TIP PROJECT: B-4094

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4094	EC-1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

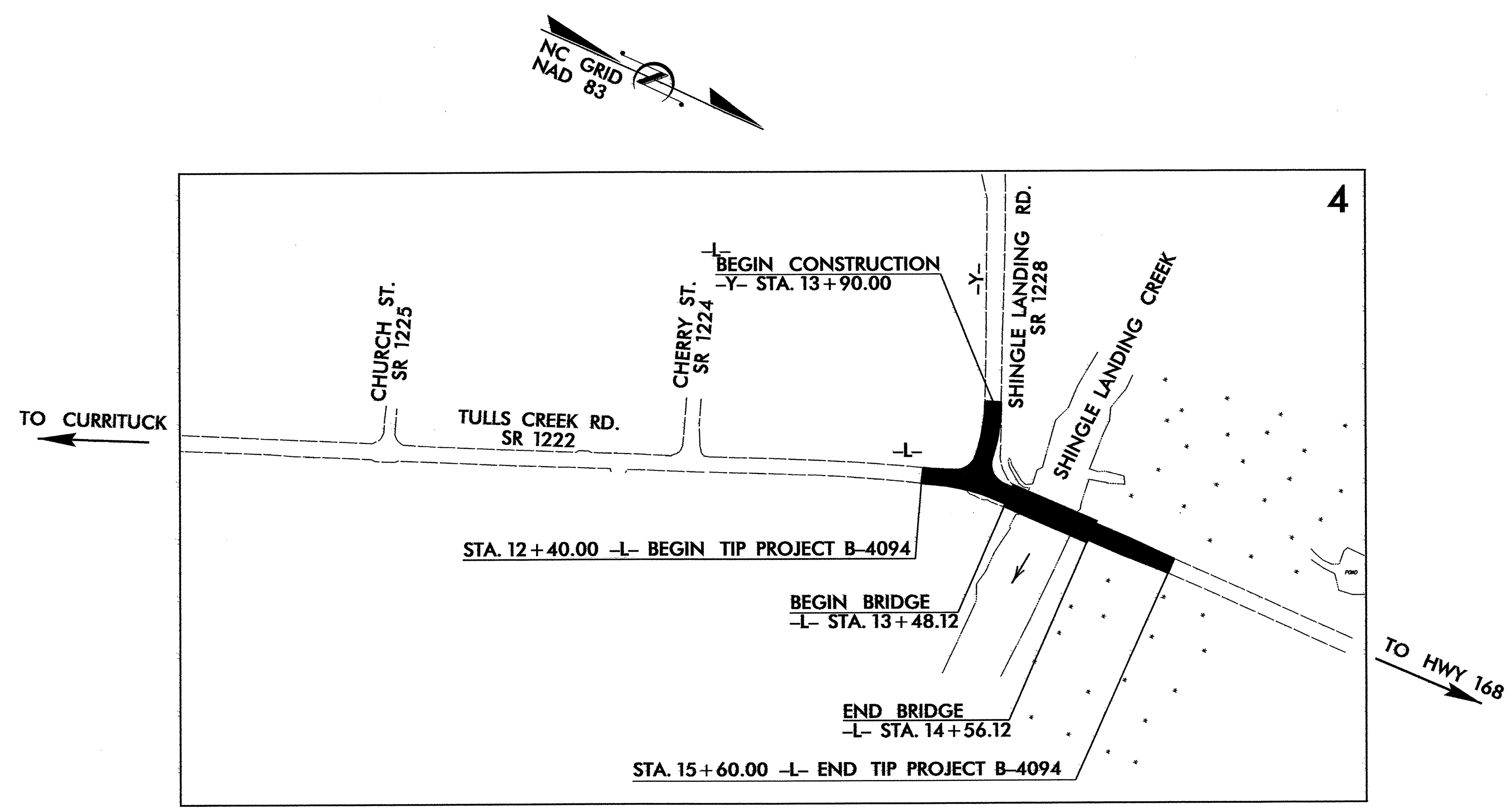
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CURRITUCK COUNTY

LOCATION: BRIDGE NO. 28 OVER SHINGLE LANDING CREEK ON SR 1222

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
	Wattle	
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	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

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

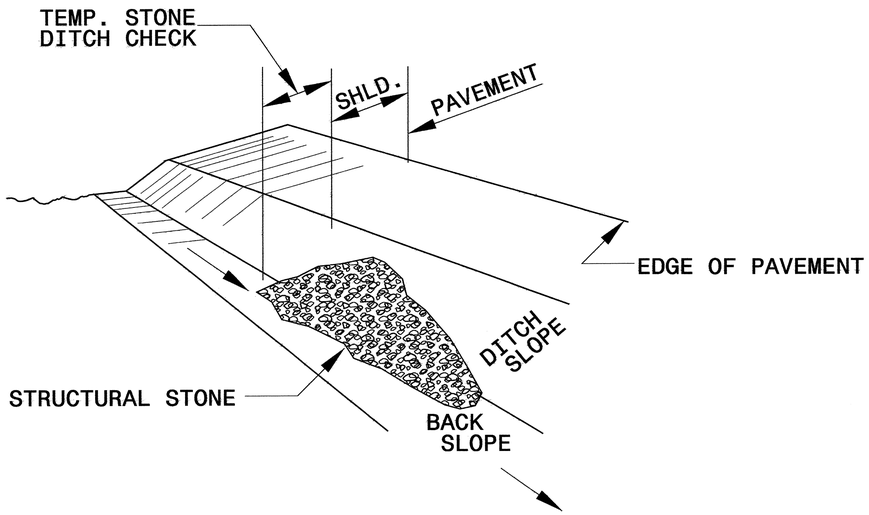
The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated July 18, 2006 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence
1606.01 Special Sediment Control Fence
1607.01 Gravel Construction Entrance
1630.05 Temporary Diversion
1633.01 Temporary Rock Silt Check Type A
1635.02 Rock Pipe Inlet Sediment Trap Type B

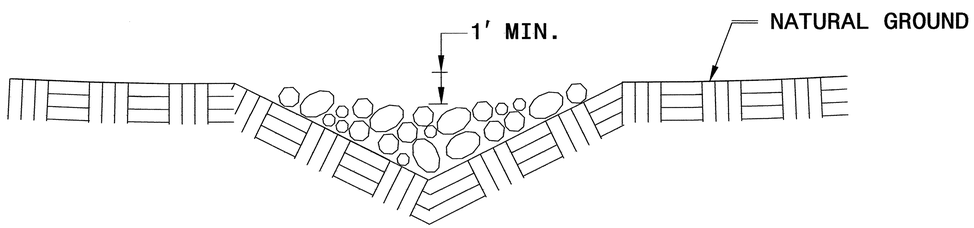
07-NOV-2008 13:48
r:\environmental\design\b4094_ec_tsh.dgn
cdrierson AT RENV221445

PROJECT REFERENCE NO.	SHEET NO.
B-4094	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

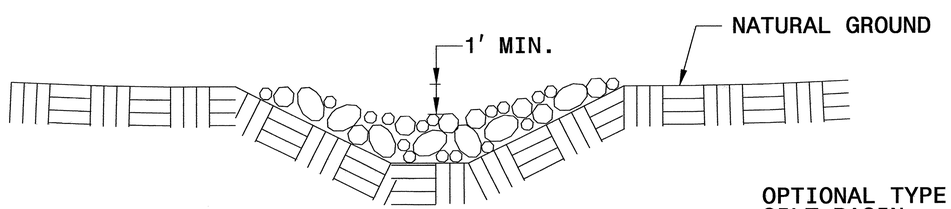
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH

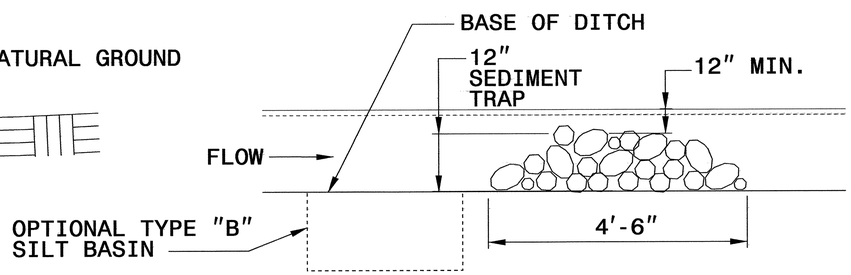


CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

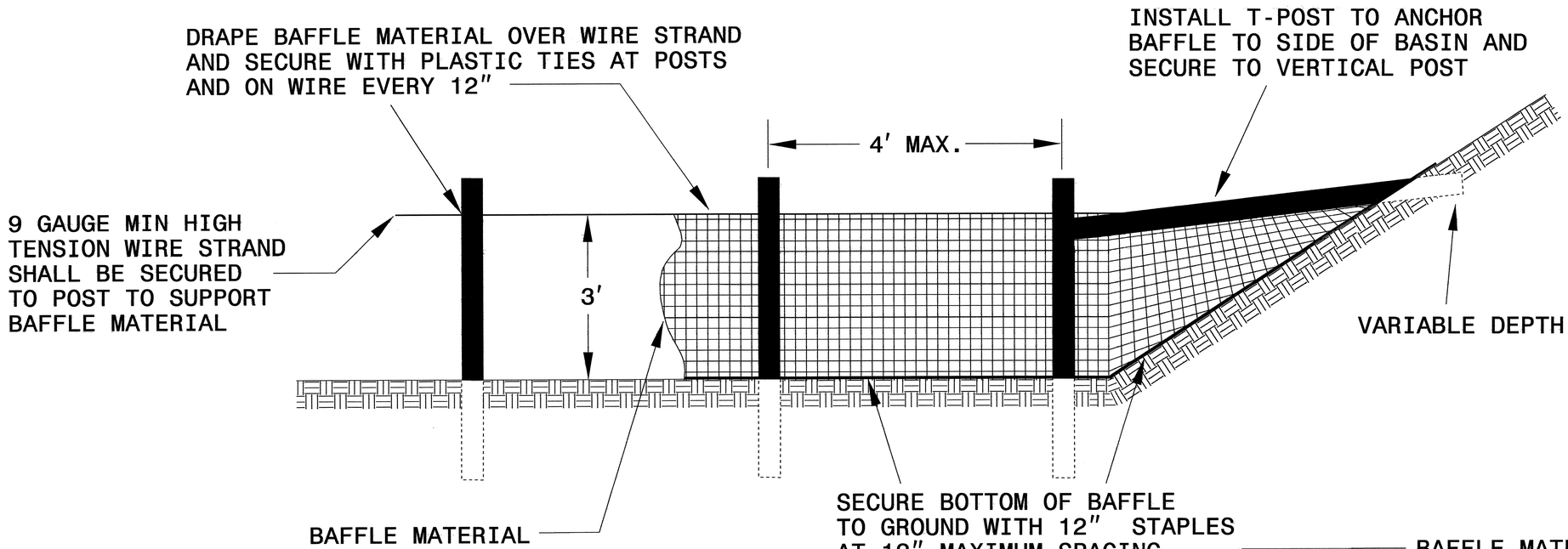
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

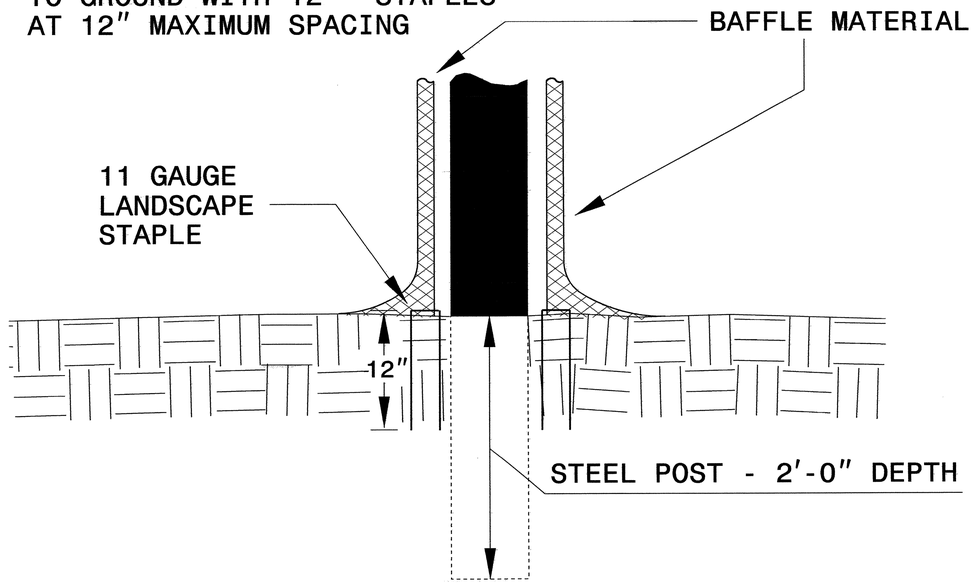


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4094	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



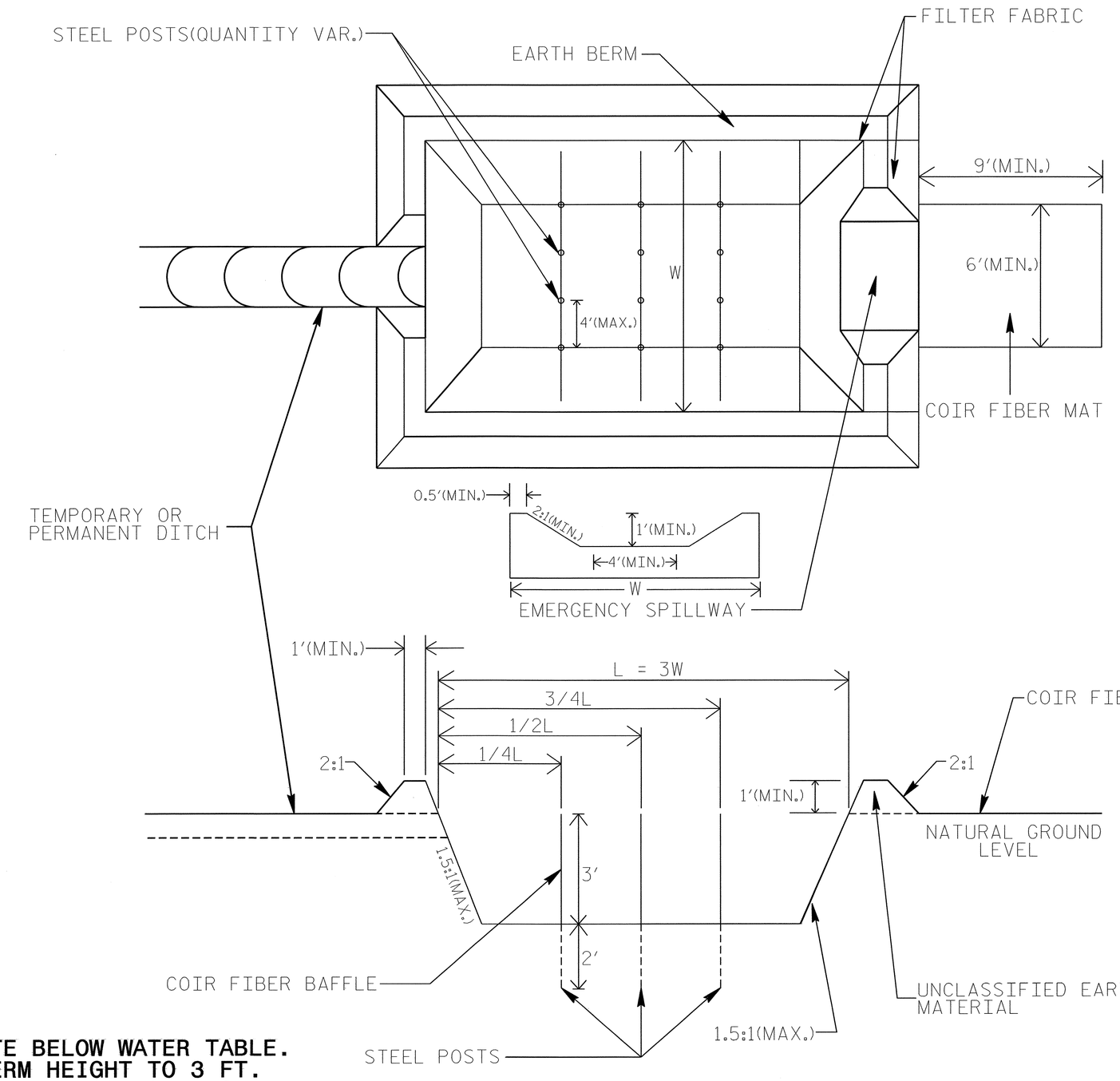


BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ 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 1/3 THE BASIN LENGTH.

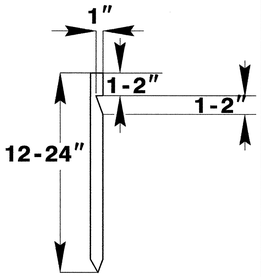
PROJECT REFERENCE NO.	SHEET NO.
B-4094	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INFILTRATION BASIN WITH BAFFLES DETAIL

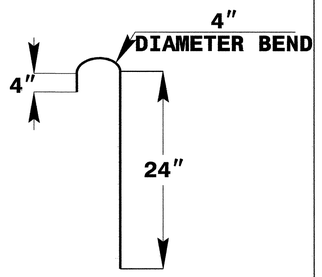


NOTES:
1. DO NOT EXCAVATE BELOW WATER TABLE.
2. LIMIT EARTH BERM HEIGHT TO 3 FT.
3. AVOID COMPACTING BOTTOM OF BASIN.
4. THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
5. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE INTO BASIN.

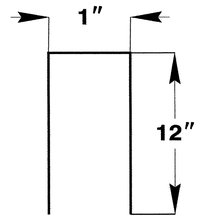
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

PROJECT REFERENCE NO.	SHEET NO.
B-4094	EC-3

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-Y-	13+90	14+75	RT	70
4	-Y-	13+90	14+30	LT	35
4	-L-	12+50	12+80	LT	35
				SUBTOTAL	140
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					100
				TOTAL	240
				SAY	250

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

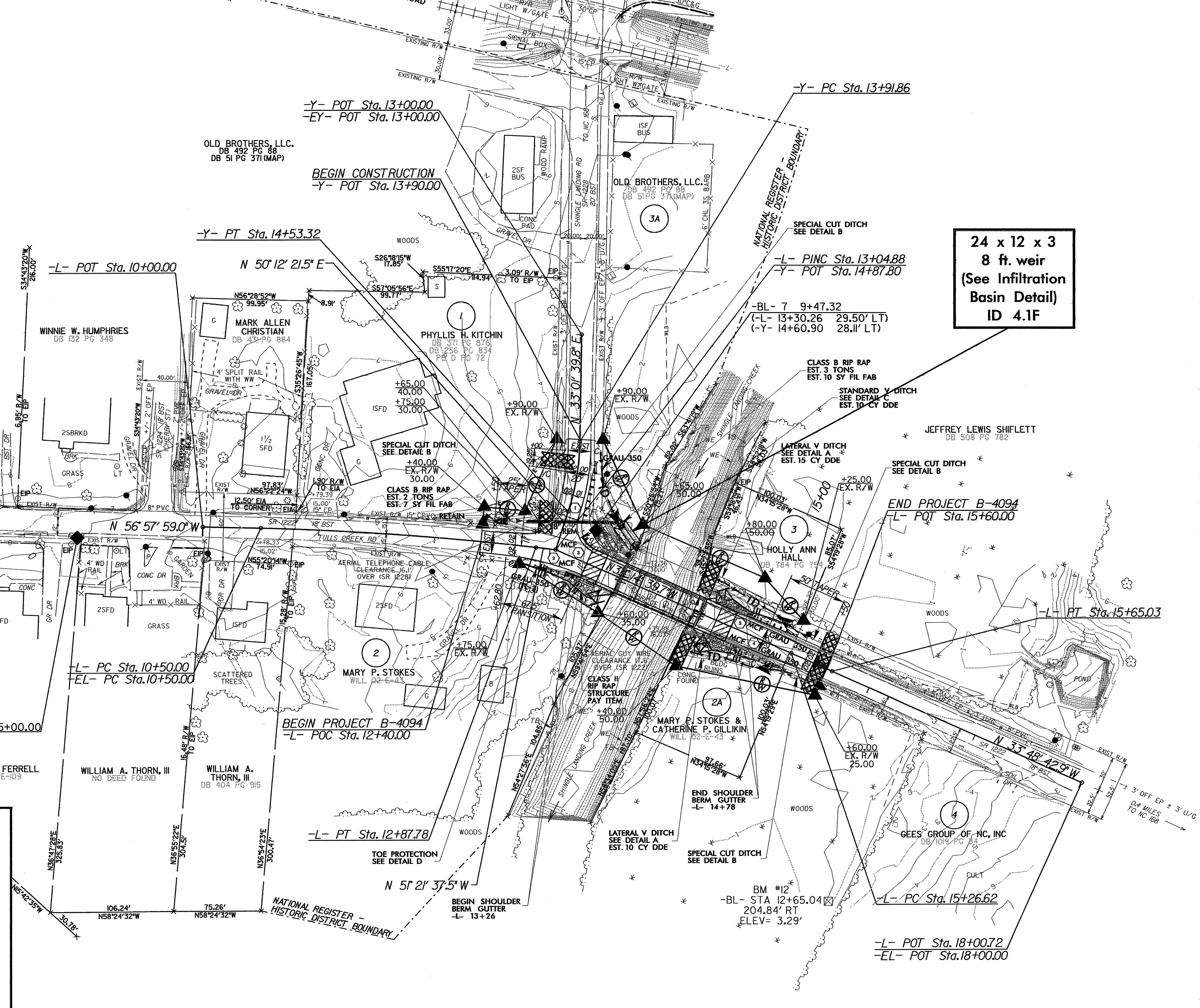
PROJECT REFERENCE NO.	SHEET NO.
B-4094	EC-04/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

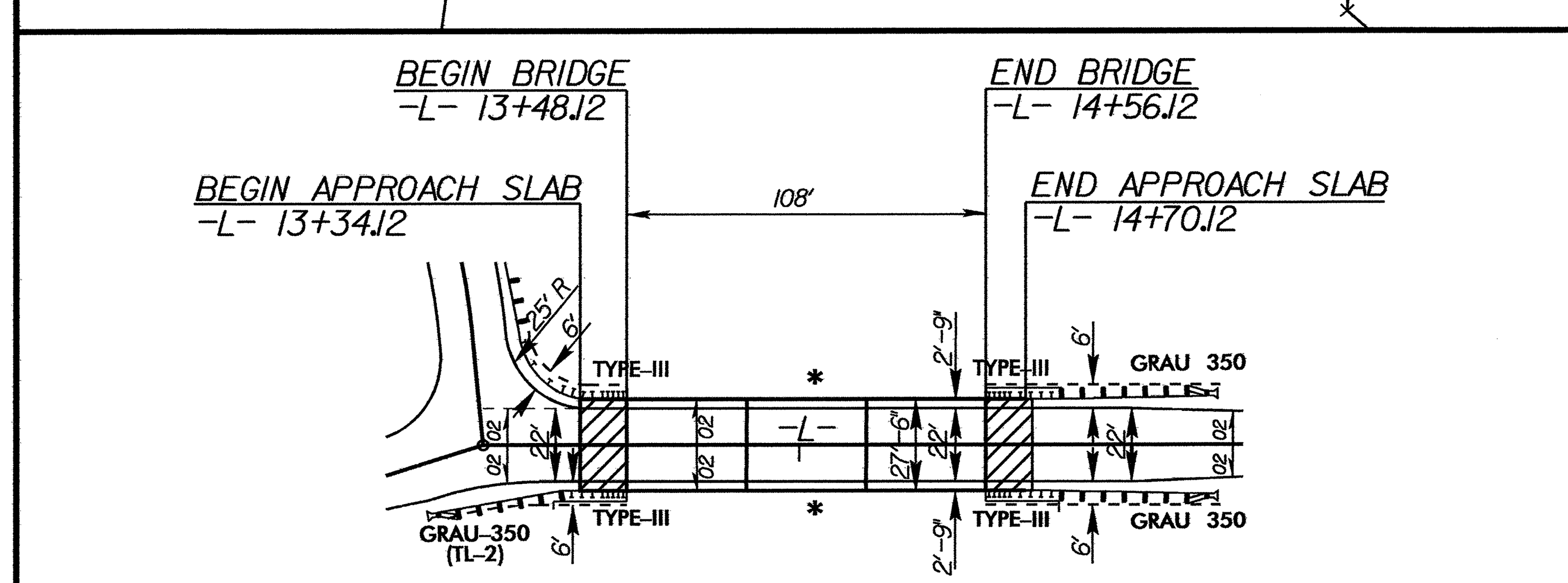
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

NOTE:
UTILIZE INFILTRATION BASIN AS STILLING BASIN WHERE APPLICABLE.



NAD 83
NC GRID
NATIONAL REGISTER - HISTORIC DISTRICT BOUNDARY
NORFOLK SOUTHERN RAILROAD
MTL DOT TRAFFIC SIGNAL POLE
-Y- POT Sta. 13+00.00
-EY- POT Sta. 13+00.00
BEGIN CONSTRUCTION
-Y- POT Sta. 13+90.00
-Y- PC Sta. 13+91.86
-Y- PT Sta. 14+53.32
N 50° 12' 21.5" E
-L- POT Sta. 10+00.00
OLD BROTHERS, LLC.
DB 492 PG 88
DB 51 PG 371 (MAP)
SPECIAL CUT DITCH SEE DETAIL B
24 x 12 x 3
8 ft. weir
(See Infiltration Basin Detail)
ID 4.1F
-L- PINC Sta. 13+04.88
-Y- POT Sta. 14+87.80
-BL- 7 9+47.32
(-L- 13+30.26 29.50' LT)
(-Y- 14+60.90 28.11' LT)
CLASS B RIP RAP
EST. 3 TONS
EST. 10 SY FIL FAB
STANDARD V DITCH SEE DETAIL C EST. 10 CY DDE
LATERAL V DITCH SEE DETAIL A EST. 15 CY DDE
JEFFREY LEWIS SHIFLETT
DB 508 PG 782
EVELYN BALLANCE CREEKMORE
WILL 89-E-47
ROBERT E. LEE
DB 105 PG 787
JOSEPHINE MARIA WEST
DB 191 PG 251
SARA C. BELL LIFE ESTATE
WILL 78-E-87
WINNIE W. HUMPHRIES
DB 132 PG 348
MARK ALLEN CHRISTIAN
DB 43 PG 884
PHYLLIS H. KITCHIN
MOYOCK BAPTIST CHURCH
DB 81 PG 51
N 56° 57' 59.0" W
N 33° 01' 39.8" E
END PROJECT B-4094
-L- POT Sta. 15+60.00
HOLLY ANN HALL
DB 784 PG 754
-L- PT Sta. 15+65.03
CURRITUCK CO. BOARD OF EDUCATION
NO DEED FOUND
J. MARTIN JARVIS
DB 379 PG 901
-L- PC Sta. 10+50.00
-EL- PC Sta. 10+50.00
MARY P. STOKES
WILL 02-E-43
BEGIN PROJECT B-4094
-L- POC Sta. 12+40.00
MARY P. STOKES & CATHERINE P. GILLIKIN
WILL 02-E-43
-BL- 6 5+00.00
LENORE E. FERRELL
WILL 89-E-109
WILLIAM A. THORN, III
NO DEED FOUND
WILLIAM A. THORN, III
DB 404 PG 915
-L- PT Sta. 12+87.78
TOE PROTECTION SEE DETAIL D
N 51° 21' 37.5" W
BEGIN SHOULDER BERM GUTTER
-L- 13+26
LATERAL V DITCH SEE DETAIL A EST. 10 CY DDE
SPECIAL CUT DITCH SEE DETAIL B
END SHOULDER BERM GUTTER
-L- 14+78
BM #12
-BL- STA 12+65.04
204.84' RT
ELEV= 3.29'
-L- PC Sta. 15+26.62
-L- POT Sta. 18+00.72
-EL- POT Sta. 18+00.00
GEES GROUP OF NC, INC
DB 1019 PG 84
N 33° 48' 42.9" W
0.4 MILES TO NC 168



SKETCH SHOWING RELATIONSHIP OF BRIDGE TO PAVEMENT AND SHOULDERS

FOR STRUCTURE PLANS SEE SHEETS S-1 TO S-??

PROJECT REFERENCE NO.	SHEET NO.
B-4094	EC-05/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
UTILIZE INFILTRATION BASIN AS STILLING BASIN WHERE APPLICABLE.

NAD 83 NC GRID

NATIONAL REGISTER - HISTORIC DISTRICT BOUNDARY

NORFOLK SOUTHERN RAILROAD

MTL DOT TRAFFIC SIGNAL POLE

NC 168

MTL DOT TRAFFIC SIGNAL POLE

30°C&G DI

30°CP

30°C&G

EXISTING R/W

33.00'

R/R LIGHT W/GATE

R/R SIGNAL BOX

15°CP

-Y- POT Sta. 13+00.00
-EY- POT Sta. 13+00.00

-Y- PC Sta. 13+91.86

OLD BROTHERS, LLC.
DB 492 PG 88
DB 51 PG 371(MAP)

BEGIN CONSTRUCTION
-Y- POT Sta. 13+90.00

ISF BUS

2SF BUS

WOOD RAMP

CONC PAD

SHINGLE LANDING RD SR 1228 20' BST

TO NC 168

6' CHL 35 B/HB

OLD BROTHERS, LLC.
DB 492 PG 88
DB 51PG 371(MAP)

3A

GRAVEL DR

20.00' 20.00'

-Y- PT Sta. 14+53.32

N 50° 12' 21.5" E

WOODS

S26°18'15"W 17.85'

S55°17'20"E 14.84'

S57°05'56"E 99.77'

3.09' R/W TO EIP

EIP

S

-L- POT Sta. 10+00.00

N56°28'52"W 99.95'

8.91'

G

MARK ALLEN CHRISTIAN
DB 431 PG 884

1

PHYLLIS H. KITCHIN
DB 371 PG 876
DB 256 PG 834
PC D PG 72

S35°26'45"W 167.05'

4' SPLIT RAIL WITH WW

GRAVEL DR

40.00'

EXIST R/W

2' OFF EP

+65.00 40.00

+75.00 30.00

ISFD

SPECIAL CUT DITCH SEE DETAIL B

+40.00 EX. R/W 30.00

CLASS B RIP RAP EST. 2 TONS EST. 7 SY FIL FAB

+90.00 EX. R/W

N 33° 01' 39.8" E

WOODS

SPECIAL CUT DITCH SEE DETAIL B

CLASS B RIP RAP EST. 3 TONS EST. 10 SY FIL FAB

STANDARD V-DITCH SEE DETAIL C EST. 10 CY DDE

JEFFREY LEWIS SHIFLETT
DB 508 PG 782

LATERAL V DITCH SEE DETAIL A EST. 15 CY DDE

SPECIAL CUT DITCH SEE DETAIL B

END PROJECT B-4094
-L- POT Sta. 15+60.00

-L- PT Sta. 15+65.03

+80.00 50.00

3

HOLLY ANN HALL
DB 784 PG 758

+25.00 EX. R/W

15+00

WOODS

POND

NATIONAL REGISTER - HISTORIC DISTRICT BOUNDARY

-L- PINC Sta. 13+04.88
-Y- POT Sta. 14+87.80

-BL- 7 9+47.32
(-L- 13+30.26 29.50' LT)
(-Y- 14+60.90 28.11' LT)

24 x 12 x 3
8 ft. weir
(See Infiltration Basin Detail)
ID 4.1F

131.40'
N46°47'58"W

EVELYN BALLANCE CREEKMORE
WILL 89-E-47

S33°36'13"W 245.05'

ROBERT E. LEE
DB 109 PG 787

GARDEN

JOSEPHINE MARIA WEST
DB 191PG 251

S34°43'20"W 221.84'

SARA C. BELL LIFE ESTATE
WILL 78-E-87

S34°43'20"W 286.00'

WINNIE W. HUMPHRIES
DB 132 PG 348

R/R IRON

171.94'
S52°22'47"E

5.39' R/W TO EIP

EIP

MOYOCK BAPTIST CHURCH
DB 84 PG 91

L12' ECM TO R/W

L88' R/W TO ECM

ECM

S33°36'13"W 56.20'

8" PVC

± 3' OFF EP

EXIST R/W

SOIL

GRASS

2SFD

2SBRKD

BRK

CONC

CONC DR

BST DR

14' BST

2' OFF EP

10' BST

6.95' R/W TO EIP

S34°43'20"W

15°CP

DI

15" CMP

24" CMP

CONC SIDE WALK

BST PARKING

ISFD

CURRITUCK CO. BOARD OF EDUCATION
NO DEED FOUND

J. MARTIN JARVIS
DB 379 PG 901

NATIONAL REGISTER - HISTORIC DISTRICT BOUNDARY

-BL- 6 5+00.00

-L- PC Sta. 10+50.00
-EL- PC Sta.10+50.00

N 56° 57' 59.0" W

SR 1227

TULLS CREEK RD

18' BST

EXIST R/W

4' WD RAIL

BRK

CONC DR

GARDEN DR

CONC

7.24' R/W TO EIP

15.28' R/W TO EIP

+78.33 15.02'

N55°20'14"W 14.91'

AERIAL TELEPHONE CABLE CLEARANCE 16.1' OVER (SR 1228)

2SFD

2

MARY P. STOKES
WILL 02-E-43

SCATTERED TREES

G

B

+75.00 EX. R/W

GRAU 350

162.80'

TRANSITION

AERIAL GUY WIRE CLEARANCE 17.6' OVER (SR 1222)

CLASS II RIP RAP STRUCTURE PAY ITEM

+60.00 35.00

+25.88 16.03'

BLDG RUINS

CONC FOUND

2A

MARY P. STOKES & CATHERINE P. GILLIKIN
WILL 02-E-43

+40.00 50.00

WE

TB

N56°48'09"E 104.88'

N55°34'05"E 167.10'

N55°27'55"E 104.88'

SHINGLE LANDING CREEK

END SHOULDER BERM GUTTER -L- 14+78

LATERAL V DITCH SEE DETAIL A EST. 10 CY DDE

SPECIAL CUT DITCH SEE DETAIL B

+60.00 EX. R/W 25.00

N 33° 48' 42.9" W

SR 1222

18' BST

SOIL DR

4

GEES GROUP OF NC, INC
DB 1089 PG 34

CULT

0.4 MILES TO NC 168

-L- PC Sta. 15+26.62

-L- POT Sta. 18+00.72
-EL- POT Sta.18+00.00

BM #12
-BL- STA 12+65.04
204.84' RT
ELEV= 3.29'

-L- PT Sta. 12+87.78

TOE PROTECTION SEE DETAIL D

N 51° 21' 37.5" W

BEGIN SHOULDER BERM GUTTER -L- 13+26

N56°42'35"W 30.78'

N35°47'28"E 325.83'

N35°55'22"E 304.59'

N35°54'23"E 300.47'

106.24' N58°24'32"W

75.26' N58°24'32"W

NATIONAL REGISTER - HISTORIC DISTRICT BOUNDARY

BEGIN PROJECT B-4094
-L- POC Sta. 12+40.00

99.63' TOTAL
N53°48'15"E

N53°50'25"E 252.40'

16.48' R/W TO EIP

WILLIAM A. THORN, III
NO DEED FOUND

WILLIAM A. THORN, III
DB 404 PG 915

LENORE E. FERRELL
WILL 69-E-109

BEGIN BRIDGE
-L- 13+48.12

END BRIDGE
-L- 14+56.12

BEGIN APPROACH SLAB
-L- 13+34.12

END APPROACH SLAB
-L- 14+70.12

108'

TYPE-III

GRAU 350

-L-

2-9

27.9'

24'

GRAU-350 (TL-2)

* 2 BAR METAL RAIL ON BRIDGE

SKETCH SHOWING RELATIONSHIP OF BRIDGE TO PAVEMENT AND SHOULDERS

FOR STRUCTURE PLANS SEE SHEETS S-1TO S-??