REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-2552C	11
R /W SHEET NO.	

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 15759 ENGINEER STEVEN C. BROWDE — 3/15/05

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 6982 ENGINEER RICHARD N. SCARCE

METRIC — 5 0 10

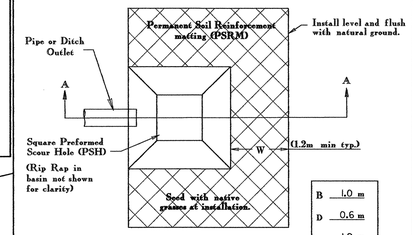
CONST.REV.

R /W REV.

NAD83

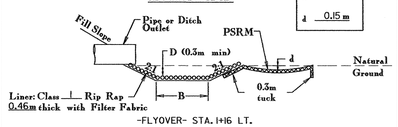
PREFORMED SCOUR HOLE WITH APRON

PLAN VIEW



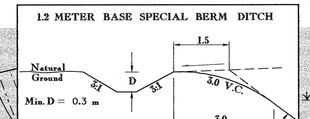
B	1.0 m
D	0.6 m
W	1.2 m
d	0.15 m

SECTION A-A



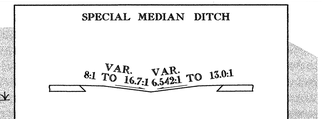
-FLYOVER- STA. 1+16 LT.

1.2 METER BASE SPECIAL BERM DITCH



FROM -L2- STA. 131+20 TO STA. 132+80 RT.
(EST. D.D.E. = 989 cu.m)
FROM -FLYOVER- STA. 1+80 TO STA. 3+20 LT.
(EST. D.D.E. = 647 cu.m)

SPECIAL MEDIAN DITCH



FROM -L2- STA. 133+86 TO STA. 134+55 MED.

ROBERT E JOYNER
DB 1523 PG 674
25

SCOTT D OVERBEE
DB 1335 PG 516
26

W J C BLINSON
DB 478 PG 26
DB 931 PG 840
30

VERGIE B WOOD
DB 455 PG 211
31

SCOTT D OVERBEE
DB 1335 PG 516
26

ALFRED STEWART JR.
DB 595 PG 496
29

LOLA'S BEAUTY SHOP LIMITED PARTNERSHIP
DB 1592 PG 521
32

398.821
S79°53'28"W

-L2- TS Sta. 133+25.703 = -FLYOVER- POT Sta. 0+00.000 (2.13 LT.)

+25.703 -L2-
55.000 (180.45 ft)

+70.000 -L2-
50.000 (164.04 ft)

PROP.R/W

PROPOSED W.W.FENCE

LAT. 4.0m BASE DITCH

DITCH CHECKS
W/ CL. "I" RIP RAP (280 M.TONS) &
FIL.FAB. (480 S.M.)

+40.000 -FLYOVER-
33.688 (110.52 ft)

BEGIN W.W.FENCE
+04.730 -FLYOVER-

PLACE CONCRETE SILL

CHANNEL FILL

15.24m FROM TOP OF CREEK BANK

HEADWALL

END W.W.FENCE
+96.190 -FLYOVER-

END W.W.FENCE
+81.680 -L2-

BEGIN W.W.FENCE
+66.680 -FLYOVER-

+20.000 -FLYOVER-
33.664 (110.45 ft)

+46.000 -FLYOVER-
33.656 (110.42 ft)

TEMP. DRAINAGE EASEMENT

+87.000 -FLYOVER-
33.644 & 36.000

CL. "B" RIP RAP (8 M.TONS) FIL. FAB. (18 SM)

90 UNIFORM TAPER (3.6 TO 0)

SPECIAL 1.2m BASE BERM DITCH

+90 (-FLYOVER-)

+00 (-FLYOVER-)

600mm RCP

1.0 x 0.6 PRE-FORMED SCOUR HOLE
W/ CL. "I" RIP RAP (21 M.TONS) &
FIL.FAB. (33 S.M.)

400 CSP w/ 2 CS ELBOWS TYPE A COATING

GRAU-350

2GI w/ FLAT GRATE

375mm RCP

CAT-1

8d TAPER

EXPWY. GUTTER

S 88° 53' 01.1" E -FLYOVER-

SEE NCDOT STD. 225.03

2 @ 2.7 x 1.8 RCBC
+01.5 -L2-
68° SKEW

1583 (LEFT ONLY)

2375 (RIGHT ONLY)

3.7 x 2.4 RCBC
+31.0 -L2-
81° SKEW
WILDLIFE CROSSING

SP. MEDIAN DITCH

CL. "I" RIP RAP (24 M.TONS) FIL. FAB. (32 SM)

1200mm RCP

2GI TYPE A

FALSE SUMP -L2-

S 88° 53' 01.1" E

+44.114

CL-COR 152.056

258.864
N81°19'21"E

EIP-CL 75.021

BL-839
-L2- 129+56.285: OFF 2.442 RT

AUXILIARY LANE

SPECIAL 1.2m BASE BERM DITCH

F 1.2m BASE LAT. DITCH

CL "B" RIP RAP APRON (3 M.TONS) FIL. FAB. (6 SM)

2GI w/ FLAT GRATE EX. DEPTH

2GI w/ FLAT GRATES

400mm CSP TYPE A COATING

CL. "I" RIP RAP (4 M.TON) w/ FIL. FAB. (7 SM)

BEGIN W.W.FENCE
+39.980 -L2-

END W.W.FENCE
+33.320 -L2-

CL. "I" RIP RAP (4 M.TONS) FIL. FAB. (3 SM)

END W.W.FENCE
+09.790 -L2-

1.5 x 1.0 PRE-FORMED SCOUR HOLE
W/ CL. "I" RIP RAP (53 M.TONS) &
FIL.FAB. (65 S.M.)

CHORD

+25.703 -L2-
50.000 (164.04 ft)

+00.000 -L2-
50.380 (165.29 ft)

+20.703 -L2-
50.000 (164.04 ft)

-L2- SC Sta. 134+20.703

+50.000 -L2-
50.000 (164.04 ft)

BEGIN W.W.FENCE
+20.160 -L2-

CL. "I" RIP RAP (6 M.TONS) FIL. FAB. (8 SM)

+69.980 -L2- PROP.R/W
50.000 (164.04 ft)
(ON PI)

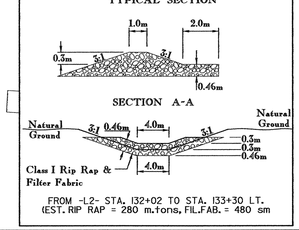
+69.950 -L2-
55.406 (181.78 ft)
(ON PI)

HTR

LF

SOIL

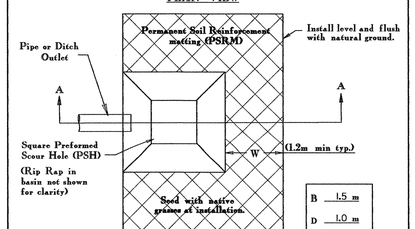
CLASS I RIP RAP & FILTER FABRIC DITCH CHECK 9a 16M O.C. TYPICAL SECTION



FROM -L2- STA. 132+02 TO STA. 133+30 LT.
(EST. RIP RAP = 280 m.tons, FIL.FAB. = 480 sm

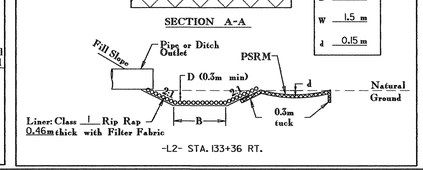
PREFORMED SCOUR HOLE WITH APRON

PLAN VIEW



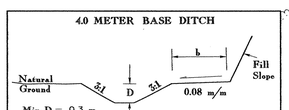
B	1.5 m
D	1.0 m
W	1.5 m
d	0.15 m

SECTION A-A



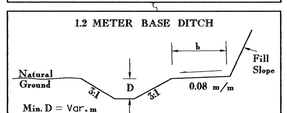
-L2- STA. 133+36 RT.

4.0 METER BASE DITCH



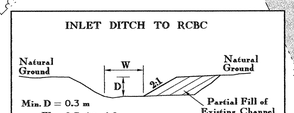
FROM -L2- STA. 130+30 TO STA. 133+60 LT.
(EST. D.D.E. = 1990 cu.m)
FROM -FLYOVER- STA. 1+00 TO STA. 1+80 LT.
(EST. D.D.E. = 540 cu.m)

1.2 METER BASE DITCH



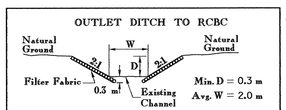
FROM -L2- STA. 132+80 TO STA. 133+05 RT.
(EST. D.D.E. = 17 cu.m)

INLET DITCH TO RCBC



(EST. EMB'T. = 4 cu.m)

OUTLET DITCH TO RCBC



Type of Liner = CLASS "I" RIP RAP

-L2- STA. 133+15 RT.
(EST. D.D.E. = 8 cu.m, RIP RAP = 12 m.tons,
FILTER FABRIC = 17 sm)

Pls Sta 133+89.042
Θs = 2° 20' 09.9"
Ls = 95.000
LT = 63.339
SZ = 31.672

Pl Sta 137+36.439
Δ = 30° 19' 40.1" (RT)
L = 616.658
T = 315.735
R = 1165.000
SE = 0.06
DS = 110 km/h

Pls Sta 140+69.033
Θs = 2° 20' 09.9"
Ls = 95.000
LT = 63.339
ST = 31.672

MATCHLINE -L2- 131+60 SEE SHEET 10

MATCHLINE -L2- 135+20 SEE SHEET 12

FOR CULVERT DESIGN PLANS SEE SHEETS C- THRU C-

-FLYOVER- GRADE SEE PROFILE SHEET 40

-L2- GRADE SEE PROFILE SHEET 35

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

17-MAR-2005 10:45
N:\2752S\DESIGN\R2552C_RDY_PSH11.DGN
General Use
ATTACHED_MEMO