

TIP PROJECT: B-4020

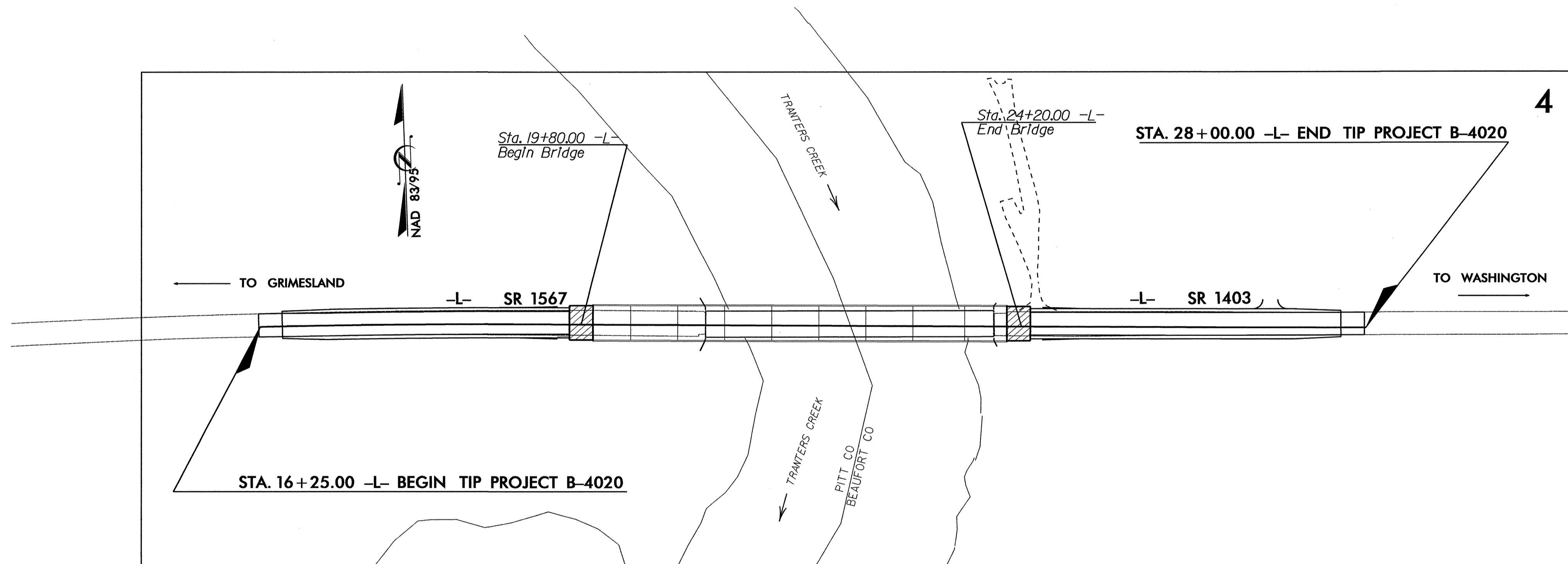
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

BEAUFORT / PITT COUNTIES

**LOCATION: BRIDGE NO. 8 OVER TRANTERS CREEK
ON SR 1403 /SR 1567 IN WASHINGTON**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE



| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | B-4020 | EC-1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| | | | |
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| | | | |
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EROSION AND SEDIMENT CONTROL MEASURES

| Std. # | Description | Symbol |
|---------|---|--------|
| | Streambank Reforestation..... | |
| 1630.03 | Temporary Silt Ditch..... | |
| 1630.05 | Temporary Diversion..... | |
| 1605.01 | Temporary Silt Fence..... | |
| 1606.01 | Special Sediment Control Fence..... | |
| 1622.01 | Temporary Berms and Slope Drains..... | |
| 1630.01 | Riser Basin..... | |
| 1630.02 | Silt Basin Type B..... | |
| 1633.01 | Temporary Rock Silt Check Type-A..... | |
| | Temporary Rock Silt Check Type-B..... | |
| 1634.01 | Temporary Rock Sediment Dam Type-A..... | |
| 1634.02 | Temporary Rock Sediment Dam Type-B..... | |
| 1635.01 | Rock Pipe Inlet Sediment Trap Type-A..... | |
| 1635.02 | Rock Pipe Inlet Sediment Trap Type-B..... | |
| 1630.04 | Stilling Basin..... | |
| | Rock Inlet Sediment Trap: | |
| 1632.01 | Type A..... | |
| 1632.02 | Type B..... | |
| 1632.03 | Type C..... | |
| | Skimmer Basin..... | |
| | Tiered Skimmer Basin..... | |

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

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

**ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT**

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

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

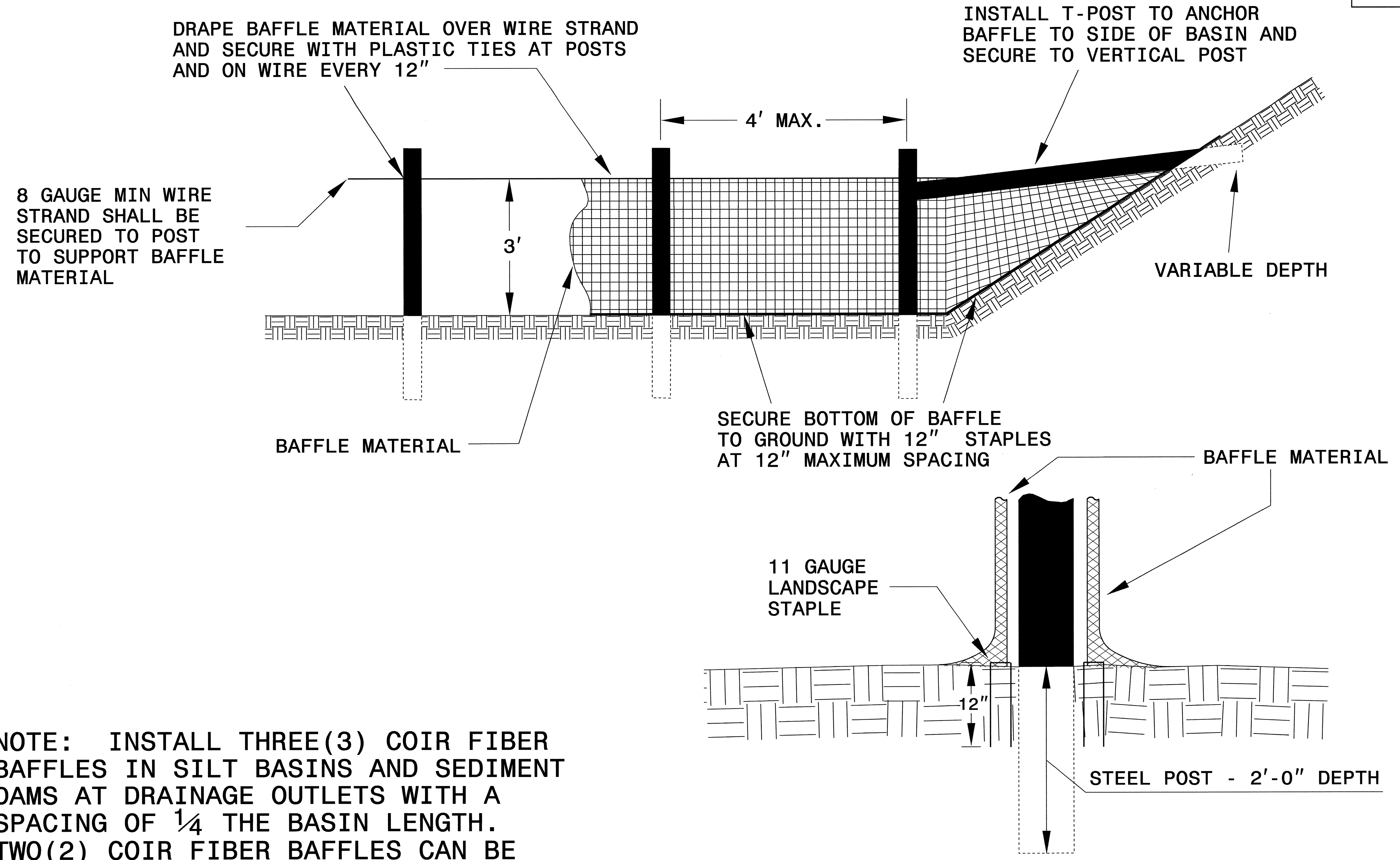
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

| | |
|--|--|
| 1605.01 Temporary Silt Fence | 1632.02 Rock Inlet Sediment Trap Type B |
| 1607.01 Gravel Construction Entrance | 1633.01 Temporary Rock Silt Check Type A |
| 1622.01 Temporary Berms and Slope Drains | 1634.02 Temporary Rock Sediment Dam Type B |
| 1630.03 Temporary Silt Ditch | |

23-JUL-2007 14:01
Project: B-4020-ENVIRONMENTAL\details\b-4020-rdjt-rah.dgn

| | |
|---------------------------------|------------------------|
| PROJECT REFERENCE NO. B-4020 | SHEET NO. EC-2 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

COIR FIBER BAFFLE DETAIL

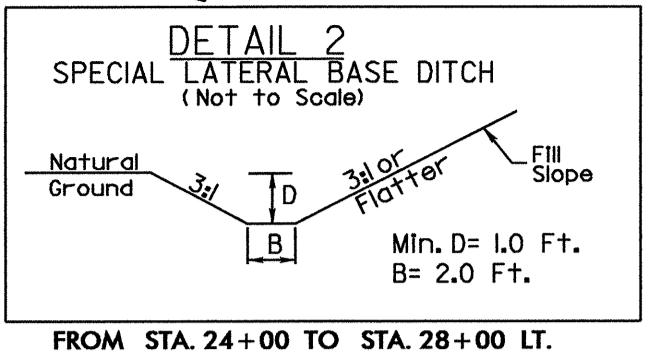


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

8/17/09

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| B-4020 | EC-3/CONST.4 |
| RW SHEET NO. | HYDRAULICS ENGINEER |
| ROADWAY DESIGN ENGINEER | |



$PI Sta 16+06.16$
 $\Delta = 3' 17'' 56.26'' (RT)$
 $D = 0' 30' 00.0''$
 $L = 659.79'$
 $T = 329.99'$
 $R = 11,459.16'$
 $DS = 60 mph$

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 4

NOTE:
 UTILIZE TEMPORARY ROCK SILT CHECK TYPE - A
 AS STILLING BASIN WHERE APPLICABLE.

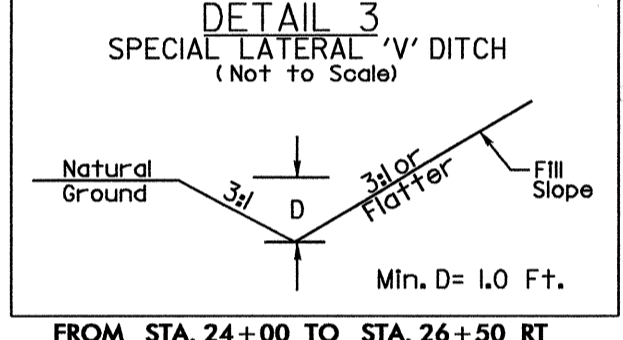
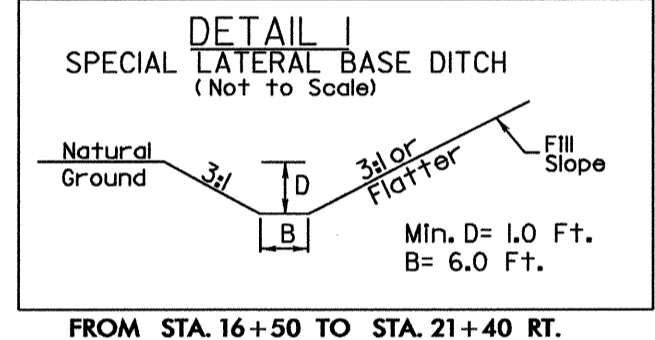
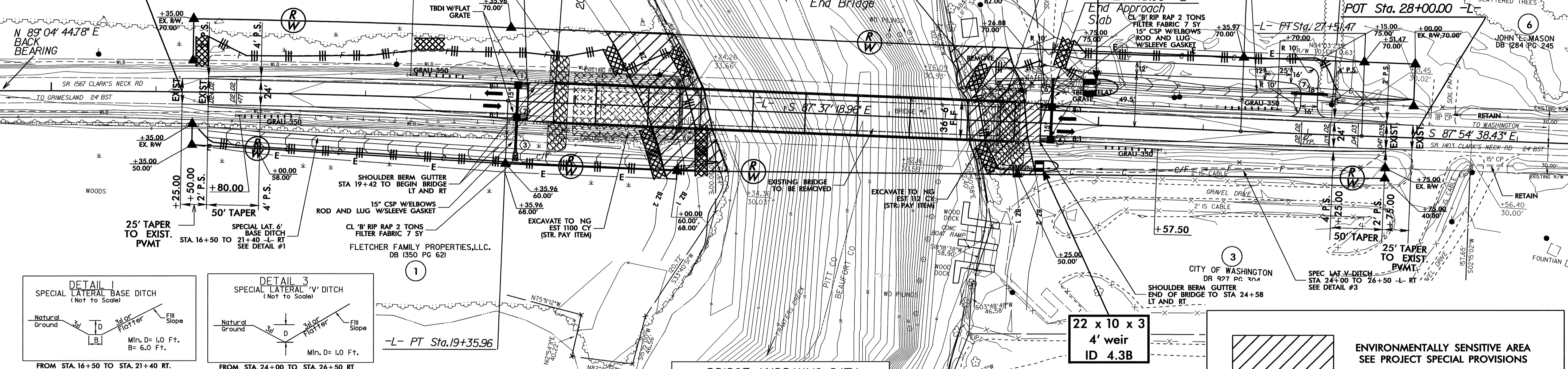
NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

INSTALL FILTER FABRIC UNDER
 TEMPORARY ROCK SILT CHECK(S)
 TYPE A IN PERMITTED WETLANDS.

ENGLISH
 $PI Sta 26+93.72$
 $\Delta = 0' 17'' 19.47'' (LT)$
 $D = 0' 15' 00.0''$
 $L = 115.50'$
 $T = 57.75'$
 $R = 22,918.31'$
 $DS = 60 mph$

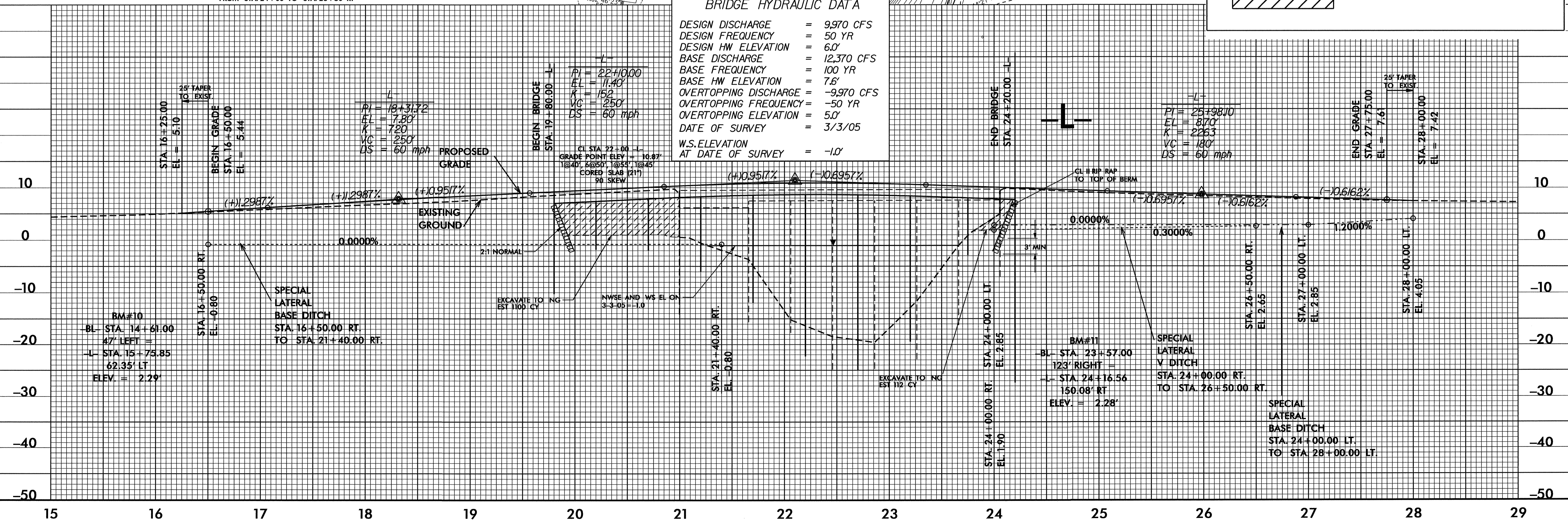
BEGIN TIP PROJECT B-4020
BEGIN CONSTRUCTION
POC Sta. 16+25.00 -L-

END TIP PROJECT B-4020
END CONSTRUCTION
POT Sta. 28+00.00 -L-



BRIDGE HYDRAULIC DATA

| | |
|----------------------------------|--------------|
| DESIGN DISCHARGE | = 9,970 CFS |
| DESIGN FREQUENCY | = 50 YR |
| DESIGN HW ELEVATION | = 6.0' |
| BASE DISCHARGE | = 12,370 CFS |
| BASE FREQUENCY | = 100 YR |
| BASE HW ELEVATION | = 7.6' |
| OVERTOPPING DISCHARGE | = -9,970 CFS |
| OVERTOPPING FREQUENCY | = -50 YR |
| OVERTOPPING ELEVATION | = 5.0' |
| DATE OF SURVEY | = 3/3/05 |
| W.S. ELEVATION AT DATE OF SURVEY | = -1.0' |



ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

