PROJECT REFERENCE NO.	SHEET NO.
A-0009CB	EC-21/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TGS ENGINEERS
201 W. MARION ST–STE 200
SHELBY, NC 28150
PH (704) 476–0003
CORP. LICENSE NO.: C–0275

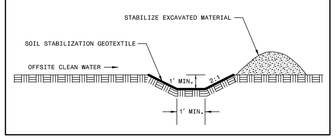
–L– CURVE DATA

PI Sta 234+84.86
△ = 12° 40' 17.1" (RT)
D = 1° 54' 35.5"
L = 663.47'
T = 333.10'
R = 3,000.00'
SE = 0.05
DS = 60 MPH

PI Sta 255+20.12
△ = 40° 44' 05.0" (LT)
D = 2° 36' 15.7"
L = 1,564.10'
T = 816.75'
R = 2,200.00'
SE = 0.07
DS = 60 MPH

CLEAN WATER DIVERSION

(Not to Scale)



CLEAN WATER DIVERSIONS ARE INDEPENDENT OF OTHER EC DITCH LINES AND TERMINATE INTO A SC–A.

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

NAD 83/2011

40 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 22.1

50 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 22.4

72 x 12 x 3
ID 22.1F

84 x 14 x 3
ID 22.2

66 x 22 x 2
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
5 ft. weir
ID 22.3

MATCH LINE STA –L– 235+00.00
MATCH TO SHEET NO. 21

MATCH LINE STA –L– 249+00.00
MATCH TO SHEET NO. 23

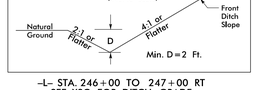
–L– PT 238+15.24

–L– PC 247+03.37

59 LLOYD SCOTT ORR
60 LANDAN ORR
61 MARY S. LAMBERTH
62 DEBORAH E. JUSTICE
63 ALVIN J. HALL, ET AL
64 RAUL H. OLIVERA
65 DEBORAH E. JUSTICE
66 GERALD V. JONES
67 BOBBY MAX EDWARDS
68 JOSEPH A. BRADLEY
69 MATT SHIPLET

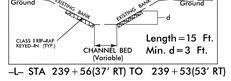
DO NOT DISTURB SWEETWATER CREEK
CLASS I RIPRAP
20 TONS, 39 SY GEO
DO NOT DISTURB
PROP. DRIVE
BURY INVERT 0.8'
STANDARD BASE DITCH
SEE DETAIL 22C
DDE=16 CY
CLASS II RIPRAP
26 TONS, NO GEO
RIPRAP AT EMBANKMENT
SEE DETAIL 22E
CLASS I RIPRAP
13 TONS, NO GEO
STANDARD BASE DITCH
SEE DETAIL 22D
DDE=2 CY
CLASS I RIPRAP
7 TONS, NO GEO
DO NOT BURY INVERT
REMOVE
48" RCP-IV
18" RCP-IV
30" RCP-IV
15" RCP-IV
TSD
CWD
PROP. SOIL DRIVE
BURY INVERT 0.8'
BANK STABILIZATION
SEE DETAIL 22B
CLASS I RIPRAP
17 TONS, NO GEO
SPECIAL CUT DITCH
SEE DETAIL 22A
40TCB w/
8" OPENINGS
DO NOT DISTURB SEPTIC
10' GRAVEL DRIVE
DRAIN FIELD
SEPTIC TANK
LOG CABIN
EXPRESSWAY GUTTER
–L– STA. 229+00 TO
235+36±, RT
720' TAPER
320' BUFFER
720' TAPER
RETAIN
42" CSP
SWEETWATER CREEK
UT TO SWEETWATER CREEK (PERENNIAL)
SWEETWATER RDG
PROPOSED GARDEN
TERRACED LANDSCAPING
DBL WIDE MH
STEPS
DECK
IS F&ROCK D

DETAIL 22A
SPECIAL CUT DITCH
(Not to Scale)



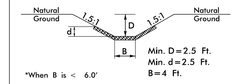
–L– STA. 246+00 TO 247+00 RT
SEE XSC FOR DITCH GRADE

DETAIL 22B
BANK STABILIZATION
(Not to Scale)



–L– STA 239+56(37' RT) TO 239+53(53' RT)

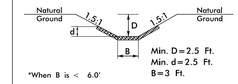
DETAIL 22C
STANDARD BASE DITCH
(Not to Scale)



Type of Liner=Class II Rip-Rap

–L– STA 239+52(35' LT) TO 239+50(48' LT)
DAYLIGHT AT 1.0%

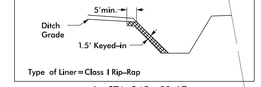
DETAIL 22D
STANDARD BASE DITCH
(Not to Scale)



Type of Liner=Class I Rip-Rap

–L– STA 245+50(39' LT) TO 245+49(49' LT)
DAYLIGHT AT 1.0%

DETAIL 22E
RIPRAP AT EMBANKMENT
(Not to Scale)



Type of Liner=Class I Rip-Rap

–L– STA. 245+50 LT