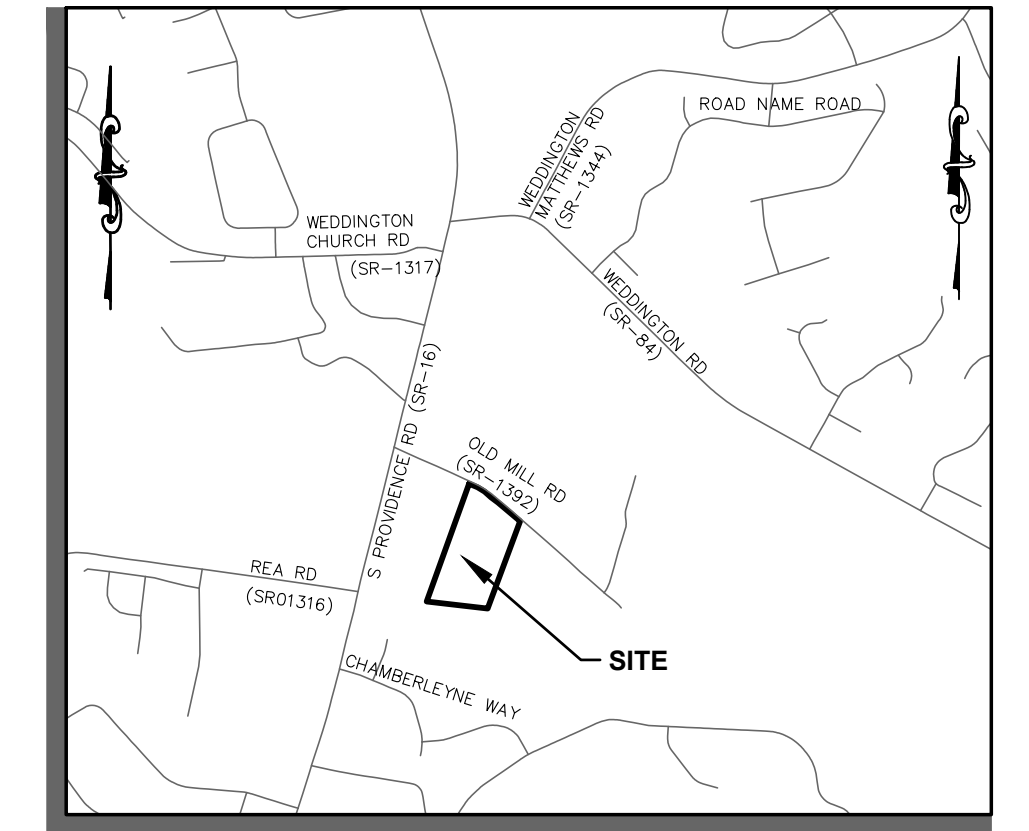


BELLE MAR SINGLE FAMILY RESIDENTIAL

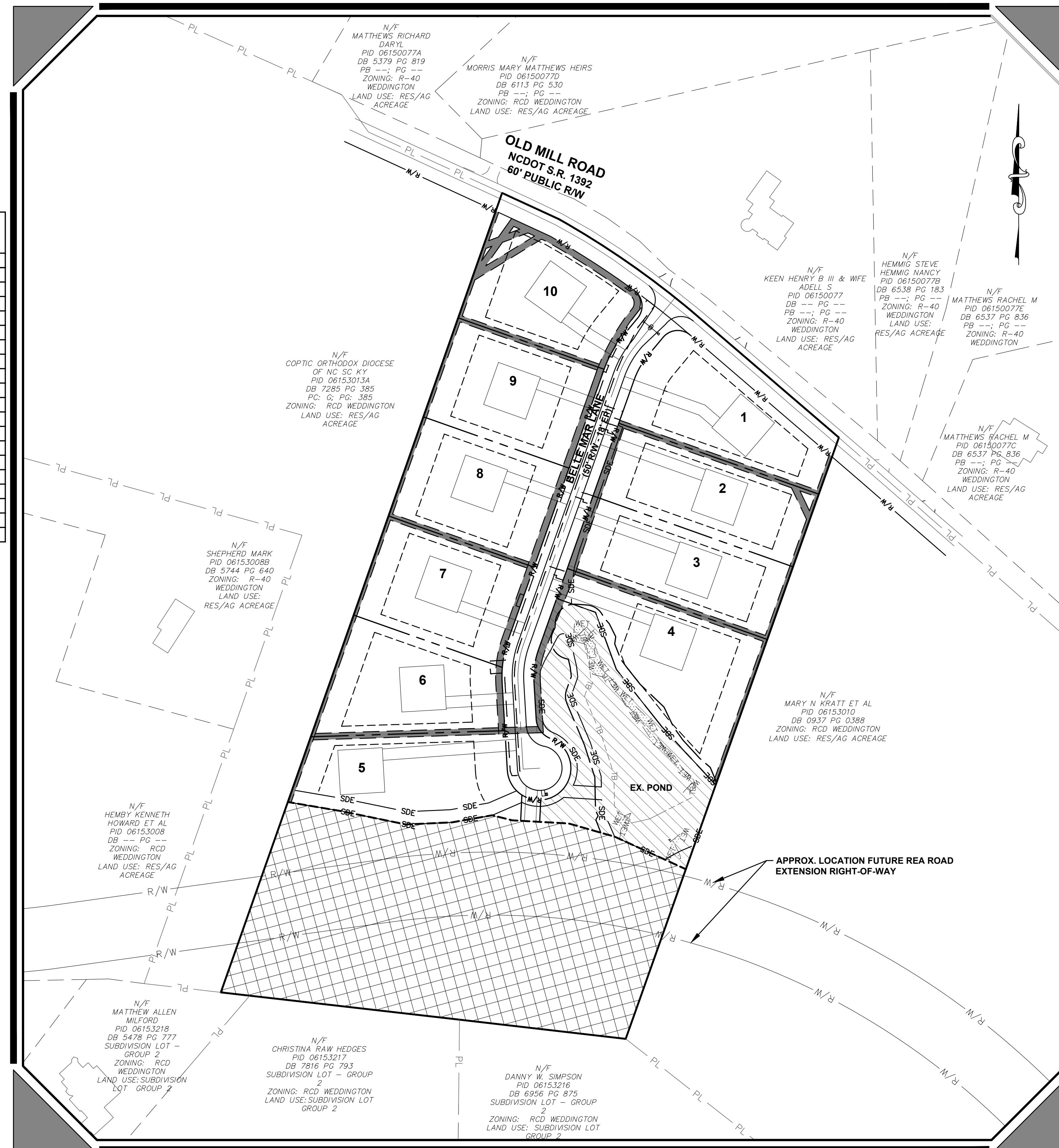
VICINITY MAP

N.T.S.



VICINITY MAP
N.T.S.

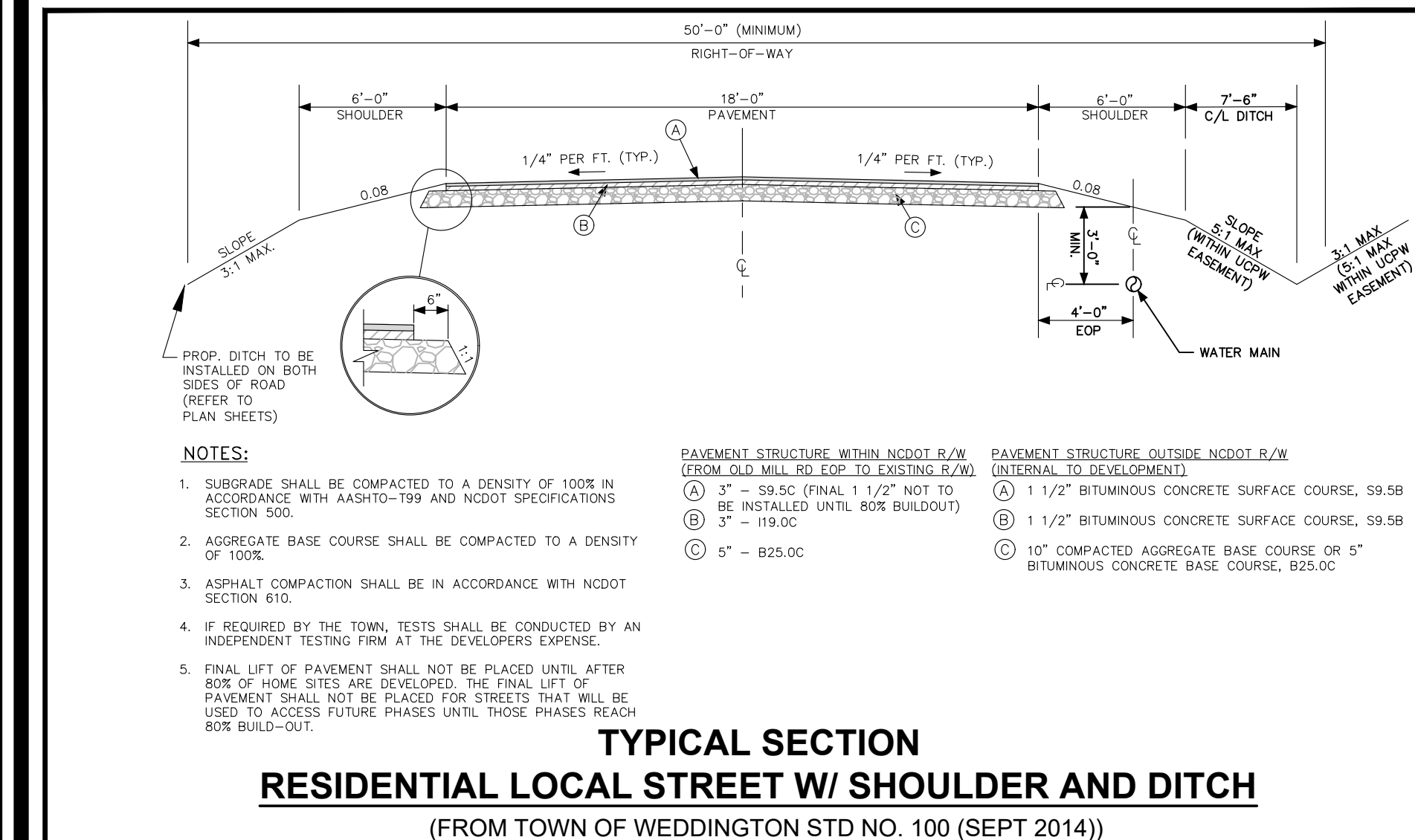
Sheet List Table				
SHEET NO.	SHEET TITLE	ORIGINAL ISSUE DATE	REVISION DATE	REVISION NUMBER
C1.0	COVER SHEET	05/11/2021	01/03/2022	F
C1.1	GENERAL NOTES & LEGENDS	05/11/2021	01/03/2022	F
C1.2	NCDEQ NOTES	05/11/2021	01/03/2022	F
-	SURVEY	07/09/2021		
C2.0	EXISTING CONDITIONS AND DEMOLITION PLAN	05/11/2021	01/03/2022	F
C3.0	SITE PLAN	05/11/2021	01/03/2022	F
C4.0	EROSION CONTROL STAGE 1	05/11/2021	01/03/2022	F
C4.1	EROSION CONTROL STAGE 2	05/11/2021	01/03/2022	F
C5.0	EROSION CONTROL STAGE 3	05/11/2021	01/03/2022	F
C5.1	EROSION CONTROL STAGE 4	05/11/2021	01/03/2022	F
C6.0	GRADING & DRAINAGE PLAN	05/11/2021	01/03/2022	F
C7.0	ROADWAY PLAN & PROFILE FOR BELLE MAR LANE	05/11/2021	01/03/2022	F
C7.1	NC DOT TRAFFIC CONTROL PLAN	05/11/2021	01/03/2022	F
C7.2	SIGHT DISTANCE PLAN & PROFILE BELLE MAR LANE	05/11/2021	01/03/2022	F
C8.0	EROSION CONTROL DETAILS	05/11/2021	01/03/2022	F
C8.1	GENERAL DETAILS	05/11/2021	01/03/2022	F
C8.2	NC DOT DETAILS	05/11/2021	01/03/2022	F
C8.3	BMP DETAILS	05/11/2021	01/03/2022	F
C8.4	GENERAL DETAILS	05/11/2021	01/03/2022	F
C8.5	SEDIMENT BASIN DETAILS	05/11/2021	01/03/2022	F



SITE STATISTICS:	
TAX MAP & PARCEL #:	06153009
DEED BOOK/PAGE:	3498/775
TOTAL SITE AREA:	16.996 ACRES
NC DOT R/W (REA RD EXT):	±4.53 ACRES
NC DOT R/W (OLD MILL RD R/W):	0.45 ACRES
RESIDENTIAL SITE:	±12.02 ACRES
ZONING:	R-CD
WATERSHED:	WEST FORK TWELVE MILE CREEK
RIVER BASIN:	CATAWBA
EXISTING LAND USE:	VACANT
PROPOSED LAND USE:	SINGLE FAMILY RESIDENTIAL
LIMITS OF DISTURBANCE:	3.0 AC
OPEN SPACE REQUIRED:	52,359.12 SF (10% OF RES. SITE AREA)
OPEN SPACE PROVIDED:	64,817.91 SF
REQUIRED MIN. LOT SIZE:	40,000 SF
PROVIDED MINIMUM LOT SIZE:	40,000 SF
MIN. LOT WIDTH:	120'
NUMBER OF LOTS:	10
MINIMUM SETBACKS:	
FRONT:	50'
SIDE:	15'
REAR:	40'
TOTAL LENGTH OF ROADS:	822.65 LF (INCL. C/L OFFSET IN CUL-DE-SAC)
TOTAL PRIVATE R/W AREA:	1.03 ACRES
ACCESS EASEMENT AREA:	0.025 ACRES
BMP PARCEL AREA/OPEN SPACE:	1.488 ACRE
TOTAL LOT AREA:	9.477 ACRES

PROJECT SCOPE INCLUDES DEVELOPMENT OF SITE ENTRANCE, ROADWAY, PERMANENT STORM WATER MEASURES, AND INSTALLATION OF WATER LINE (WITH ASSOCIATED APPURTENANCES). INDIVIDUAL LOTS, TO INCLUDE FINAL DRIVEWAY AND BUILDING PAD LOCATIONS, WILL BE DESIGNED, PERMITTED, AND DEVELOPED BY OTHERS.

BELLE MAR LANE WILL BE A GATED PRIVATE ROAD WITH A PUBLIC RIGHT-OF-WAY TO ALLOW FOR UTILITIES AND ACCESS TO PERMANENT STORM WATER MEASURES.



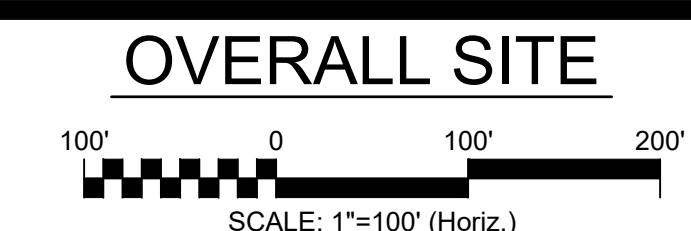
CERTIFICATION OF APPROVAL OF THE CONSTRUCTION PLAN

ON _____ THE WEDDINGTON TOWN ENGINEER APPROVED THE CONSTRUCTION PLAN OF THE BELLE MAR SUBDIVISION. THIS CONSTRUCTION PLAN AND ITS PRELIMINARY PLAT SHALL BECOME NULL AND VOID IF, AFTER TWO YEARS OF APPROVAL OF THE CONSTRUCTION PLAN, CONSTRUCTION OF THE IMPROVEMENTS TO THE LAND HAVE NOT BEEN COMPLETED, OR IF AN APPROVED PERFORMANCE GUARANTEE HAS NOT BEEN EXTENDED WITH THE CONSENT OF THE TOWN COUNCIL, IN ACCORDANCE WITH SECTION 46-44 OF THE SUBDIVISION ORDINANCE.

WEDDINGTON TOWN ENGINEER

OWNER / DEVELOPER

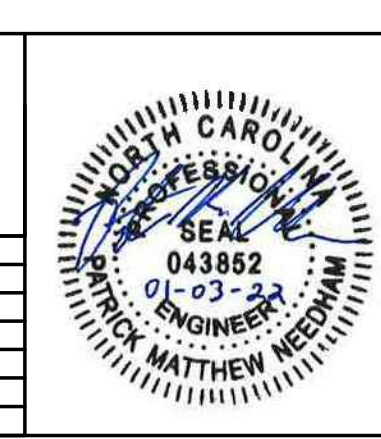
NAME: DEVELOPMENT SOLUTIONS GROUP, LLC
 ADDRESS: 11121 CARMEL COMMONS BLVD., STE 360 CHARLOTTE, NC 28226
 CONTACT: KENT OLSON
 PHONE NUMBER: 704-543-0760
 EMAIL: KENT@OLSONDEVELOPMENT.COM



TOWN OF WEDDINGTON, UNION CO., NC
 MAY 2021

PRELIMINARY DRAWINGS
NOT FOR CONSTRUCTION
05/11/2021

REV. NO.	DESCRIPTIONS	DATE
F	ADDRESSED COMMENTS FROM UICPV	01/03/2022
E	ADDRESSED COMMENTS FROM UICPV	11/19/2021
D	ADDRESSED COMMENTS FROM UICPV	10/14/2021
C	ADDRESSED COMMENTS FROM NCDEQ POST-CONSTRUCTION STORMWATER	10/11/2021
B	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDEQ	09/16/2021
A	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NC DOT	09/04/2021



CIVIL ENGINEER

MCKIM & CREED

8020 Tower Point Drive
 Charlotte, North Carolina 28227
 Phone: (704) 841-2588, Fax: (704) 841-2567
 NC License# F-1222
 www.mckimcreed.com



BELLE MAR RESIDENTIAL
07780-0013
0 OLD MILL ROAD, WEDDINGTON, NC

DEMOLITION/EXISTING CONDITIONS NOTES:

- 1. PROJECT SCOPE INCLUDES DEVELOPMENT OF SITE ENTRANCE, ROADWAY, PERMANENT STORM WATER MEASURES, AND WATER LINE (WITH ASSOCIATED APPURTENANCES)...

GRADING NOTES:

- 1. COORDINATE ALL CURB AND STREET GRADES IN INTERSECTION WITH THE INSPECTOR.
2. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES...

CONSTRUCTION SEQUENCE:

- PRIOR TO CONSTRUCTION
1. OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE TOWN OF WEDDINGTON. NO WORK SHALL BE PERFORMED IN ANY WETLANDS/STREAMSPONS WITHOUT PROPER APPROVAL...

MATERIAL/STREET/SIDEWALK NOTES:

- 1. STREET CONSTRUCTION MATERIALS AND CONSTRUCTION STANDARDS SHALL MEET N. C. DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES...

EROSION CONTROL NOTES:

- 1. ANY GRADING BEYOND THE DENUDE LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE NCDEQ PERMIT AND MAY BE SUBJECT TO A FINE. LIMITS OF CONSTRUCTION = +/-3.0 ACRES...

EROSION CONTROL MAINTENANCE PLAN:

- 1. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE (1.0) INCH.

STORM DRAINAGE:

- 1. ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE NCDOT OR CMLDS STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED IN THIS MANUAL.

SYMBOLS LEGEND table with columns: FEATURE, EXISTING, PROPOSED. Includes symbols for IRON PIPE FOUND, TELEPHONE POLE, WATER METER, etc.

GENERAL LEGEND table with columns: FEATURE, EXISTING, PROPOSED. Includes symbols for PARCEL LINE, PROJECT BOUNDARY, EASEMENT, etc.

EROSION CONTROL LEGEND table with columns: FEATURE, PROPOSED. Includes symbols for SILT FENCE, TREE PROTECTION FENCING, etc.

STAKING AND MATERIALS PLAN NOTES:

- 1. ALL DIMENSIONS ARE AT 90 DEGREES UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL ESTABLISH AND VERIFY POINT OF BEGINNING (P.O.B.) AND STAKE SITE AS INDICATED ON CONSTRUCTION DOCUMENTS...

Revision table with columns: REVNO, DESCRIPTIONS, DATE. Shows revision history for the drawing.

Professional Engineer seal for Matthew H. Hines, State of North Carolina, License No. 01-03-22.

SG Development Solutions Group logo and contact information: 8020 Tower Point Drive, Charlotte, NC 28227.

BELLE MAR RESIDENTIAL 0 OLD MILL ROAD TOWN OF WEDDINGTON, NC logo and title.

811 logo with slogan 'Know what's below. Call before you dig.' and drawing information including scale (C1.1) and status (PRELIMINARY DRAWING).

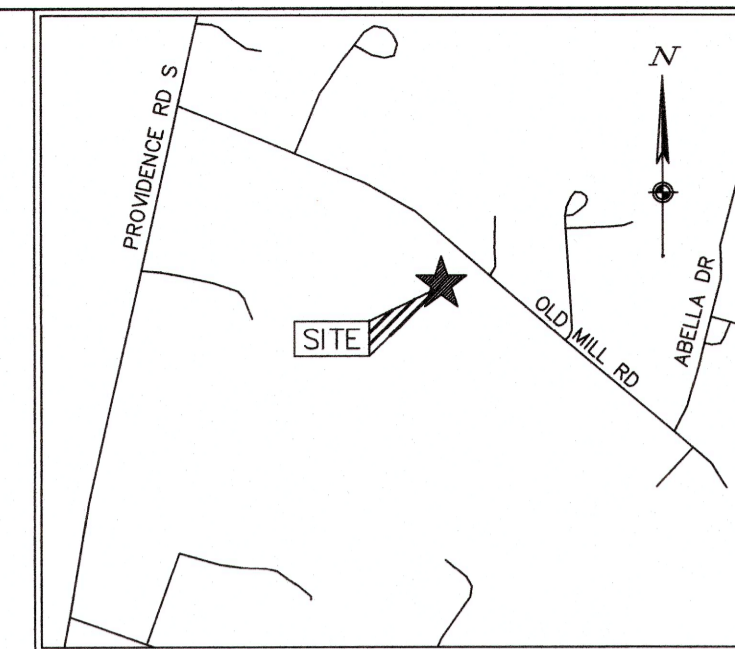


06153013A
N/F
COPTIC ORTHODOX DIOCESE OF NC SC KY
DB 7285 PG 385
PG 9 PG 394

ARC=258.65
R=1384.10
D=10°42'23"
CH BRG=S 55°11'34" E
CH LENGTH=258.25

06153009
N/F
HOOD REAL ESTATE LLC
DB 3498 PG 775
16.996 ACRES

- LEGEND**
- ⊙ ANGLE IRON
 - ⊙ AXLE
 - ⊙ IRON PIPE FND
 - ⊙ IRON ROD FND
 - ⊙ IRON ROD SET
 - ⊙ NAIL FND
 - ⊙ CONCRETE MON FND
 - ⊙ COMPUTED POINT
 - ⊙ REBAR AND CAP
 - ⊙ RIGHT OF WAY MON
 - ⊙ MAILBOX
 - ⊙ FLAGPOLE
 - ⊙ SIGN
 - ⊙ WELL
 - ⊙ CATCH BASIN
 - ⊙ DROP INLET
 - ⊙ STORM DRAIN MANHOLE
 - ⊙ YARD INLET
 - ⊙ CLEAN OUT
 - ⊙ SANITARY SEWER MANHOLE
 - ⊙ SEPTIC TANK
 - ⊙ WATER VALVE
 - ⊙ FIRE HYDRANT
 - ⊙ ELECTRIC BOX
 - ⊙ ELECTRIC METER
 - ⊙ GUY WIRE
 - ⊙ GUY POLE
 - ⊙ LIGHT POLE
 - ⊙ POWER AND LIGHT POLE
 - ⊙ POWER POLE
 - ⊙ ELECTRIC TRANSFORMER
 - ⊙ GAS METER
 - ⊙ GAS VALVE
 - ⊙ GAS MARKER
 - ⊙ TELEPHONE PEDESTAL
 - ⊙ TV PEDESTAL
 - ⊙ BUSH
 - ⊙ PINE TREE
 - ⊙ DECIDUOUS TREE



VICINITY MAP
NOT TO SCALE

- ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
- BEARINGS BASED ON NORTH CAROLINA STATE PLANE COORDINATES NAD83 (2011), VERTICAL ELEVATIONS ARE BASED ON NAVD88.
- SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP, TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
- UNDERGROUND UTILITIES ARE SHOWN ONLY WHERE ABOVEGROUND SERVICES WERE VISIBLE.
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.
- THE EXISTENCE OR NONEXISTENCE OF WETLANDS ON SUBJECT PROPERTY HAS NOT BEEN DETERMINED BY THIS SURVEY.
- SUBJECT TO ALL EASEMENTS, RIGHT OF WAYS, AND OR ENCUMBRANCES THAT MAY AFFECT THIS PROPERTY.

SURVEYORS CERTIFICATE

I, W. ANDREW EADES, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS GROUND SURVEY WAS PERFORMED 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE ACCURACY OF CLASS A AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS B STANDARD, AND THAT THE ORIGINAL DATA WAS OBTAINED ON AUGUST 8, 2020; THAT THE SURVEY WAS COMPLETED ON SEPTEMBER 9, 2020; THAT CONTOURS SHOWN MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NAD83 (2011) AND REALIZATION AND ELEVATIONS ARE BASED ON NAVD88.

WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 9TH DAY OF JULY, 2021.

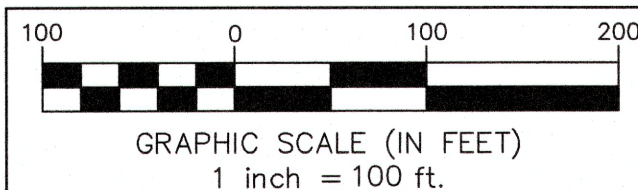
W. Andrew Eades 7-9-21
W. ANDREW EADES, PLS L-3413 DATE: 07-09-21



06153218
N/F
MATTHEW ALLEN MILFORD
DB 5478 PG 777

06153217
N/F
CHRISTINA RAW HEDGES
DB 7816 PG 783

06153216
N/F
DANNY W. SIMPSON
DB 6956 PG 675



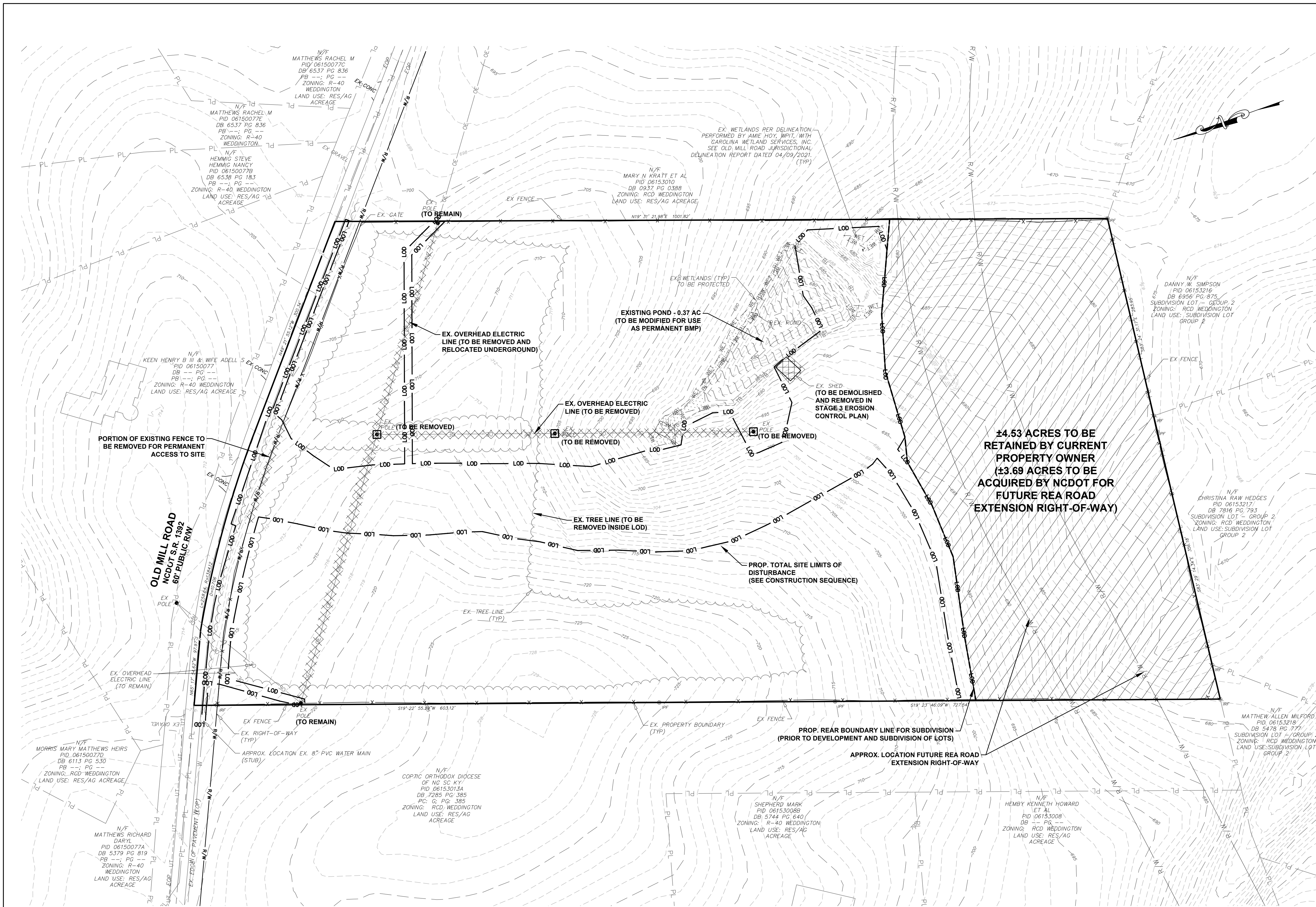
REVISIONS		
BY	DATE	DESCRIPTION

EXISTING CONDITIONS SURVEY

BELLE MAR
CITY OF WEDDINGTON UNION COUNTY, NC

SCALE: 1" = 100' DATE: JULY 9, 2021

PLS	WAE	 8020 TOWER POINT DRIVE CHARLOTTE, NORTH CAROLINA 28227 TELEPHONE: (704) 841-2588 FAX: (704) 841-2567 NORTH CAROLINA FIRM LICENSE NUMBER: F-1222	JOB NO. 077800007 SHEET NO. 1 OF 1
TECH	ACC		
CHKD	WEH		

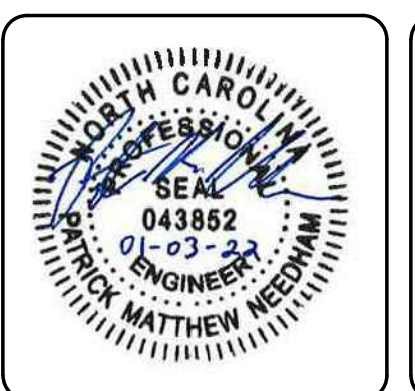
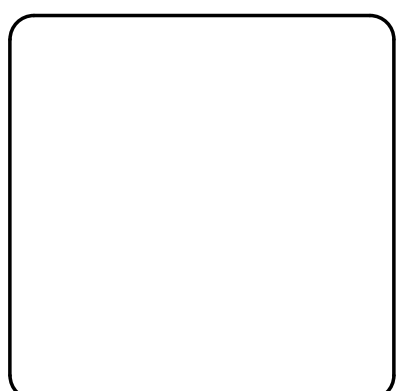


- NOTES:**
1. PROJECT SCOPE INCLUDES DEVELOPMENT OF SITE ENTRANCE, ROADWAY, PERMANENT STORM WATER MEASURES, AND WATER LINE (WITH ASSOCIATED APPURTENANCES). THE LIMITS OF DISTURBANCE SHALL BE LIMITED TO WHAT IS NEEDED TO INSTALL THE ABOVE MENTIONED COMPONENTS. INDIVIDUAL LOTS, TO INCLUDE FINAL DRIVEWAY AND BUILDING PAD LOCATIONS, WILL BE DESIGNED, PERMITTED, AND DEVELOPED BY OTHERS.
 2. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER FOR ANY IMPACTS INSIDE UTILITY EASEMENTS OR TO UTILITY OWNED INFRASTRUCTURE.
 3. CONTRACTOR SHALL ENSURE ADJACENT PARCELS WILL HAVE NO INTERRUPTION TO UTILITY PROVIDED SERVICES AS A RESULT OF THIS PROJECT.
 4. CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT JURISDICTIONAL FEATURES TO THE GREATEST EXTENT POSSIBLE. NO IMPACTS TO JURISDICTIONAL FEATURES OUTSIDE THE LIMITS OF THE 401/404 PERMIT ARE AUTHORIZED.

**14.53 ACRES TO BE
RETAINED BY CURRENT
PROPERTY OWNER
(13.69 ACRES TO BE
ACQUIRED BY NCDOT FOR
FUTURE REA ROAD
EXTENSION RIGHT-OF-WAY)**



REV. NO.	DESCRIPTIONS	DATE
F	ADDRESSED COMMENTS FROM UCPW	01/03/2022
E	ADDRESSED COMMENTS FROM UCPW	11/19/2021
D	ADDRESSED COMMENTS FROM UCPW	10/14/2021
C	ADDRESSED COMMENTS FROM NCDOT POST-CONSTRUCTION STORMWATER	10/11/2021
B	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	09/10/2021
A	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	08/04/2021

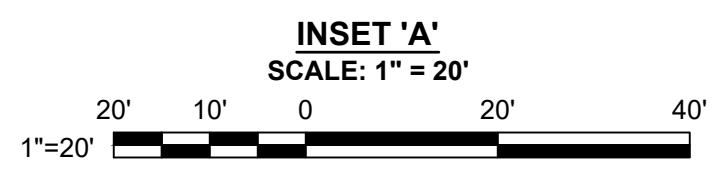
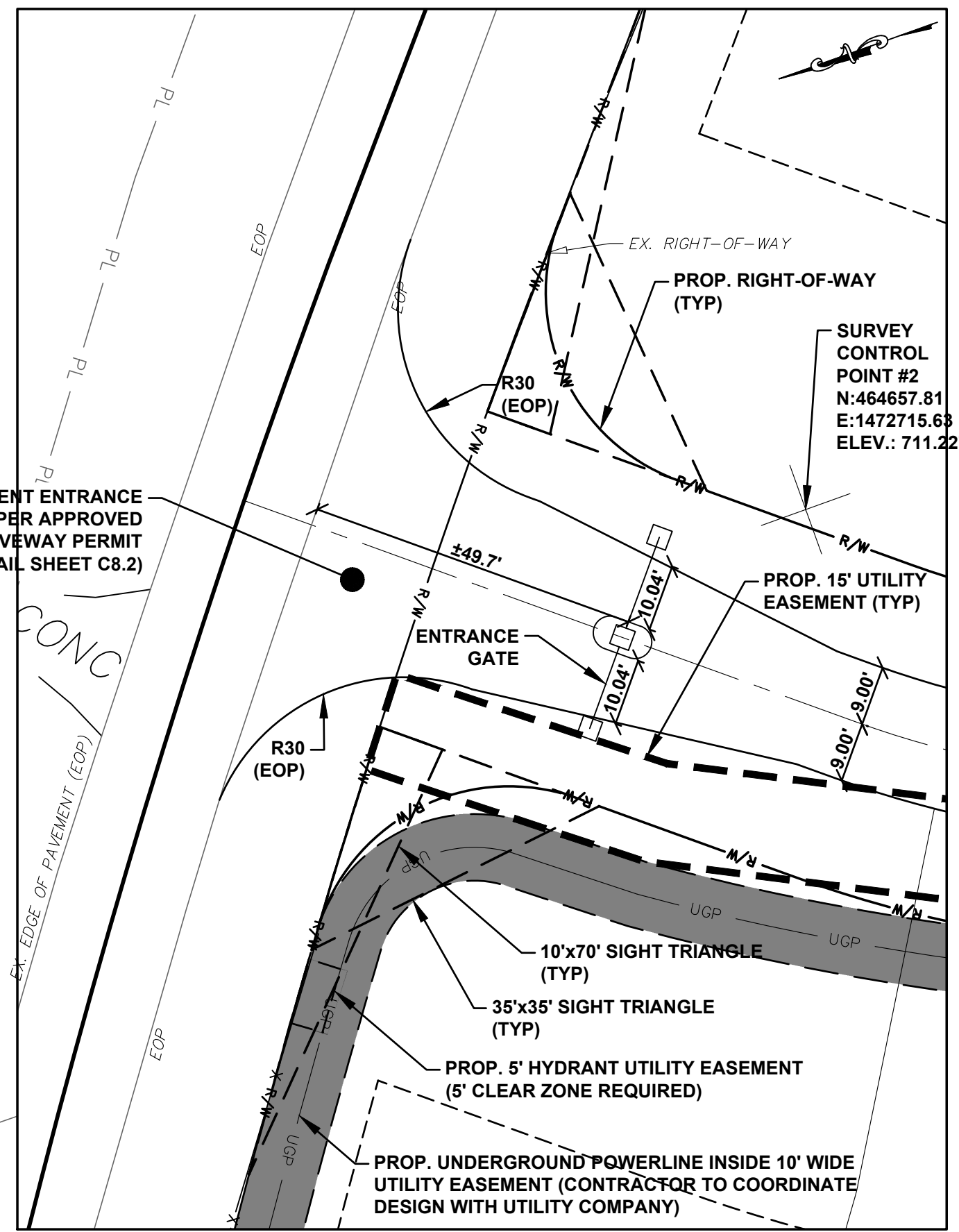
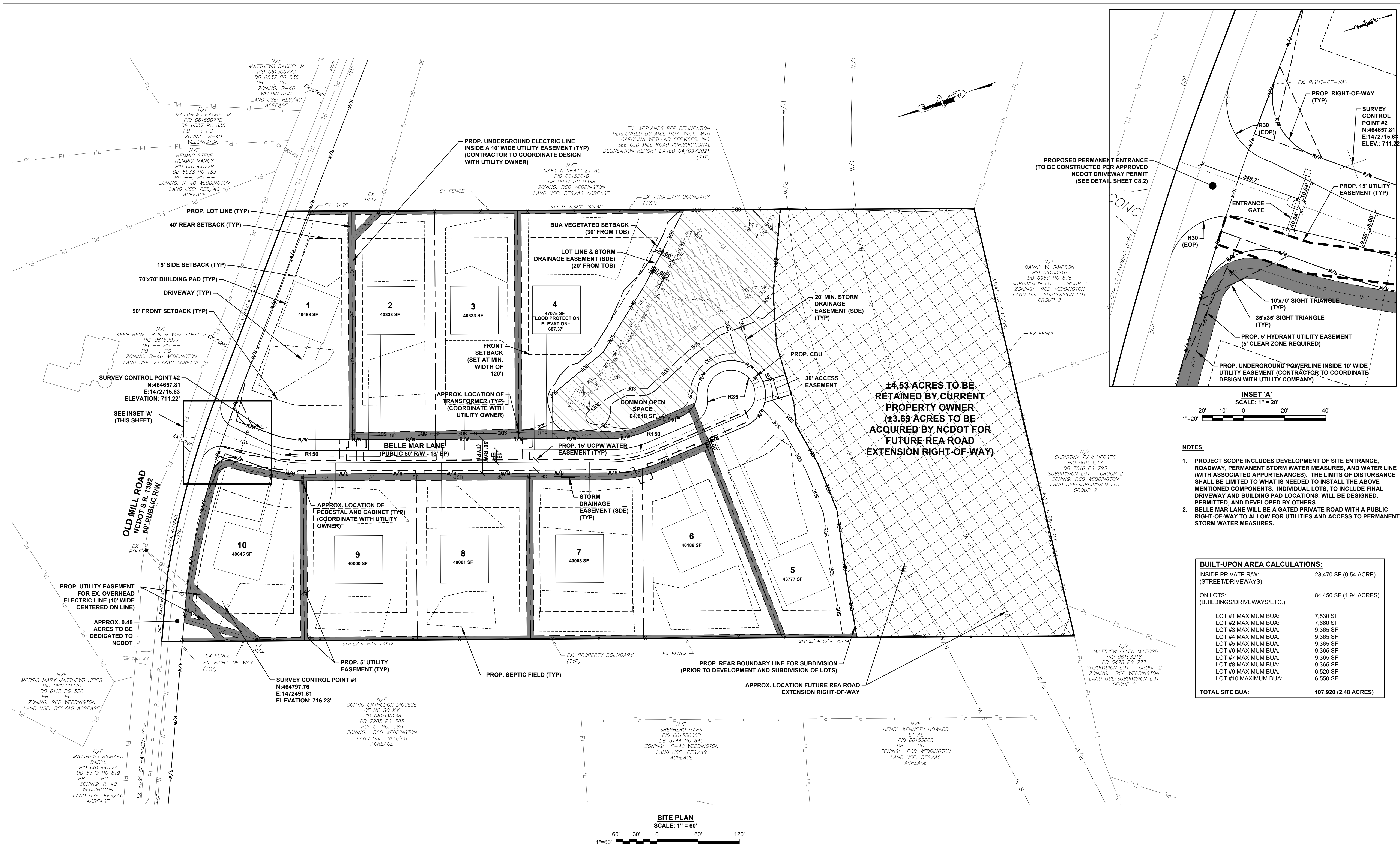


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 NC License# F-1222
 www.mckimcreed.com

DSG
 Development
 Solutions
 Group

**BELLE MAR RESIDENTIAL
 0 OLD MILL ROAD
 TOWN OF WEDDINGTON, NC**
 EXISTING CONDITIONS AND
 DEMOLITION PLAN

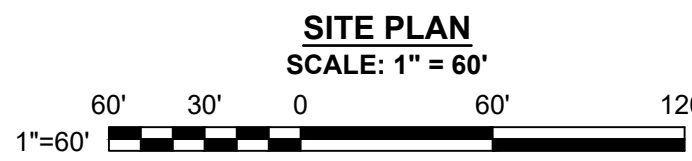
DATE: MAY 2021	SCALE: HORIZONTAL: 1" = 60'	C2.0 DRAWING NUMBER
MCE PROJ. # 07780-0613	VERTICAL: N/A	
DRAWN: JPM	STATUS: PRELIMINARY DRAWING NOT FOR CONSTRUCTION	REVISION: F
DESIGNED: JPM		
CHECKED: PMN		
PROJ. MGR: PMN		



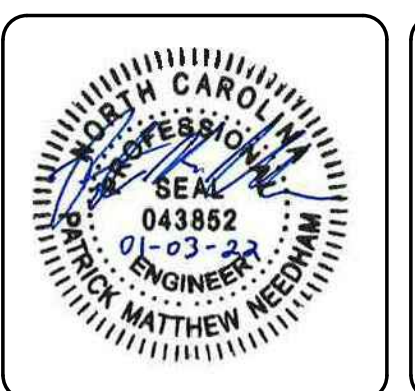
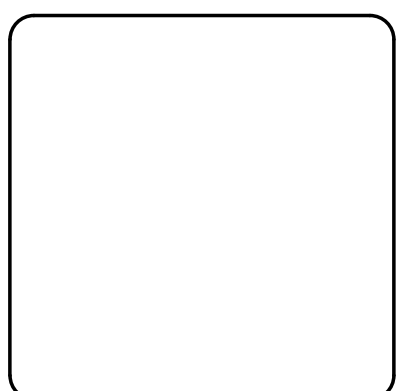
- NOTES:**
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 - BELLE MAR LANE WILL BE A GATED PRIVATE ROAD WITH A PUBLIC RIGHT-OF-WAY TO ALLOW FOR UTILITIES AND ACCESS TO PERMANENT STORM WATER MEASURES.

BUILT-UPON AREA CALCULATIONS:

INSIDE PRIVATE R/W: (STREET/DRIVEWAYS)	23,470 SF (0.54 ACRE)
ON LOTS: (BUILDINGS/DRIVEWAYS/ETC.)	84,450 SF (1.94 ACRES)
LOT #1 MAXIMUM BUA:	7,530 SF
LOT #2 MAXIMUM BUA:	7,660 SF
LOT #3 MAXIMUM BUA:	9,365 SF
LOT #4 MAXIMUM BUA:	9,365 SF
LOT #5 MAXIMUM BUA:	9,365 SF
LOT #6 MAXIMUM BUA:	9,365 SF
LOT #7 MAXIMUM BUA:	9,365 SF
LOT #8 MAXIMUM BUA:	9,365 SF
LOT #9 MAXIMUM BUA:	6,520 SF
LOT #10 MAXIMUM BUA:	6,550 SF
TOTAL SITE BUA:	107,920 (2.48 ACRES)



REV.	DESCRIPTION	DATE
F	ADDRESSED COMMENTS FROM UCPW	01/03/2022
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A	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	08/04/2021



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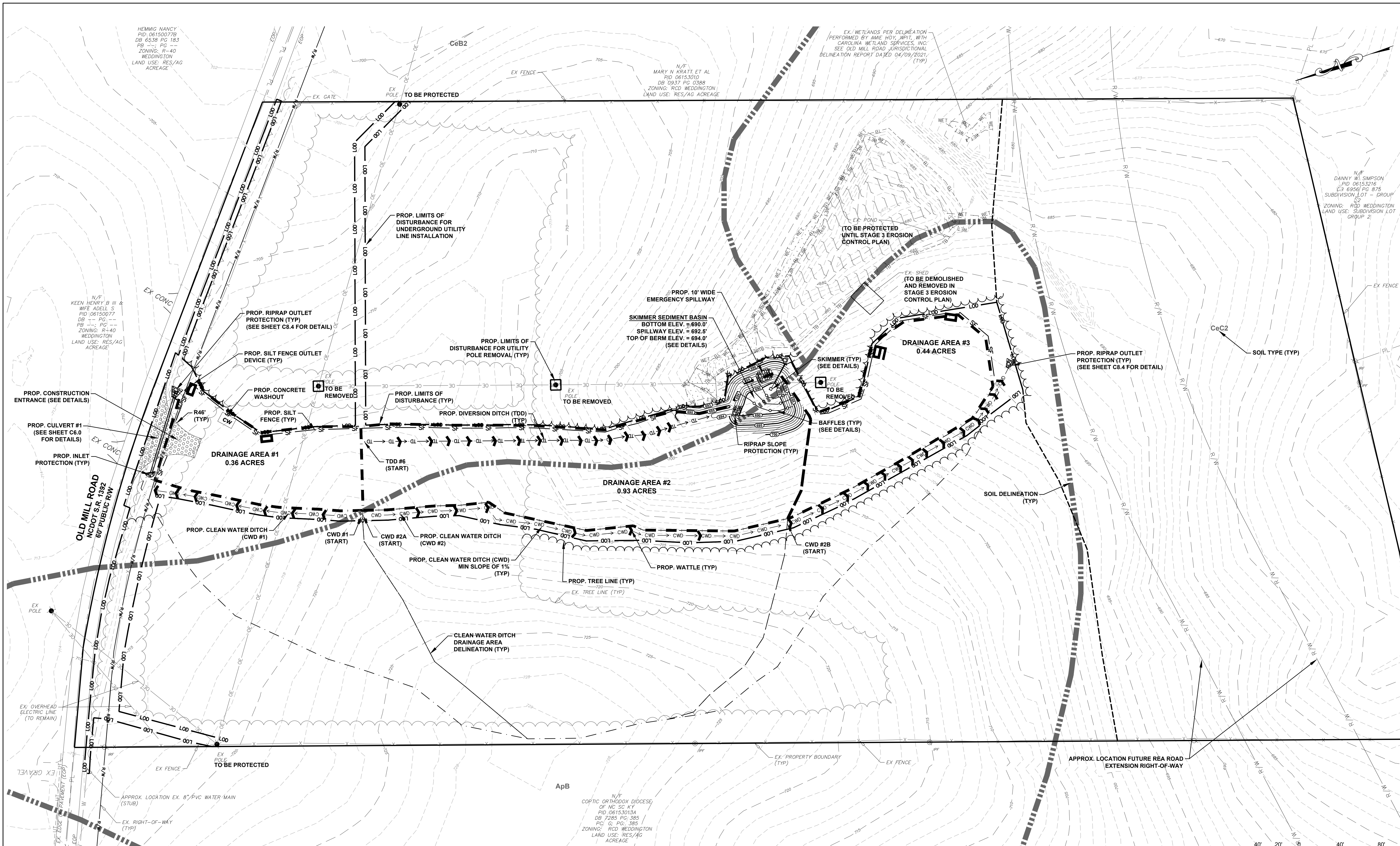
DSG
Development Solutions Group

BELLE MAR RESIDENTIAL
0 OLD MILL ROAD
TOWN OF WEDDINGTON, NC

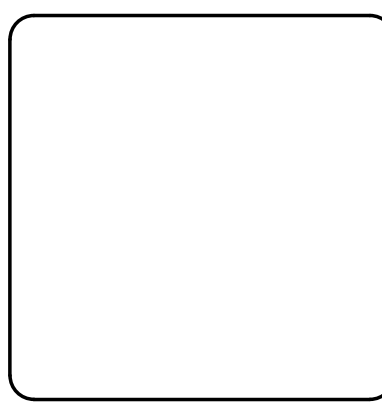
SITE PLAN

DATE:	MAY 2021	SCALE:	1" = 60'	C3.0
MCE PROJ. #:	07780-0613	HORIZONTAL:	1" = 60'	
DRAWN:	JPM	VERTICAL:	N/A	DRAWING NUMBER:
DESIGNED:	JPM			F
CHECKED:	PMN			REVISION
PROJ. MGR.:	PMN			

STATUS: **PRELIMINARY DRAWING NOT FOR CONSTRUCTION**



REV. NO.	DESCRIPTIONS	DATE
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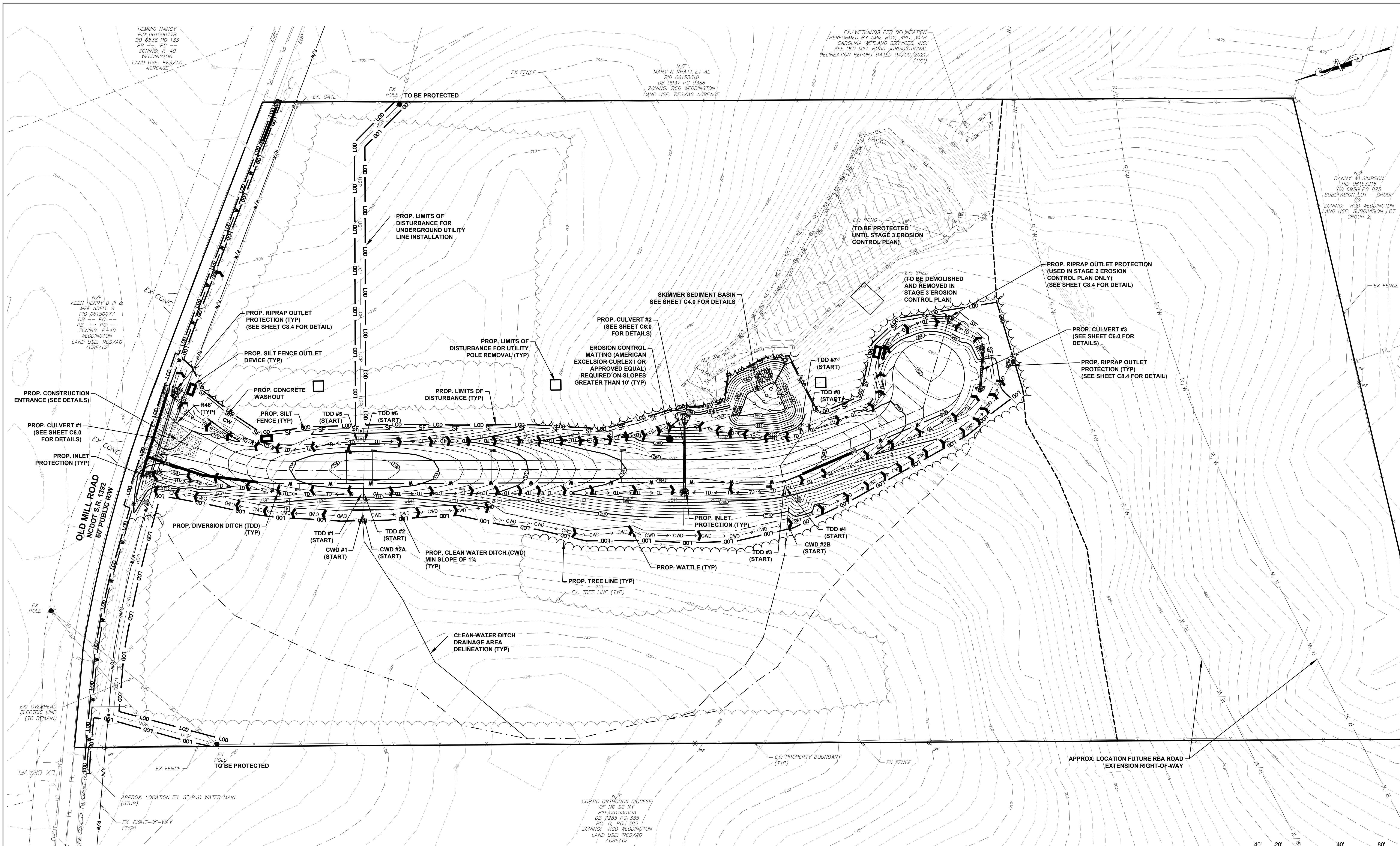
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DSG
 Development Solutions Group

BELLE MAR RESIDENTIAL
 0 OLD MILL ROAD
 TOWN OF WEDDINGTON, NC

EROSION CONTROL
 STAGE 1

DATE: MAY 2021	SCALE: HORIZONTAL: 1" = 40'	C4.0
MCE PROJ. # 07780-0013	VERTICAL: N/A	
DRAWN: JPM	DESIGNED: JPM	DRIVING NUMBER: F
CHECKED: PMN	PROJ. MGR.: PMN	REVISION: F
STATUS: PRELIMINARY DRAWING NOT FOR CONSTRUCTION		



HEMIG NANCY
PID 061500778
DB 6538 PG 183
ZONING: R-40
WEDDINGTON
LAND USE: RES/AG
ACREAGE

MARY N KRATT ET AL
PID 06153010
DB 0937 PG 0388
ZONING: RCD WEDDINGTON
LAND USE: RES/AG
ACREAGE

EX. WETLANDS PER DELINEATION
PERFORMED BY AME HOY, WPI, WITH
CAROLINA WETLAND SERVICES, INC.
SEE OLD MILL ROAD JURISDICTIONAL
DELINEATION REPORT DATED 04/09/2021
(TYP)

DANNY W SIMPSON
PID 06153216
DB 6956 PG 875
SUBDIVISION LOT - GROUP
2
ZONING: RCD WEDDINGTON
LAND USE: SUBDIVISION LOT
GROUP 2

N/F
KEEN HENRY B III &
WIFE ADELL S
PID 06150077
DB -- PG --
ZONING: R-40
WEDDINGTON
LAND USE: RES/AG
ACREAGE

N/F
COPTIC ORTHODOX DIOCESE
OF NC SC KY
PID 06153013A
DB 7285 PG 385
PC G, PG: 385
ZONING: RCD WEDDINGTON
LAND USE: RES/AG
ACREAGE

REV.	DESCRIPTIONS	DATE
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B	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	09/10/2021
A	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	08/04/2021



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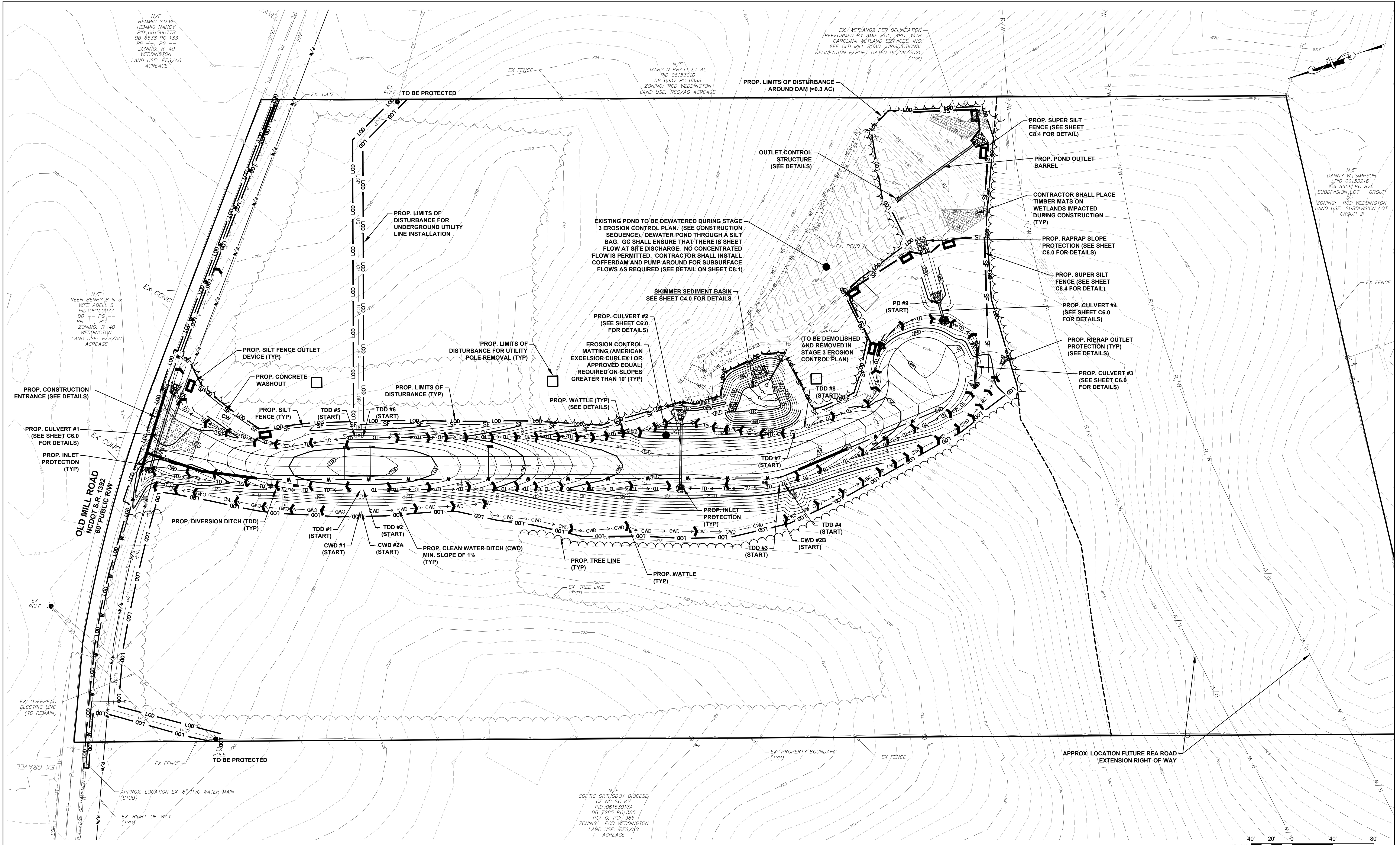
BELLE MAR RESIDENTIAL
0 OLD MILL ROAD
TOWN OF WEDDINGTON, NC
EROSION CONTROL
STAGE 2

DATE: MAY 2021
MCE PROJ. #: 07780-0613
DRAWN: JPM
DESIGNED: JPM
CHECKED: PMN
PROJ. MGR.: PMN

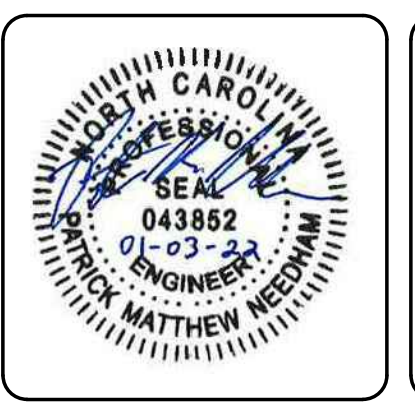
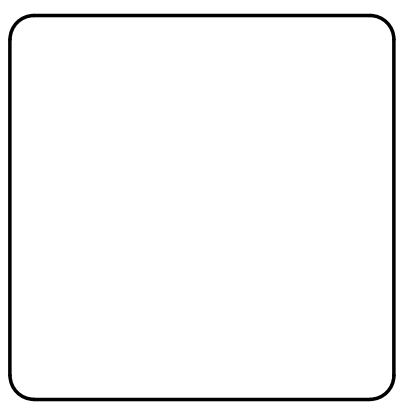
SCALE
HORIZONTAL: 1" = 40'
VERTICAL: N/A

C4.1
DRAWING NUMBER
F
REVISION

STATUS: **PRELIMINARY DRAWING**
NOT FOR CONSTRUCTION



REV.	DESCRIPTIONS	DATE
F	ADDRESSED COMMENTS FROM UCPW	01/03/2022
E	ADDRESSED COMMENTS FROM UCPW	11/19/2021
D	ADDRESSED COMMENTS FROM UCPW	10/14/2021
C	ADDRESSED COMMENTS FROM NCDOT POST-CONSTRUCTION STORMWATER	10/14/2021
B	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	09/10/2021
A	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	08/04/2021



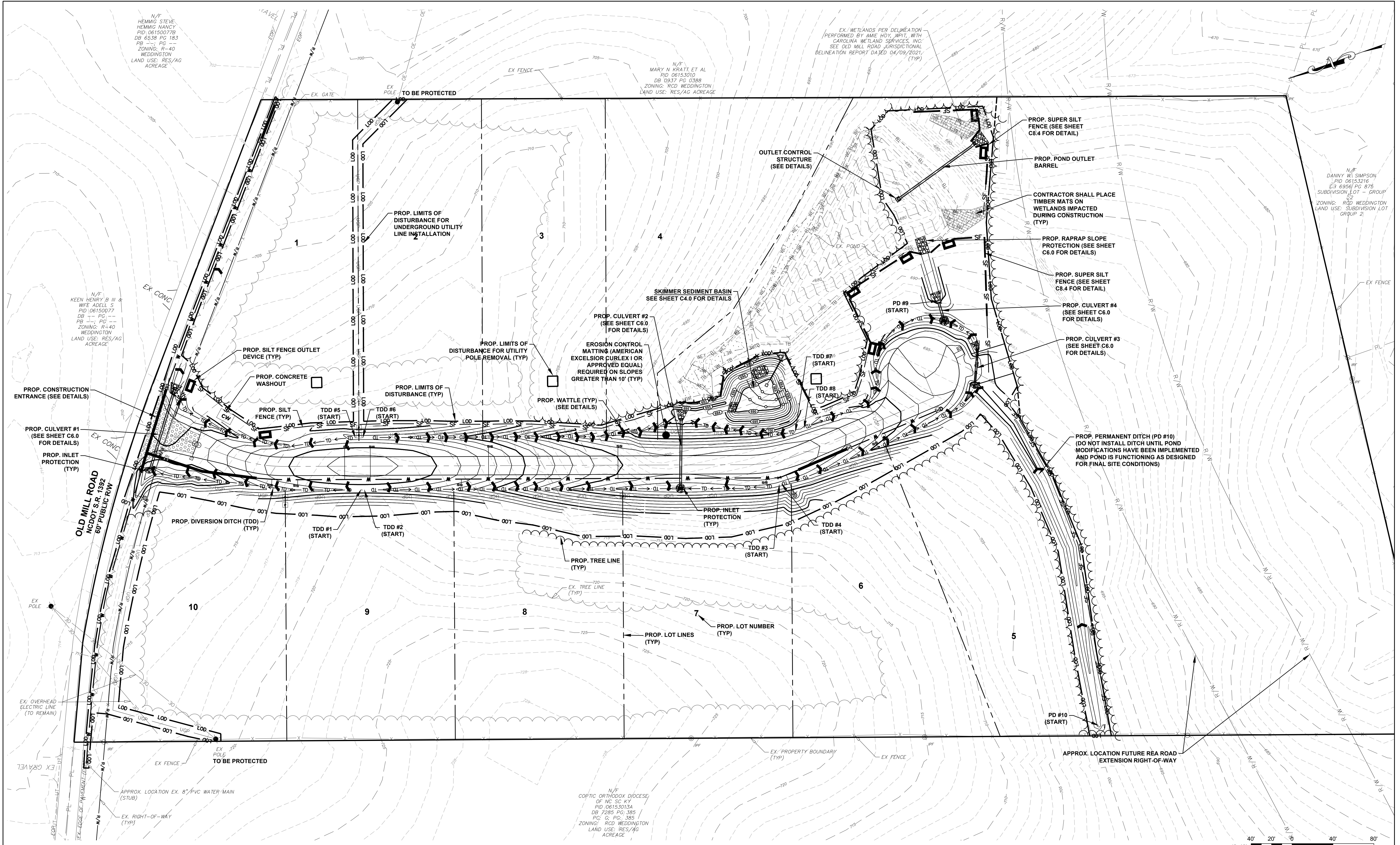
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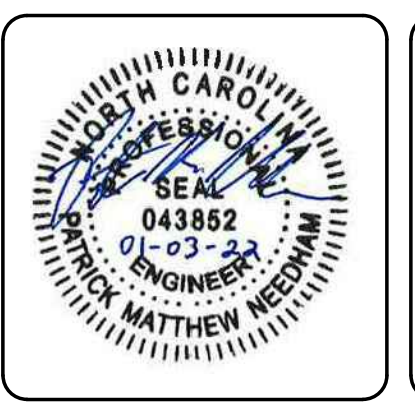
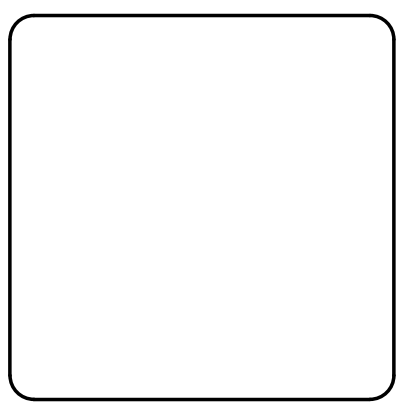
BELLE MAR RESIDENTIAL
 0 OLD MILL ROAD
 TOWN OF WEDDINGTON, NC

EROSION CONTROL
 STAGE 3

DATE: MAY 2021	SCALE: HORIZONTAL: 1" = 40'	C5.0
MCE PROJ. # 07780-0013	VERTICAL: N/A	
DRAWN: JPM	PROJ. MGR. PMN	REVISION: F
DESIGNED: JPM		
CHECKED: PMN		
STATUS: PRELIMINARY DRAWING NOT FOR CONSTRUCTION		



REV.	DESCRIPTION	DATE
F	ADDRESSED COMMENTS FROM UCPW	01/03/2022
E	ADDRESSED COMMENTS FROM UCPW	11/19/2021
D	ADDRESSED COMMENTS FROM UCPW	10/14/2021
C	ADDRESSED COMMENTS FROM NCDOT POST-CONSTRUCTION STORMWATER	10/11/2021
B	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	09/10/2021
A	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	08/04/2021

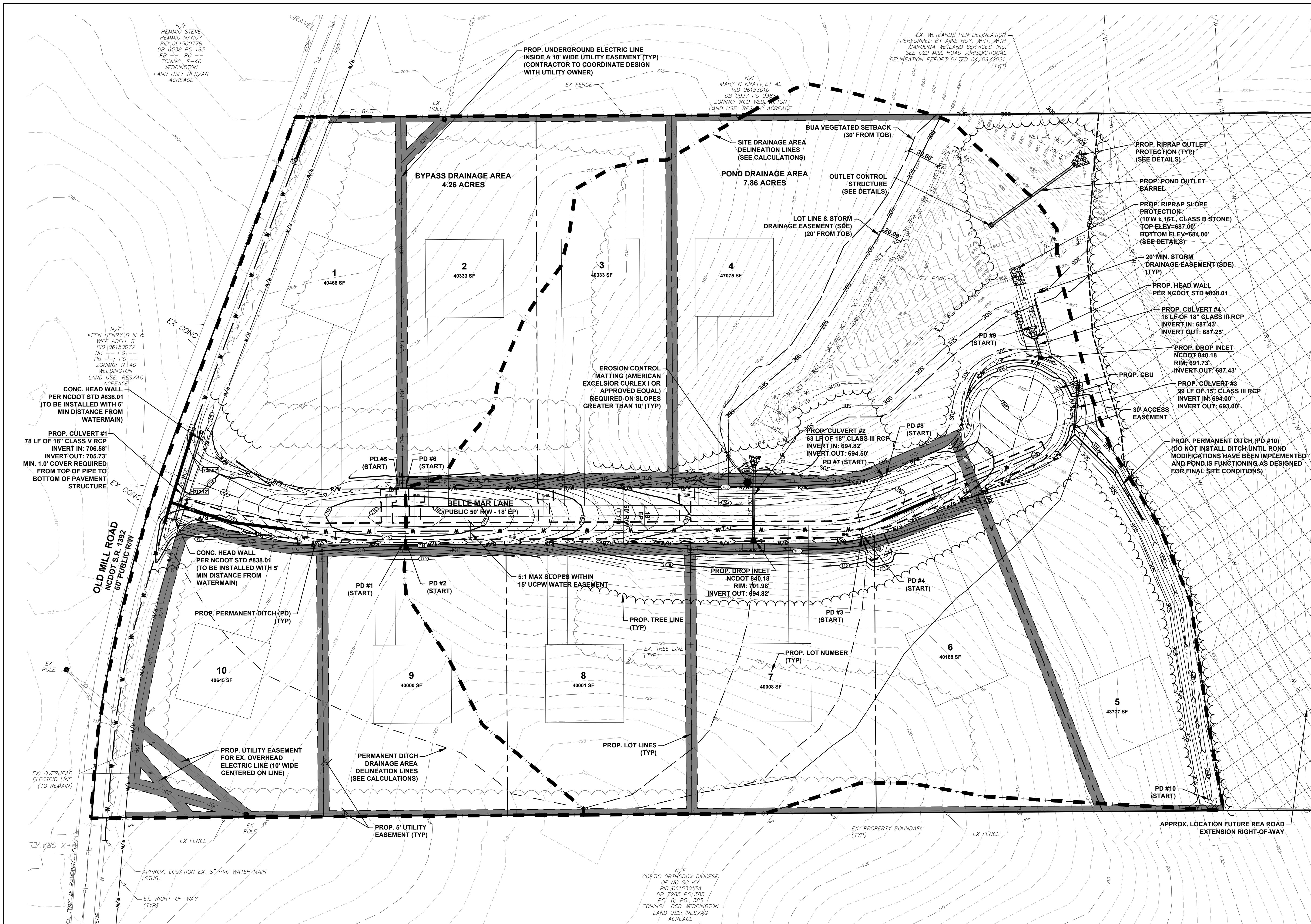


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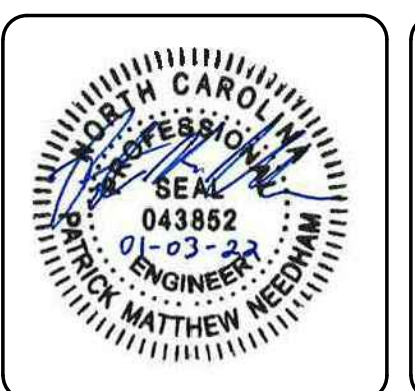
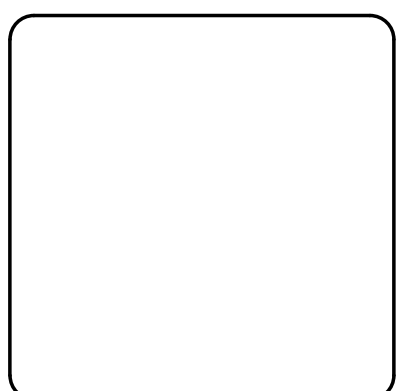
BELLE MAR RESIDENTIAL
0 OLD MILL ROAD
TOWN OF WEDDINGTON, NC
EROSION CONTROL
STAGE 4

DATE: MAY 2021	SCALE: HORIZONTAL: 1" = 40'	C5.1
MCE PROJ. #: 07780-0013	VERTICAL: N/A	
DRAWN: JPM	DESIGNED: JPM	DRAWING NUMBER: F
CHECKED: PMN	PROJ. MGR.: PMN	REVISION:
STATUS: PRELIMINARY DRAWING NOT FOR CONSTRUCTION		



- NOTES:**
- PROJECT SCOPE INCLUDES DEVELOPMENT OF SITE ENTRANCE, ROADWAY, PERMANENT STORM WATER MEASURES, AND WATER LINE (WITH ASSOCIATED APPURTENANCES). THE LIMITS OF DISTURBANCE SHALL BE LIMITED TO WHAT IS NEEDED TO INSTALL THE ABOVE MENTIONED COMPONENTS. INDIVIDUAL LOTS, TO INCLUDE FINAL DRIVEWAY AND BUILDING PAD LOCATIONS, WILL BE DESIGNED, PERMITTED, AND DEVELOPED BY OTHERS.
 - AFTER POND OUTLET STRUCTURE INSTALLATION, POND EMBANKMENT SHALL BE REPLACED AND COMPACTED ACCORDING TO GEOTECHNICAL ENGINEER'S RECOMMENDATION.

REV. NO.	DESCRIPTIONS	DATE
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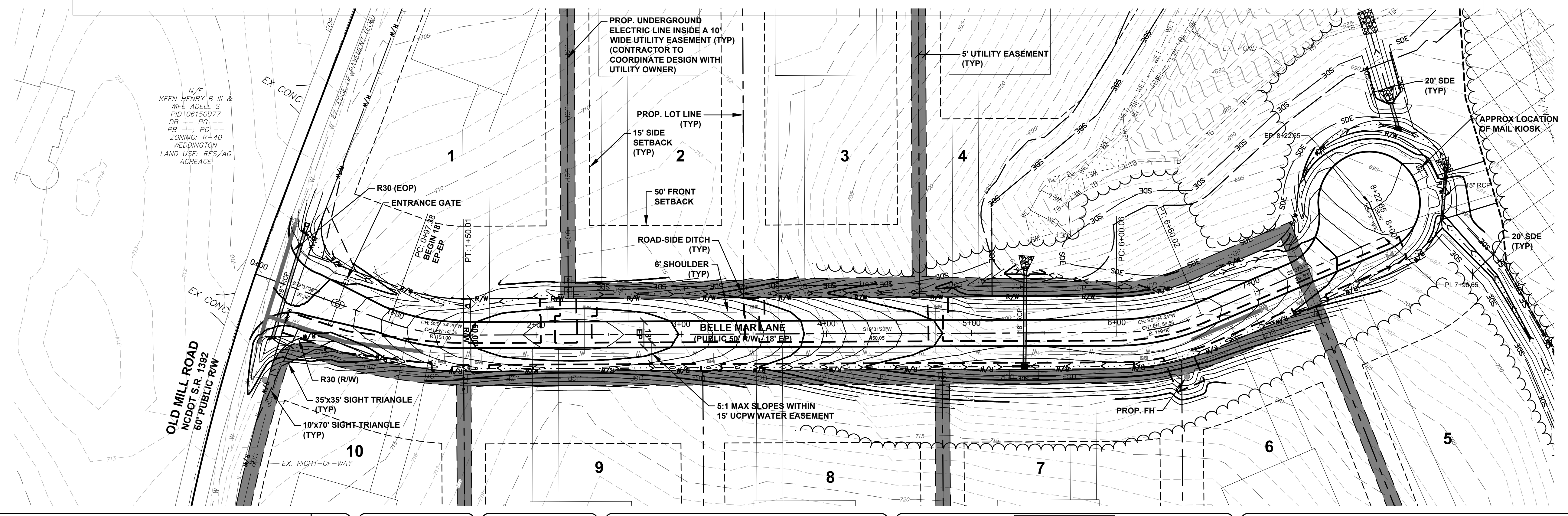
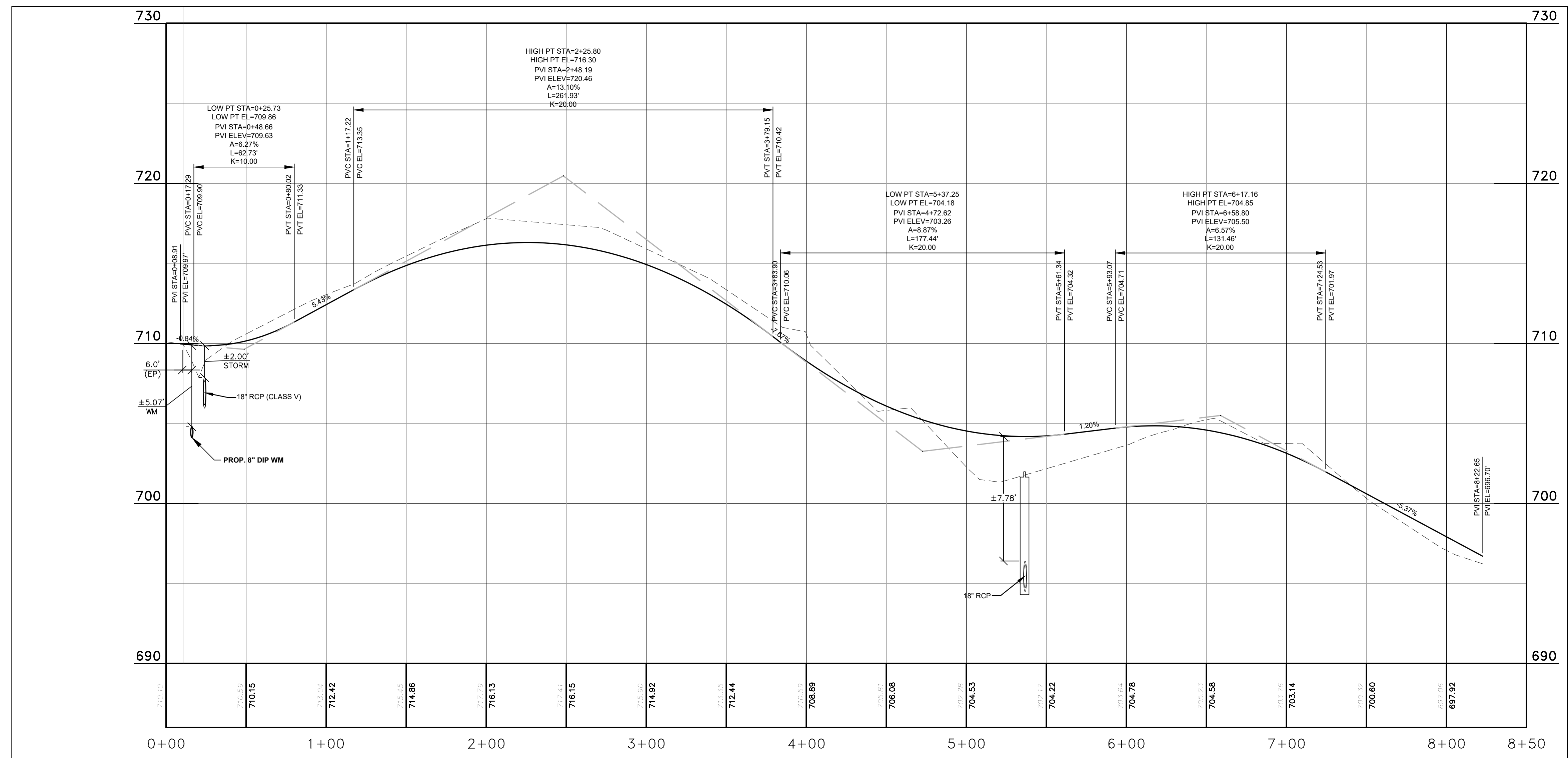
BELLE MAR RESIDENTIAL
 0 OLD MILL ROAD
 TOWN OF WEDDINGTON, NC
 GRADING & DRAINAGE
 PLAN

DATE: MAY 2021
 MCE PROJ. #: 07780-0613
 DRAWN: JPM
 DESIGNED: JCB
 CHECKED: PMN
 PROJ. MGR.: PMN

SCALE
 HORIZONTAL: 1" = 40'
 VERTICAL: N/A

C6.0
 DRAWING NUMBER
 F
 REVISION

STATUS: **PRELIMINARY DRAWING NOT FOR CONSTRUCTION**



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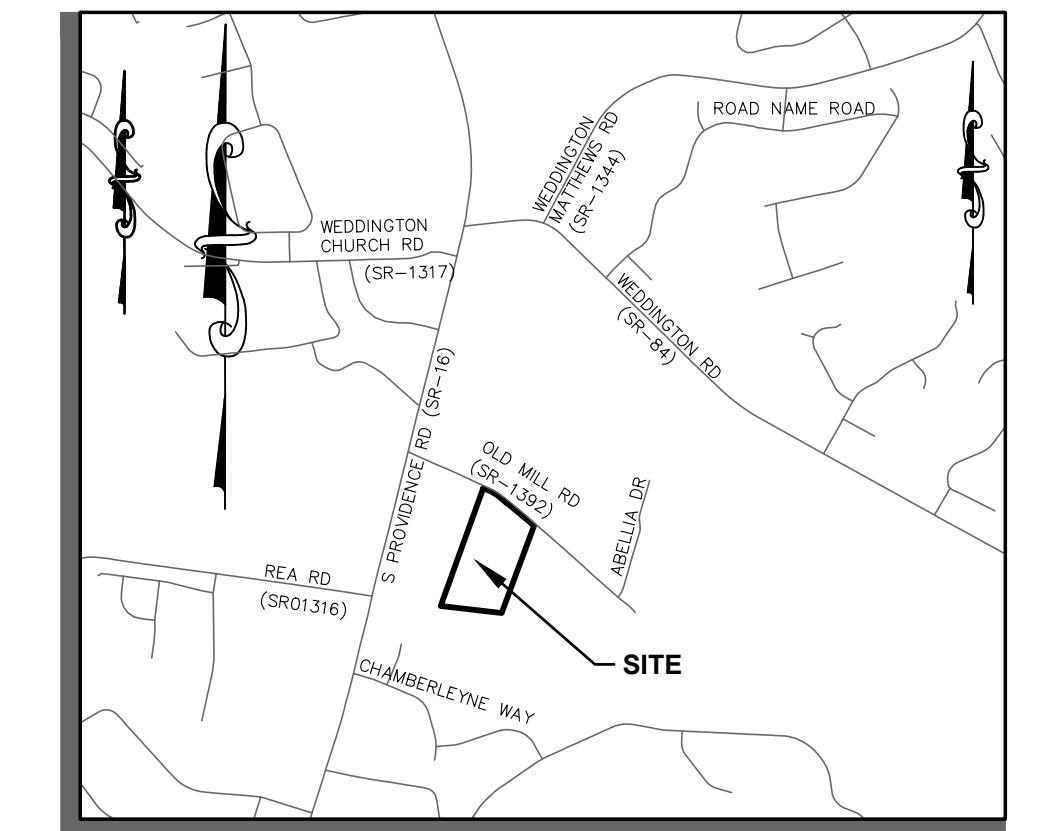
BELLE MAR RESIDENTIAL
 0 OLD MILL ROAD
 TOWN OF WEDDINGTON, NC
 ROADWAY PLAN & PROFILE FOR BELLE MAR LANE

DATE: MAY 2021
 MCE PROJ. #: 07780-0613
 DRAWN: JPM
 DESIGNED: JPM
 CHECKED: PMN
 PROJ. MGR.: PMN

SCALE
 HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 4'

C7.0
 DRAWING NUMBER
 F
 REVISION

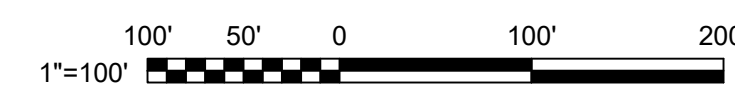
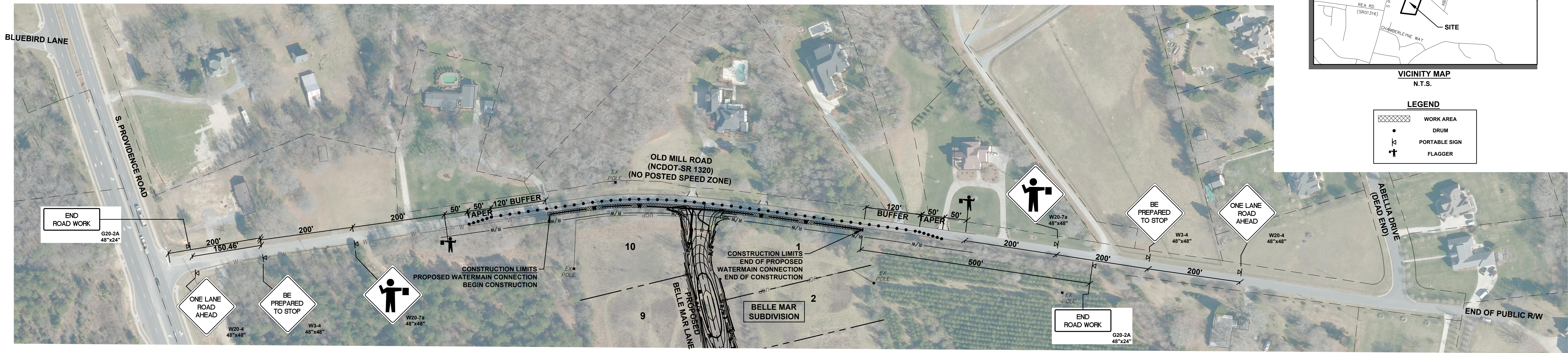
STATUS: **PRELIMINARY DRAWING NOT FOR CONSTRUCTION**



VICINITY MAP
N.T.S.

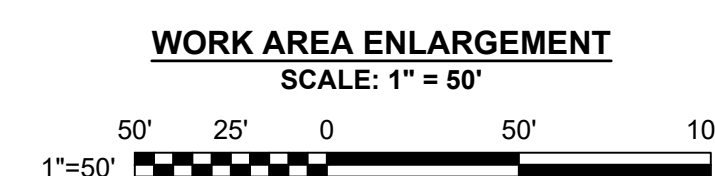
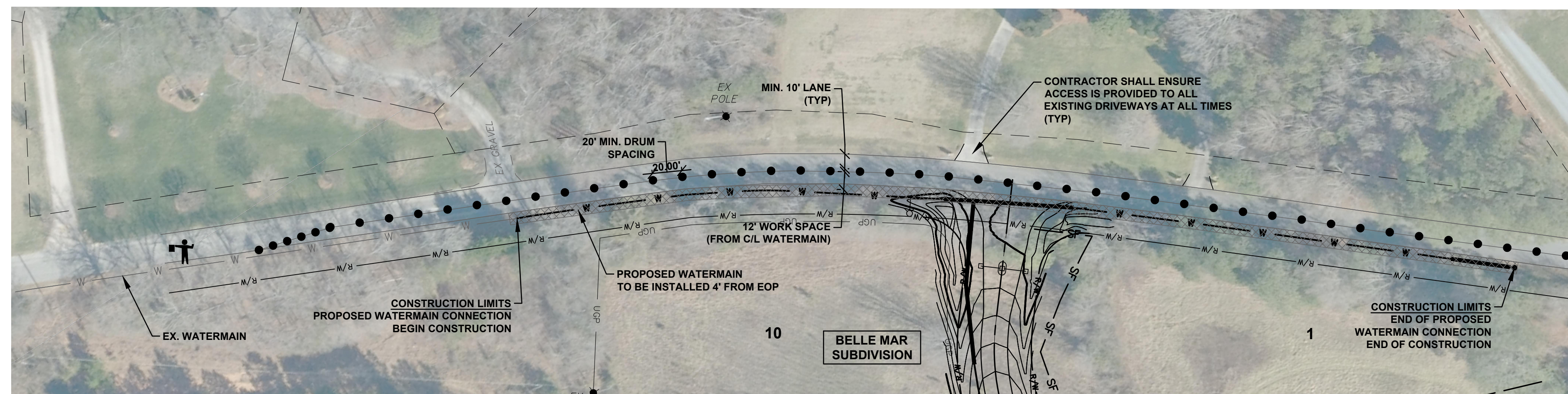
LEGEND

	WORK AREA
	DRUM
	PORTABLE SIGN
	FLAGGER

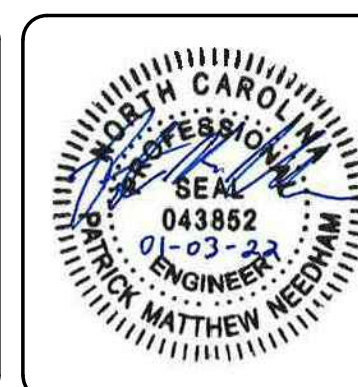


TRAFFIC CONTROL GENERAL NOTES:

- ALL MATERIALS, CONSTRUCTION, AND PLANS ARE TO COMPLY WITH CURRENT NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, POLICIES, PROCEDURES, SPECIAL PROVISIONS, DETAILS, AND ANY OTHER APPLICABLE NCDOT MANUALS.
- THE PURPOSE OF THIS DRAWING IS TO NOTIFY NCDOT OF THE PROPOSED ENCROACHMENT / TRAFFIC CONTROL PLAN TO INSTALL NEW ROADWAY PAVEMENT AND A WATER LINE EXTENSION ALONG OLD MILL ROAD (SR-1320).
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED AND VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO BEGINNING CONSTRUCTION. DEPTHS SHOWN HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL BE AWARE OF OVERHEAD UTILITY LINES AND COORDINATE WITH RESPECTIVE UTILITY POLE OWNERS TO DETERMINE NEED AND EXTENT OF BRACING.
- CONTRACTOR IS RESPONSIBLE FOR PLACING BARRICADES, USING FLAG MEN, ETC. AS NECESSARY TO ENSURE THE SAFETY OF THE PUBLIC.
- ALL PAVEMENT CUTS & REPAIRS, ASPHALT OR CONCRETE, ARE TO BE PLACED ACCORDING TO STANDARDS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.
- CONTACT NCDOT @ 811 OR 800.632.4949, A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- TYPE III BARRICADE AND/OR ANCHORED STEEL PLATING (OR OTHER NCDOT APPROVED DEVICES) SHALL BE USED OVER ENTIRE OPEN-CUT/TRENCHED AREAS IF WORK ZONE IS LEFT UNATTENDED OVERNIGHT.
- SHORING WILL BE ACCORDING TO OSHA TRENCHING STANDARDS, PART 1926, SUBPART P, OR AS AMENDED. CONTRACTOR SHALL USE HYDRAULIC SHORING WITH STEEL END PANELS AS INSTRUCTED BY NCDOT. IF SITE CONDITIONS DO NOT WARRANT HYDRAULIC SHORING, CONTRACTOR SHALL COORDINATE WITH NCDOT INSPECTOR. CONTRACTOR SHALL AVOID ENCROACHING THE THEORETICAL 1:1 TRAFFIC LOADING SLOPE FROM THE EOP.
- TRAFFIC CONTROL STANDARDS ARE TO COMPLY WITH CURRENT NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, PROVISIONS, AND DETAILS. ALL SIGNS AND DEVICES SHALL BE PLACED IN ACCORDANCE WITH THE LATEST PROVISIONS OF THE NCDOT - DIVISION OF HIGHWAYS STANDARD DRAWINGS MANUAL WITH RESPECT TO ANY APPLICABLE PROVISIONS FROM THE TOWN OF WEDDINGTON.
- NO EXCAVATION WITHIN THE CLEAR RECOVERY ZONE SHALL BE LEFT OPEN OVERNIGHT.
- CONTRACTOR/FLAGMEN SHALL ENSURE NO DRIVEWAY IS BLOCKED AND THAT THE TRAFFIC CAN TURN ON TO THE ROAD SAFELY. SIGHT DISTANCE FOR ALL DRIVERS SHALL BE MAINTAINED AND MET ACCORDING TO NCDOT STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL PLACE ADDITIONAL FLAGGERS AT DRIVEWAYS TO ENSURE TRAFFIC CONTROL.
- A TRUCK MOUNTED ATTENUATOR (TMA) WITH FLASHING ARROW BOARD AND A CHANGEABLE MESSAGE SIGN (CMS) SHALL BE INSTALLED PER NCDOT DETAIL 1101.02 WHEN REQUIRED AND/OR OTHER NCDOT APPROVED DETAILS SHALL BE USED TO INSTALL AND OPERATE TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL ENSURE NECESSARY EROSION CONTROL MEASURES ARE IMPLEMENTED TO MINIMIZE EROSION AND SEDIMENTATION LEAVING THE SITE OR ENTERING ANY WATERWAYS (STREAMS, DITCHES, LAKES, ETC.). EROSION CONTROL MEASURES SHOWN IN PLANS REPRESENT THE MINIMUM REQUIREMENTS AND SHALL BE ADJUSTED IN THE FIELD BY CONTRACTOR BASED ON SITE CONDITIONS. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE SEDIMENTATION.
- TRAFFIC CONTROL DEVICES SHOWN ARE A TYPICAL CONFIGURATION TO BE UTILIZED AT EVERY LOCATION WHERE R/W ACCESS IS REQUIRED WITHIN THE EXTENT OF THE R/W ACCESS. THERE SHALL BE 500' MAXIMUM WORK AREA AT ONE TIME. TRAFFIC CONTROL DEVICES SHALL BE MOVED ACCORDINGLY BEFORE THE NEXT WORK AREA BEGINS.
- ACCESS TO RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO BE MAINTAINED AT ALL TIMES.
- BUFFER SPACE MAY BE MODIFIED TO FIT FIELD CONDITIONS.
- SIGN SPACING MAY BE ADJUSTED TO FIT FIELD CONDITIONS.



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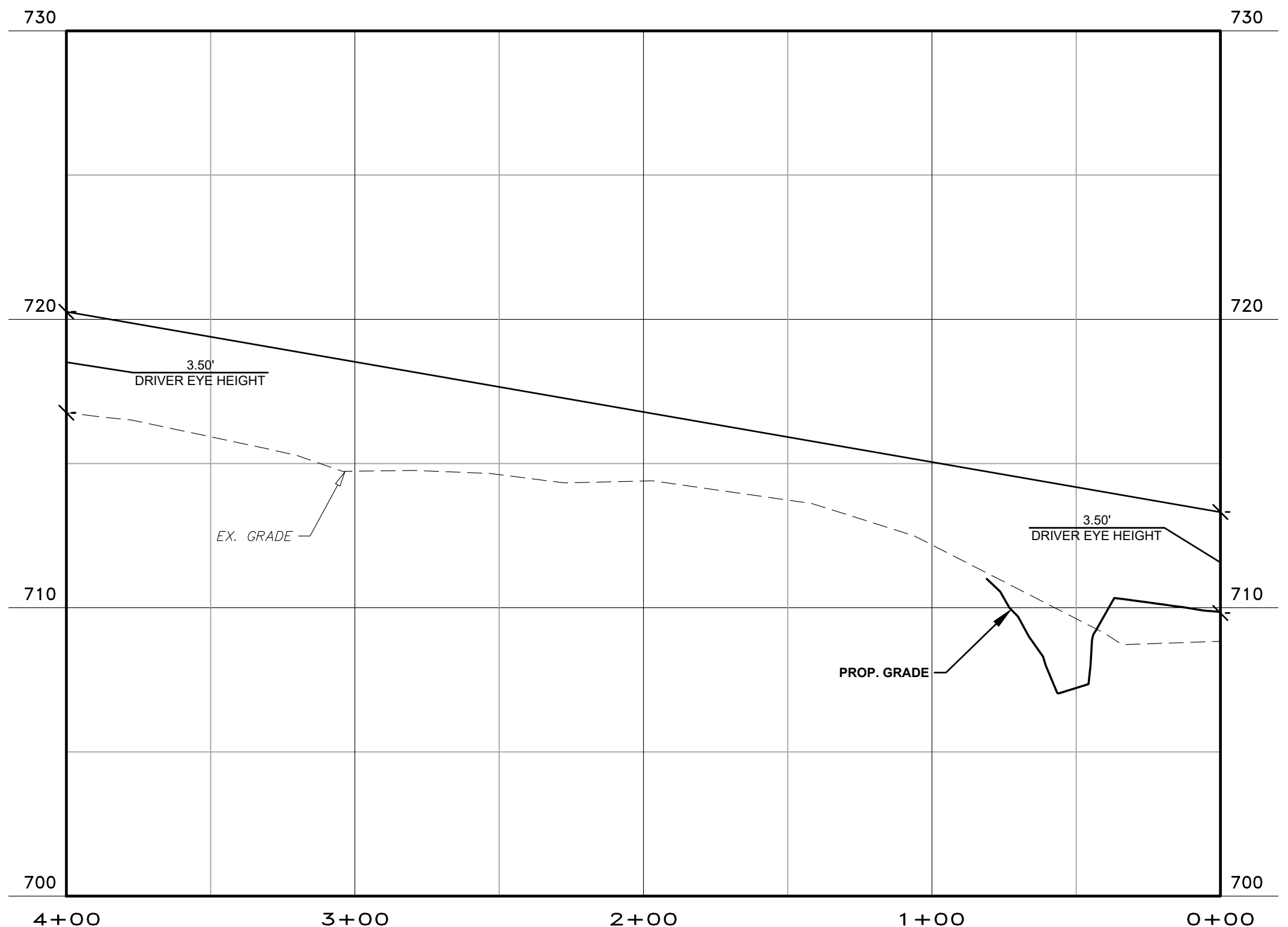
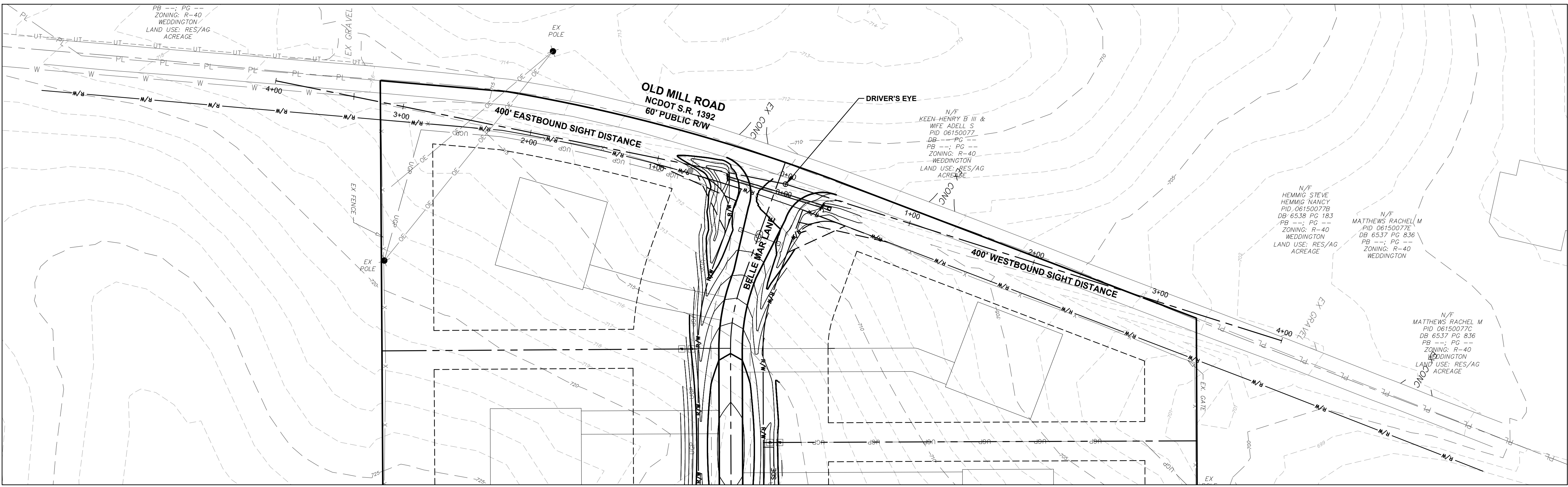
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BELLE MAR RESIDENTIAL
 0 OLD MILL ROAD
 TOWN OF WEDDINGTON, NC

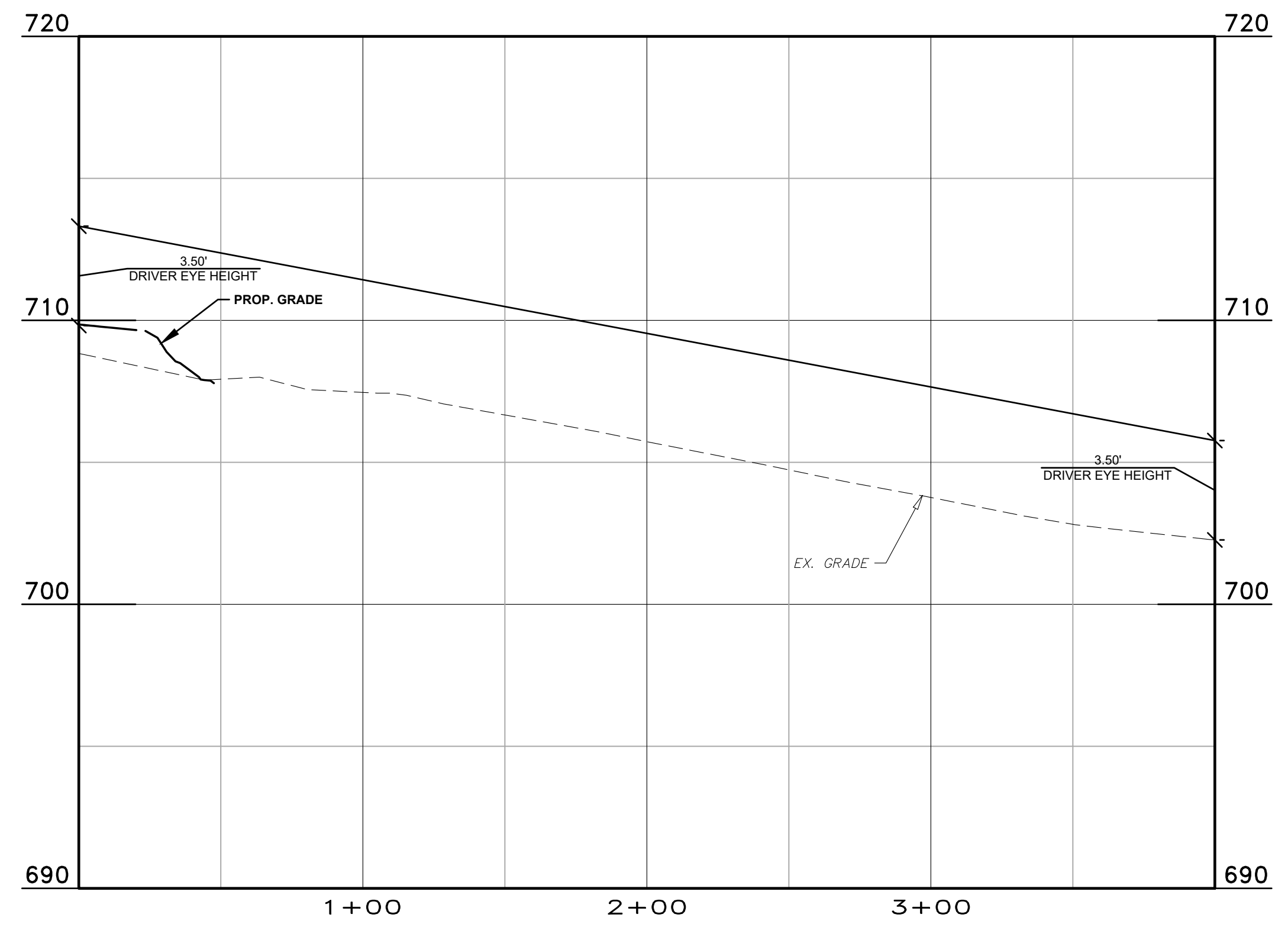
NCDOT TRAFFIC CONTROL PLAN

DATE: MAY 2021	SCALE: C7.1
MCE PROJ. #: 07780-0013	HORIZONTAL: AS SHOWN
DRAWN: JPM	VERTICAL: N/A
DESIGNED: JPM	REVISION: F
CHECKED: PMN	
PROJ. MGR.: PMN	

STATUS: **PRELIMINARY DRAWING NOT FOR CONSTRUCTION**



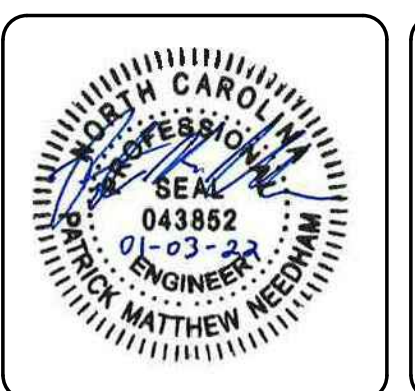
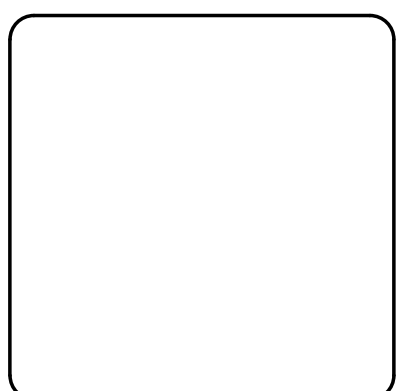
LEFT HAND SIGHT DISTANCE
(OLD MILL ROAD EASTBOUND LANE)
(NO POSTED SPEED LIMIT, ASSUME 35 MPH FOR INSIDE TOWN LIMITS)
HORIZONTAL SIGHT DISTANCE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



RIGHT HAND SIGHT DISTANCE
(OLD MILL ROAD WESTBOUND LANE)
(NO POSTED SPEED LIMIT, ASSUME 35 MPH FOR INSIDE TOWN LIMITS)
HORIZONTAL SIGHT DISTANCE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

NOTE:
OWNER IS RESPONSIBLE TO REMOVE EXISTING TREES / OBSTRUCTIONS LOCATED WITHIN SIGHT LINE. PERMISSION FROM ADJACENT PROPERTY OWNER IS REQUIRED PRIOR TO TREE / OBSTRUCTIONS REMOVAL FROM ADJACENT PROPERTY. IF TREES ARE ONLY TRIMMED AND NOT FULLY REMOVED AN EASEMENT WILL BE REQUIRED IN ORDER TO MAINTAIN CLEAR SIGHT DISTANCE.

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BELLE MAR RESIDENTIAL
0 OLD MILL ROAD
TOWN OF WEDDINGTON, NC
SIGHT DISTANCE PLAN & PROFILE BELLE MAR LANE

DATE: MAY 2021
MCE PROJ. #: 07780-0613
DRAWN: JPM
DESIGNED: JPM
CHECKED: PMN
PROJ. MGR.: PMN

SCALE
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'

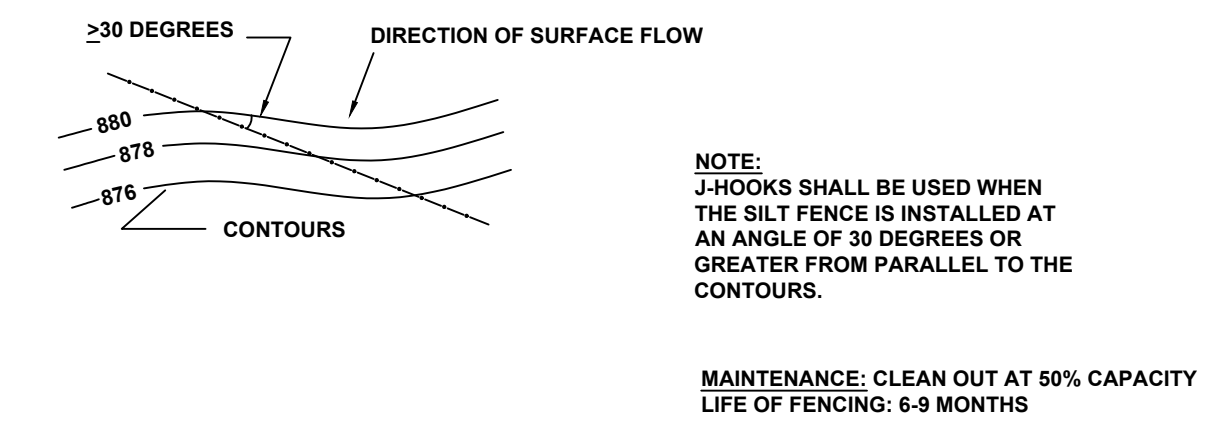
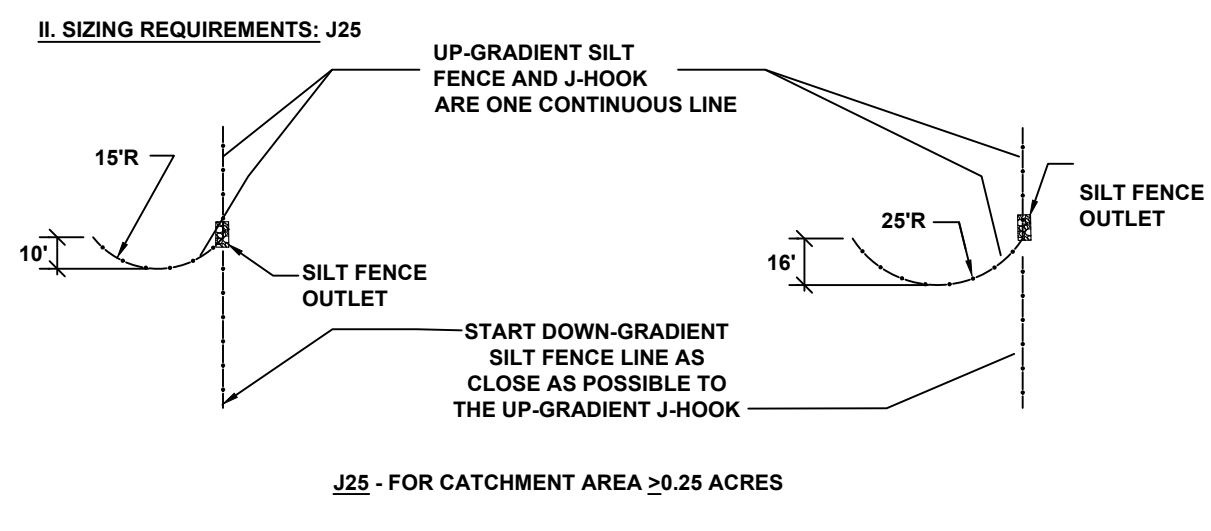
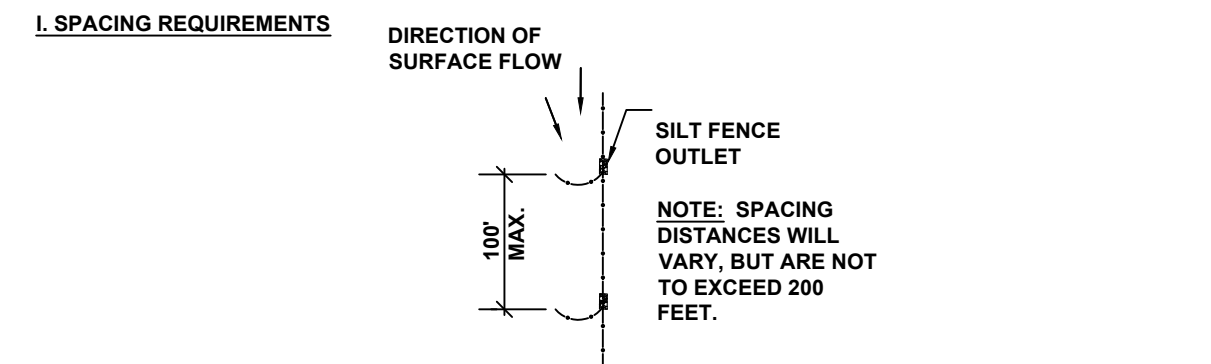
C7.2
DRAWING NUMBER
F
REVISION

STATUS: **PRELIMINARY DRAWING NOT FOR CONSTRUCTION**

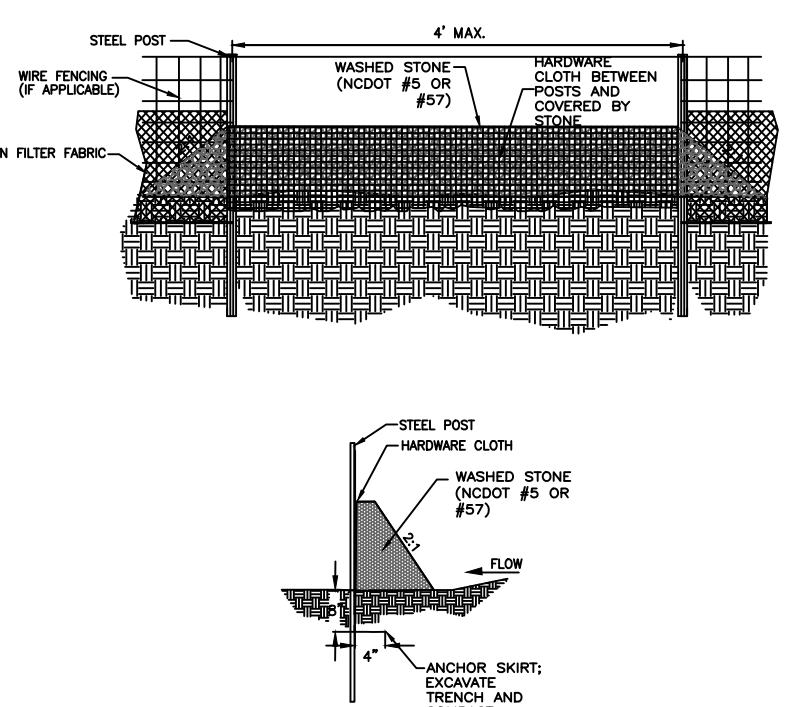
- ### Installation Specifications
- The base of both end posts should be at least one foot higher than the middle of the fence. Check with a level if necessary.
 - Install posts 4 feet apart in critical areas and 6 feet apart on standard applications.
 - Install posts 2 feet deep on the downstream side of the silt fence, and as close as possible to the fabric, enabling posts to support the fabric from upstream water pressure.
 - Install posts with the nipples facing away from the silt fabric.
 - Attach the fabric to each post with three ties, all spaced within the top 8 inches of the fabric. Attach each tie diagonally 45 degrees through the fabric, with each puncture at least 1 inch vertically apart. Also, each tie should be positioned to hang on a post nipple when tightened to prevent sagging.
 - Wrap approximately 6 inches of fabric around the end posts and secure with 3 ties.
 - No more than 24 inches of a 36 inch fabric is allowed above ground level.
 - The installation should be checked and corrected for any deviations before compaction.
 - Compaction is vitally important for effective results. Compact the soil immediately next to the silt fence fabric with the front wheel of the tractor, skid steer, or roller exerting at least 60 pounds per square inch. Compact the upstream side first, and then each side twice for a total of 4 trips.
 - Install wattles as shown on approved plans with 2" overlap from edge of silt fence to edge of wattle.

- ### Maintenance
- Inspect sediment fences at least once a week and after each rainfall. Make any required repairs immediately.
- Should the fabric of a sediment fence collapse, tear, decompose or become ineffective, replace it promptly.
- Remove sediment deposits as necessary to provide adequate storage volume for the next rain and to reduce pressure on the fence. Take care to avoid undermining the fence during cleanout.
- Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.

SILT FENCE OUTLET J-HOOK SPECIFICATIONS AND MAINTENANCE



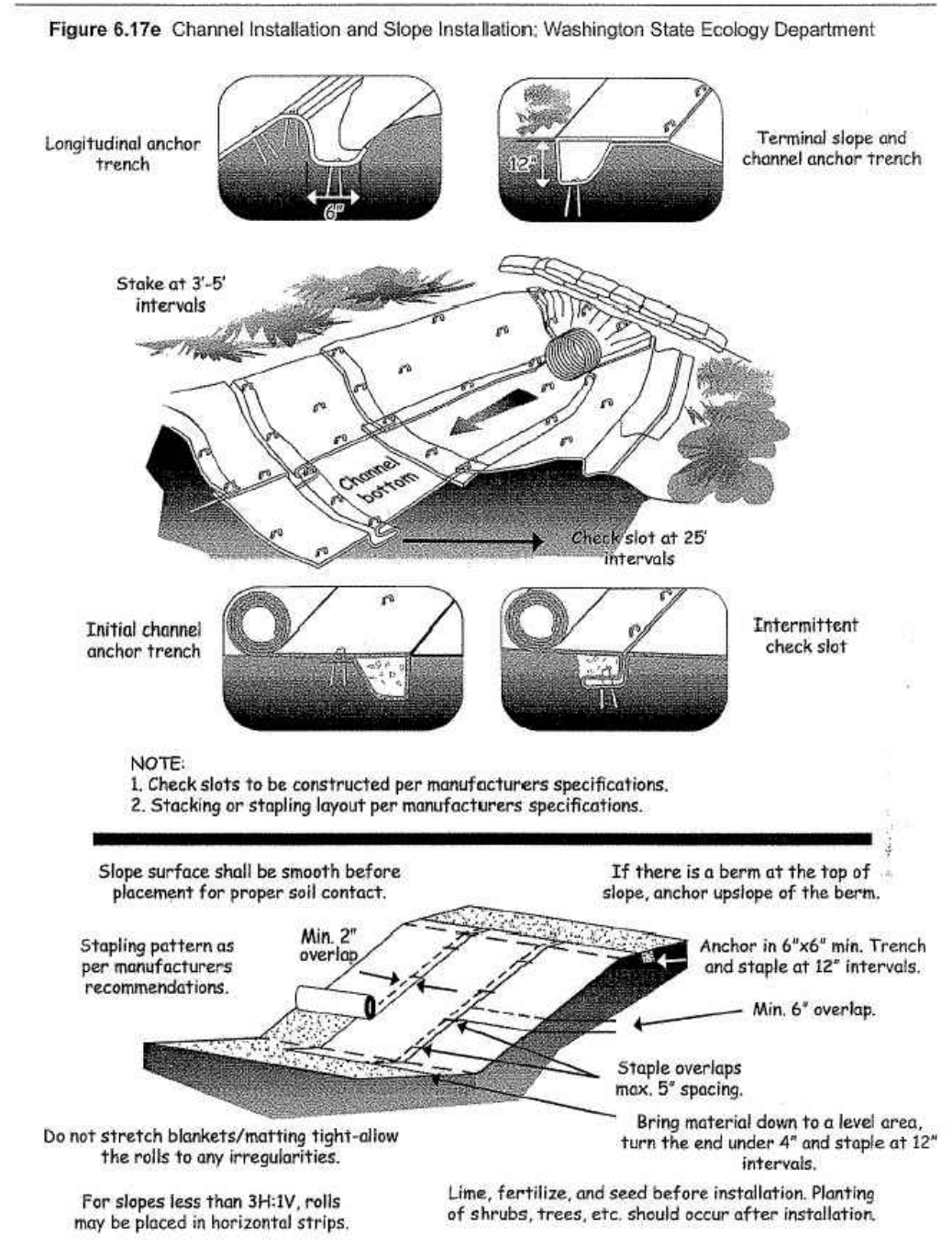
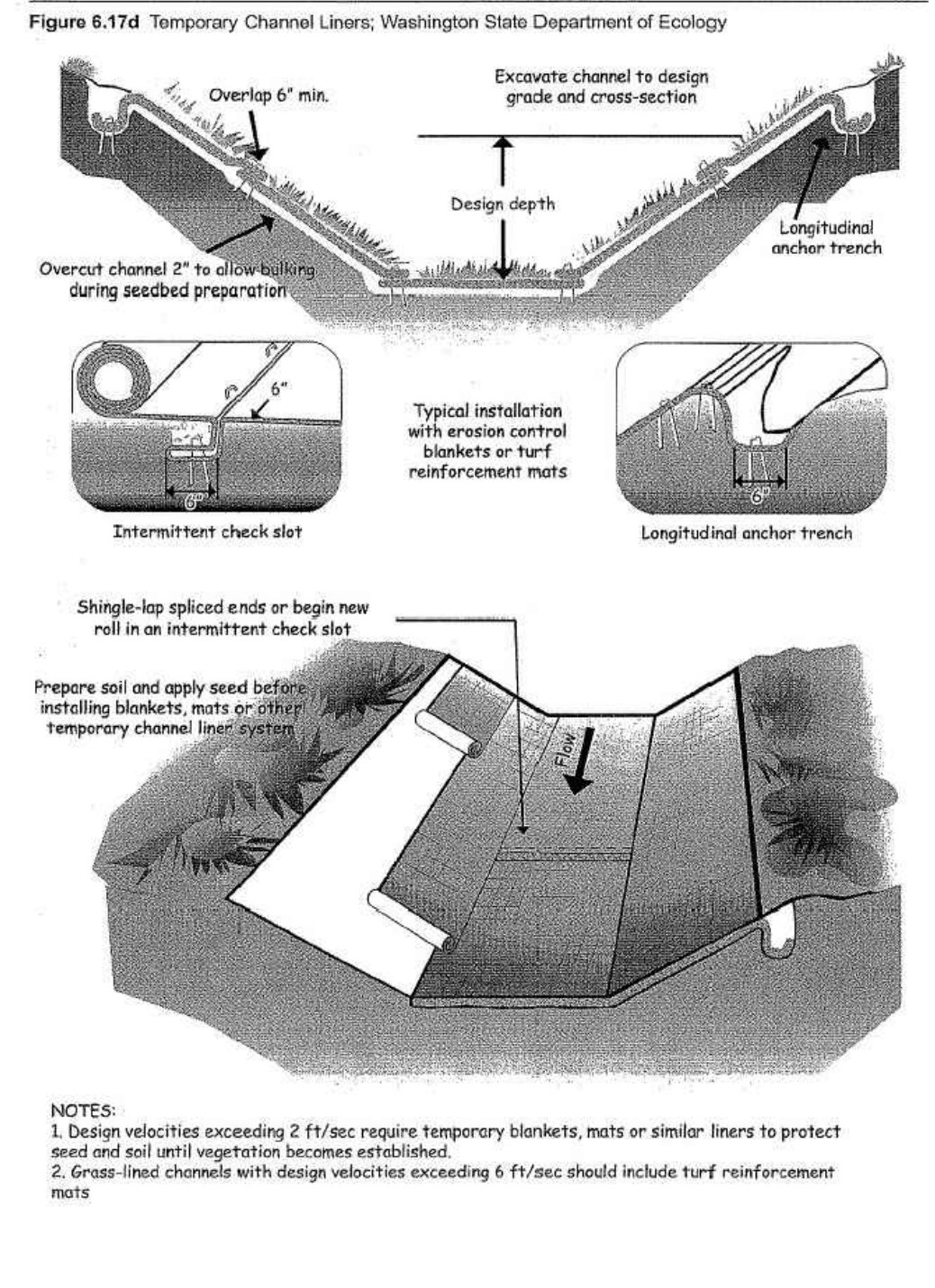
SILT FENCE OUTLET WITH J-HOOK NOT TO SCALE



- ### GENERAL NOTES:
- SEDIMENT FILTER OUTLET AND HARDWARE CLOTH SHALL BE 16 INCHES HIGH BUT NO TALLER THAN 18 INCHES.
 - HARDWARE CLOTH SHALL BE ANCHORED TO THE STEEL POSTS SECURELY USING APPROPRIATE ANCHORS. HARDWARE CLOTH SHALL BE KEPT IN A MINIMUM OF 12 INCHES IN LENGTH AND BACKFILLED PROPERLY AS SHOWN IN ABOVE DETAIL. HARDWARE CLOTH TO BE SAME AS STD. #30.09 (19 GAUGE, 1/4" SPACING).
 - POSTS SHALL BE NO MORE THAN 4 FEET APART.
 - SILT FENCE OUTLET AT ANY POINT SMALL CONCENTRATED FLOWS ARE ANTICIPATED AND AT THE DIRECTION OF THE INSPECTOR.

- ### MAINTENANCE NOTES:
- FILTER OUTLETS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
 - THE STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR REMOVED IT.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEED.

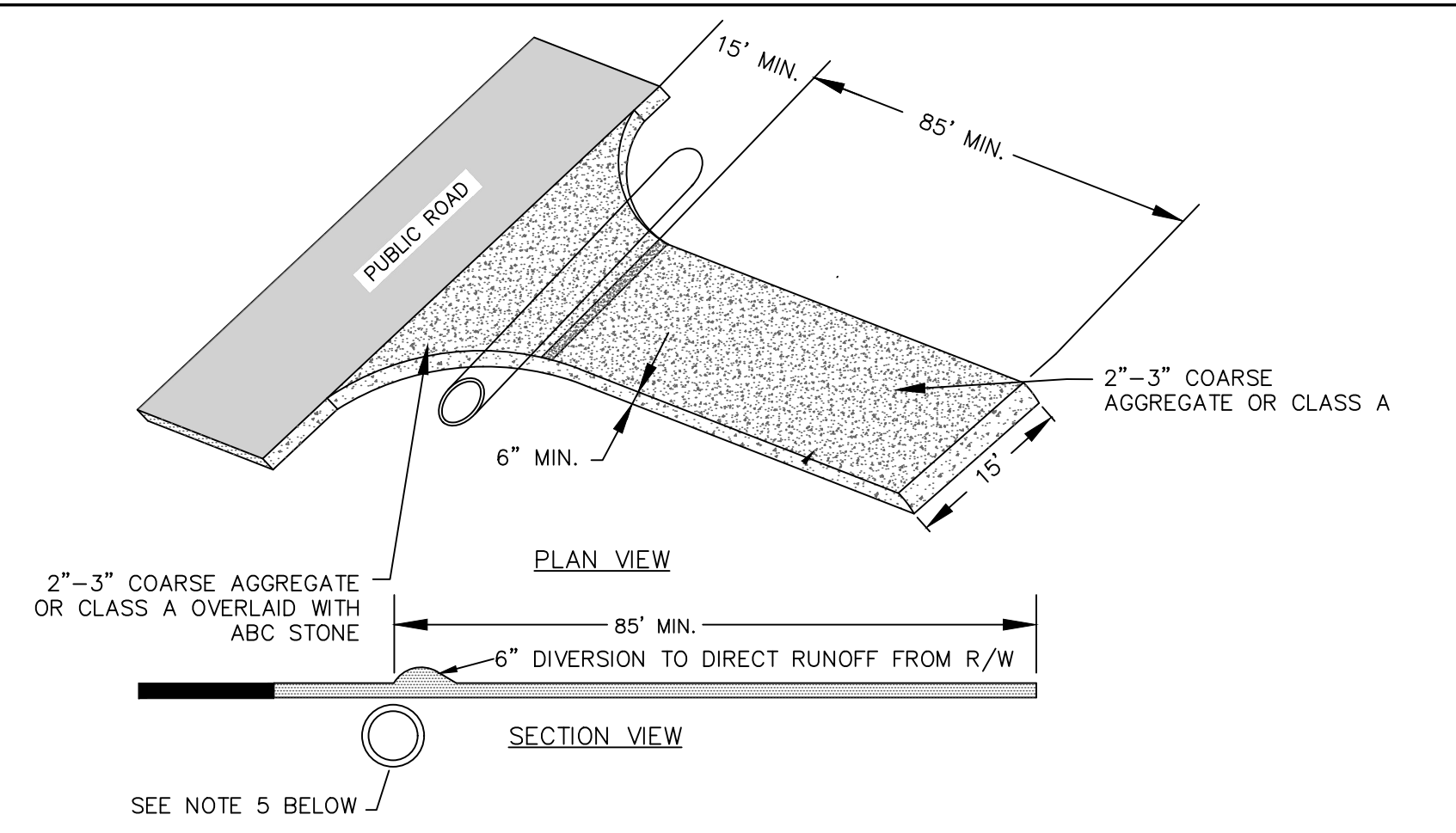
SILT FENCE OUTLET NOT TO SCALE



- ### TEMPORARY CHANNEL LINERS AND EROSION CONTROL MATTING SPECIFICATION:
- SEE DIVERSION DITCH CHART FOR LINER TYPE.
 - MIN. SHEAR STRENGTH: STRAW WITH NET (OR APPROVED EQUAL) - 1.45 LBS/FT² CURLEX I (OR APPROVED EQUAL) - 1.75 LBS/FT² CURLEX II (OR APPROVED EQUAL) - 2.25 LBS/FT² PSM (PERMANENT SOIL REINFORCED MAT) - 3.0 LBS/FT²
- * ALL RATINGS ABOVE ARE MINIMUM SHEAR STRENGTH REQUIREMENTS FOR THE MATTING BASED ON UNVEGETATED CONDITIONS.
- ** RIPRAP IN CHANNELS AS REQUIRED PER THE ERODES SPREADSHEET MAY BE REPLACED WITH A COIR MATTING OR SYNTHETIC MATTING AS LONG AS THE MATTING MEETS THE MINIMUM SHEAR STRESS AND VELOCITY REQUIREMENTS FOR EACH INDIVIDUAL DITCH. SHEAR STRESS REQUIREMENTS AND VELOCITY REQUIREMENTS FOR EACH DITCH ARE OUTLINED IN THE DITCH SCHEDULES.

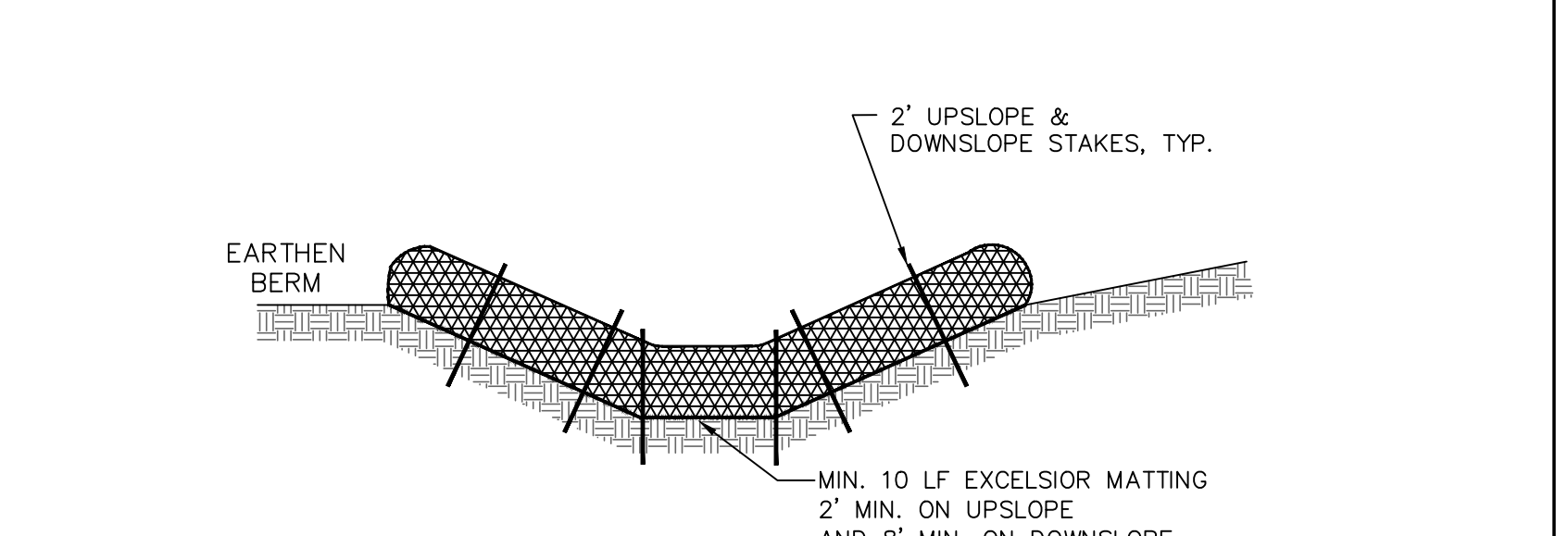
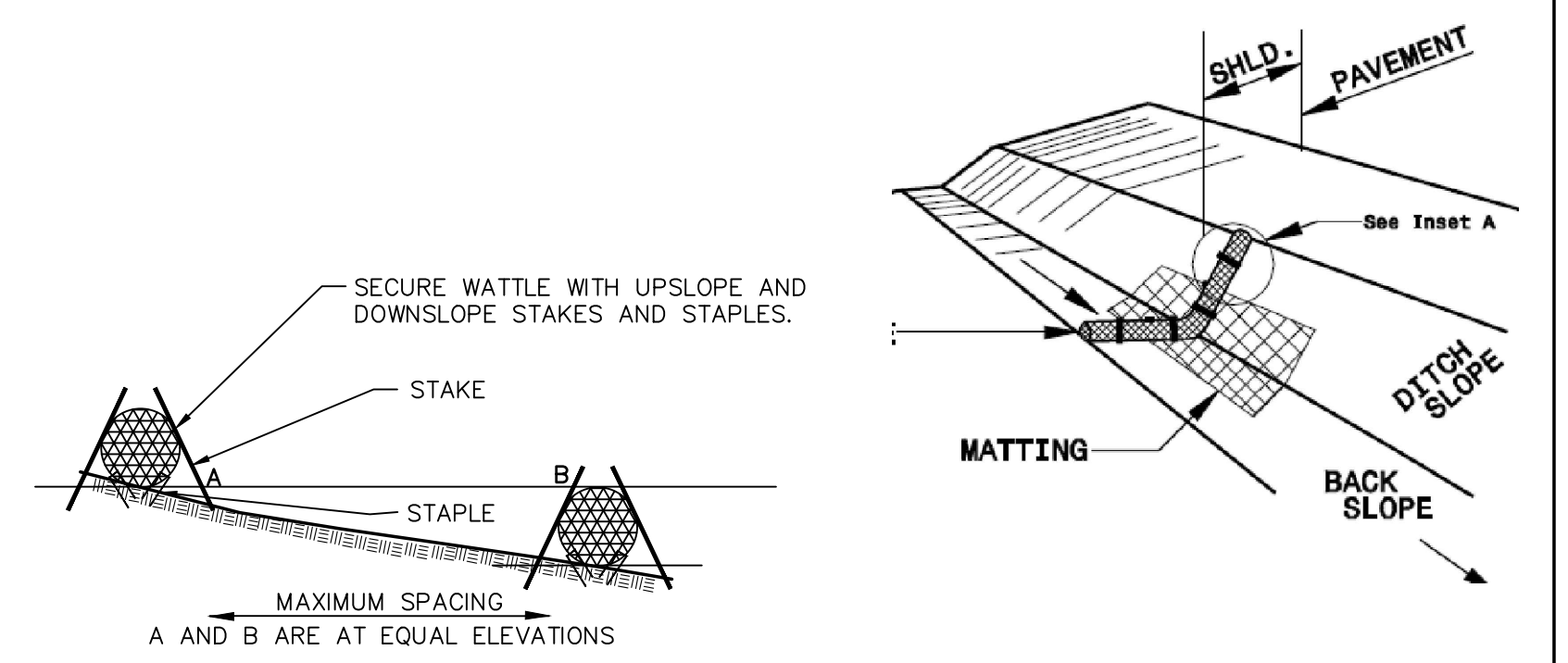
- ### CONSTRUCTION SPECIFICATION
- GRADE THE SURFACE OF INSTALLATION AREAS SO THAT THE GROUND IS SMOOTH AND LOOSE.
 - WHEN SEEDING PRIOR TO INSTALLATION, FOLLOW THE STEPS FOR SEED BED PREPARATION, SOIL AMENDMENTS, AND SEEDING AS NOTED IN "SURFACE STABILIZATION 6.1" (GENERAL NOTES) AND AS PER NCDOT STANDARDS.
 - SPREAD SEED BEFORE EROSION CONTROL MATTING IS INSTALLED.
 - MATting SHALL BE INSTALLED FROM TOP OF BANK TO TOP OF BANK ALONG DITCHES WITHIN DENUEDED LIMITS. MATTING SHALL BE INSTALLED IN ALL DITCHES INDICATED ON PLANS AFTER SOIL IS DISTURBED BY CONSTRUCTION ACTIVITY.
- ### MAINTENANCE
- ALL EROSION CONTROL MATTING SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (0.5) INCH.
 - GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED AND EROSION MUST NOT OCCUR BENEATH THE EROSION CONTROL MATTING.
 - ANY AREAS OF THE EROSION CONTROL MATTING THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
 - IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
 - MONITOR AND REPAIR THE EROSION CONTROL MATTING AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.
 - SEE SHEET 2 FOR ADDITIONAL EROSION CONTROL MAINTENANCE NOTES.

EROSION CONTROL MATTING NOT TO SCALE



- ### CONSTRUCTION SPECIFICATIONS:
- CONTRACTOR SHALL REFERENCE NCDOT DRIVEWAY PERMITS FOR ADDITIONAL TEMPORARY CONSTRUCTION ENTRANCE INSTALLATION REQUIREMENTS
 - CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
 - PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT OUT.
 - PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
 - USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.
 - CONTRACTOR SHALL INSTALL TEMPORARY CULVERTS WHERE REQUIRED PER NCDOT DRIVEWAY PERMITS IN ORDER TO MAINTAIN POSITIVE DRAINAGE.
- ### MAINTENANCE:
- MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP-DRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT IF NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

CONSTRUCTION ENTRANCE NOT TO SCALE

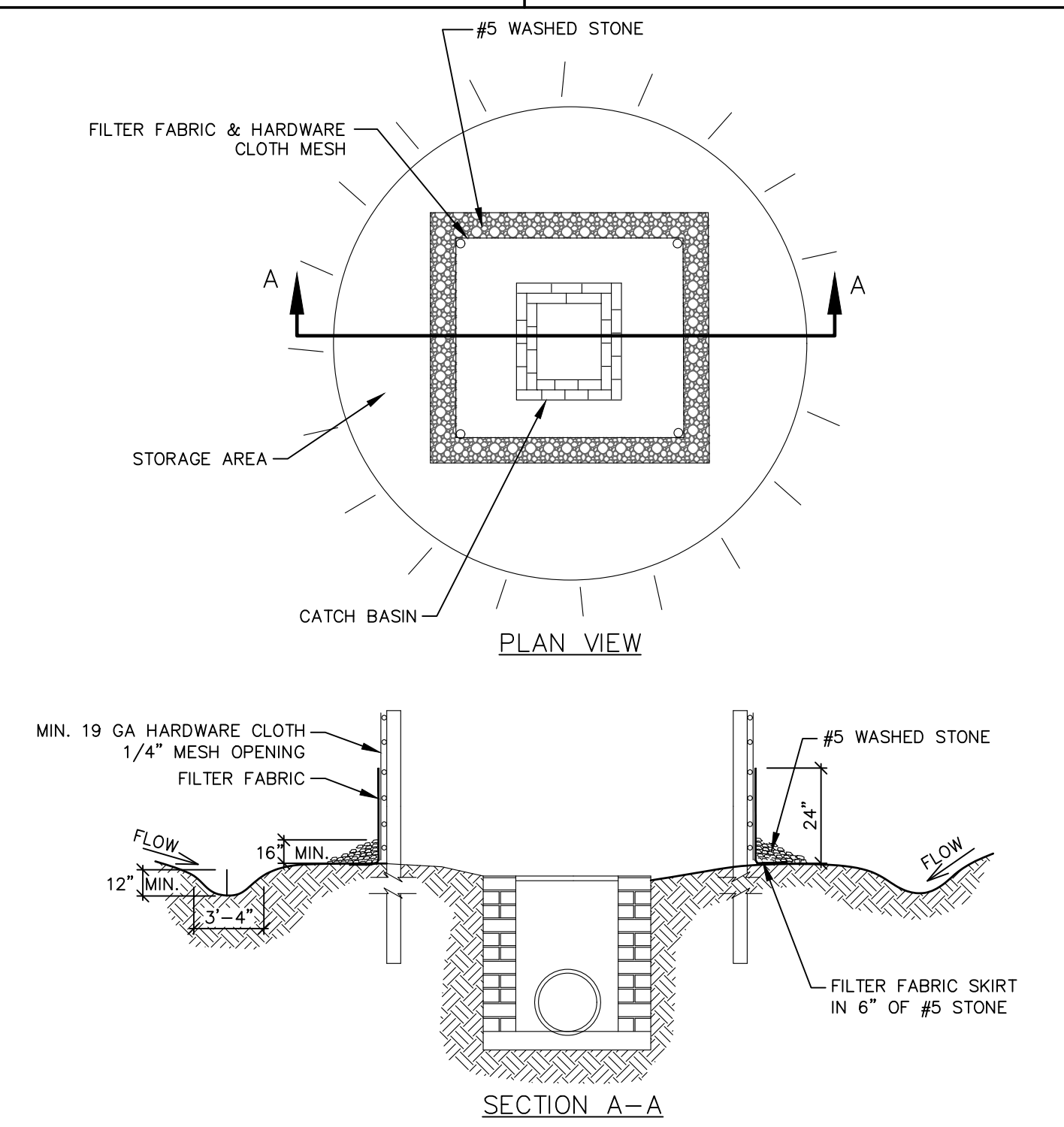


- ### NOTES:
- USE MINIMUM 18" DIA. STRAW WATTLE. 20" WATTLES ARE ALSO SPECIFIED.
 - USE 2"x2" WOODEN STAKES 2'-FT IN LENGTH ON THE UPSLOPE AND DOWNSLOPE.
 - AT AN ANGLE TO WEDGE THE WATTLE TO THE BOTTOM OF THE SWALE. STAPLE ON BOTH SIDES OF THE WATTLE TO SECURE IT TO THE BOTTOM OF THE SWALE.
 - ENSURE THAT MAXIMUM SPACING BETWEEN WATTLES PLACES THE TOP OF THE UPSLOPE WATTLE AT THE SAME ELEVATION AS THE DOWNSLOPE WATTLE (SEE DIAGRAM ABOVE).
- ### MAINTENANCE NOTES:
- INSPECT WATTLES AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. REPAIR ALL DAMAGE IMMEDIATELY.

STRAW WATTLES NOT TO SCALE

- ### NOTES:
- WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES W/12" STAY SPACING.
 - FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
 - STEEL POST SHALL BE 5" 0" IN HEIGHT AND BE OF SELF FASTENER ANGLE STEEL TYPE.
 - SILT FENCE SHALL BE INSTALLED ON ROW OR TWS ALONG DOWNHILL SIDE OF EASEMENT. SILT FENCE IS OFFSET FROM ROW OR TWS ON EROSION CONTROL PLAN SHEETS FOR DISPLAY PURPOSES ONLY.
 - SYNTHETIC FILTER FABRIC OF AT LEAST 95% WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6461.
- ### MAINTENANCE NOTES:
- INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
 - SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
 - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
 - ENSURE THAT THE IMPOUNDED WATER DOES NOT EXCEED 1.5 FT AT ANY POINT ALONG THE SILT FENCE.
 - REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

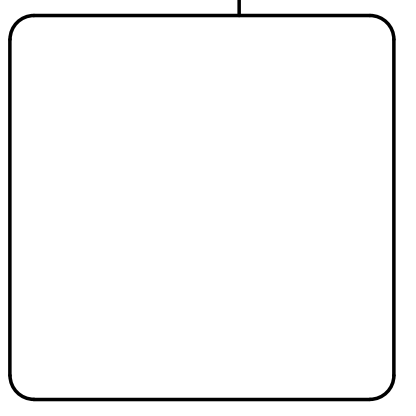
GUIDELINES FOR TEMPORARY SILT FENCE DETAIL NOT TO SCALE



- ### GENERAL NOTES:
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
 - REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
 - THE STRUCTURE SHALL BE INSPECTED AFTER EACH STORM EVENT BY THE CONTRACTOR OR HIS AGENT AND REPAIRS MADE AS NECESSARY.
 - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
 - THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE BASIN HAS BEEN PROPERLY STABILIZED.
 - SILT FENCE INSTALLATION SHALL BE IN ACCORDANCE WITH TEMPORARY SILT FENCE DETAIL.

TEMPORARY INLET PROTECTION CLOTH AND GRAVEL NOT TO SCALE

REV.	DESCRIPTION	DATE
F	ADDRESSED COMMENTS FROM UCPW	01/03/2022
E	ADDRESSED COMMENTS FROM UCPW	11/19/2021
D	ADDRESSED COMMENTS FROM UCPW	10/14/2021
C	ADDRESSED COMMENTS FROM NCDOT POST-CONSTRUCTION STORMWATER	10/11/2021
B	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	09/10/2021
A	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	08/04/2021



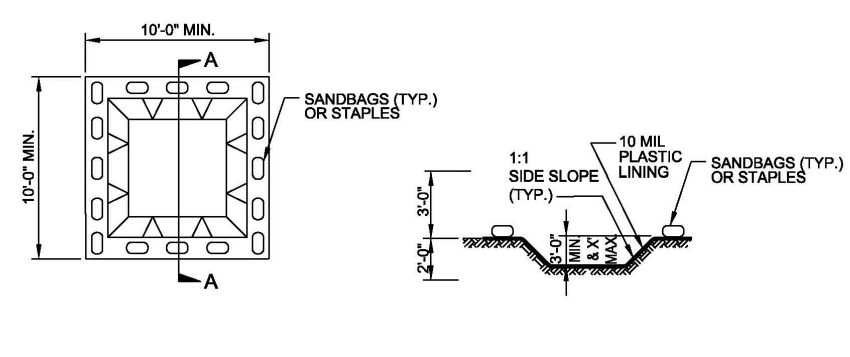
BELLE MAR RESIDENTIAL
0 OLD MILL ROAD
TOWN OF WEDDINGTON, NC

EROSION CONTROL DETAILS

DATE:	MAY 2021	SCALE:	C8.0
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DRAWN:	JPM	VERTICAL:	N/A
DESIGNED:	JPM	PROJ. MGR.:	PMN
CHECKED:	PMN		
STATUS:	PRELIMINARY DRAWING NOT FOR CONSTRUCTION		

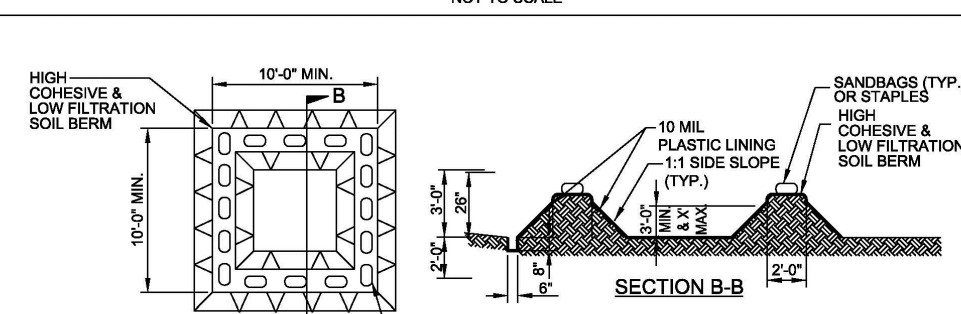
WITH LINER, NO GRAVEL APPROACH

ON-SITE CONCRETE WASHOUT STRUCTURE WITH LINER



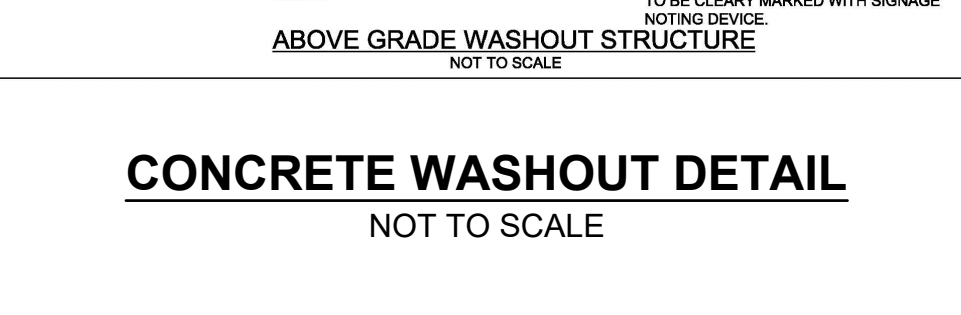
SECTION A-A
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURE'S CAPACITY.

BELOW GRADE WASHOUT STRUCTURE

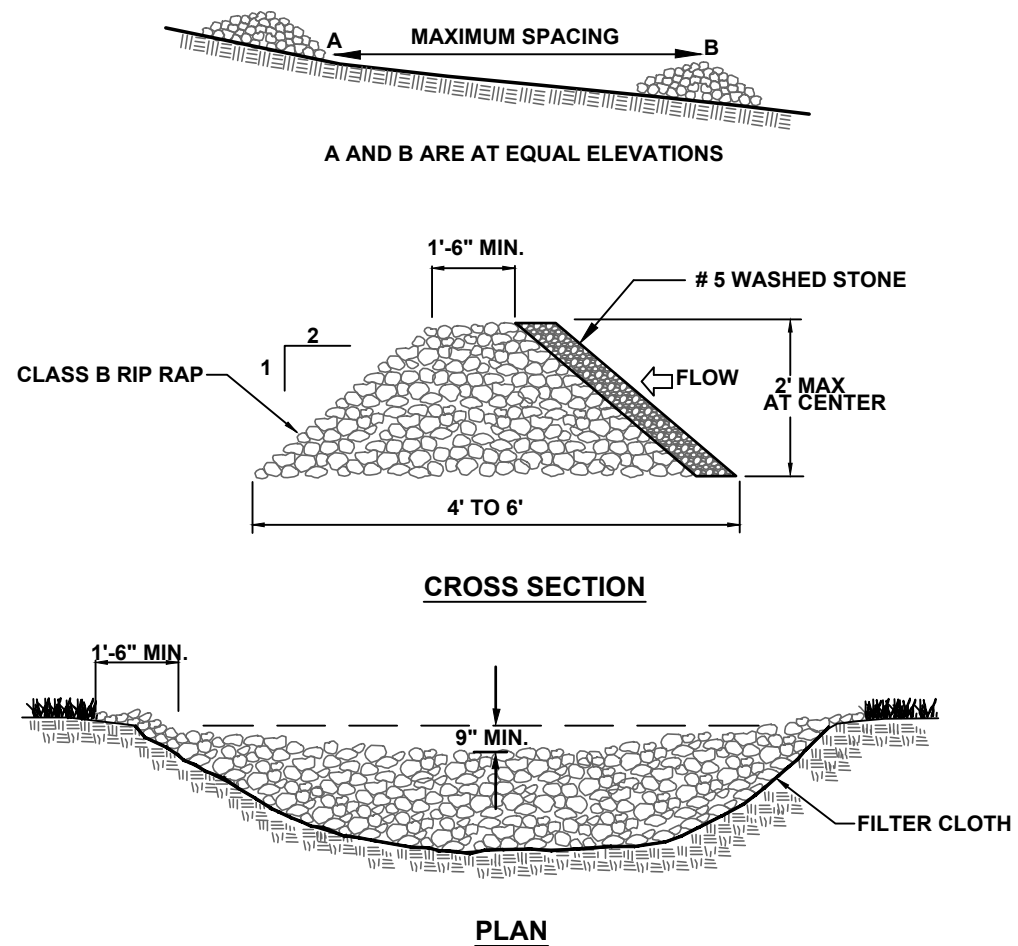


SECTION B-B
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURE'S CAPACITY.

ABOVE GRADE WASHOUT STRUCTURE



CONCRETE WASHOUT DETAIL
NOT TO SCALE

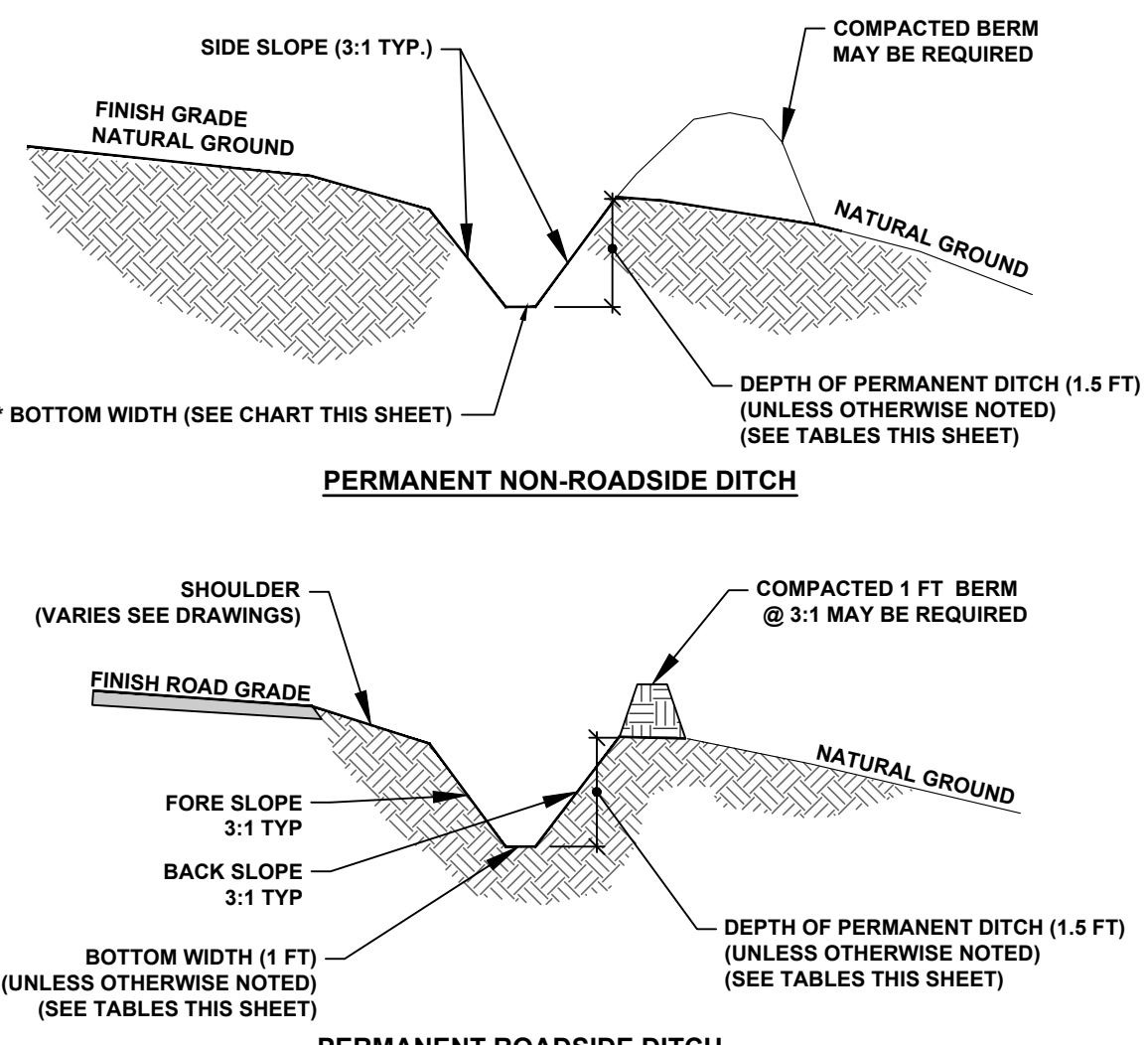


GENERAL NOTES:

- 1. RIP RAP SIZE TO BE DESIGNED BY ENGINEER.
2. CHECK DAMS MAY BE USED IN SLOPING DITCHES OR CHANNELS TO SLOW VELOCITY OR TO CREATE SEDIMENT TRAPS.
3. ENSURE THAT MAXIMUM SPACING BETWEEN DAMS PLACES THE TOE OF THE UPSTREAM DAM AT THE SAME ELEVATION AS THE DOWNSTREAM DAM (SEE DIAGRAM ABOVE).

Maintenance: Inspect check dams and channels at least weekly and after each significant (1/2 inch or greater) rainfall event and repair immediately. Clean out sediment, straw, limbs, or other debris that could clog the channel when needed.

TEMPORARY ROCK CHECK DAM
NOT TO SCALE



- NOTE:
1. DITCH SHOULD HAVE MINIMUM LONGITUDINAL SLOPE OF 0.5%.
2. SILT FENCE MAY BE REQUIRED BEHIND BERM.
3. STABILIZE, SEED, AND MULCH IMMEDIATELY AFTER INSTALLATION.
4. LINERS SELECTED SHALL MEET OR EXCEED REQUIRED SHEAR STRESS SHOWN IN TABLE BELOW.

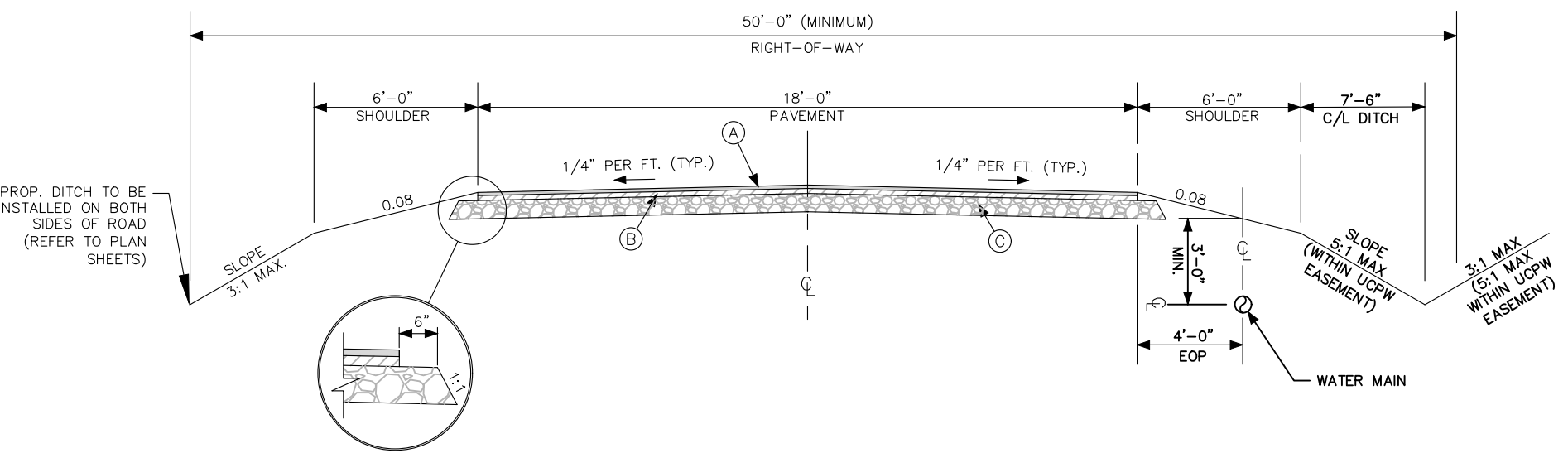
TEMPORARY DITCH MAINTENANCE NOTE: INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.

Table with columns: CWD#1, CWD#2A, CWD#2B, TDD#1, TDD#2, TDD#3, TDD#4, TDD#5, TDD#6, TDD#7, TDD#8. Rows include Depth (FT), Top Width (FT), Bottom Width (FT), Side Slope (H:V), Channel Lining Type, Shear Stress (PSF), Slope (FT/FT), Area (ACRES), and Length (FT).

Table with columns: PD#1, PD#2, PD#3, PD#4, PD#5, PD#6, PD#7, PD#8, PD#9, PD#10. Rows include Depth (FT), Top Width (FT), Bottom Width (FT), Side Slope (H:V), Channel Lining Type, Shear Stress (PSF), Slope (FT/FT), Area (ACRES), and Length (FT).

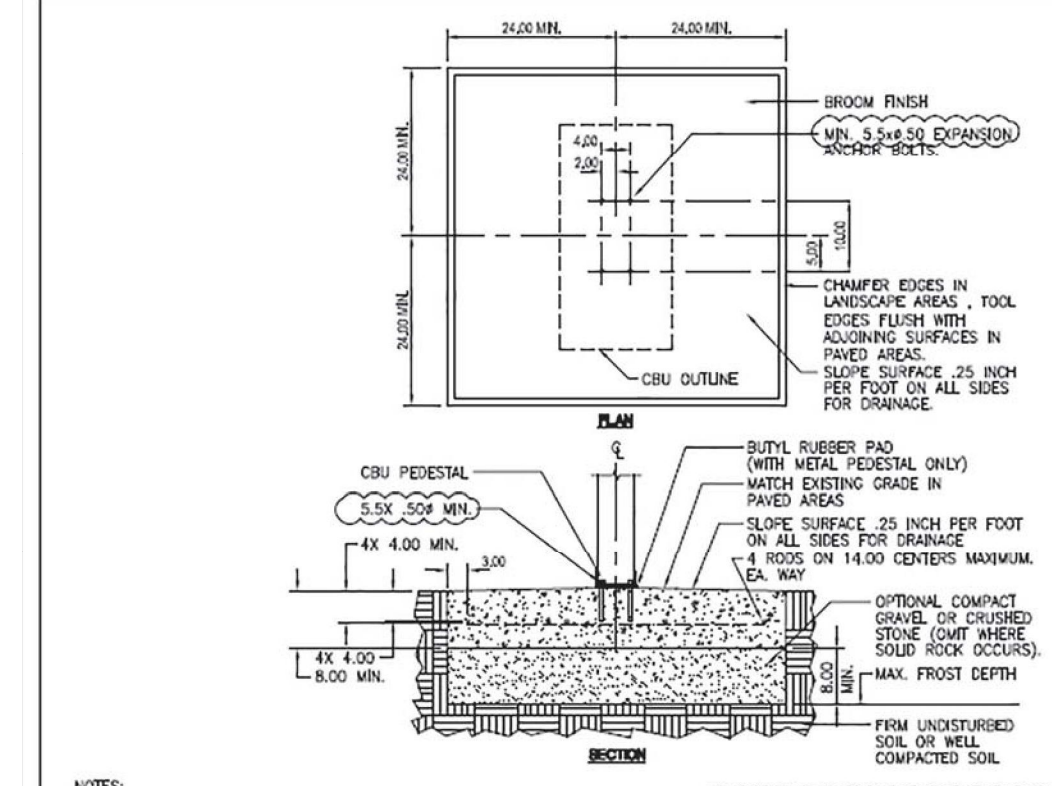
TEMPORARY DIVERSION DITCH (TDD) / CLEAN WATER DITCH (CWD)
NOT TO SCALE

PERMANENT DITCH (PD)
NOT TO SCALE

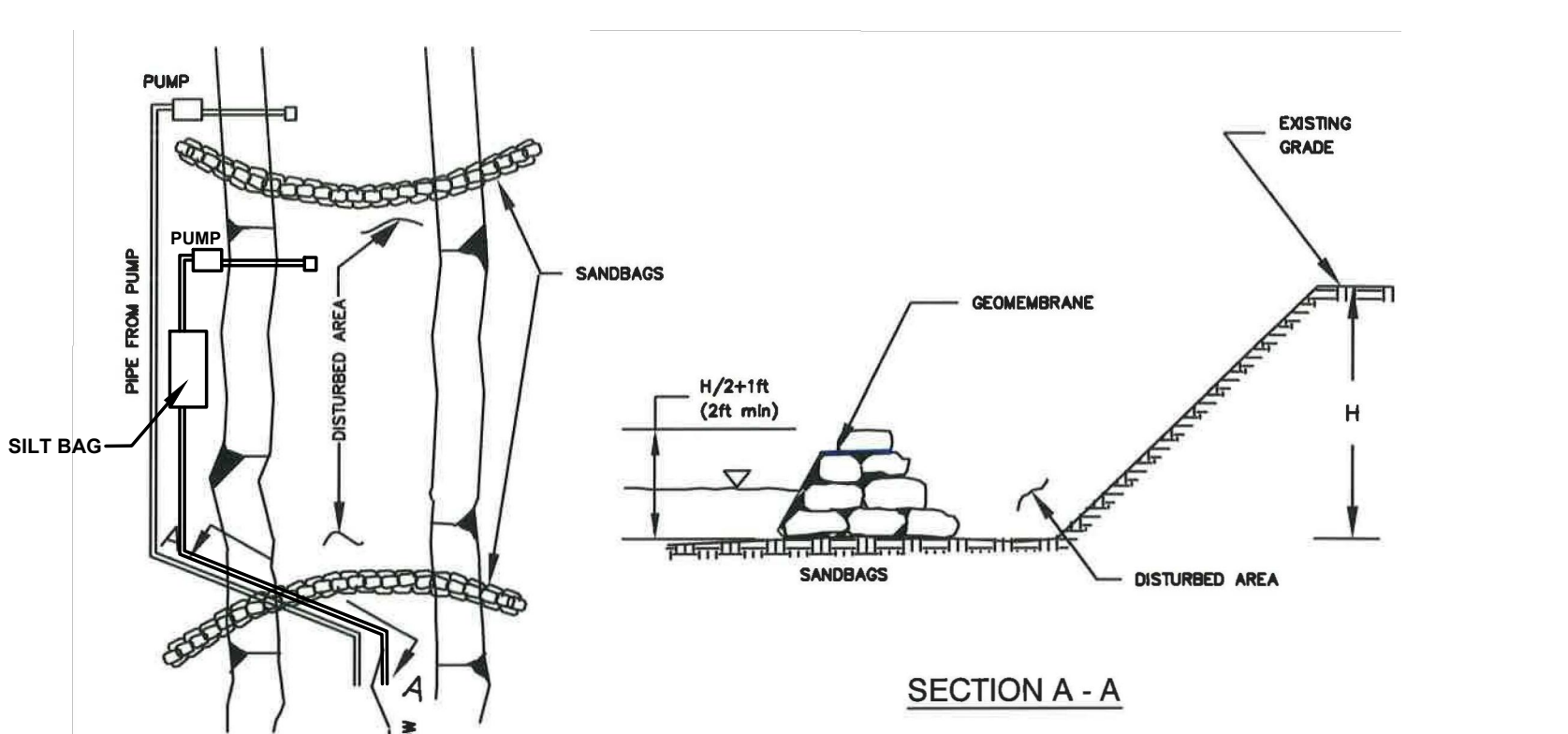


- NOTES:
1. SUBGRADE SHALL BE COMPACTED TO A DENSITY OF 100% IN ACCORDANCE WITH ASPHT-TP9 AND NCDOT SPECIFICATIONS SECTION 500.
2. AGGREGATE BASE COURSE SHALL BE COMPACTED TO A DENSITY OF 100%.
3. ASPHALT COMPACTION SHALL BE IN ACCORDANCE WITH NCDOT SECTION 610.
4. IF REQUIRED BY THE TOWN, TESTS SHALL BE CONDUCTED BY AN INDEPENDENT TESTING FIRM AT THE DEVELOPER'S EXPENSE.
5. FINAL LIFT OF PAVEMENT SHALL NOT BE PLACED UNTIL AFTER 80% OF HOME SITES ARE DEVELOPED. THE FINAL LIFT OF PAVEMENT SHALL NOT BE PLACED FOR STREETS THAT WILL BE USED TO ACCESS FUTURE PHASES UNTIL THOSE PHASES REACH 80% BUILD-OUT.

TYPICAL SECTION
RESIDENTIAL LOCAL STREET W/ SHOULDER AND DITCH
(FROM TOWN OF WEDDINGTON STD NO. 100 (SEPT 2014))



NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS. CONTAIN 4% MIN. - 6% MAX. AIR ENTRAINMENT AND NUMBER 40-301.
2. EXPANSION JOINTS SHALL BE EQUIVALENT TO THE FOLLOWING:
a. REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615, GRADE 60.
b. REINFORCING STEEL BARS SHALL BE 1/2" DIAMETER x 3'-1/2" LONG.
c. REINFORCING STEEL BARS SHALL BE 1/2" DIAMETER x 3'-1/2" LONG.

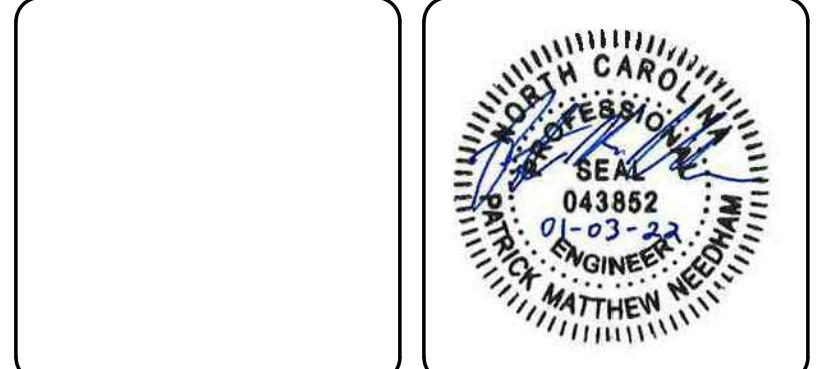


- I. DESCRIPTION
THE WORK SHALL CONSIST OF INSTALLING A PUMP AROUND WHEN CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN THE STREAM CHANNEL.
II. MATERIAL SPECIFICATIONS
SANDBAGS: SANDBAGS SHALL CONSIST OF MATERIALS WHICH ARE RESISTANT TO ULTRAVIOLET RADIATION, TEARING AND PUNCTURE, AND WOVEN TIGHTLY ENOUGH TO PREVENT LEAKAGE OF FILL MATERIAL (I.E., SAND, FINE GRAVEL, ETC.).
III. CONSTRUCTION REQUIREMENTS
1. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF WORK.
2. THE HEIGHT OF THE SANDBAGS SHALL BE AS INDICATED IN SECTION A-A. THE SANDBAGS SHALL BE PLACED ON A SMOOTH PREPARED SURFACE.
3. ALL EXCAVATED MATERIALS SHALL BE DISPOSED OFF OUTSIDE THE 100 YEAR FLOOD PLAIN UNLESS APPROVED ON THE PLANS BY THE WRA.
4. ALL DETERIORATION OF THE CONSTRUCTION AREA SHALL BE PUMPED TO A WRA APPROVED DEVICE.
5. THE PUMP SHALL BE OF SUFFICIENT SIZE TO CONVEY NORMAL STREAM FLOW.
6. SEDIMENT CONTROL DEVICES ARE TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED AND THE INSPECTING AUTHORITY APPROVES THEIR REMOVAL.

- STREAM CROSSING CONSTRUCTION SEQUENCE:
1. CONTRACTOR SHALL SELECT A PROPOSED SIZE AND LOCATION FOR THE SILT BAG AND SEEK APPROVAL FROM NCDOT INSPECTOR PRIOR TO INSTALLATION.
2. INSTALL SILT BAG AS APPROVED BY NCDOT INSPECTOR.
3. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE TO OUTLET DOWNSTREAM OF PROPOSED STREAM WORK BUT WITHIN THE LIMITS OF DISTURBANCE.
4. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
5. PLACE DOWNSTREAM IMPERVIOUS DIKE AND INSTALL PUMPING APPARATUS TO DETERMINE THE ENTRAPPED AREA.
6. INSTALL THE PROPOSED PERMANENT CULVERTS IN ACCORDANCE WITH THE PLANS WHILE MAINTAINING THE PUMP AROUND OPERATION. CONTRACTOR SHALL ENSURE THAT IN-STREAM WORK IS CONDUCTED IN THE DRY AREA.
7. THE PUMP AROUND AREA IS TO BE STABILIZED WITH MATTING AT THE END OF EACH WORK DAY.
8. AFTER INSTALLATION OF THE CULVERTS IS COMPLETE, ENSURE SITE IS STABLE AND EXCAVATE ANY ACCUMULATED SILT BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE (DOWNSTREAM IMPERVIOUS DIKE FIRST).
9. DIVERT STREAM FLOW THROUGH THE CONSTRUCTED CULVERT.
10. REMOVE SILT BAG AND PROPERLY DISPOSE OF CAPTURED SEDIMENT AND SILT BAG. STABILIZE DISTURBED AREAS WITH SEED AND MULCH.
11. BEGIN FILL OF ROADWAY BED.
12. CONTRACTOR TO ENSURE ALL WORK AND DISTURBANCE FALLS WITH THE LIMITS OF DISTURBANCE.

STREAM PUMP AROUND
NOT TO SCALE

Table with columns: REV. NO., DATE, DESCRIPTIONS, REVISIONS.

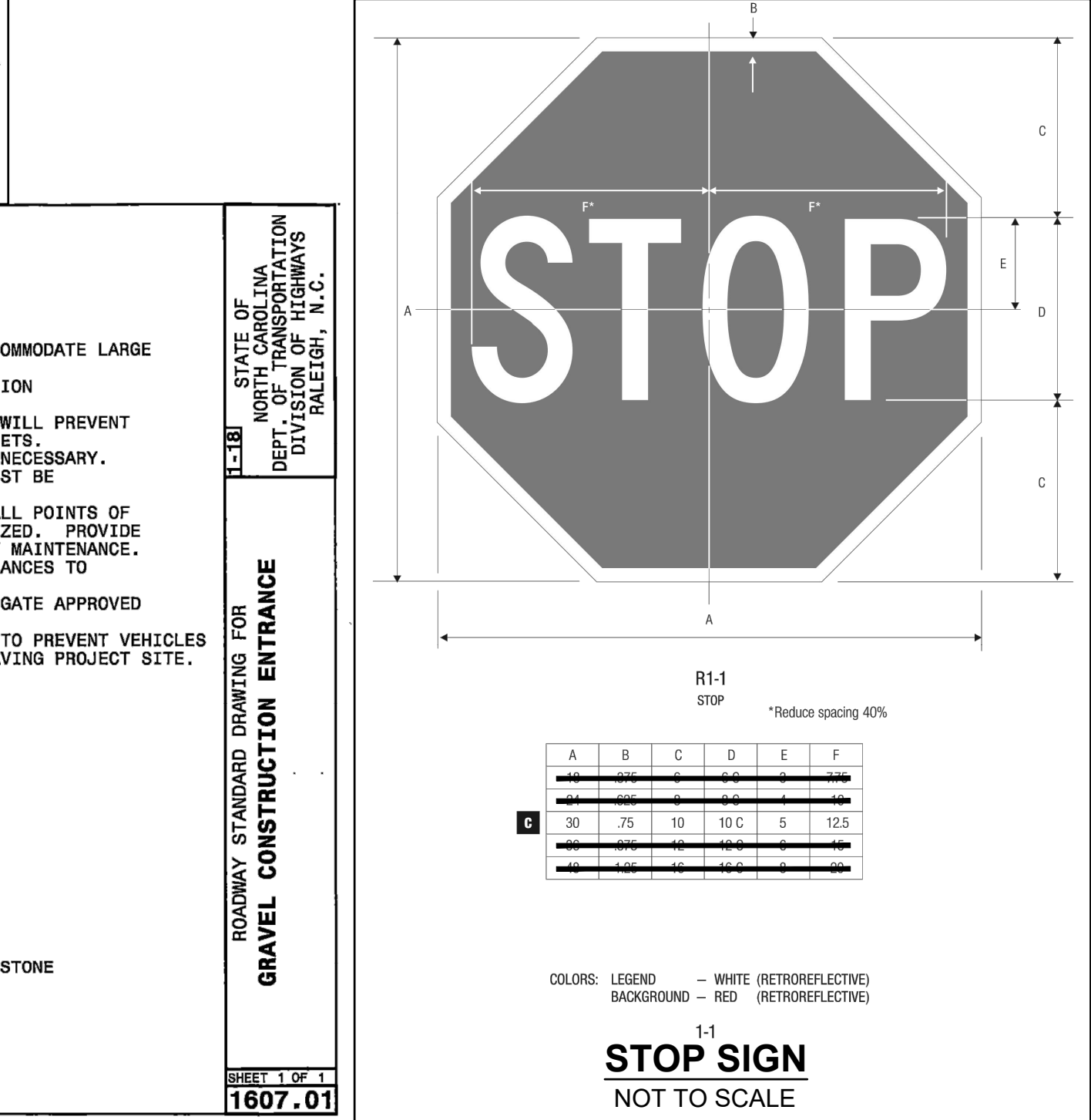
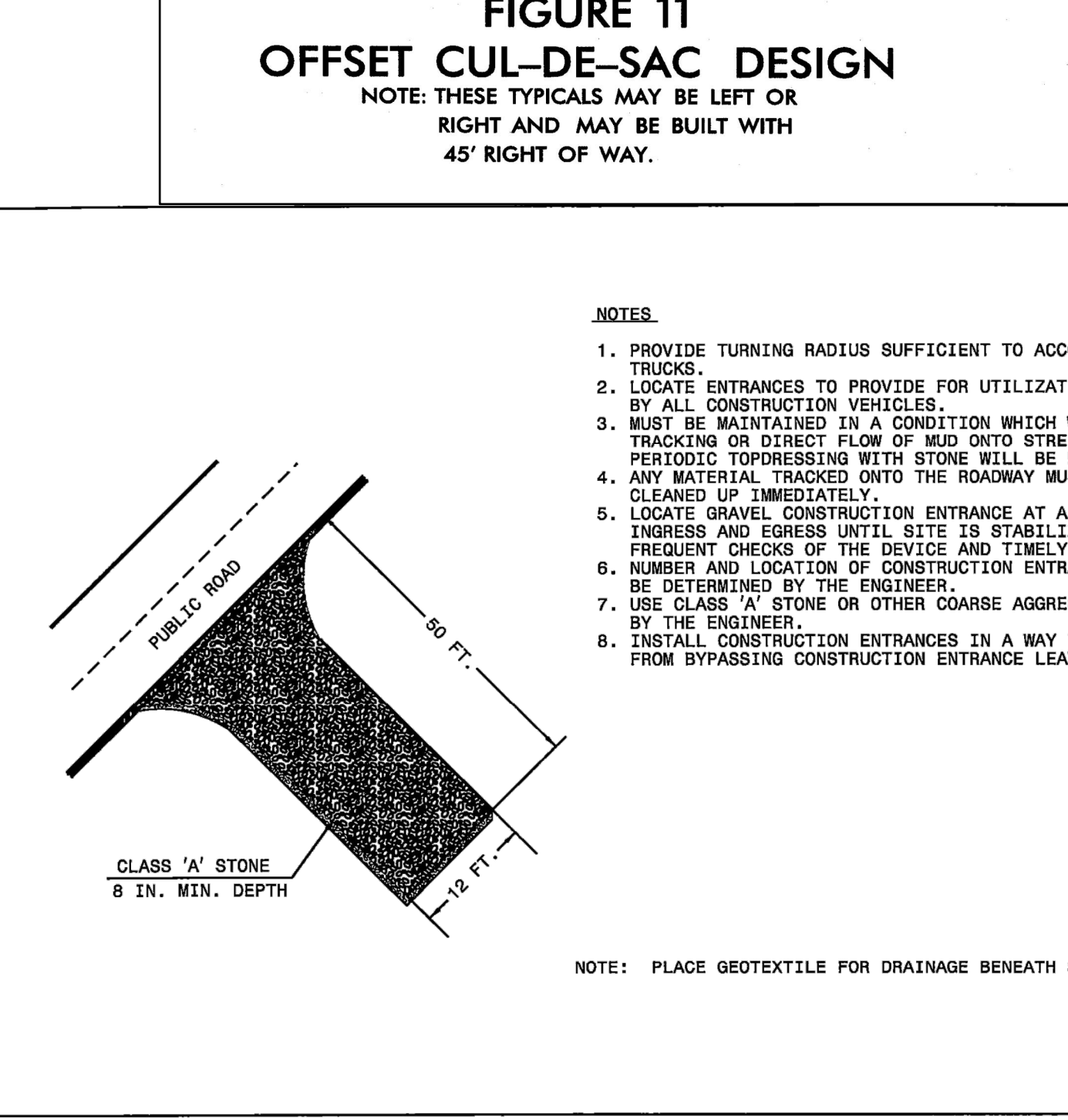
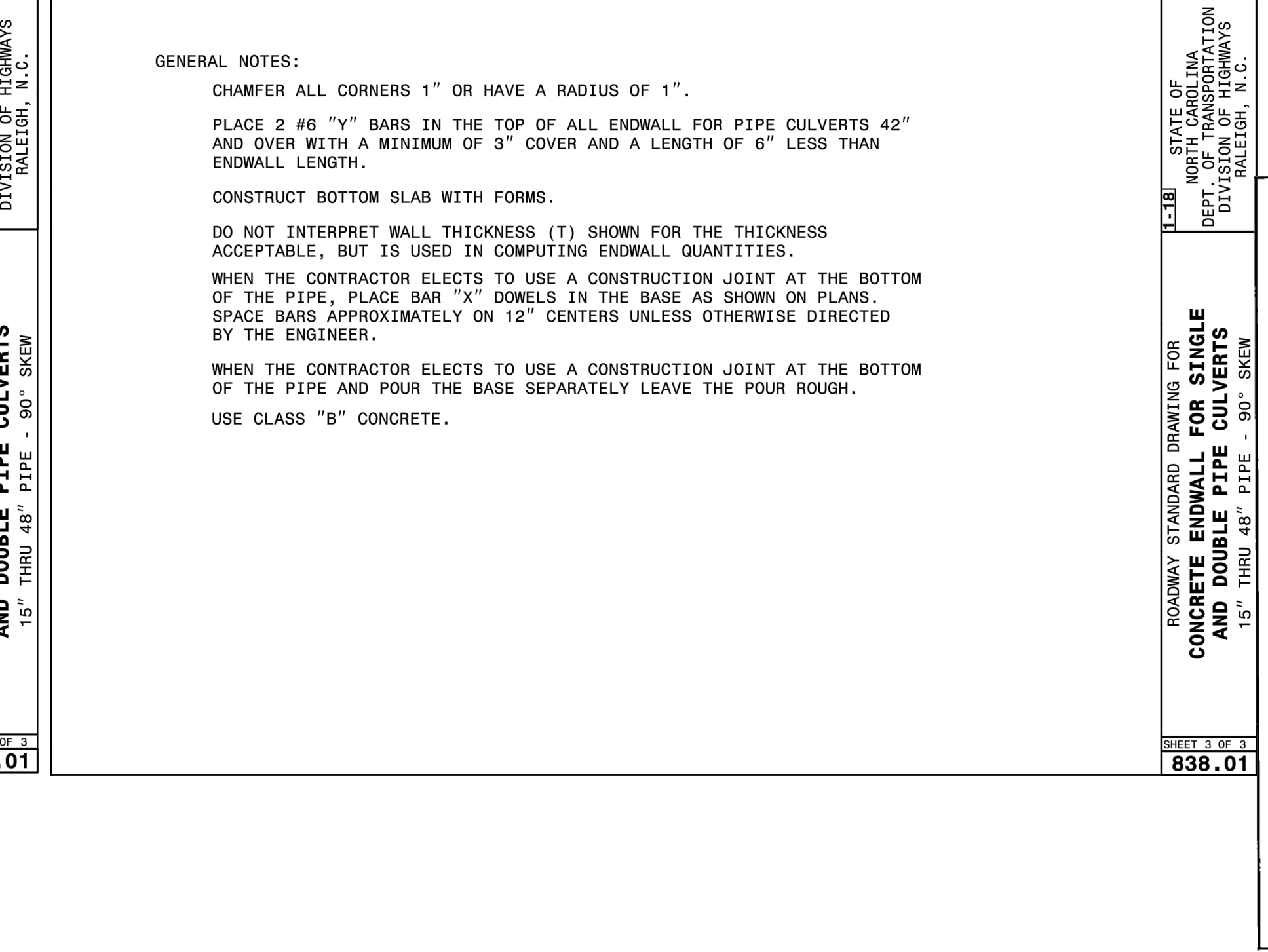
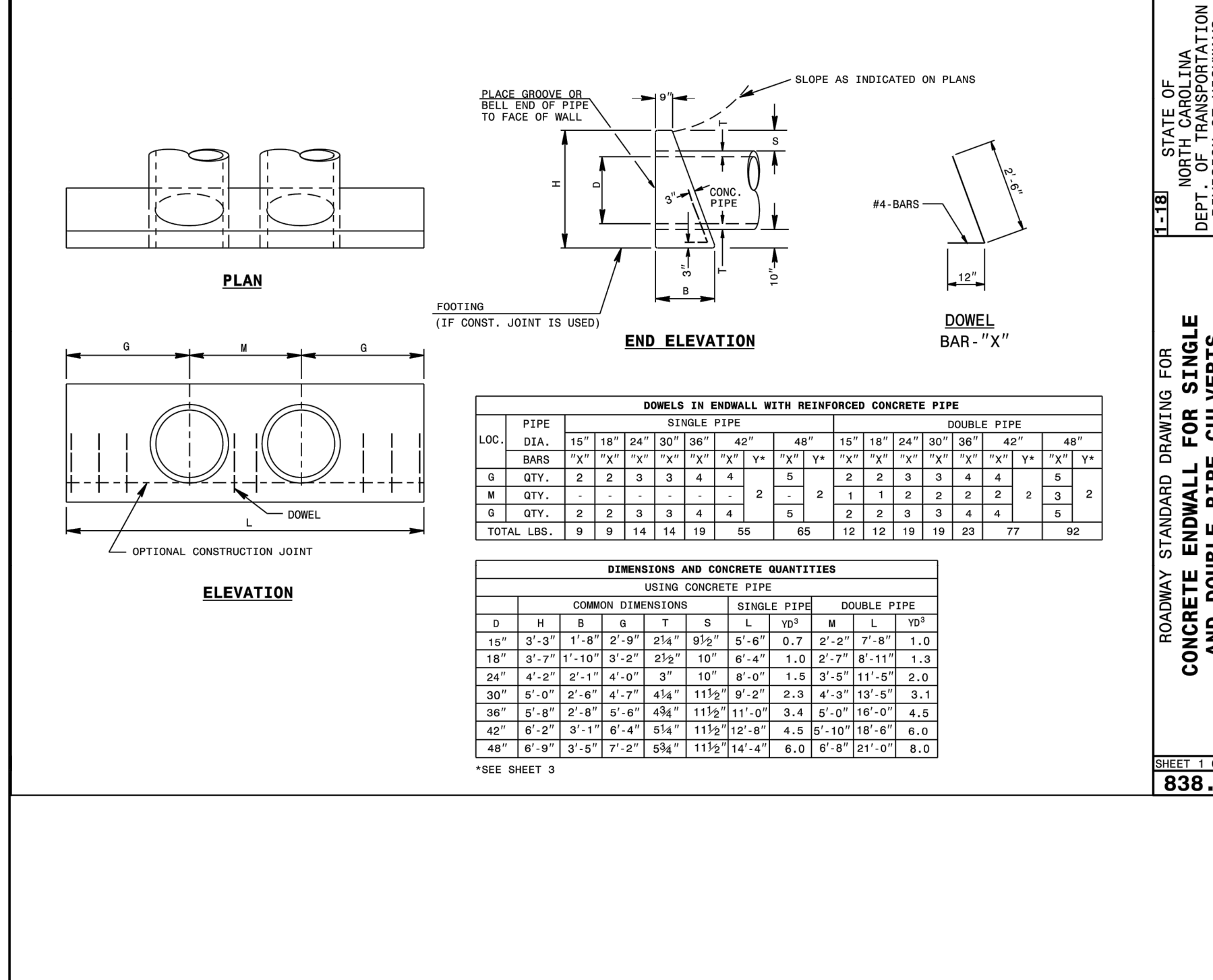
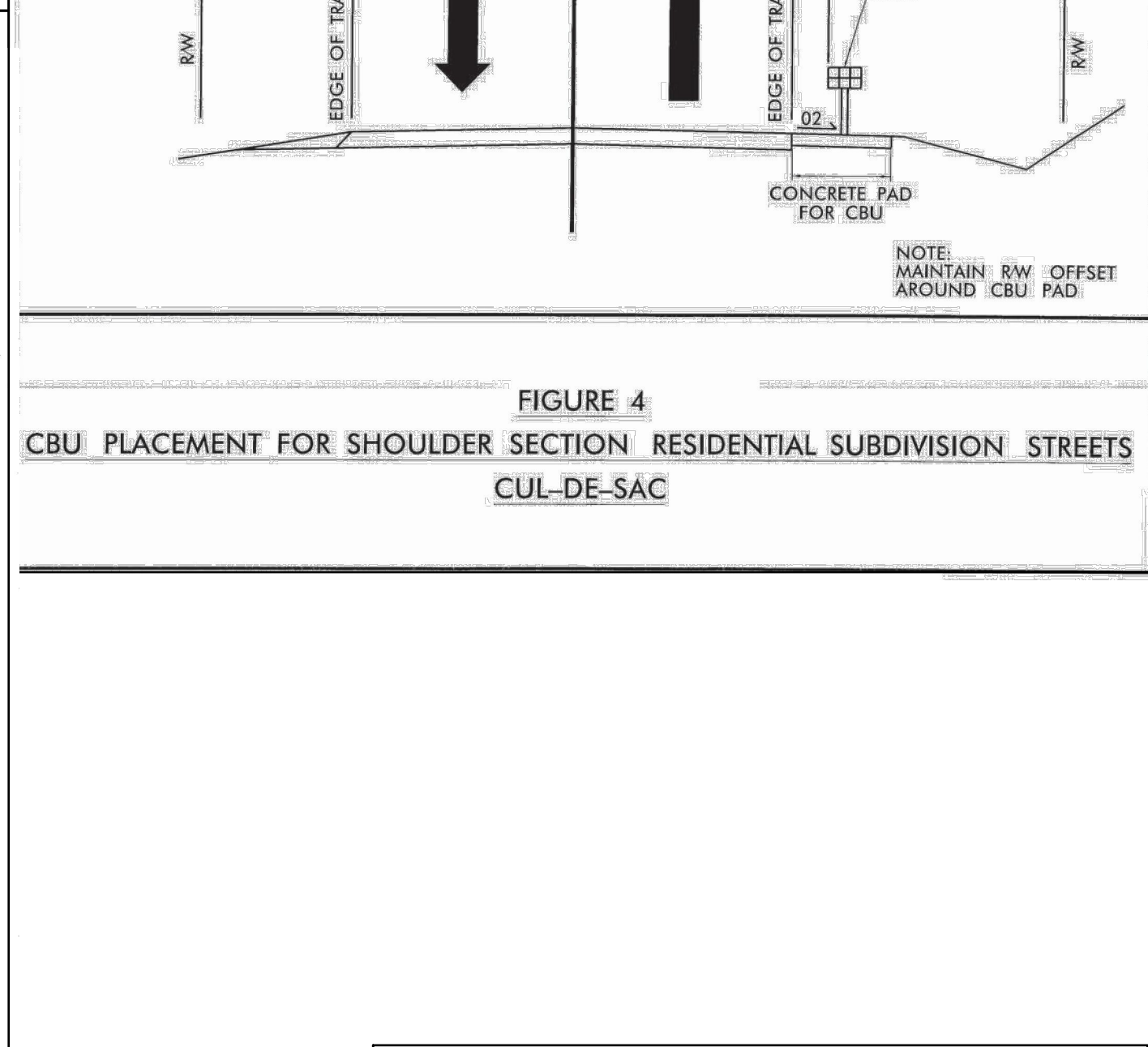
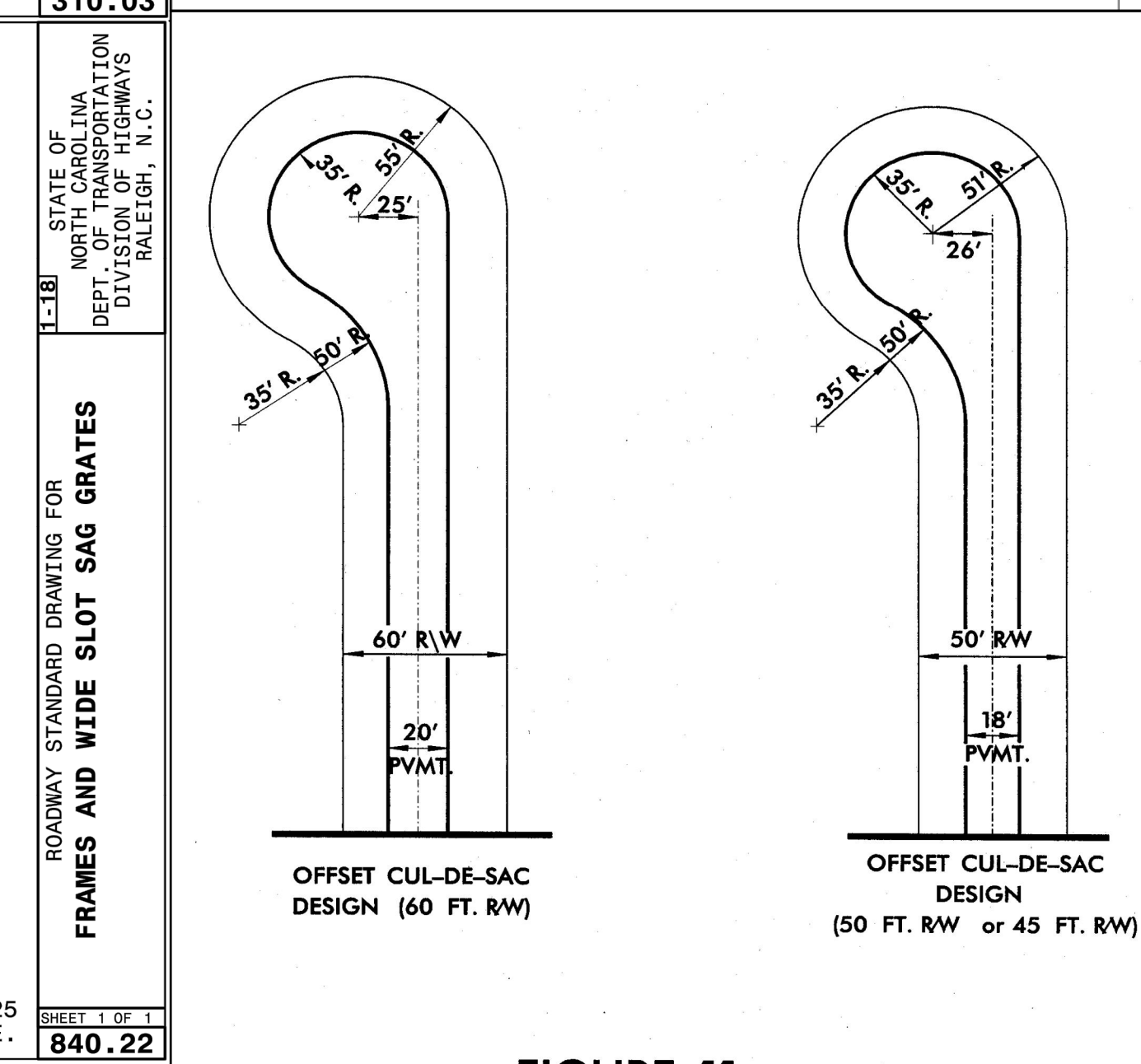
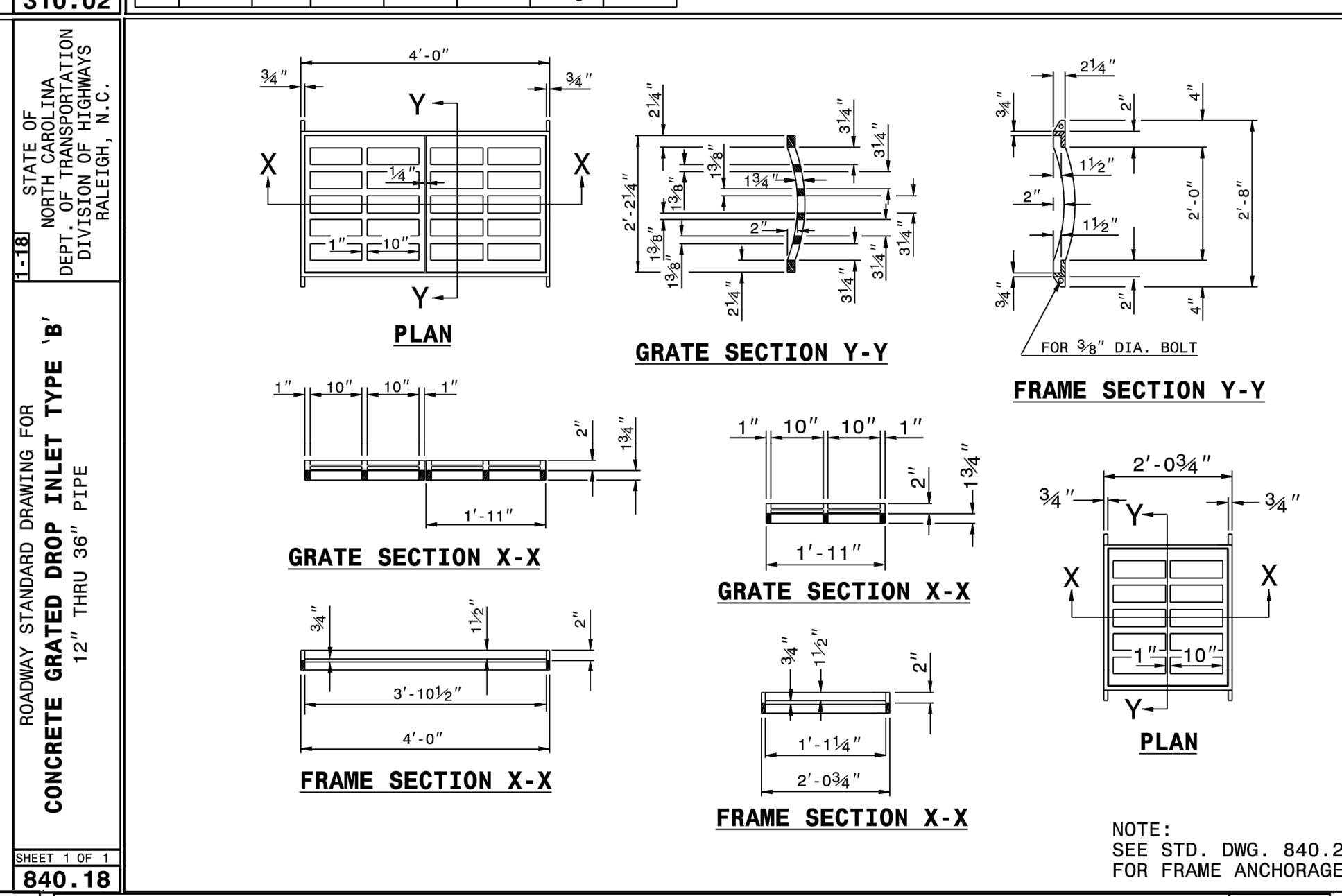
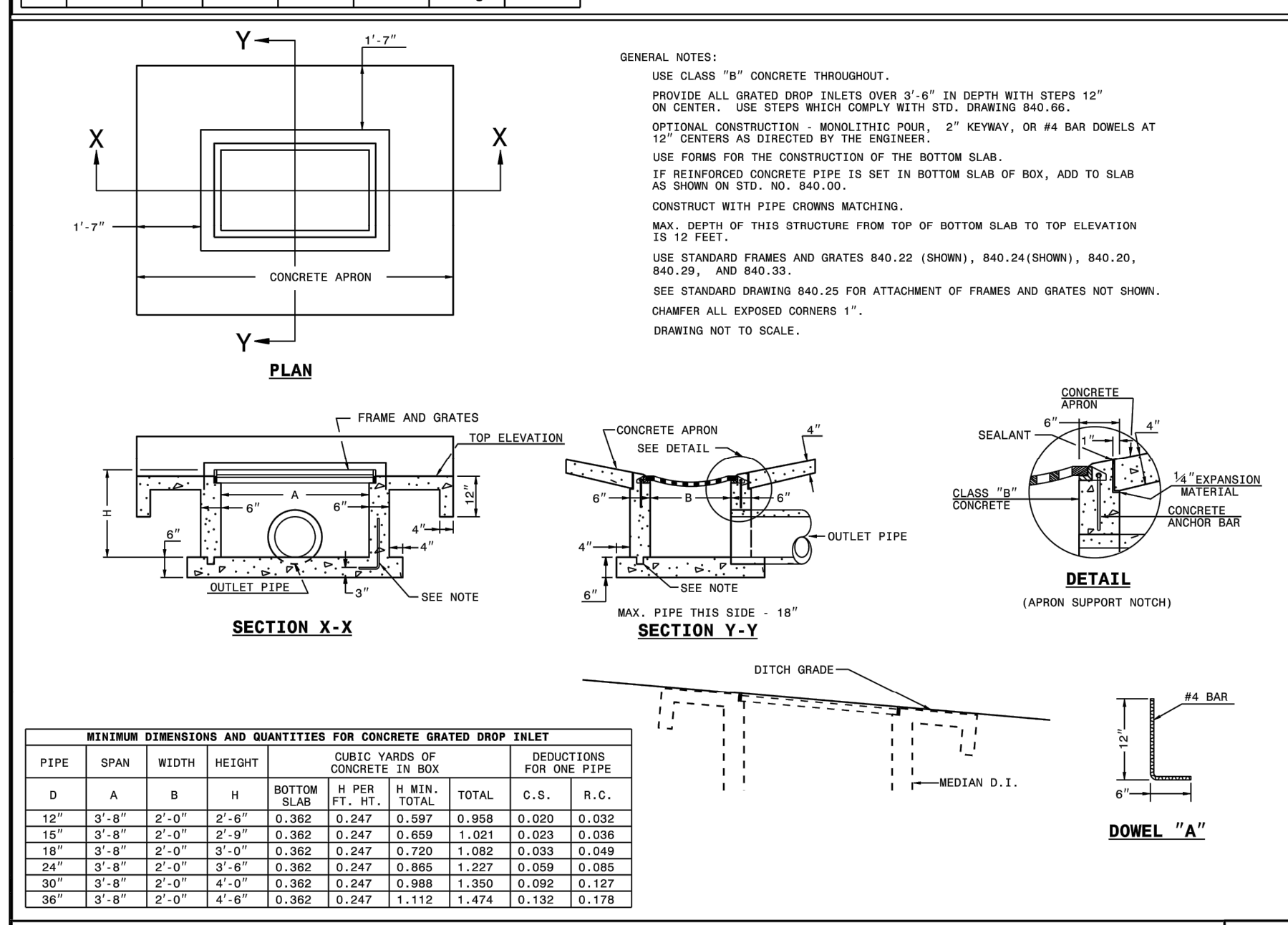
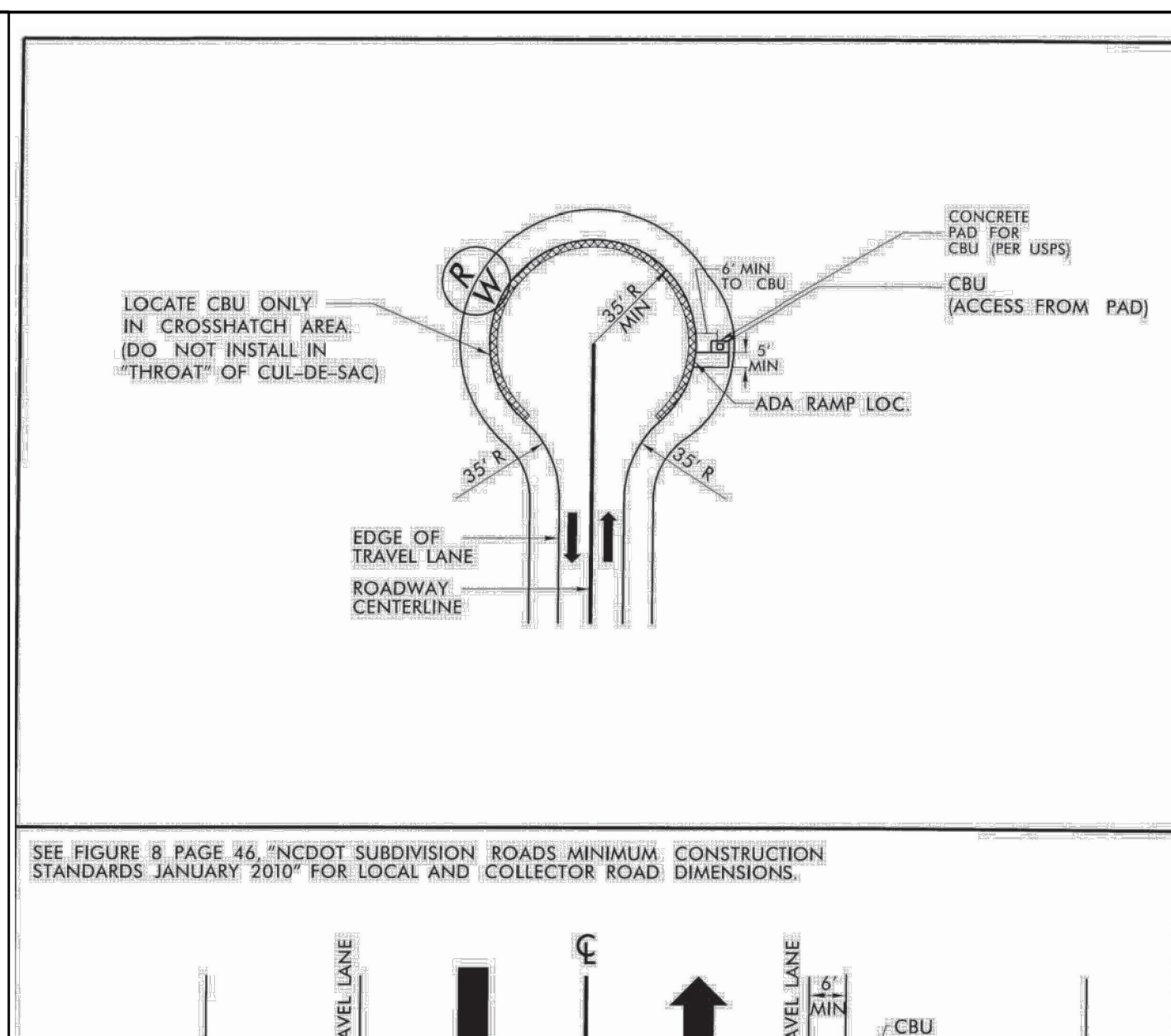
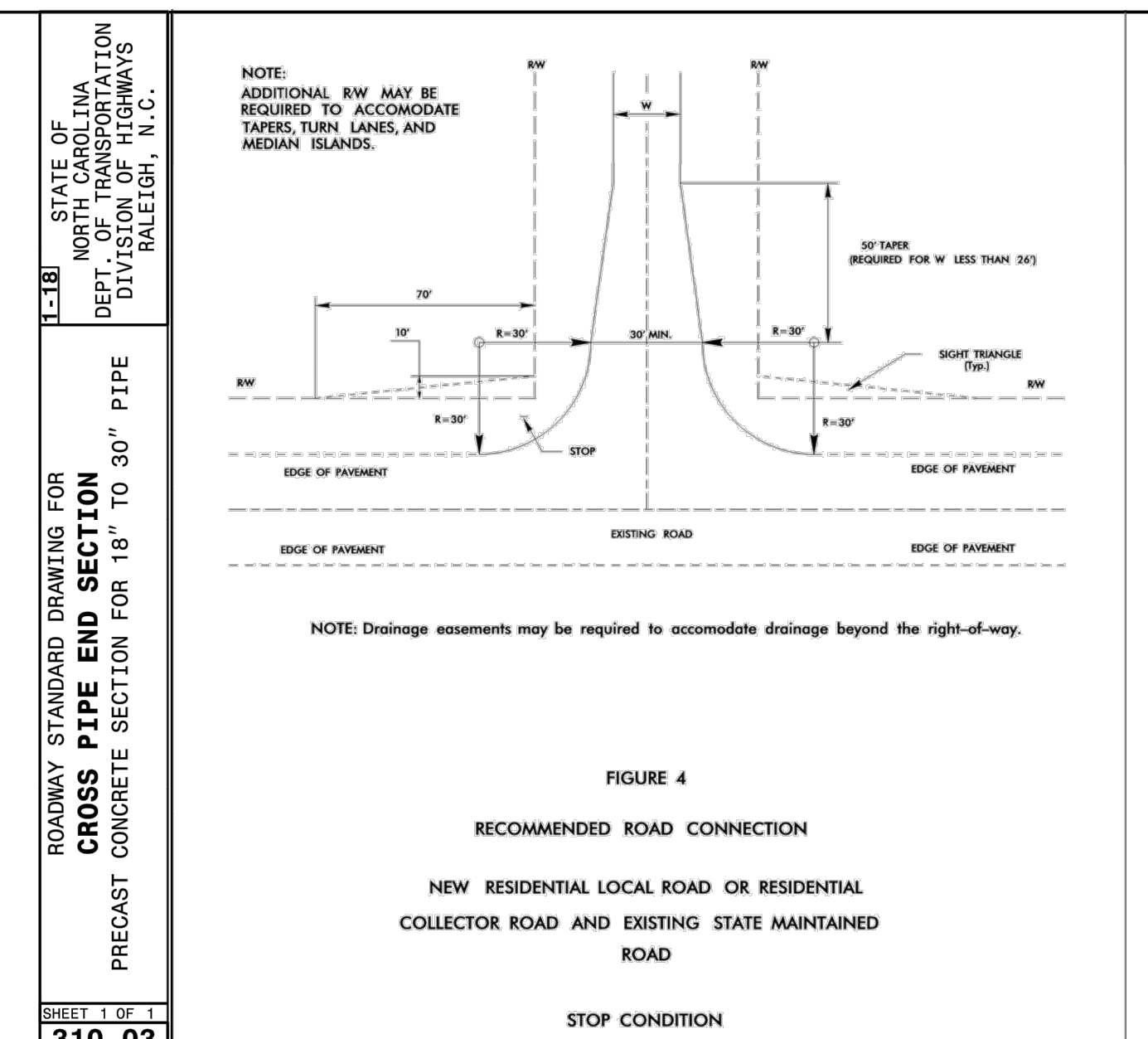
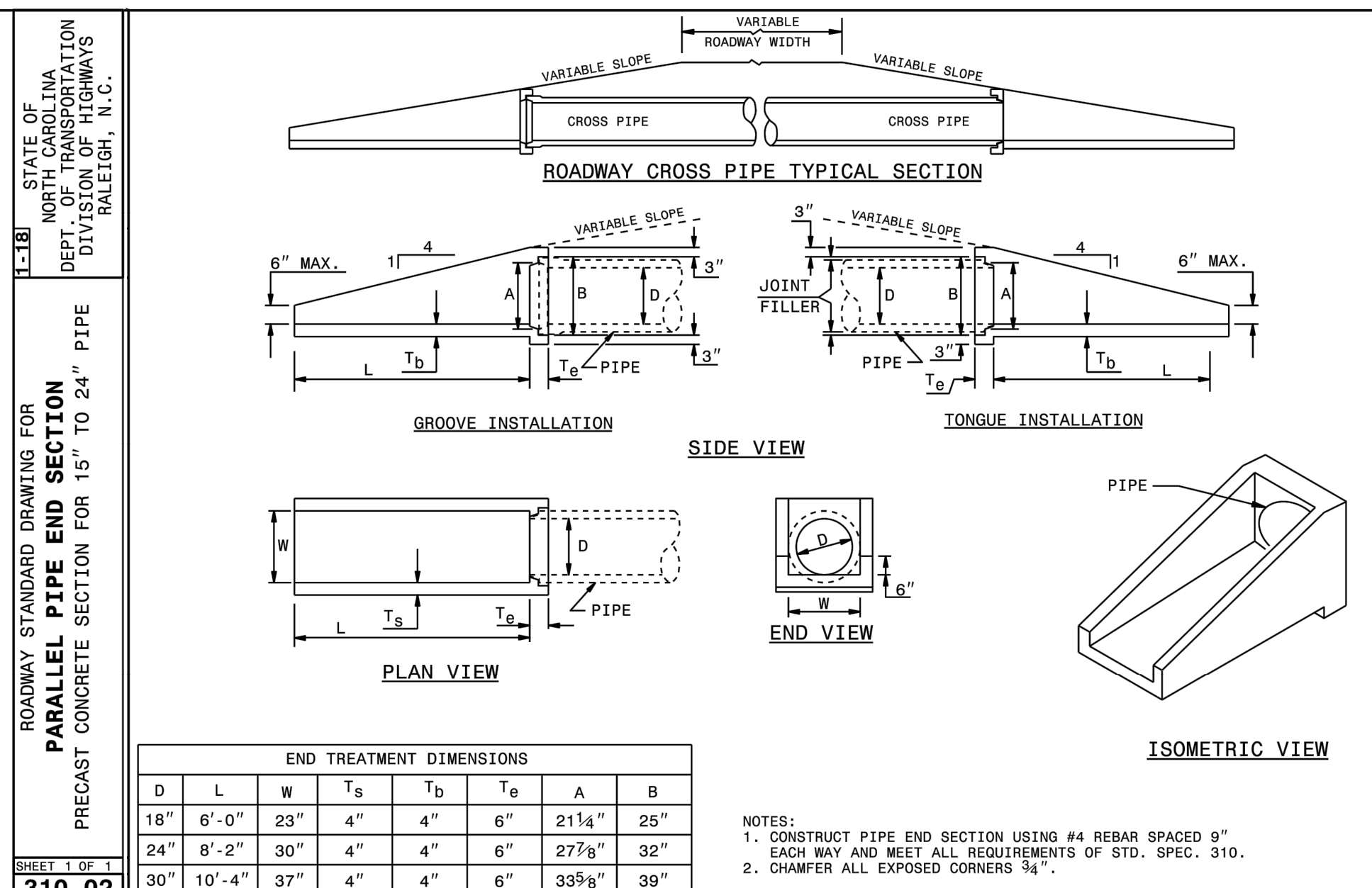
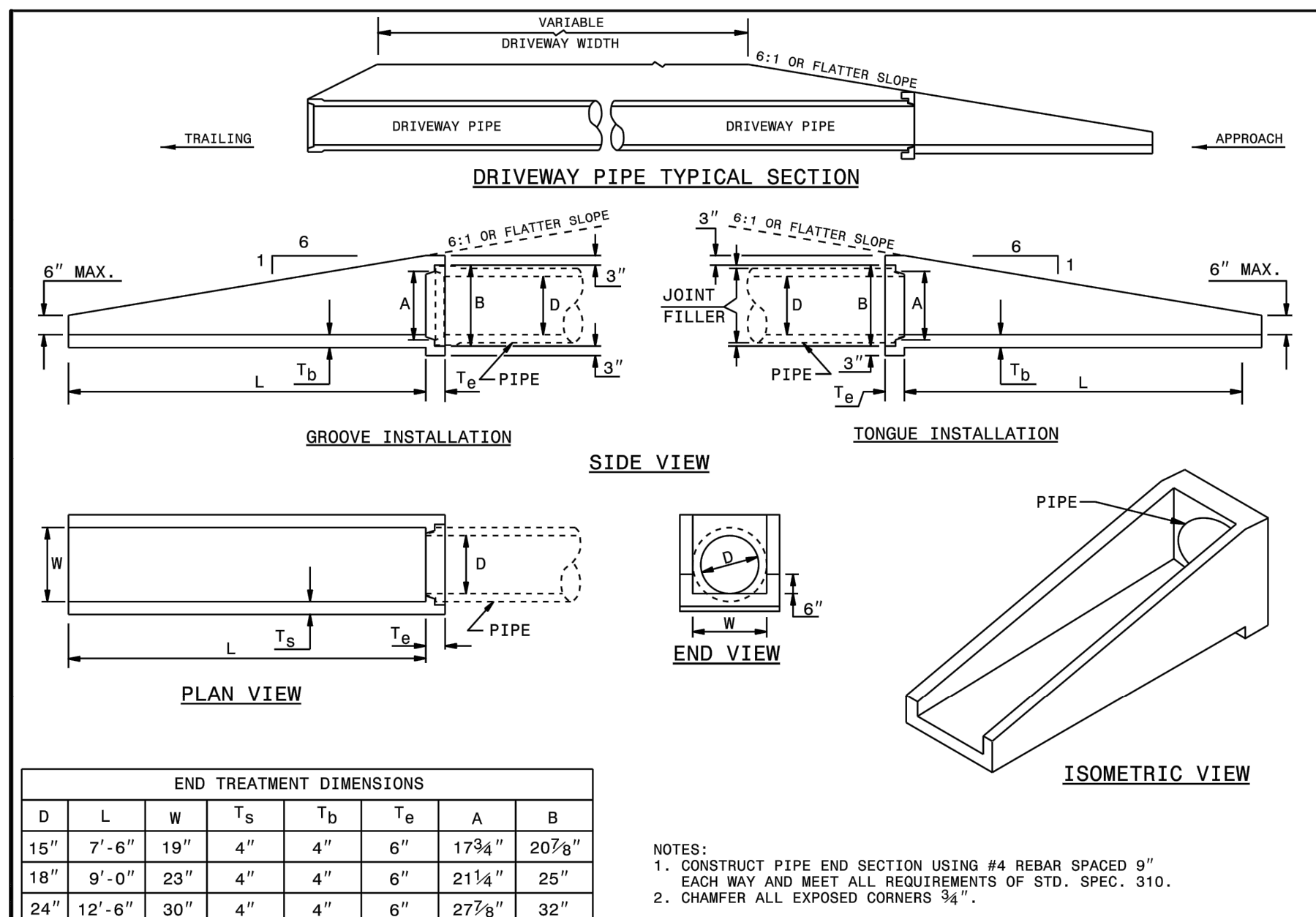


MCKIM & CREED logo and contact information: 8020 Tower Point Drive, Charlotte, North Carolina 28227. Phone: (704) 841-2588, Fax: (704) 841-2587. NC License # F-1222. www.mckimcreed.com

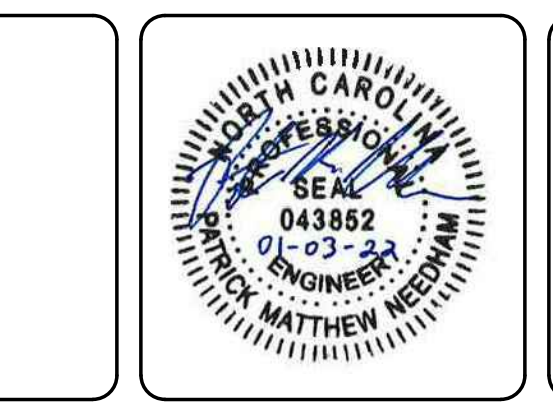
DSG Development Solutions Group logo and contact information.

BELLE MAR RESIDENTIAL
0 OLD MILL ROAD
TOWN OF WEDDINGTON, NC
GENERAL DETAILS

DATE: MAY 2021
SCALE: HORIZONTAL: C8.1
DRAWN: JPM
DESIGNED: JPM
CHECKED: PMN
PROJ. MGR.: PMN
STATUS: PRELIMINARY DRAWING NOT FOR CONSTRUCTION



REV.	DATE	DESCRIPTIONS
F	01/03/2022	ADDRESSED COMMENTS FROM UCWP
E	11/19/2021	ADDRESSED COMMENTS FROM UCWP
D	10/14/2021	ADDRESSED COMMENTS FROM UCWP
C	09/10/2021	ADDRESSED COMMENTS FROM NCDOT POST-CONSTRUCTION STORMWATER
B	09/10/2021	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT
A	08/04/2021	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT



MCKIM & CREED

8020 Tower Point Drive
 Charlotte, North Carolina 28227
 Phone: (704) 841-2588, Fax: (704) 841-2587
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 www.mckimcreed.com

DSG

Development Solutions Group

BELLE MAR RESIDENTIAL
 0 OLD MILL ROAD
 TOWN OF WEDDINGTON, NC

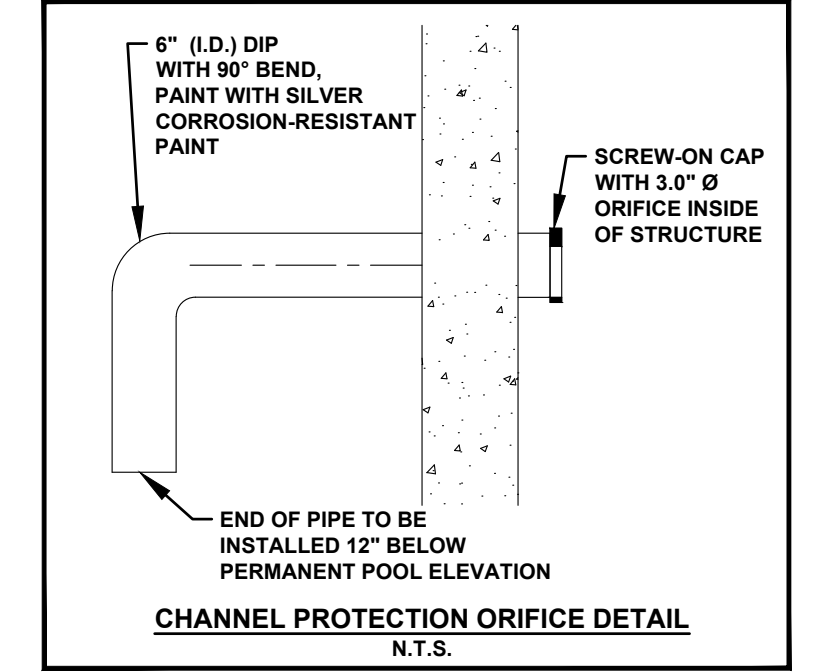
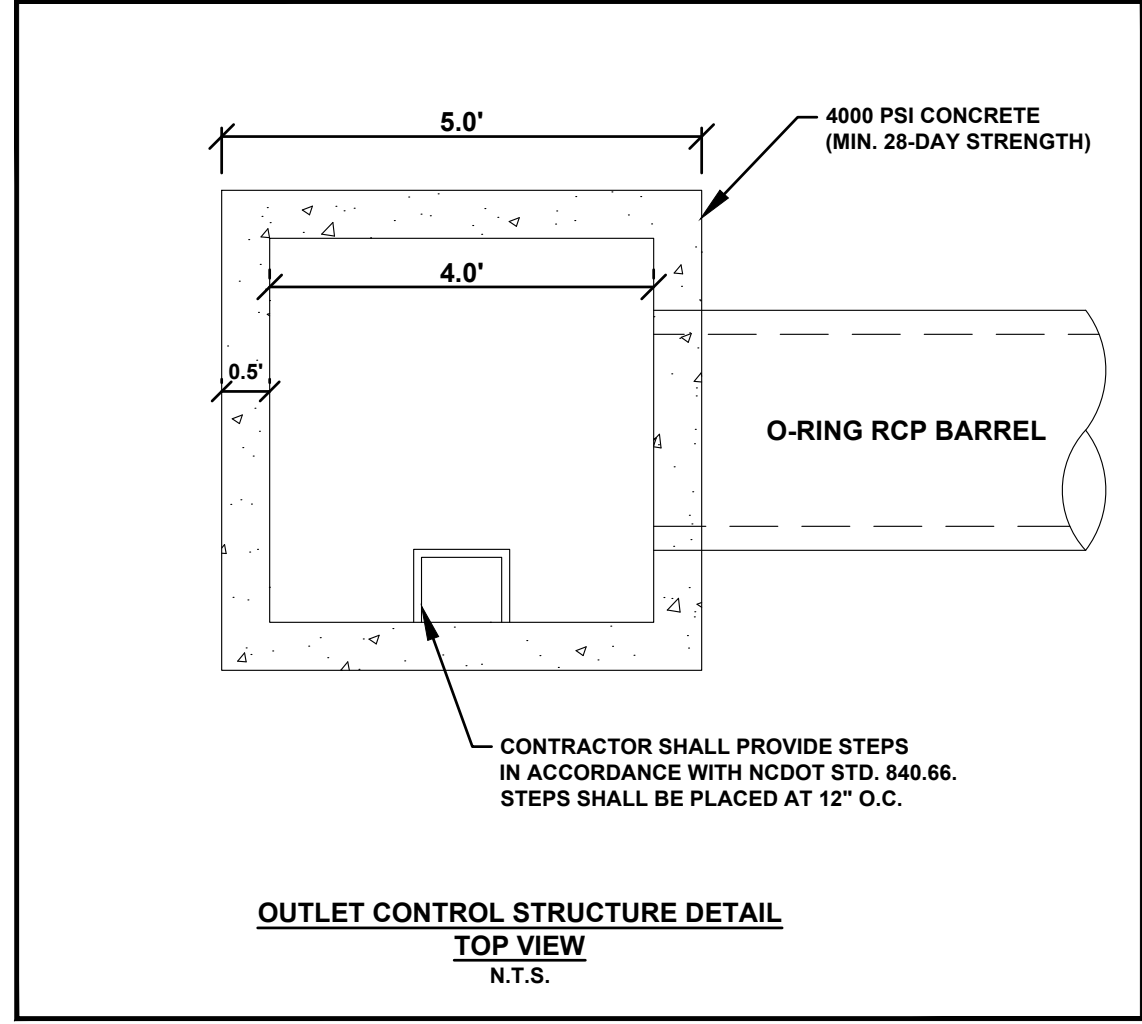
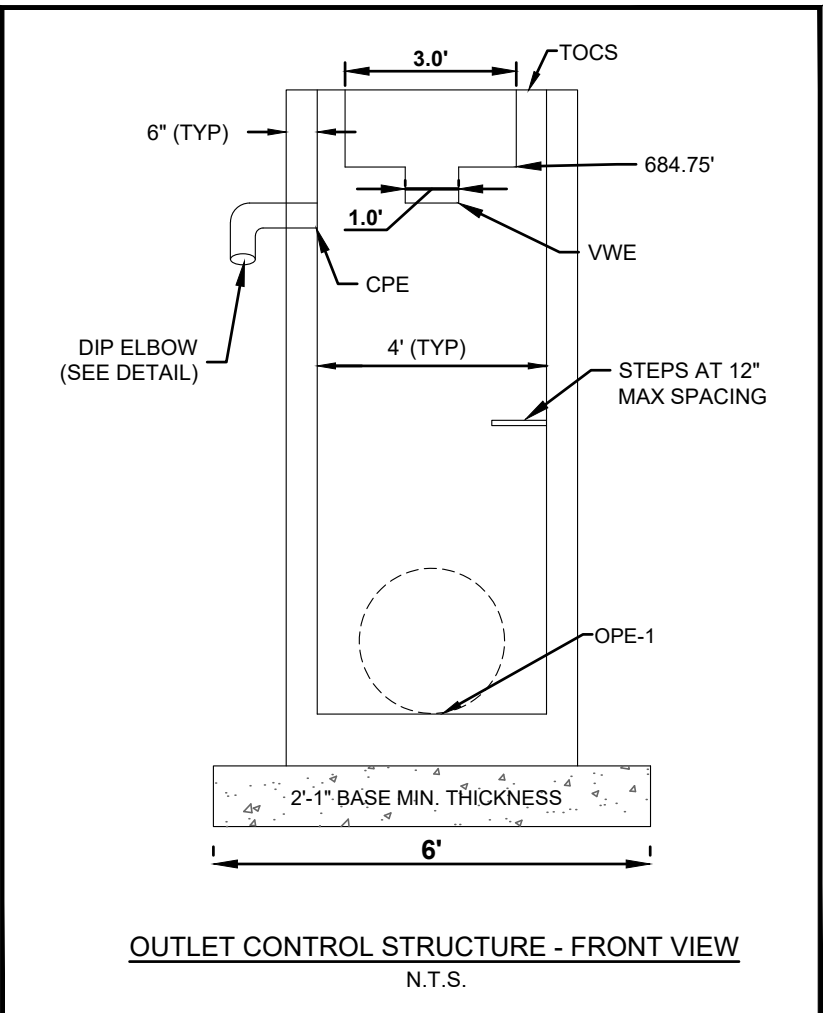
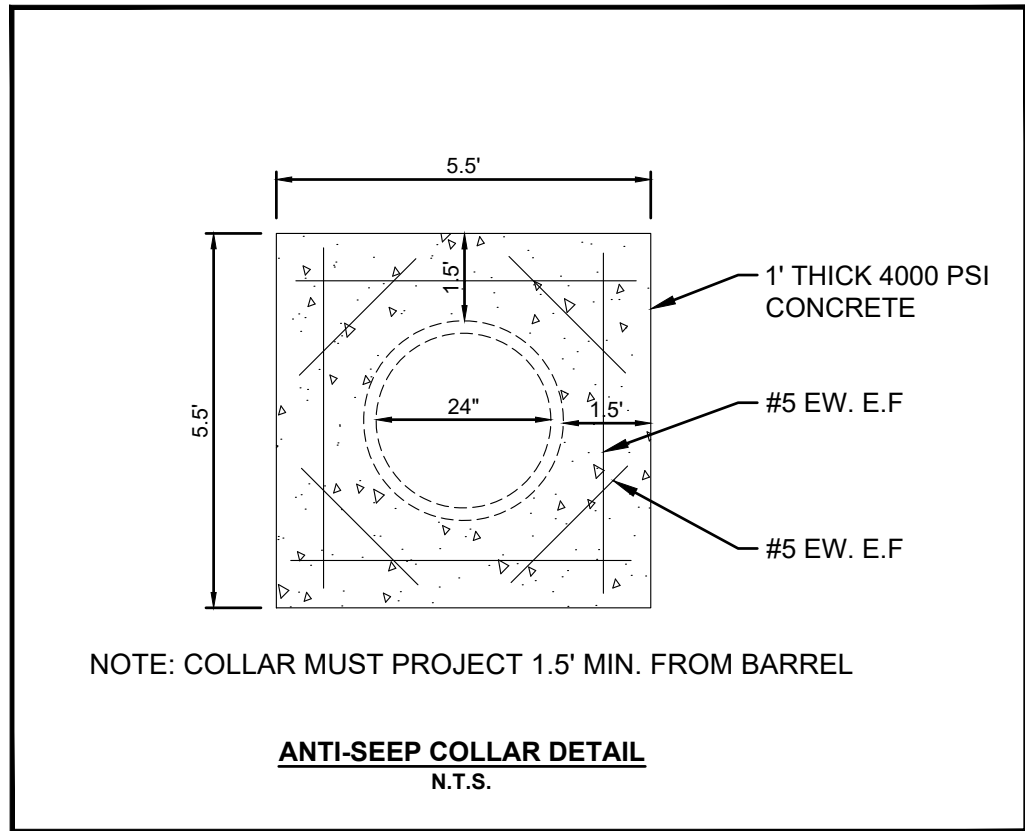
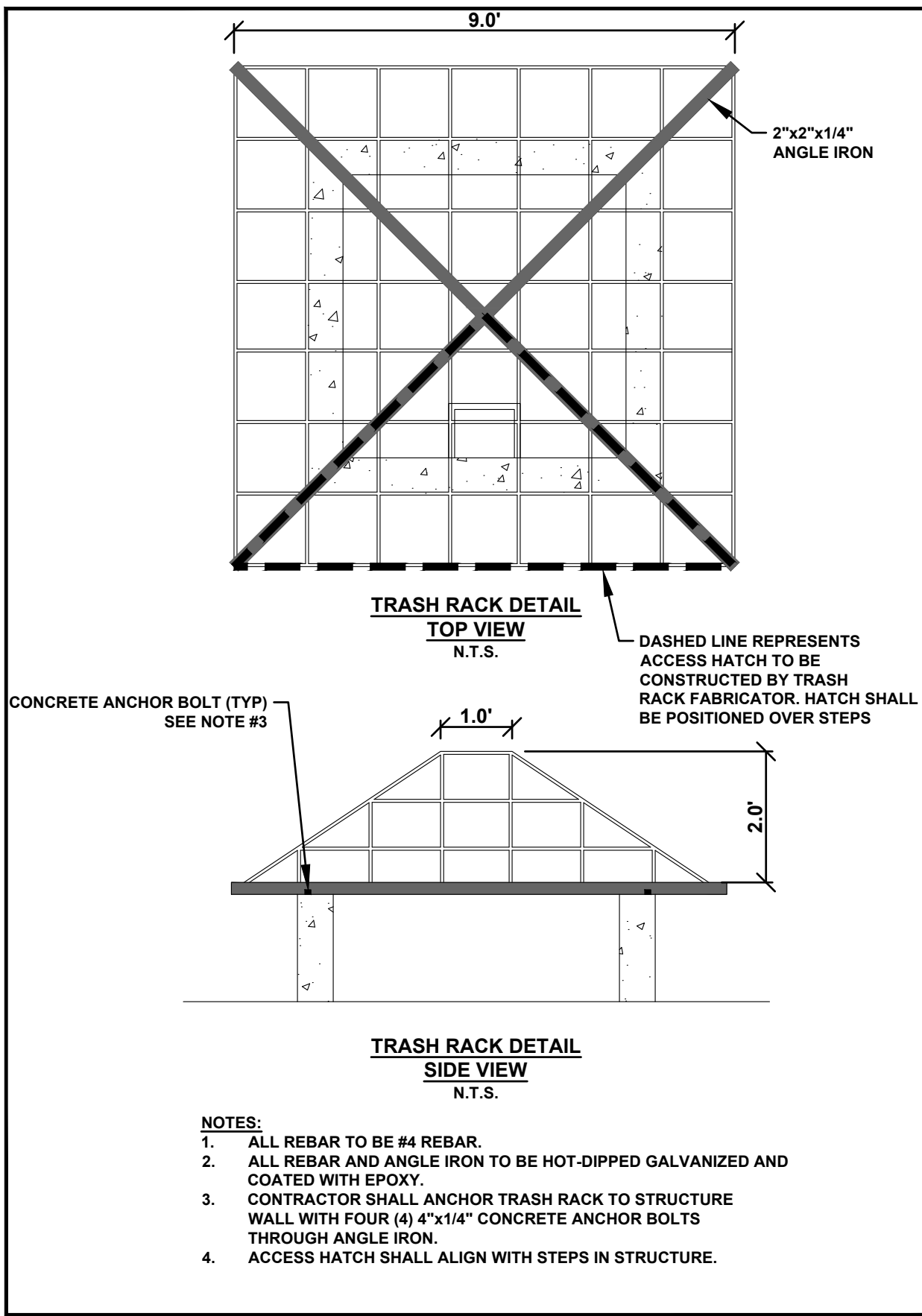
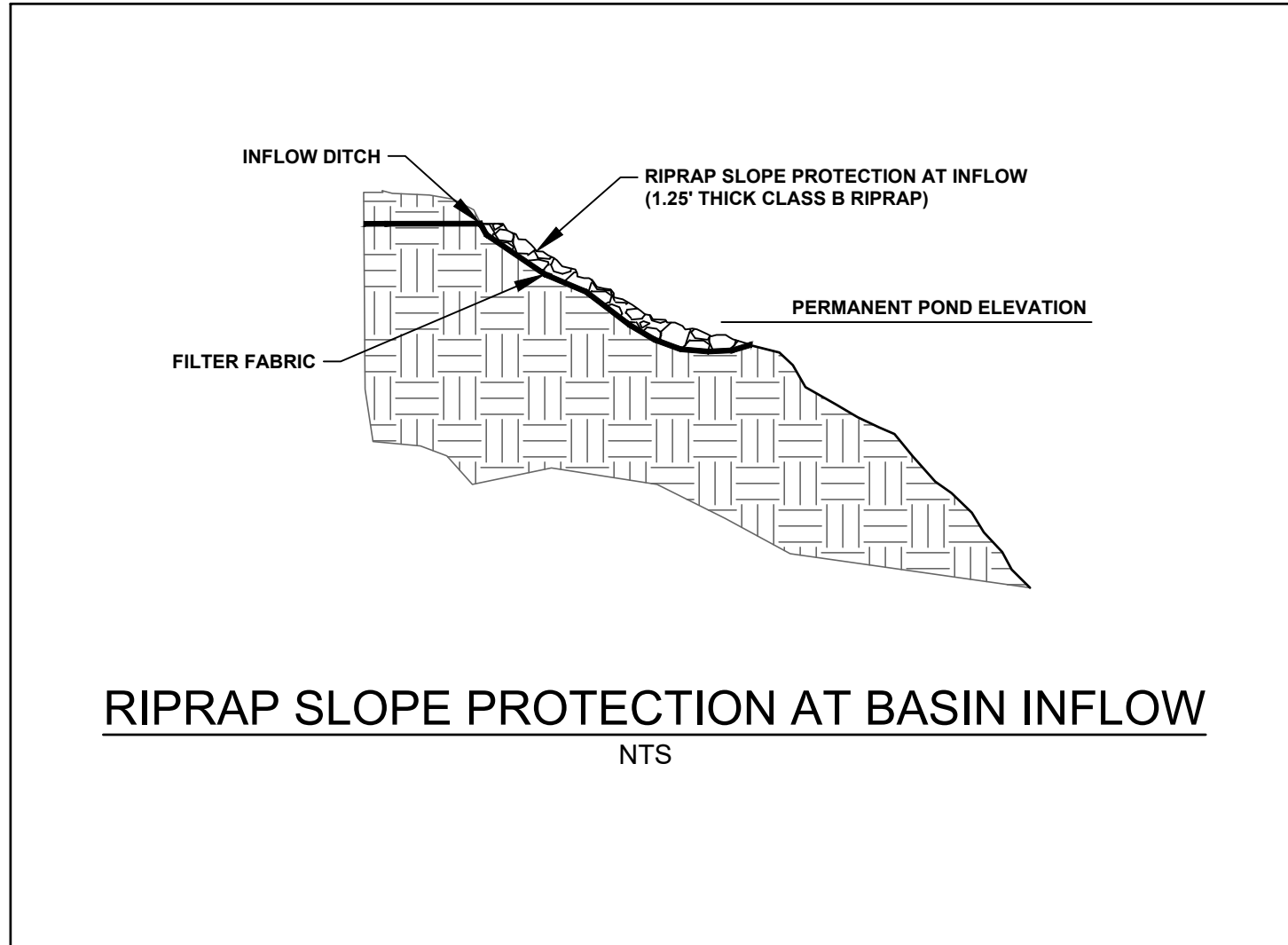
NCDOT DETAILS

DATE: MAY 2021
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 DESIGNED: JPM
 CHECKED: PMN
 PROJ. MGR: PMN

SCALE:
 HORIZONTAL: C8.2
 VERTICAL: N/A

DRAWING NUMBER: F
 REVISION:

STATUS: PRELIMINARY DRAWING NOT FOR CONSTRUCTION



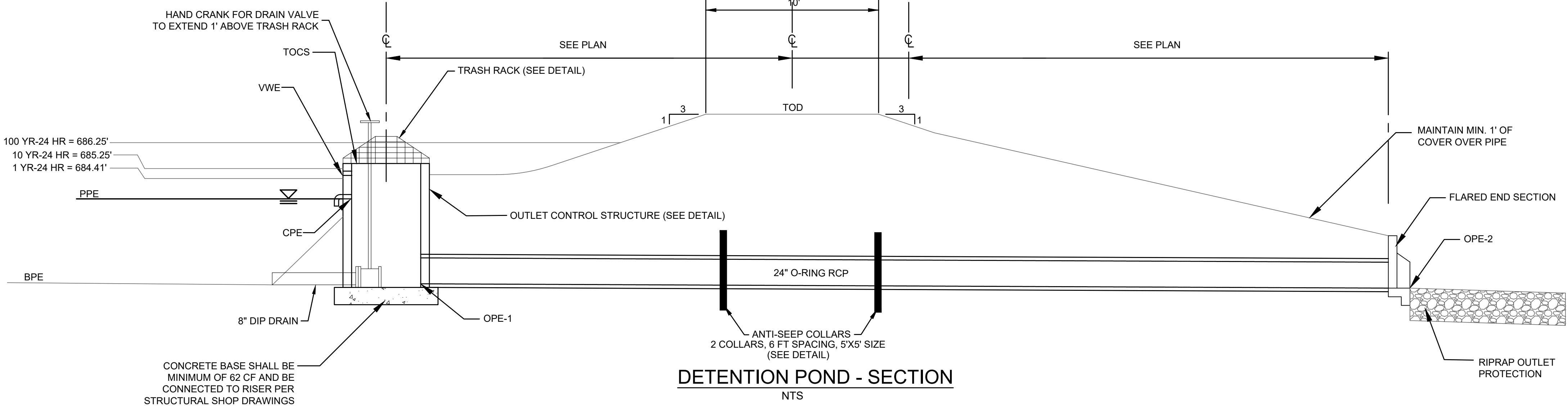
- NOTES:**
1. ALL REBAR TO BE #4 REBAR.
 2. ALL REBAR AND ANGLE IRON TO BE HOT-DIPPED GALVANIZED AND COATED WITH EPOXY.
 3. CONTRACTOR SHALL ANCHOR TRASH RACK TO STRUCTURE WALL WITH FOUR (4) 4\"/>

CONTRACTOR SHALL PROVIDE STEPS IN ACCORDANCE WITH NCDOT STD. 840.66. STEPS SHALL BE PLACED AT 12\"/>

- NOTES:**
1. EXISTING POND TO BE DE-WATERED PRIOR TO CONVERSION TO DETENTION POND. REFER TO CONSTRUCTION SEQUENCE ON DRAWING C.1.1 FOR FURTHER DETAIL.
 2. DAM MATERIAL AND COMPACTION REQUIREMENTS ARE TO BE FIELD DETERMINED BY GEOTECHNICAL ENGINEER. ALL WORK REGARDING THE DAM EMBANKMENT MUST BE MONITORED AND APPROVED BY GEOTECHNICAL ENGINEER.
 3. AN AS-BUILT SURVEY AND ENGINEER'S CERTIFICATION WILL BE REQUIRED STATING THAT THE POND IMPROVEMENTS MEET THE REQUIREMENTS OF THE TOWN'S STORMWATER/DETENTION ORDINANCE.
 4. A GEOTECHNICAL REPORT FOR DAM IMPROVEMENTS AND ENGINEER'S CERTIFICATION FOR SATISFACTORY COMPLETION OF CONSTRUCTION IS REQUIRED PRIOR TO PROJECT CLOSEOUT.

DETENTION POND ELEVATION INFORMATION

PERMANENT POND ELEVATION	PPE	684.00'
BOTTOM OF POND ELEVATION	BPE	677.00'
TOP OF DAM ELEVATION	TOD	688.00'
OUTLET PIPE UPSTREAM INVERT ELEVATION	OPE-1	677.00'
OUTLET PIPE DOWNSTREAM INVERT ELEVATION	OPE-2	676.55'
VOLUME WEIR INVERT ELEVATION	VWE	684.25'
CHANNEL PROTECTION ORIFICE DIAMETER	CPD	3.0"
CHANNEL PROTECTION ORIFICE INVERT ELEVATION	CPE	684.00'
TOP OF OUTLET CONTROL STRUCTURE ELEVATION	TOCS	686.50'



100 YR-24 HR = 686.25'
10 YR-24 HR = 685.25'
1 YR-24 HR = 684.41'

CONCRETE BASE SHALL BE MINIMUM OF 62 CF AND BE CONNECTED TO RISER PER STRUCTURAL SHOP DRAWINGS

REV. NO.	DESCRIPTIONS	DATE
F	ADDRESSED COMMENTS FROM UCPW	01/03/2022
E	ADDRESSED COMMENTS FROM UCPW	11/19/2021
D	ADDRESSED COMMENTS FROM UCPW	10/14/2021
C	ADDRESSED COMMENTS FROM NCDOT POST-CONSTRUCTION STORMWATER	10/11/2021
B	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	09/10/2021
A	ADDRESSED COMMENTS FROM TOWN OF WEDDINGTON AND NCDOT	08/04/2021



MCKIM & CREED
8020 Tower Point Drive
Charlotte, North Carolina 28227
Phone: (704) 841-2588, Fax: (704) 841-2567
NC License# F-1222
www.mckimcreed.com

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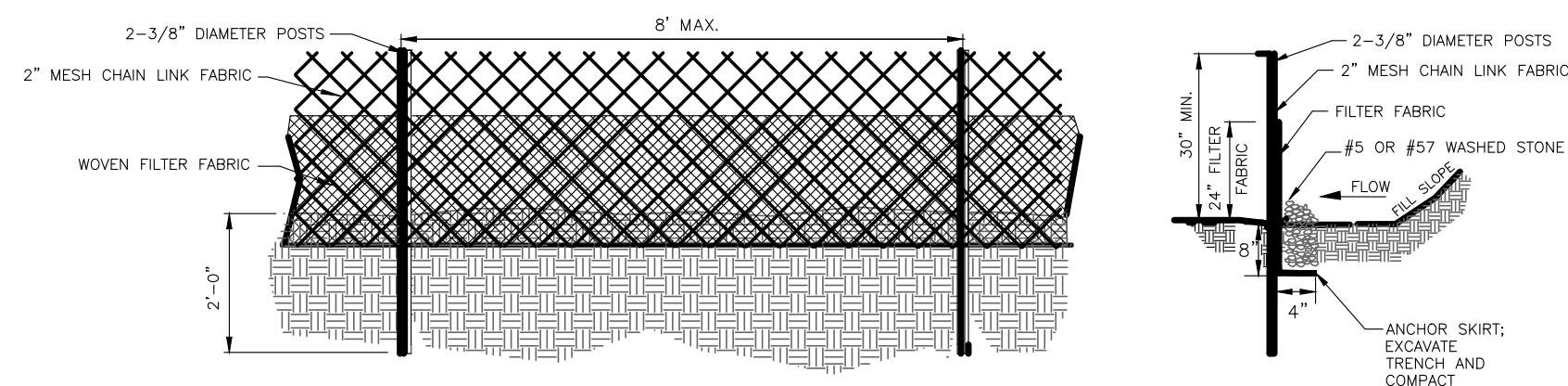
BMP DETAILS

DATE: MAY 2021
MCE PROJ. #: 07780-0013
DRAWN: JPM
DESIGNED: JPM
CHECKED: PMN
PROJ. MGR.: PMN

SCALE: HORIZONTAL: N/A, VERTICAL: N/A

C8.3
DRAWING NUMBER: F, REVISION

STATUS: **PRELIMINARY DRAWING NOT FOR CONSTRUCTION**



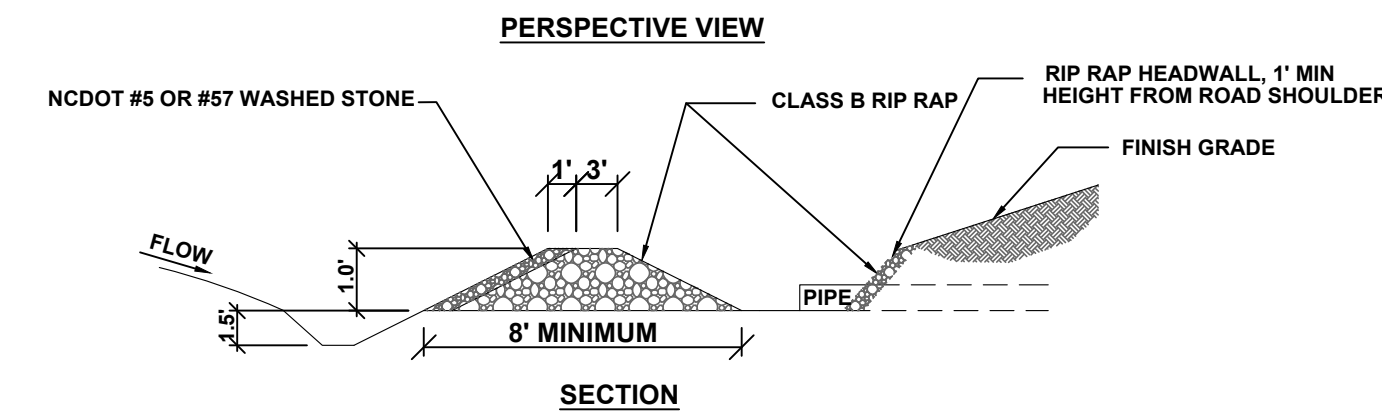
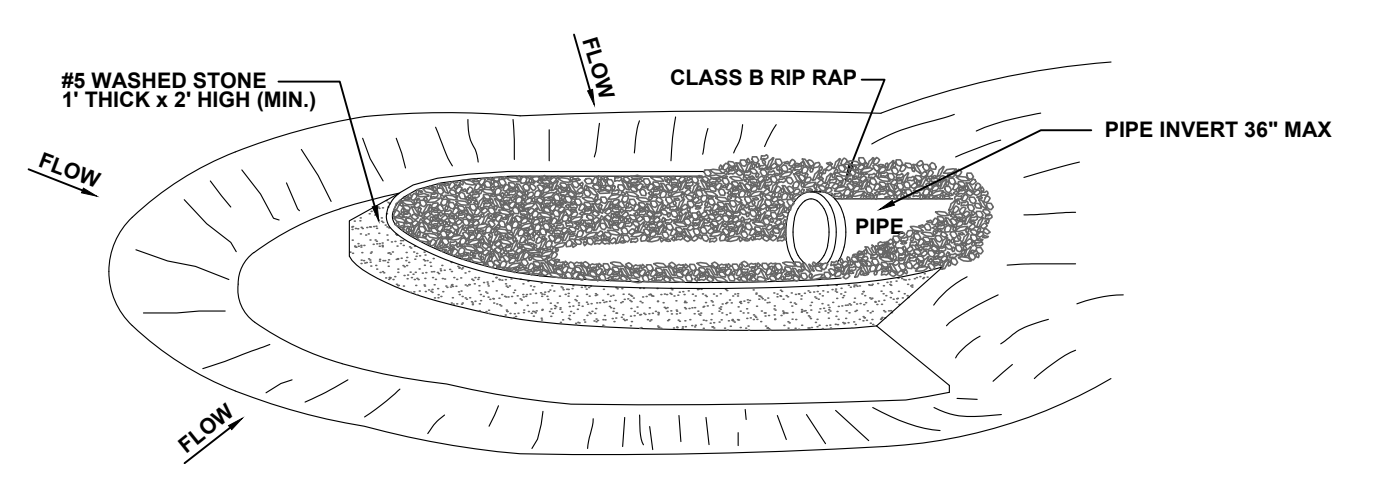
GENERAL NOTES:

1. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
2. STEEL POSTS SHALL BE 2-3/8" DIAMETER AND 5'-0" IN HEIGHT.
3. WIRE FENCING SHALL BE 2" MESH CHAIN LINK FABRIC.
4. TURN SILT FENCE UP SLOPE AT ENDS.
5. WIRE AND WASHED STONE IS REQUIRED TO BE SHOWN ON PLANS AT THE TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
6. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES). THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
7. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100 FT OF FENCE.
8. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

REINFORCED SILT FENCE (SUPER SILT FENCE) INSTALLATION SPECIFICATIONS AND MAINTENANCE



GENERAL NOTES:

1. GRAVEL AND RIP RAP FILTER BERM BASIN SHOULD BE USED TO PROTECT PIPE INVERTS THAT DRAIN 10 ACRES OR LESS.
2. DIMENSIONS SHOWN ARE THE MINIMUM ACCEPTED UNLESS OTHERWISE NOTED.
3. IN LIEU OF RING FILTER, THE OUTLET PIPE MAY BE COVERED WITH HARDWARE CLOTH, RIP RAP AND WASHED STONE WHERE A SPILLWAY IS NOT REQUIRED.

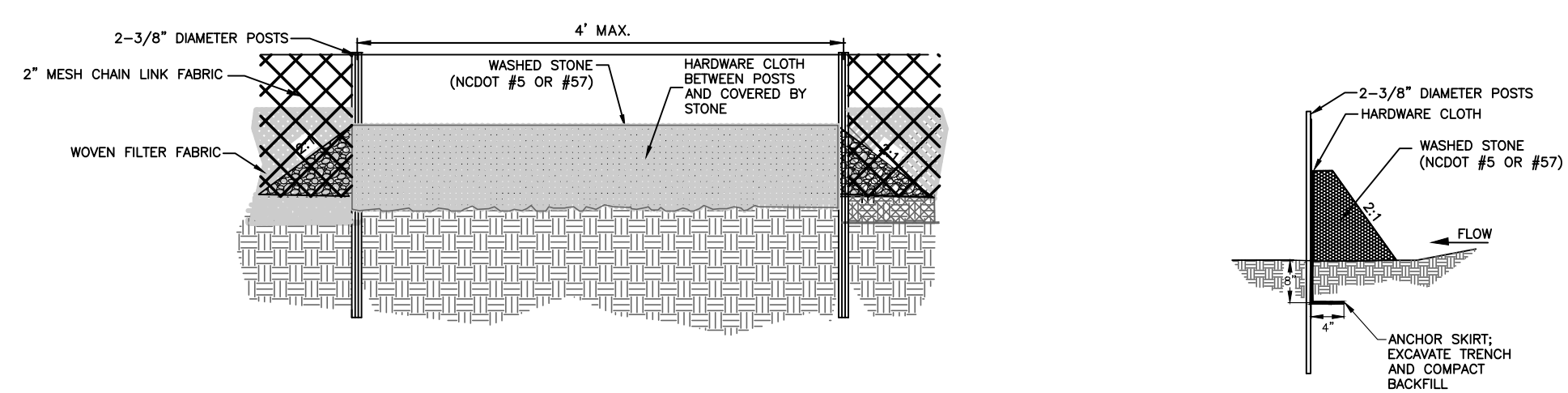
MAINTENANCE NOTES:

INSPECT ROCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

CHECK THE STRUCTURE FOR DAMAGE. ANY RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY.

AFTER ALL THE SEDIMENT PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER.

ROCK PIPE INLET PROTECTION NOT TO SCALE



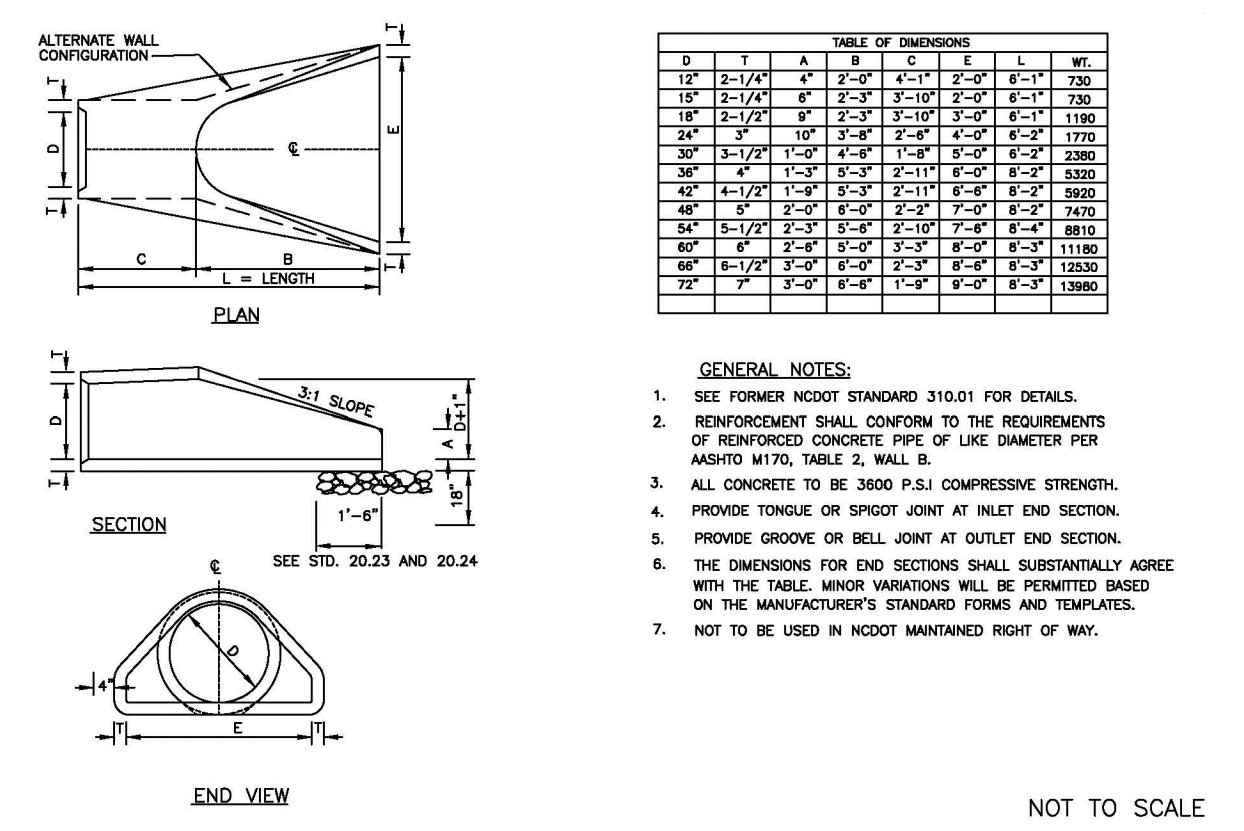
GENERAL NOTES:

1. SEDIMENT FILTER OUTLET AND HARDWARE CLOTH SHALL BE 16 INCHES HIGH BUT NO TALLER THAN 18 INCHES.
2. HARDWARE CLOTH SHALL BE ANCHORED TO THE POSTS SECURELY USING APPROPRIATE ANCHORS. HARDWARE CLOTH SHALL BE KEED IN A MINIMUM OF 12 INCHES IN LENGTH AND BACKFILLED PROPERLY AS SHOWN IN ABOVE DETAIL. HARDWARE CLOTH TO BE 19 GAUGE, 1/4" SPACING.
3. POSTS SHALL BE NO MORE THAN 4 FEET APART.
4. SITE OUTLETS AT ANY POINT SMALL CONCENTRATED FLOWS ARE ANTICIPATED AND AT THE DIRECTION OF THE INSPECTOR.
5. ONE ACRE MAXIMUM DRAINAGE AREA PER OUTLET.

MAINTENANCE NOTES:

1. FILTER OUTLETS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. THE STONE SHALL BE REPLACED PROMPTLY AFTER ANY EVENT THAT HAS CLOGGED OR REMOVED IT.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OUTLET IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

REINFORCED SILT FENCE (SUPER SILT FENCE) OUTLET DEVICE INSTALLATION SPECIFICATIONS AND MAINTENANCE



FLARED END SECTION DETAIL NOT TO SCALE

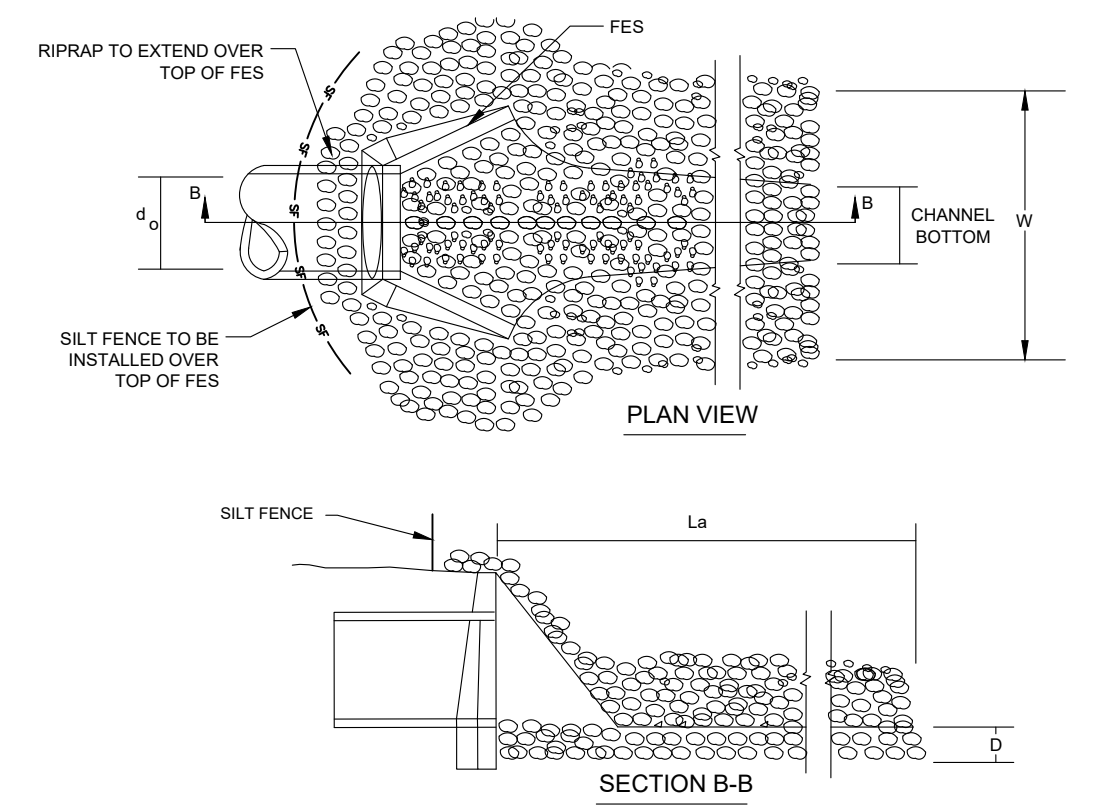
Construction Specifications

1. Ensure that the subgrade for the filter and riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness.
2. The riprap and gravel filter must conform to the specified grading limits shown on the plans.
3. Filter cloth, when used, must meet design requirements and be properly protected from punching or tearing during installation. Repair any damage by removing the riprap and placing another piece of filter cloth over the damaged area. All connecting joints should overlap so the top layer is above the downstream layer a minimum of 1 foot. If the damage is extensive, replace the entire filter cloth.
4. Riprap may be placed by equipment, but take care to avoid damaging the filter.
5. The minimum thickness of the riprap should be 1.5 times the maximum stone diameter.
6. Riprap may be field stone or rough quarry stone. It should be hard, angular, highly weather-resistant and well graded.
7. Construct the apron on zero grade with no overfill at the end. Make the top of the riprap at the downstream end level with the receiving area or slightly below it.
8. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper section of the apron.
9. Immediately after construction, stabilize all disturbed areas with vegetation (Practices 6.10, Temporary Seeding, and 6.11, Permanent Seeding).

Maintenance

Inspect riprap outlet structures weekly and after significant (1/2 inch or greater) rainfall events to see if any erosion around or below the riprap has taken place, or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

OUTLET STABILIZATION STRUCTURE SPECIFICATIONS AND MAINTENANCE

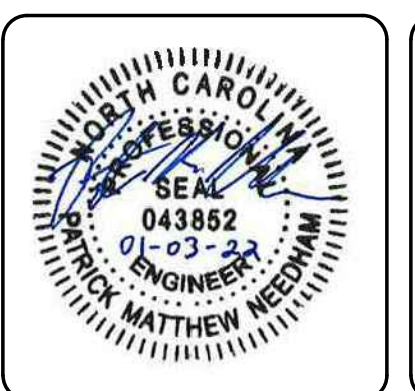
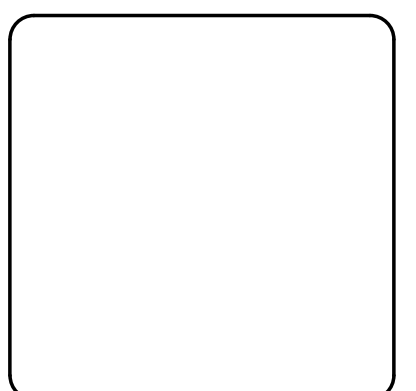


OUTLET NO.	Do (FT.)	La (FT.)	W (FT.)	DEPTH (IN.)	LINING CLASSIFICATION
CWD #2	1.0	8	9	6.0	CLASS A
TDD #4 & #8 (EC 3)	1.0	8	9	6.0	CLASS A
CULVERT #1	1.50	10	12	9.6	CLASS A
CULVERT #2	1.50	9	11	9.6	CLASS A
CULVERT #3	1.25	8	9	6.0	CLASS A
CULVERT #4	1.50	9	11	9.6	CLASS A
POND OUTLET	2.00	13	15	10.8	CLASS A

STONE CLASSIFICATIONS OF CLASS A REQUIRE A SUBLAYER OF FILTER FABRIC OR FS-2 FILTER STONE WITH A BEDDING THICKNESS OF 6".

RIPRAP OUTLET PROTECTION DETAIL NOT TO SCALE

REV. NO.	DESCRIPTIONS	DATE
F	ADDRESSED COMMENTS FROM UCPW	01/03/2022
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MCKIM & CREED
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DSG
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BELLE MAR RESIDENTIAL
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 TOWN OF WEDDINGTON, NC

GENERAL DETAILS

DATE: MAY 2021
 MCE PROJ. #: 07780-0013
 DRAWN: JPM
 DESIGNED: JPM
 CHECKED: PMN
 PROJ. MGR.: PMN

SCALE: HORIZONTAL: N/A, VERTICAL: N/A

C8.4
 DRAWING NUMBER: F
 REVISION

STATUS: PRELIMINARY DRAWING NOT FOR CONSTRUCTION

Construction Specifications

1. Clear, grub, and strip the area under the embankment of all vegetation and root mat. Remove all surface soil containing high amounts of organic matter and stockpile or dispose of it properly. Haul all objectionable material to the designated disposal area. Place temporary sediment control measures below basin as needed.
2. Ensure that fill material for the embankment is free of roots, woody vegetation, organic matter, and other objectionable material. Place the fill in lifts not to exceed 9 inches, and machine compact it. Overfill the embankment 6 inches to allow for settlement.
3. Shape the basin to the specified dimensions. Prevent the skimming device from settling into the mud by excavating a shallow pit under the skimmer or providing a low support under the skimmer of stone or timber.
4. Place the barrel (typically 4-inch Schedule 40 PVC pipe) on a firm, smooth foundation of impervious soil. Do not use pervious material such as sand, gravel, or crushed stone as backfill around the pipe. Place the fill material around the pipe spillway in 4-inch layers and compact it under and around the pipe to at least the same density as the adjacent embankment. Care must be taken not to raise the pipe from the firm contact with its foundation when compacting under the pipe haunches.
5. Assemble the skimmer following the manufacturer's instructions, or as designed.
6. Lay the assembled skimmer on the bottom of the basin with the flexible joint at the inlet of the barrel pipe. Attach the flexible joint to the barrel pipe and position the skimmer over the excavated pit or support. Be sure to attach a rope to the skimmer and anchor it to the side of the basin. This will be used to pull the skimmer to the side for maintenance.
7. Earthen spillways—Install the spillway in undisturbed soil to the greatest extent possible. The achievement of planned elevations, grade, design width, and entrance and exit channel slopes are critical to the successful operation of the spillway. The spillway should be lined with laminated plastic or impermeable geotextile fabric. The fabric must be wide and long enough to cover the bottom and sides and extend onto the top of the dam for anchoring in a trench. The edges may be secured with 8-inch staples or pins. The fabric must be long enough to extend down the slope and exit onto stable ground. The width of the fabric must be one piece, not joined or spliced; otherwise water can get under the fabric. If the length of the fabric is insufficient for the entire length of the spillway, multiple sections, spanning the complete width, may be used. The upper section(s) should overlap the lower section(s) so that water cannot flow under the fabric. Secure the upper edge and sides of the fabric in a trench with staples or pins. (Adapted from "A Manual for Designing, Installing and Maintaining Skimmer Sediment Basins," February, 1999. J. W. Faircloth & Son.)
8. Inlets—Discharge water into the basin in a manner to prevent erosion. Use temporary slope drains or diversions with outlet protection to divert sediment-laden water to the upper end of the pool area to improve basin trap efficiency (References: *Runoff Control Measures and Outlet Protection*).
9. Erosion control—Construct the structure so that the disturbed area is minimized. Divert surface water away from bare areas. Complete the embankment before the area is cleared. Stabilize the emergency spillway embankment and all other disturbed areas above the crest of the principal spillway immediately after construction (References: *Surface Stabilization*).
10. Install porous baffles as specified in Practice 6.65, *Porous Baffles*.
11. After all the sediment-producing areas have been permanently stabilized, remove the structure and all the unstable sediment. Smooth the area to blend with the adjoining areas and stabilize properly (References: *Surface Stabilization*).

Maintenance

Inspect skimmer sediment basins at least weekly and after each significant (one-half inch or greater) rainfall event and repair immediately. Remove sediment and restore the basin to its original dimensions when sediment accumulates to one-half the height of the first baffle. Pull the skimmer to one side so that the sediment underneath it can be excavated. Excavate the sediment from the entire basin, not just around the skimmer or the first cell. Make sure vegetation growing in the bottom of the basin does not hold down the skimmer.

Repair the baffles if they are damaged. Re-anchor the baffles if water is flowing underneath or around them.

If the skimmer is clogged with trash and there is water in the basin, usually jerking on the rope will make the skimmer bob up and down and dislodge the debris and restore flow. If this does not work, pull the skimmer over to the side of the basin and remove the debris. Also check the orifice inside the skimmer to see if it is clogged; if so remove the debris.

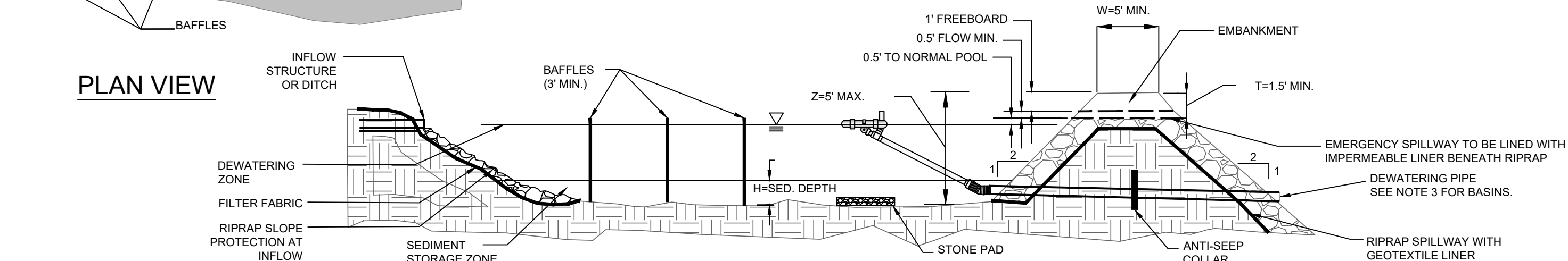
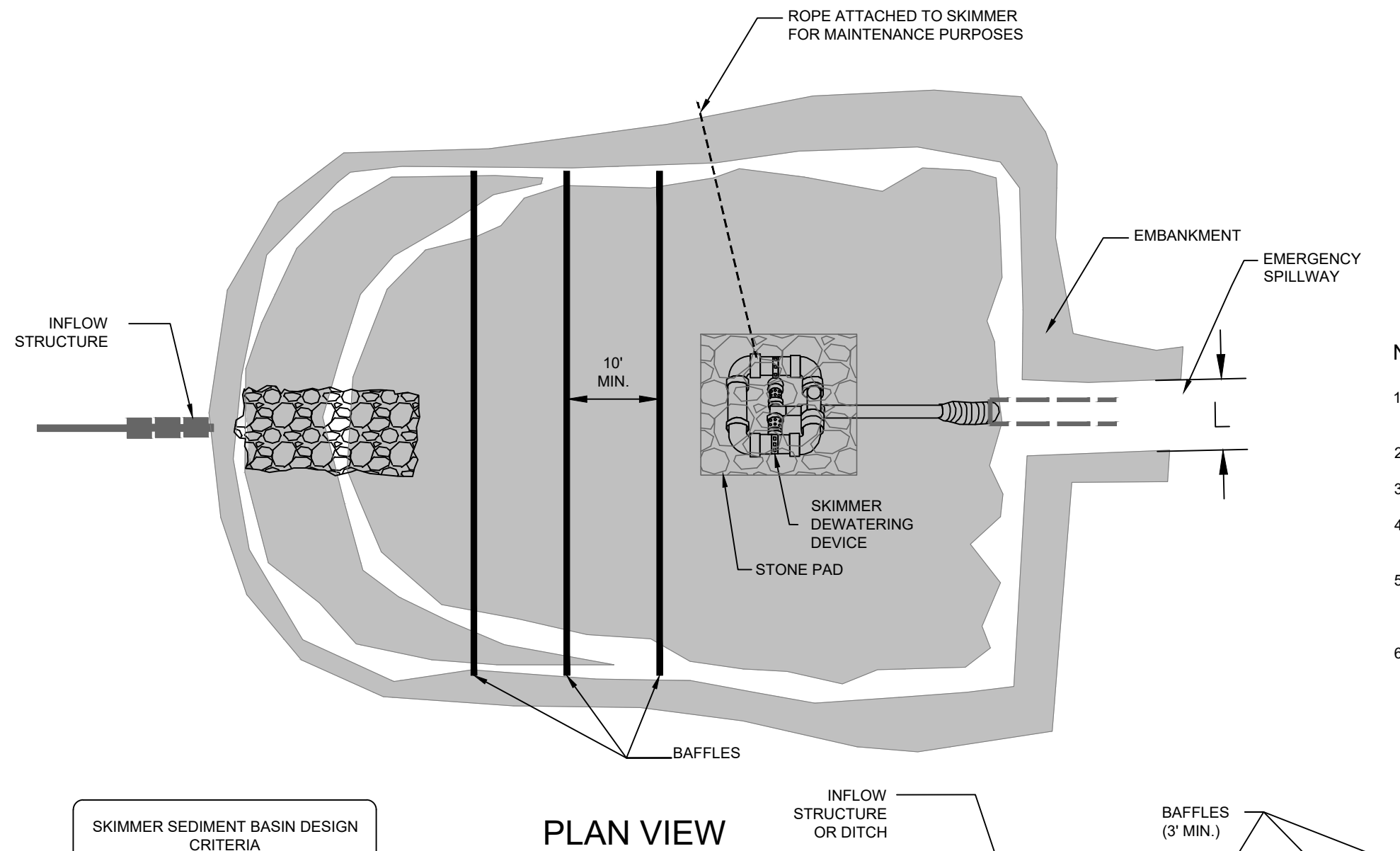
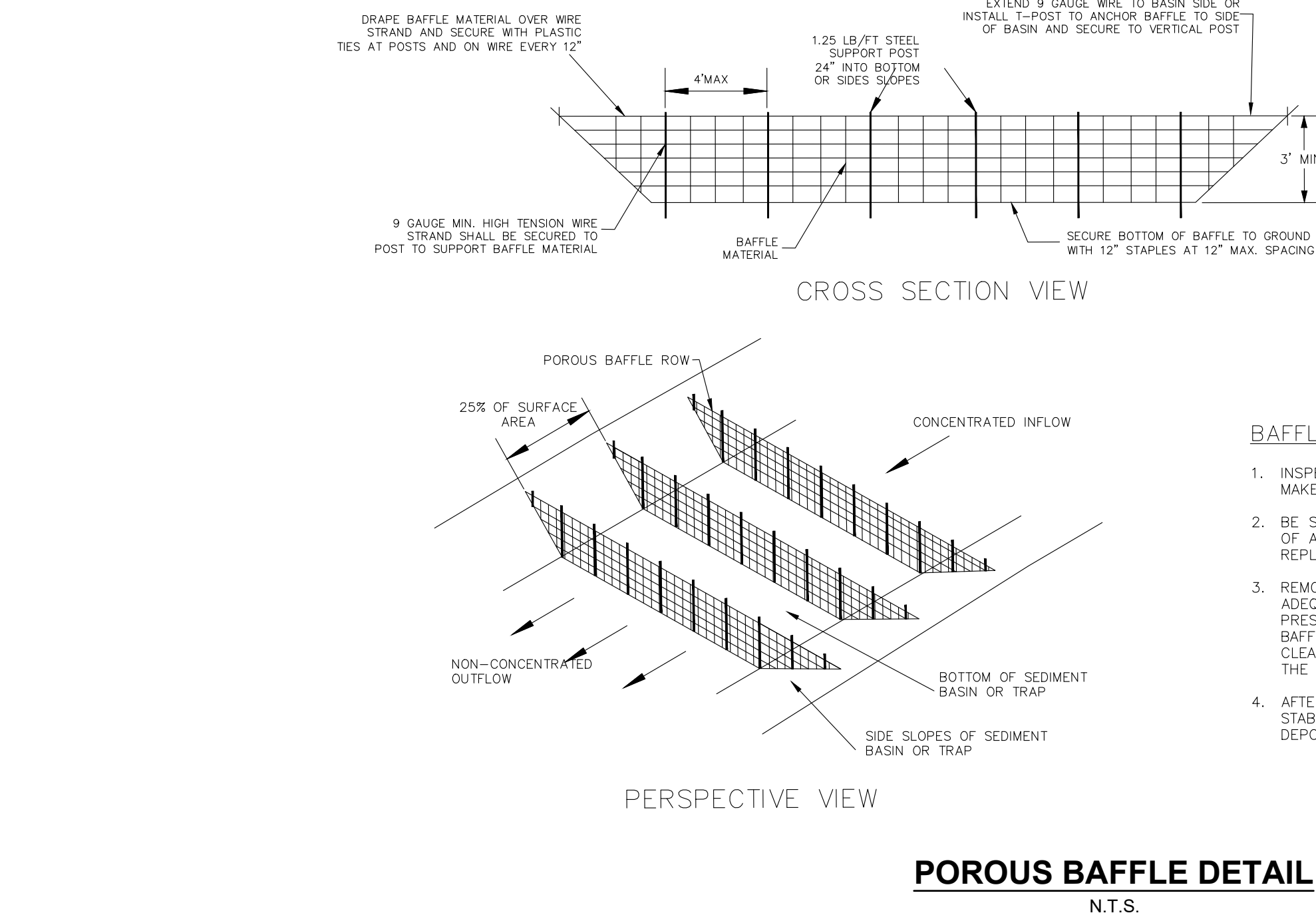
If the skimmer arm or barrel pipe is clogged, the orifice can be removed and the obstruction cleared with a plumber's snake or by flushing with water. Be sure and replace the orifice before repositioning the skimmer.

Check the fabric lined spillway for damage and make any required repairs with fabric that spans the full width of the spillway. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement. Make all necessary repairs immediately. Remove all trash and other debris from the skimmer and pool areas.

Freezing weather can result in ice forming in the basin. Some special precautions should be taken in the winter to prevent the skimmer from plugging with ice.

SEDIMENT BASINS SPECIFICATIONS AND MAINTENANCE

SKIMMER SEDIMENT BASIN DESIGN CRITERIA	
DRAINAGE AREA (ACRES)	< 10 AC.
MIN. LENGTH TO WIDTH RATIO	2:1
MAX. LENGTH TO WIDTH RATIO	6:1
MIN. VOLUME REQUIRED	1800 (CU. FT. PER AC. DISTURBED)
SURFACE AREA REQUIRED	325 (SQ. FT. PER CFS Q10)



EROSION CONTROL PHASE I

BASIN	DRAINAGE AREA (ACRES)	DENUDED AREA (ACRES)	Q ₁₀ (CFS)	BASIN VOLUME		BASIN SURFACE AREA		CLEANOUT DEPTH (FT.) H ₂	H (FEET)	Z (FEET)	L (FEET)	T (FEET)	W (FEET)	SKIMMER PIPE DIAMETER	SKIMMER ORIFICE DIAMETER	SKIMMER INVERT (MSL)	BOTTOM ELEVATION (MSL)	DEWATERING TIME (DAYS)
				REQUIRED (CUBIC FT.)	PROVIDED (CUBIC FT.)	REQUIRED (SQ. FT.)	PROVIDED (SQ. FT.)											
1	0.93	0.93	4.21	1,674	2,313	1,369	1,430	1.0	2.0	4.0	10	1.5	5	1.5 INCH	1.00 INCH	690.00	689.50	2.87

SKIMMER SEDIMENT BASIN
N.T.S.

BAFFLES - INSPECTION & MAINTENANCE

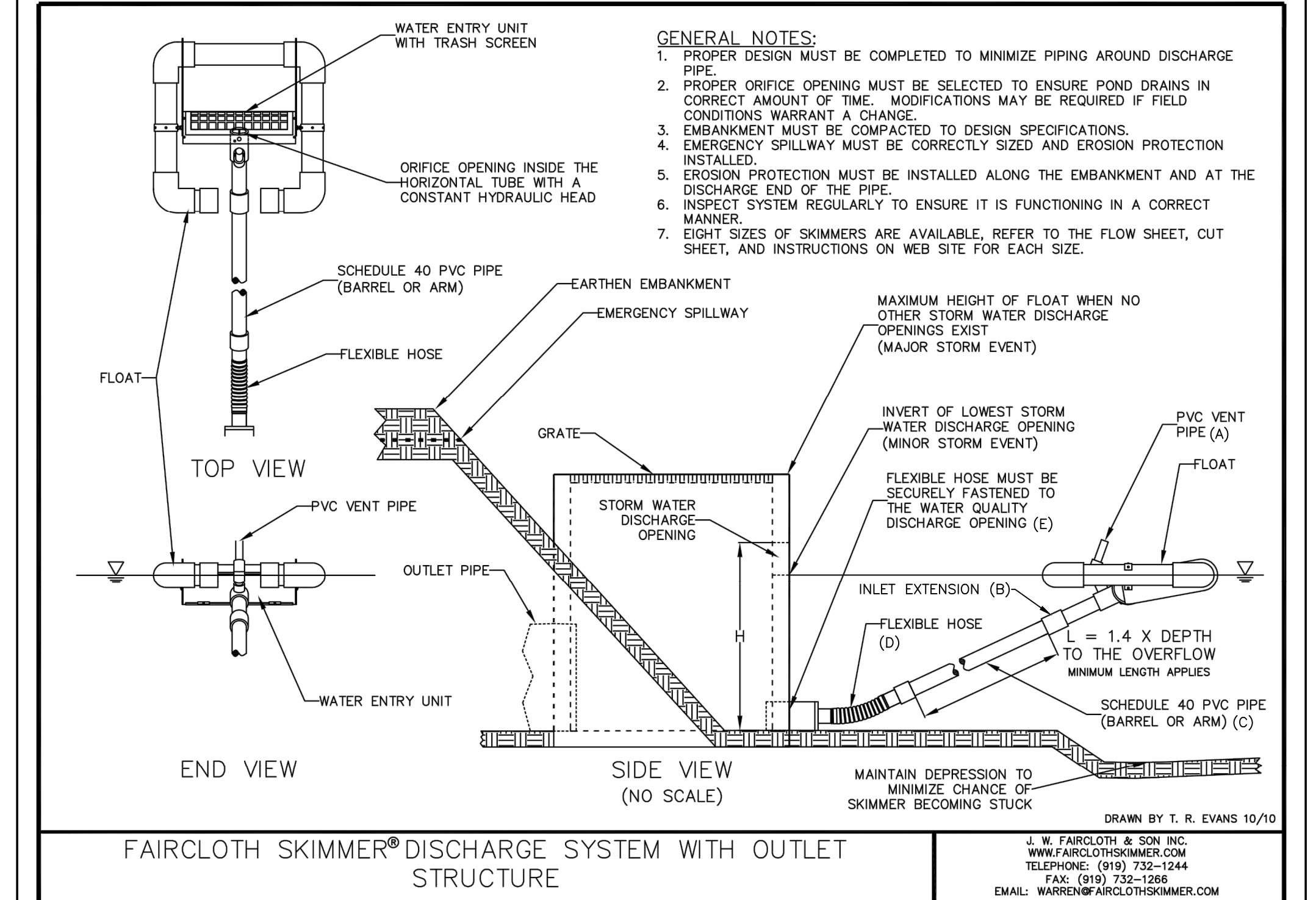
1. INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL, TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT, AND REPLACE IF DAMAGED DURING CLEANOUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.
4. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.

NOTES:

1. REFER TO NCSCSDM SECTION #6.64 FOR ADDITIONAL DESIGN SPECIFICATIONS REGARDING SKIMMER SEDIMENT BASINS.
2. REFER TO BAFFLE DETAIL FOR SPACING AND INSTALLATION OF BAFFLES.
3. ALL SKIMMER BASIN DEWATERING TIMES ARE 3 DAYS.
4. STABILIZE, SEED, AND MULCH BASIN SLOPES IMMEDIATELY AFTER CONSTRUCTION.
5. SYNTHETIC MAT WILL BE REQUIRED ON ALL FILL BERMS AT SEDIMENT BASINS AND SHALL EXTEND 10' INTO VIRGIN SOIL AT EACH END OF THE BERM.
6. THE LOCATION OF THE EMERGENCY SPILLWAY IS SHOWN BELOW FOR REFERENCE ONLY. SEE PLAN FOR ACTUAL LOCATION IN POND.

$$AVERAGE WIDTH W = \frac{AREA \cdot L}{L}$$

* AREA OF BASIN WATER SURFACE AT TOP OF PRINCIPAL SPILLWAY



MAINTENANCE NOTES:

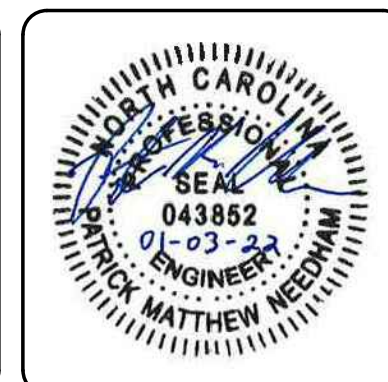
INSPECT SKIMMER AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

ENSURE THE SKIMMER DOES NOT BECOME CLOGGED WITH DEBRIS OR SEDIMENT. IF SKIMMER BECOMES CLOGGED, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER.

SKIMMER
NOT TO SCALE

SKIMMER SIZE	VENT TIP COLOR (A)	INLET EXT. (B)	BARREL (C)	HOSE (D)	OUTLET (E)
1.5	RED	N/A	1.5"	1.5"	4"
2	YELLOW	2"	1.5"	1.5"	4"
2.5	GREEN	2.5"	1.5"	1.5"	4"
3	BLUE	3"	2"	2"	4"
4	ORANGE	4"	3"	3"	4"
5	SILVER/BLACK	5"	4"	4"	N/A
6	WHITE	6"	5"	5"	N/A
8	N/A	8"	6"	6"	N/A

REV.	DATE	DESCRIPTIONS
F	01/03/2022	ADDRESSED COMMENTS FROM UCWP
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DSG
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BELLE MAR RESIDENTIAL
 0 OLD MILL ROAD
 TOWN OF WEDDINGTON, NC

SEDIMENT BASIN DETAILS

DATE: MAY 2021
 MCE PROJ. #: 07780-0013
 DRAWN: JPM
 DESIGNED: JPM
 CHECKED: PMN
 PROJ. MGR.: PMN

SCALE: HORIZONTAL: N/A, VERTICAL: N/A

C8.5
 DRAWING NUMBER: F
 REVISION

STATUS: **PRELIMINARY DRAWING NOT FOR CONSTRUCTION**