PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-45/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

-L-
PI Sta 23+30.62
△ = 43° 56' 36.9" (LT)
D = 2° 15' 52.8"
L = 1,940.41'
T = 1,020.74'
R = 2,530.00'
SE = 05
V = 55 mph

-Y-
PI Sta 10+97.21
△ = 12° 02' 15.0" (LT)
D = 12° 13' 36.5"
L = 98.45'
T = 49.41'
R = 468.61'
SE = SEE PLANS
V = STOP CONDITION

PI Sta 12+09.76
△ = 2° 52' 34.0" (LT)
D = 2° 15' 52.8"
L = 127.00'
T = 63.51'
R = 2,530.00'
SE = EXISTING SE
V = STOP CONDITION

NAD 83/2011

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 2:1, D, 4:1 or Flatter, Front Ditch Slope
Min. D=1.5 Ft.
FROM STA.17+00-L- TO STA.18+50-L- LT.
FROM STA.17+00-L- TO STA.17+50-L- RT.
FROM STA.20+50-L- TO STA.23+50-L- LT.
FROM STA.25+50-L- TO STA.26+50-L- LT.

DETAIL C
LATERAL 'V' DITCH
(Not to Scale)
Natural Ground, 2:1 TO 2:1, d, b, 1:Ft., Fill Slope
Min. D=1.5 Ft.
Max. d=1.5 Ft.
b=2.0 Ft.
Type of Liner= PSRM
FROM STA.25+00-L- TO STA.28+00-L- RT.

DETAIL K
TOE PROTECTION
(Not to Scale)
2:1 OR FLATTER Fill Slope, 2:1 OR FLATTER Fill Slope, d, PSRM
d=1.5 Ft.
Type of Liner= PSRM
FROM STA.17+00-L- TO STA.18+50-L- RT.

DETAIL T
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 2:1, D, 2:1, Natural Ground, B
Min. D=1.0 Ft.
B=3.0 Ft.
STA. 24+10-L- RT.

100 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 5.2

70 x 20 x 3
1.5 inch Skimmer
with 1.000 inch
Orifice Diameter
5 ft. weir
ID 5.3

40 x 20 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 5.1

40 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 5.4

MATCH LINE -L- STA.17+00 SEE SHEET NO.4

MATCH LINE -L- STA.31+00 SEE SHEET NO.6

SPECIAL CUT DITCH SEE DETAIL A

TOE PROTECTION SEE DETAIL K EST. 196sq.yds PSRM=159 SY

CLASS 'B' RIP-RAP EST. 3 TONS GEOTEXTILE EST. 10 S.Y.

CLASS 'B' RIP-RAP EST. 8 TONS GEOTEXTILE EST. 21 S.Y.

3.0' STANDARD BASE DITCH SEE DETAIL T DDE EST. 10 C.Y.

LATERAL 'V' DITCH SEE DETAIL C PSRM=224 SY

-L- POC Sta.29+38.99=
-Y- POT Sta.10+00.00

-Y- PC Sta.10+47.80

-Y- PCC Sta.11+46.25

-Y- PT Sta.12+73.25

END CONSTRUCTION
-Y- STA.12+00.00

S 19° 53' 15.8" W

S 4° 58' 27.0" W

ELEVATION = 329.70
N 1017905
E 2352617
BL STA. 536+22 7' RT
CHISELED X ON BOLT OF FIRE HYDRANT

1 MILDRED D. MOSES DB 381 PG 138

2 WILLIE MOSES DB 334 PG 623

3 KAREN G. HARPER, ET AL DB 930 PG 908 PB 19 PG 122

3 KAREN G. HARPER DB 930 PG 908 PB 19 PG 122

4 HEATHER L. OLESNEVICH DB 937 PG 859 PB 34 PG 79

4i JAMES T. BRADLEY, ET UX DB 617 PG 634 PB 34 PG 79

5 BETTY SHEARIN HARLOW, ET VIR DB 698 PG 790 PB 27 PG 21

6 WILLIAM A. BRADLEY, JR. DB 12 PG 563

CAROLYN ANN COLINDRES, ET AL DB 998 PG 742 PB 31 PG 173