8/17/99

PROJECT REFERENCE NO.	SHEET NO.
B-4044	EC-3/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE

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

DENOTES PAVEMENT OBLITERATION

DENOTES PAVEMENT REMOVAL

DENOTES BRIDGE APPROACH SLAB

AREA TO BE EXCAVATED TO NATURAL GROUND

NC GRID NAD 83

TO SR 1513

-BL- 2 9+37.22 PINC

DETAIL FS
FALSE SUMP
(Not to Scale)

Outside Ditch Traffic Flow

0.5' Min. 1.0' Max.

4H 2' GI etc.

S=Ditch Slope

℄ Proposed Ditch

@ STA. 19+45 -L- RT
@ STA. 18+00 -L- LT

-L- POT STA. 10+00.00

BEGIN T.I.P. PROJECT B-4044

-L-
PI Sta 14+47.50
Δ = 49° 16' 45.6" (LT)
D = 19° 05' 54.9"
L = 258.03'
T = 137.60'
*R = 300.00'
SE = SEE PLAN

+00.00
45.00' (LT)
30.00' LT

100' TRANSITION

-BL- 3 13+11.78 PINC
-L- Sta. 12+06.29
10.96' RT

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TIE TO EXISTING DITCH

+00.00
50.00' (RT)
30.00' RT

SPECIAL CUT DITCH PSRM SEE DETAIL 1

TIE TO EXISTING OUTFALL DITCH

SPECIAL CUT DITCH PSRM SEE DETAIL 1

SMOKEY CREEK

approximate location

-BL- 4 15+88.13 PINC
-L- Sta. 15+12.21
95.60' LT

26 x 8 x 3
4' weir

PAVEMENT REMOVAL

PAVEMENT OBLITERATION

-BL- 5 20+00.58 PINC
-L- Sta. 19+41.67
70.99' LT

14 x 5 x 3
4' weir

EXCAVATE SHADED AREA TO NATURAL GROUND. SEE NOTE A – THIS SHEET

RIP RAP @ EMBANKMENT CLASS II RIP RAP SEE DETAIL 7

+60
145' (LT)
113.57' LT

3' BASE LATERAL DITCH CLASS 'I' RIP RAP SEE DETAIL 6

SPECIAL LATERAL GRASS SWALE SEE DETAIL 4

CLASS 'II' RIP RAP TO ELEV. 1016

2' LATERAL BASE DITCH SEE DETAIL 2

+65.01
45.00' (LT)

BEG. SBG
STA. 13+80 -L- LT

+65
145' (LT)
113.57' LT

REMOVE EXIST. BRG

CLASS 'B' RIP RAP
2 TONS
7 SY FF

+09.90
50.00' (RT)

-L- PCSta. 13+09.90

15" CSP W/ELBOWS

CL. I RIP RAP
7 TONS
15 SY FF

24" W/ELBOWS TYPE-III

15" CSP W/ELBOWS

CL. B RIP RAP
3 TONS
10 SY FF

GRAU 350

2GI

20' INC.

+49.90

CHORD

BM #2

N 73° 26' 33" E

+27.93

+25.00
80.00' (RT)

CHORD

+67.93
90.00' (RT)

-L- PTSta. 15+67.93

SPECIAL LATERAL 2' BASE DITCH SEE DETAIL 3

BEG. SBG
STA. 15+84 -L- RT

10' X 10' CLASS 'I' RIP RAP PAD 5.5 TONS

END SBG
STA. 19+50.24
LT & RT

15" CSP W/ELBOWS

END APPROACH SLAB
-L- STA.18+19

END BRIDGE
-L- STA.17+95

MATCHLINE SEE SHEET 5
-L- STA. 20+00

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BEG. APPROACH SLAB
-L- STA.15+91

BEG. BRIDGE
-L- STA.16+15

CLASS 'II' RIP RAP TO ELEV. 1016 (STRUCTURE PAY ITEM) TOE PROTECTION CLASS 'II' RIP RAP SEE DETAIL 5

21 x 7 x 3
4' weir

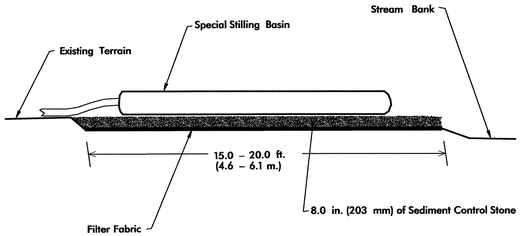
23 x 8 x 3
4' weir

WOODS

SMOKEY CREEK

approximate location

SPECIAL STILLING BASIN WITH ROCK PAD



Not To Scale

Note: Provide Stabilized Outlet to Streambank

DETAIL 1
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground 2:1 3:1 or Flatter Front Ditch Slope

Min. D = 1.5 Ft.
Max. d = 1.0 Ft.

EST. 285 YD² PSRM

Type of Liner = PSRM

FROM STA. 10+00 TO 11+50 -L- LT
STA. 12+50 TO 14+00 -L- LT
STA. 10+00 TO 13+00 -L- RT

DETAIL 2
LATERAL BASE DITCH
(Not to Scale)

Natural Ground 2:1 D 2:1 b 1'/Ft. Fill Slope B

Min. D = 1.5 Ft.
B = 2.0 Ft.
b = 5.0 Ft.

FROM STA. 14+00 TO 16+25 -L- LT 932 CY DDE

DETAIL 3
LATERAL BASE DITCH
(Not to Scale)

Natural Ground 2:1 d 2:1 D b 1'/Ft. Fill Slope Filter Fabric B

Min. D = 1.5 Ft.
Max. d = 1.0 Ft.
B = 2.0 Ft.
b = 5.0 Ft.

* When B Is < 6.0'

Type of Liner = CLASS 'I' RIP RAP

FROM STA. 13+00 TO 16+25 -L- RT 152 CY DDE
EST. 261 TONS
EST. 199 YD² F.F.

DETAIL 4
STANDARD GRASSED SWALE
(Not to Scale)

Natural Ground 3:1 D 3:1 Natural Ground

Min. D = 1.5 Ft.

FROM STA. 17+37 TO 17+51 -L- LT

DETAIL 5
TOE PROTECTION
(Not to Scale)

Natural Ground d 2:1 OR FLATTER Fill Slope Filter Fabric

d = 1.0 Ft.

Type of Liner = CLASS 'I' RIP RAP

FROM STA. 18+00 TO 19+40 -L- RT
EST. 91 TONS
EST. 78 YD² F.F.

DETAIL 6
LATERAL BASE DITCH
(Not to Scale)

Natural Ground 2:1 d 2:1 D b 1'/Ft. Fill Slope Filter Fabric B

Min. D = 1.5 Ft.
Max. d = 1.0 Ft.
B = 3.0 Ft.
b = 5.0 Ft.

* When B Is < 6.0'

Type of Liner = CLASS 'I' RIP RAP

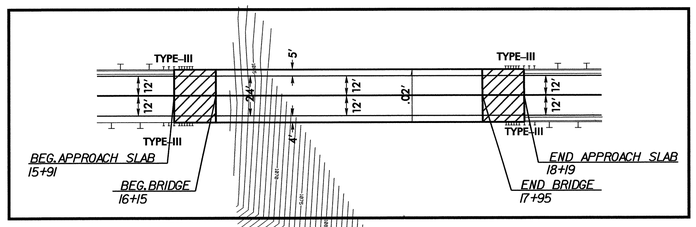
FROM STA. 18+00 TO 19+50 -L- LT 302 CY DDE
EST. 133 TONS
EST. 116 YD² F.F.

DETAIL 7
RIP RAP AT EMBANKMENT
(Not to Scale)

Ditch Grade 3.0' Toe 1.5' 3.0' 3

Type of Liner = CLASS 'II' RIP RAP

STA. 16+30 -L- LT 40 TONS
STA. 17+35 -L- LT 12 TONS



SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP

FOR PROFILE OF -L- SEE SHEET 6

*DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED (35 MPH), MINIMUM HORIZONTAL CURVE RADIUS (300') AND HORIZONTAL STOPPING SIGHT DISTANCE (165')

NOTES

A: AREA TO BE GRADED TO NATURAL GROUND PER THE DISCRETION OF THE ENGINEER.

REVISIONS

25-JUL-2005 10:05
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AT REV 2.1.45