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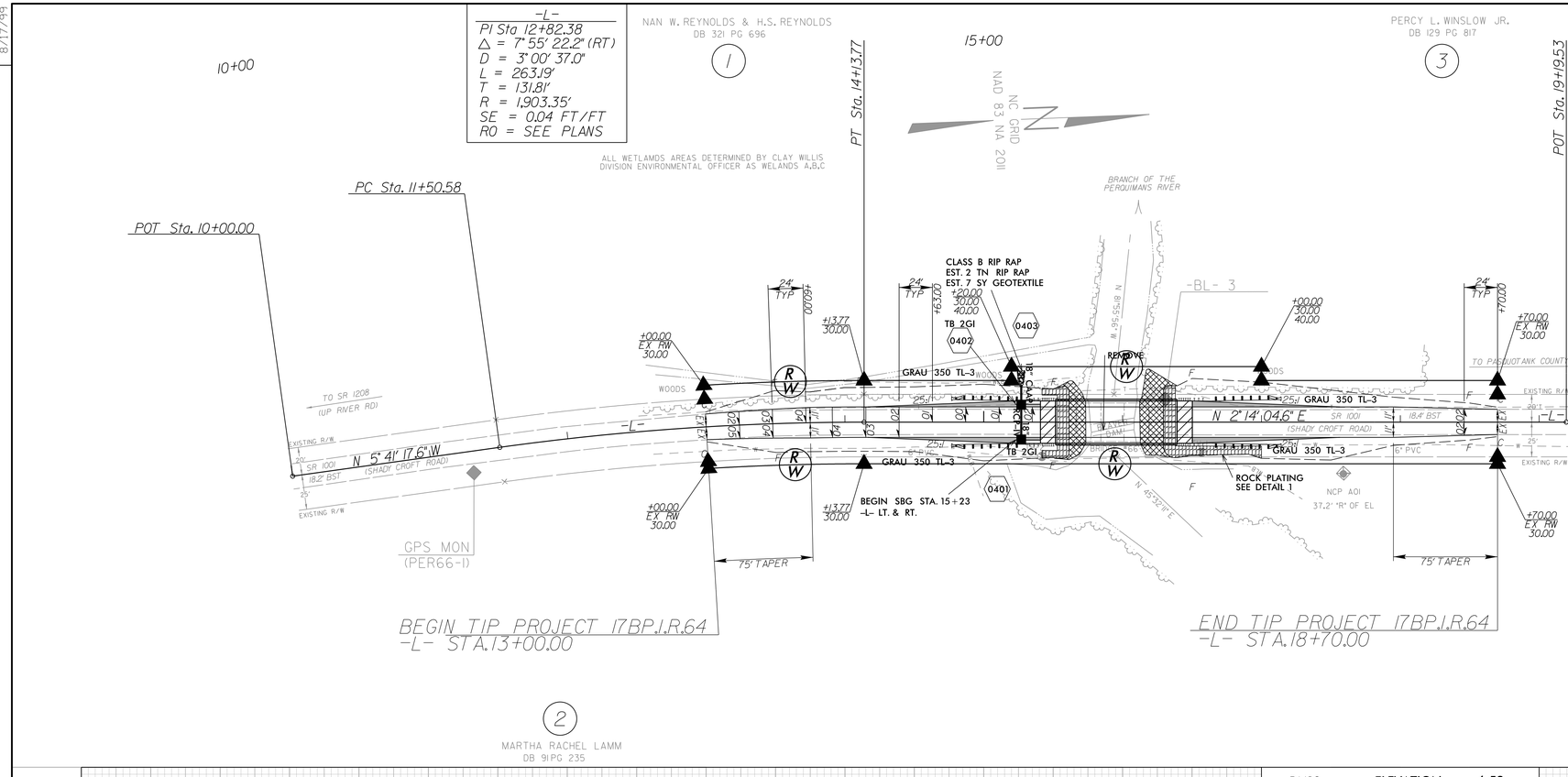
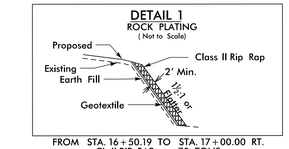
PROJECT REFERENCE NO.	SHEET NO.
17BP.1.R.64	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 21116 ENGINEER BOB A. MAY

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 18462 ENGINEER JAMES C. DAVIS

WETHERILL ENGINEERING
559 Jones Franklin Rd. Suite 164
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



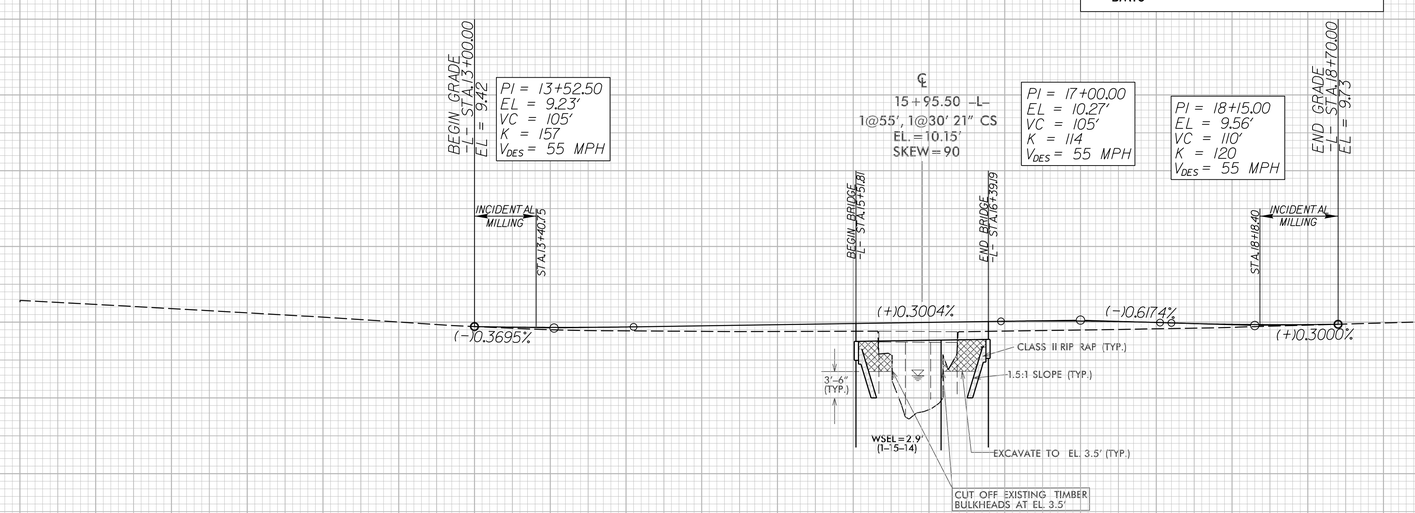


FROM STA. 16+50.19 TO STA. 17+00.00 RT.
CL II RIP RAP = 70 TONS
GEOTEXTILE = 100 SY

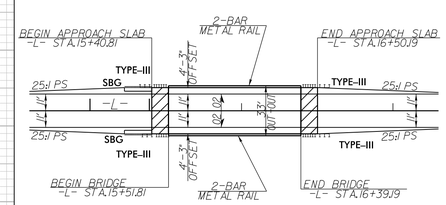
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "PER66-2"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 942199.803(ft) EASTING: 2734113.707(ft)
ELEVATION: 9.42(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999504585
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "PER66-2" TO -L- STATION 13+00.00 IS
S 0° 39' 56.12" W 680.28'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

BM10 ELEVATION = 6.52
N 941977 E 2734157
BL STATION 11+29.00 53 RIGHT
BM10



SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP



SEE SHEET S-1 THRU S-21 FOR STRUCTURE PLANS

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1100	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 6.3	FT
BASE DISCHARGE	= 1400	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 7.06	FT
OVERTOPPING DISCHARGE	= >1900	CFS
OVERTOPPING FREQUENCY	= >500	YRS
OVERTOPPING ELEVATION	= 9.6	FT
DATE OF SURVEY	= 1-15-14	
W.S.ELEVATION AT DATE OF SURVEY	= 2.9	FT

REVISIONS

8/17/99

12/22/2014 2:42:26 PM
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