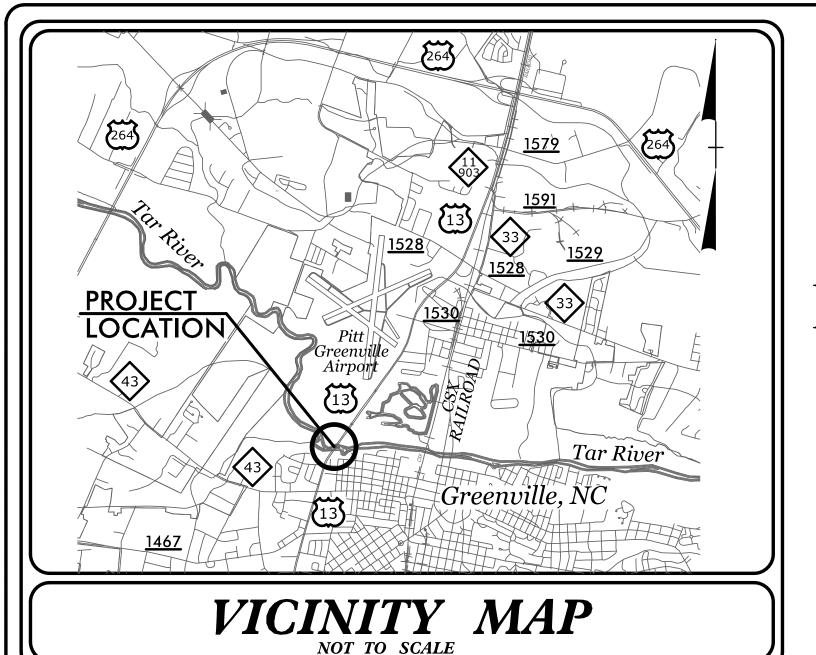
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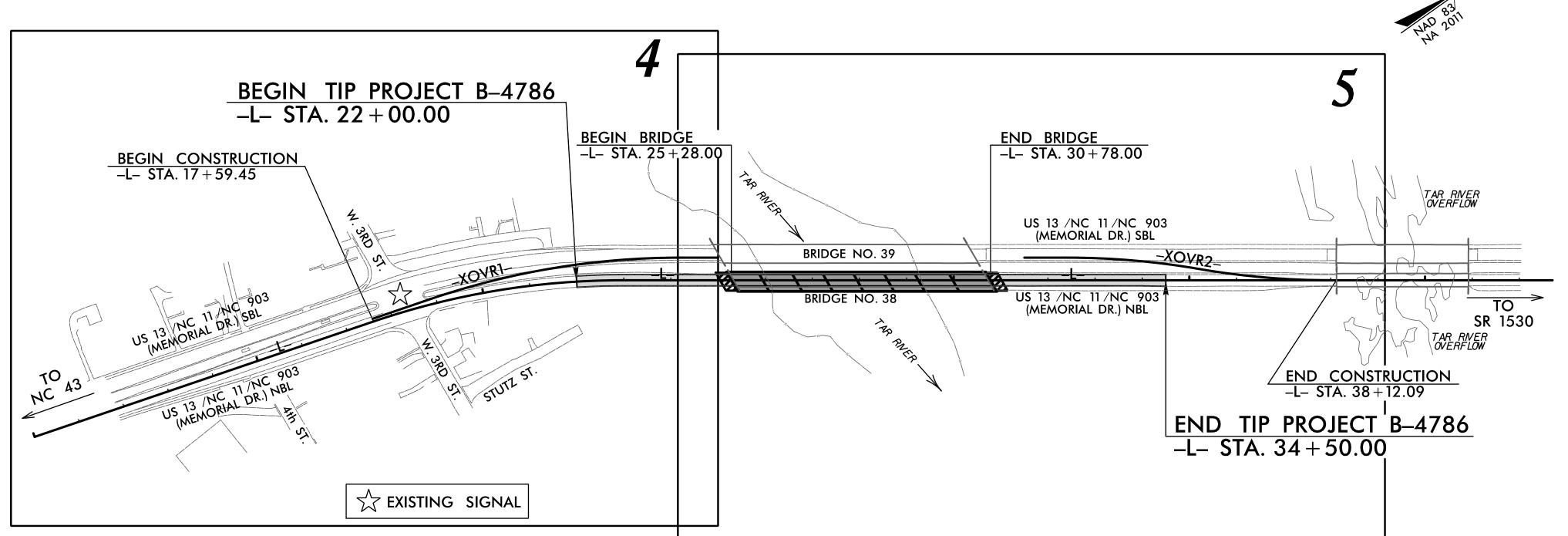
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

PITT COUNTY

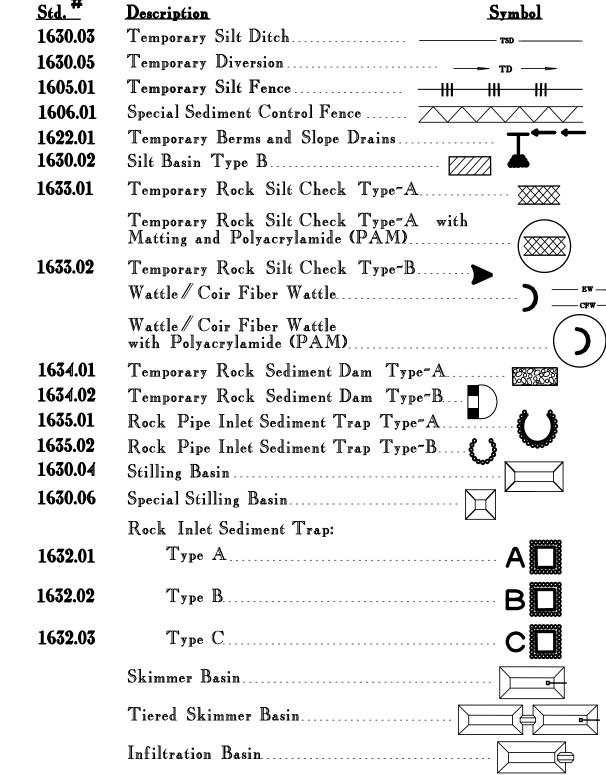
LOCATION: BRIDGE NO. 38 OVER TAR RIVER ON US 13 IN GREENVILLE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE



STATE	STATE PROJECT REFERENCE NO.		TO 1	SHEETS
N.C.		B-4786	EC-1	
STAT	E PROJ. NO.	F. A. PROJ. NO.	DESCRIPTI	ON
3822	22.1.FR2	BRSTP-0013(041)	PE	
382	22.2.2	BRSTP-0013(041)	R∕W, U	TIL

EROSION AND SEDIMENT CONTROL MEASURES



THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

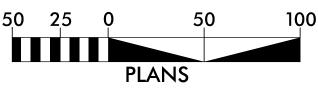
THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.

1645.01 Temporary Stream Crossing

GRAPHIC SCALE



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.



Prepared in the Office of:

TGS ENGINEERS

201 W. MARION ST-STE 200 SHELBY, NC 28150

Designed by:

Andrew H. Cochrane, PE

3015

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

1630.06 Special Stilling Basin

1631.01 Matting Installation

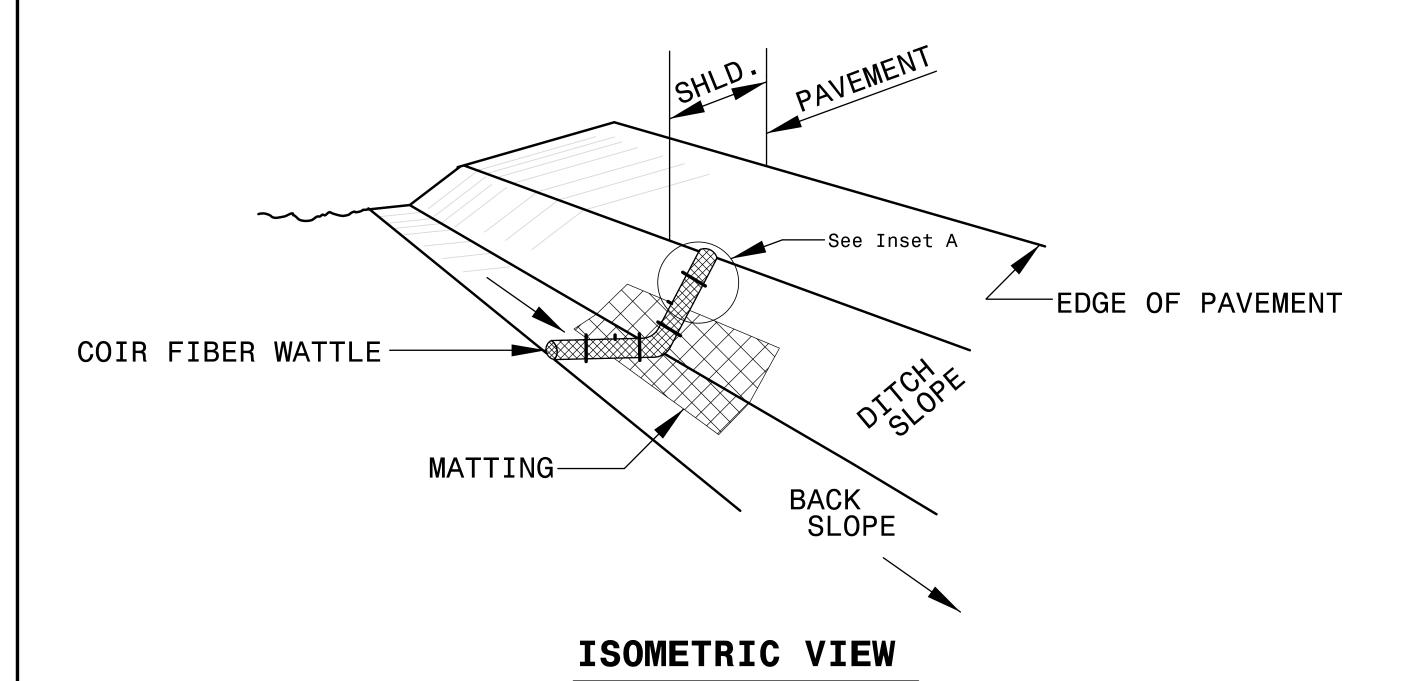
The following roadway <u>english</u> standards as appear in "Roadway Standard Drawings"— Roadway Design Unit — N. C. Department of Transportation — Raleigh, N. C., dated January 2018 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

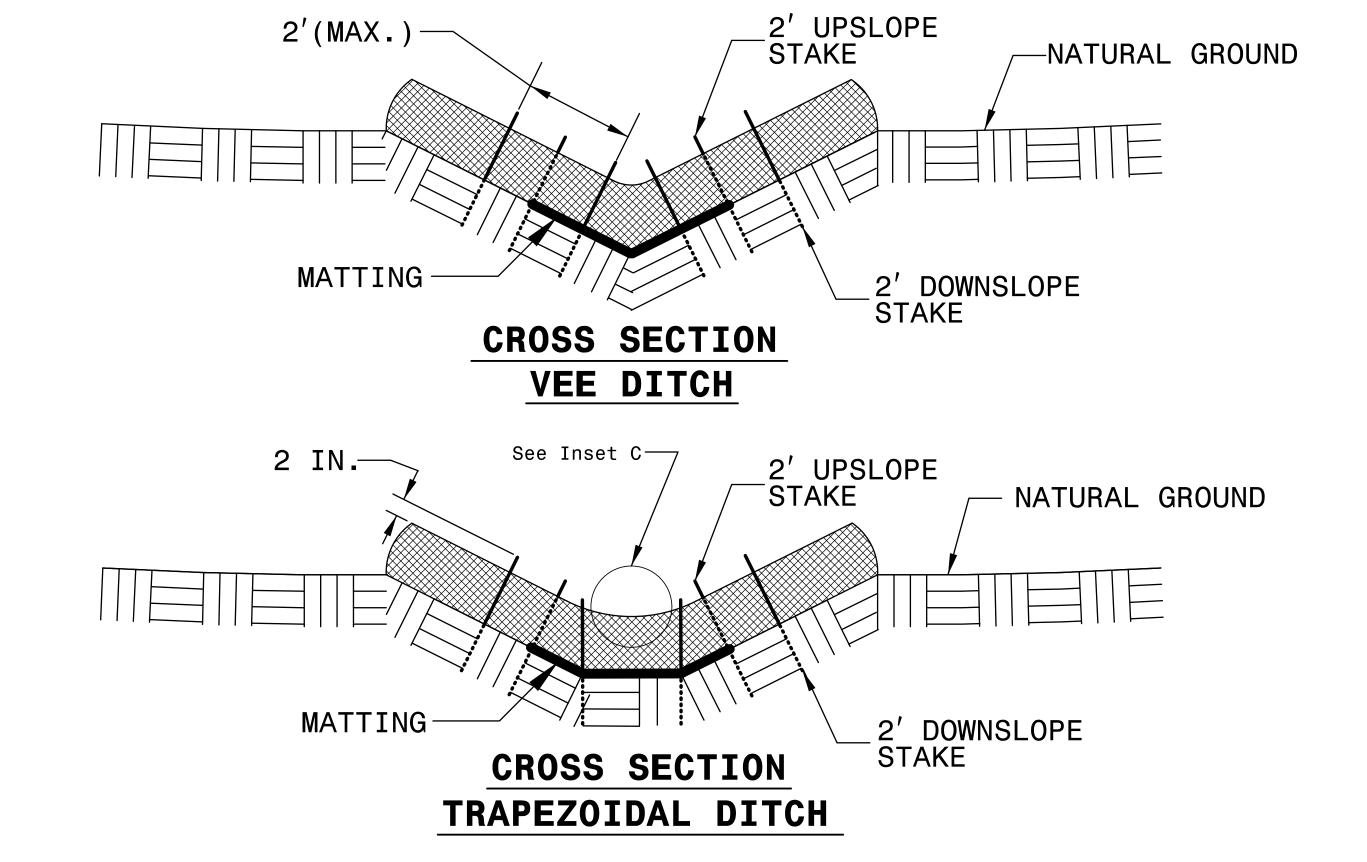
1632.01 Rock Inlet Sediment Trap Type A 1632.02 Rock Inlet Sediment Trap Type B 1604.01 Railroad Erosion Control Detail 1605.01 Temporary Silt Fence 1632.03 Rock Inlet Sediment Trap Type C 1606.01 Special Sediment Control Fence 1607.01 Gravel Construction Entrance 1633.01 Temporary Rock Silt Check Type 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 1635.01 Rock Pipe Inlet Sediment Trap Type A 1630.03 Temporary Silt Ditch 1630.04 Stilling Basin 1635.02 Rock Pipe Inlet Sediment Trap Type B 1640.01 Coir Fiber Baffle 1630.05 Temporary Diversion

36\Drainage\Erosion Con† User:acochrane

COIR FIBER	WATTLE	WITH
POLYACRYLAMID	E (PAM)	DETAIL

			_ •
PROJECT REFERENCE NO.		SHEET NO.	
B-4786		EC-2	1
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
	I		





NOTES:

FLOW

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

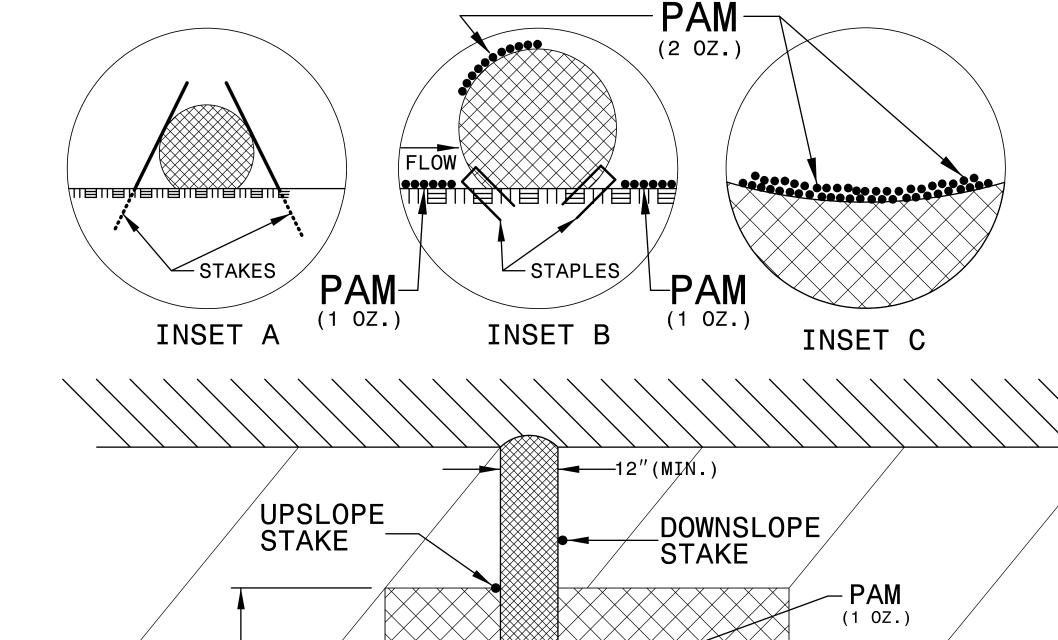
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

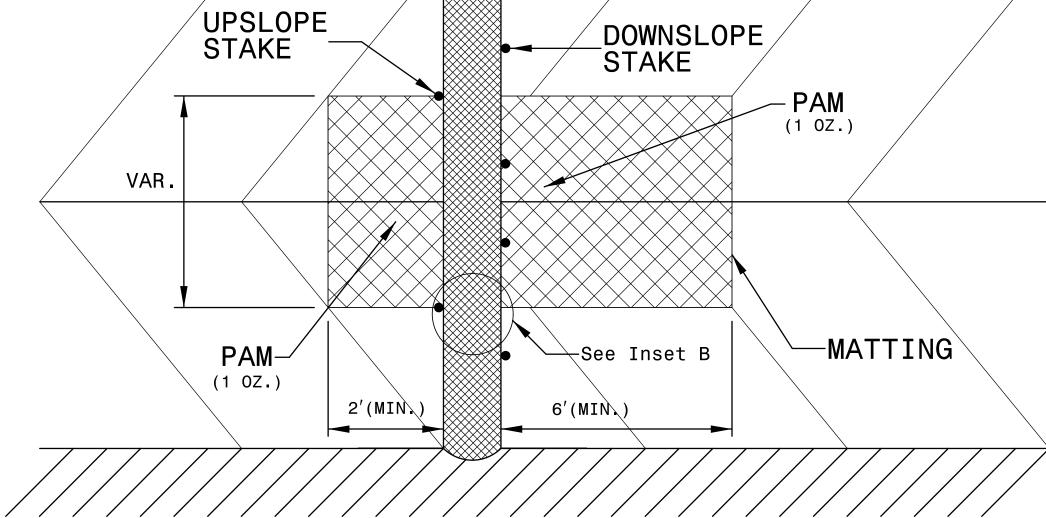
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





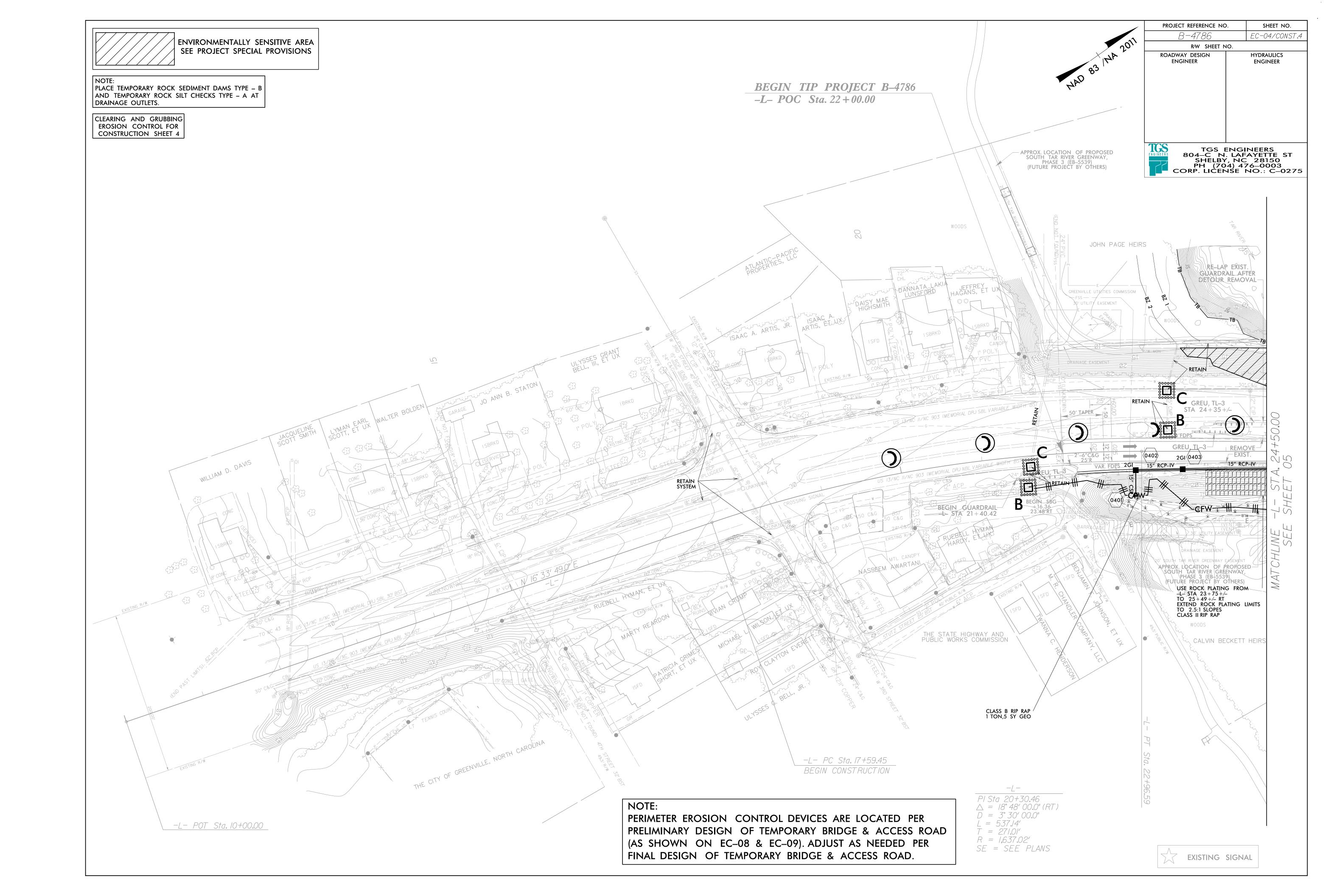
TOP VIEW

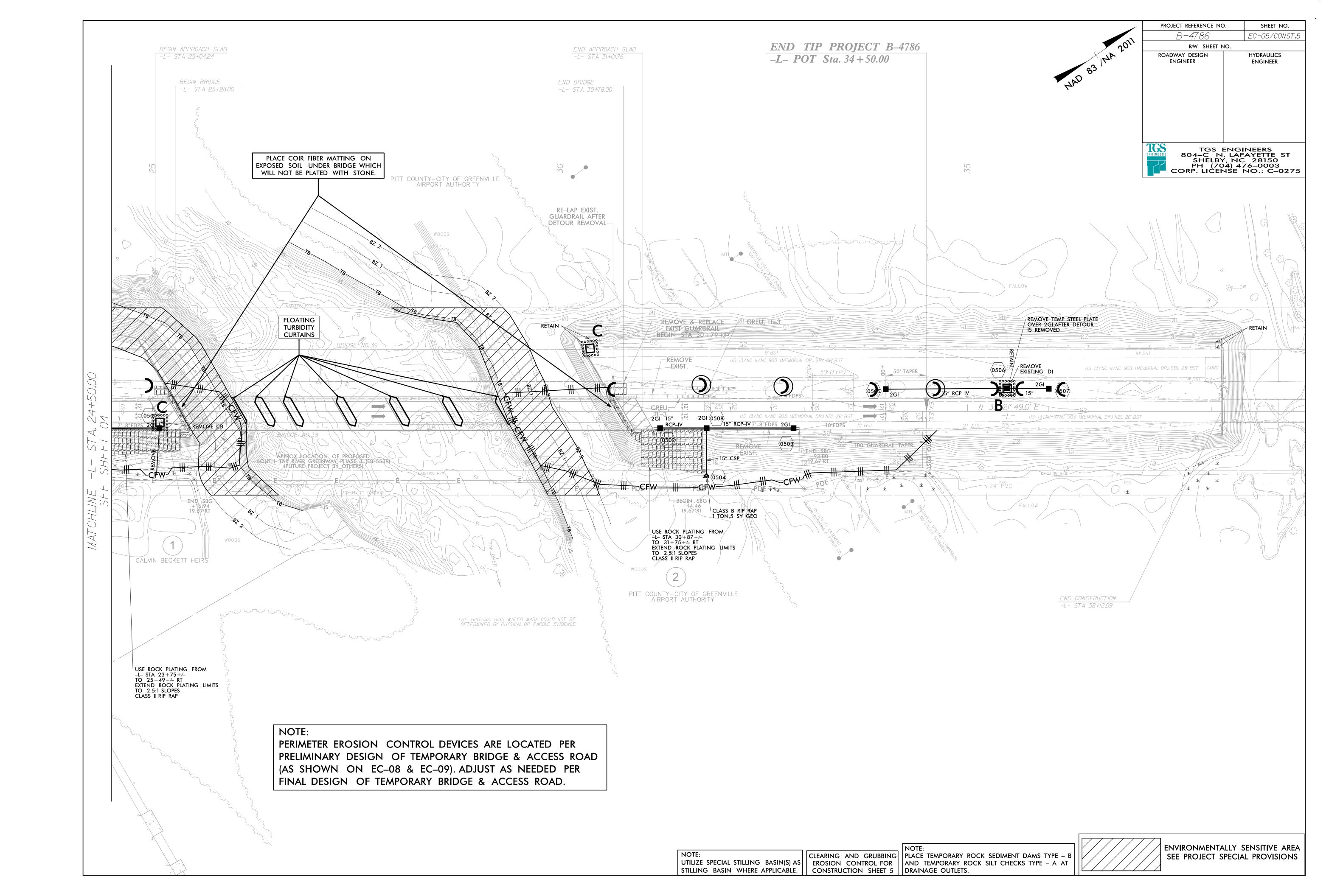
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

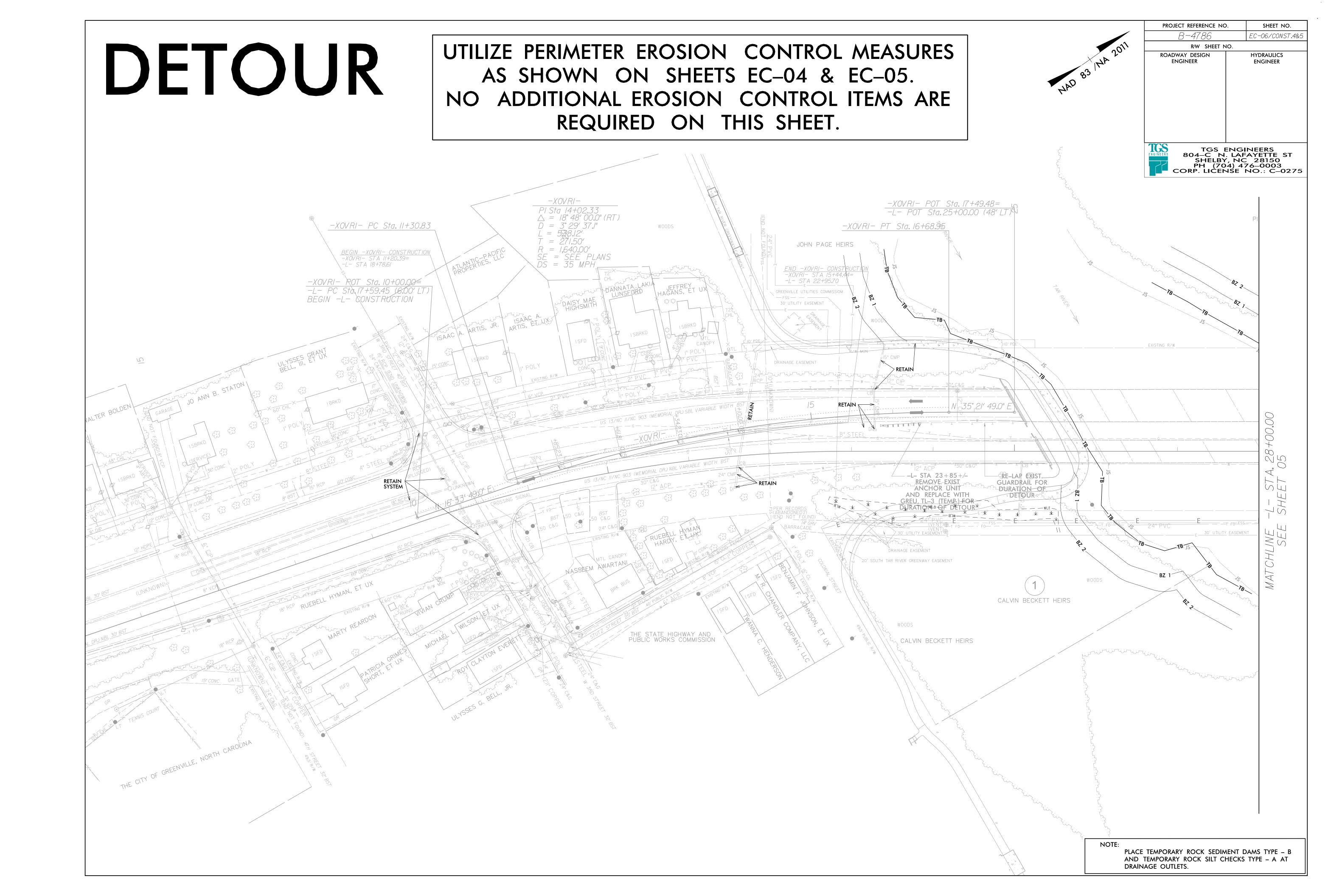
PROJECT REFERENCE NO.		SHEET NO.
B-4786		EC-3
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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	I4 DAYS	7 DAYS FOR SLOPES GREATER THAN 50'IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	I4 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

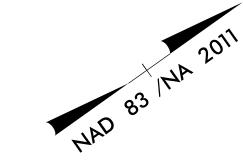






DETOUR

UTILIZE EROSION CONTROL MEASURES
AS SHOWN ON SHEETS EC-05 & EC-09.
NO ADDITIONAL EROSION CONTROL ITEMS ARE
REQUIRED ON THIS SHEET.



PROJECT REFERENCE NO.

B-4786

EC-07/CONST.5

RW SHEET NO.

ROADWAY DESIGN HYDRAULICS ENGINEER

ENGINEER

TGS ENGINEERS
804-C N. LAFAYETTE ST SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

