PROJECT REFERENCE NO.	SHEET NO.
R-2237B	04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20677 ENGINEER GREGORY A. KEMPF 11-3-04

NORTH CAROLINA PROFESSIONAL SEAL 14160 ENGINEER DOUGLAS E. HUMPHRIES 11/03/04

HDR Engineering, Inc. of the Carolinas
3733 National Drive, Suite 207 Raleigh, N.C. 27612

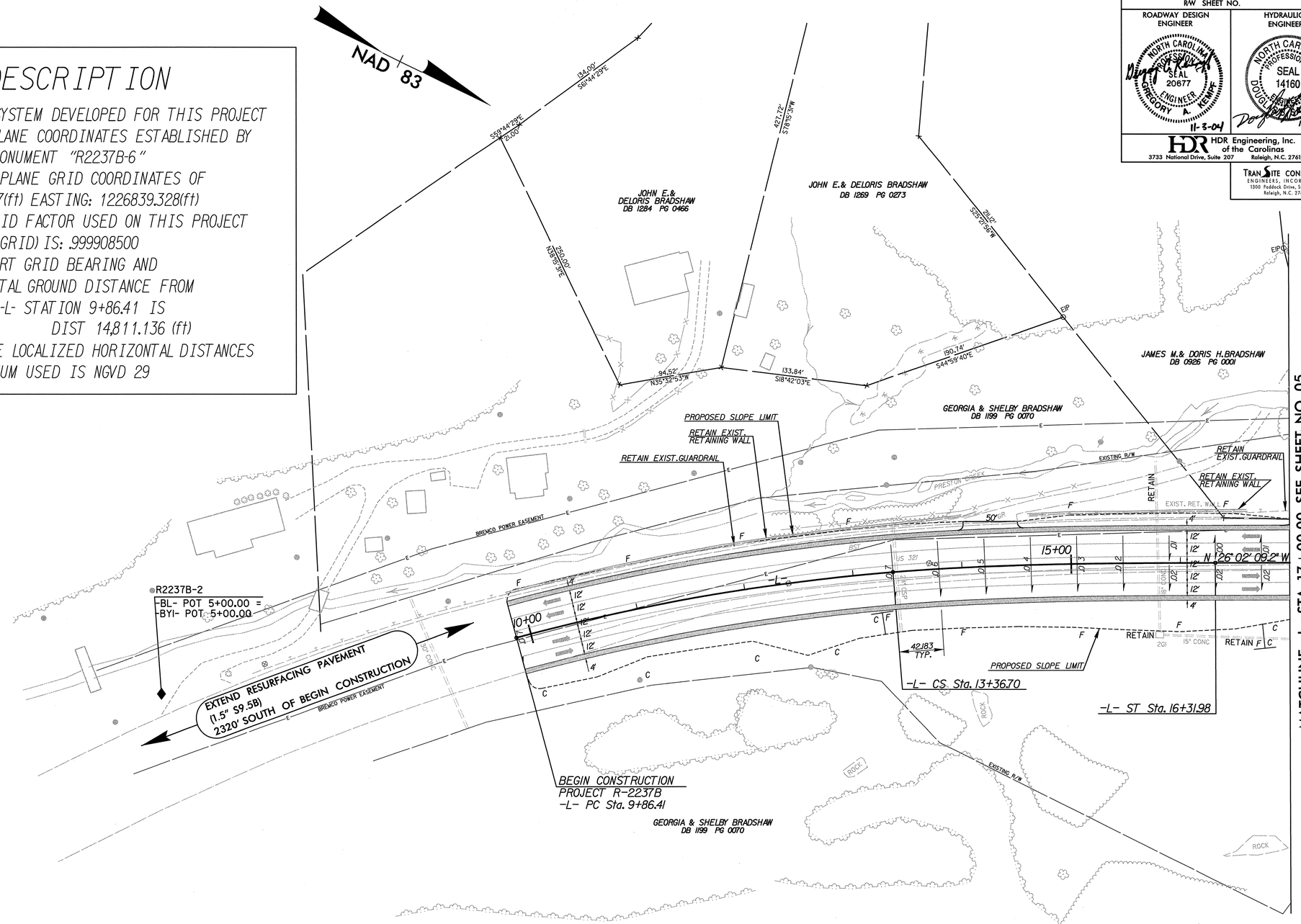
TRANSITE CONSULTING ENGINEERS, INCORPORATED
1300 Paddock Drive, Suite G-10 Raleigh, N.C. 27609

REVISIONS

8/17/99

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R2237B-6"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 854180.257(ft) EASTING: 1226839.328(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: .999908500
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R2237B-6" TO -L- STATION 9+86.41 IS
S 25° 54' 15.57" E DIST 14,811.136 (ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NGVD 29



-L-

CURVE LRI
PI Sta 11+62.04
Δ = 10° 27' 25.5" (RT)
D = 2° 59' 06.9"
L = 350.29
T = 175.63'
R = 1,919.29'
e = 0.07
DS = 50 mph

PIs Sta 14+35.18
Θ_s = 4° 24' 26.8"
Ls = 295.28'
LT = 196.91'
ST = 98.48'

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 32

11/02/2004
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