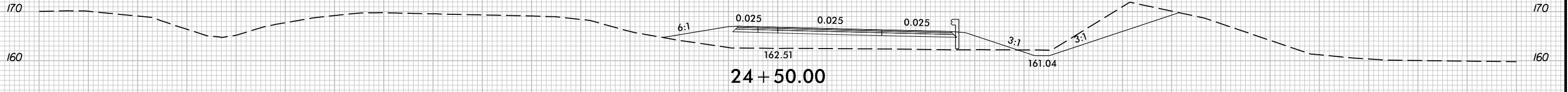


WETLANDS

WETLANDS



U-5026  
PERMIT SITE 11



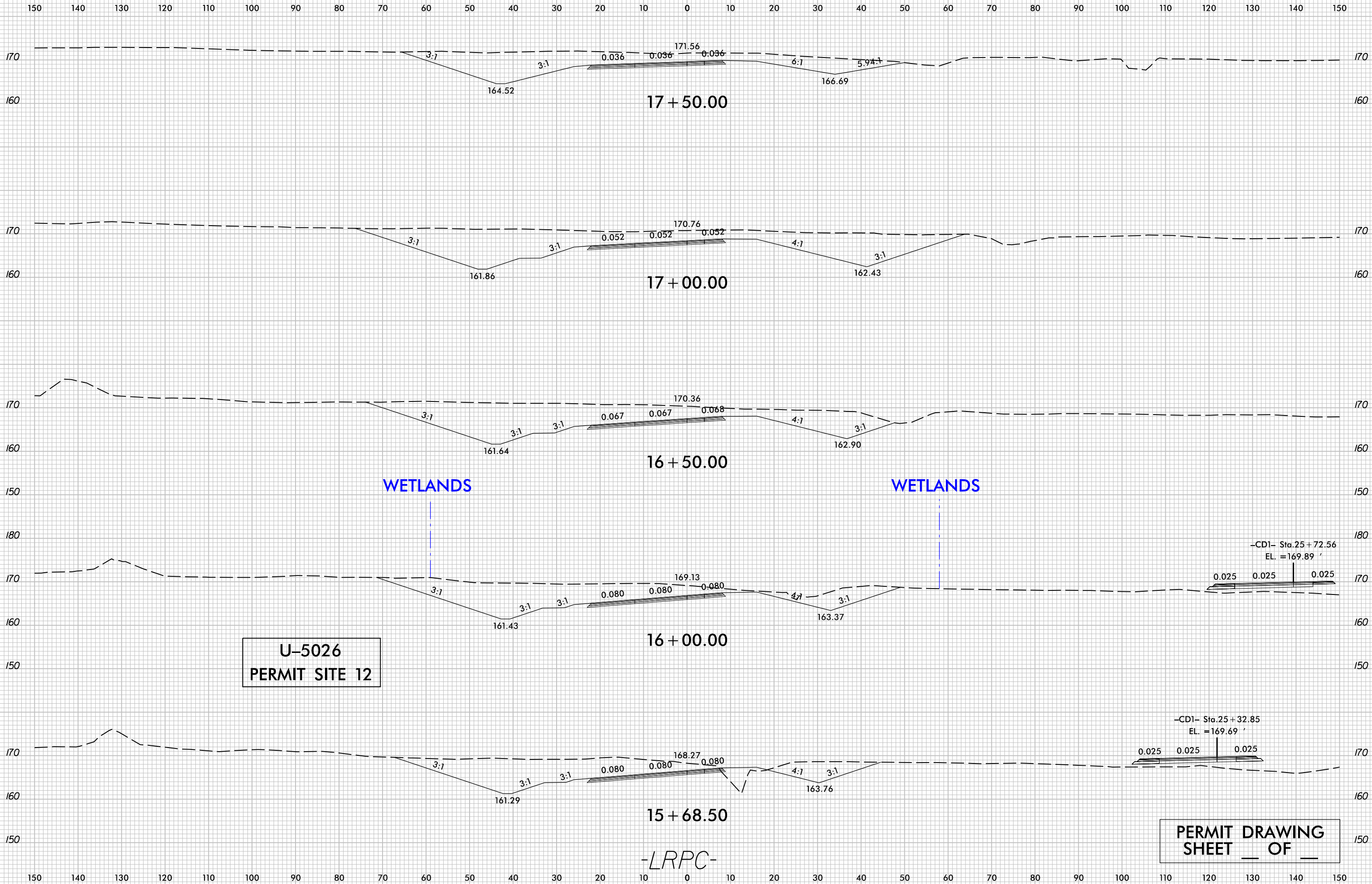
PERMIT DRAWING  
SHEET \_\_\_ OF \_\_\_

-CD2-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PLOT DRIVER: NCD01.pdf\_color\_eng\_100.plt  
USER: \_USERNAME\_ DATE: 3/26/2020 TIME: 2:47:29 PM  
FILE: U5026-R5720-PRM-XPL-CD2

8/23/99



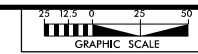
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 FILE: U5026\_R5720\_PRM\_XPL\_LRPC

U-5026  
 PERMIT SITE 12

PERMIT DRAWING  
 SHEET \_\_\_ OF \_\_\_

-LRPC-

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
 USER: CMYERS  
 DATE: 3/27/2020  
 TIME: 11:01:14 PM  
 FILE: BarnhillContracting\_Corp\Barnhill-Rocky\_Mount\DB\6.0\_CAD\_BIM\6.2\_WIP\Hydrolics\PERMITS\_Environment\Dr-awings\U5026-R5720-HYD-PRM-WET\_PSH.dgn



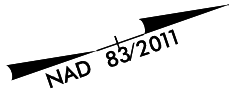
**BARNHILL CONTRACTING COMPANY**  
 HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
 N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

**LEGEND**

DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

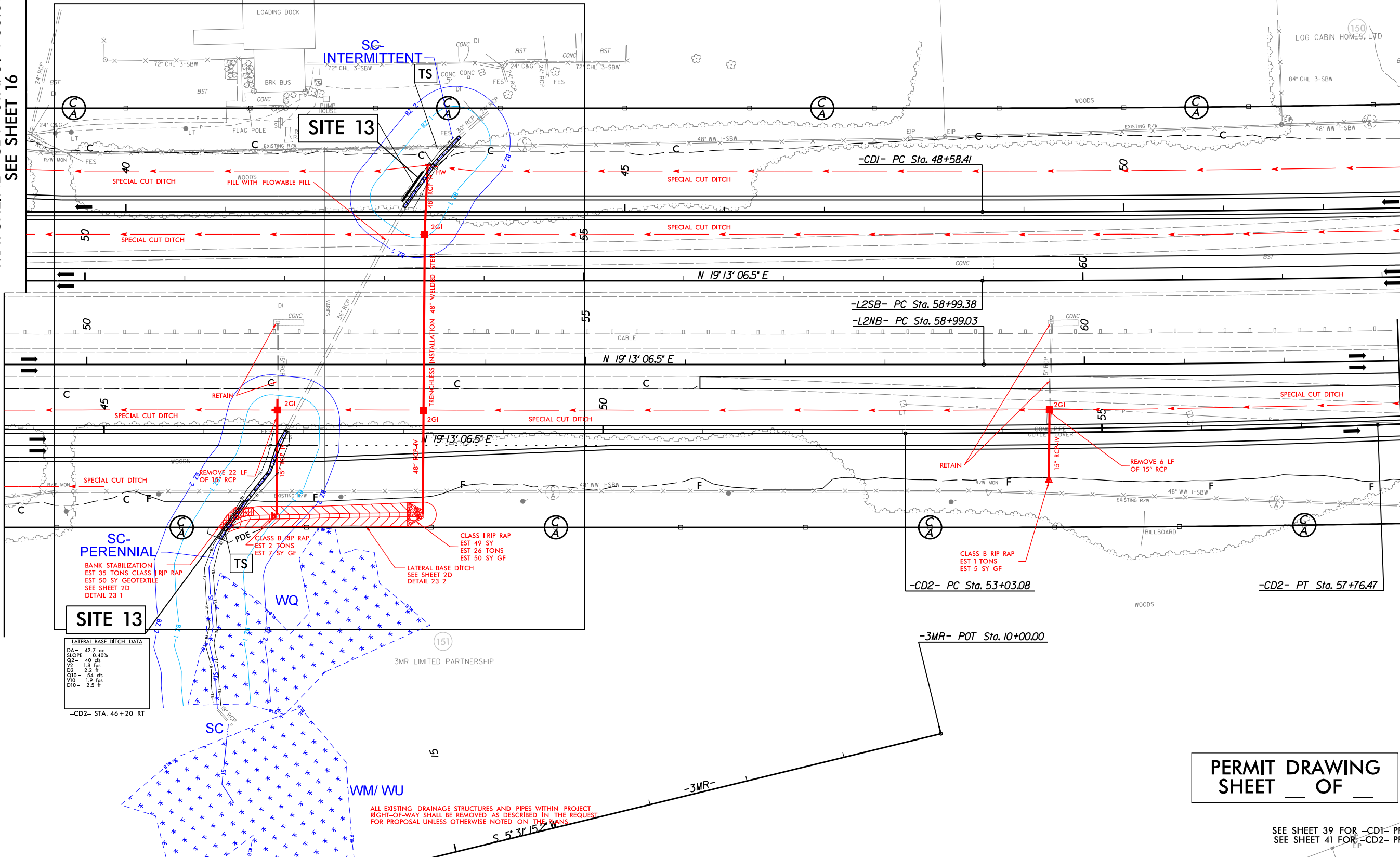


MATCHLINE -CD1- STA. 39+00.00, SEE SHEET 16

MATCHLINE -CD2- STA. 44+00.00, SEE SHEET 16

MATCHLINE -CD1- STA. 53+00.00 SEE SHEET 24

MATCHLINE -CD2- STA. 58+00.00, SEE SHEET 24



**LATERAL BASE DITCH DATA**

D4 =	42.7'
SLOPE =	0.40%
Q2 =	40 cfs
V2 =	1.8 fps
D2 =	2.2 ft
Q10 =	54 cfs
V10 =	1.9 fps
D10 =	2.5 ft

-CD2- STA. 46+20 RT

ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN PROJECT RIGHT-OF-WAY SHALL BE REMOVED AS DESCRIBED IN THE REQUEST FOR PROPOSAL UNLESS OTHERWISE NOTED ON THE PLANS.

**PERMIT DRAWING**  
 SHEET      OF     

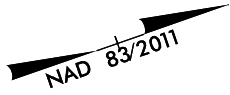
SEE SHEET 39 FOR -CD1- PROFILE  
 SEE SHEET 41 FOR -CD2- PROFILE

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
 USER: CMYERS  
 DATE: 3/27/2020  
 FILE: Barnhill Contracting\_Corp\Barnhill-Rocky\_Mount\DB\6.0\_CAD\_BIM\6.2\_WIP\Hydrolics\PERMITS\_Environment\U5026-R5720-HYD\_PEM\_WET\_PSH.dgn

REVISIONS

MATCHLINE -CD2- STA. 44 + 00.00,  
 SEE SHEET 16

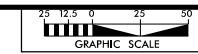
MATCHLINE -CD1- STA. 39 + 00.00,  
 SEE SHEET 16



**LEGEND**

DENOTES IMPACTS IN SURFACE WATER

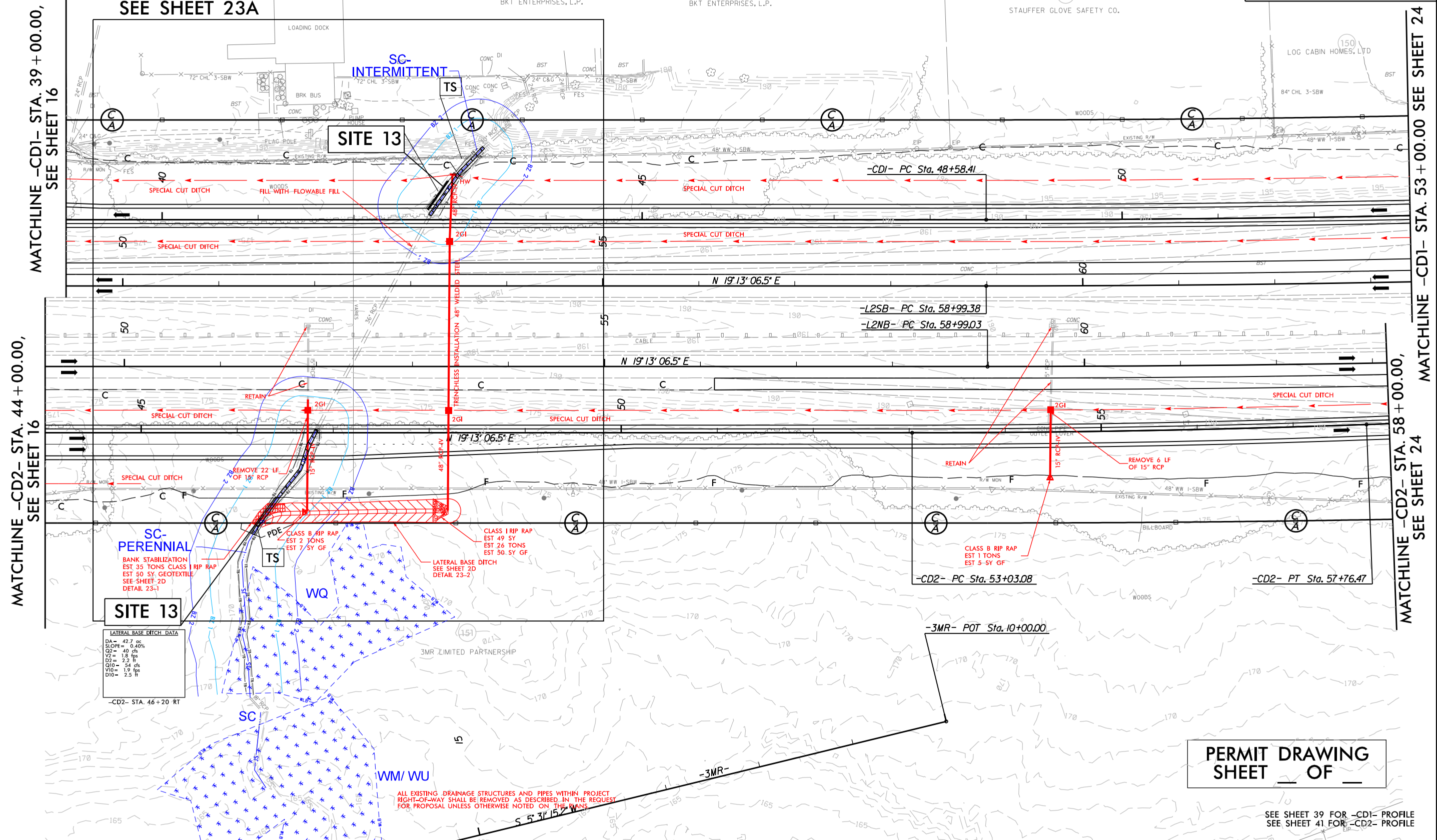
DENOTES TEMPORARY IMPACTS IN SURFACE WATER



**BARNHILL CONTRACTING COMPANY**

**HDR** HDR Engineering, Inc. of the Carolinas  
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601  
 N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



**LATERAL BASE DITCH DATA**

D4 = 42.7'
SLOPE = 0.40%
Q2 = 40 cfs
V2 = 1.8 fps
D2 = 2.2 ft
Q10 = 54 cfs
V10 = 1.9 fps
D10 = 2.5 ft

**PERMIT DRAWING**  
 SHEET      OF     

SEE SHEET 39 FOR -CD1- PROFILE  
 SEE SHEET 41 FOR -CD2- PROFILE

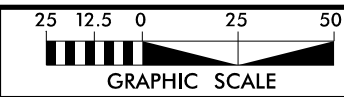
**LEGEND**



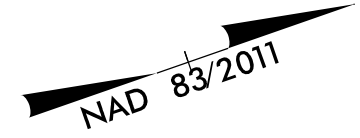
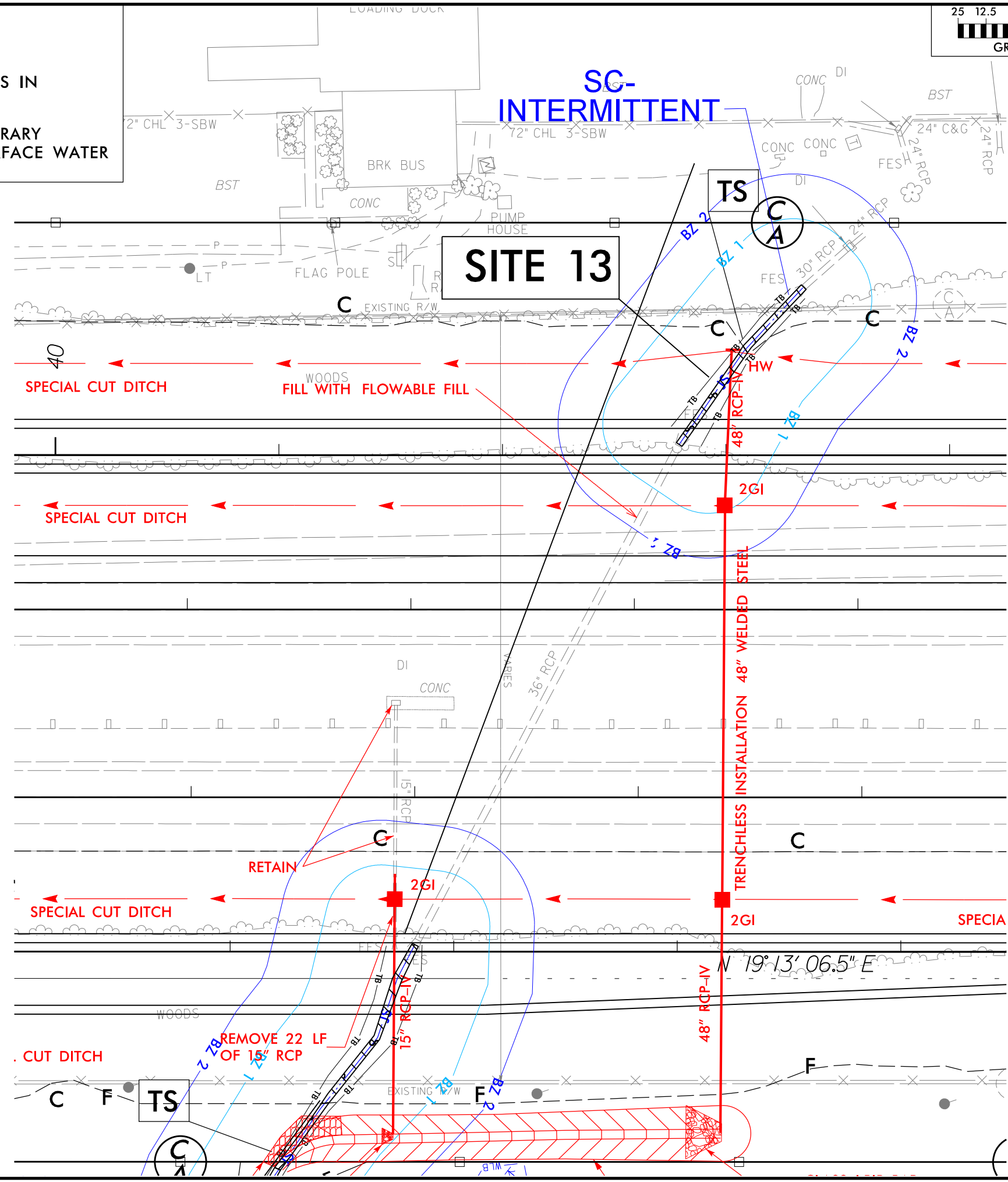
DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. U-5026 /R-5720	SHEET NO. 23A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



PERMIT DRAWING  
SHEET \_\_\_ OF \_\_\_

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
 USER: CMYERS  
 DATE: 3/27/2020  
 TIME: 1:10:19 PM  
 FILE: Barnhill Contracting\_Corp\Barnhill-Rocky\_Mount\_DB\6.0\_CAD\_BIM\6.2\_WIP\Hydraulics\PERMITS\_Environment\Drawings\U5026-R5720-HYD-PRM-WET\_PSH.dgn

REVISIONS

**WETLAND AND SURFACE WATER IMPACTS 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 (Pond) (ac)	Permanent SW impacts (Stream) (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	14+06 - 14+44 -L- LT	BANK AND SCOUR HOLE STABILIZATION						< 0.01	< 0.01	47	10		
2	36+90 - 37+63 -L- LT	ROADWAY FILL						< 0.01		142			
2	36+90 - 37+63 -L- LT	BANK STABILIZATION						< 0.01	< 0.01	20	10		
3	40+13 - 41+21 -L-	10' X 7' RCBC						0.03		137			
3	40+13 - 41+21 -L- LT	CHANNEL RELOCATION						0.01	< 0.01	88	10		
3	L	CHANNEL RELOCATION			< 0.01			< 0.01	< 0.01	20	10		
4	40+60 - 41+83 -L- LT	ROADWAY FILL	0.13			0.04							
5	155+5 -L- LT	48" RCP-IV						< 0.01		45			
5	155+5 -L- LT	OUTLET CHANNEL PROTETCION						< 0.01	< 0.01	16	4		
6	183+5 - 189+91, 192+80 - 197+07 -L- LT	ROADWAY FILL/ CHANNEL RELOCATION						0.10	< 0.01	1139	49		
7	197+00 - 198+00 -L- LT	ROADWAY FILL / BASE DITCH						0.01		178			
7	197+00 - 198+00 -L- LT	BANK STABILIZATION						< 0.01	< 0.01	53	10		
8	14+88 - 16+34, 21+41 - 22+56 -L2SB- LT	ROADWAY FILL	0.06			0.06	0.04						
9	14+34 - 16+96, 17+07 - 18+37 -L2NB- RT	ROADWAY FILL	0.24			0.07	0.14						
10	20+00 -CD2- RT	ROADWAY FILL						< 0.01		44			
11	18+61 -CD2- RT TO 29+95 -CD2- CL	ROADWAY CUT/FILL, BASE DITCH	0.38		0.96	0.03	0.06						
12	11+00 -LRPC- LT TO 17+46 -LRPC- CL	ROADWAY EXCAVATION			0.95	0.17	0.17						
13	42+72 - 43+20 -CD1- LT	48" RCP-IV						< 0.01	< 0.01	52	39		
13	51+34 - 51+97 -L2NB- RT	ROADWAY FILL						< 0.01		82			
13	51+34 - 51+97 -L2NB- RT	15" RCP / BANK STABILIZATION						< 0.01	< 0.01	37	10		
14	11+82 - 12+41 -L2SB- LT	ROADWAY CLEARING					0.05						
15	12+49 - 12+81 -L2NB-	ROADWAY CLEARING					< 0.01						
<b>TOTALS* THIS SHEET:</b>			<b>0.81</b>		<b>1.92</b>	<b>0.38</b>	<b>0.46</b>		<b>0.20</b>	<b>0.01</b>	<b>2100</b>	<b>152</b>	
<b>TOTALS* ENTIRE U-5026:</b>			<b>0.81</b>		<b>1.92</b>	<b>0.38</b>	<b>0.46</b>		<b>0.20</b>	<b>0.01</b>	<b>2100</b>	<b>152</b>	

\*Rounded totals are sum of actual impacts.

NOTES:

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 MARCH 2020  
 NASH COUNTY  
 TIP U-5026  
 STATE PROJ. # 44033.3.3  
 SHEET OF