PROJECT REFERENCE NO.	SHEET NO.
BD-5102Z	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 11274 BRYCE EDWARD EATMON, JR. — 12/4/2015

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 11274 BRYCE EDWARD EATMON, JR. — 12/4/2015

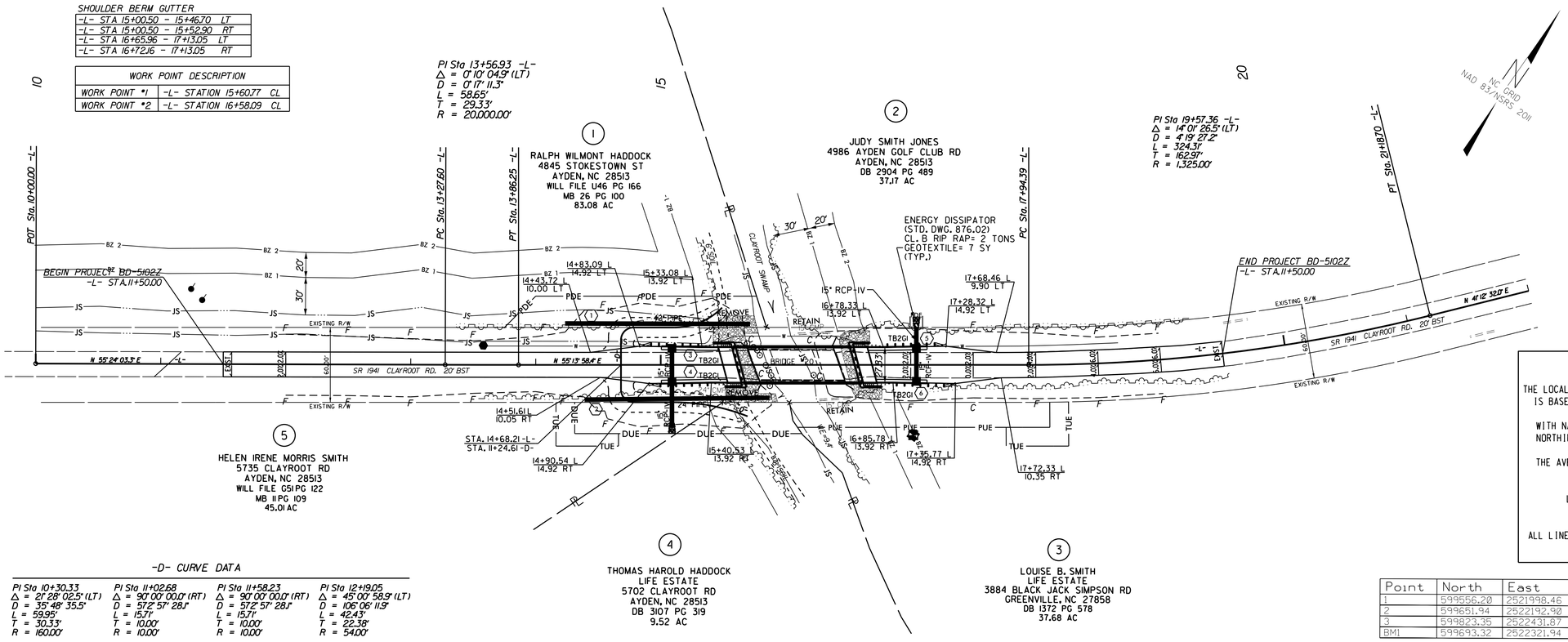
50 25 0 50 100

PLANS

SHOULDER BERM GUTTER

-L-	STA 15+00.50 - 15+46.70	LT
-L-	STA 15+00.50 - 15+52.90	RT
-L-	STA 16+65.96 - 17+13.05	LT
-L-	STA 16+72.16 - 17+13.05	RT

WORK POINT DESCRIPTION		
WORK POINT #1	-L- STATION 15+60.77	CL
WORK POINT #2	-L- STATION 16+58.09	CL



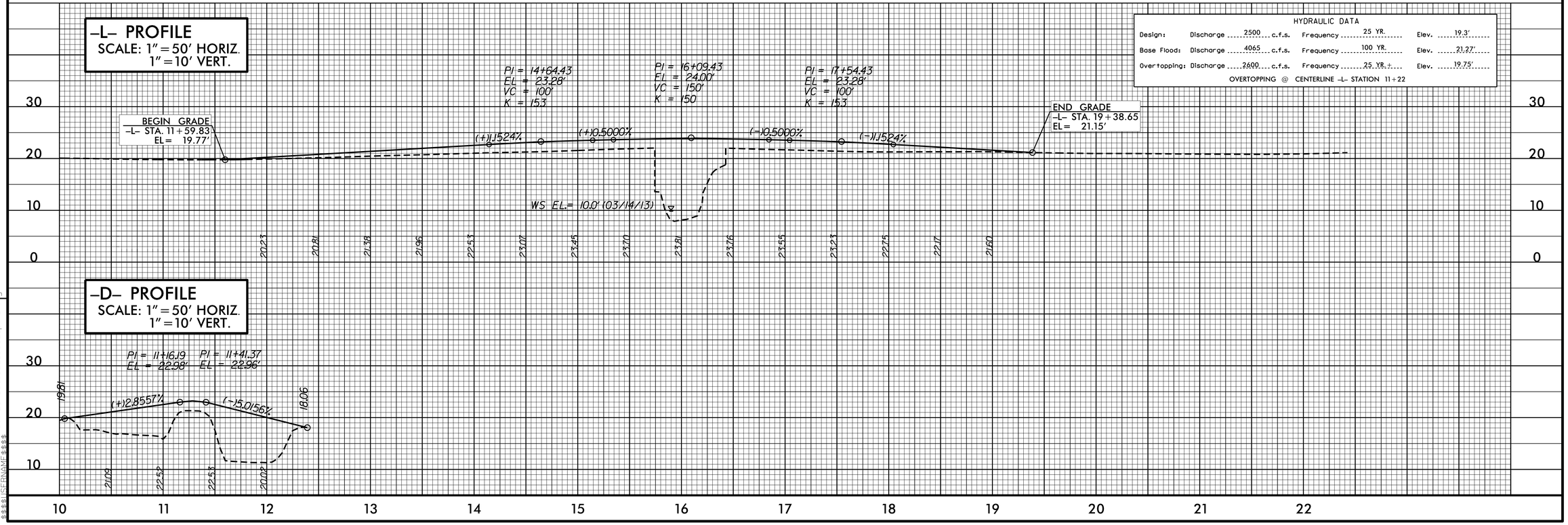
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL-1"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 599556.196 (ft) EASTING: 2521998.455(ft)
ELEVATION: 19.797(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999880060
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-1" TO -L- STATION 11+50.00 IS
S 51°07' 34" W 208.6207'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Point	North	East	Elevation	Description
1	599556.20	2521998.46	19.80	NCDOT GPS BD5102Z BL-1
2	599651.94	2522192.90	21.41	BL-2
3	599823.35	2522431.87	21.23	BL-3
BM1	599693.32	2522321.94	19.69	RR SPIKE IN 15" HARDWOOD

-D- CURVE DATA

PI Sta 10+30.33	PI Sta 11+02.68	PI Sta 11+58.23	PI Sta 12+19.05
Δ = 21°28' 02.5" (LT)	Δ = 90°00' 00.0" (RT)	Δ = 90°00' 00.0" (RT)	Δ = 45°00' 58.9" (LT)
D = 35°48' 35.5"	D = 57°27' 28.1"	D = 57°27' 28.1"	D = 106°06' 11.9"
L = 59.95'	L = 15.71'	L = 15.71'	L = 42.43'
T = 30.33'	T = 10.00'	T = 10.00'	T = 22.38'
R = 160.00'	R = 10.00'	R = 10.00'	R = 54.00'



HYDRAULIC DATA

Design:	Discharge 2500 c.f.s.	Frequency 25 YR.	Elev. 19.3'
Base Flood:	Discharge 4065 c.f.s.	Frequency 100 YR.	Elev. 21.27'
Overtopping:	Discharge 2600 c.f.s.	Frequency 25 YR. +	Elev. 19.75'

OVERTOPPING @ CENTERLINE -L- STATION 11+22

REVISIONS

8/17/99

30-NOV-2015 06:59
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