PROJECT REFERENCE NO.	SHEET NO.
R-977A	EC-42/CONST.12
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONST.REV.	
R/W REV.	

METRIC

5 0 10

-Y3-
PI Sta 12+77.398
Δ = 39° 55' 53.3" (LT)
L = 55.755
T = 29.064
R = 80.001
Se = EXIST.

-Y3-
PI Sta 13+47.925
Δ = 18° 47' 06.6" (LT)
L = 86.884
T = 43.835
R = 265.000
Se = EXIST.

LATERAL 'V' DITCH

Fill Slope — b — Natural Ground — 2:1 — D — 2:1 — Filter Fabric

0.08m/m
Min. D = 0.3 m
Min. d = 0.3 m
b = 1.5 m
Type of Liner = CLASS 'I' RIP RAP
FROM -LREV- STA. 43+18 TO STA. 43+25 RT.
(EST. D.D.E. = 32 cu.m. RIP RAP = 9 m.tons FILTER FABRIC = 10 sm)

13 x 7 x 1
1.5 weir

+10.000 -Y3-
3.963 (13.00 ft)
+10.000 -Y3-
10.000 (32.80 ft)
END WW.FENCE
BEGIN C/A

+10.000 -Y3-
10.000 (32.80 ft)
BEGIN WW.FENCE
BEGIN C/A

+10.000 -Y3-
3.963 (13.00 ft)

PRESTON J. HENN
DB 146 PG 144
15

-Y3- PT Sta.10+59.341

12 x 6 x 1
1.5 weir

NOTE: GRADE ULTIMATE SECTION FROM -LREV- STA. 41+60± TO 42+40±

+65.000 -LREV-
52.016 (170.612 ft)

-Y3- PC Sta.11+03.218

-Y3- POC Sta.11+19.957 =
-L- POC Sta.40+87.554
-Y3- POC Sta.11+20.083 =
-LREV- POC Sta.41+19.524

-L-
Pls Sta 46+64.493
θs = 0° 58' 66.0"
Ls = 60.000
LT = 40.001
ST = 20.001

-Y3- PC Sta.10+00.000

KINCAID HEIRS
DB 584 PG 65
12

WOODS

10 x 4 x 1

+60.000 -LREV-
45.000 (147.60 ft)

+40.000 -LREV-
35.000 (114.80 ft)

NOTE: GRADE ULTIMATE SECTION FROM -LREV- STA. 40+50± TO 41+80±

+59.341 -Y3-
22.000 (72.16 ft)

N 50° 50' 09" E
382.174

S 41° 24' 54.000" E

8 x 9 x 1
2.0 weir

+74.850 -LREV-
17.500 (57.41 ft)

-LREV- END BRIDGE
-LREV- POC STA.41+88.660 (7m RT)

+80.000 -LREV-
35.000 (114.80 ft)

BOB HATCHETT
DB 191 PG 165
16

8 x 4 x 1

END APPROACH SLAB
-LREV- POC STA.41+97.679 (7m RT)

(FUTURE) SLOPE STAKES LINE
(FUTURE) MODIFIED FLUME W/ 1.2m PAVED DITCH
(FUTURE) GUARDRAIL
FUTURE LANES
TYPE III ANCHOR UNIT
END W.W. FENCE
BEGIN W.W. FENCE
+57 BEGIN SHLD. BERM GUTTER
MODIFIED FLUME W/ 1.2m PAVED DITCH
(FUTURE) FALSE SUMP
(FUTURE) 375mm RCP
+60 END SHLD. BERM GUTTER
BEG. W.W. FENCE
TYPE 'B' COATING 400mm CSP W/ ELBOWS
TYPE 'B' COATING 450mm W/ ELBOWS
TOE OF FILL PROTECTION
SLOPE STAKES LINE
SPECIAL 450 CSP TYPE "A" SILT BASIN
450x450x450mm PERFORATED RISER/TEE
2.4m WIDE SPILLWAY
CLASS 'I' RIP RAP
LAT 'V' DITCH W/ CL 'I' RIP RAP & FILTER FABRIC
CL.'I' RIP RAP (2 TONS) FILTER FABRIC (7 SM)
CL.'I' RIP RAP (10 TONS) FIL.FAB. (15 SM)
Std.BERM DITCH
Std.BERM DRAINAGE OUTLET
(FUTURE) 600mm CSP W/ ELBOW
(TYP. DEPTH 1.92)
(EXT. DEPTH 2.80)
JB W.W. MANHOLE COVER (EXTRA DEPTH 2.80)
LT. E.O.P. WIDENING RADIUS = 105.0
TVA R/W
WOODS
BOB HATCHETT
DB 191 PG 165
16

MATCH LINE -LREV- STA 39+45.000
SEE SHEET 11

MATCH LINE -LREV- STA 43+25.000
SEE SHEET 13

GRAJ-350
40.0 UNIFORM TRANSITION (7.2 TO 7.8)
(FOR LANE SHIFT ACROSS BRIDGE)
8:1 TAPER
40.0 UNIFORM TRANSITION (7.8 TO 7.2)

+60.000 -LREV-
45.000 (147.64 ft)

+88.390 -LREV-
45.399

+20.000 -LREV-
40.000 (131.20 ft)

+20.000 -LREV-
55.000 (180.44 ft)

+90.000 Y3-
21.000 (68.90 ft)
END C/A
END WW.FENCE

+10.000 -Y3-
27.000 (88.58 ft)
BEGIN C/A

+148.334 -Y3-
21.000 (68.90 ft)

+35.000 -Y3-
22.600 (74.15 ft)

+04.089 -Y3-
27.000 (88.58 ft)

+34.000 -Y3-
27.000 (88.58 ft)

-Y3- PT Sta.11+46.935

-Y3- PC Sta.12+48.334

-Y3- PT Sta.13+04.089
-Y3- PC Sta.13+04.090

S 36° 33' 00.0" E
-Y3-

S 76° 28' 53.31" E
S 76° 35' 41.0" E

10 x 5 x 1

13 x 7 x 1
2.5 weir

4 x 2 x 1

10 x 5 x 1

8 x 4 x 1

SPECIAL 'V' DITCH

Natural Ground — 4:1 — D — 2:1

Min. D = 0.3 m

FROM -Y3- STA. 11+45 TO STA. 11+60 RT.

TOE OF FILL PROTECTION

Fill Slope — w — Natural Ground — d — Filter Fabric

Max. w = 2.0 m
Min. d = 0.3 m
Type of Liner = CLASS 'I' RIP RAP
FROM -LREV- STA. 40+80 TO STA. 41+17 RT.
(EST. RIP RAP = 45 m.tons, FIL.FAB. = 60 sm)
FROM -Y3- STA. 10+70 TO STA. 11+00 RT.
(EST. RIP RAP = 97 m.tons, FIL.FAB. = 130 sm)

TOE OF FILL PROTECTION

Natural Ground — w — Fill Slope — d — Filter Fabric

Max. w = 2.0 m
Min. d = 0.3 m
Type of Liner = CLASS 'B' RIP RAP
FROM -LREV- STA. 41+84 TO STA. 42+60 RT.
(EST. RIP RAP = 70 m.tons, FIL.FAB. = 140 sm)

SPECIAL 'V' DITCH

EIP — Natural Ground — w — 4:1 — d — Filter Fabric

Max. w = 2.0 m
Min. d = 0.3 m
Type of Liner = CLASS 'B' RIP RAP
FROM -Y3- STA. 10+54 TO STA. 11+00 LT.
(EST. RIP RAP = 37 m.tons, FIL.FAB. = 75 sm)

US 64 (-LREV-)
OVER SR 1558 (-Y3-)

-LREV-

-Y3-

DETAIL SHOWING PROPOSED BRIDGE WIDTH IN RELATION TO PAVEMENT
(NOT TO SCALE)

DAVID R. & WREN L. MURPHY
DB 589 PG 98-99
11

KINCAID HEIRS
DB 584 PG 65
12

JUDD & EVELYN STILES
DB 259 PG 268
DB 181 PG 185
13

DB 551 PG 194
RONALD EDWIN STILES
14

WILLIAM S. & IMOGENE JOHNSON
DB 355 PG 69
DB 347 PG 28

JUDD & EVELYN STILES
DB 259 PG 268
DB 181 PG 185

HARRY L. & JOIE A. STILES
DB 784 PG 90-91
13A

SEE SHEET 39 FOR -LREV- PROFILE
SEE SHEET 52 FOR -Y3- PROFILE
SEE PROFILES FOR DITCH GRADES
SEE SRUCTURE PLANS S- TO S-

REMOVE 450 CMP
CLASS 'I' RIP RAP FILTER FABRIC
REMOVE 450 CSP
REMOVE 600 CSP
REMOVE 1050 WW & 1SBW
REMOVE 1200 CS
REMOVE 1200 RCP
REMOVE 1500 WW
REMOVE 1800 WW
REMOVE 2400 BLK WALL
REMOVE 1900 BLK WALL
REMOVE 300 WD WALL ROCK CROSSV
REMOVE 1200 CONC
REMOVE 1050 CONC
REMOVE 900 U/G
REMOVE EXISTING R/W
REMOVE EXISTING R/W
REMOVE 1SBW
REMOVE 1SBW
REMOVE 1SBW