| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| R-4753 | EC-4/CONST.4 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

INSTALL DRIVEWAY PIPE DURING CLEARING & GRUBBING PHASE

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

NAD 83/NSRS 2007

BEGIN TIP PROJECT R-4753
-L- STA. 15+50.00

-L- PT Sta. 19+94.82

RIDGE TOP PROPERTIES AND INVESTMENTS, LLC
DB 1652 PG 608

RAMONA BUTTERS EDDY LIVING TRUST
DB 1960 PG 307

BILLY J. MELTON AND WIFE, MARTHA O. MELTON
DB 1639 PG 1

ANTHONY L. PATE AND WIFE, SHARI L. PATE
DB 1040 PG 526
R/W TO BE ACQUIRED BY PERMANENT EASEMENT.

ROGER BRUCE WACHOB
W.E. FILE #05E-524
DB 1475 PG 524
DB 1185 PG 171

ELIZABETH BARNES GANTT
W.E. FILE #04E-250
DB 880 PG 509

BEGIN EXPRESSWAY GUTTER
-L- STA. 30+50.00

BEGIN RETAINING WALL #1
-L- STA. 26+61.00

-L- PT Sta. 26+06.54
N 78° 11' 45.7" E

-L- PC Sta. 26+61.08

-L- PC Sta. 21+82.72

N 27° 04' 27.6" E

RANDALL C. LANIER AND WIFE, SUSAN B. LANIER
DB 1094 PG 322
DB 654 PG 502

END RETAINING WALL #1A
-L- STA. 23+00.00

-L- PT Sta. 31+07.55
S 53° 04' 43.1" E

END RETAINING WALL #1
-L- STA. 31+75.00

MATCH TO SHEET 5
-L- STA. 31+77.00

-L- PRC Sta. 18+31.51

BEGIN RETAINING WALL #1A
-L- STA. 18+00.00

JTC PROPERTIES, LLC
DB 1781 PG 235

BEGIN SBG
-L- STA. 16+50.00

BEGIN GRADE
-L- STA. 16+50.00

EASLEY PROPERTIES AND EXCAVATING, LLC
DB 1933 PG 102
AS
JTC PROPERTIES, LLC
DB 1781 PG 235

TIE TO EXIST. GUARDRAIL (USE STEEL BEAM GUARDRAIL)

-L- PC Sta. 14+18.25

TUCKASEGEE RIVER

| -L- | | | |
|---|---|---|---|
| PI Sta 16+25.00 | PI Sta 19+13.17 | PI Sta 24+09.91 | PI Sta 28+98.82 |
| Δ = 4° 44' 07.8" (RT) | Δ = 2° 20' 21.3" (LT) | Δ = 51° 07' 18.1" (RT) | Δ = 48° 43' 31.2" (RT) |
| D = 1° 08' 45.3" | D = 1° 25' 56.6" | D = 12° 03' 44.2" | D = 10° 54' 48.5" |
| L = 413.25' | L = 163.31' | L = 423.81' | L = 446.47' |
| T = 206.74' | T = 81.67' | T = 227.18' | T = 237.74' |
| R = 5,000.00' | R = 4,000.00' | R = 475.00' | R = 525.00' |
| SE = .02 | SE = .02 | SE = .08 | SE = .08 |
| RO = 42' | RO = 42' | RO = 168' | RO = 168' |

**DETAIL 55**
STANDARD BASE DITCH
( Not to Scale)

Natural Ground, 2:1, D, 2:1, Natural Ground; d, Geotextile, B

Min. D= 2 Ft.
Max. d= 1.5 Ft.
B= 2 Ft.

Type of Liner= Class B Rip-Rap

STA. 19+92 RT. (Pipe Outlet)
5 TON CLASS B RIP-RAP
14 SY GEOTEXTILE
5 CU. YD. DDE

**DETAIL 42**
STANDARD BASE DITCH
( Not to Scale)

Natural Ground, 4:1, D, 4:1, Natural Ground; d, Geotextile, B

Min. D= 4 Ft.
Max. d= 1.5 Ft.
B= 4 Ft.

Type of Liner= Class I Rip-Rap

Pipe Outlet at Sta. 23+54 RT
26 Ton Class I Rip-Rap
50 SY GEOTEXTILE
10 CU. YD. DDE

**DETAIL 41**
STANDARD BASE DITCH
( Not to Scale)

Natural Ground, 2:1, D, 2:1, Natural Ground; d, Geotextile, B

Min. D=1.5 Ft.
Max. d=1 Ft.
B=2 Ft.

*NOTE: NO RIP-RAP IN CHANNEL

Type of Liner= CLASS I Rip-Rap

STA. 23+60 LT. (48" PIPE INLET)
8 TON CLASS I RIP-RAP
54 SY GEOTEXTILE
15 CU. YD. DDE

**DETAIL 43**
STANDARD BASE DITCH
( Not to Scale)

Natural Ground, 4:1, D, 4:1, Natural Ground; d, Geotextile, B

Min. D= 2.5 Ft.
Max. d= 1.5 Ft.
B= 2.5 Ft.

Type of Liner= Class I Rip-Rap

PIPE OUTLET AT STA. 31+32 RT.
11 TON CLASS I RIP-RAP
22 SY GEOTEXTILE
8 CU. YD. DDE

CLEARING AND GRUBBING
EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

Note: All Driveway Radii are 20' Unless Otherwise Noted
Note: All Proposed Guardrail to Use Weathered Steel Unless Otherwise Noted

SBG = SHOULDER BERM GUTTER
BDO = BERM DITCH OUTLET
SEE SHEET 19 FOR -L- PROFILE
SEE SHEETS W-1 THRU W-8 FOR RETAINING WALL PLANS

5/14/99

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User:Summerlin, Tyler
Federal Aid Project: BRZ-4754