REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-977A	24

HIGHWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 15759 ENGINEER STEPHEN C. BROWDE — 12/15/04

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 20737 ENGINEER JONATHAN KENNEDY SCARCE — 12/15/04

METRIC 5 0 10

CONST. REV.

R/W REV.

-LREV-
PI Sta 75+35.795
Θs = 2°12' 47.3"
Ls = 90.000
LT = 60.005
ST = 30.004

-LREV-
PI Sta 81+02.675
Δ = 49°29' 05.4" (LT)
L = 1,006.179
T = 536.885
R = 1,165.000
Se = 0.05
DS = 105 km/h

-LREV-
PI Sta 86+01.973
Θs = 2°12' 47.3"
Ls = 90.000
LT = 60.005
ST = 30.004

-L-
PI Sta 74+99.317
Θs = 1°28' 31.5"
Ls = 60.000
LT = 40.001
ST = 20.1901

-L-
PI Sta 80+74.497
Δ = 50°57' 36.9" (LT)
L = 1,036.179
T = 555.181
R = 1,165.000

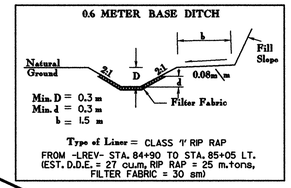
-L-
PI Sta 85+75.496
Θs = 1°28' 31.5"
Ls = 60.000
LT = 40.001
ST = 20.1901

-Y8-
PI Sta 11+36.858
Δ = 26°33' 12.6" (LT)
L = 268.799
T = 136.858
R = 580.000
Se = EXIST.

-Y9-
PI Sta 10+18.178
Δ = 22°36' 31.8" (LT)
L = 197.730
T = 99.995
R = 50.000
Se = EXIST.

-Y9REV-
PI Sta 10+77.008
Δ = 44°14' 58.4" (LT)
L = 65.646
T = 34.558
R = 85.000
Se = 0.06
Ro = As shown
DS = 30 km/h

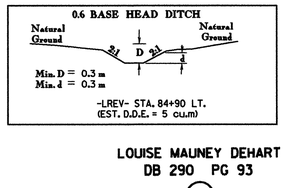
0.6 METER BASE DITCH



Min. D = 0.3 m
Min. d = 0.3 m
b = 1.5 m

Type of Liner = CLASS 'I' RIP RAP
FROM -LREV- STA. 84+90 TO STA. 85+05 LT.
(EST. D.D.E. = 27 cu.m, RIP RAP = 25 m.tons, FILTER FABRIC = 30 sm)

0.6 BASE HEAD DITCH

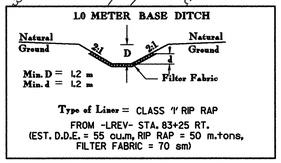


Min. D = 0.3 m
Min. d = 0.3 m

-LREV- STA. 84+90 LT.
(EST. D.D.E. = 5 cu.m)

NOTE: GRADE ULTIMATE SECTION FROM -LREV- STA. 84+40 TO 85+45

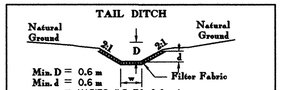
1.0 METER BASE DITCH



Min. D = 1.2 m
Min. d = 1.2 m

Type of Liner = CLASS 'I' RIP RAP
FROM -LREV- STA. 83+25 RT.
(EST. D.D.E. = 55 cu.m, RIP RAP = 50 m.tons, FILTER FABRIC = 70 sm)

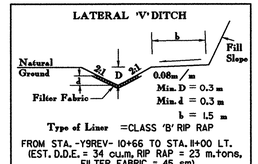
TAIL DITCH



Min. D = 0.6 m
Min. d = 0.6 m
w = VARIES (1.5 TO 2.0 m)

Type of Liner = CLASS 'I' RIP RAP
-LREV- STA. 84+15 RT.
(EST. D.D.E. = 45 cu.m, RIP RAP = 55 m.tons, FILTER FABRIC = 75 sm)

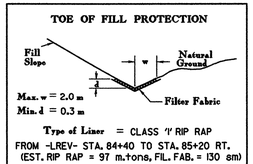
LATERAL 'V' DITCH



Min. D = 0.3 m
Min. d = 0.3 m
b = 1.5 m

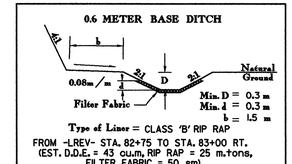
Type of Liner = CLASS 'B' RIP RAP
FROM STA. -Y9REV- 10+66 TO STA. 11+00 LT.
(EST. D.D.E. = 34 cu.m, RIP RAP = 23 m.tons, FILTER FABRIC = 45 sm)
FROM STA. -Y9REV- 10+50 TO STA. 10+70 RT.
(EST. D.D.E. = 20 cu.m, RIP RAP = 21m.tons, FILTER FABRIC = 42 sm)
(FUT.) STA. -LREV- 84+56 TO STA. 84+85 LT.

TOE OF FILL PROTECTION



Type of Liner = CLASS 'I' RIP RAP
FROM -LREV- STA. 84+40 TO STA. 85+20 RT.
(EST. RIP RAP = 97 m.tons, FIL. FAB. = 130 sm)
FROM -LREV- STA. 85+70 TO STA. 86+30 LT.
(EST. RIP RAP = 73 m.tons, FIL. FAB. = 100 sm)

0.6 METER BASE DITCH



Min. D = 0.3 m
Min. d = 0.3 m
b = 1.5 m

Type of Liner = CLASS 'B' RIP RAP
FROM -LREV- STA. 82+75 TO STA. 83+00 RT.
(EST. D.D.E. = 43 cu.m, RIP RAP = 25 m.tons, FILTER FABRIC = 50 sm)
FROM -LREV- STA. 84+14 TO STA. 84+40 RT.
(EST. D.D.E. = 52 cu.m, RIP RAP = 26 m.tons, FILTER FABRIC = 52 sm)
FROM -LREV- STA. 85+20 TO STA. 85+43 RT.
(EST. D.D.E. = 60 cu.m, RIP RAP = 54 m.tons, FILTER FABRIC = 46 sm)
FROM -LREV- STA. 85+57 TO STA. 86+10 RT.
(EST. D.D.E. = 106 cu.m, RIP RAP = 21m.tons, FILTER FABRIC = 110 sm)

SEE SHEET 49 FOR -LREV- PROFILE
SEE SHEET 58 FOR -Y8- PROFILE
SEE SHEET 58 FOR -Y9REV- PROFILE
SEE PROFILES FOR DITCH GRADES
SEE SHEET 2-I FOR INTERSECTION DETAILS

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