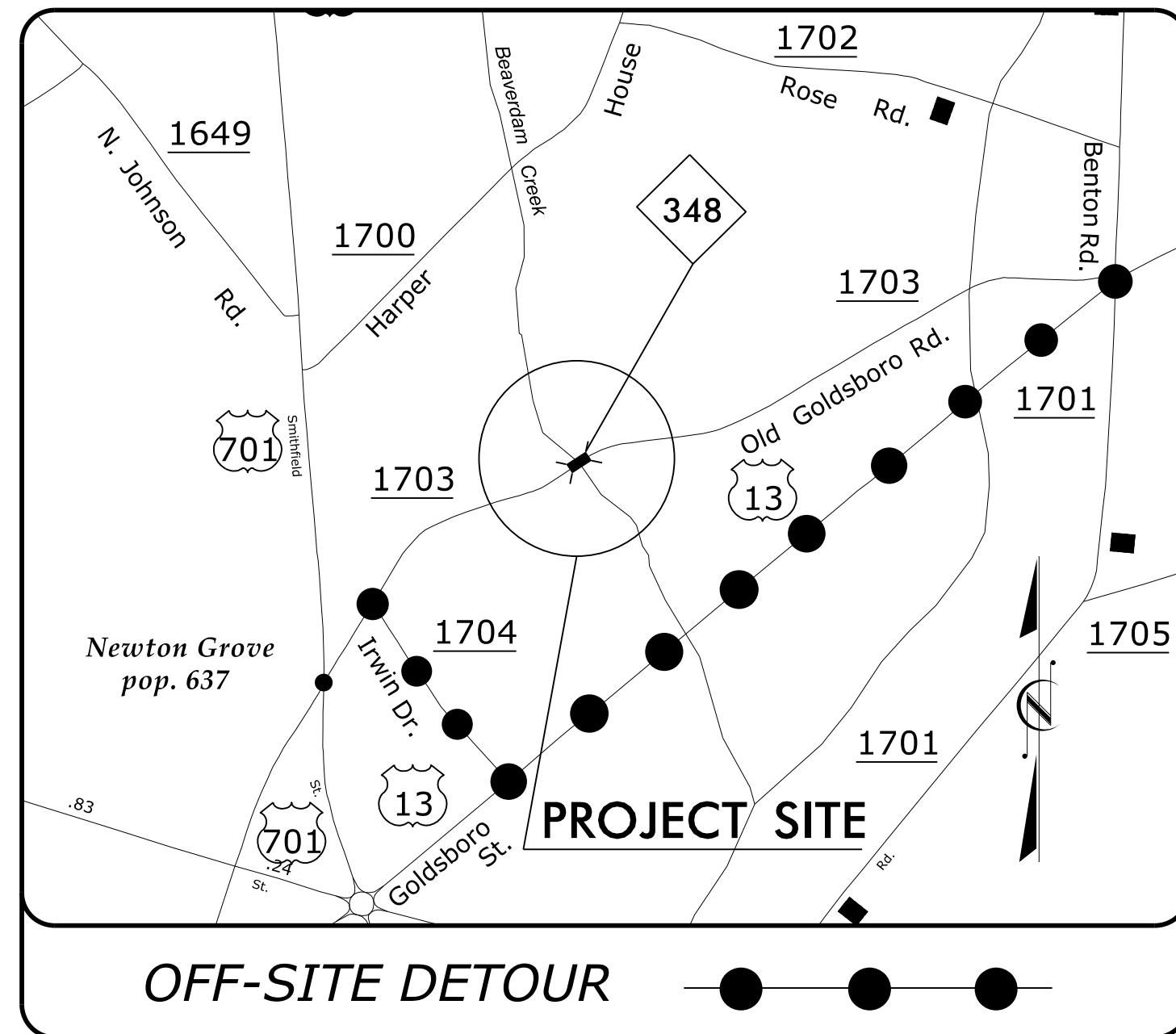
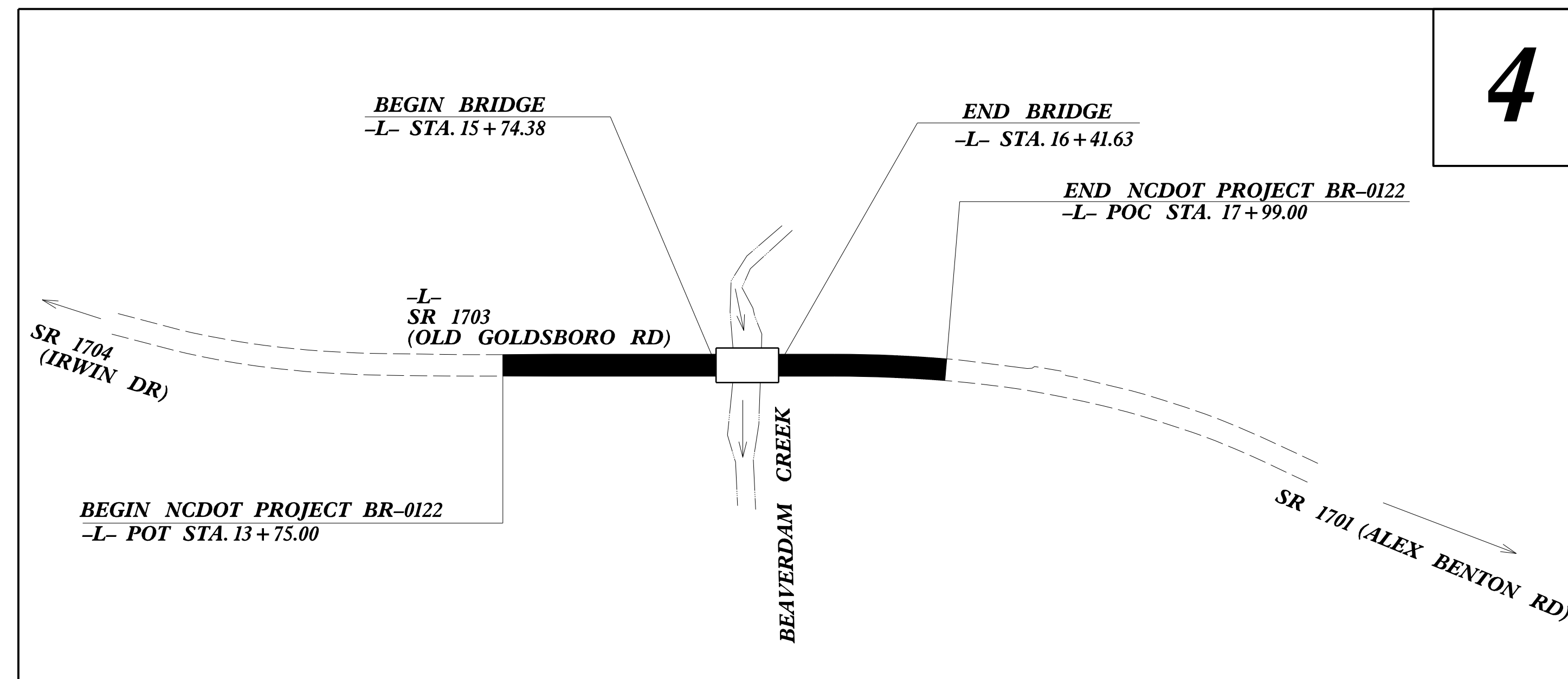


**TIP PROJECT: BR-0122**

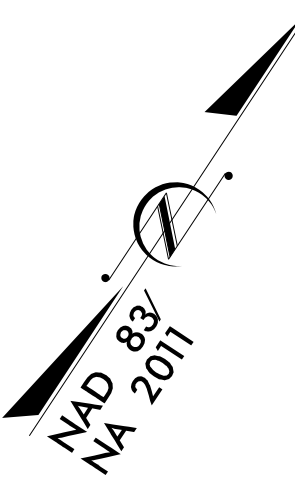


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL  
**SAMPSON COUNTY**

**LOCATION: BRIDGE NO. 810348 OVER BEAVERDAM CREEK  
ON SR 1703 (OLD GOLDSBORO RD)  
TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE**



THE OUTSIDE BUFFER, WETLAND,  
OR WATER BOUNDARY SHALL BE  
CLEARLY MARKED BY HIGHLY  
VISIBLE FENCING (ORANGE SAFETY  
FENCE)

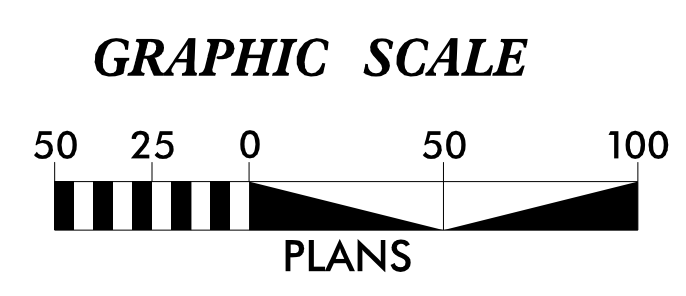


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0122	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1650.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1650.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle/Coir Fiber Wattle	WF
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	WF-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

THIS PROJECT CONTAINS  
EROSION CONTROL PLANS  
FOR CLEARING AND  
GRUBBING PHASE OF  
CONSTRUCTION.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH  
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000  
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019  
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



WETHERILL ENGINEERING  
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

Designed by:  
**FORREST BROOKS, EI** 4039  
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

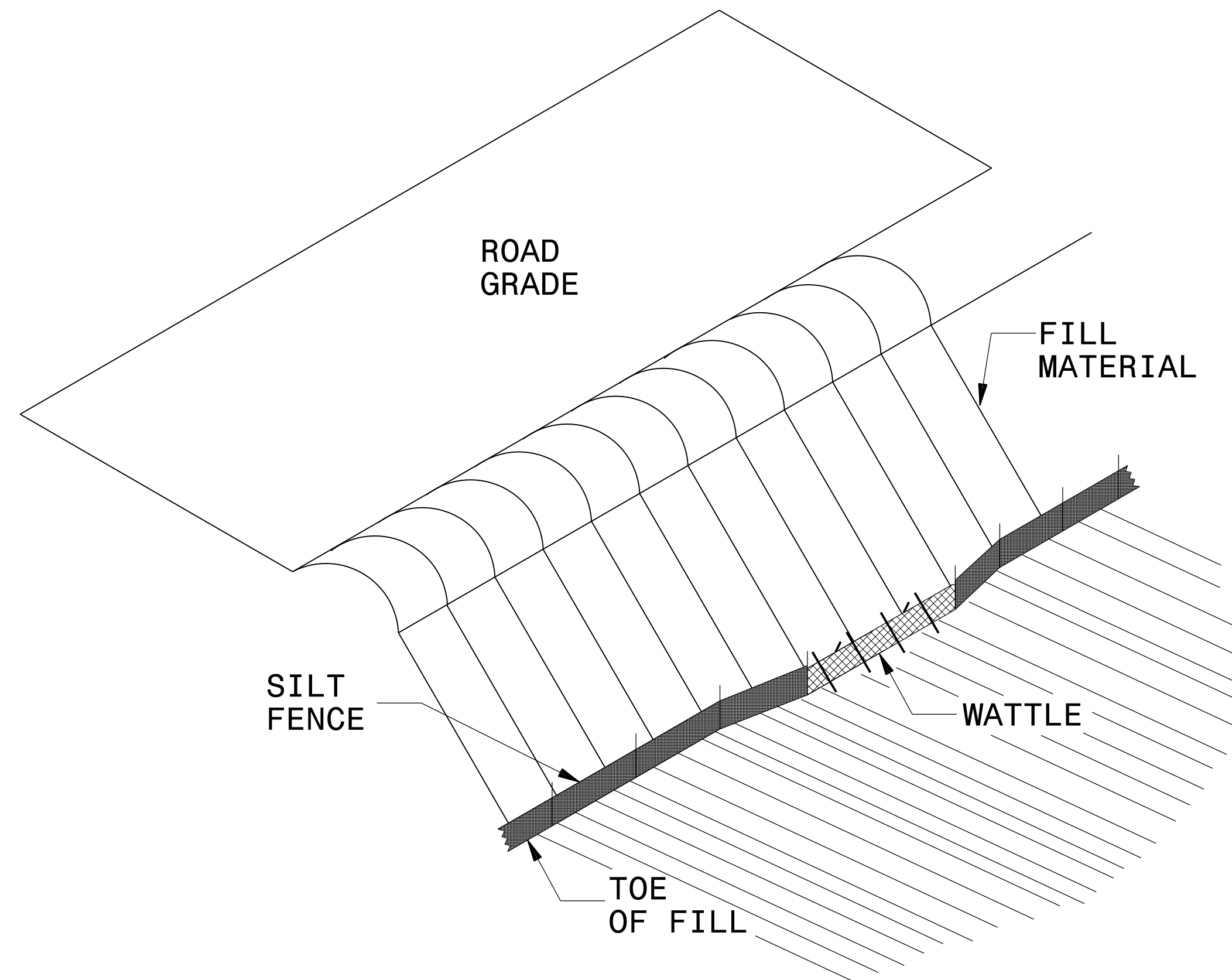
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

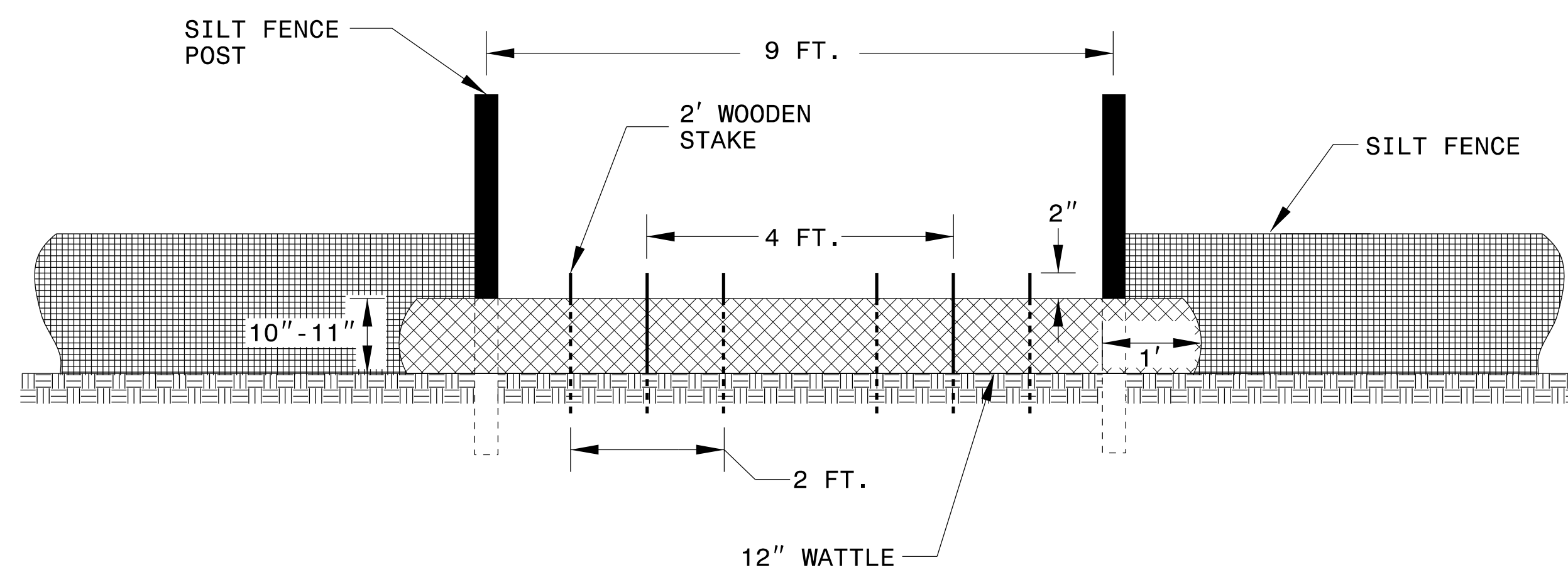
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# SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO. BR-0122	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW



VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

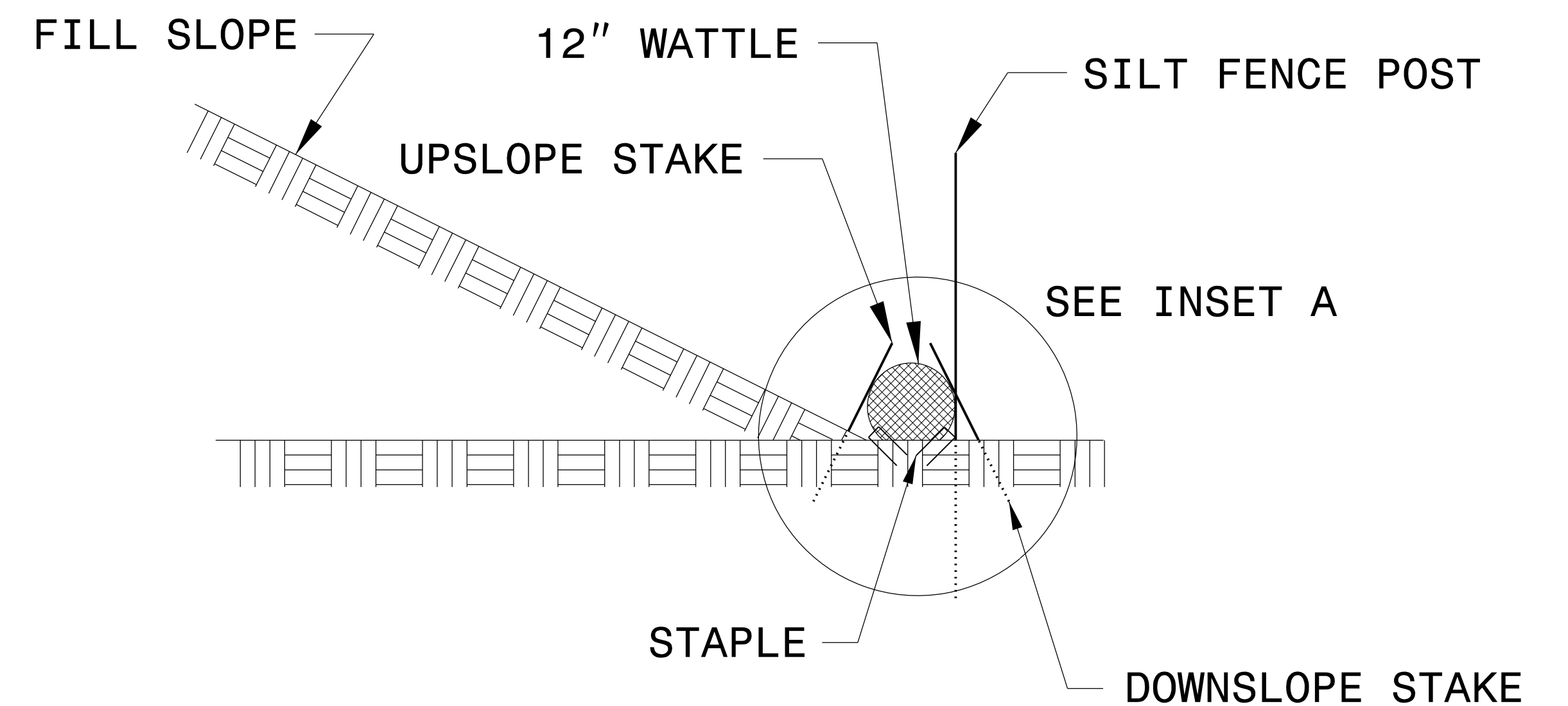
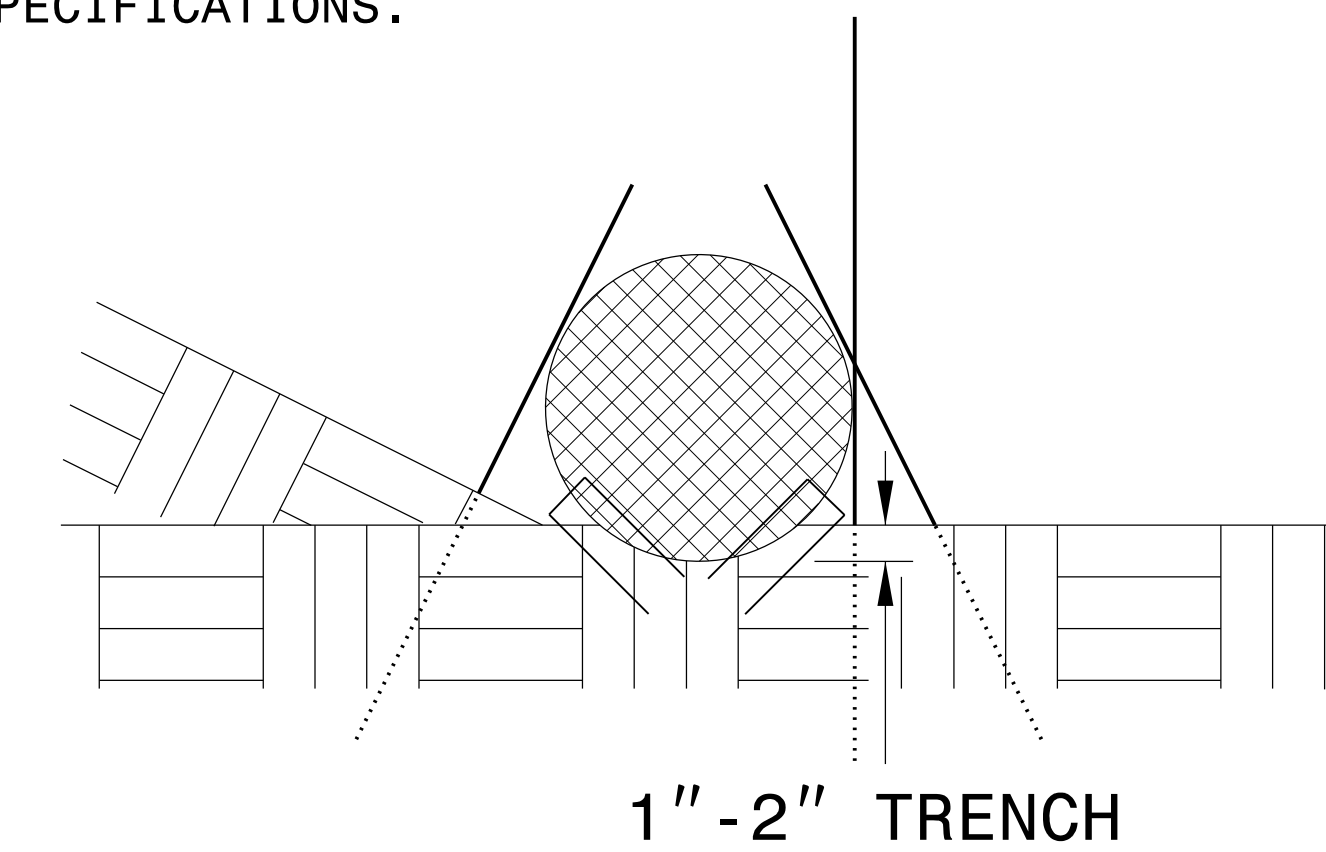
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A



SIDE VIEW

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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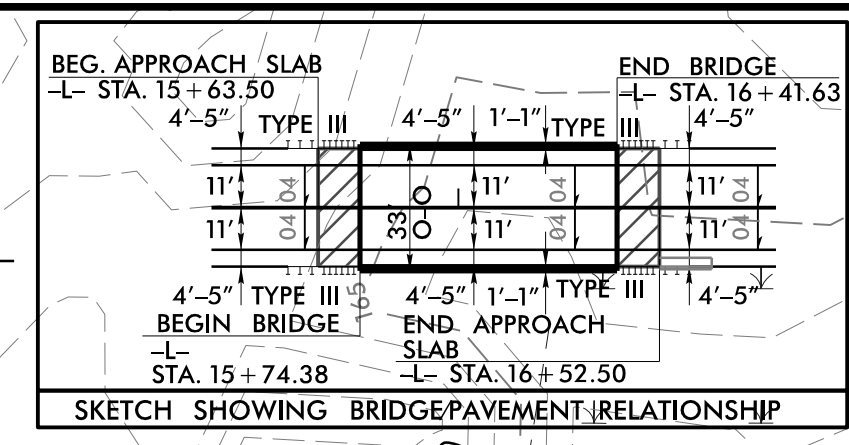


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PROJECT REFERENCE NO. <i>BR-0122</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.



**END NCDOT PROJECT BR-0122**  
**-L- POC STA. 17+99.00**

**BEGIN NCDOT PROJECT BR-0122**  
**-L- POT STA. 13+75.00**

NOTE: UTILIZE SPECIAL STILLING BASIN(S) WHERE APPLICABLE

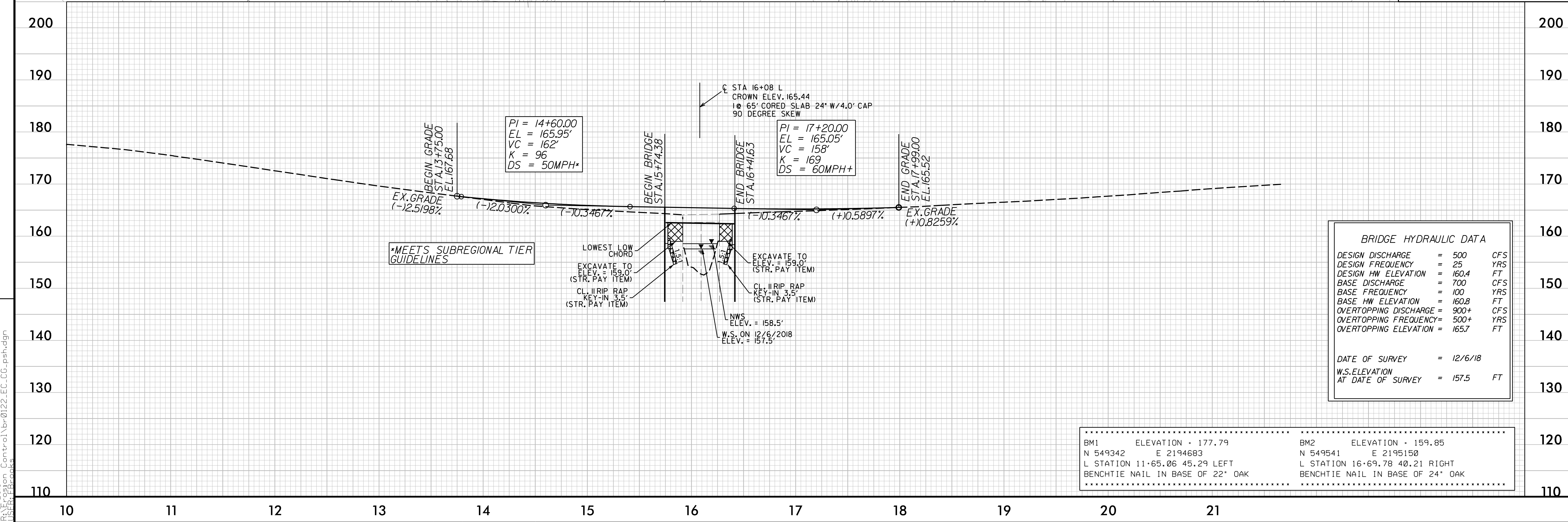
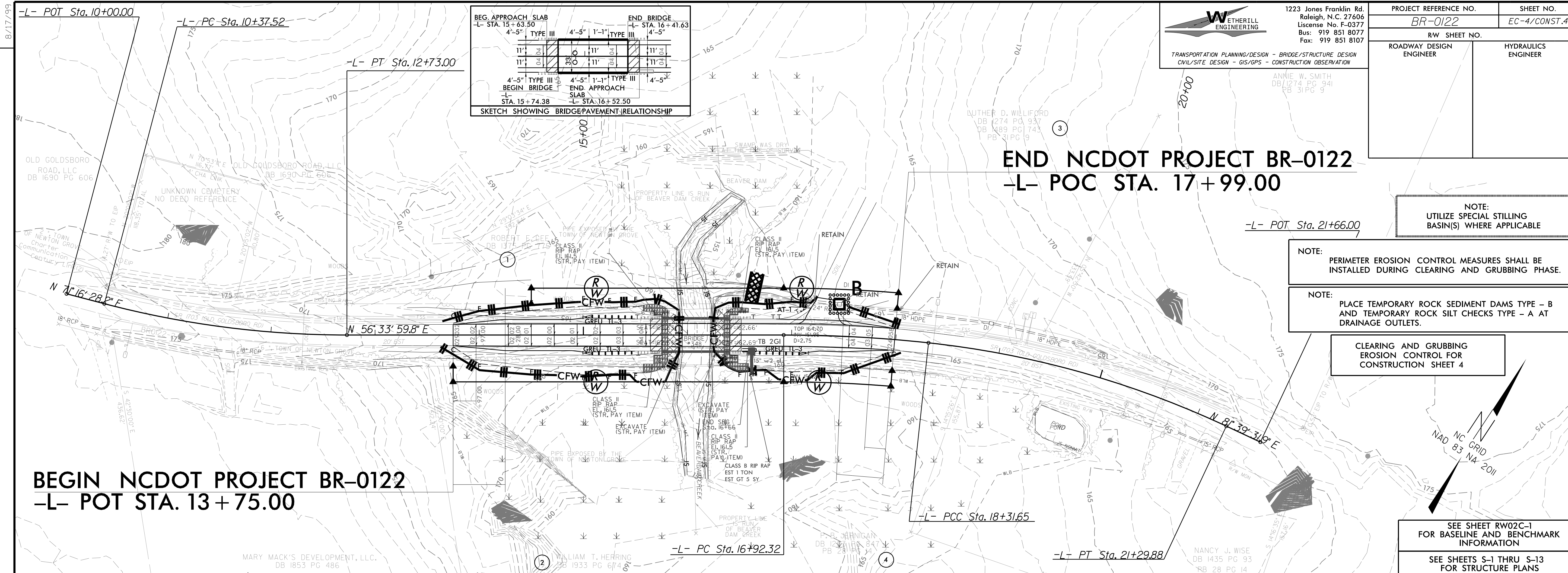
NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

SEE SHEET RW02C-1 FOR BASELINE AND BENCHMARK INFORMATION

SEE SHEETS S-1 THRU S-13 FOR STRUCTURE PLANS



BRIDGE HYDRAULIC DATA	
DESIGN DISCHARGE	= 500 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 160.4 FT
BASE DISCHARGE	= 700 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 160.8 FT
OVERTOPPING DISCHARGE	= 900+ CFS
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING ELEVATION	= 165.7 FT
DATE OF SURVEY	= 12/6/18
W.S. ELEVATION AT DATE OF SURVEY	= 157.5 FT

BM1 ELEVATION = 177.79	BM2 ELEVATION = 159.85
N 549342 E 2194683	N 549541 E 2195150
L STATION 11+65.06 45.29 LEFT	L STATION 16+69.78 40.21 RIGHT
BENCHTIE NAIL IN BASE OF 22' OAK	BENCHTIE NAIL IN BASE OF 24' OAK

REVISIONS

1/18/2019  
R:\Projects\0122\EC-DC\_psh.dgn  
LSTP:Farook

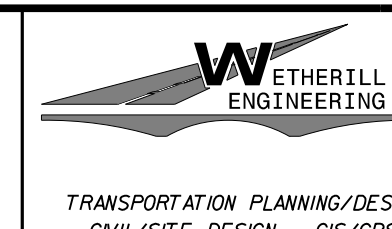
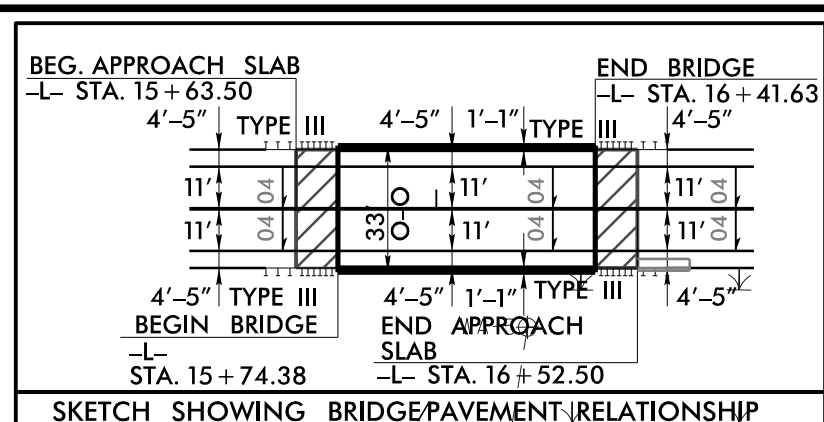


8/17/09

-L- POT Sta. 10+00.00

-L- PC Sta. 10+37.52

-L- PT Sta. 12+73.00



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ANNIE W. SMITH  
 DB 1274 PG 941  
 PB 31 PG 9

PROJECT REFERENCE NO. <b>BR-0122</b>	SHEET NO. <b>EC-5/CONST.4</b>
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

## END NCDOT PROJECT BR-0122 -L- POC STA. 17+99.00

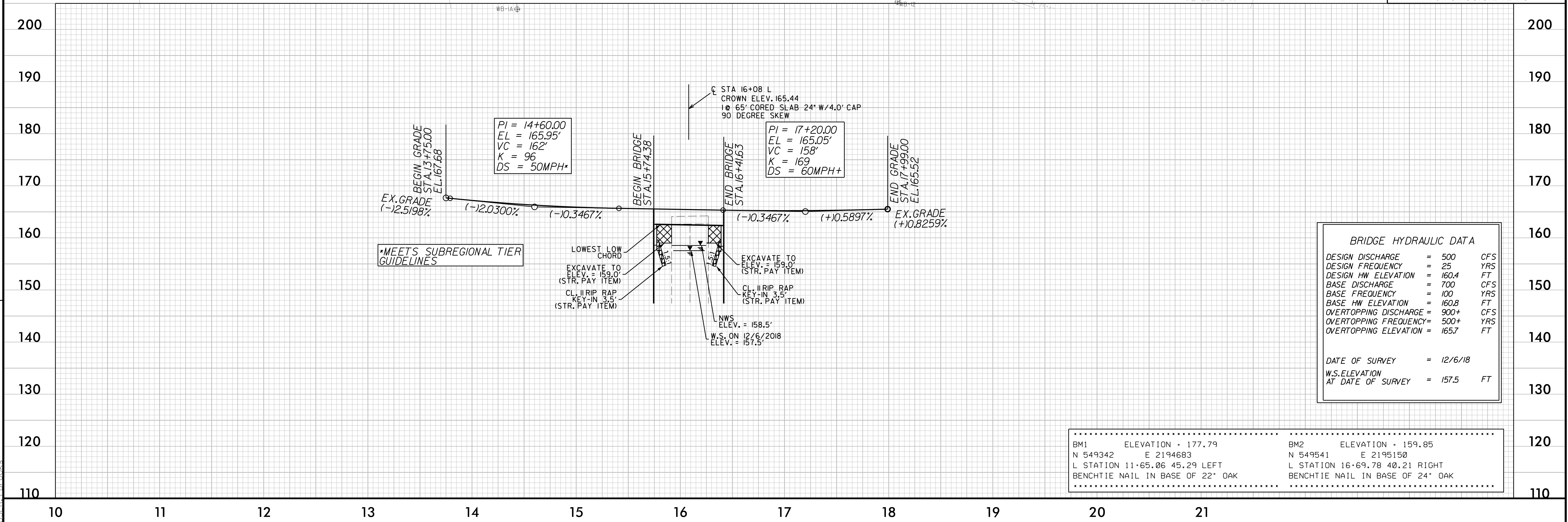
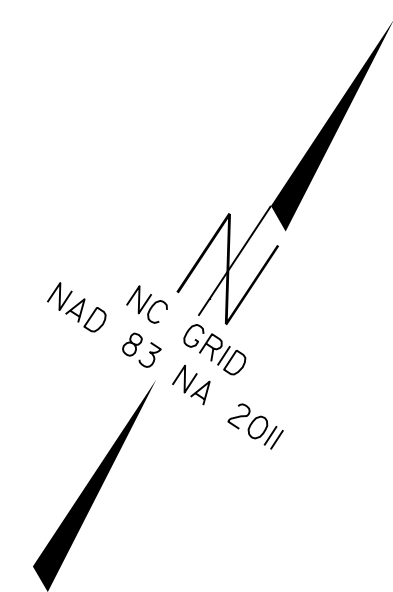
## BEGIN NCDOT PROJECT BR-0122 -L- POT STA. 13+75.00

NOTE:  
 UTILIZE SPECIAL STILLING BASIN(S) WHERE APPLICABLE

NOTE:  
 UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED.

SEE SHEET RW02C-1 FOR BASELINE AND BENCHMARK INFORMATION

SEE SHEETS S-1 THRU S-13 FOR STRUCTURE PLANS



BM1 ELEVATION = 177.79	BM2 ELEVATION = 159.85
N 549342 E 2194683	N 549541 E 2195150
L STATION 11+65.06 45.29 LEFT	L STATION 16+69.78 40.21 RIGHT
BENCHTIE NAIL IN BASE OF 22" OAK	BENCHTIE NAIL IN BASE OF 22" OAK

REVISIONS

11/18/2019  
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