PROJECT REFERENCE NO.	SHEET NO.
R-2237B	18
RW SHEET NO.	

11-3-04
NORTH CAROLINA PROFESSIONAL SEAL 23472 ENGINEER JONATHAN R. HENDERSON
FOR HYDRAULIC DESIGN ASSOCIATED WITH TEMPORARY DRAINAGE STRUCTURE NUMBER T6
HDR Engineering, Inc. of the Carolinas
3733 National Drive, Suite 207 Raleigh, N.C. 27612

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20677 ENGINEER GREGORY A. KEMPF
11-3-04
HDR Engineering, Inc. of the Carolinas
3733 National Drive, Suite 207 Raleigh, N.C. 27612

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 14180 ENGINEER DOUGLAS E. SKAGGERS
11/04/04
TRANSITE CONSULTING
ENGINEERS, INCORPORATED
1300 Paddock Drive, Suite G-10
Raleigh, N.C. 27609

Excluding Temporary Drainage Structure Number T6
Sta. 187+45 +/-, Dl

REVISIONS
8/17/99

NAD 83

-L-
CURVE LR13
PI = 187+92.84
Δ = 21° 49' 29.4" (LT)
Dc = 5° 43' 46.5"
Θs = 7° 52' 00.2"
Ls = 274.60'
Ts = 330.61'
Lc = 106.32'
Rc = 1,000.00'
LT = 183.25'
ST = 91.70'
e = 0.08
DS = 50 mph

MATCHLINE -L- STA. 184+00.00 SEE SHEET NO. 17

MATCHLINE -L- STA. 198+00.00 SEE SHEET NO. 19

57 U.S.FORESTRY SERVICE DB 0162 PG 0088 TRACT 181-N

58 ELIZABETH C.FREE DB 1117 PG 1334 PB 18 PG 180

56 THERESA SHERMAN,et al DB 0148 PG 0485

-L- TS Sta. 184+62.23
-L- SC Sta. 187+36.83
-L- SC Sta. 193+97.74
-L- CS Sta. 194+00.65
-L- ST Sta. 196+80.65
-L- SRS Sta. 191+17.74
-L- CS Sta. 188+43.14

BL-22 PINC 186+27.58
BL-23 PINC 193+98.00

PROP.R/W
PROP.SLOPE LIMIT
PROPOSED SLOPE LIMIT
PROP.GUARDRAIL
REMOVE EXIST. GUARDRAIL
PROPOSED SOIL DRIVE
PROP.SOIL DRIVE
RECONSTRUCT 100' OF 10' SOIL ROAD
OLD ABANDONED U.S. 321
EXISTING R/W
BREMCO POWER EASEMENT
USFS MONUMENT CORNER 38 TRACT 181N
FSL SEE DETAIL
EXTEND 18" CSP
CL. 'I' RIP-RAP EST. 2 TONS EST. 8 SYFF
RETAIN & CLEAN OUT EXISTING PIPE
TEMPORARY DRAINAGE SEE TRAFFIC CONTROL PLANS REMOVE DI WHEN APPROPRIATE
+44.CAT
+88.CAT
+00.00 80.00 ft.
+00.00 90.00 ft.
+00.00 70.00 ft.
+85.00 100.00 ft.
34.33 TYP.
35 TYP.
15" RCP
18" CSP
2GI
3GI-A
T6
N 43° 46' 14.5" W
N 48° 37' 15.9" W

DETAIL FSL FALSE SUMP
Outside Ditch Traffic Flow
0.5 Ft. Min. 1.0' Ft. Max.
+2.0 Ft
10H 20H
S
(Not to Scale)
CI etc.
S=Ditch Slope
℄ Proposed Ditch
-L- 187+66 (LT.)

-L-
CURVE LR14
PI = 194+00.65
Δ = 16° 58' 28.0" (RT)
Dc = 6° 00' 00.0"
Θs = 8° 24' 00.0"
Ls = 280.00'
Ts = 282.91'
Lc = 2.91'
Rc = 954.93'
LT = 186.88'
ST = 93.52'
e = 0.08
DS = 50 mph

NOTES:
1. DRIVEWAY RETURN RADII ARE 10' UNLESS OTHERWISE SHOWN
2. ALL CSP WILL BE ROD LUG AND GASKET CONNECTOR
3. NO RIP RAP TO BE PLACED IN STREAM BED/CREEK BOTTOM

REFERENCES:
FOR -L- PROFILE SEE SHEET 46

11/03/2004
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