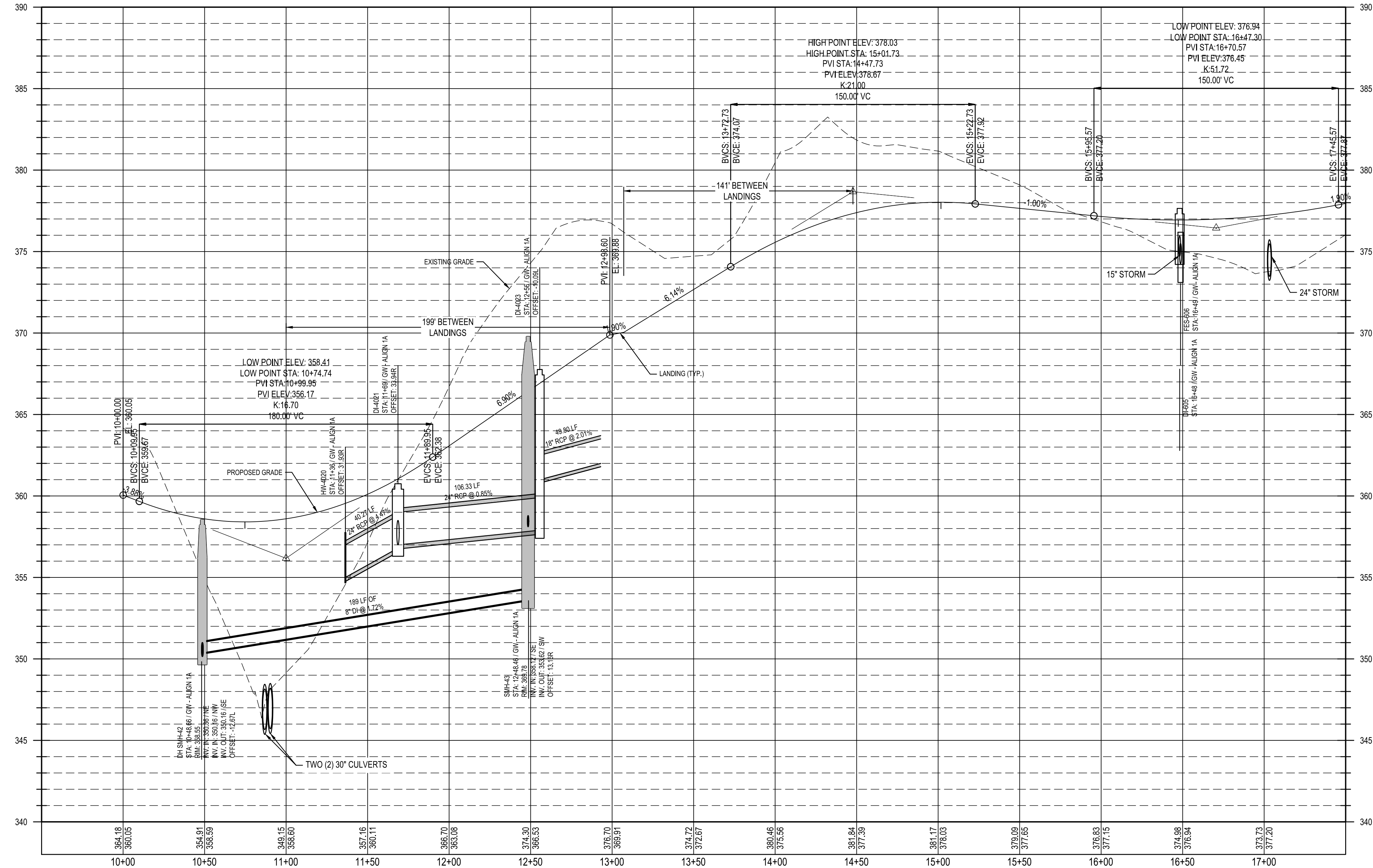


GW - ALIGN 1A  
STA: 9+50.00 TO STA: 17+50.00



<p><b>Public</b> Water Distribution / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # WI-4107 Authorization to Construct. See digital signature.</p>	<p><b>Public</b> Sewer Collection / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # S-5439 Authorization to Construct. See digital signature.</p>
---	--

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only on the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval \_\_\_\_\_  
Raleigh Water Review Officer \_\_\_\_\_



02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE / W/C COMMENTS
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD  
DRAWN BY: DF/JWM  
REVIEWED BY: DF

**BCE**  
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RALEIGH NC 27607  
WWW.BCEINC.COM  
NC LICENSE #C-4397

**LENNAR**  
**CORPORAION**  
1100 PERIMETER PARK DRIVE, SUITE 112  
MORRISVILLE / NORTH CAROLINA / 27560

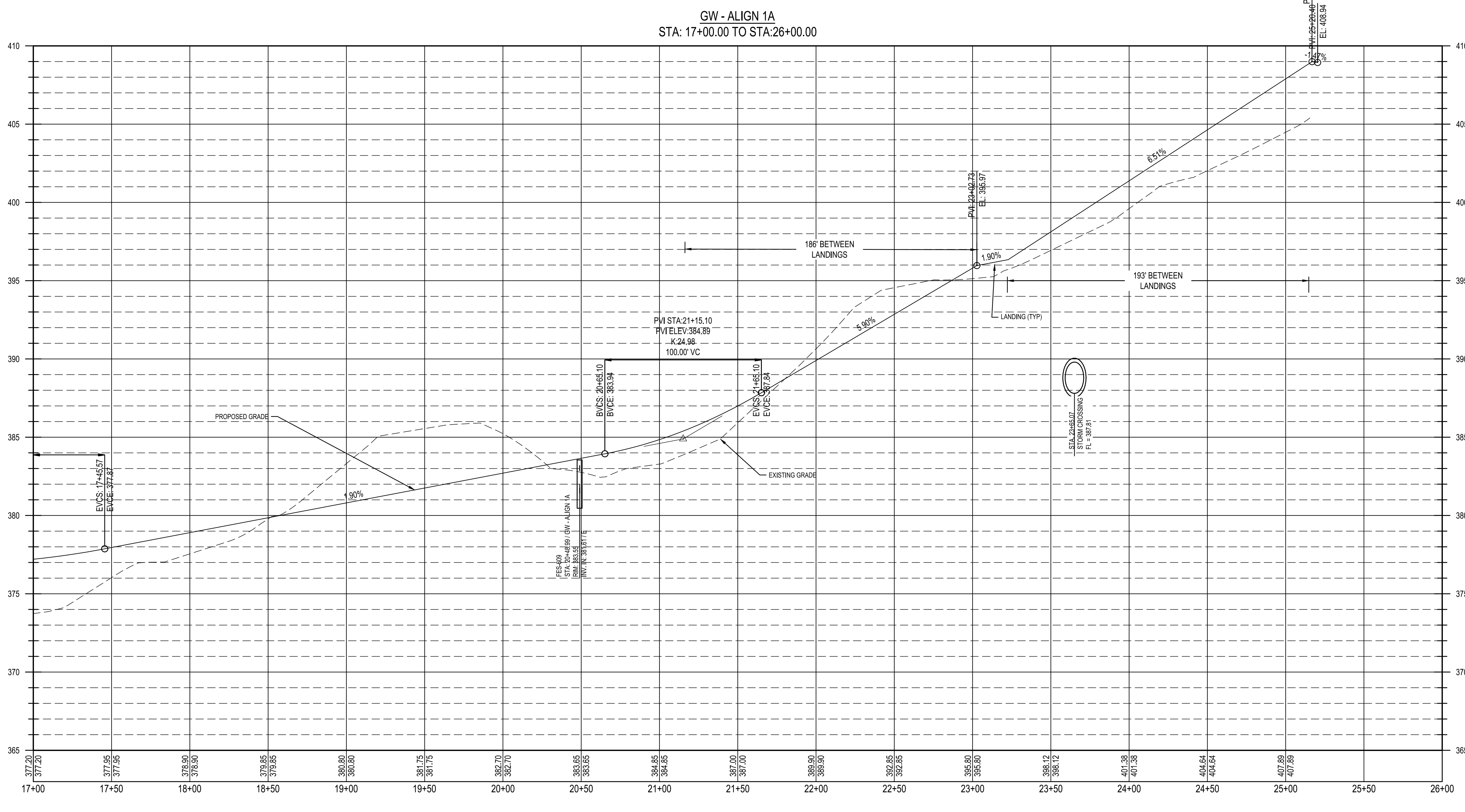
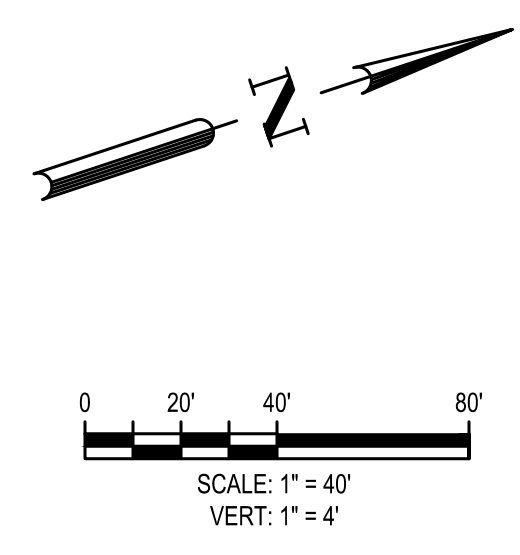
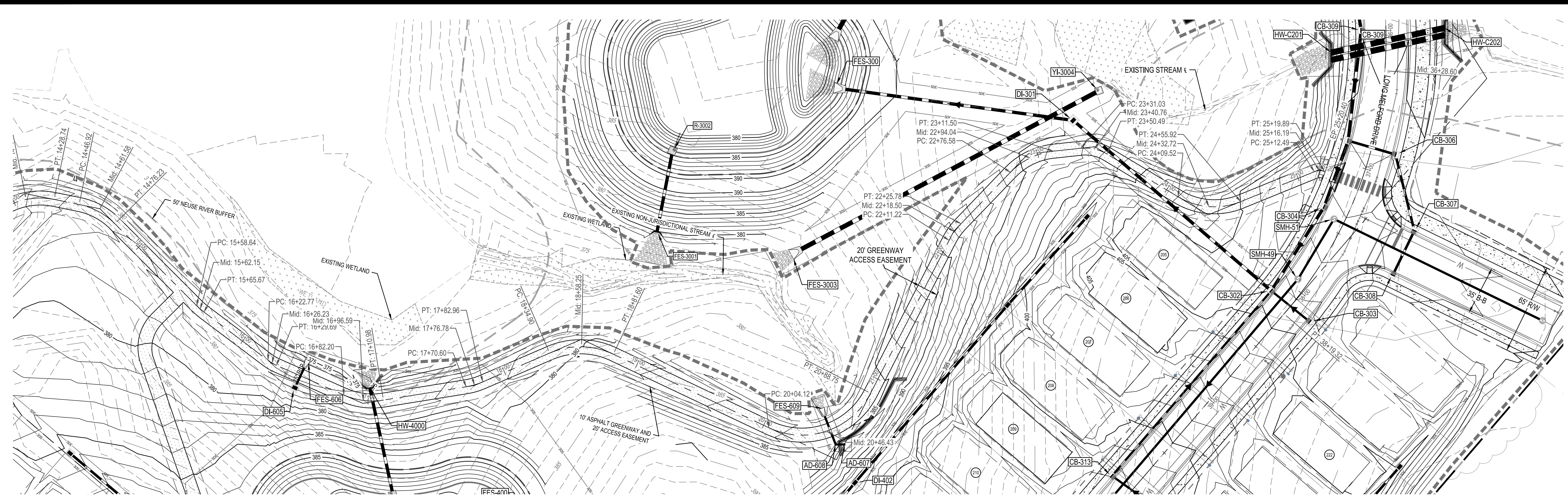
**PARKER RIDGE**  
82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**GW1A GREENWAY PLAN**  
**AND PROFILE (1 OF 2)**

Professional Engineer Seal: NORTH CAROLINA PROFESSIONAL ENGINEER, SEAL 028892, DELORA M. FERNANDEZ, 3/13/2024.

FILE NUMBER: 8430-03  
DATE: 03/04/2024  
C6-18





<p><b>Public</b> Water Distribution / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # WI-4107 Authorization to Construct. See digital signature.</p>	<p><b>Public</b> Sewer Collection / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # S-5439 Authorization to Construct. See digital signature.</p>
---	--

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval \_\_\_\_\_  
Raleigh Water Review Officer \_\_\_\_\_

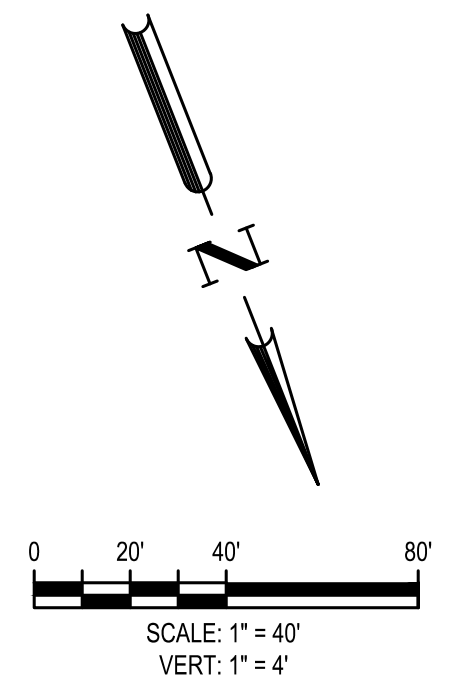
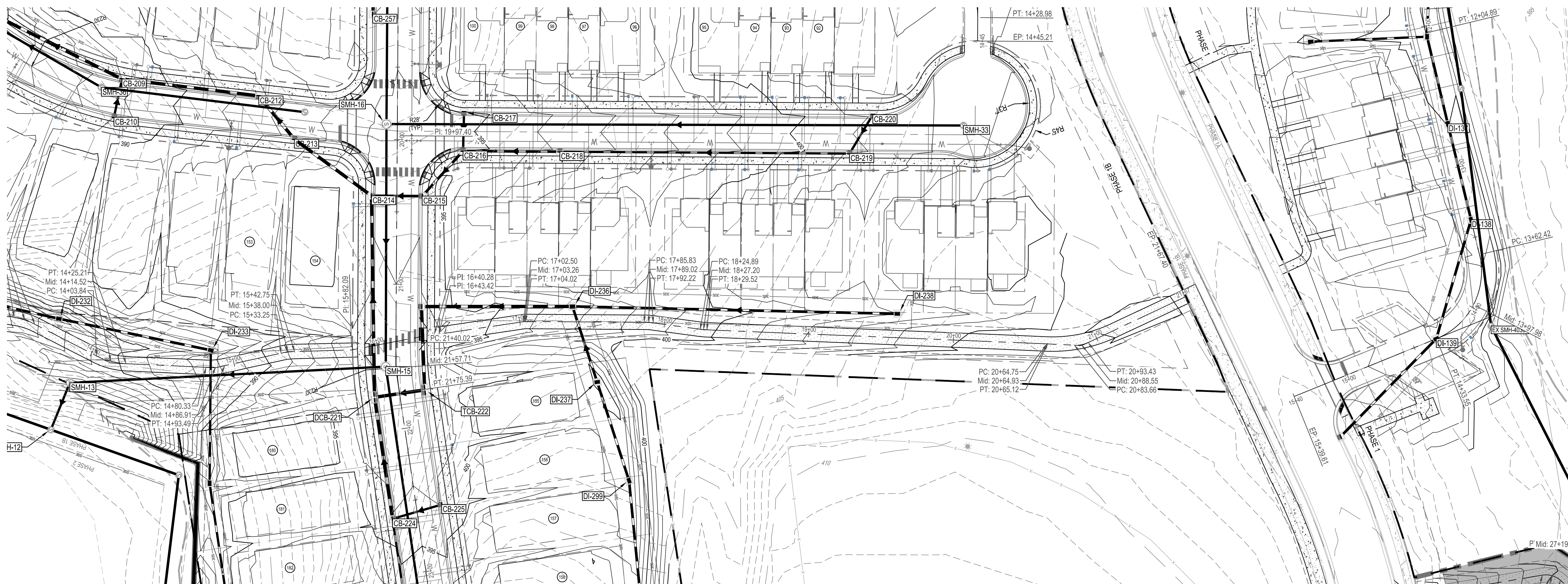


02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE COMMENT
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV 06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF
<p>5440 WADE PARK BLVD, SUITE 102 RALEIGH NC 27607 WWW.BCEINC.COM NC LICENSE #C-4387 ©2023</p>	
<p><b>LENNAR</b> CORPORAION 1100 PERIMETER PARK DRIVE, SUITE 112 MORRISVILLE / NORTH CAROLINA / 27560</p>	
<p><b>PARKER RIDGE</b> 82 SCHOOL STREET ROLESVILLE / NORTH CAROLINA / 27571</p>	
<p><b>GW1A GREENWAY PLAN AND PROFILE (2 OF 2)</b></p>	
<p>City of Raleigh Public Utilities Department Permit # S-5439 Authorization to Construct. See digital signature.</p>	
<p>FILE NUMBER: 8430-03</p>	
<p>DATE: 03/04/2024</p>	
<p>C6-19</p>	

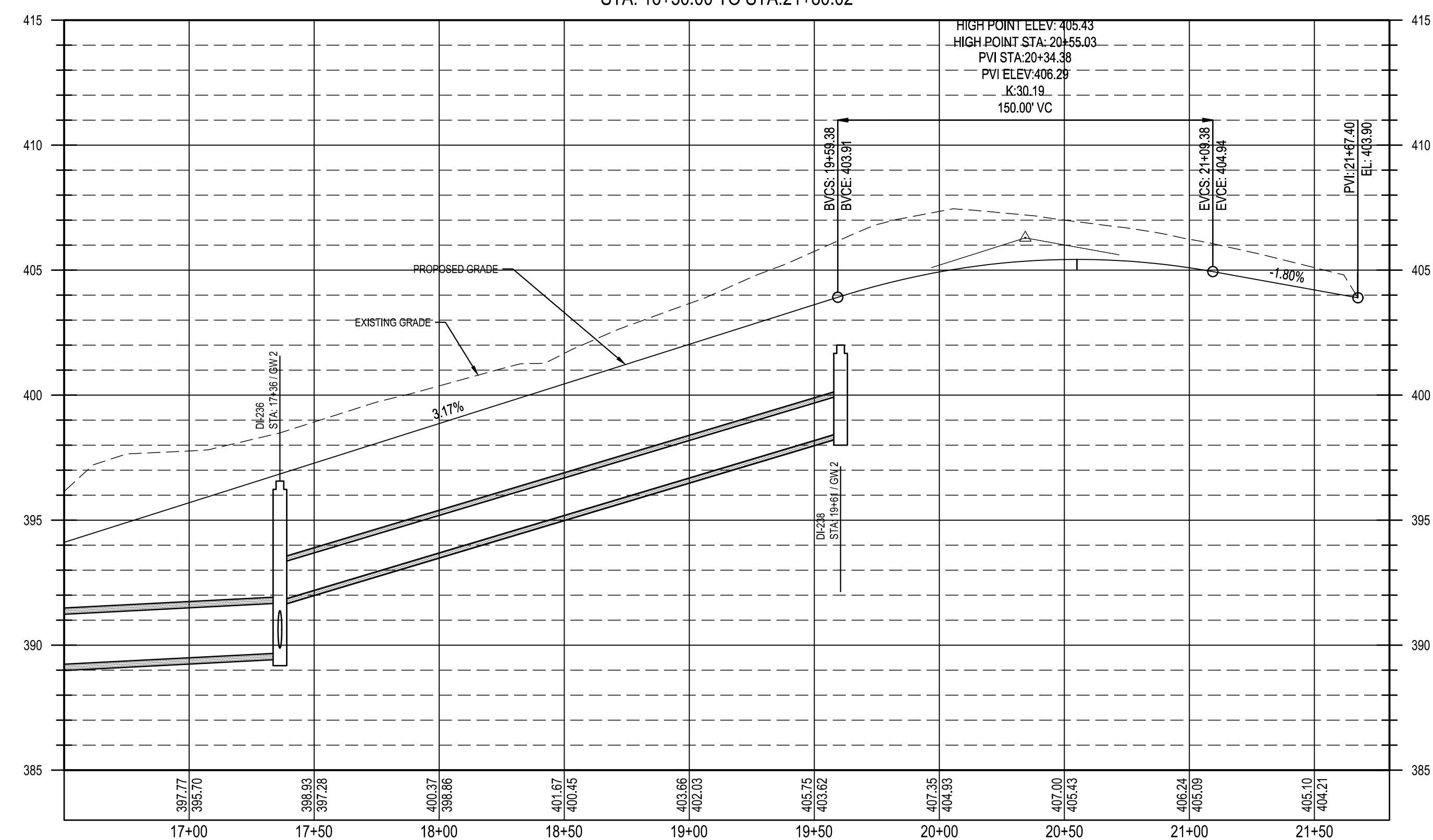








GW 2  
STA: 16+50.00 TO STA:21+80.02



<p><b>Public</b> Water Distribution / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # WI-4107 Authorization to Construct: <u>See digital signature</u></p>	<p><b>Public</b> Sewer Collection / Extension System</p> <p>The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.</p> <p>City of Raleigh Public Utilities Department Permit # S-5439 Authorization to Construct: <u>See digital signature</u></p>
---	--

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval \_\_\_\_\_  
Raleigh Water Review Officer \_\_\_\_\_



REV	DATE	DESCRIPTION
02/14/2024	PER TOWN OF ROLESVILLE COMMENT	
11/2/2024	PER TOWN OF ROLESVILLE / WC COMMENTS	
11/21/2023	PER TOWN OF ROLESVILLE COMMENT	
10/02/2023	PER TOWN OF ROLESVILLE COMMENT	
08/01/2023	PER TOWN OF ROLESVILLE COMMENT	
06/01/2023	PER TOWN OF ROLESVILLE COMMENT	
	INITIAL SUBMITTAL	

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NC LICENSE #C-4387

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CORPORAION  
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MORRISVILLE / NORTH CAROLINA / 27560

**PARKER RIDGE**  
82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**GW2 GREENWAY PLAN AND PROFILE (2 OF 2)**

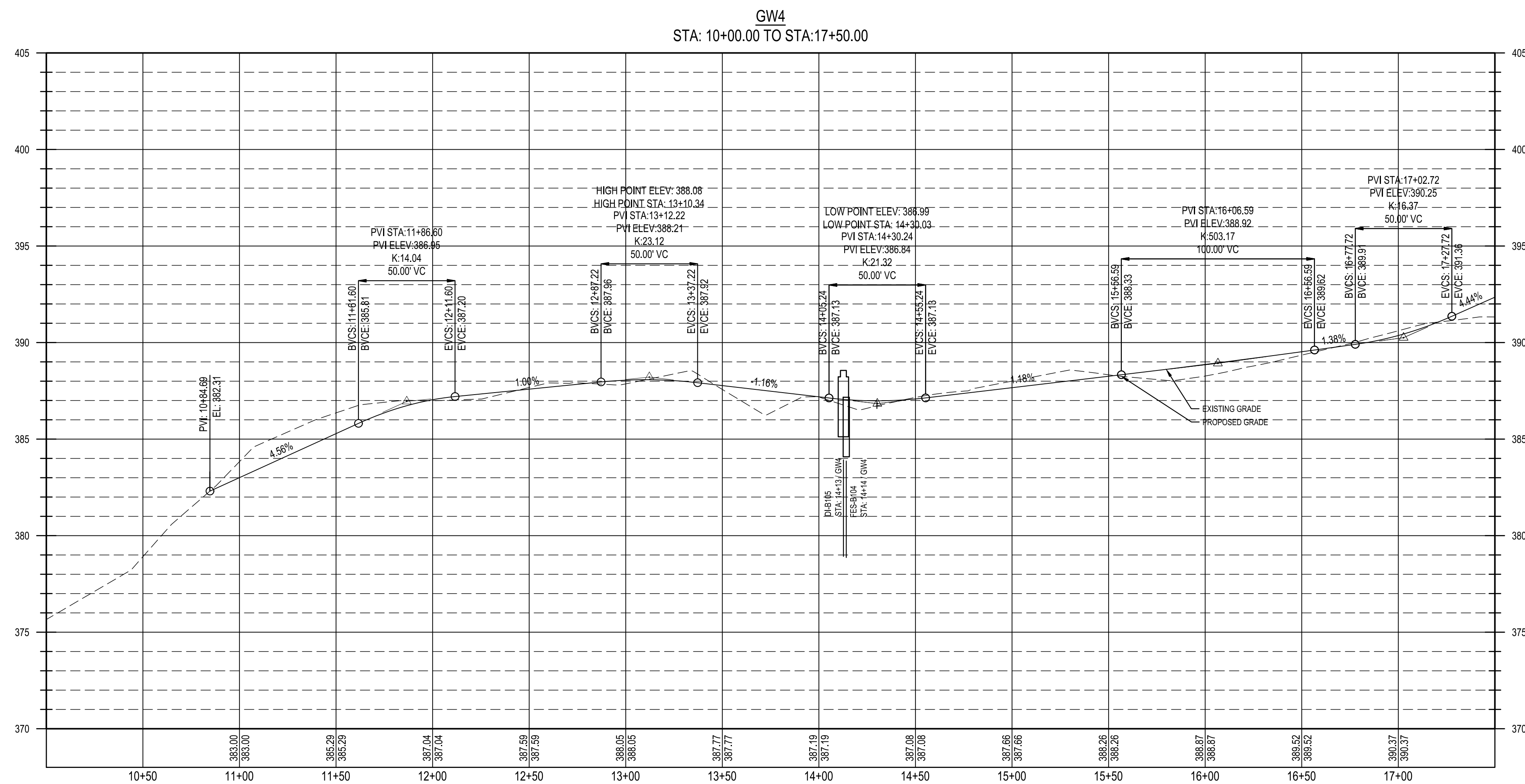
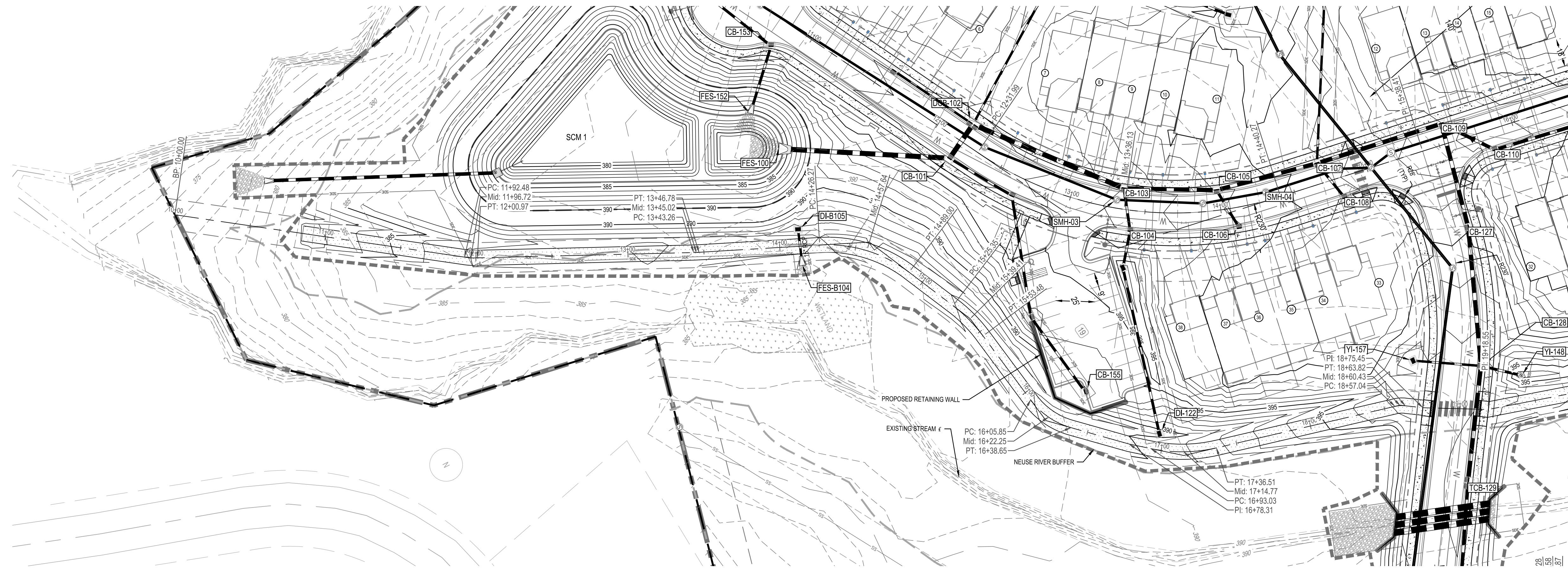
Professional Engineer Seal for **DEBRA M. FERN**, License No. 028892, dated 3/13/2024.

FILE NUMBER: 8430-03  
DATE: 03/04/2024  
C6-21









**Public**  
Water Distribution / Extension System  
The City of Raleigh consents to the correction and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh  
Public Utilities Department Permit # WI-4107  
Authorization to Construct. See digital signature.

**Public**  
Sewer Collection / Extension System  
The City of Raleigh consents to the correction and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh  
Public Utilities Department Permit # S-5439  
Authorization to Construct. See digital signature.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION  
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City of Raleigh Development Approval \_\_\_\_\_  
Raleigh Water Review Officer \_\_\_\_\_



02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV 06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD  
DRAWN BY: DF/JWM  
REVIEWED BY: DF

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**PARKER RIDGE**  
82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**GW4 GREENWAY PLAN AND PROFILE (1 OF 2)**

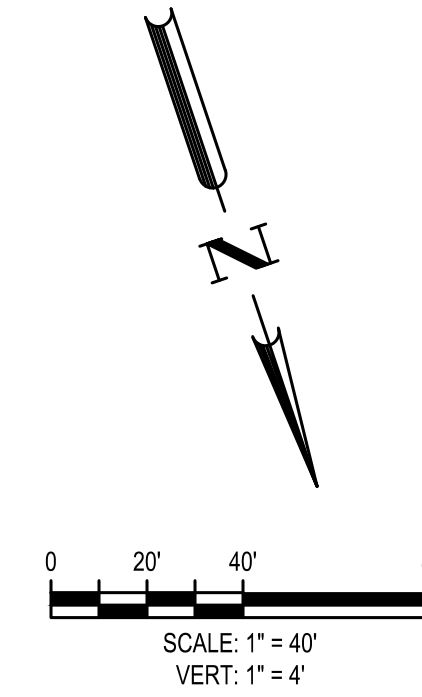
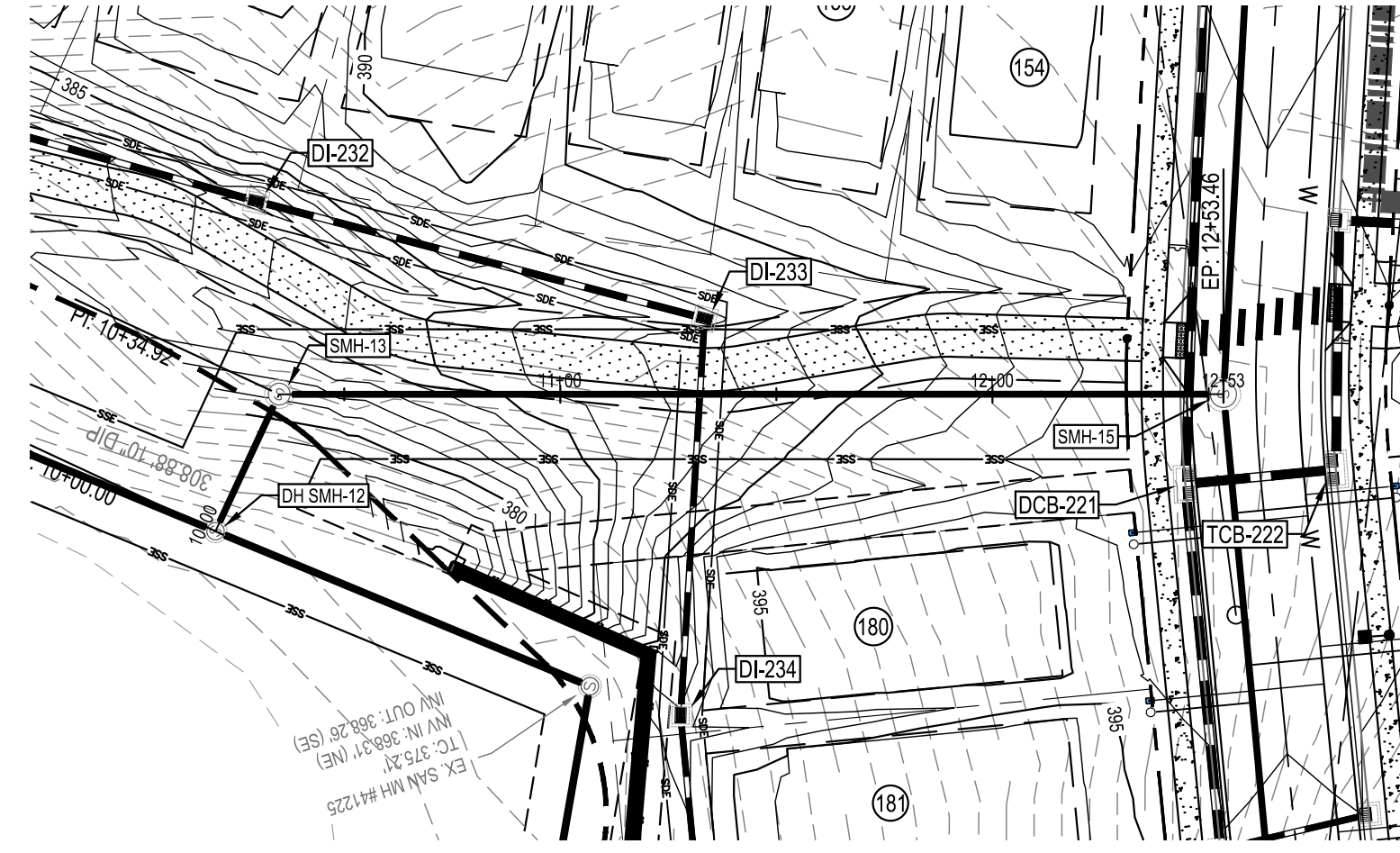
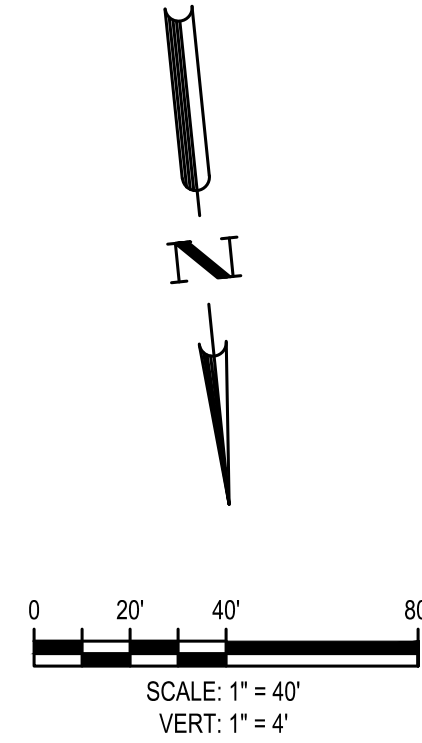
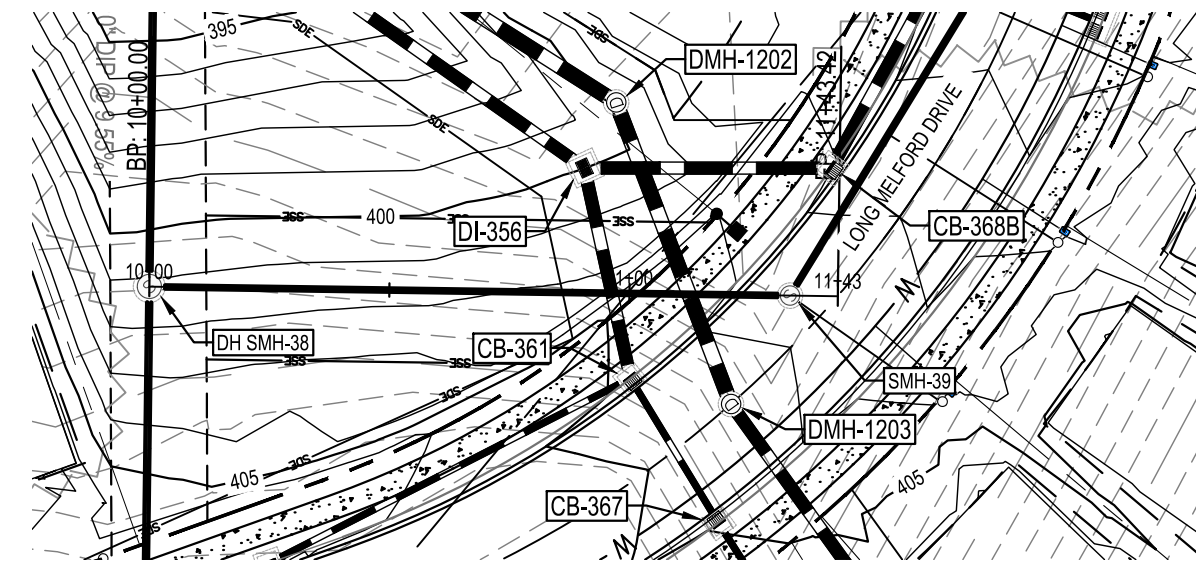
City of Raleigh Professional Engineer Seal  
SEAL 028892  
DORA FERN  
3/13/2024

FILE NUMBER: 8430-03  
DATE: 03/04/2024  
C6-23

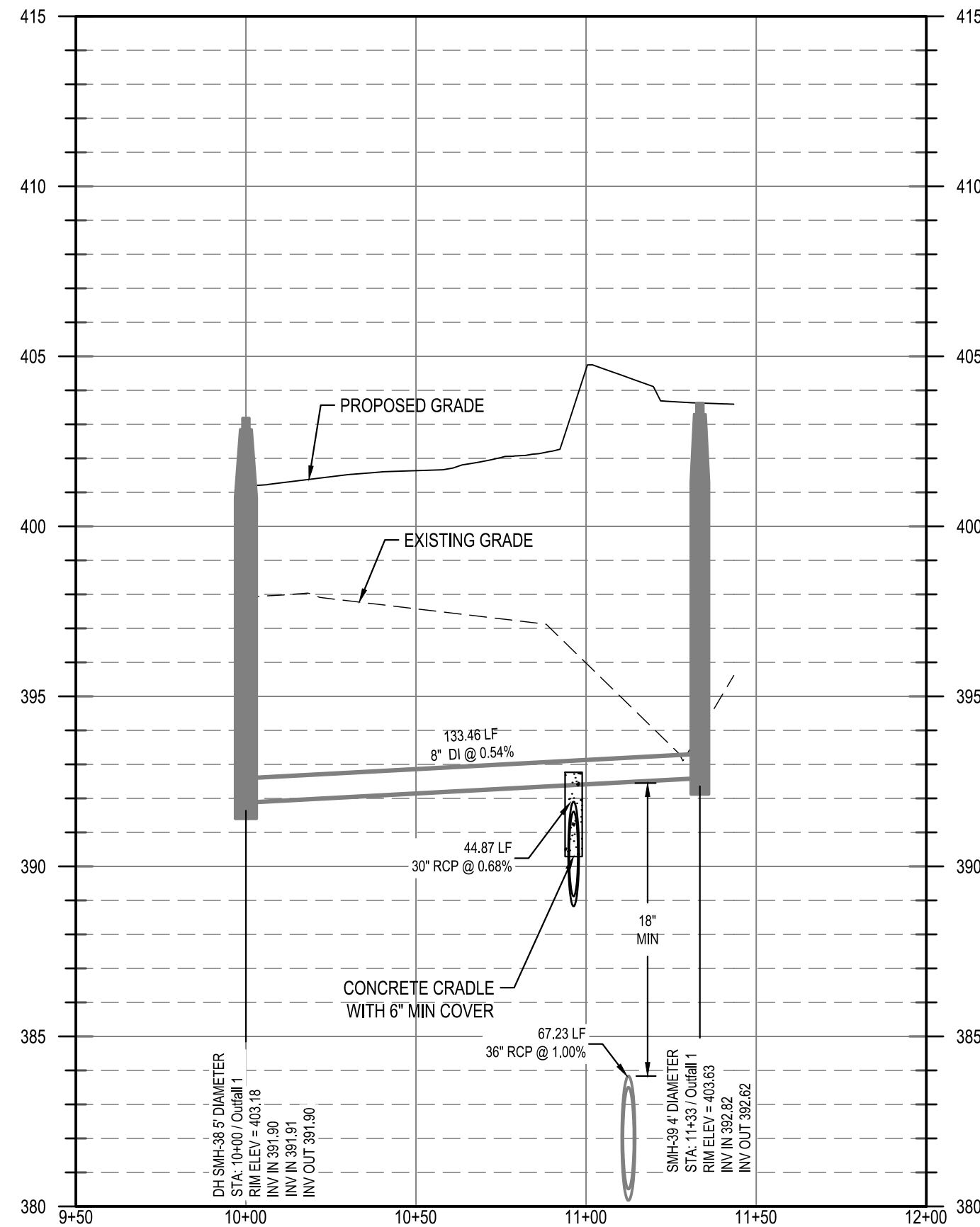




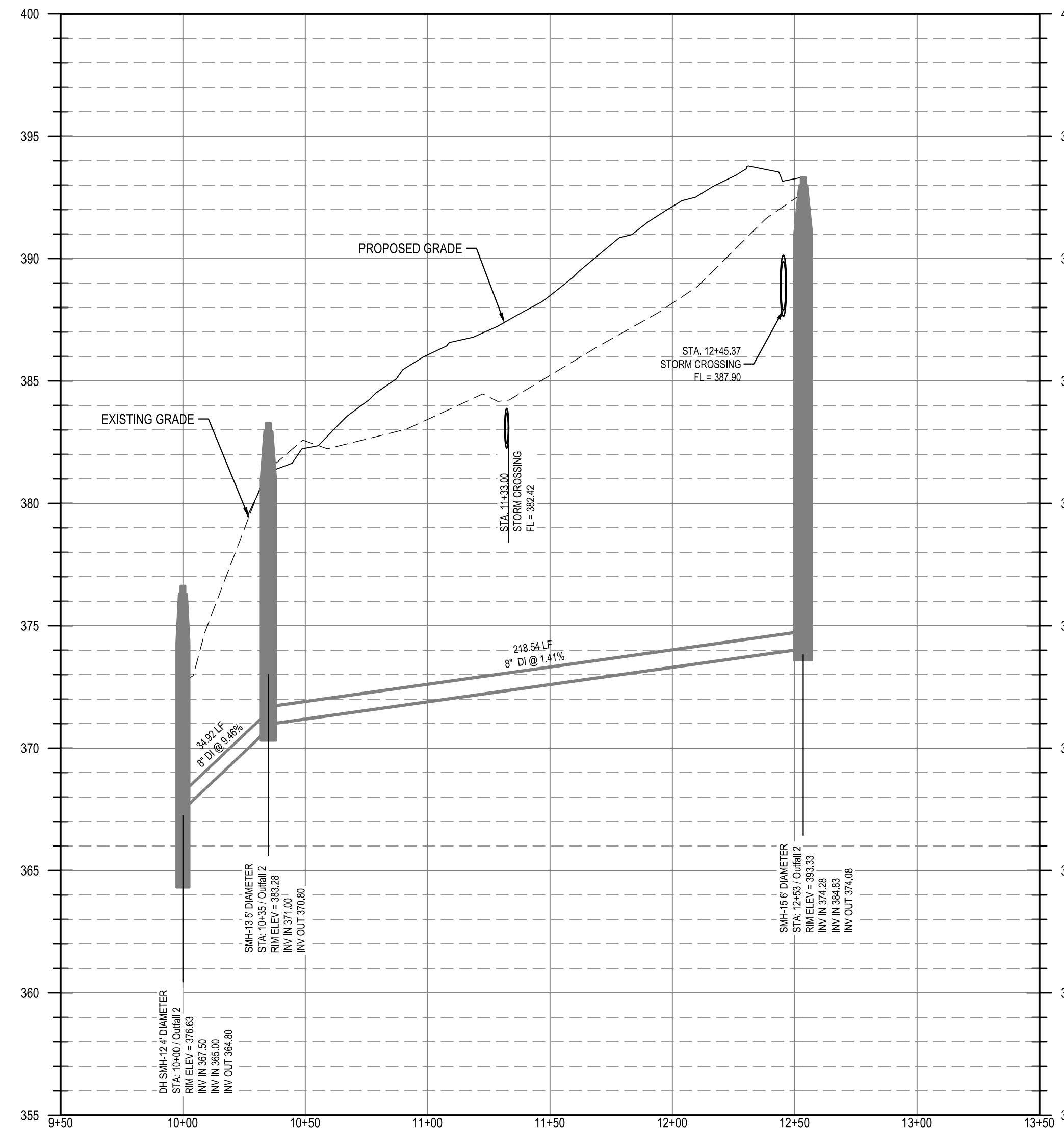




Outfall 1  
STA: 9+50.00 TO STA: 12+00.00



Outfall 2  
STA: 9+50.00 TO STA: 13+50.00



**Public**  
Water Distribution / Extension System  
The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.  
City of Raleigh  
Public Utilities Department Permit # WI-4107  
Authorization to Construct: See digital signature.

**Public**  
Sewer Collection / Extension System  
The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.  
City of Raleigh  
Public Utilities Department Permit # S-5439  
Authorization to Construct: See digital signature.

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City of Raleigh Development Approval \_\_\_\_\_  
Raleigh Water Review Officer \_\_\_\_\_



02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE COMMENT
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV	INITIAL SUBMITTAL

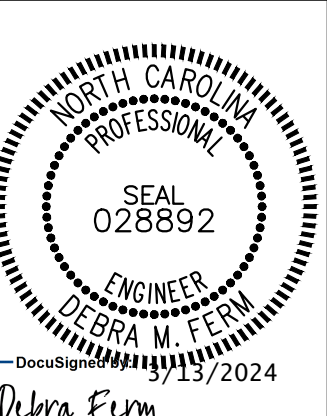
DESIGNED BY: DF/CD  
DRAWN BY: DF/JWM  
REVIEWED BY: DF

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CORPORAION  
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MORRISVILLE / NORTH CAROLINA / 27560

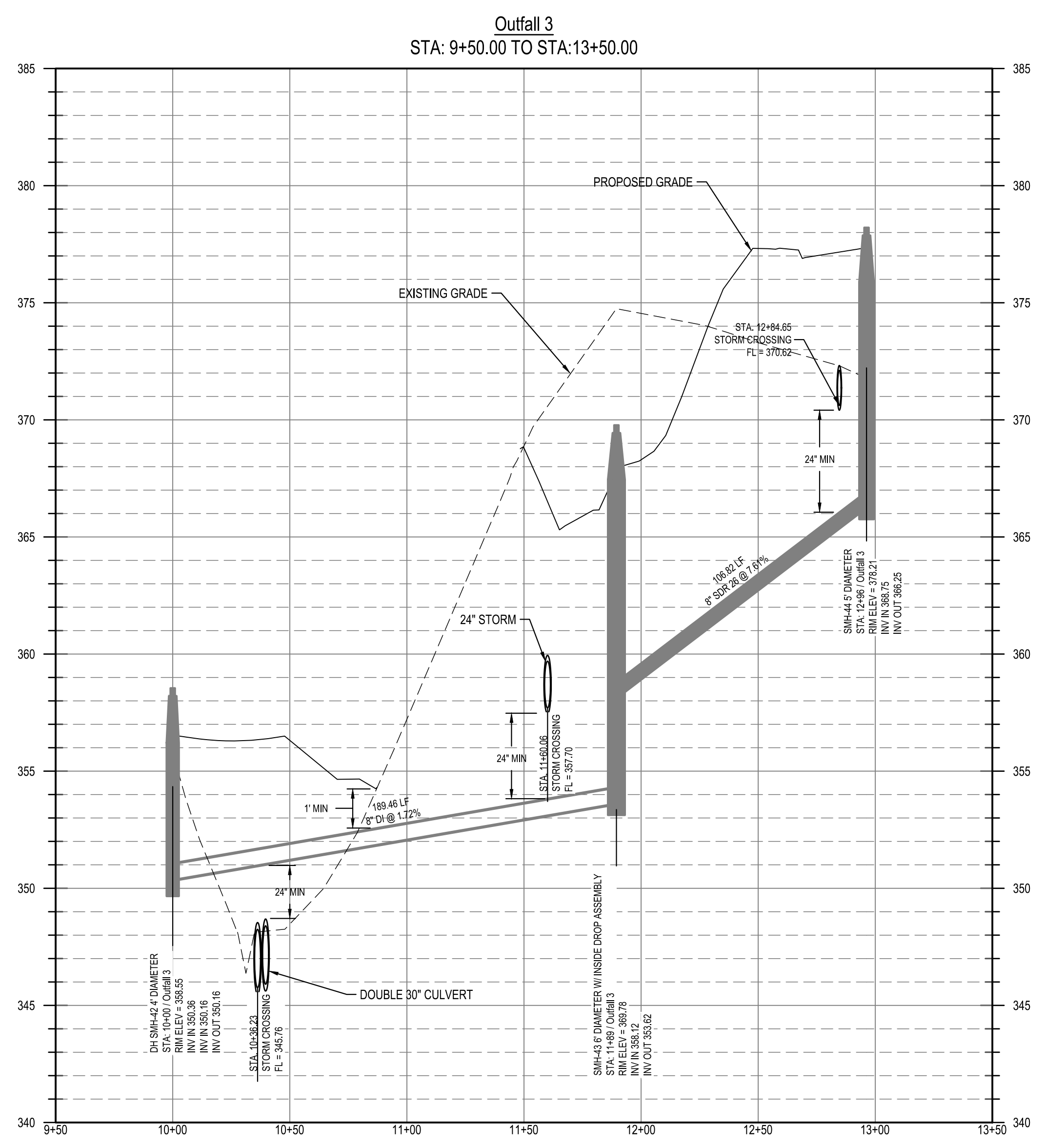
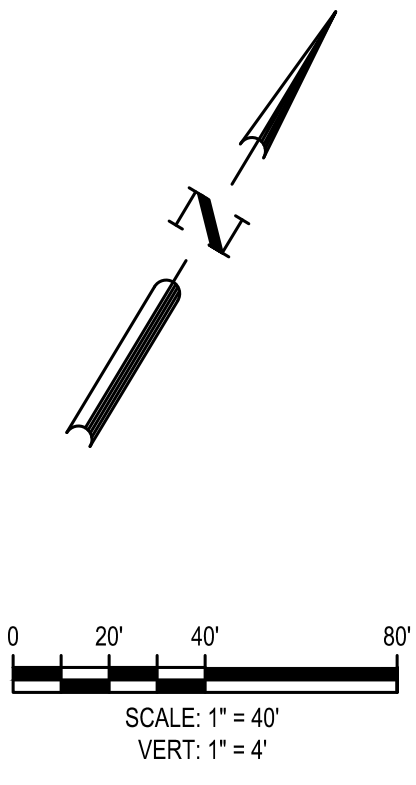
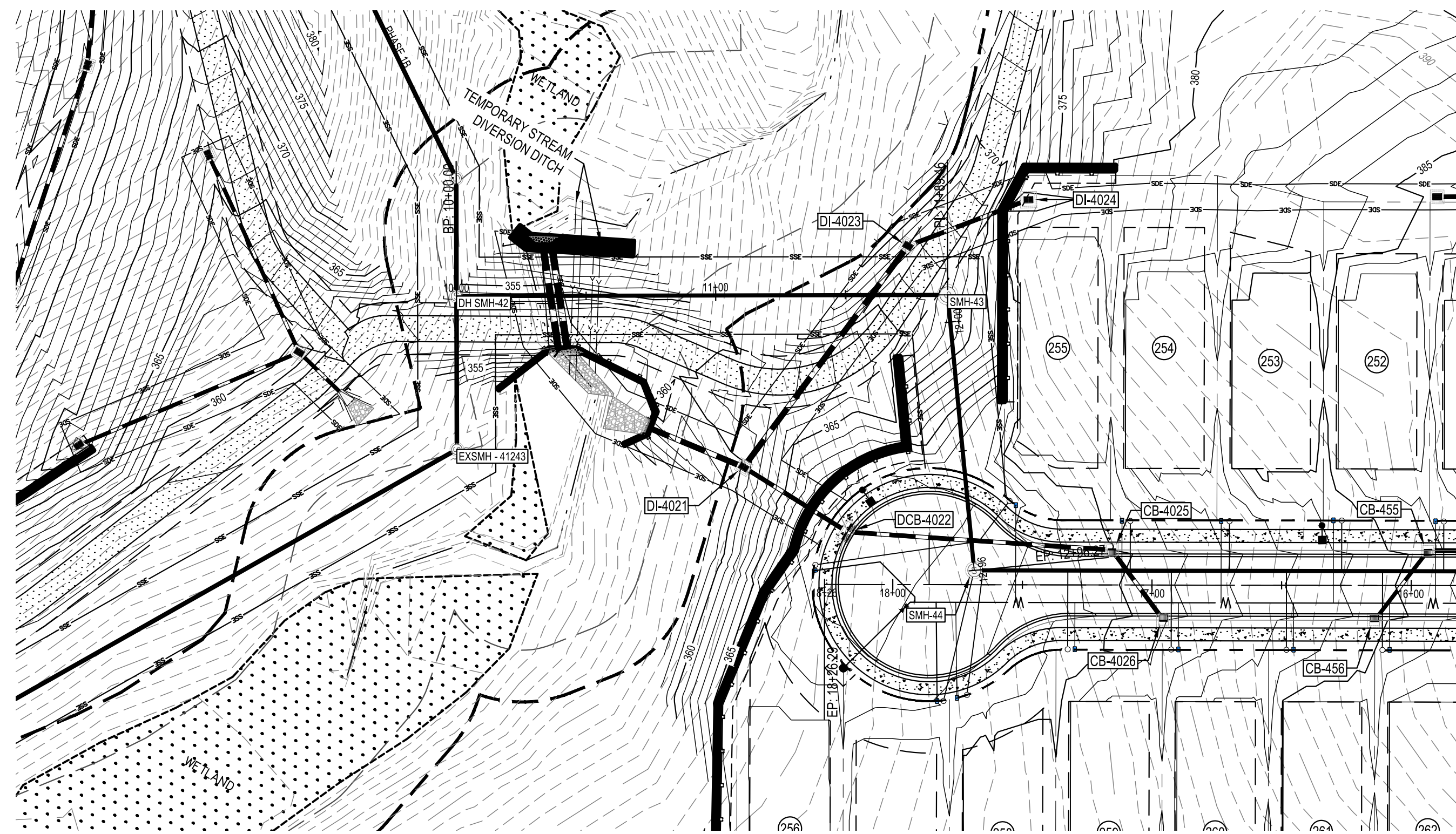
**PARKER RIDGE**  
82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

SEWER OUTFALL 1 AND 2  
PLAN AND PROFILE



FILE NUMBER:  
8430-03  
DATE: 03/04/2024  
C6-25





**Public**  
**Water Distribution / Extension System**  
 The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.  
 City of Raleigh  
 Public Utilities Department Permit # WI-4107  
 Authorization to Construct: See digital signature

**Public**  
**Sewer Collection / Extension System**  
 The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.  
 City of Raleigh  
 Public Utilities Department Permit # S-5439  
 Authorization to Construct: See digital signature

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 City of Raleigh Development Approval: \_\_\_\_\_  
 Raleigh Water Review Officer: \_\_\_\_\_



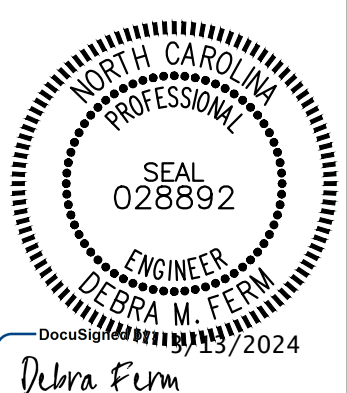
02/14/2024	PER TOWN OF ROLESVILLE COMMENT	
11/2/2024	PER TOWN OF ROLESVILLE / WC COMMENTS	
11/21/2023	PER TOWN OF ROLESVILLE COMMENT	
10/02/2023	PER TOWN OF ROLESVILLE COMMENT	
08/01/2023	PER TOWN OF ROLESVILLE COMMENT	
REV	06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD  
 DRAWN BY: DF/JWM  
 REVIEWED BY: DF

**BCE**  
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 RALEIGH NC 27607  
 WWW.BCEINC.COM  
 NC LICENSE #C-4397

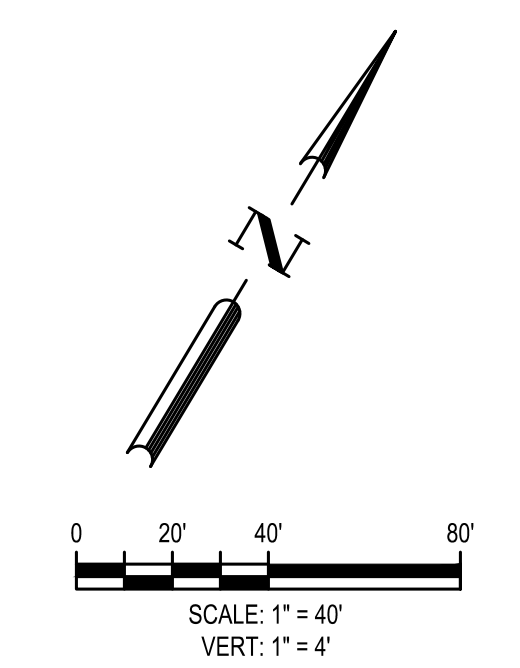
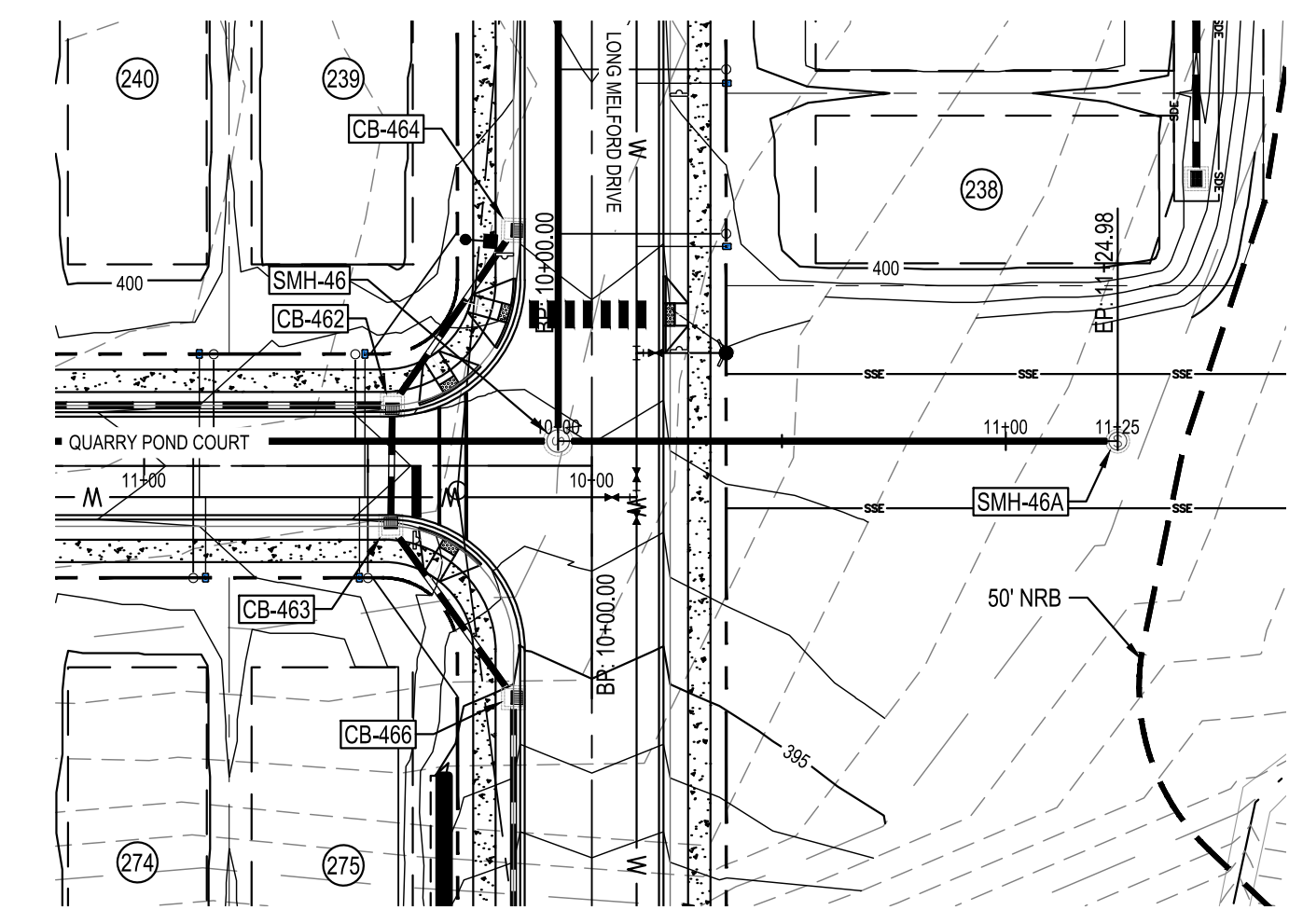
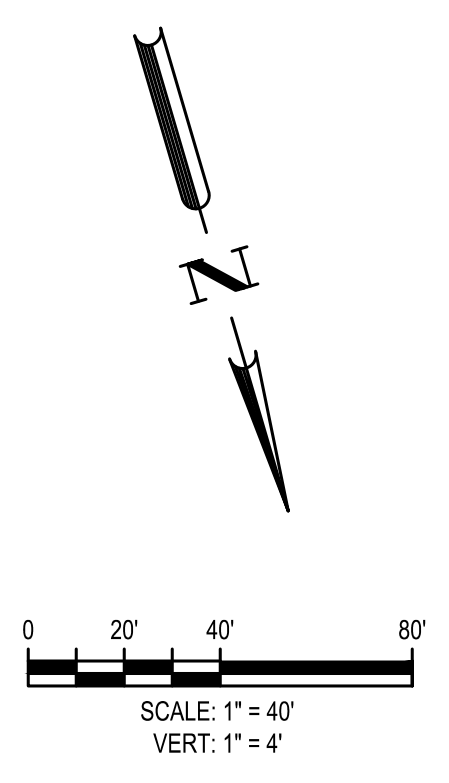
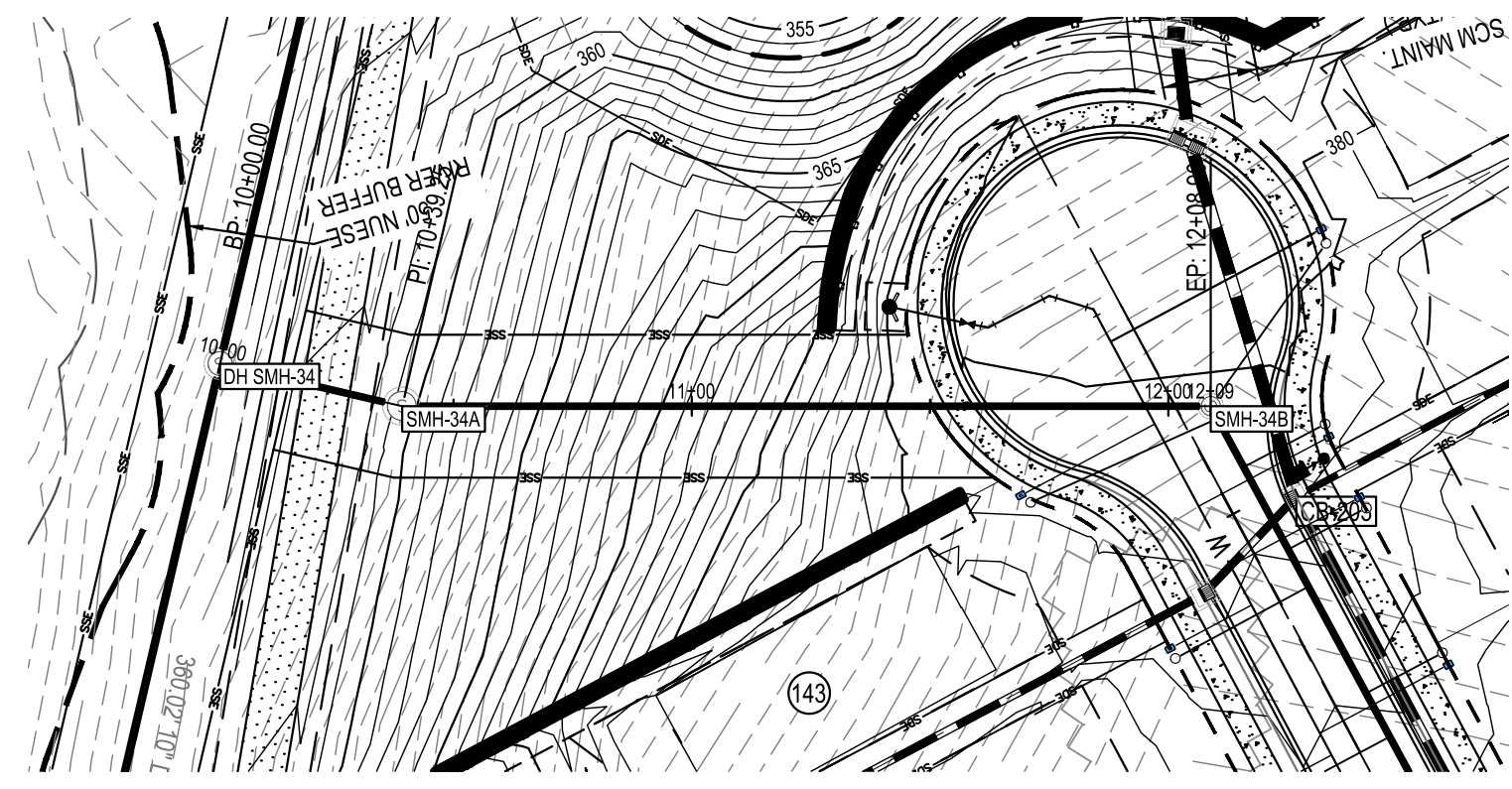
**LENNAR**  
**CORPORAION**  
 1100 PERIMETER PARK DRIVE, SUITE 112  
 MORRISVILLE / NORTH CAROLINA / 27560

**PARKER RIDGE**  
 82 SCHOOL STREET  
 ROLESVILLE / NORTH CAROLINA / 27571

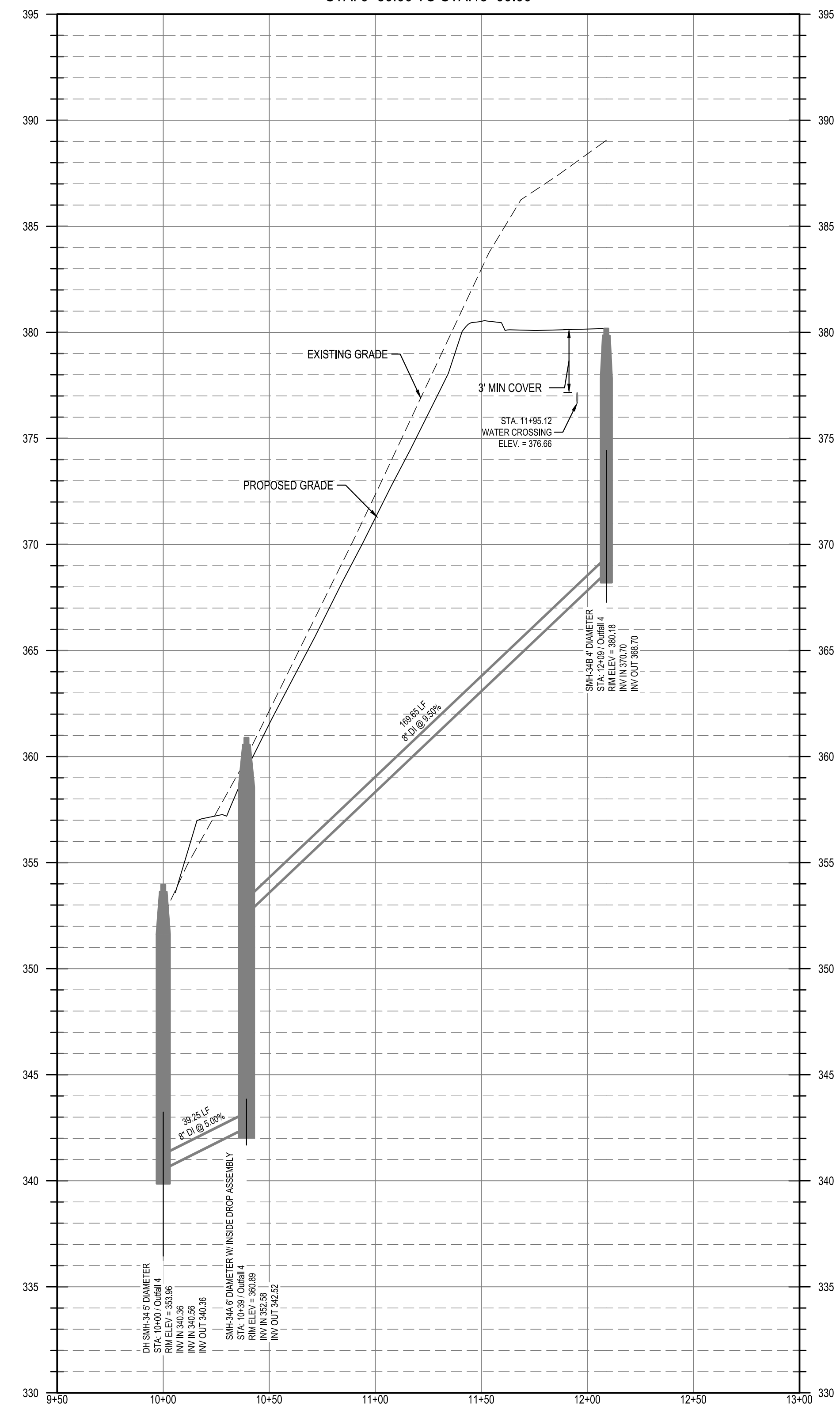


FILE NUMBER:  
 8430-03  
 DATE: 03/04/2024  
**C6-26**

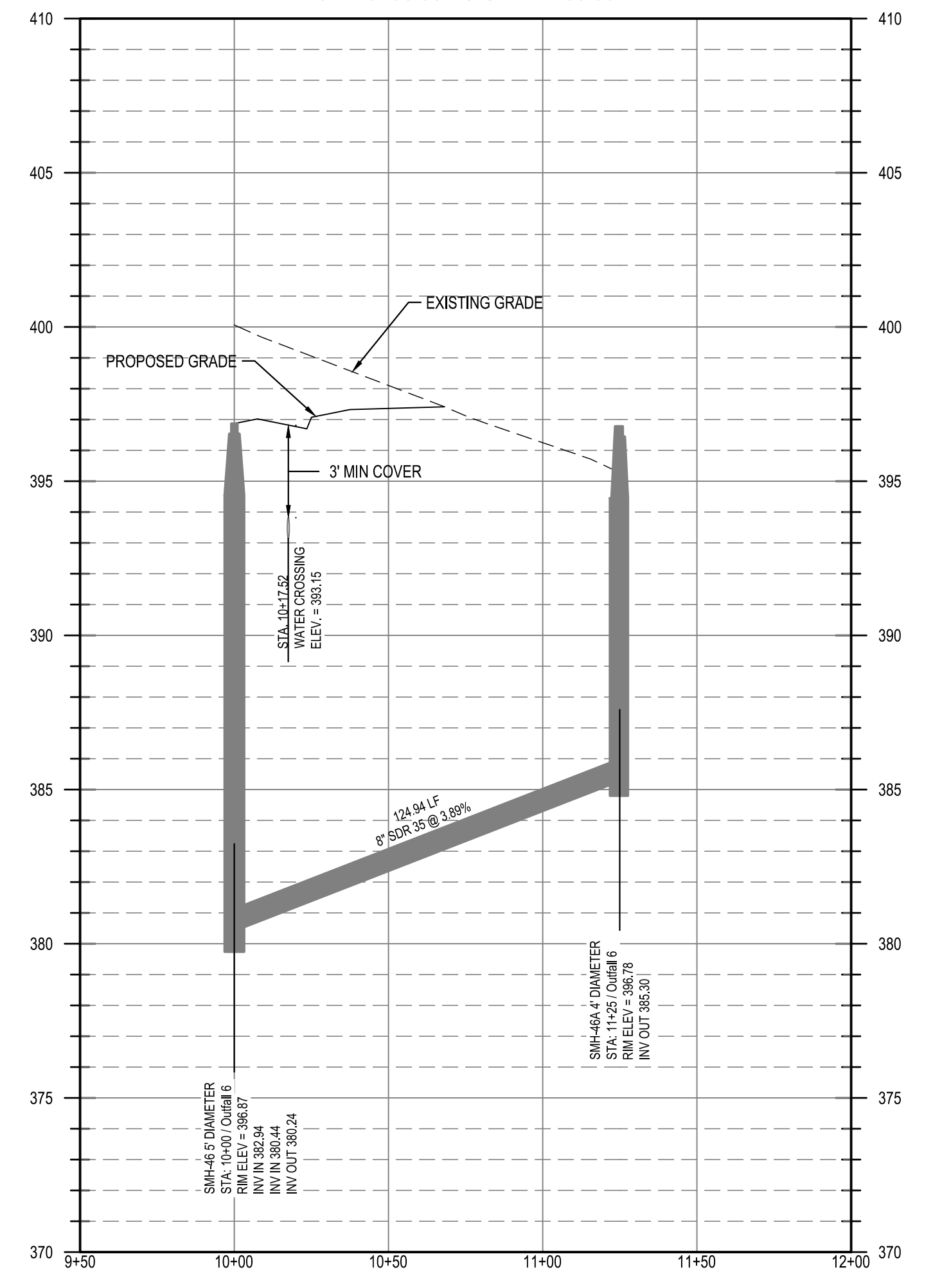




Outfall 4  
STA: 9+50.00 TO STA:13+00.00



Outfall 6  
STA: 9+50.00 TO STA:12+00.00



Public Water Distribution / Extension System  
The City of Raleigh consents to the correction and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.  
City of Raleigh Public Utilities Department Permit # WI-4107  
Authorization to Construct See digital signature

Public Sewer Collection / Extension System  
The City of Raleigh consents to the correction and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.  
City of Raleigh Public Utilities Department Permit # S-5439  
Authorization to Construct See digital signature

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION  
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City of Raleigh Development Approval \_\_\_\_\_  
Raleigh Water Review Officer \_\_\_\_\_



REV	DATE	BY	REASON
02/14/2024	DF/CD	DESIGNED BY	PER TOWN OF ROLESVILLE COMMENT
11/2/2023	DF/JWM	DRAWN BY	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	DF	REVIEWED BY	PER TOWN OF ROLESVILLE COMMENT
08/01/2023			PER TOWN OF ROLESVILLE COMMENT
06/01/2023			INITIAL SUBMITTAL

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NC LICENSE #C-4397

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CORPORAION  
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MORRISVILLE / NORTH CAROLINA / 27560

**PARKER RIDGE**  
82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

SEWER OUTFALL 6 PLAN AND PROFILE

Professional Engineer Seal  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 028892  
DEBRA FIRM  
3/13/2024

FILE NUMBER: 8430-03  
DATE: 03/04/2024  
C6-27

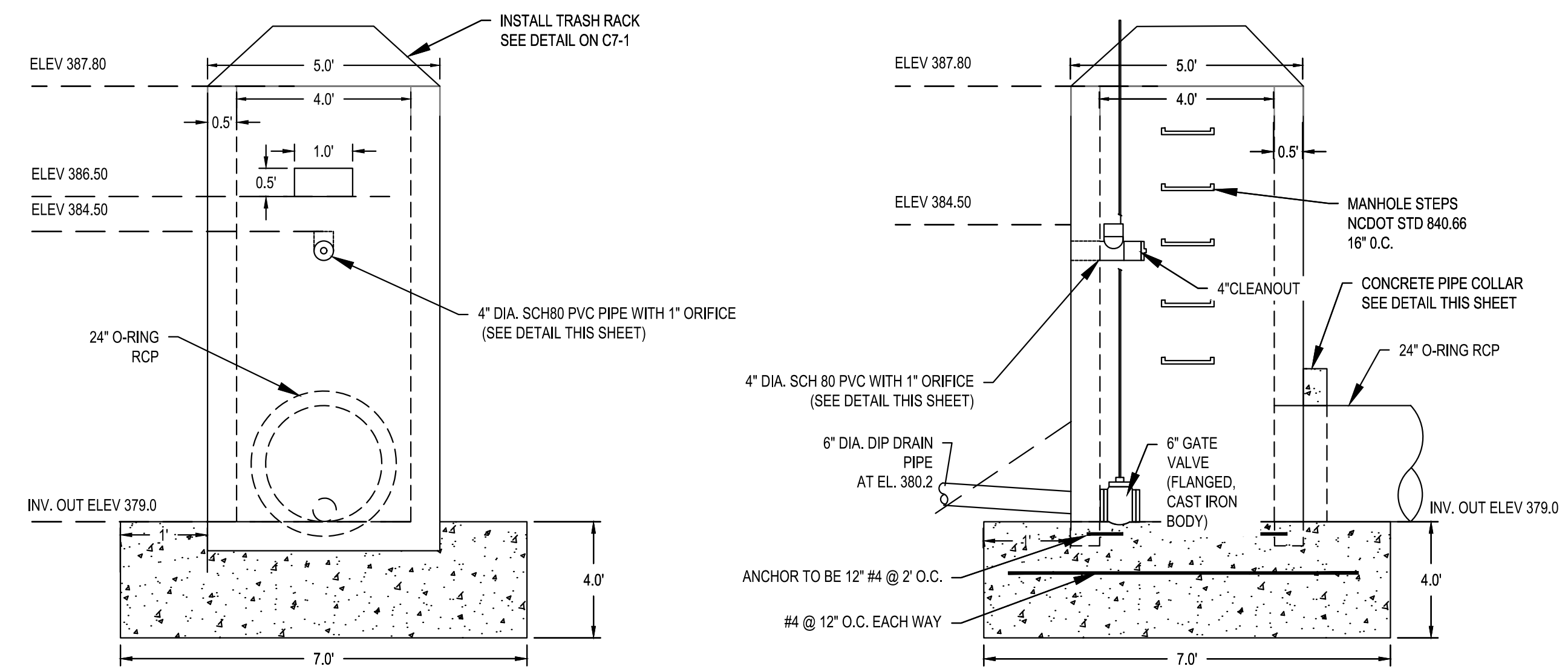
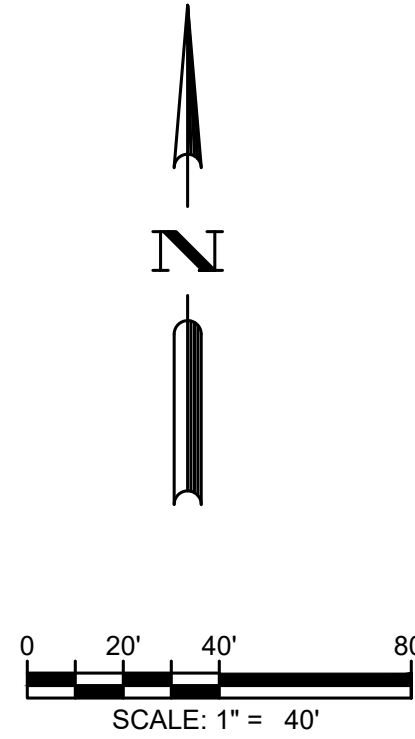
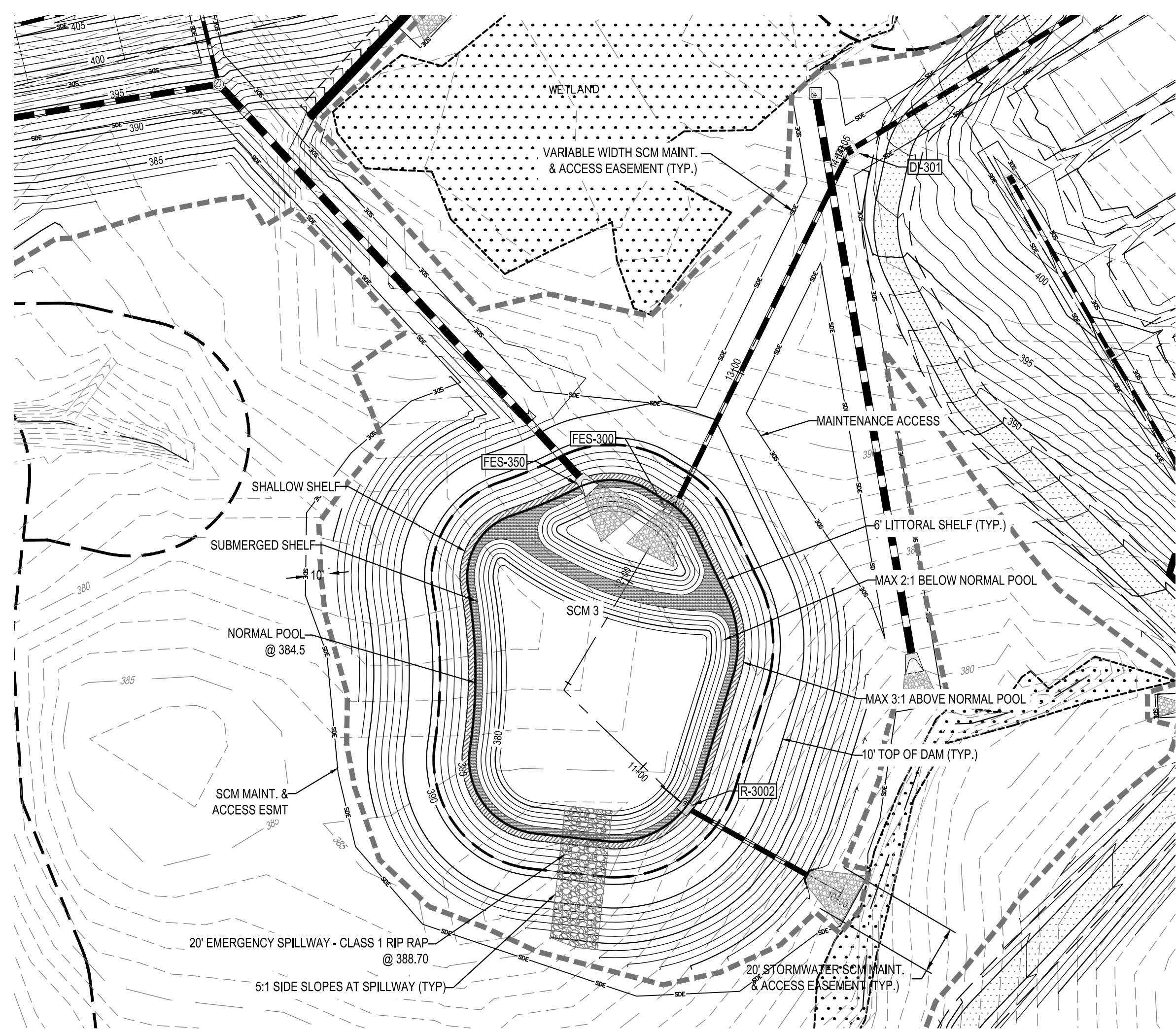






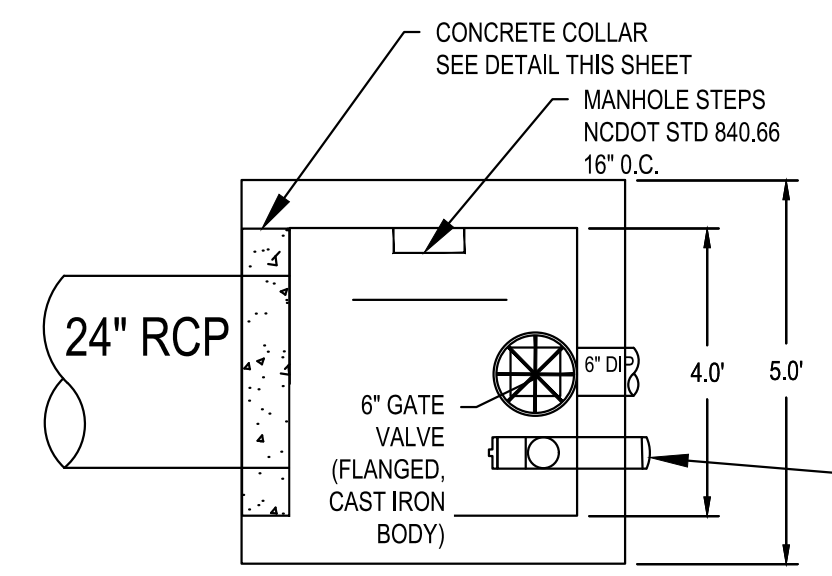




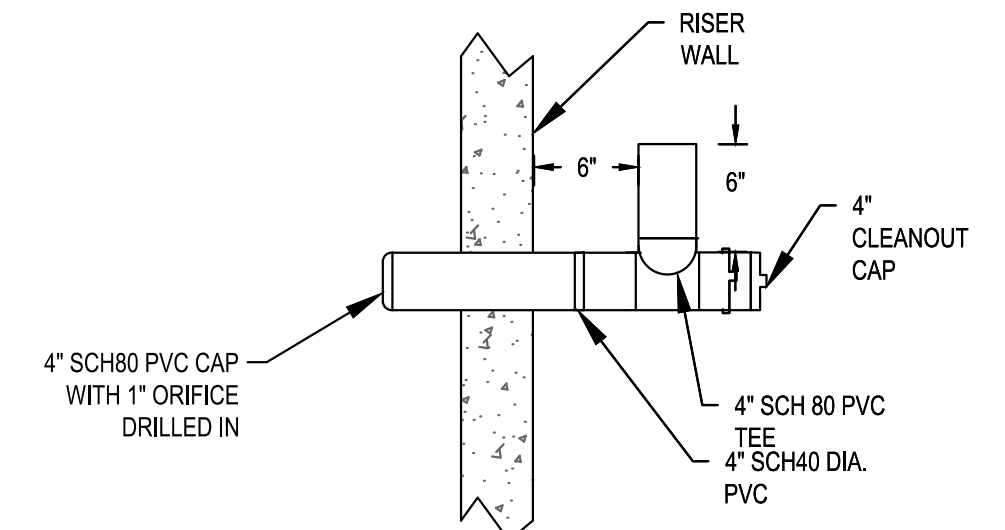


RISER STRUCTURE - WEST  
N.T.S.

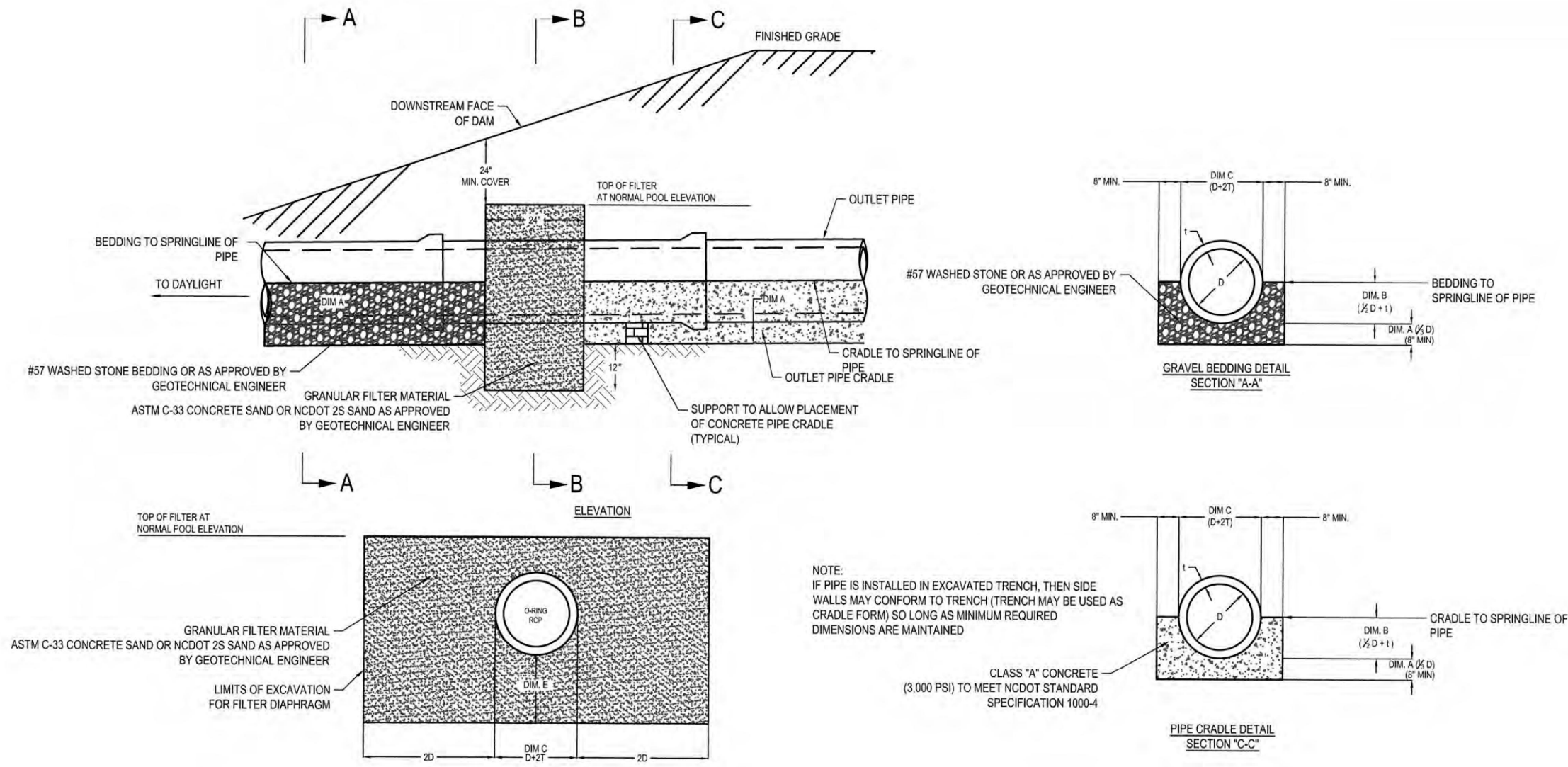
RISER STRUCTURE - SOUTH  
N.T.S.



RISER STRUCTURE - TOP  
N.T.S.



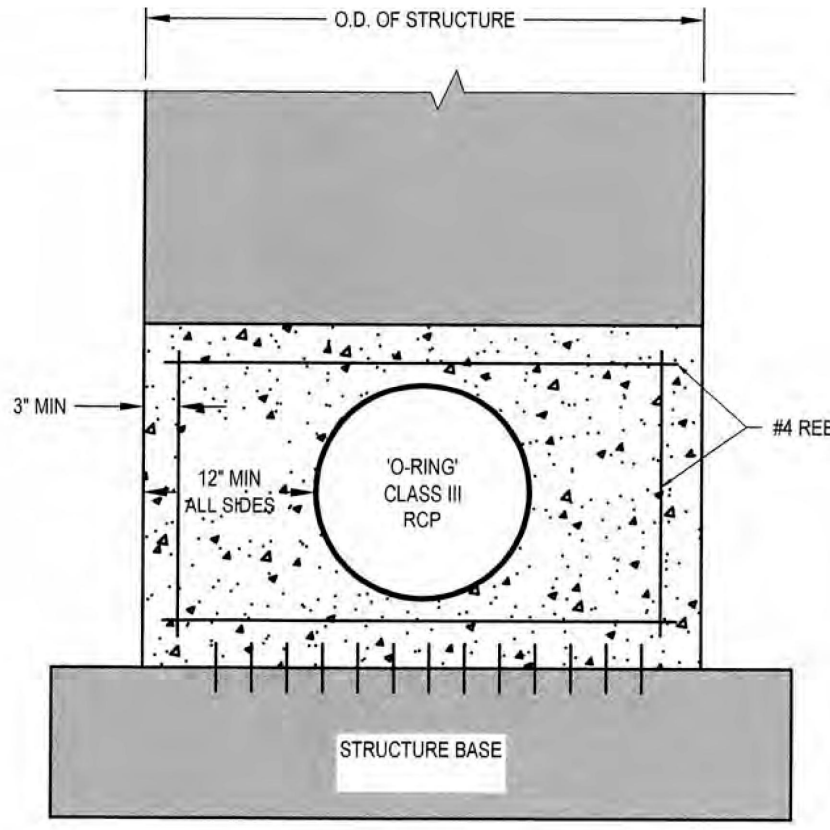
4" ORIFICE UPTURNED PIPE  
N.T.S.



OUTLET PIPE FILTER DIAPHRAGM  
& CONCRETE CRADLE DETAIL  
NOT TO SCALE

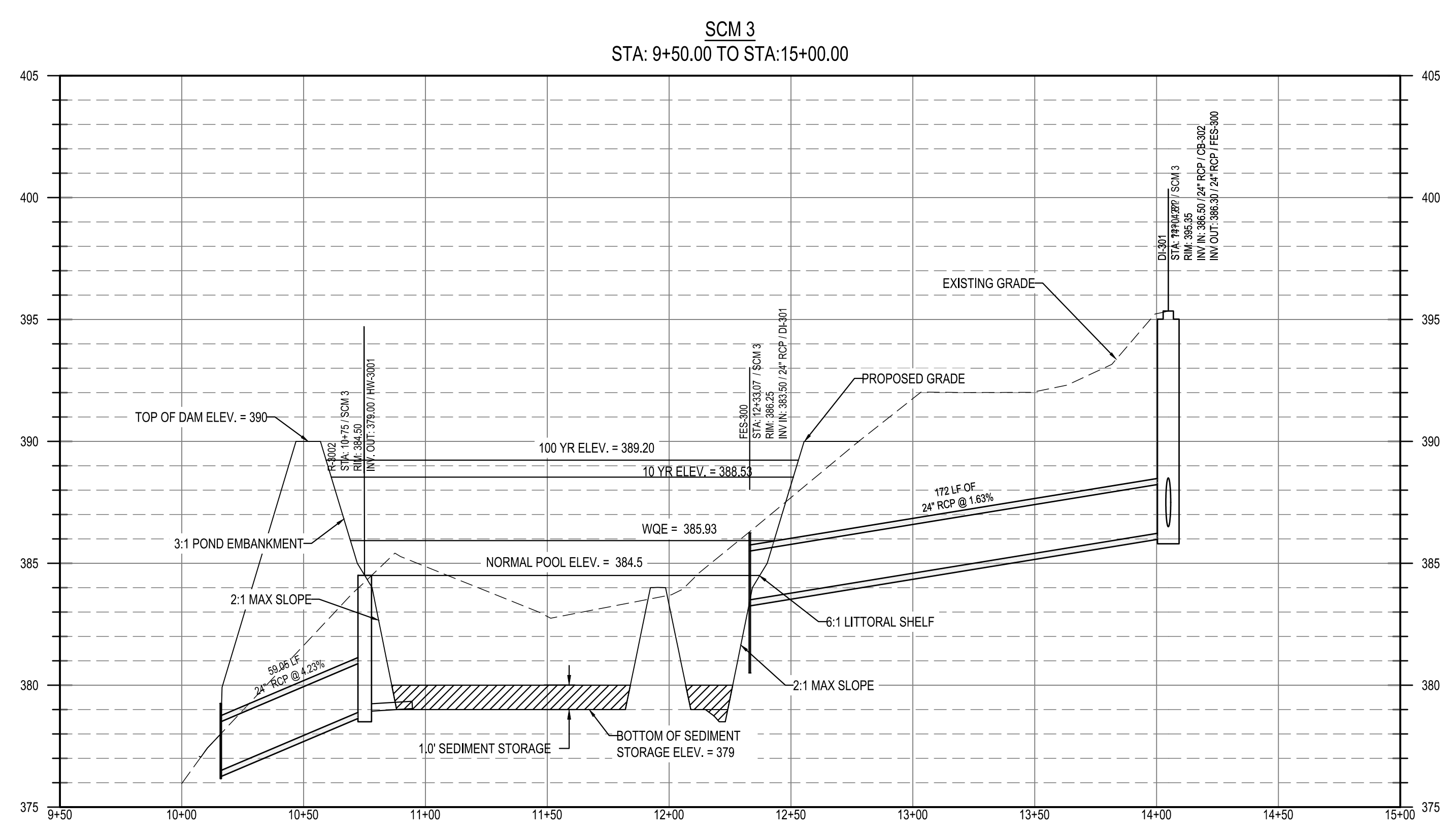
NORMAL PIPE SIZE	DM A (1/2")	DM B (1/2")	DM C (1/2")	DM D (1/2")	DM E (DM A + 1/2")	DM F (WALL)
10"	10	10	10	10	10	10
12"	12	12	12	12	12	12
14"	14	14	14	14	14	14
16"	16	16	16	16	16	16
18"	18	18	18	18	18	18
20"	20	20	20	20	20	20
24"	24	24	24	24	24	24

OUTLET PIPE FILTER DIAPHRAGM  
N.T.S.



CONCRETE COLLAR DETAIL  
N.T.S.

NOTE: INSTALL VERTICAL DOWELS IN FOUNDATION CONCRETE AS HOLDING BARS FOR CONCRETE COLLAR REBAR



SCM 3  
STA: 9+50.00 TO STA: 15+00.00

02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE COMMENT
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
06/01/2023	INITIAL SUBMITTAL
DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF

**BCE**  
5440 WADE PARK BLVD, SUITE 102  
RALEIGH NC 27607  
WWW.BCEINC.COM  
NC LICENSE #C-4397

**LENNAR CORPORAION**  
1100 PERIMETER PARK DRIVE, SUITE 112  
MORRISVILLE / NORTH CAROLINA / 27560

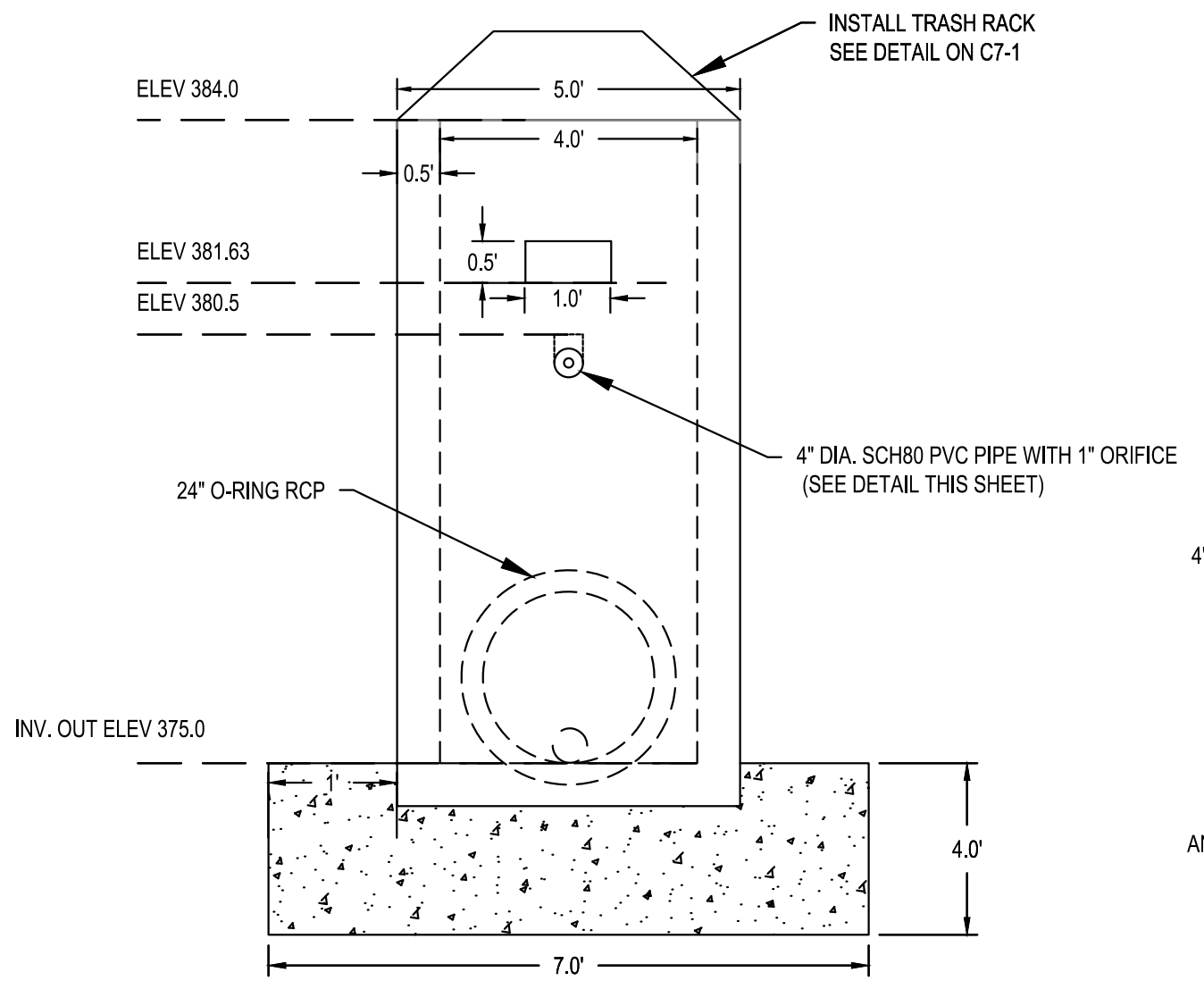
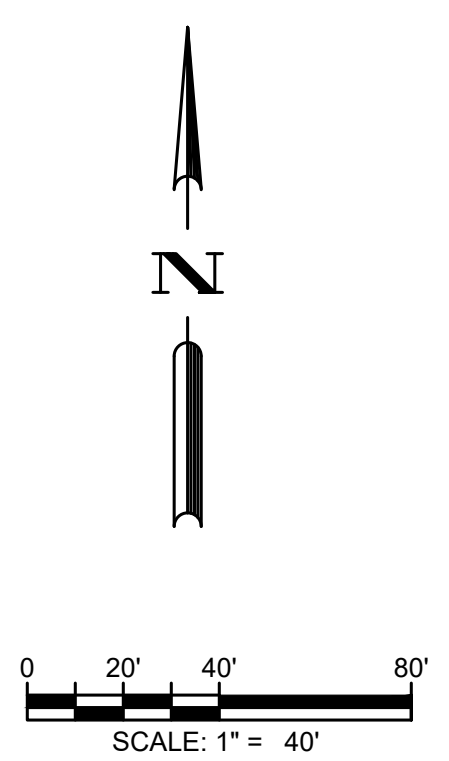
**PARKER RIDGE**  
82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**SCM 3 PLAN AND PROFILE**

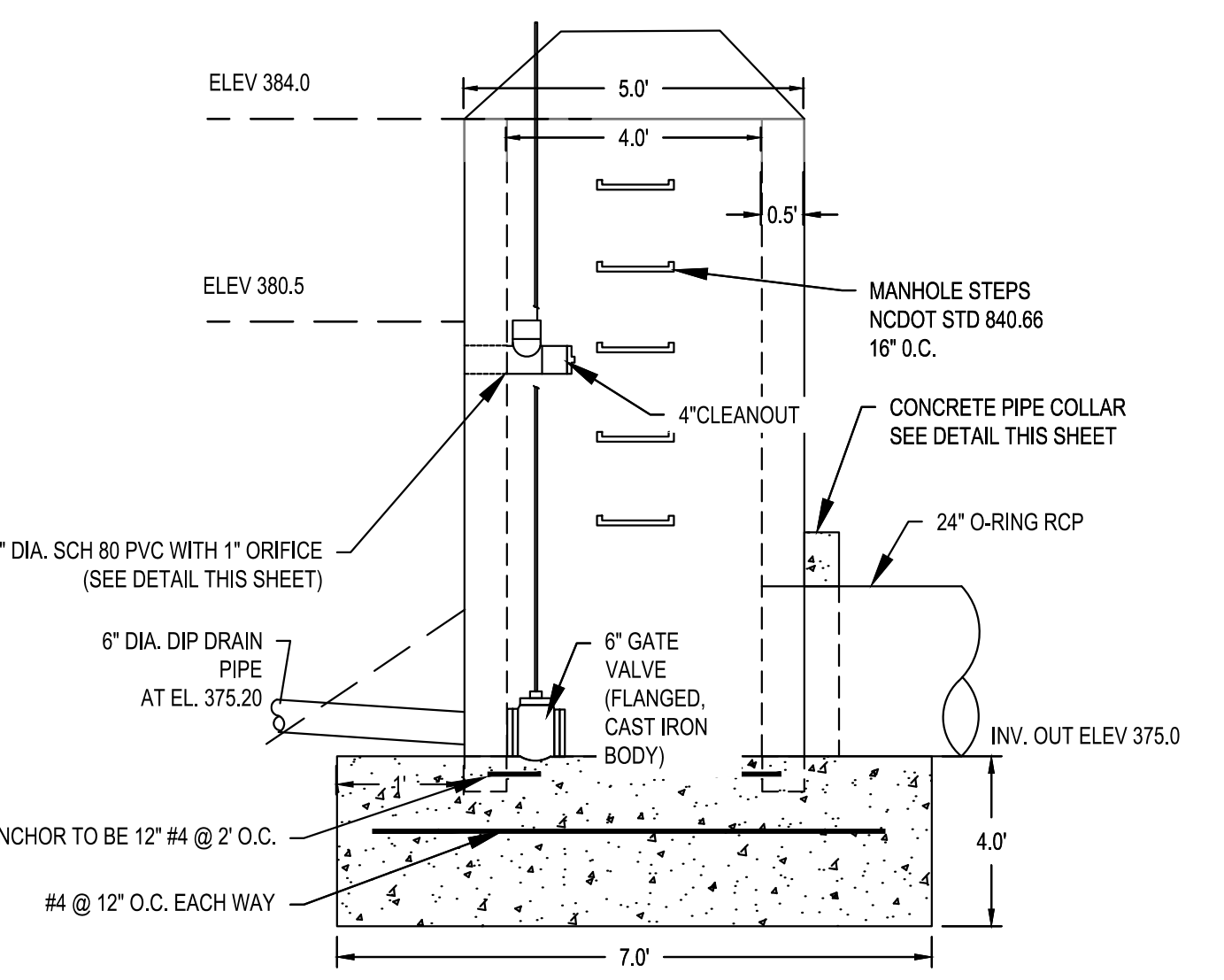
811  
Know what's below.  
Call before you dig.

PROFESSIONAL ENGINEER  
SEAL 028892  
DEBRA M. FERN  
03/15/2024  
Debbi Fum  
FILE NUMBER: 8430-03  
DATE: 03/04/2024  
C7-2

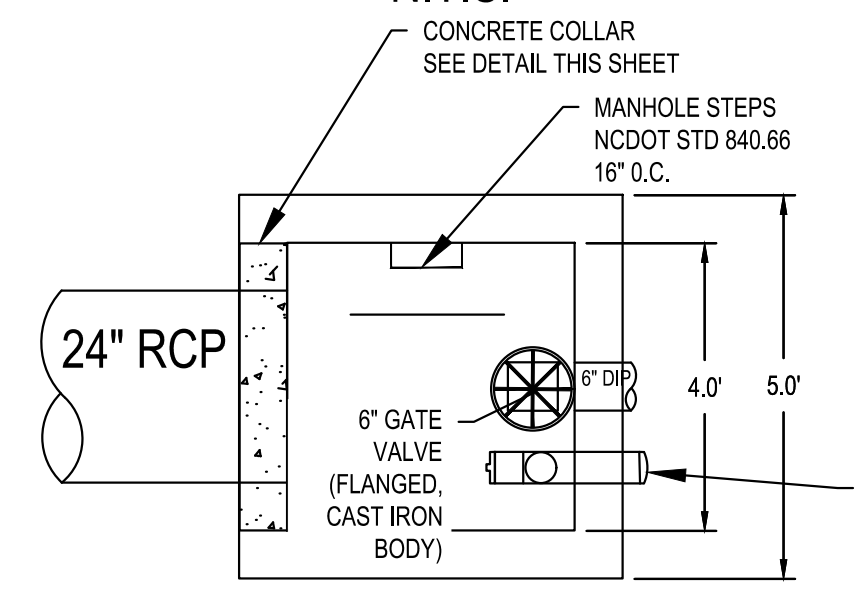




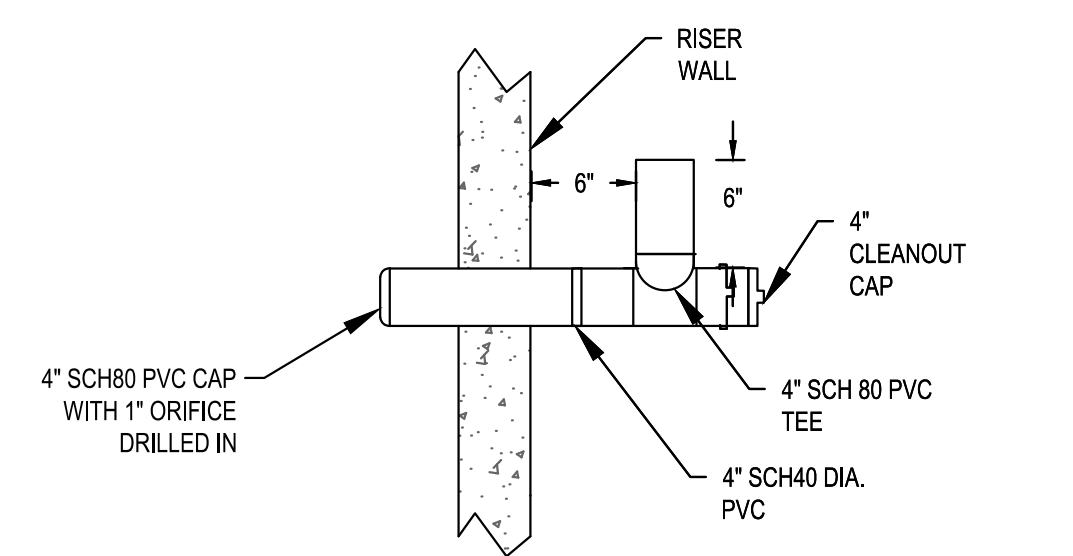
RISER STRUCTURE - WEST  
N.T.S.



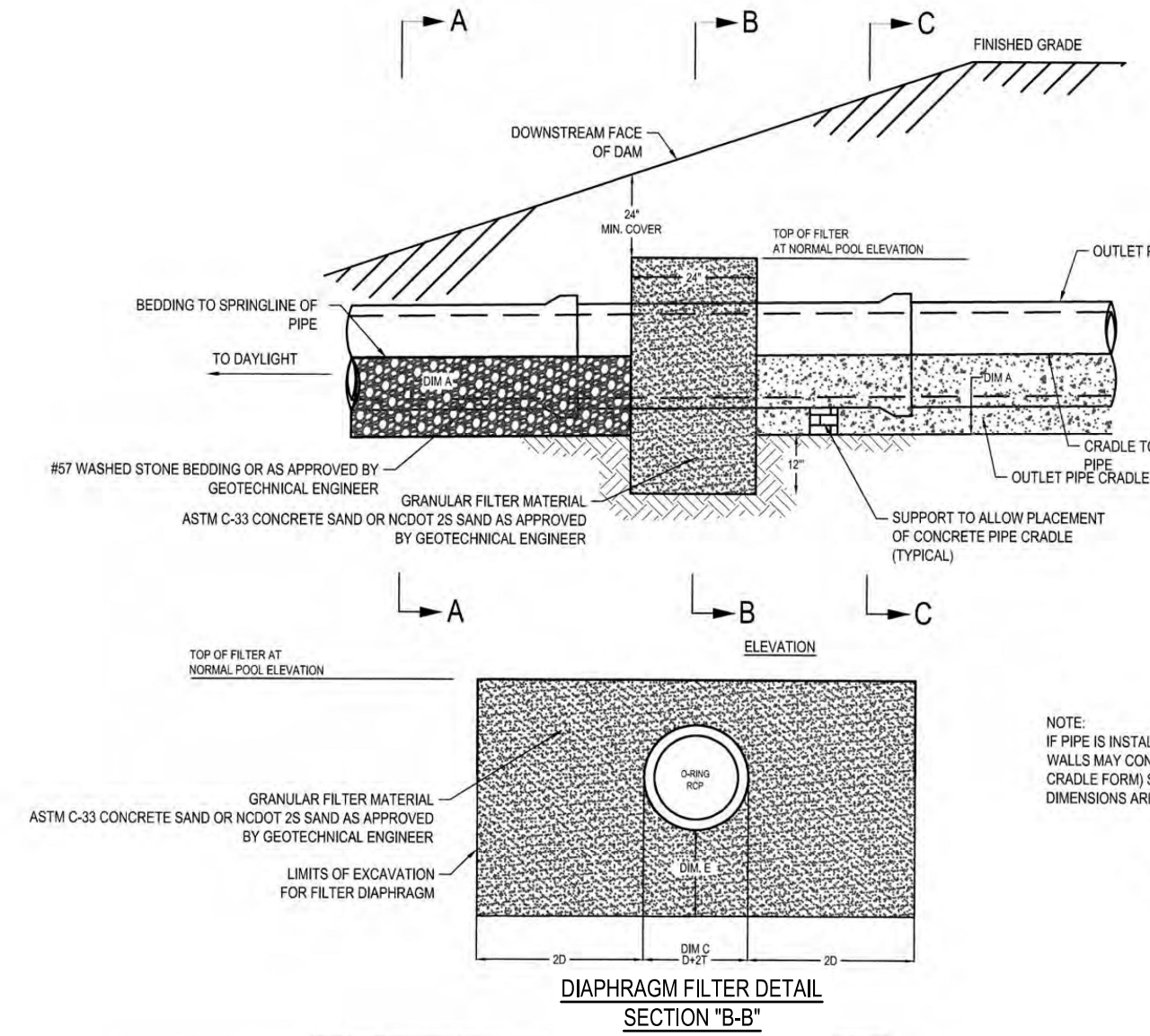
RISER STRUCTURE - SOUTH  
N.T.S.



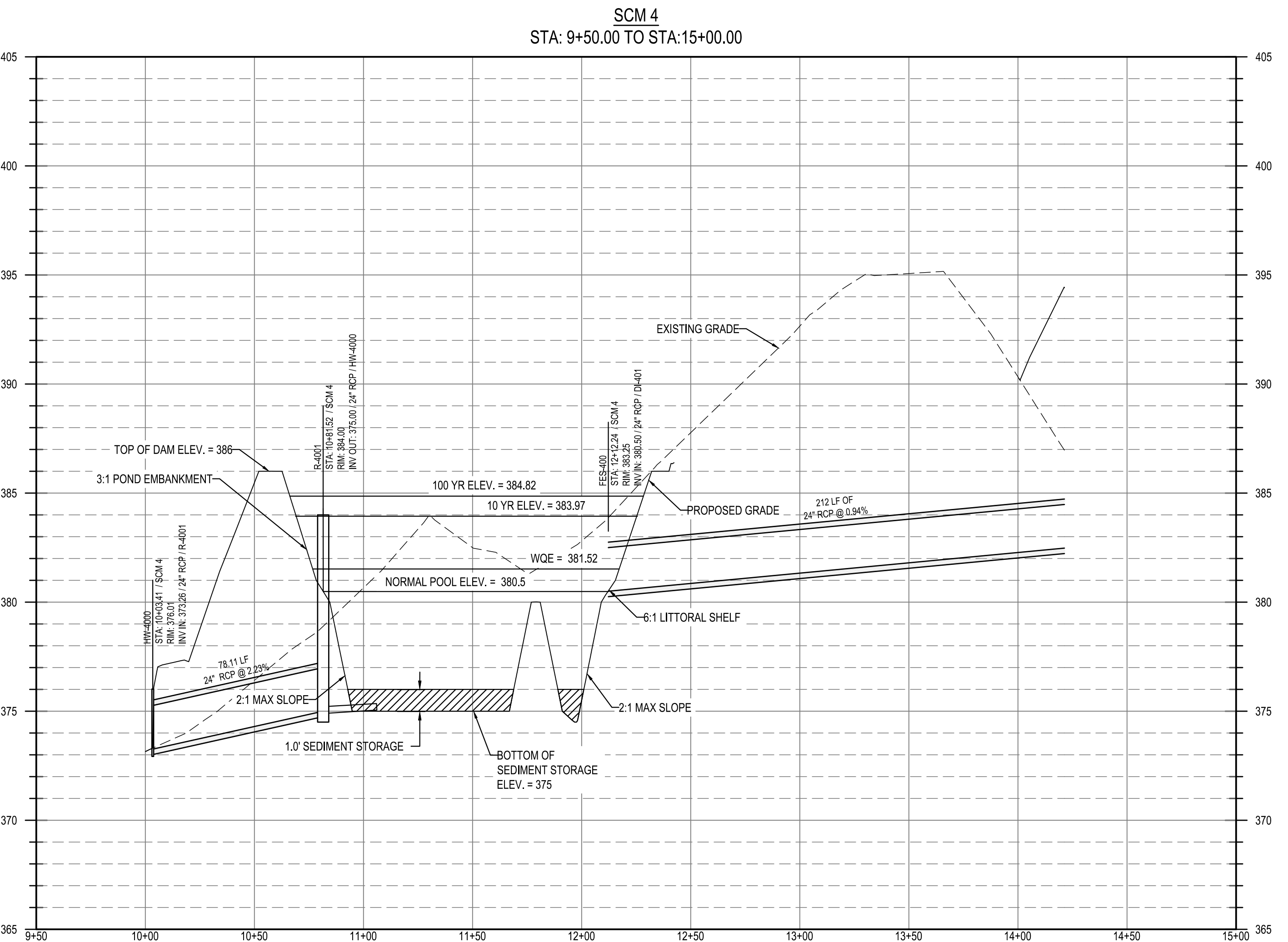
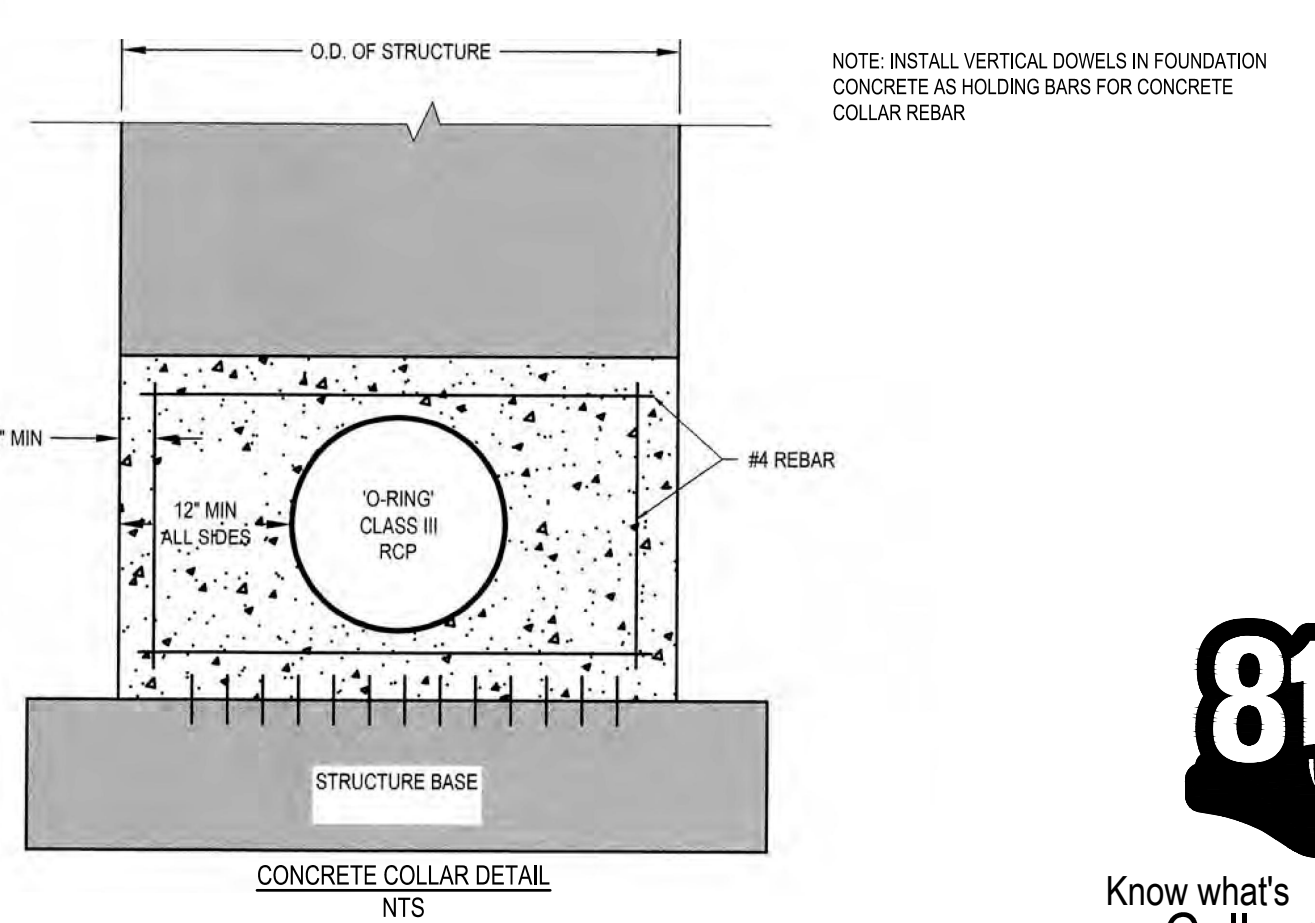
RISER STRUCTURE - TOP  
N.T.S.



4" ORIFICE UPTURNED PIPE  
N.T.S.



OUTLET PIPE FILTER DIAPHRAGM  
N.T.S.



02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE COMMENT
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV 06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD

DRAWN BY: DF/JWM

REVIEWED BY: DF

**BCE**

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NC LICENSE #C-4397

**LENNAR**

**CORPORAION**

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MORRISVILLE / NORTH CAROLINA / 27560

**PARKER RIDGE**

82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**SCM 4 PLAN AND PROFILE**

PROFESSIONAL ENGINEER  
SEAL 028892  
DEBRA M. FERN  
3/13/2024

FILE NUMBER: 8430-03  
DATE: 03/04/2024

**811**

Know what's below.  
Call before you dig.

C7-3



NOTES (DEWATERING FILTER BAG)

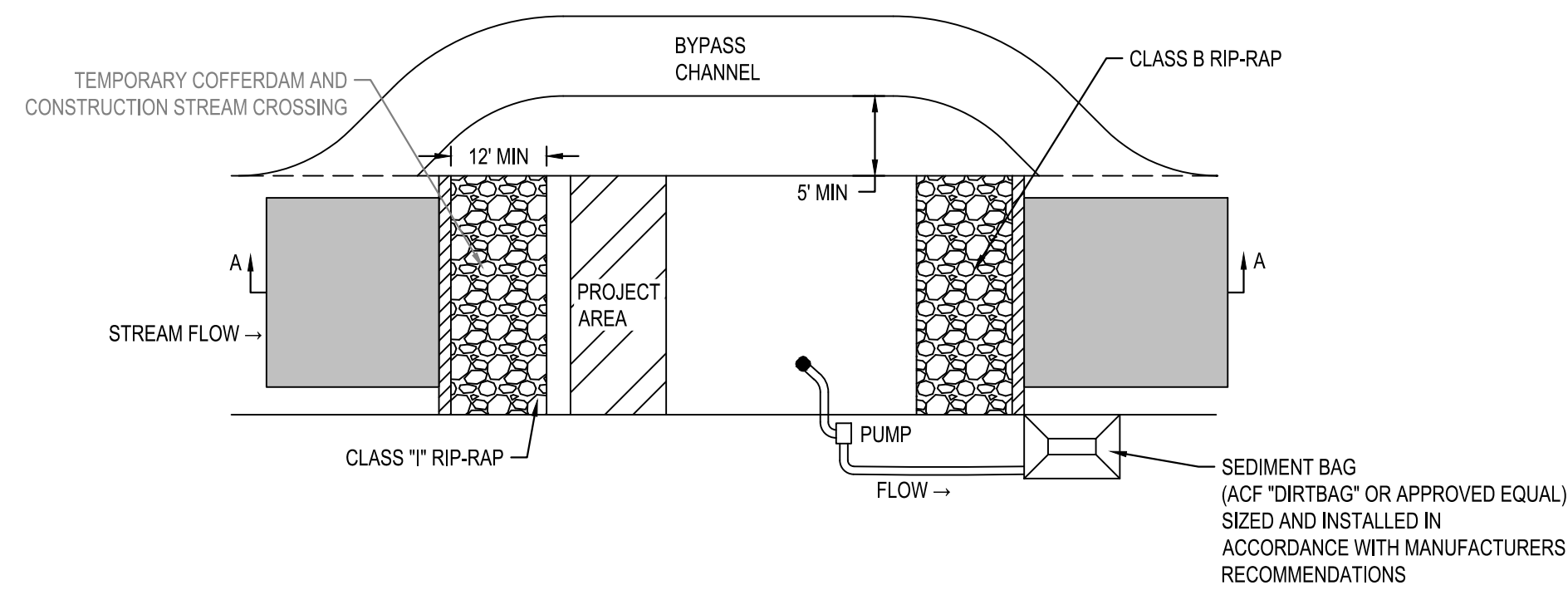
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MAINTENANCE NOTES

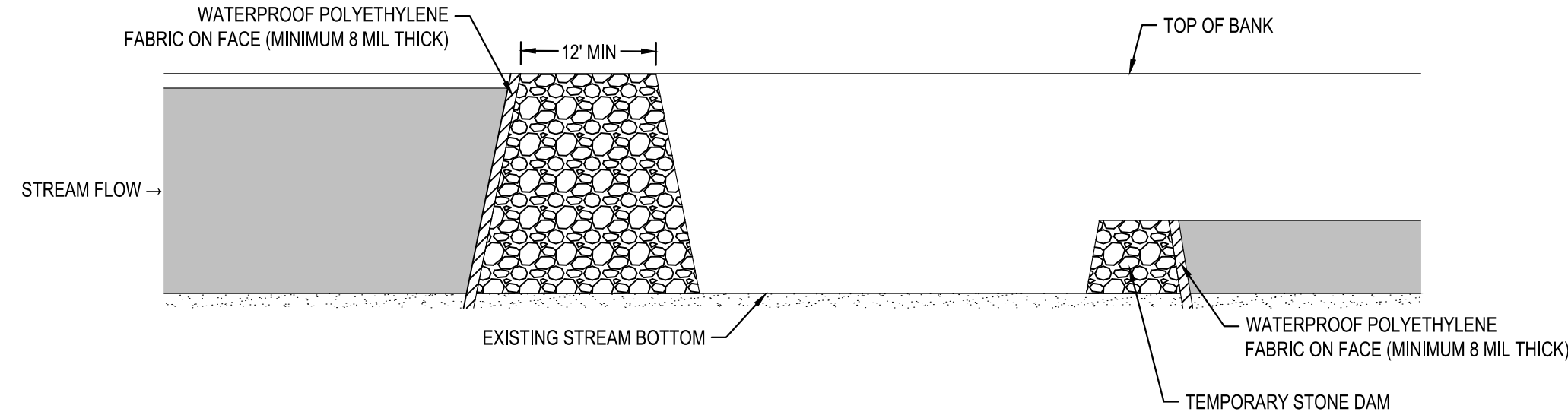
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CONSTRUCTION NOTES

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  - THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS
- THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.
- THIS BARREL STANDARD TO BE USED ONLY ON CULVERT ON 75° SKEW AND TO BE USED WITH STANDARD WING SHEET WITH SAME SKEW AND VERTICAL CLEARANCE.
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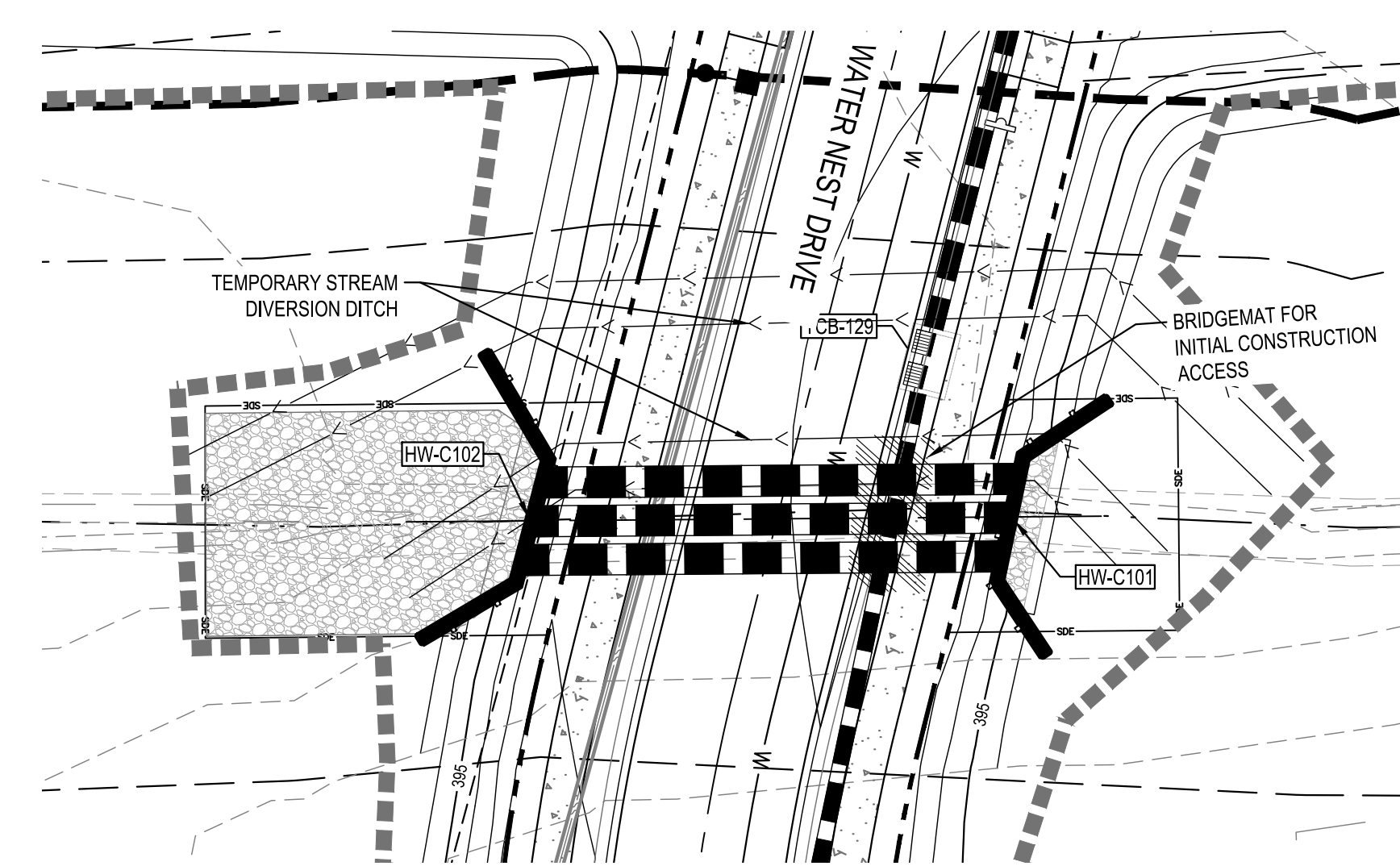
PLAN



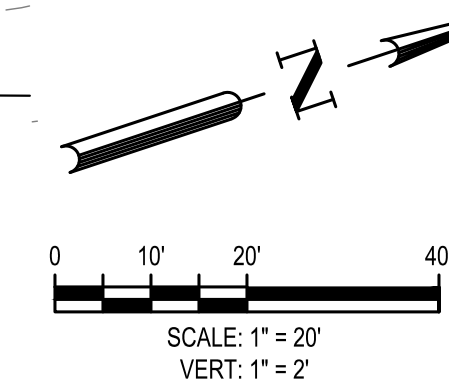
SECTION A-A

TEMPORARY STREAM CROSSING BYPASS

NOT TO SCALE



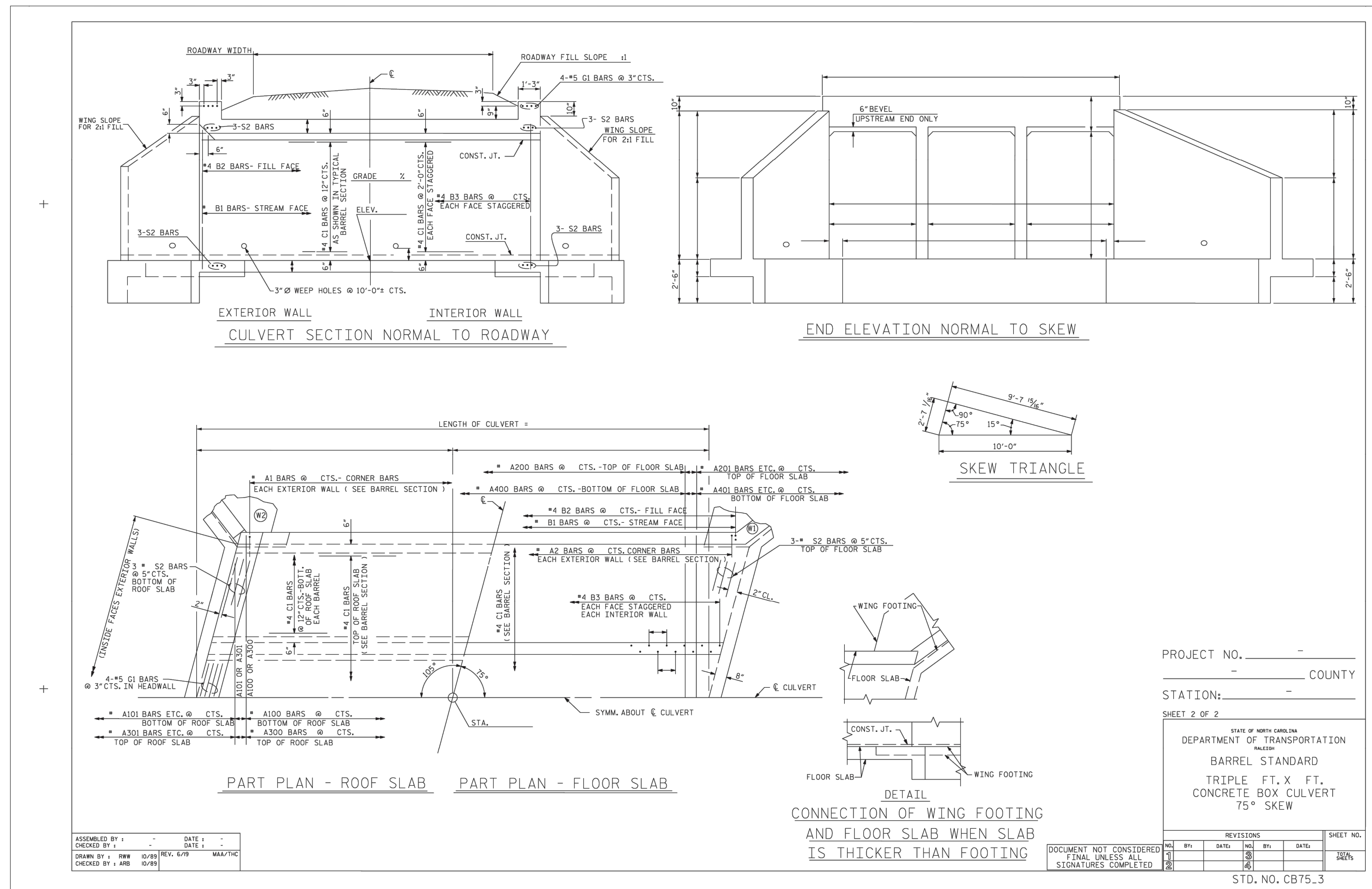
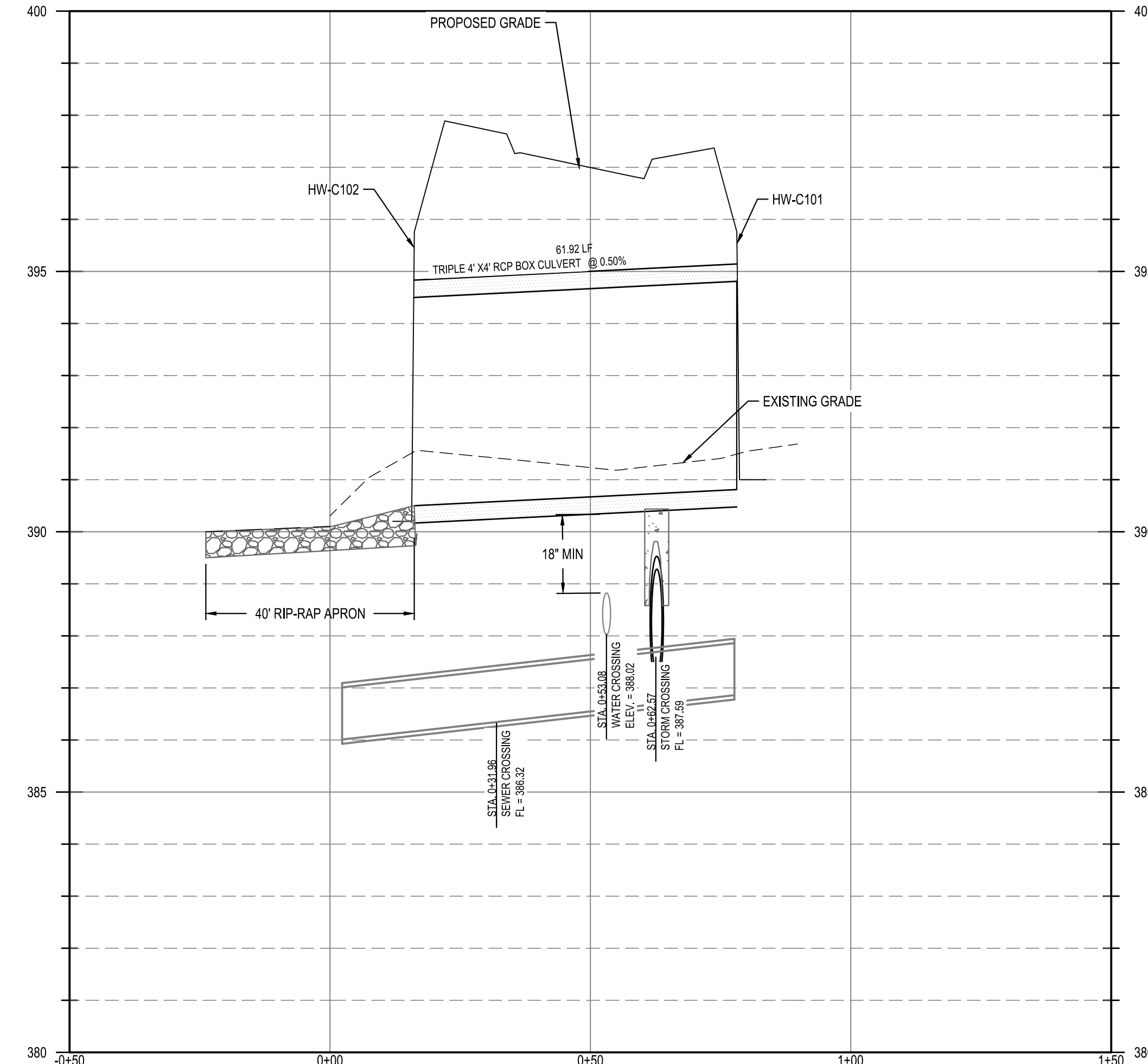
CULVERT 1



NOTES:

- TEMPORARY BYPASS AND CULVERT SHALL BE INSTALLED IN AT LEAST 3 DAYS OF DRY CONDITIONS.
- SILT FENCE SHALL BE INSTALLED ALONG STREAM BANKS AT THE END OF EACH WORKDAY TO MINIMIZE IMPACTS

CULVERT 1  
STA: -0+50.00 TO STA:1+50.00



G:\NCA\Projects\Lennar\School Street - Rolesville\03 - DWG\PlanSheets\Site\SiteC5-4 - SWM-POND.dwg Layout: C7-4 CULVERT 1 PLAN Plotted: 3/12/2024 9:20:17 AM

02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE / IWC COMMENTS
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DFC/D

DRAWN BY: DFW/JWM

REVIEWED BY: DF

**BCE**

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RALEIGH NC 27607  
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**LENNAR**

**CORPORAION**

1100 PERIMETER PARK DRIVE, SUITE 112  
MORRISVILLE / NORTH CAROLINA / 27560

**PARKER RIDGE**

82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**CULVERT 1 PLAN**

STATE OF NORTH CAROLINA  
PROFESSIONAL ENGINEER  
SEAL 028892  
DEBRA M. FERN  
3/15/2024

FILE NUMBER:  
8430-03

DATE: 03/04/2024



Know what's below.  
Call before you dig.

C7-4



NOTES (DEWATERING FILTER BAG)

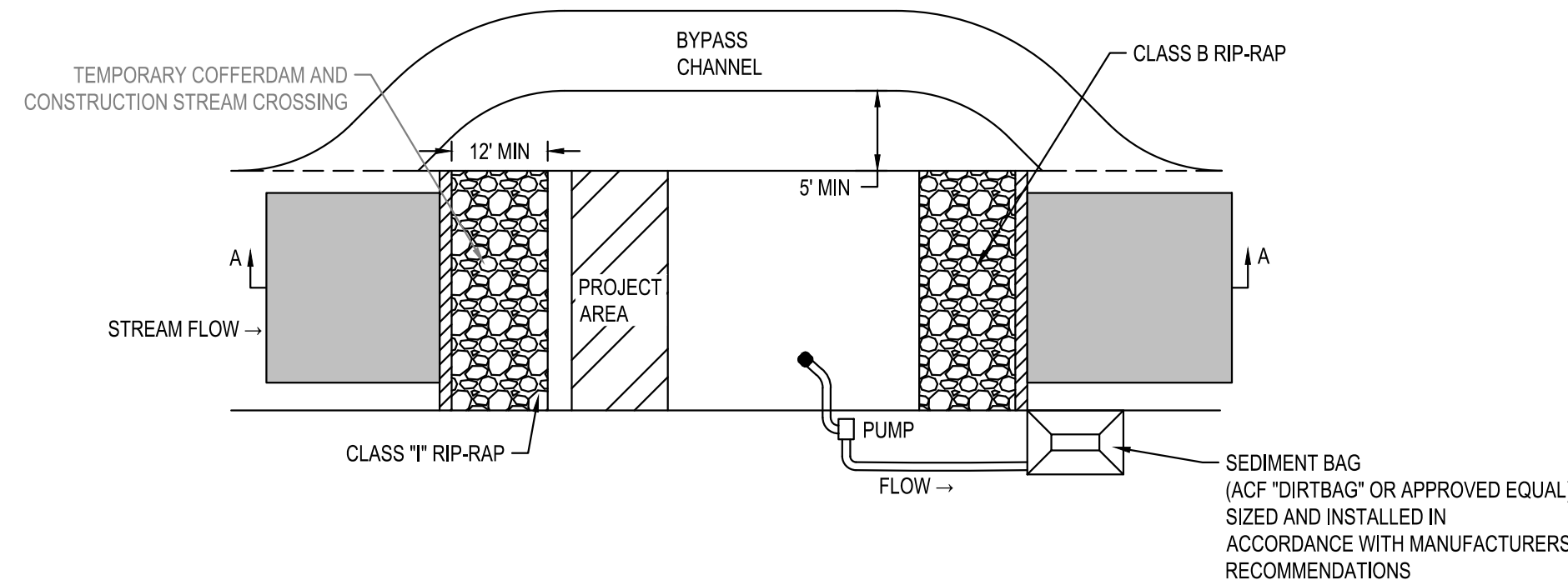
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MAINTENANCE NOTES

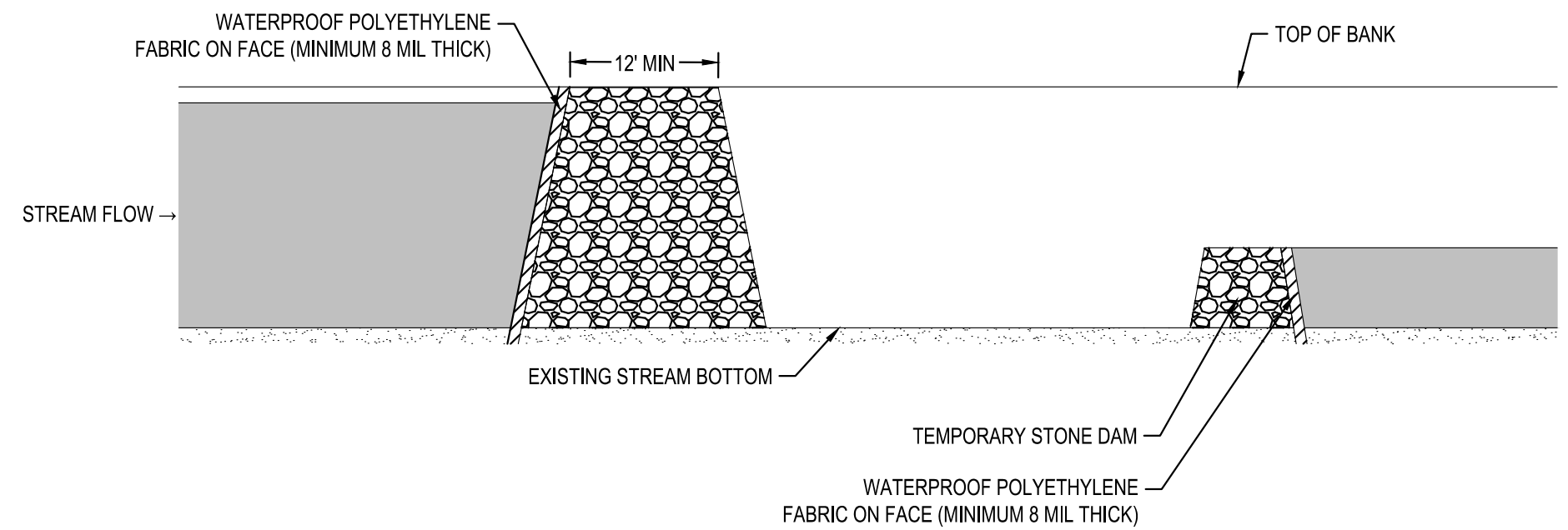
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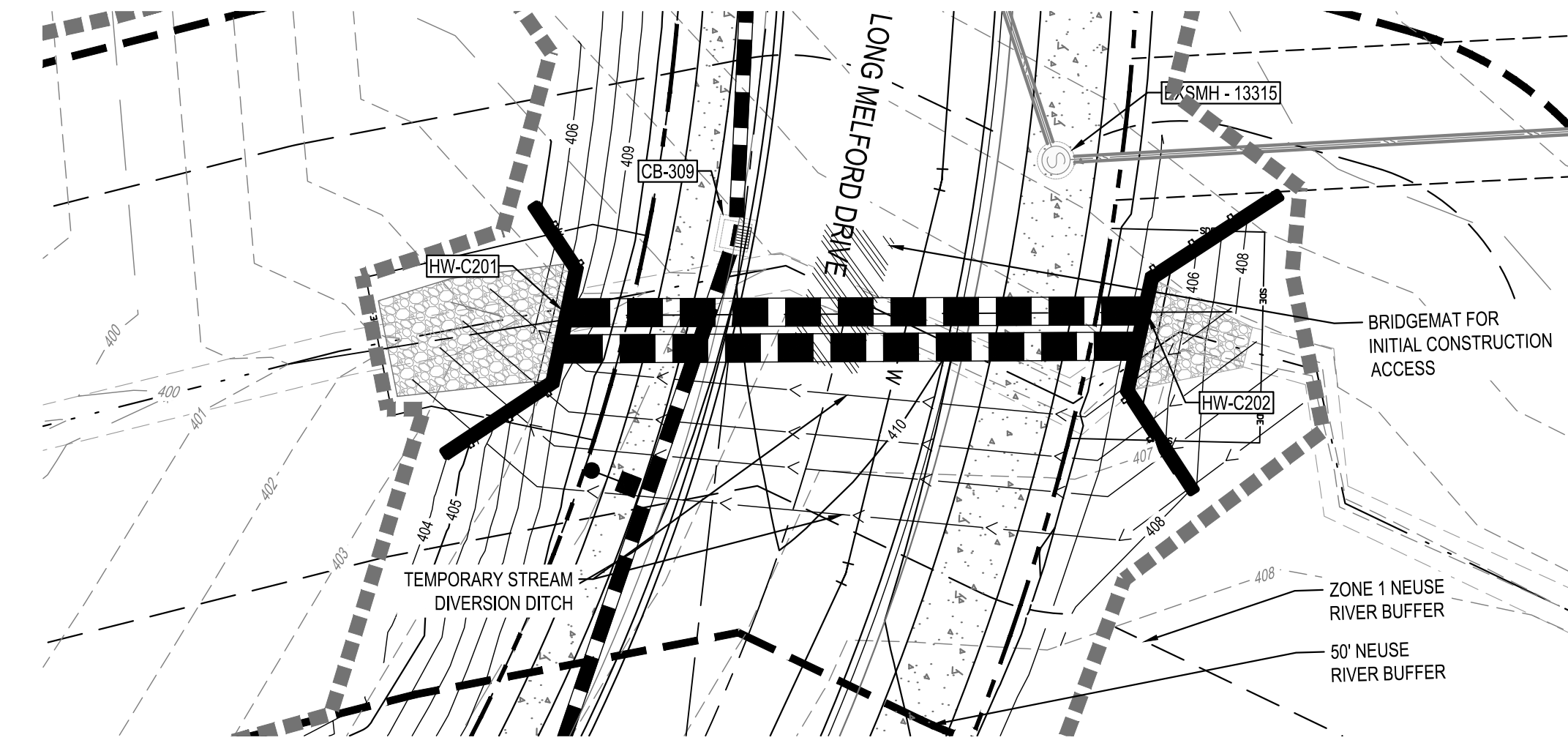
PLAN



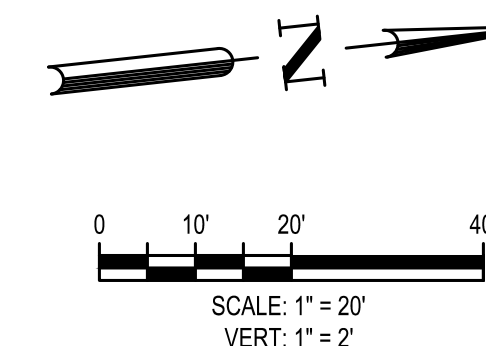
SECTION A-A

TEMPORARY STREAM CROSSING BYPASS

NOT TO SCALE



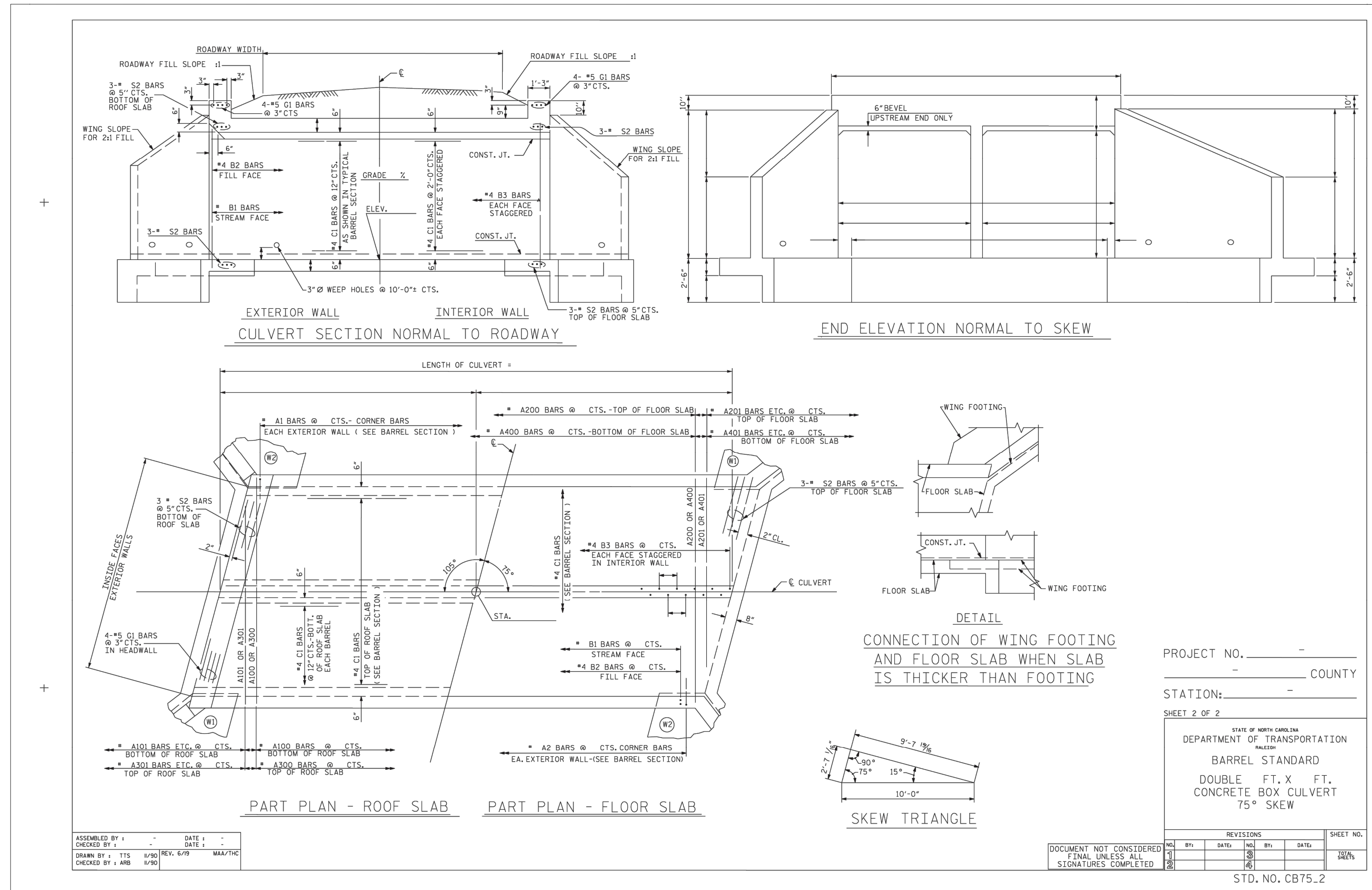
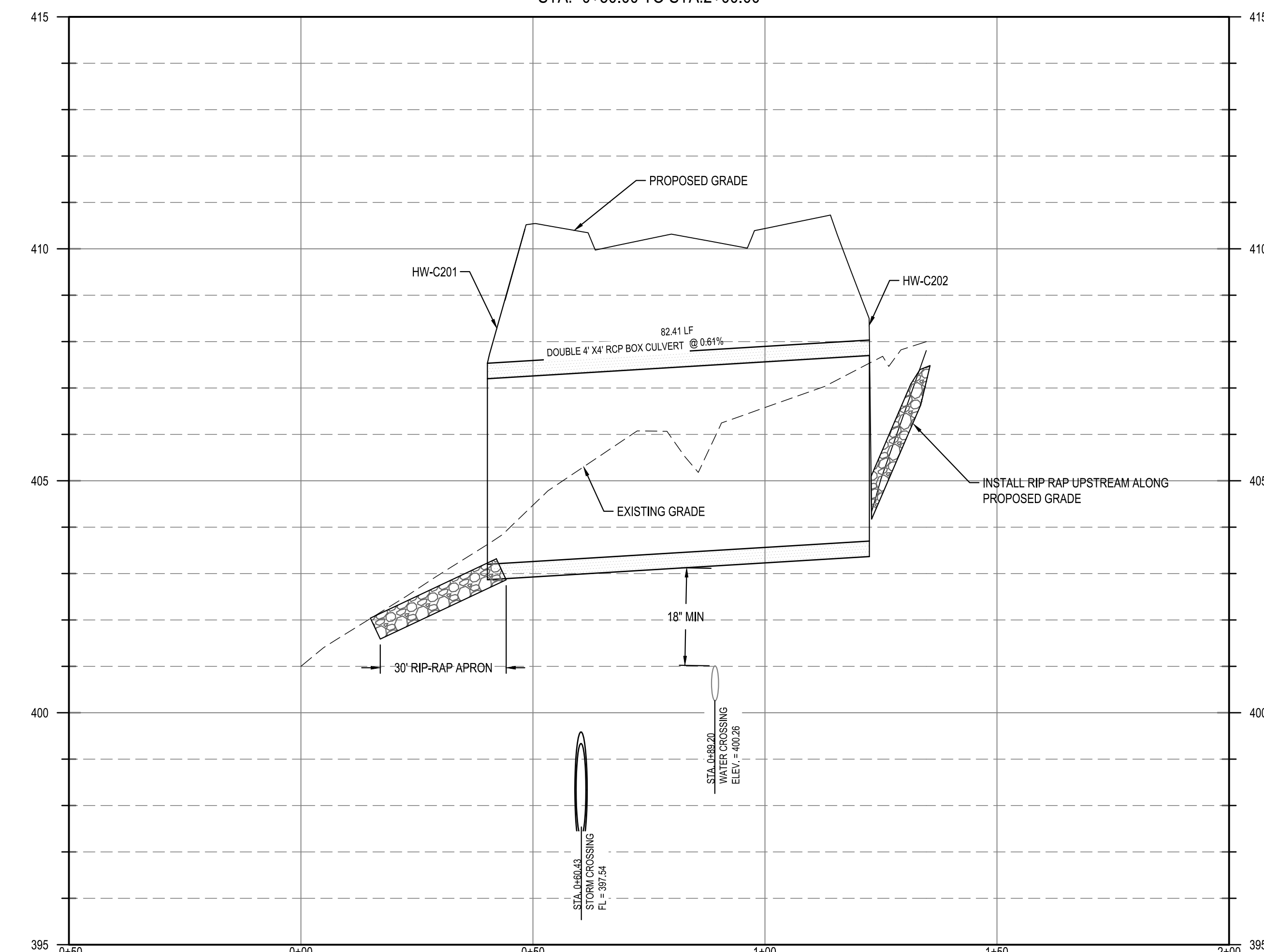
CULVERT 2



NOTES:

- TEMPORARY BYPASS AND CULVERT SHALL BE INSTALLED IN AT LEAST 3 DAYS OF DRY CONDITIONS.
- SILT FENCE SHALL BE INSTALLED ALONG STREAM BANKS AT THE END OF EACH WORKDAY TO MINIMIZE IMPACTS

CULVERT 2  
STA: -0+50.00 TO STA: 2+00.00



PROJECT NO. \_\_\_\_\_ COUNTY \_\_\_\_\_  
 STATION: \_\_\_\_\_  
 SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 BARREL STANDARD  
 DOUBLE FT. X FT.  
 CONCRETE BOX CULVERT  
 75° SKEW

NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
1				2			

STANDARD SIGNATURES COMPLETED

STD. NO. CB75.2

DATE	PER TOWN OF ROLESVILLE COMMENT	DATE	PER TOWN OF ROLESVILLE COMMENT	DATE	PER TOWN OF ROLESVILLE COMMENT	DATE	PER TOWN OF ROLESVILLE COMMENT	DATE	PER TOWN OF ROLESVILLE COMMENT
02/14/2024		11/2/2024		11/21/2023		10/02/2023		08/01/2023	
REV									

DESIGNED BY: DFC/D  
 DRAWN BY: DFL/JWM  
 REVIEWED BY: DF

BCE  
 5440 WADE PARK BLVD, SUITE 102  
 RALEIGH, NC 27607  
 WWW.BCEINC.COM  
 NC LICENSE #C-4397

Lennar  
 CORPORAION  
 1100 PERIMETER PARK DRIVE, SUITE 112  
 MORRISVILLE / NORTH CAROLINA / 27560

PARKER RIDGE  
 82 SCHOOL STREET  
 ROLESVILLE / NORTH CAROLINA / 27571

CULVERT 2 PLAN

STATE OF NORTH CAROLINA  
 PROFESSIONAL ENGINEER  
 SEAL 028892  
 DEBBIE FURN  
 3/15/2024

FILE NUMBER:  
 8430-03  
 DATE: 03/04/2024



C7-5

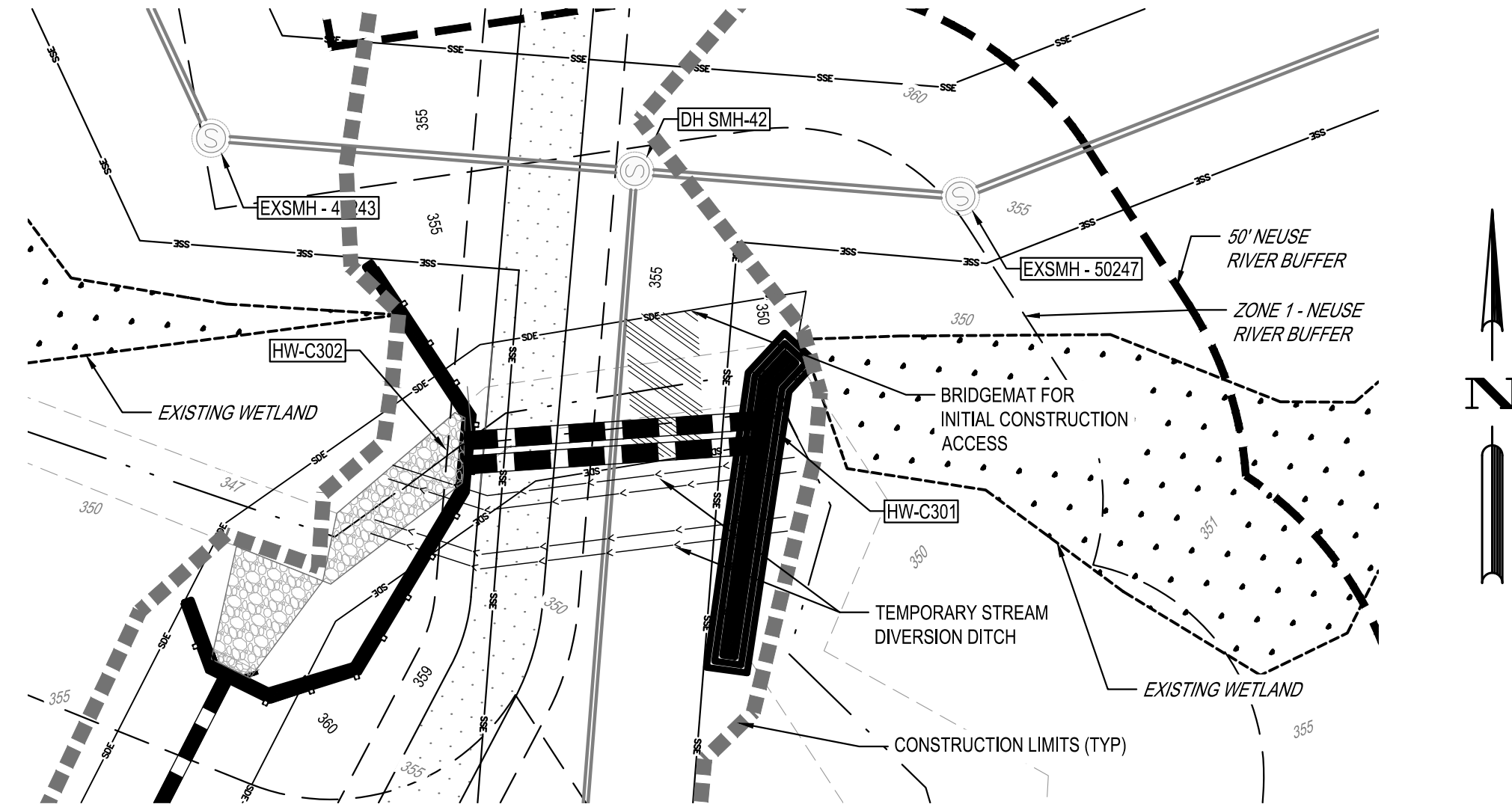


**NOTES (DEWATERING FILTER BAG)**

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**MAINTENANCE NOTES**

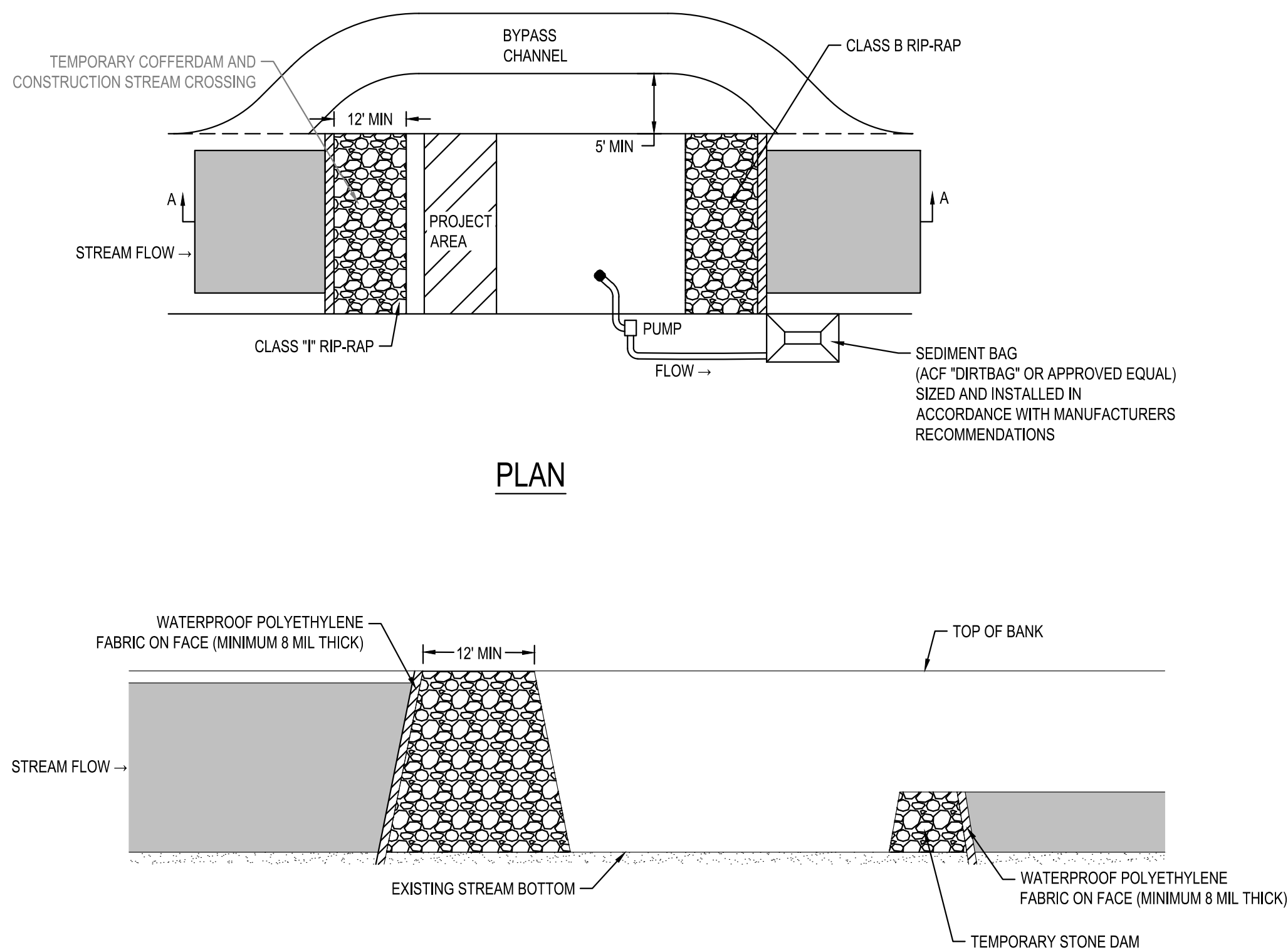
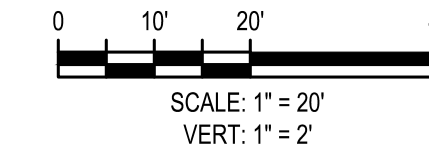
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**CULVERT 3**

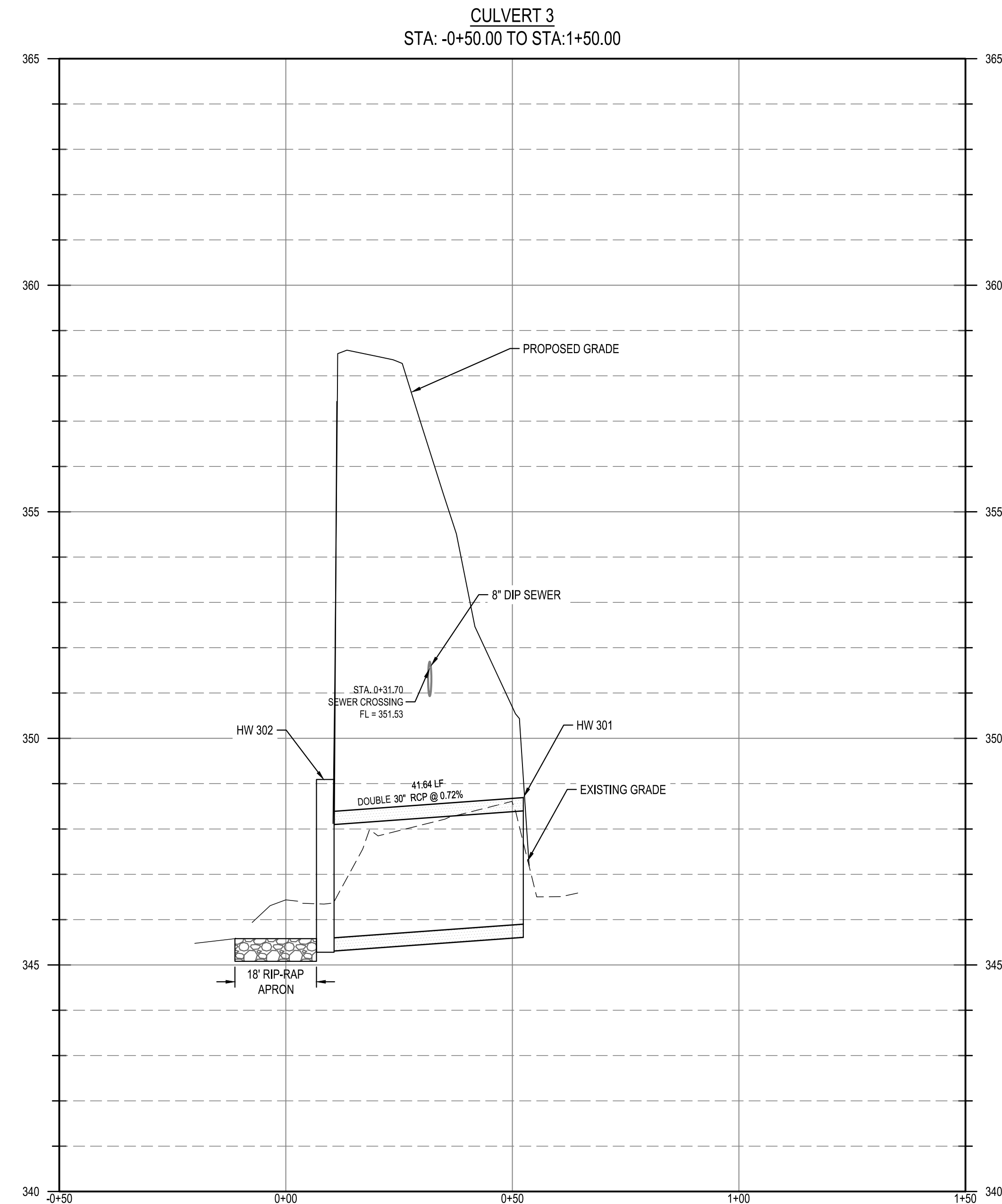
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**TEMPORARY STREAM CROSSING BYPASS**

NOT TO SCALE



02/14/2024	PER TOWN OF ROLESVILLE COMMENT
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06/01/2023	INITIAL SUBMITTAL
REV	
DESIGNED BY:	DF/CD
DRAWN BY:	DF/JWM
REVIEWED BY:	DF

**BCE**  
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 RALEIGH NC 27607  
 WWW.BCEINC.COM  
 NC LICENSE #C-4397

**LENNAR**  
**CORPORAION**  
 1100 PERIMETER PARK DRIVE, SUITE 112  
 MORRISVILLE / NORTH CAROLINA / 27560

**PARKER RIDGE**  
 82 SCHOOL STREET  
 ROLESVILLE / NORTH CAROLINA / 27571

**CULVERT 3 PLAN**

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028892  
 DEBRA M. FERN  
 3/13/2024  
 Debbi Fern

FILE NUMBER: 8430-03  
 DATE: 03/04/2024



Know what's below.  
 Call before you dig.

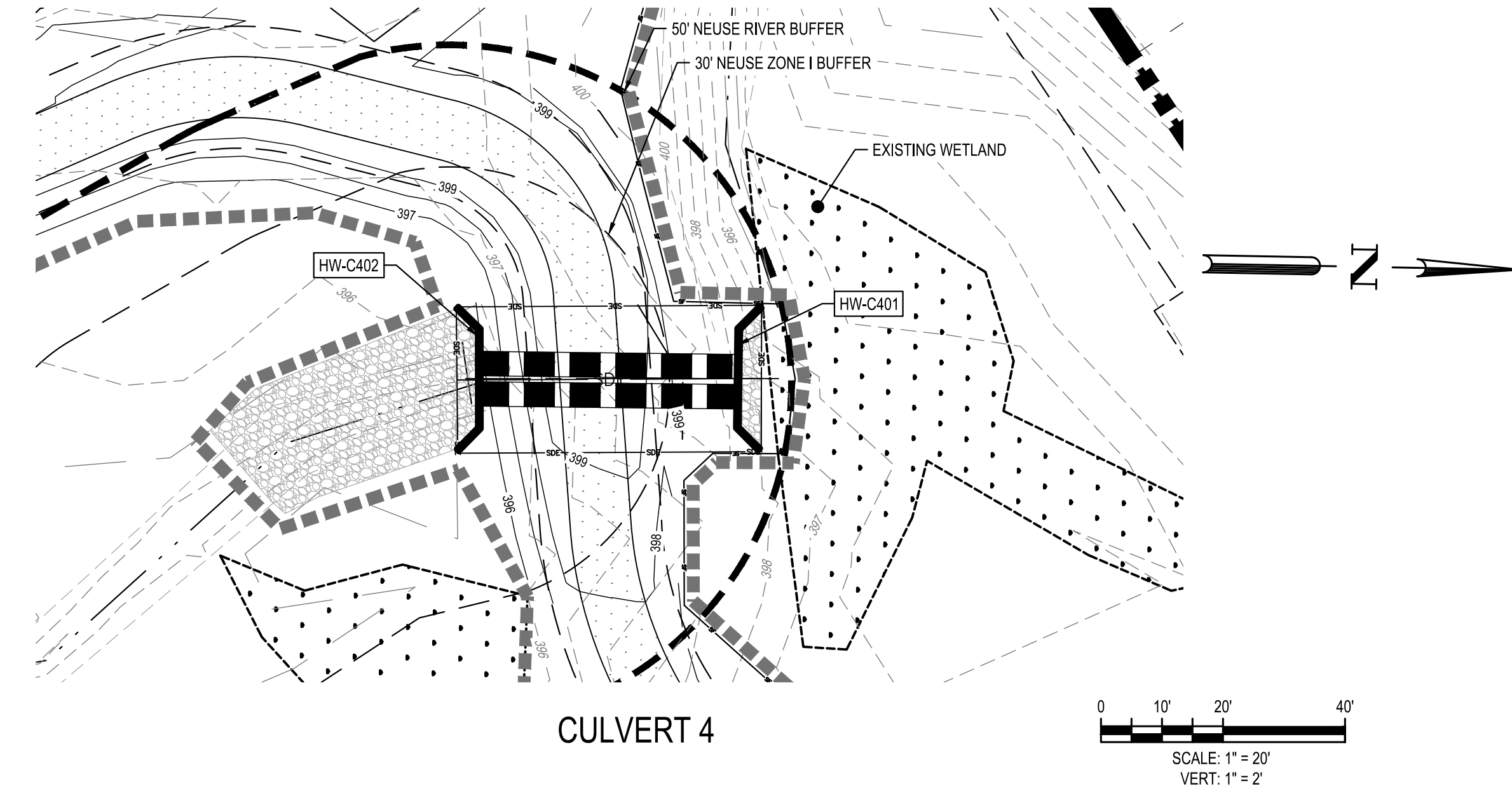


**NOTES (DEWATERING FILTER BAG)**

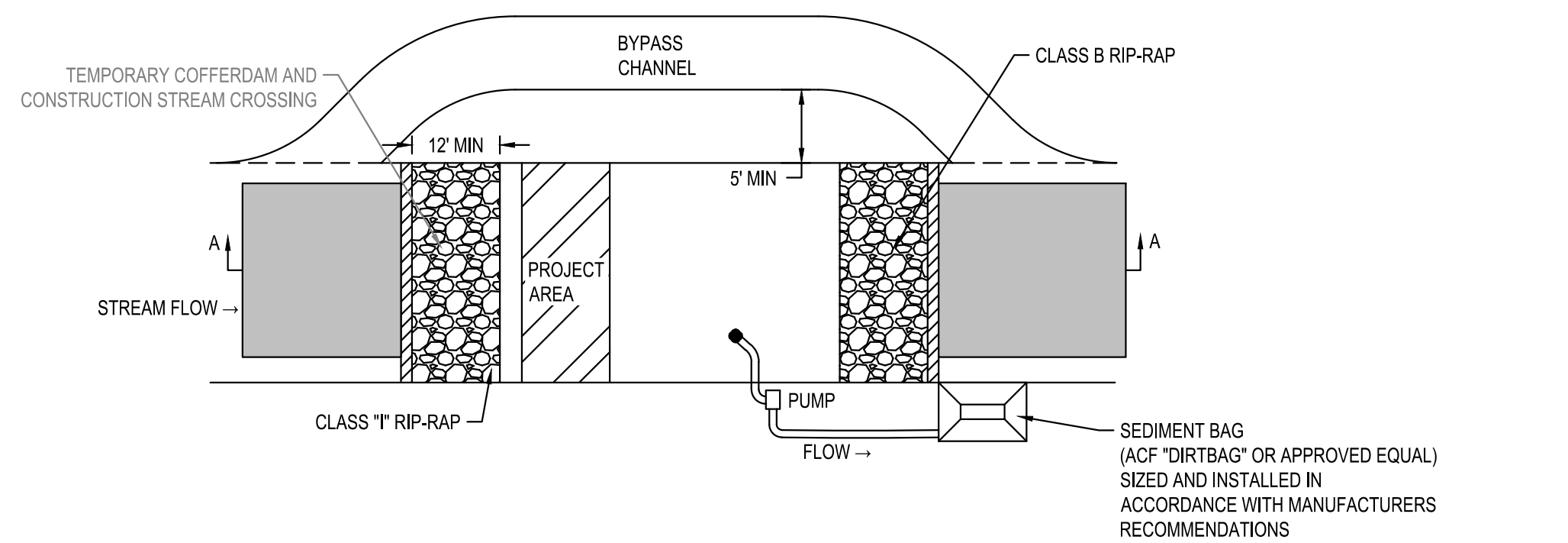
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2. THE DIMENSIONS OF THE DEWATERING FILTER BAG SHOWN ON THIS DRAWING MAY VARY PER VENDOR SPECIFICATIONS.
3. DEWATERING BAGS SHALL BE EQUIPPED WITH A SEW IN SLEEVE OF SUFFICIENT SIZE TO ACCEPT THE PUMP/SIPHON DISCHARGE HOSE. THE DISCHARGE HOSE SHOULD BE EXTENDED INTO THIS SLEEVE A MINIMUM OF SIX INCHES AND BE TIGHTLY SECURED WITH A HOSE CLAMP OR OTHER SUITABLE MEANS TO PREVENT LEAKAGE. HOSE CONNECTION THROUGH A SLIT IN THE BAG WILL NOT BE ACCEPTABLE.
4. THE PUMP DISCHARGE HOSE CONNECTION SLEEVE SHALL BE SECURELY TIED OFF DURING DISPOSAL OF THE DEWATERING FILTER BAG IN ORDER TO PREVENT LEAKAGE OF COLLECTED SEDIMENTS.
5. THE DEWATERING FILTER BAG SHALL BE REPLACED WHEN SIX INCHES OF SEDIMENT HAS ACCUMULATED OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. CONTRACTOR SHALL SIZE THE BAG BASED ON THE MAXIMUM FLOW OF THE PUMP OR SIPHON REQUIREMENTS.

**MAINTENANCE NOTES**

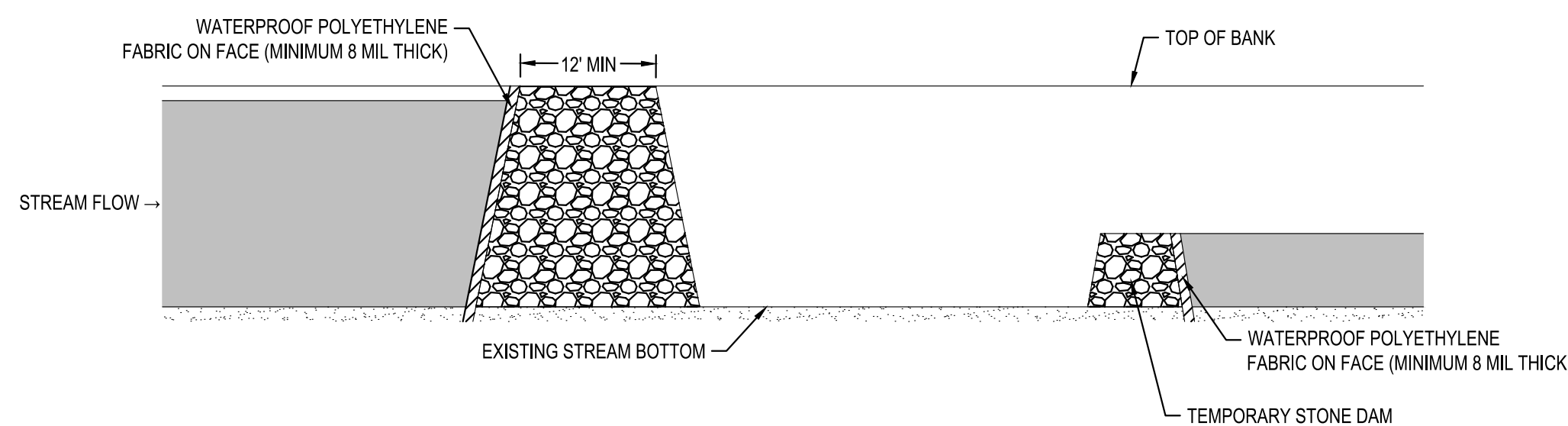
1. INSPECT DAILY DURING BYPASS OPERATION. ANY DAMAGE TO THE SEDIMENT FILTER BAG SHALL BE REPAIRED IMMEDIATELY.
2. DEWATERING FILTER SHALL BE REPLACED WHEN 6" OF SEDIMENT HAS ACCUMULATED OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. MONITOR THE DEWATERING FILTER BAG REGULARLY FOR THE PRESENCE OF TURBID WATER BEING DISCHARGED. IF ANY TURBID WATER IS BEING DISCHARGED FROM THE BAG THE SITUATION SHALL BE RESOLVED IMMEDIATELY. IF THE TEMPORARY BLOCKAGES ARE NOT FOUND, ASSUME THE BAG IS AT SEDIMENT CAPACITY AND REPLACE IMMEDIATELY.



- NOTES:**
1. TEMPORARY BYPASS AND CULVERT SHALL BE INSTALLED IN AT LEAST 3 DAYS OF DRY CONDITIONS.
  2. SILT FENCE SHALL BE INSTALLED ALONG STREAM BANKS AT THE END OF EACH WORKDAY TO MINIMIZE IMPACTS



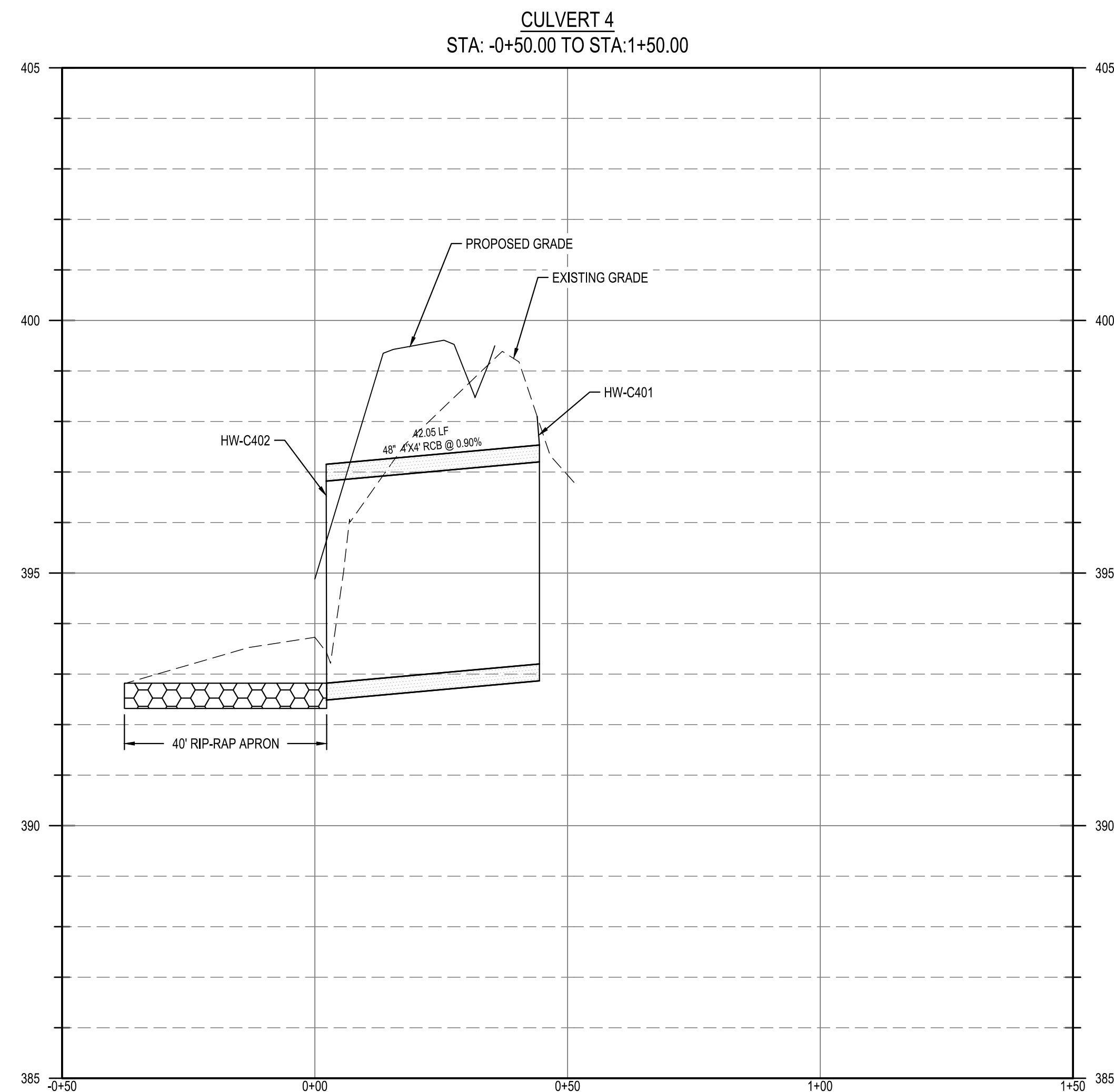
**PLAN**



**SECTION A-A**

**TEMPORARY STREAM CROSSING BYPASS**

NOT TO SCALE



G:\NCA\Projects\Lenmar\8430-03 - Lenmar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C5-4 - SWM-POND.dwg Layout: C7-7 CULVERT 4 PLAN Plotted: 3/12/2024 9:20:53 AM

02/14/2024	PER TOWN OF ROLESVILLE COMMENT
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DRAWN BY: DF/JWM  
REVIEWED BY: DF

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**CULVERT 4 PLAN**

PROFESSIONAL ENGINEER  
SEAL 028892  
DEBRA M. FERN  
3/13/2024  
Duhli Fum

FILE NUMBER: 8430-03  
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**C7-7**



**StormRax™  
PEAK ROOF STRUCTURE  
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PROVIDE ALL DIMENSIONS IN INCHES

**HOPPE STRUCTURAL PLASTERBY  
PLASTIC SOLUTIONS INC.**

MOST STRUCTURE INFORMATION	
PART NUMBER	
LENGTH	
WIDTH	
WALL THICKNESS (REQD.)	

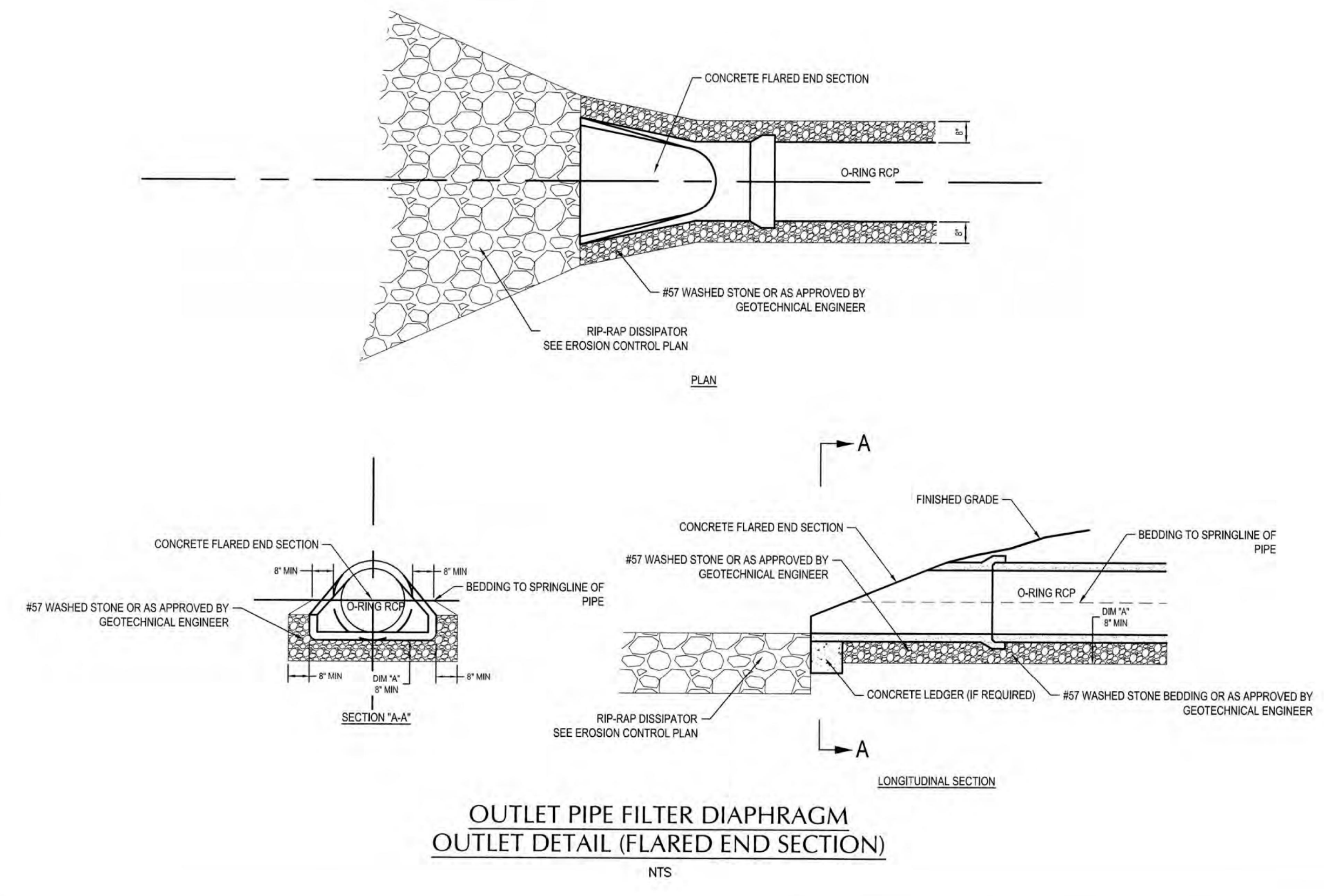
AVAILABLE OPTIONS	
1" CHANNEL STEEL CROSS-BRACING	
REMOVABLE ACCESS HATCH	
HOPPE ANTI-VORTEX PLATE	

NOTES: 1. GARBE END SHOULD BE SHORTER END WHEN MEASURING.  
2. MEASUREMENT CHANGES WILL OCCUR WHEN ACCESS DOORS ARE  
NEEDED AND LARGER PLACEMENT IS DETERMINED.

DIMENSION CODES (A, B, C)	
WIDTH (A)	28 1/8, 36 1/8, 45 1/8, 54 1/8, 66 3/8, 81 3/8, 99 3/8, 126 3/8
DEPTH (B)	12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000
HEIGHT (C)	18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108, 114, 120, 126, 132, 138, 144, 150, 156, 162, 168, 174, 180, 186, 192, 198, 204, 210, 216, 222, 228, 234, 240, 246, 252, 258, 264, 270, 276, 282, 288, 294, 300, 306, 312, 318, 324, 330, 336, 342, 348, 354, 360, 366, 372, 378, 384, 390, 396, 402, 408, 414, 420, 426, 432, 438, 444, 450, 456, 462, 468, 474, 480, 486, 492, 498, 504, 510, 516, 522, 528, 534, 540, 546, 552, 558, 564, 570, 576, 582, 588, 594, 600, 606, 612, 618, 624, 630, 636, 642, 648, 654, 660, 666, 672, 678, 684, 690, 696, 702, 708, 714, 720, 726, 732, 738, 744, 750, 756, 762, 768, 774, 780, 786, 792, 798, 804, 810, 816, 822, 828, 834, 840, 846, 852, 858, 864, 870, 876, 882, 888, 894, 900, 906, 912, 918, 924, 930, 936, 942, 948, 954, 960, 966, 972, 978, 984, 990, 996, 1000

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APPROVED BY: \_\_\_\_\_  
DETAILS: \_\_\_\_\_



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10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV 06/01/2023	INITIAL SUBMITTAL

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DRAWN BY: DF/JWM  
REVIEWED BY: DF

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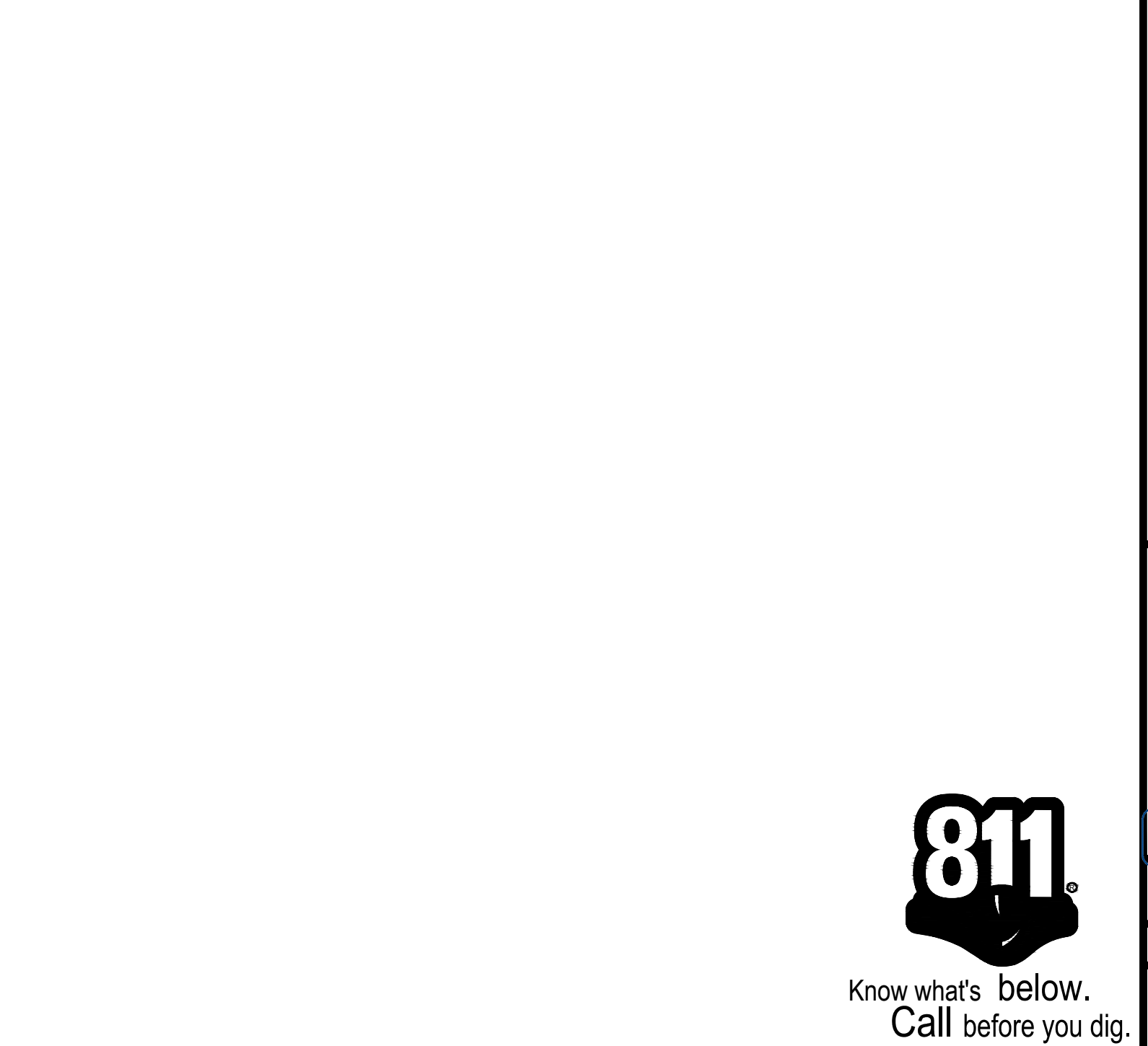
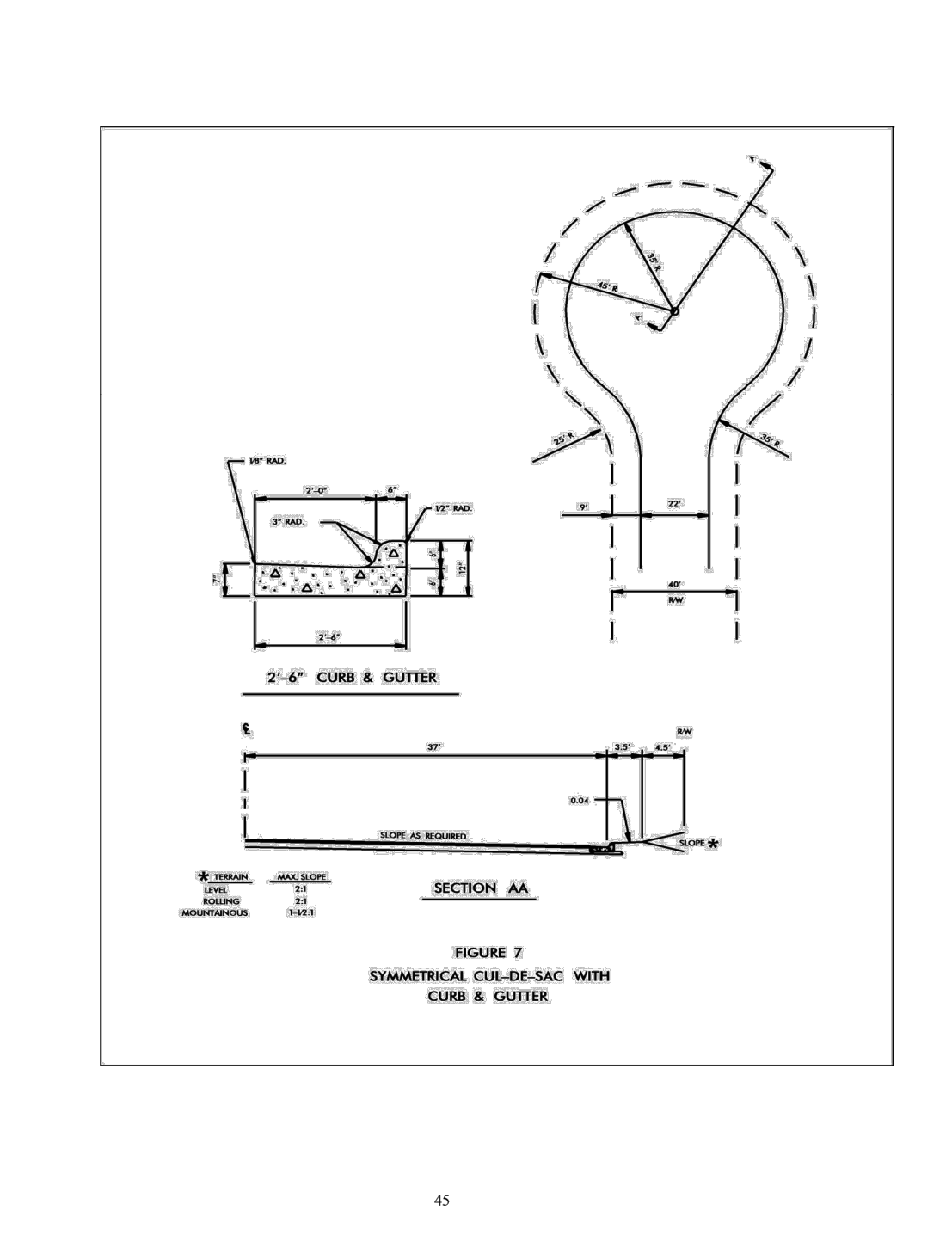
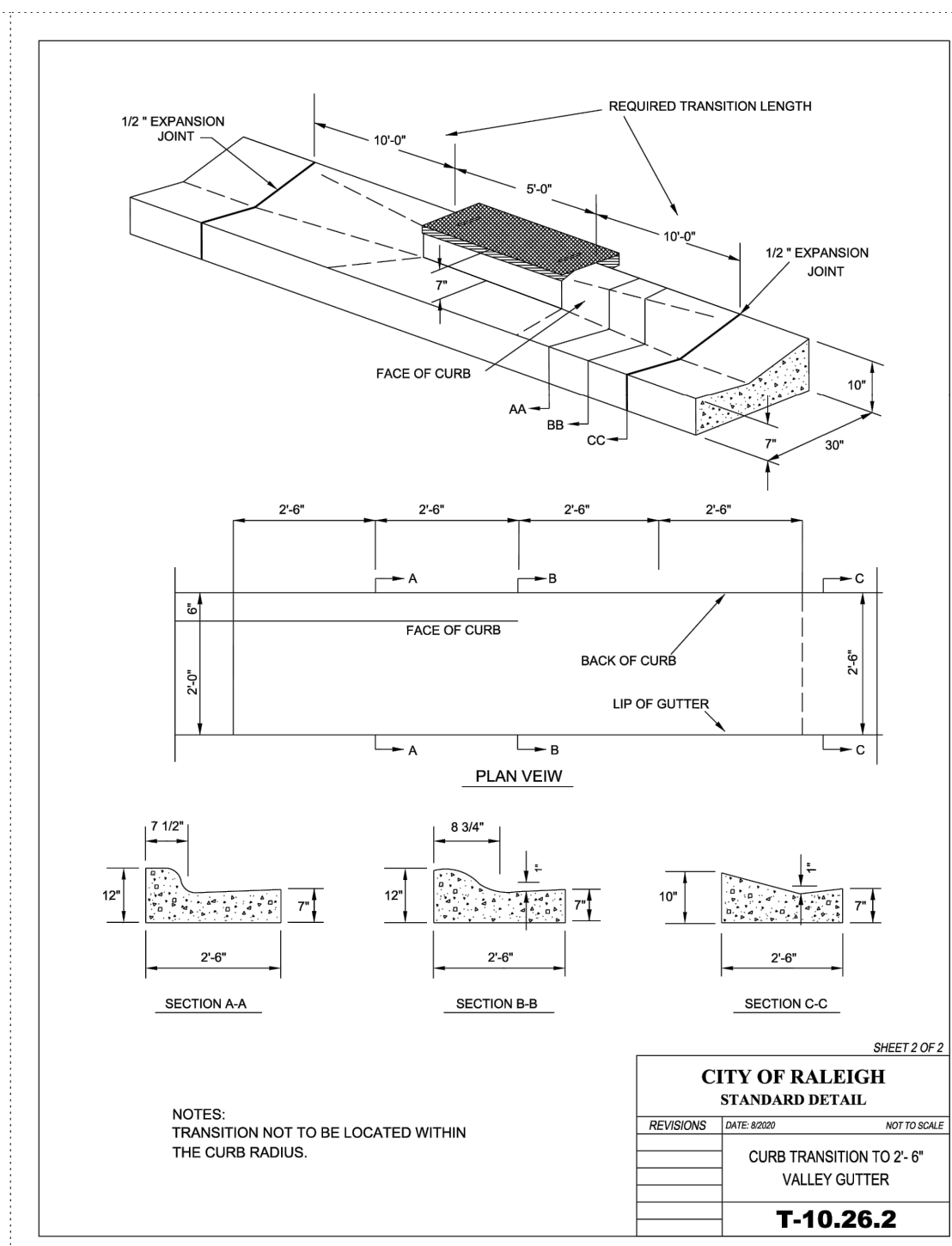
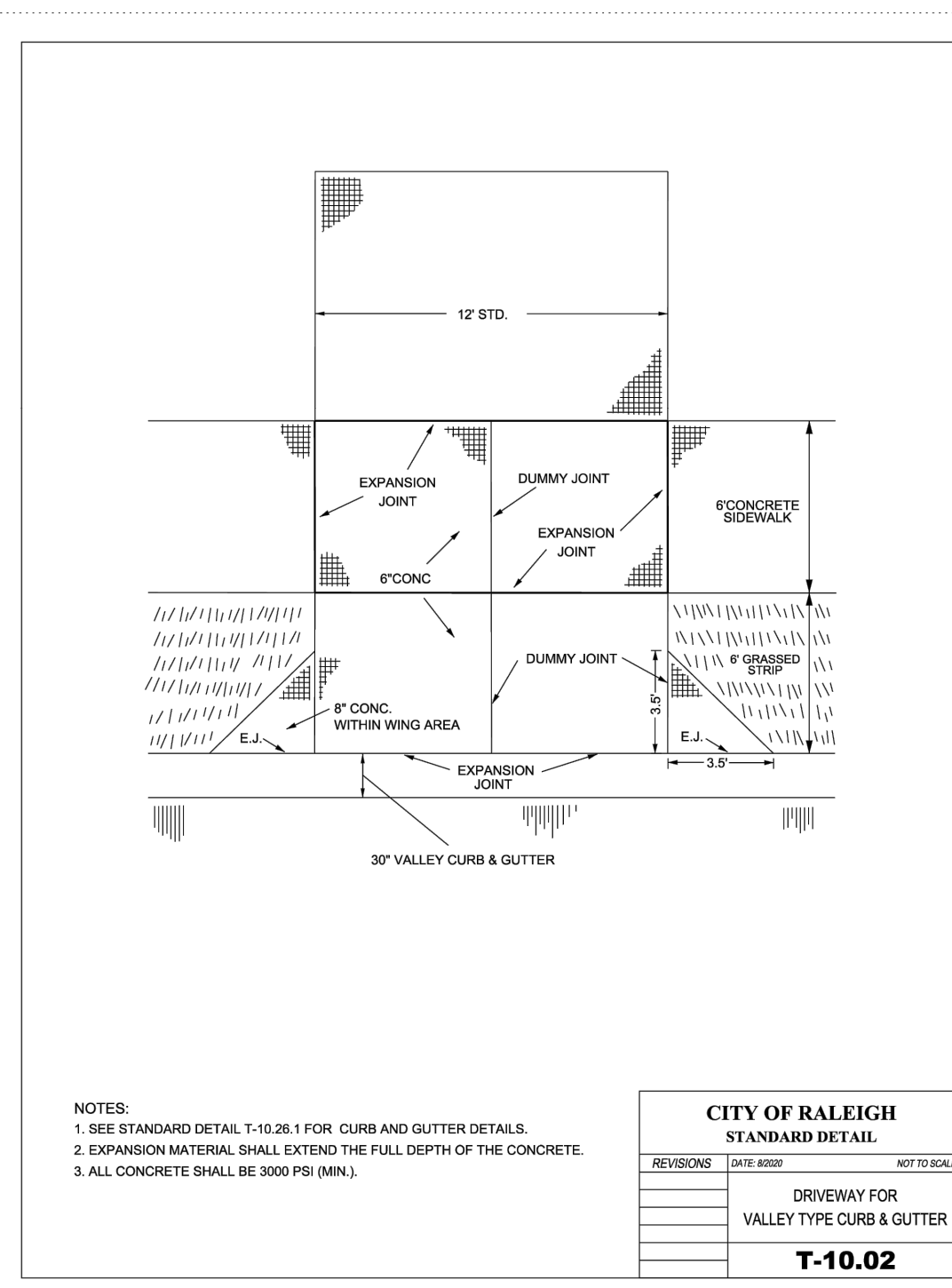
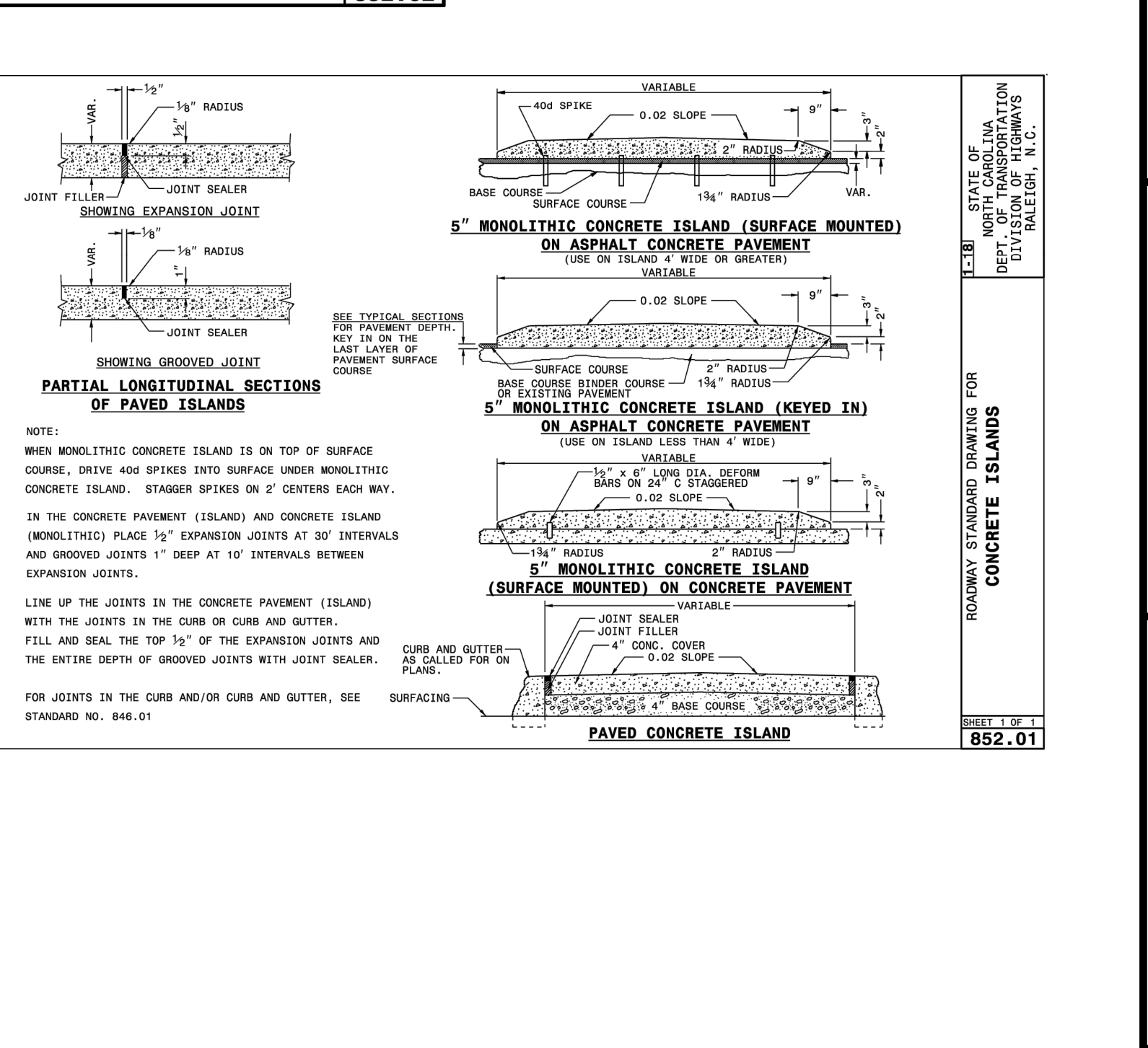
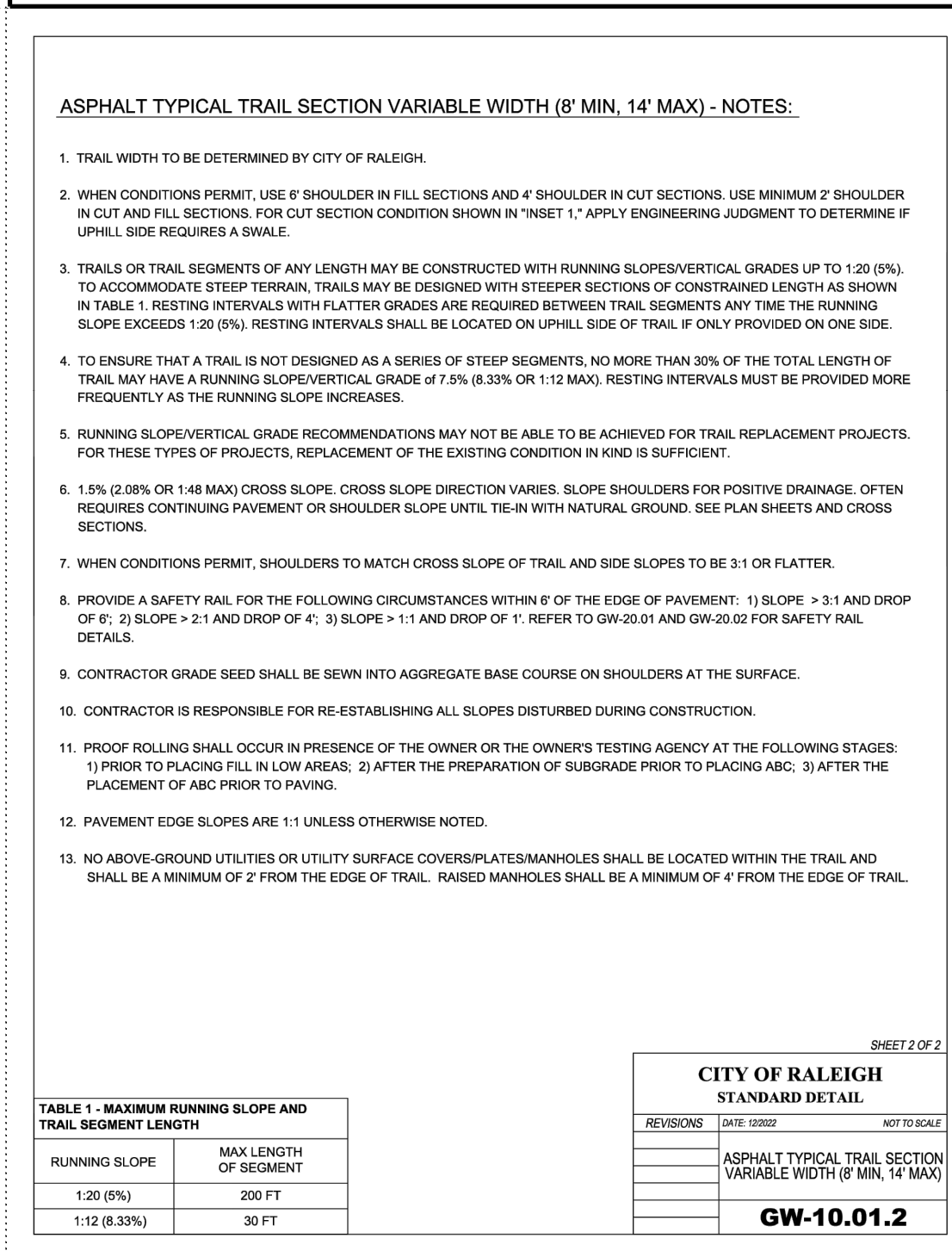
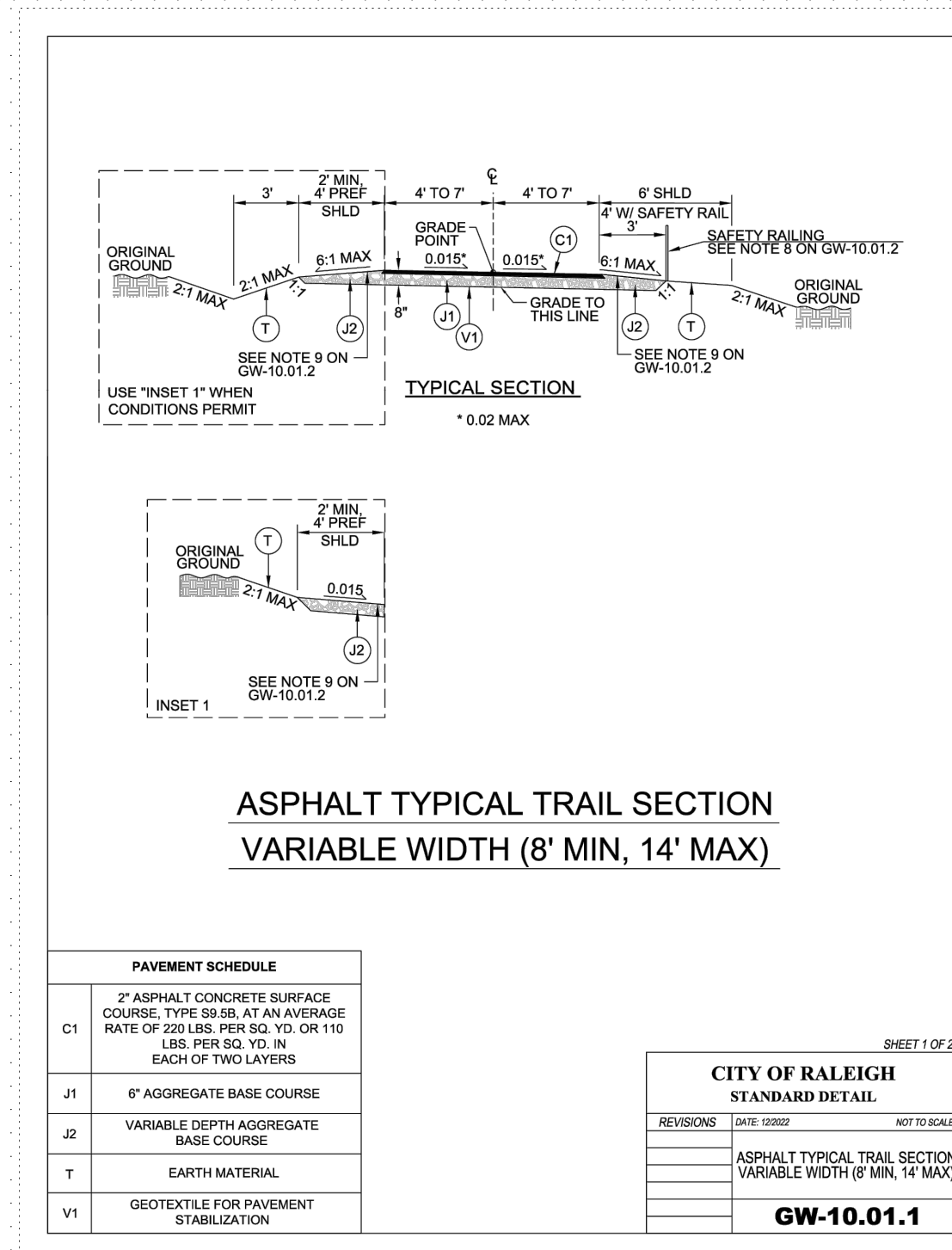
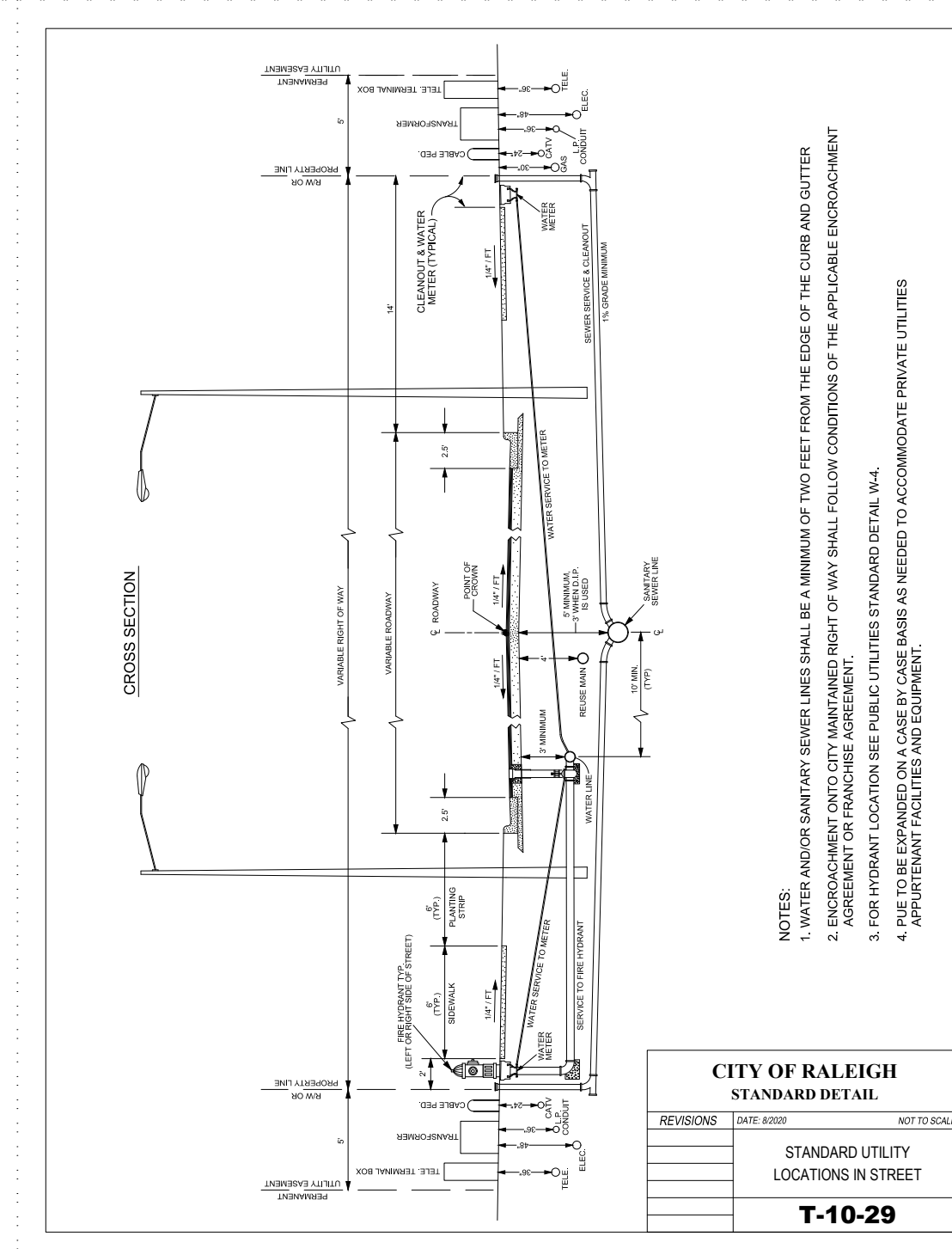
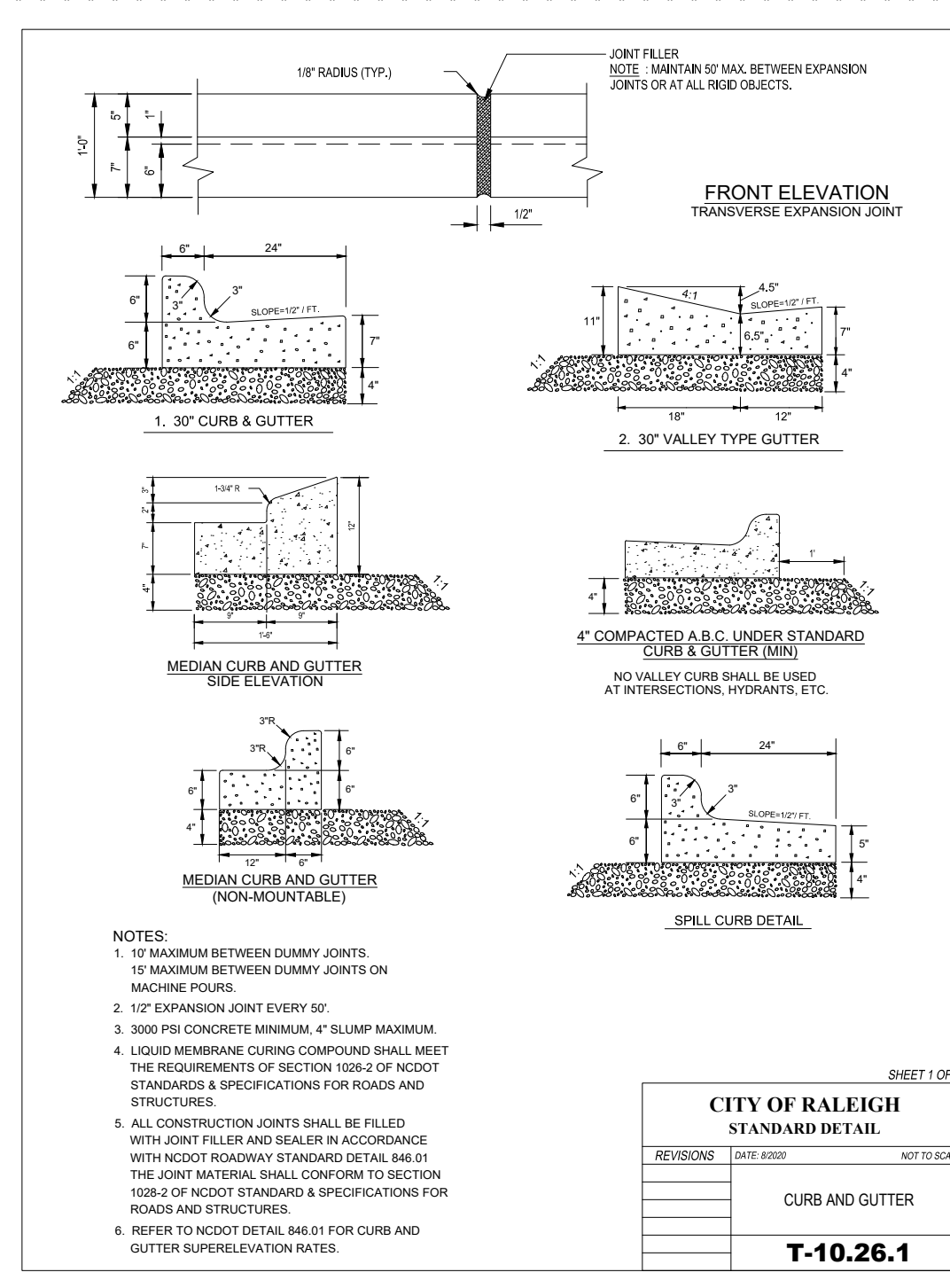
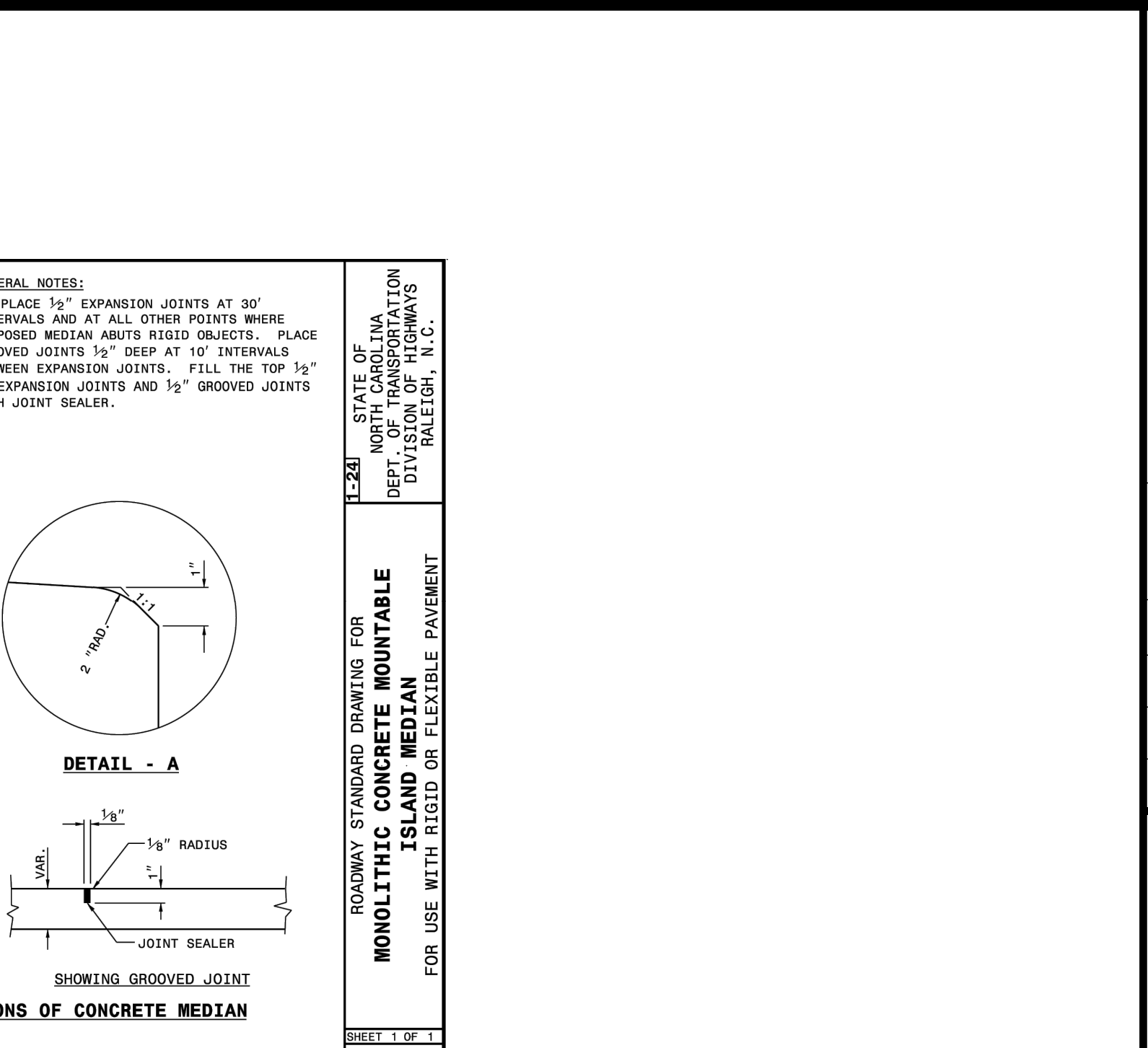
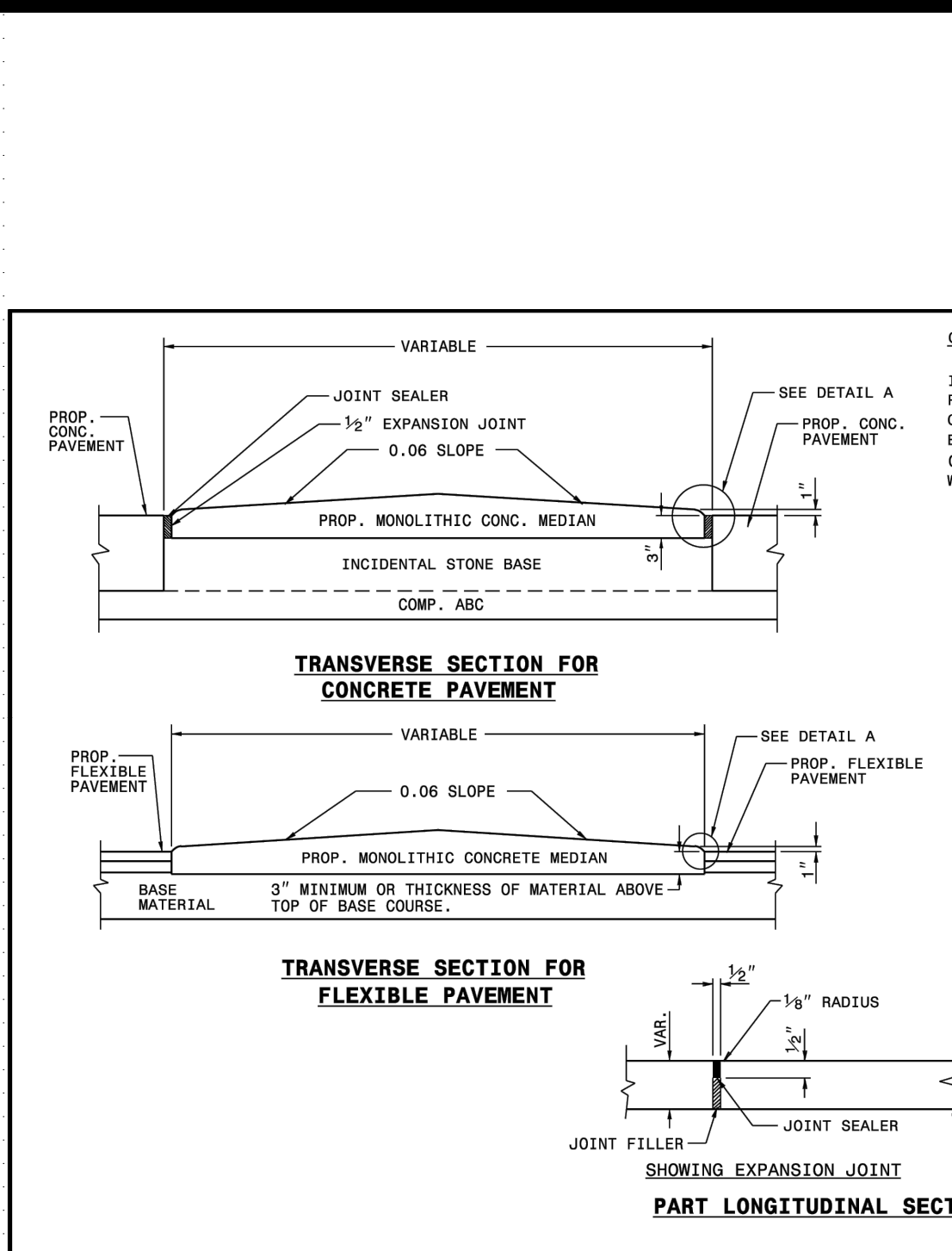
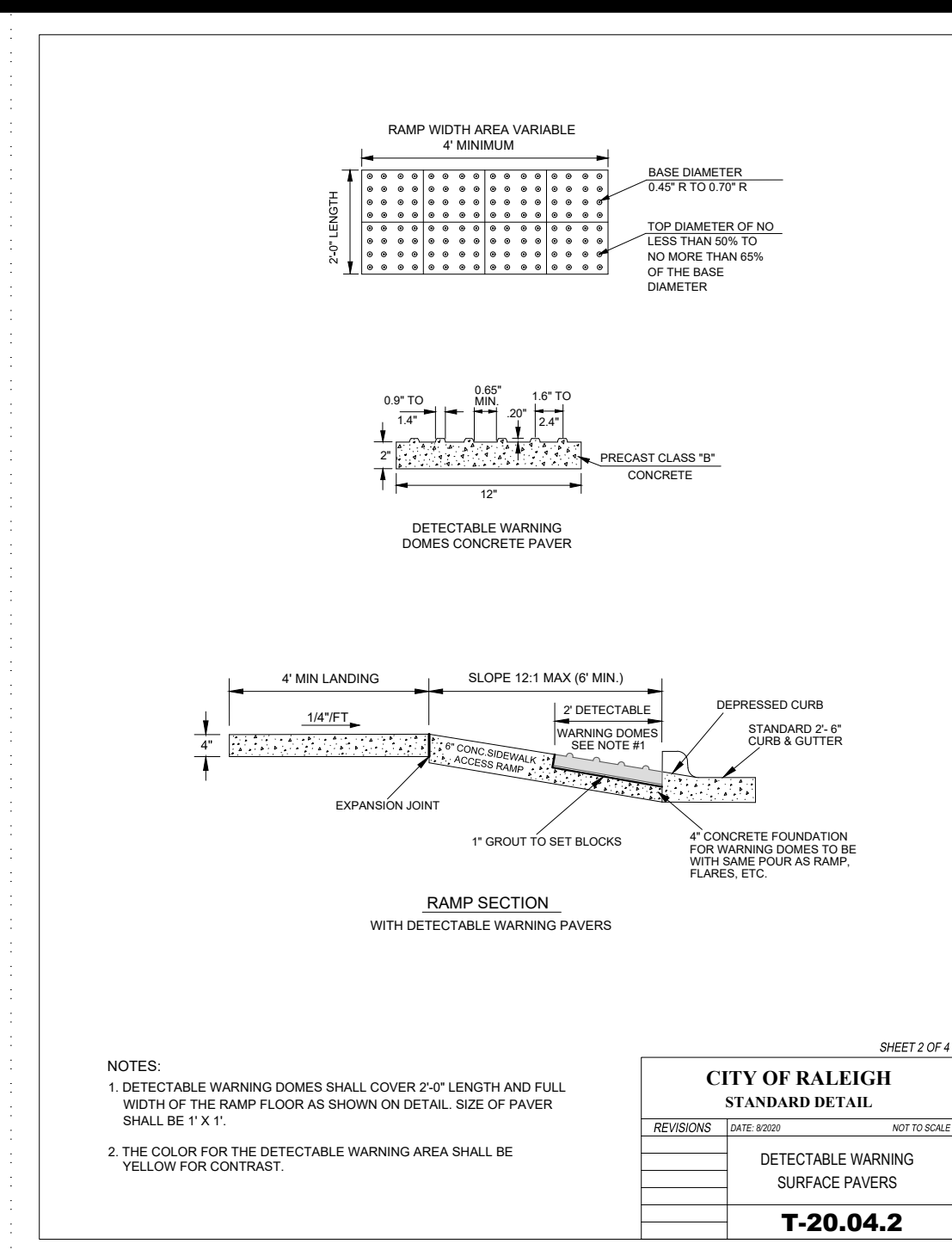
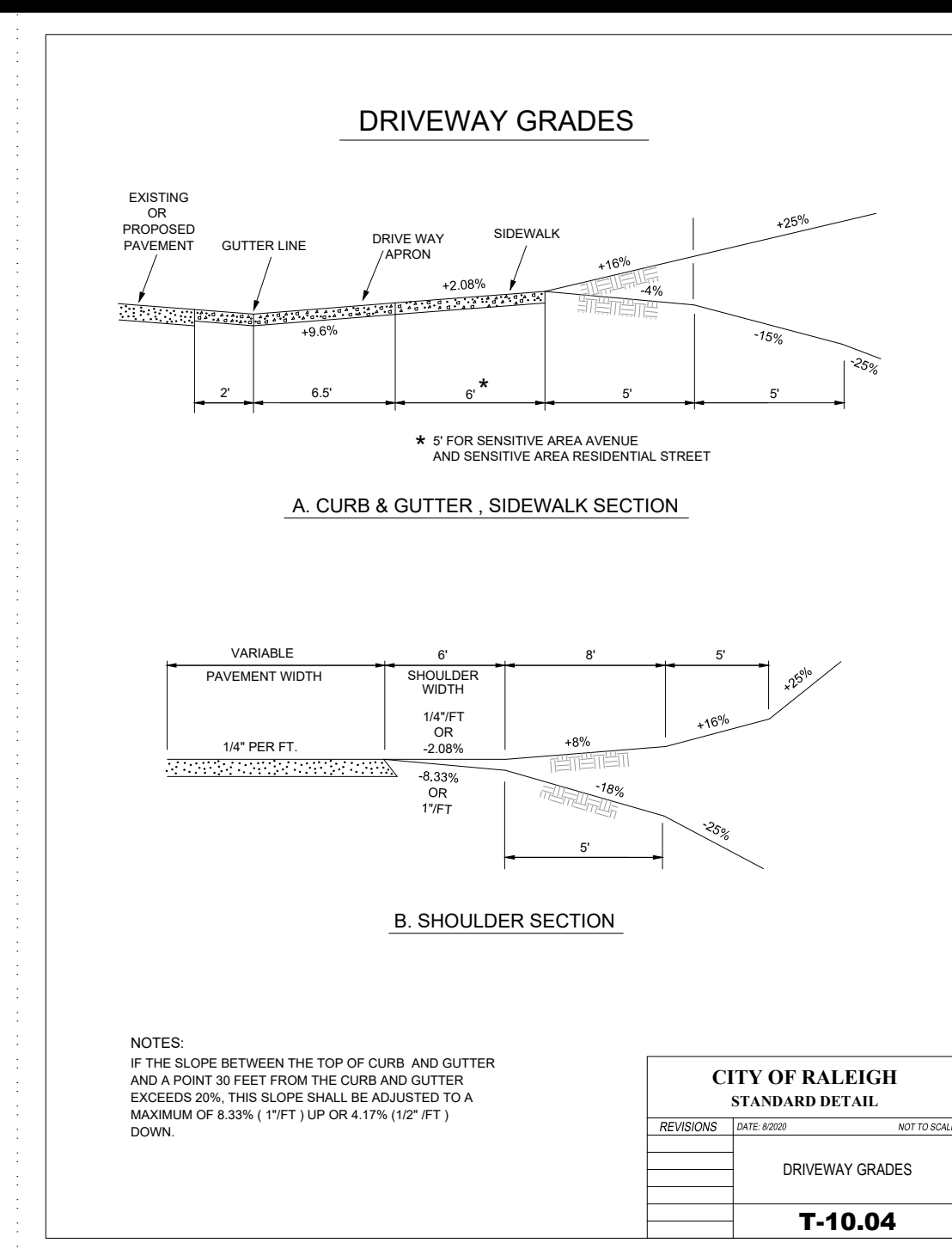
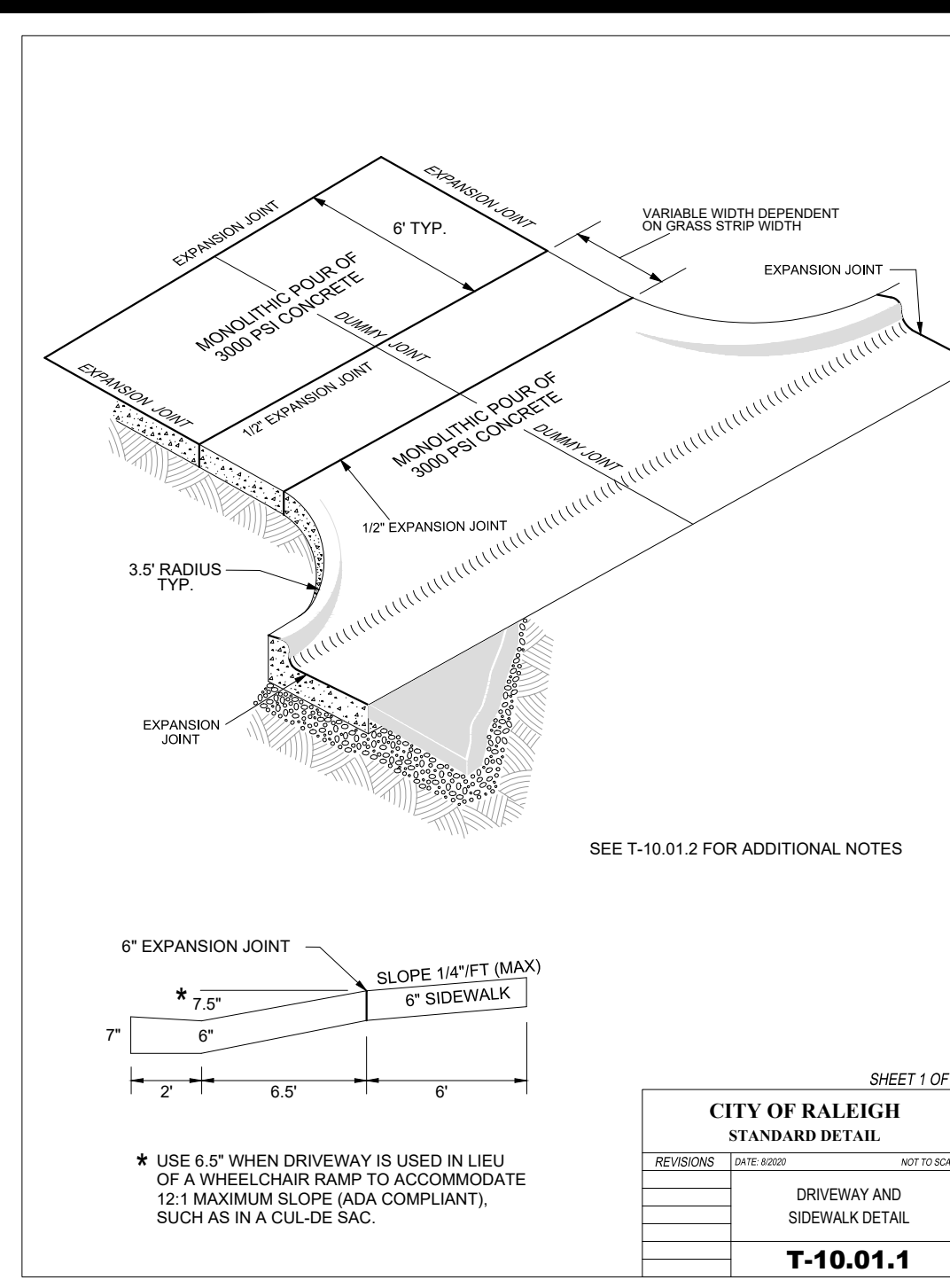
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**SCM DETAILS**

North Carolina Professional Engineer  
SEAL 028892  
DEBRA M. FERN  
3/13/2024  
FILE NUMBER: 8430-03  
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C7-8





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 DRAWN BY: DF/JWM  
 REVIEWED BY: DF

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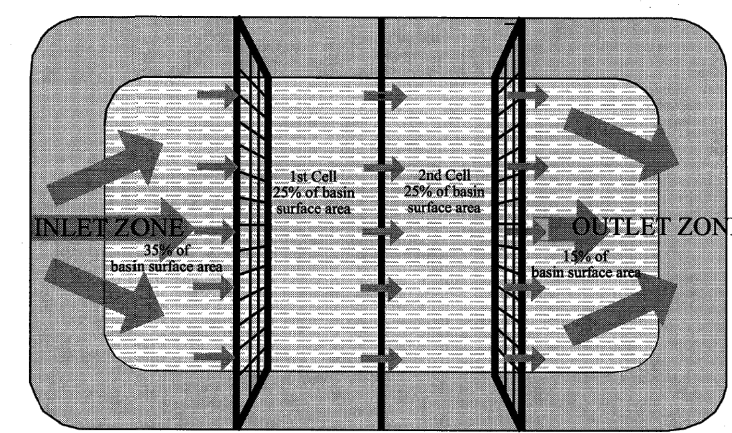






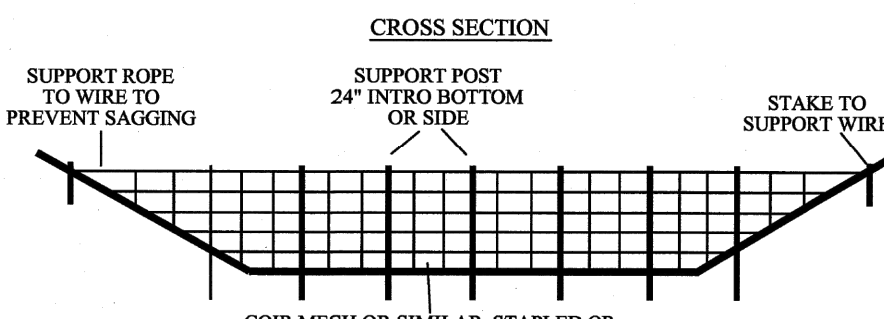


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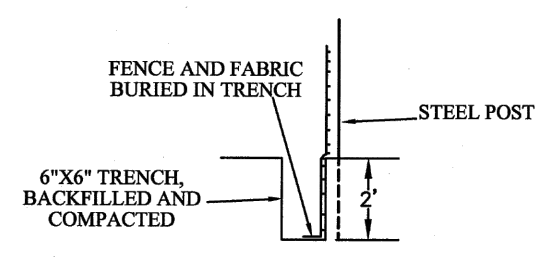


- NOTES:
1. BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM AND SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
  2. MOST OF THE SEDIMENT WILL ACCUMULATE IN THE 1ST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
  3. PROVIDE 3 BAFFLES (USE TWO IF LESS THAN 20 FEET IN LENGTH), PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
  4. BAFFLE SHALL BE 70 GZM2 COIR EROSION BLANKET.
  5. TOPS OF BAFFLES SHOULD BE 2 INCHES LOWER THAN THE TOP OF THE BERMS.
  6. INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.

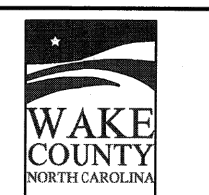
PLAN VIEW



CROSS SECTION

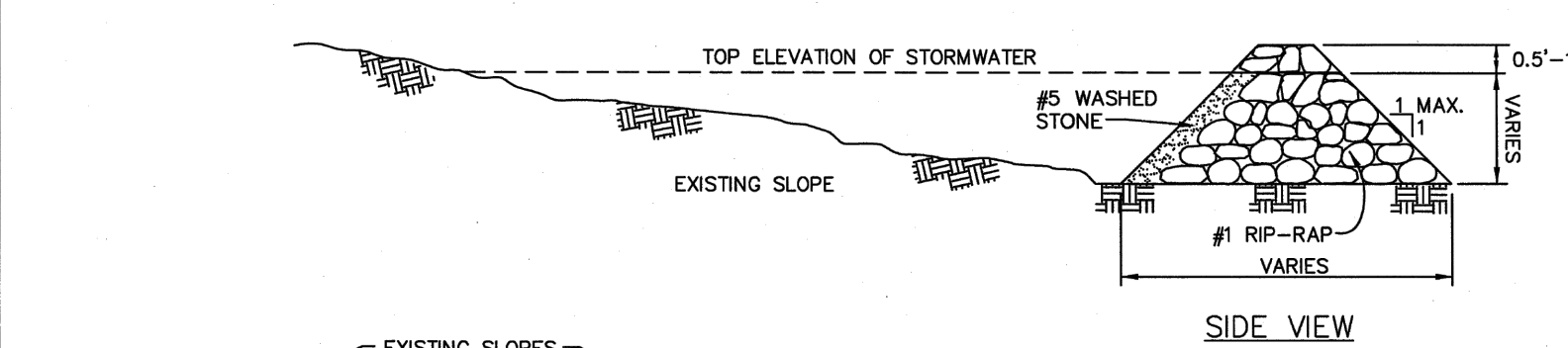


SECTION VIEW AT OPENING

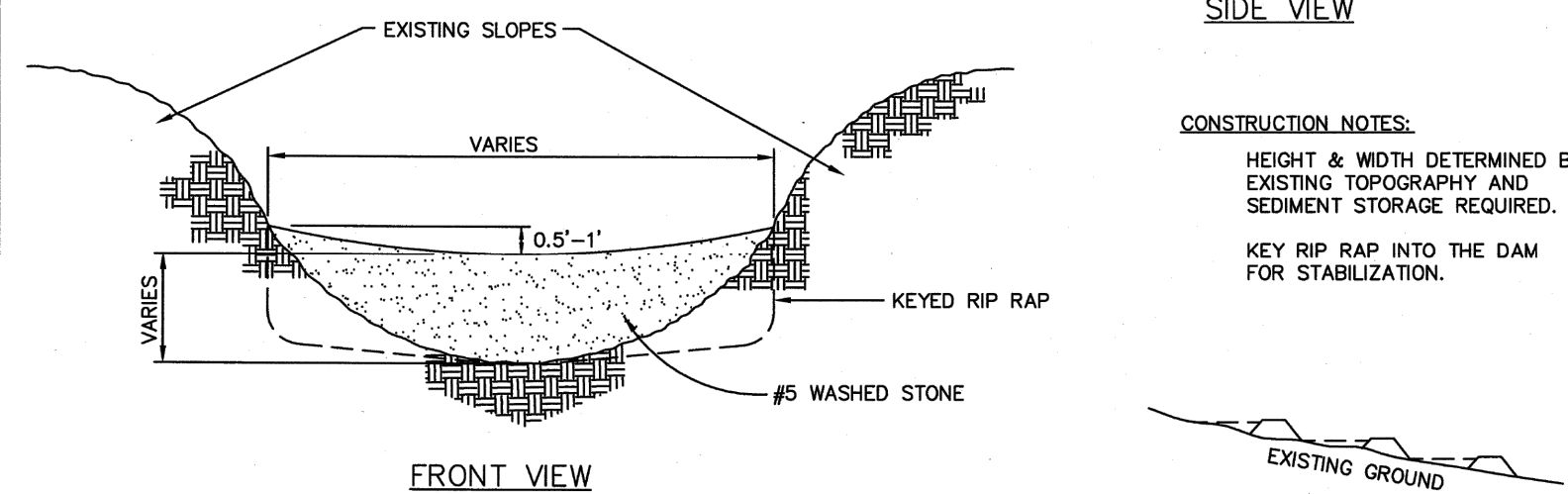


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STANDARD BAFFLES DETAIL



SIDE VIEW

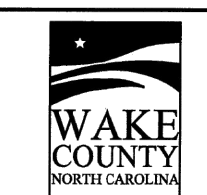


FRONT VIEW

STEP SEQUENCE

- CONSTRUCTION NOTES:
- HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
- KEY RIP RAP INTO THE DAM FOR STABILIZATION.

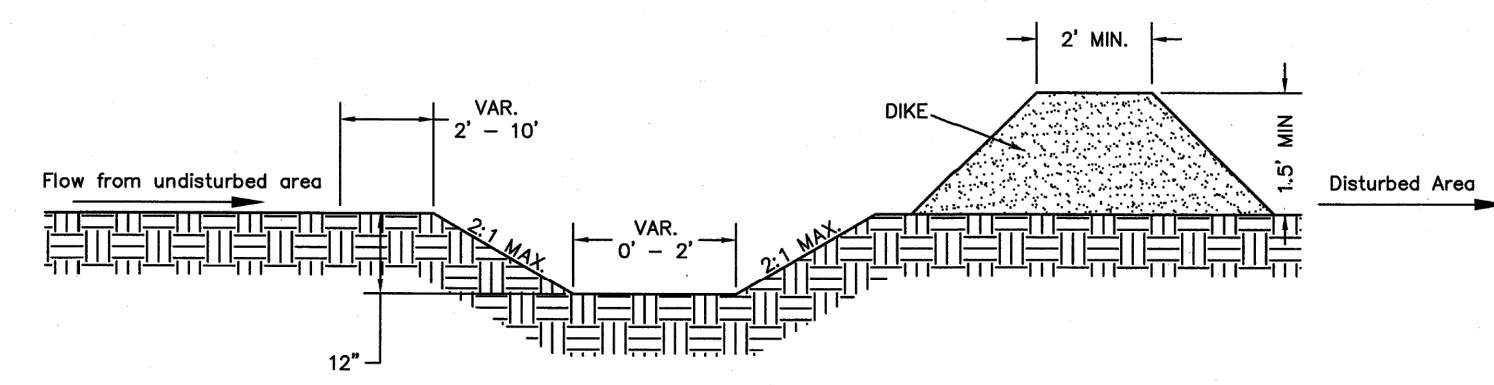
- NOTE: REMOVE SEDIMENT ACCUMULATION FROM BEHIND CHECK DAMS TO PREVENT DAMAGE TO CHANNEL VEGETATION. FLOW SHOULD BE MAINTAINED THROUGH THE DAM.



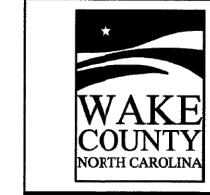
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STANDARD CHECK DAM

- NOTES:
1. DIVERSION TO BE USED UPSLOPE OF A CONSTRUCTION SITE TO PREVENT STORM RUNOFF FROM ENTERING THE DISTURBED AREA. IMMEDIATELY LINE AND STABILIZE BEFORE ANY DOWNSLOPE GRADING BEGINS (STABILIZATION MUST OCCUR BEFORE ISSUANCE OF A CERTIFICATE OF COMPLIANCE). STABILIZATION METHOD IS BASED ON VELOCITY OF OFFSITE DRAINAGE.
  2. DIVERSIONS SHOULD ONLY BE USED FOR DRAINAGES 5 ACRES OR LESS.
  3. ANY SEDIMENT LOADED WATER PRIOR TO STABILIZATION OF THE DIVERSION MUST BE DIVERTED INTO AN APPROVED EROSION AND SEDIMENT CONTROL BMP. CLEAN WATER SHOULD EMPTY INTO AN APPROVED OUTLET DEVICE.

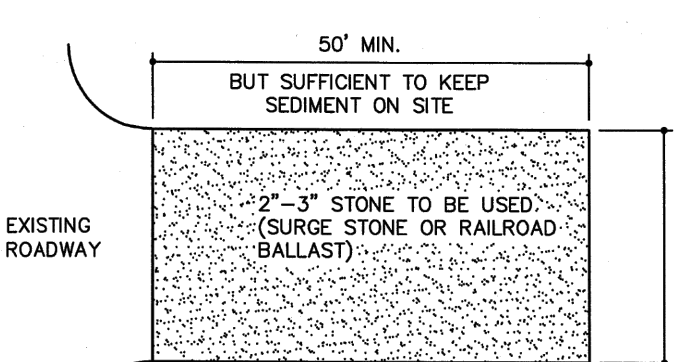


CROSS SECTIONAL VIEW



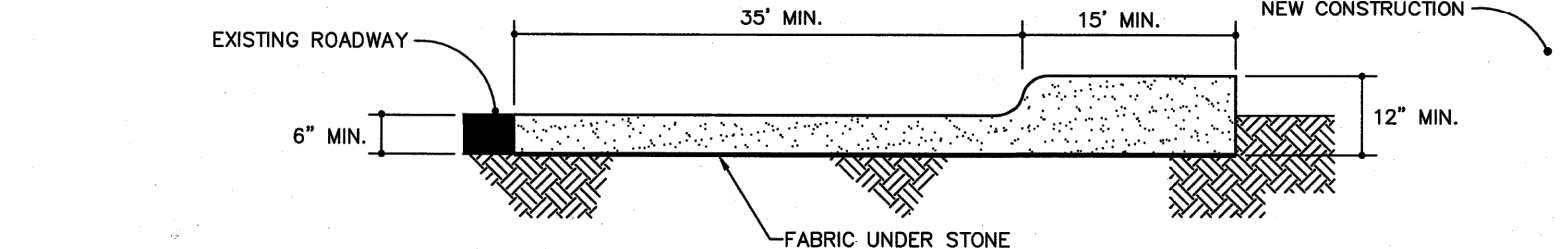
EFFECTIVE: 01/31/08

STANDARD CLEAN WATER DIVERSION

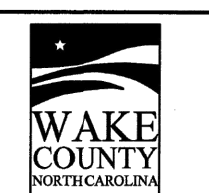


PLAN VIEW

- NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
  2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
  3. MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. ENTRANCE WILL REQUIRE PERIODIC REMOVAL OF SEDIMENT-LADEN STONE AND REPLACEMENT WITH FRESH STONE.



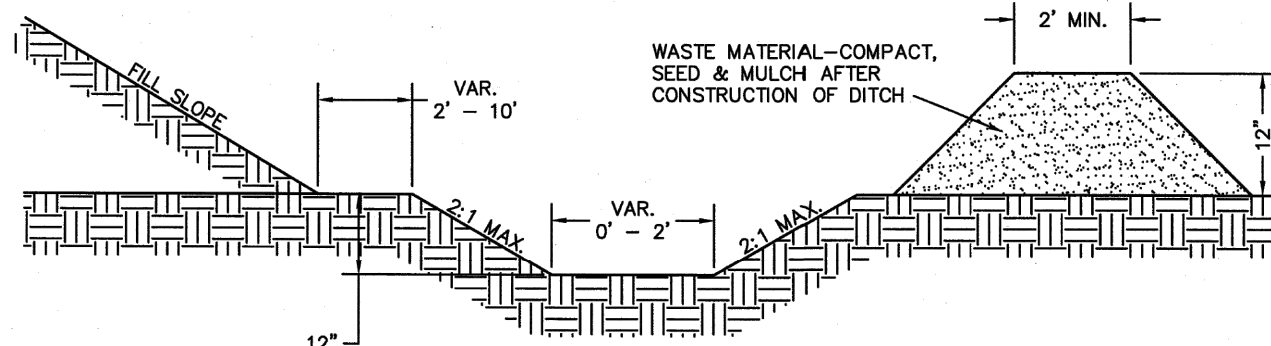
CROSS SECTION



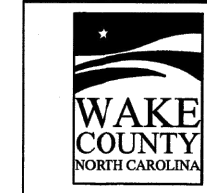
EFFECTIVE: 01/31/08

STANDARD CONSTRUCTION ENTRANCE

- NOTES:
1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
  2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
  3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
  4. STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.

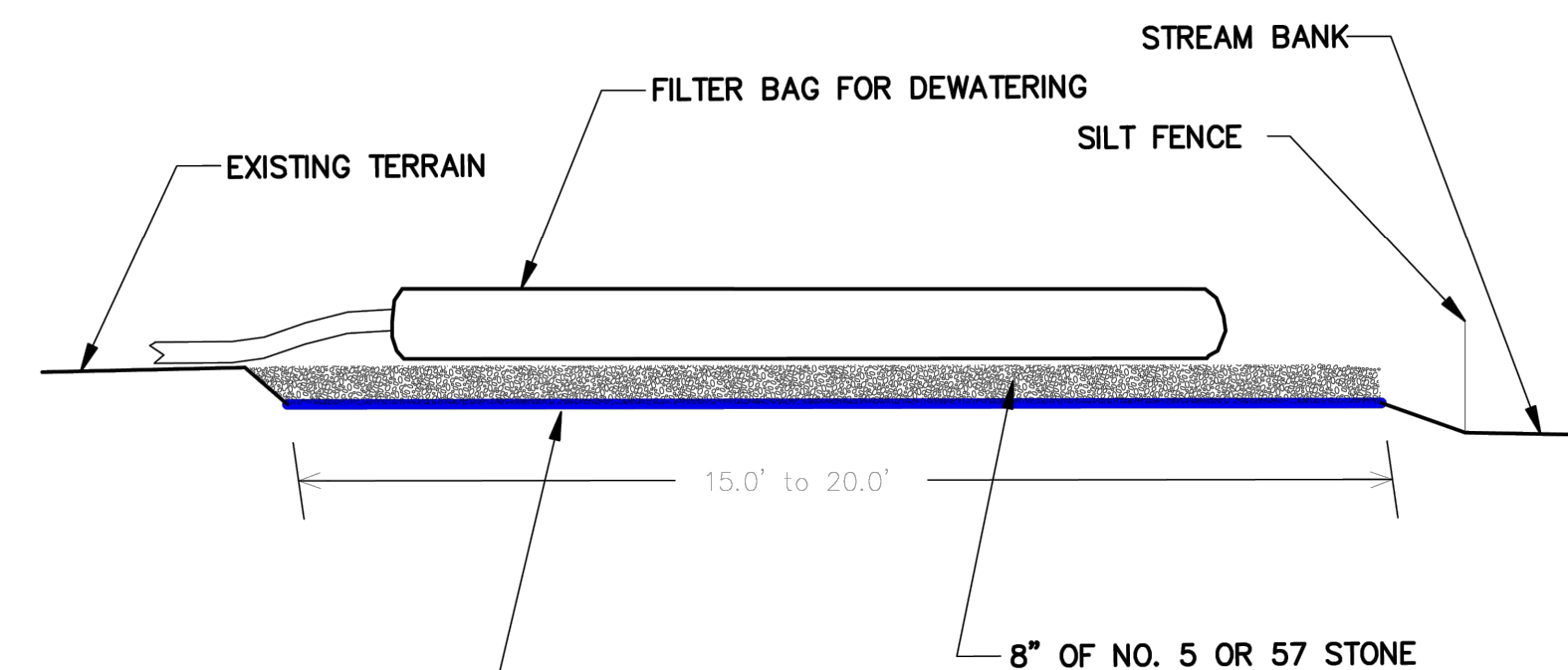


CROSS SECTIONAL VIEW



EFFECTIVE: 01/31/08

STANDARD TEMPORARY DIVERSION DITCH



DRAINAGE GEOTEXTILE

NOTES

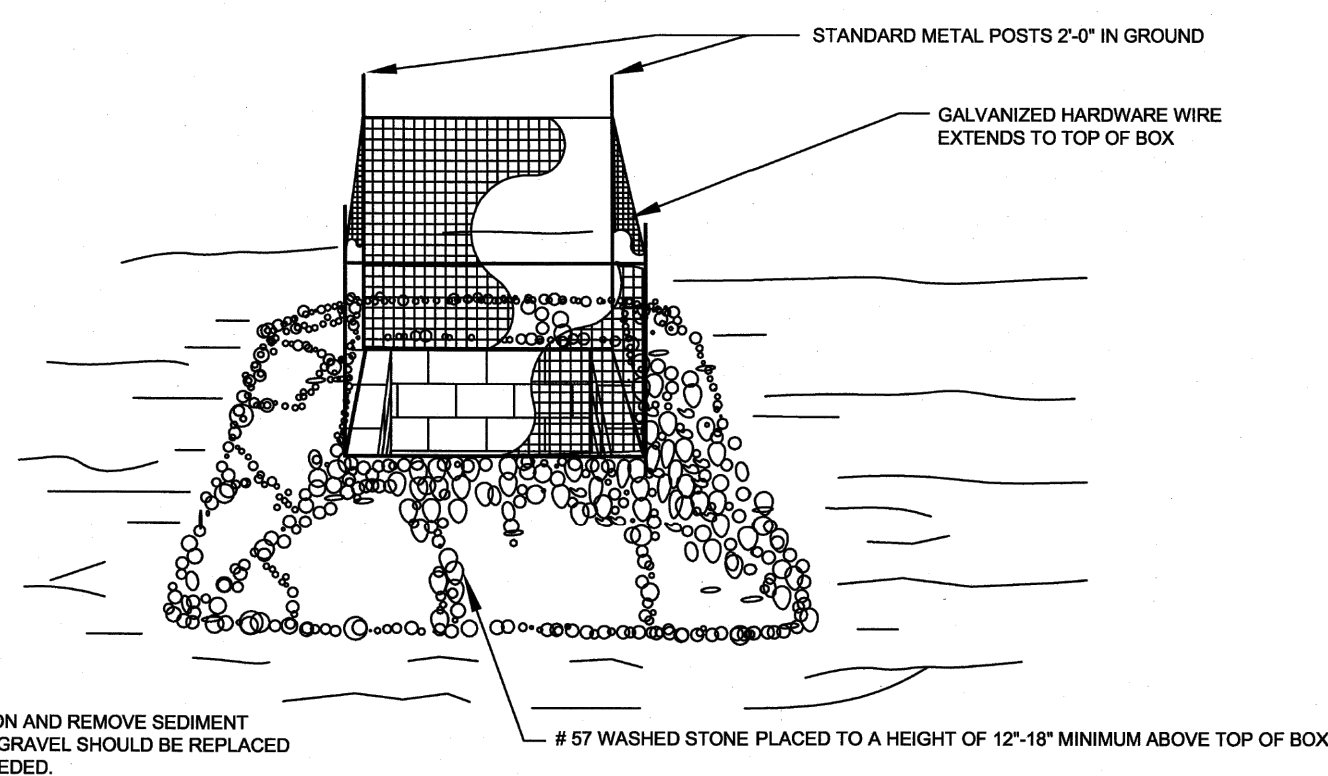
- PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE FILTER BAG FOR DEWATERING ABOVE NATURAL GROUND.

NOT TO SCALE



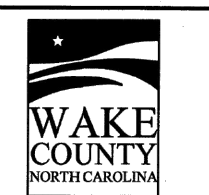
EFFECTIVE: 01/31/08

STANDARD FILTER BAG FOR DEWATERING ACTIVITIES



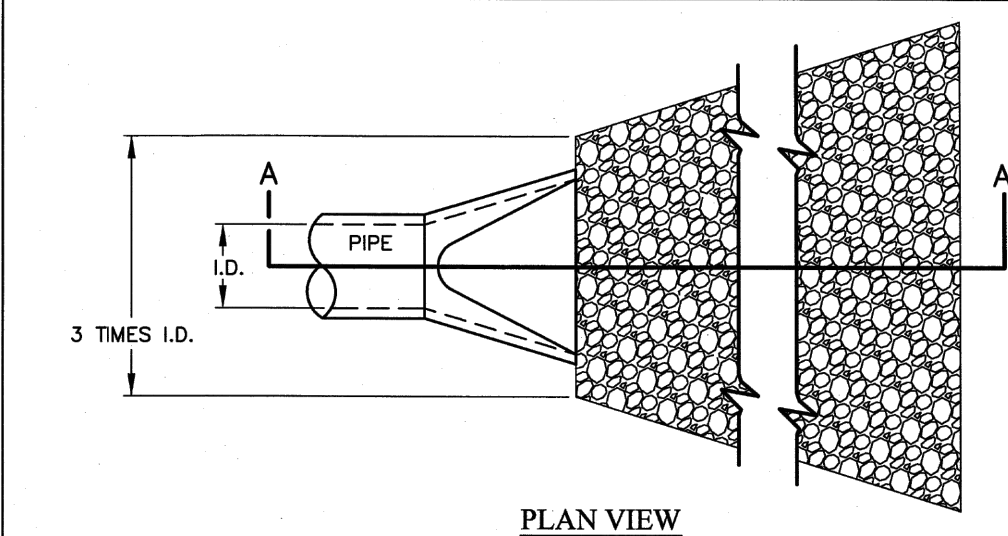
NOTE:

1. INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.



EFFECTIVE: 01/31/08

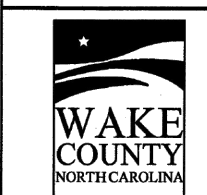
STANDARD GRAVEL YARD INLET PROTECTION



PLAN VIEW

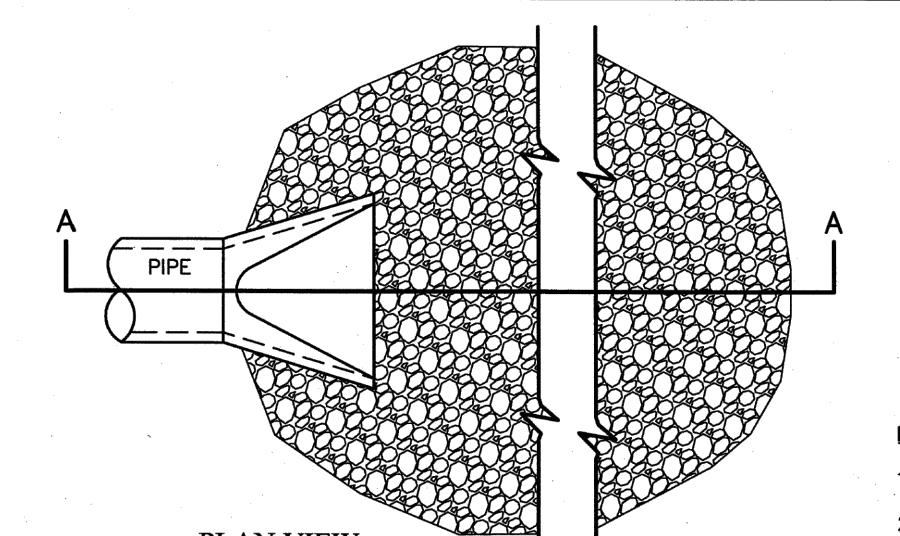
SECTION 'A-A'

- NOTES:
1. L = THE LENGTH OF THE RIPRAP APRON.
  2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
  3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.



EFFECTIVE: 01/31/08

STANDARD PIPE OUTLET TO FLAT AREA NO WELL-DEFINED CHANNEL

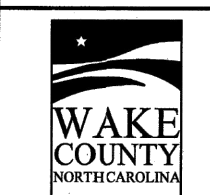


PLAN VIEW

SECTION 'A-A'

NOTES:

1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" (INCHES) ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.



EFFECTIVE: 01/31/08

STANDARD PIPE OUTLET TO WELL-DEFINED CHANNEL

02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV 06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD  
 DRAWN BY: DF/JWM  
 REVIEWED BY: DF

**BCE**  
 5440 WADE PARK BLVD, SUITE 102  
 RALEIGH NC 27607  
 WWW.BCEINC.COM  
 NC LICENSE #C-4397

**LENNAR**  
 CORPORAION  
 1100 PERIMETER PARK DRIVE, SUITE 112  
 MORRISVILLE / NORTH CAROLINA / 27560

**PARKER RIDGE**  
 82 SCHOOL STREET  
 ROLESVILLE / NORTH CAROLINA / 27371

EROSION CONTROL DETAILS  
 (1 OF 2)

PROFESSIONAL ENGINEER  
 SEAL 028892  
 DEBRA M. FERN  
 03/25/2024

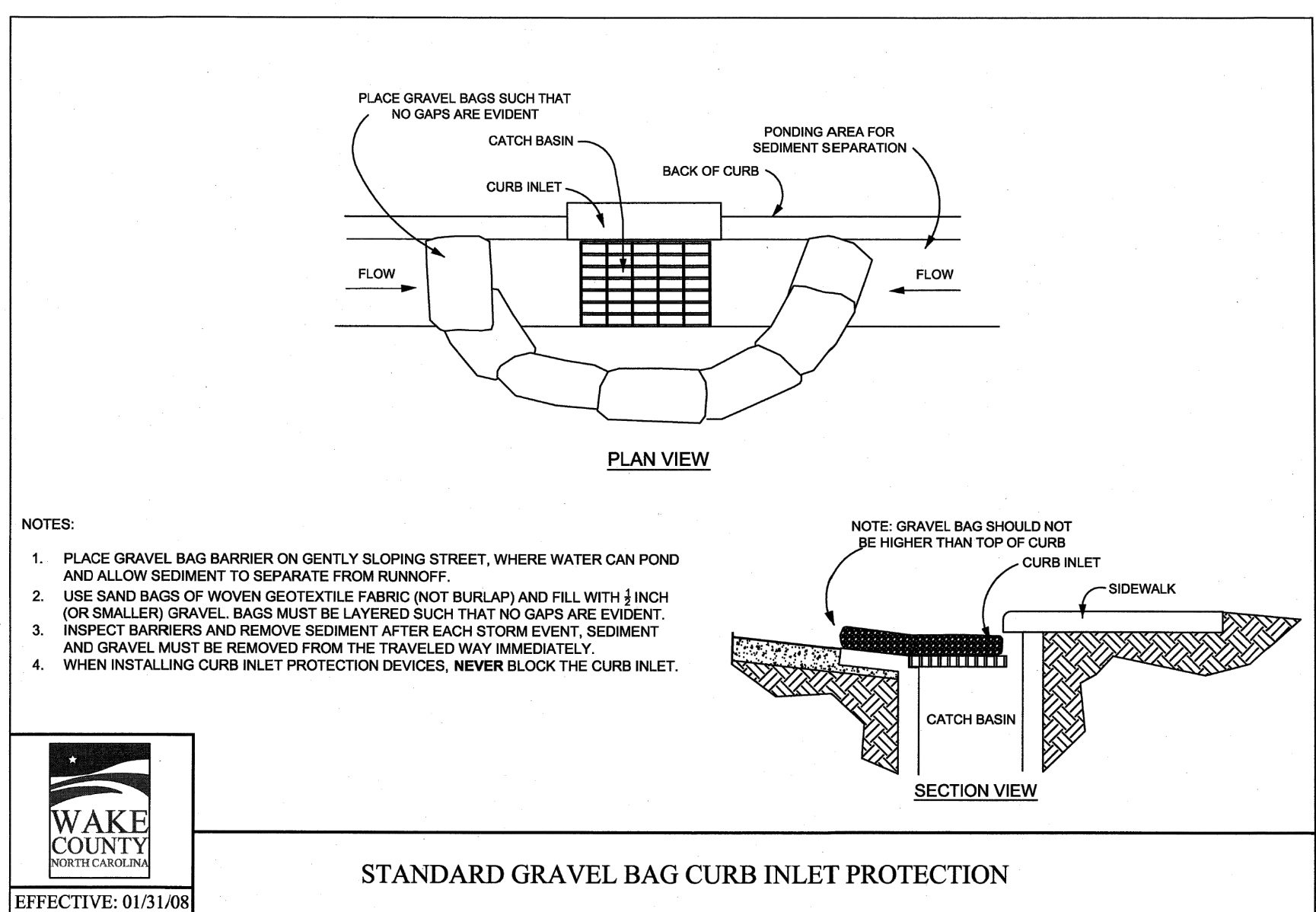
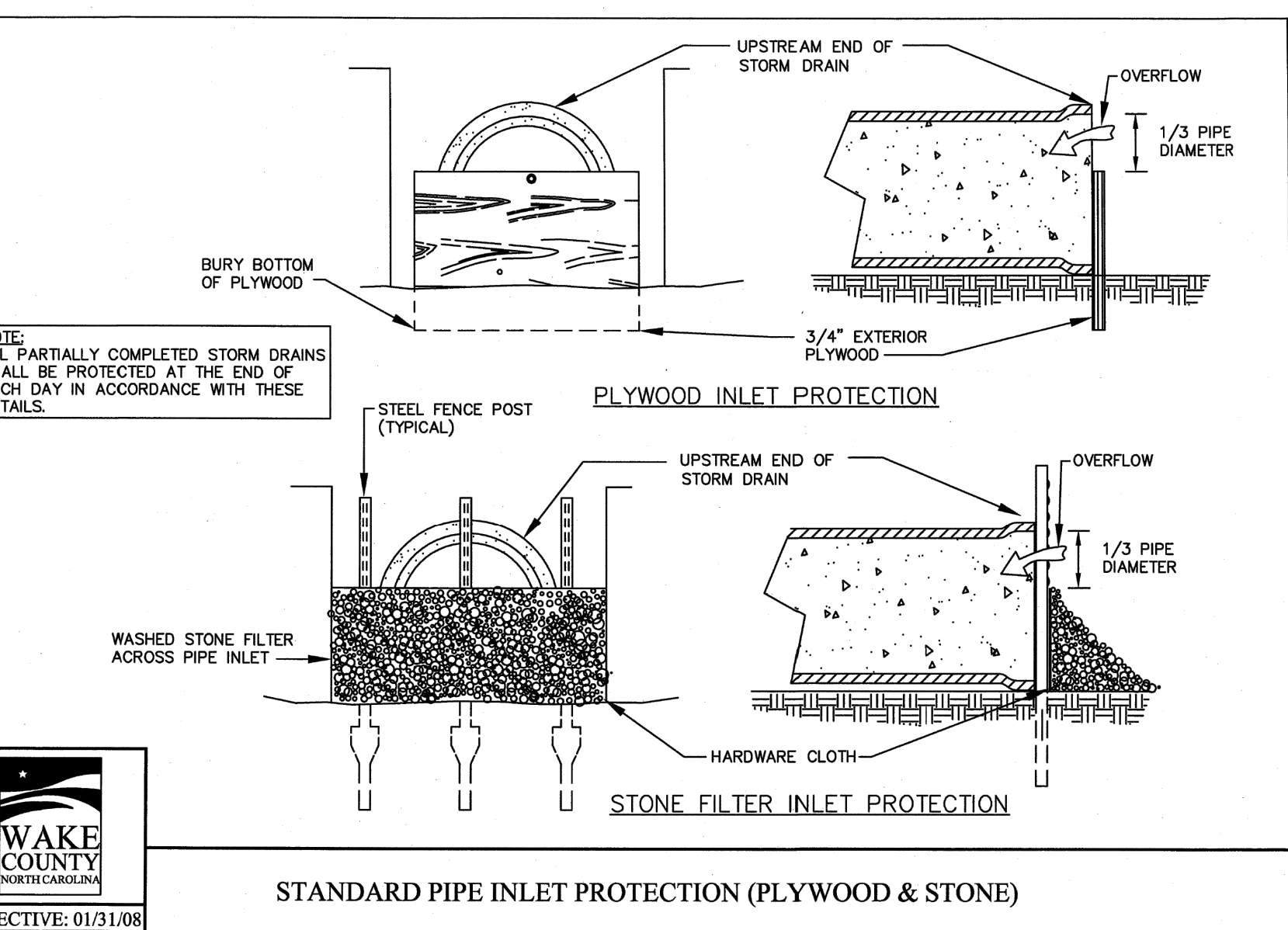
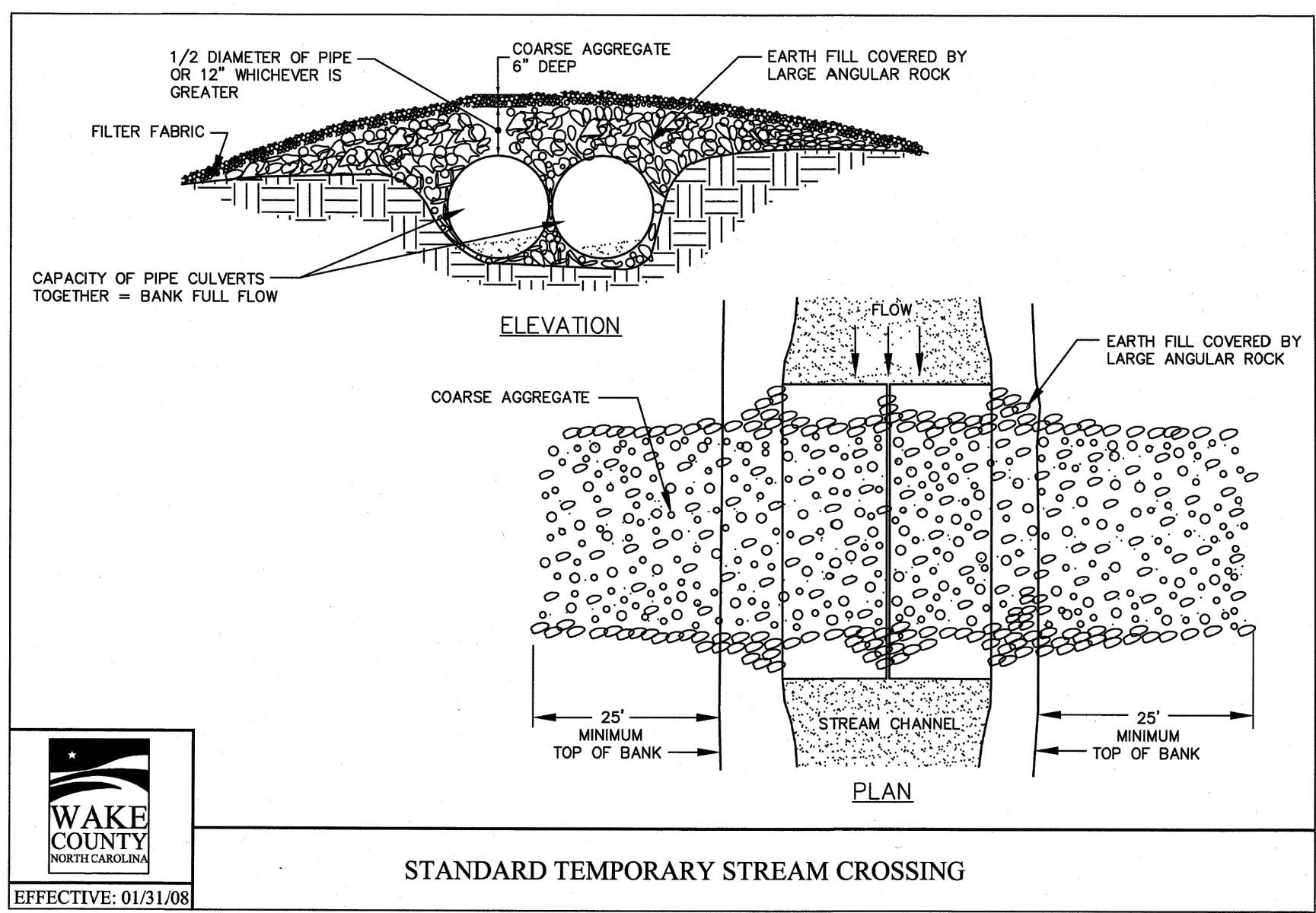
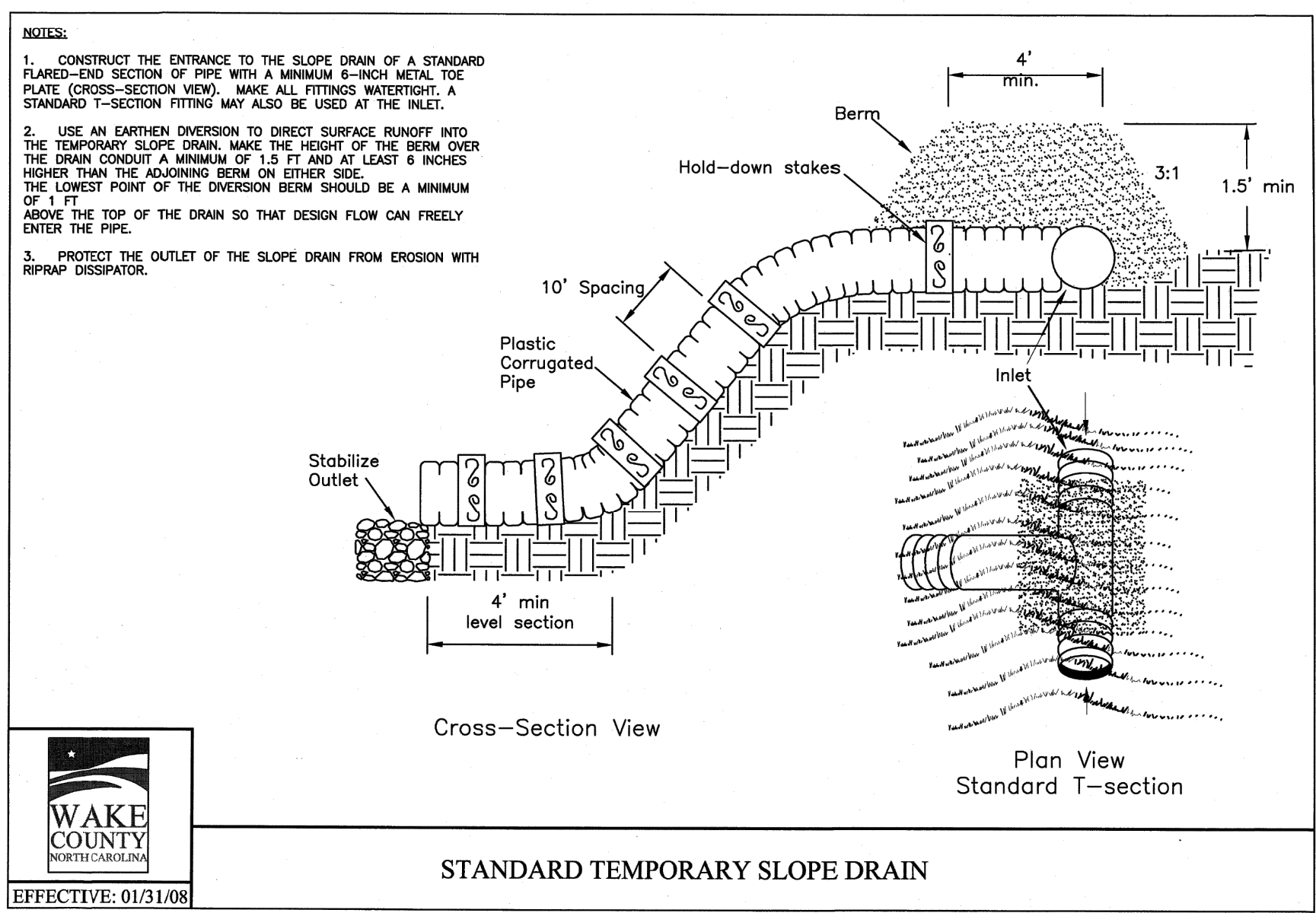
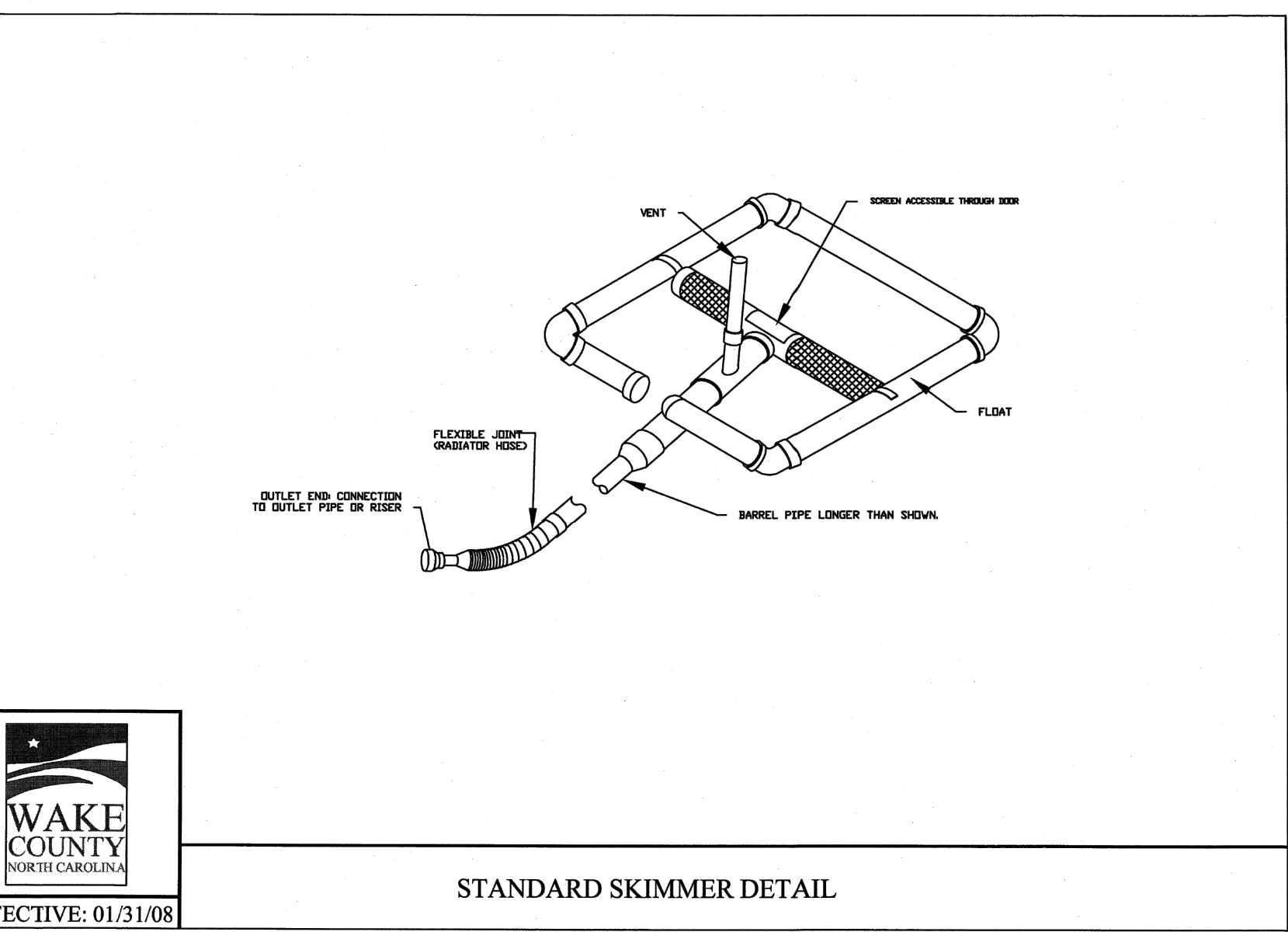
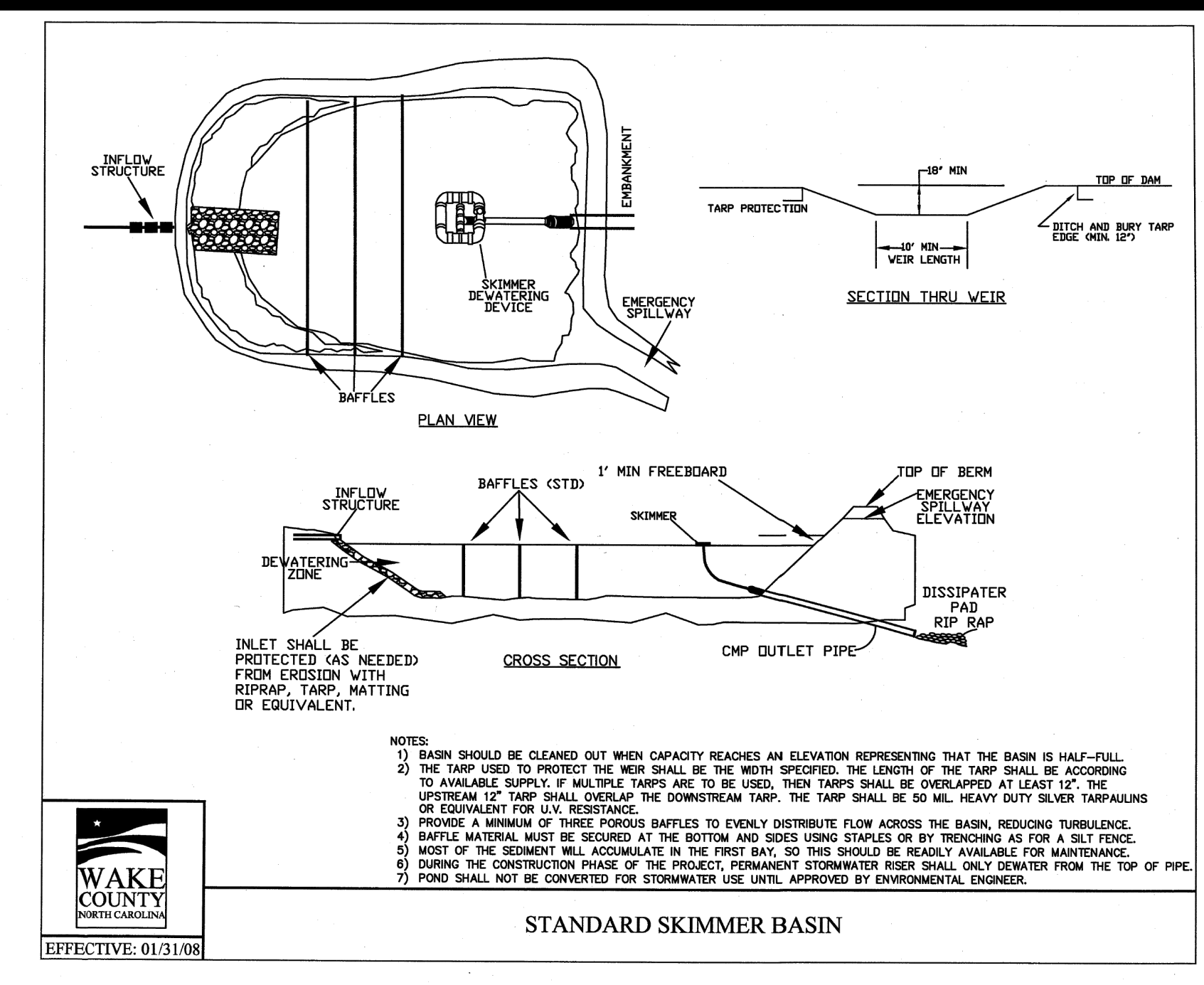
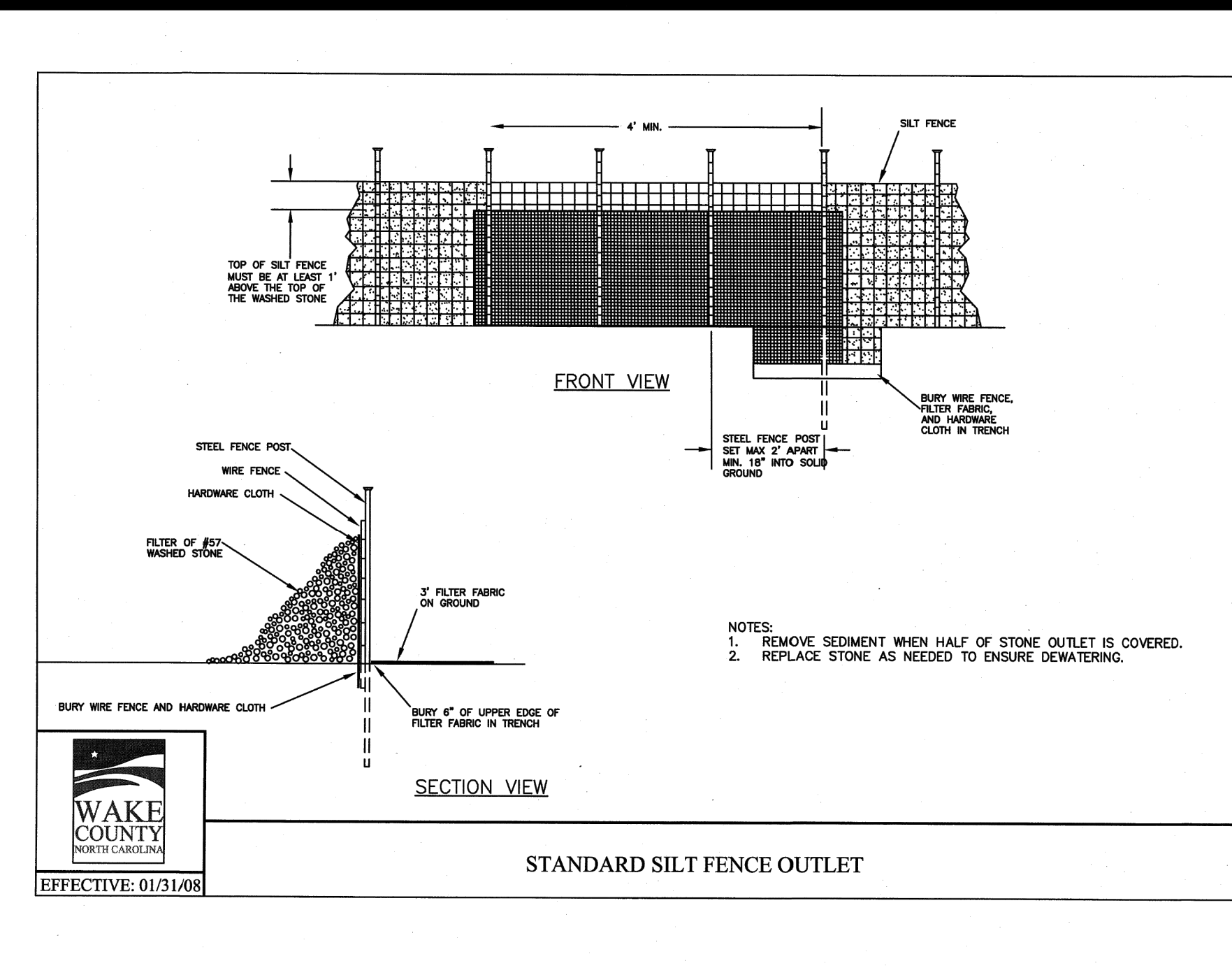
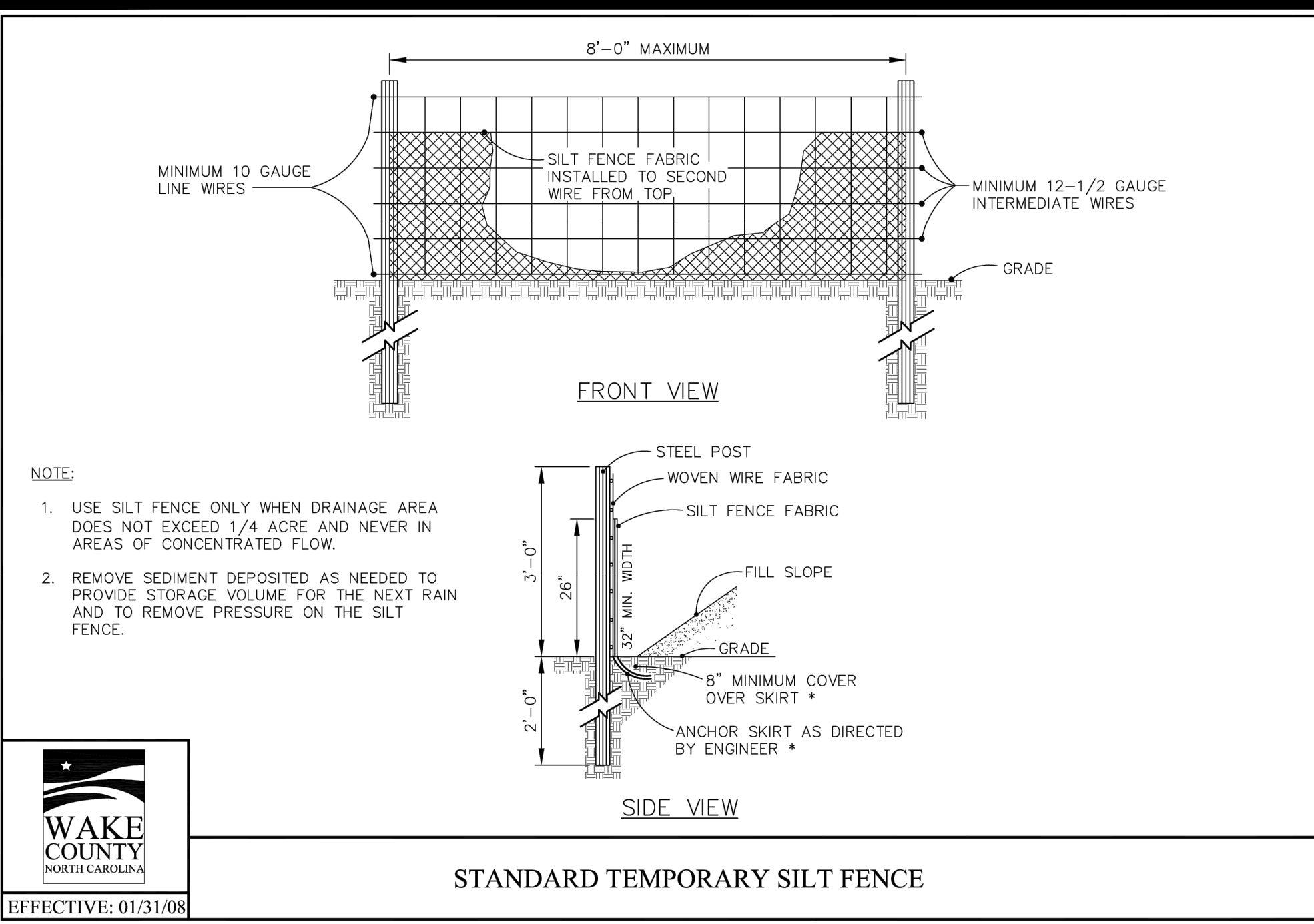
FILE NUMBER:  
 8430-03  
 DATE: 03/04/2024

**811**  
 Know what's below.  
 Call before you dig.

C8-3



G:\NCA\Projects\Lennar\8430-03 - Lennar - School Street - Rolesville\03 - DWG\PlanSheets\On-Site\C2-2 - EROS-DET1.dwg Layout: C8-4 EROSION CONTROL DETAILS (2 OF 2) Plotted: 3/12/2024 9:22:03 AM



02/14/2024	PER TOWN OF ROLESVILLE COMMENT
11/2/2024	PER TOWN OF ROLESVILLE / WC COMMENTS
11/21/2023	PER TOWN OF ROLESVILLE COMMENT
10/02/2023	PER TOWN OF ROLESVILLE COMMENT
08/01/2023	PER TOWN OF ROLESVILLE COMMENT
REV 06/01/2023	INITIAL SUBMITTAL

DESIGNED BY: DF/CD  
DRAWN BY: DF/JWM  
REVIEWED BY: DF

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**PARKER RIDGE**  
82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**EROSION CONTROL DETAILS (2 OF 2)**

**811**  
North Carolina Professional Engineer  
SEAL 028892  
DUBBI FURM  
9/15/2024  
FILE NUMBER: 8430-03  
DATE: 03/04/2024  
C8-4

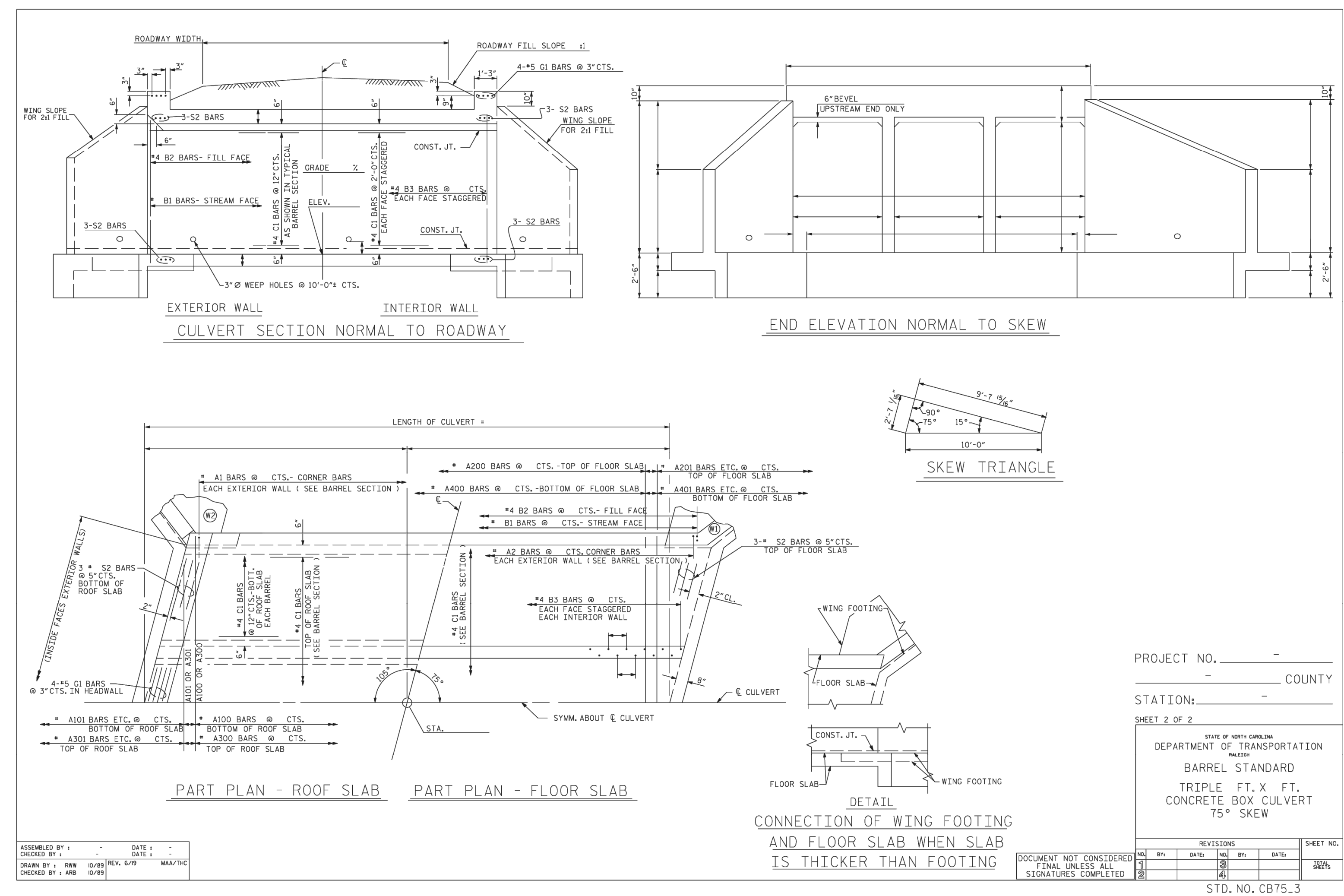
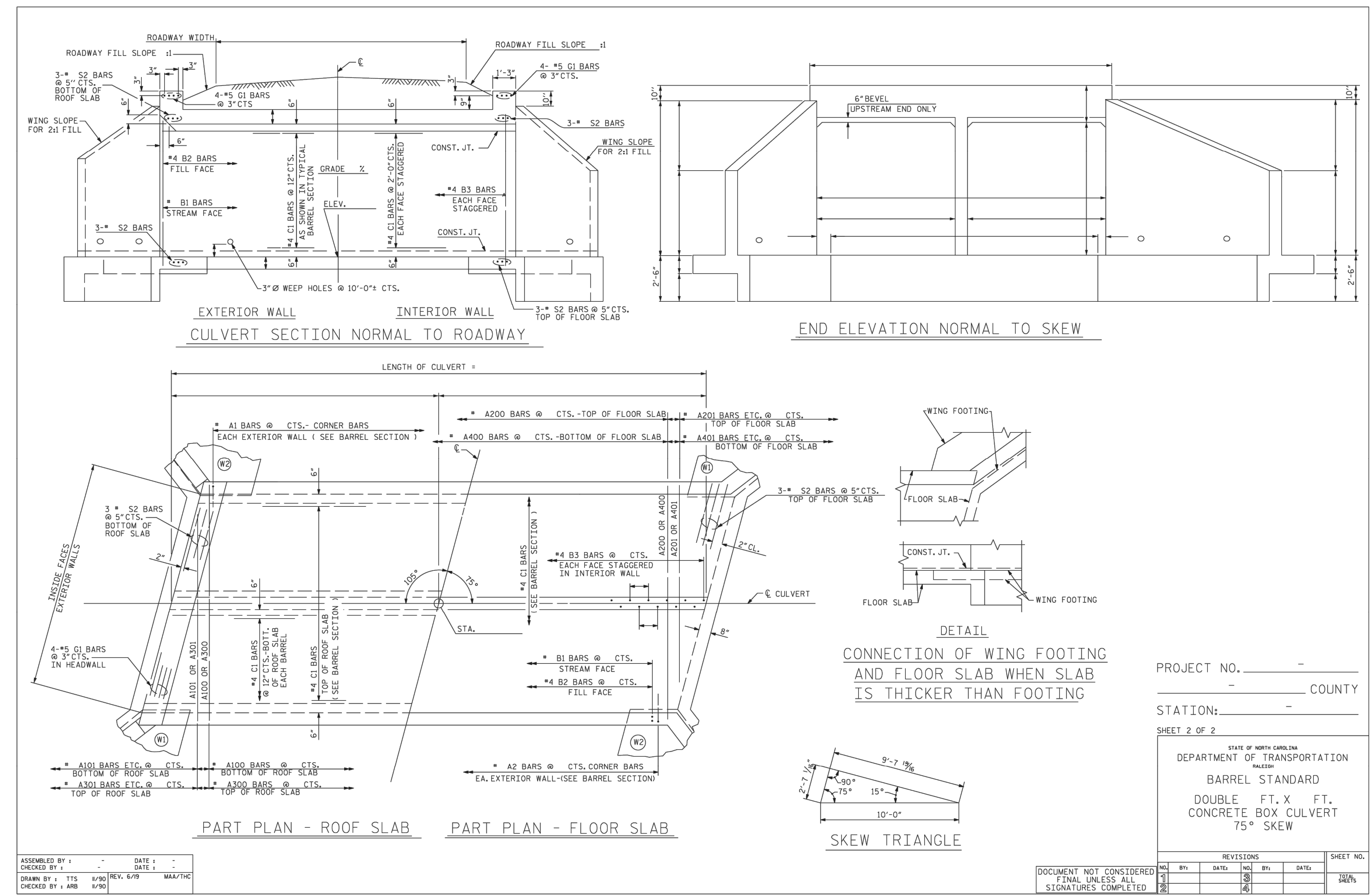












REV	DATE	DESCRIPTION
02/14/2024		PER TOWN OF ROLESVILLE COMMENT
11/2/2024		PER TOWN OF ROLESVILLE / W/C COMMENTS
11/21/2023		PER TOWN OF ROLESVILLE COMMENT
10/02/2023		PER TOWN OF ROLESVILLE COMMENT
08/01/2023		PER TOWN OF ROLESVILLE COMMENT
06/01/2023		PER TOWN OF ROLESVILLE COMMENT
		INITIAL SUBMITTAL

DESIGNED BY: DF/CD  
DRAWN BY: DF/JWM  
REVIEWED BY: DF

**BCE**

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**CORPORAION**  
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**PARKER RIDGE**  
82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**STORM DETAILS (2 OF 2)**

STATE OF NORTH CAROLINA  
PROFESSIONAL ENGINEER  
SEAL 028892  
DEBRA M. FERN  
13/2024  
Dbbi Firm

FILE NUMBER:  
8430-03  
DATE: 03/04/2024



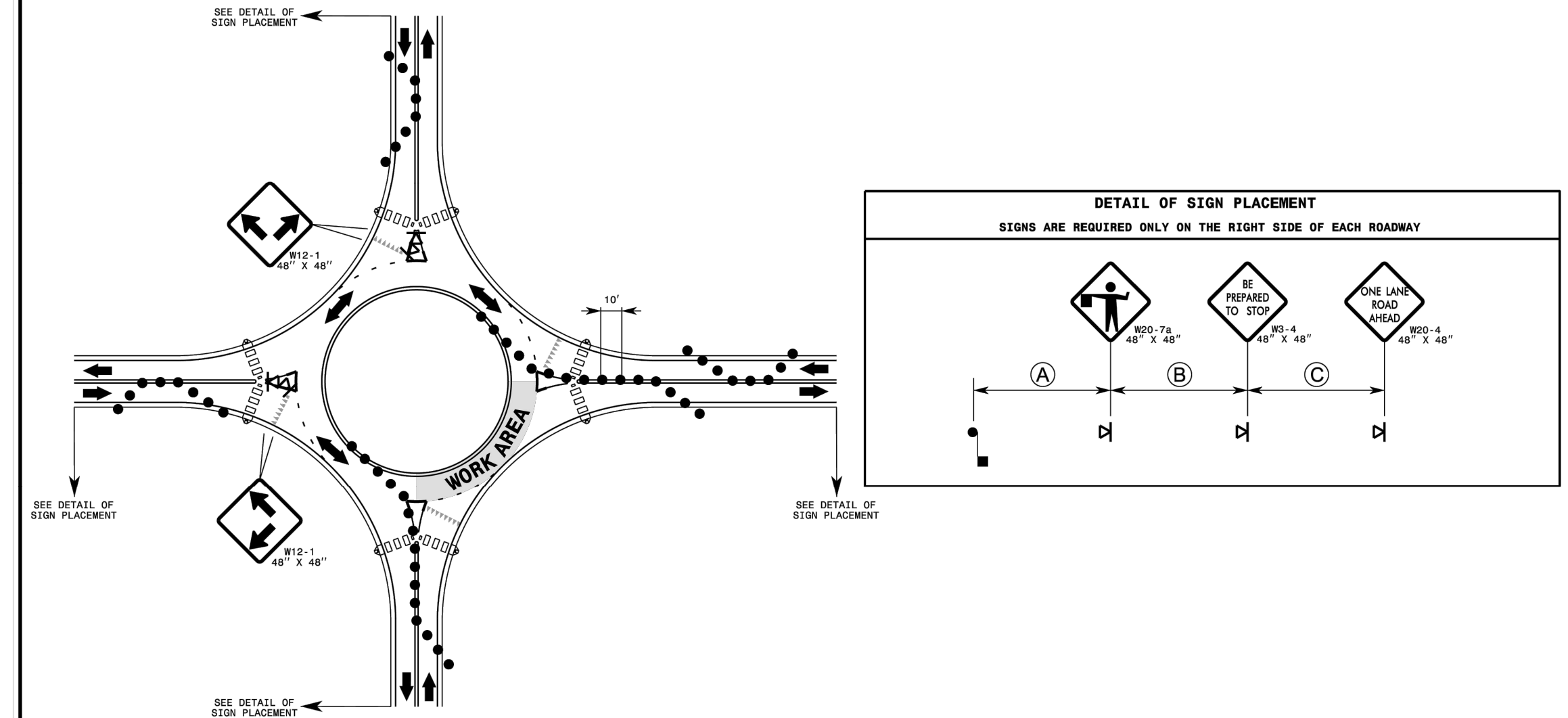
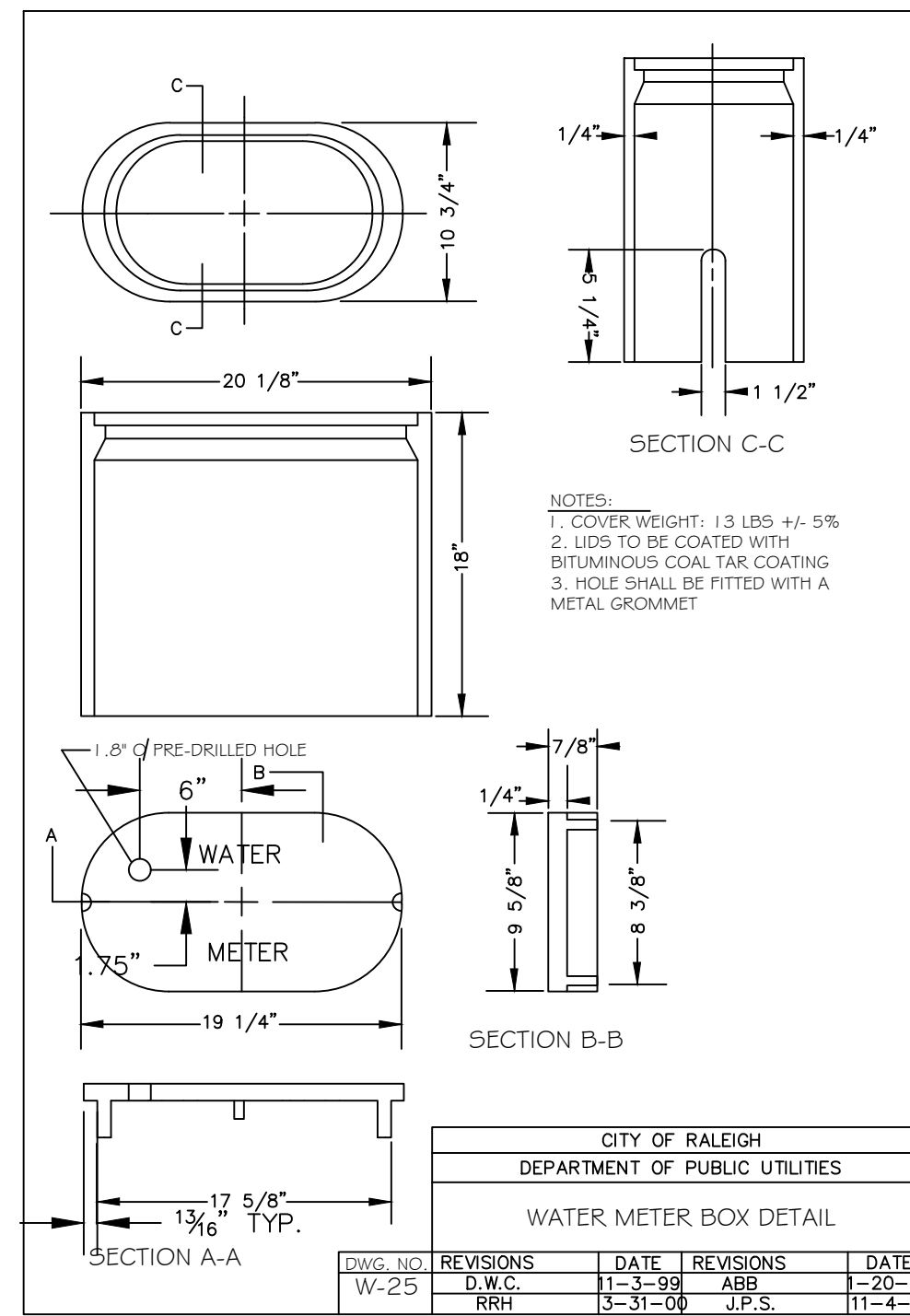
Know what's below.  
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C8-7

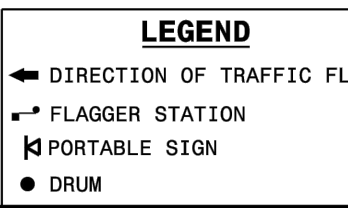








- GENERAL NOTES**
- EACH ROUNDABOUT IS UNIQUE AND THE TRAFFIC CONTROL MUST BE DEVELOPED TO MEET THE SPECIFIC CONDITIONS OF THE LOCATION AND THE WORK OPERATION. A DETOUR COULD POSSIBLY BETTER SERVE TRAFFIC MOVEMENT AND MUST BE CONSIDERED AS AN ALTERNATIVE TO A FLAGGING OPERATION.
  - FLAGGERS SHALL CONTROL TRAFFIC FLOW ON ALL APPROACHES OF THE ONE LANE ROUNDABOUT.
  - A LEAD FLAGGER SHALL BE DESIGNATED AND RADIO COMMUNICATION SHALL BE USED BY THE FLAGGERS.
  - ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.
  - AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED. STREET LIGHTS AND VEHICLE HEADLIGHTS SHALL NOT BE USED TO ILLUMINATE THE FLAGGER STATION.
  - REFER TO RSD 1101.11, SHEET 4, FOR SIGN SPACING.
  - EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO RSD 1101.11, SHEET 2 OF 4).
  - PERIODIC ADJUSTMENTS TO THE CHANNELIZING DEVICES MAY BE ALLOWED IN AN ACTIVE WORK ZONE TO ACCOMMODATE THE TURNING MOVEMENTS OF TRACTOR TRAILER VEHICLES AND OTHER LARGE VEHICLES.
  - FLAGGING OPERATIONS MAY NOT BE NECESSARY WHEN WORKING ON THE SHOULDERS OR IN THE ISLAND OF THE ROUNDABOUT. IF A DRIVING LANE(S) WIDTH OF AT LEAST 10 FEET (OR MORE DEPENDING ON THE DESIGN OF THE VEHICLE) CAN BE MAINTAINED WHILE SHOULDER WORK ON AN APPROACH IS BEING CONDUCTED, THE DRIVING LANE(S) MAY REMAIN OPEN TO TRAFFIC. ROAD WORK AHEAD, SHOULDER WORK AHEAD AND/OR SHOULDER CLOSED SIGNS SHOULD BE USED WHERE APPLICABLE, ALONG THE LANE OR SHOULDER TAPERS AND WORK AREA DELINEATION.
  - COVER EXISTING SIGNS THAT CONFLICT WITH WORK ZONE TRAFFIC PATTERN DURING ACTIVE WORK HOURS. UNCOVER SIGNS WHENEVER WORK IS NOT TAKING PLACE.
  - PROVIDE PEDESTRIAN ACCOMMODATIONS WHEN CLOSING OFF CROSSWALKS.
  - INSTALL SINGLE LANE ROUNDABOUT CLOSURE SO THAT VEHICLES AVOID TRAVERSING CONCRETE/MEDIANS ALONG ROUNDABOUT.
  - THIS DETAIL IS APPLICABLE FOR OPERATIONS IN PLACE FOR 72 HOURS OR LESS. FOR LONGER DURATION OPERATIONS, SIGNING AND PAVEMENT MARKINGS MAY NEED TO BE ALTERED.



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N. C.

ROADWAY STANDARD DRAWING FOR  
**TEMPORARY LANE CLOSURES**  
SINGLE-LANE ROUNDABOUT

SHEET 18 OF 19  
**1101.02**

**Public**  
Water Distribution / Extension System

The City of Raleigh consents to the connection and extension of the City's public water system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh  
Public Utilities Department Permit # WI-4107  
Authorization to Construct: See digital signature

**Public**  
Sewer Collection / Extension System

The City of Raleigh consents to the connection and extension of the City's public sewer system as shown on this plan. The material and construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.

City of Raleigh  
Public Utilities Department Permit # S-5439  
Authorization to Construct: See digital signature

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval \_\_\_\_\_  
Raleigh Water Review Officer \_\_\_\_\_



REV	DATE	BY	CHKD	PER TOWN OF ROLESVILLE COMMENT	INITIAL SUBMITTAL
1	02/14/2024	DF/CD			
2	11/2/2024	DF/JWM			
3	11/21/2023	DF			
4	10/02/2023				
5	08/01/2023				

DESIGNED BY: DF/CD  
DRAWN BY: DF/JWM  
REVIEWED BY: DF

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82 SCHOOL STREET  
ROLESVILLE / NORTH CAROLINA / 27571

**WATER DETAIL (2 OF 2)**

Professional Engineer Seal for Deborah M. Fern, State of North Carolina, License No. 028892, dated 3/13/2024.

FILE NUMBER: 8430-03  
DATE: 03/04/2024  
C8-9