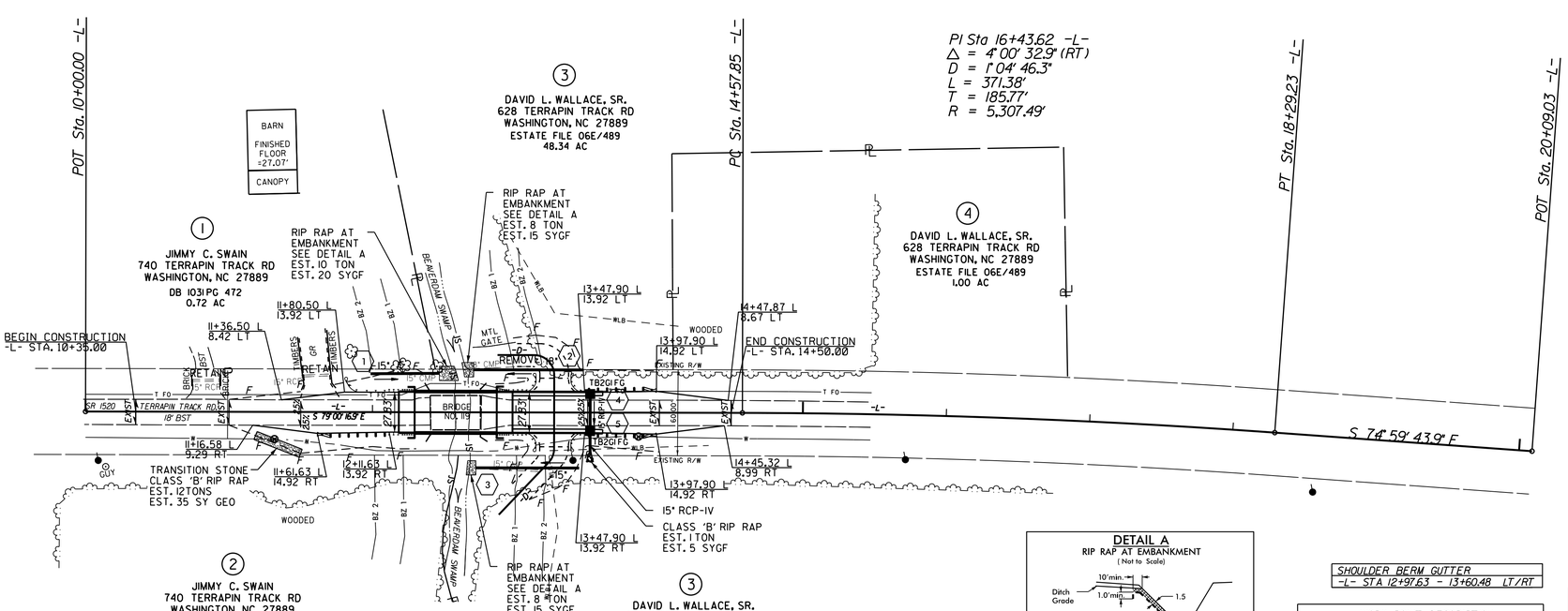
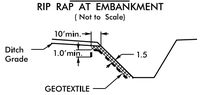
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| 17BP.2.R.55 | 4 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| 11/16/2015 | 11/16/2015 |




NOTE:
ALL 2:1 SLOPES ARE TO BE MATTED.

## DETAIL A
RIP RAP AT EMBANKMENT
( Not to Scale)




Type of Liner= Class 'I' Rip-Rap

| SHOULDER BERM GUTTER |
|---|
| -L- STA 12+97.63 - 13+60.48 LT/RT |

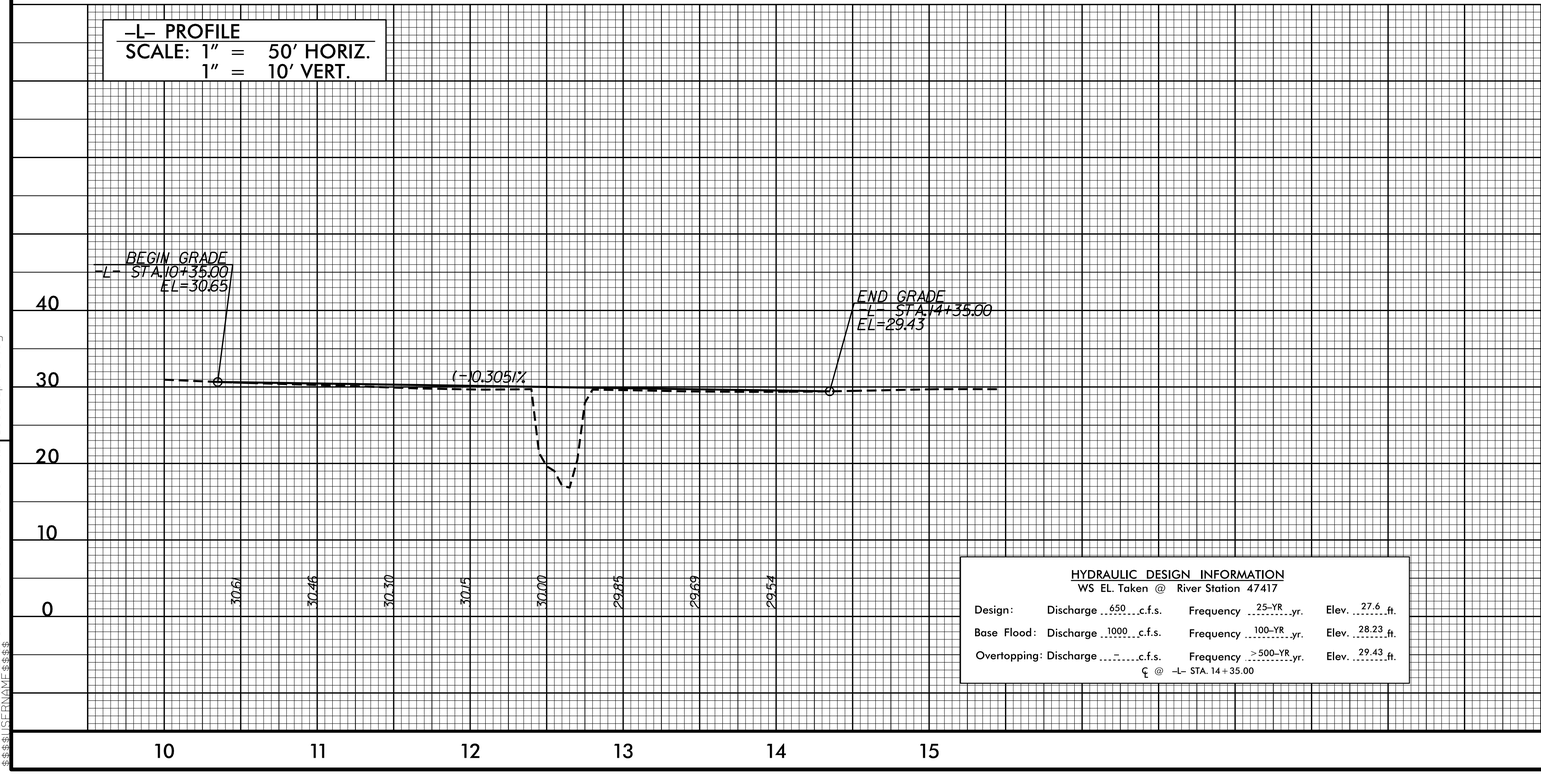
| WORK POINT DESCRIPTION | | |
|---|---|---|
| WORK POINT #1 | -L- STATION 12+29.38 | CL |
| WORK POINT #2 | -L- STATION 12+86.63 | CL |

## DATUM DESCRIPTION

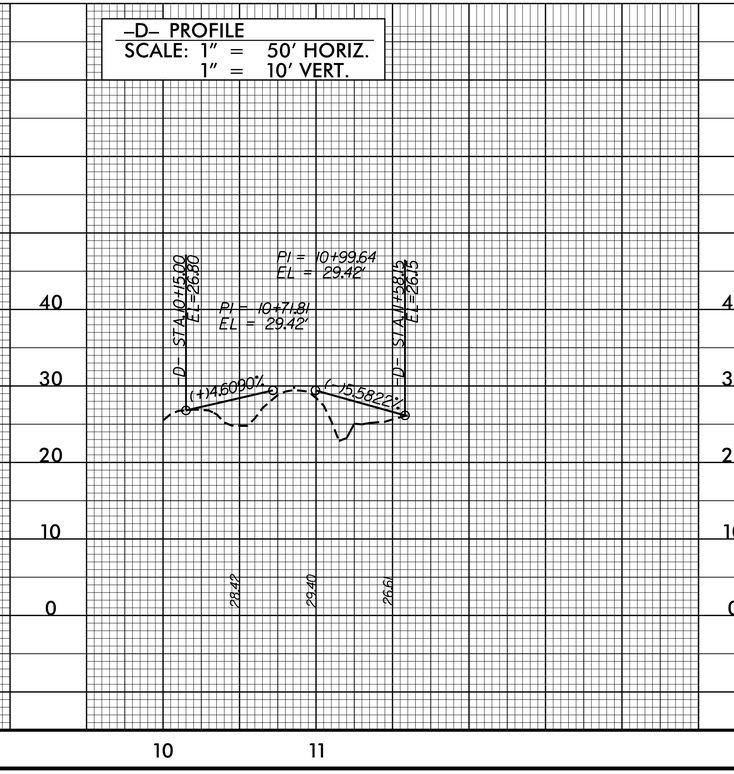
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-2"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 663579.332(ft) EASTING: 2617451.194(ft)
ELEVATION: 33.62(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989076
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-2" TO -L- STATION 10+00 IS
S 77° 54' 58.03" E 361.26'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

| Point | North | East | Elevation | Description |
|---|---|---|---|---|
| 3 | 663432.3670 | 2618082.4690 | 28.4500 | BL-3 |
| 4 | 663384.0560 | 2618339.6830 | 28.3000 | BL-4 |
| 100 | 663492.7630 | 2618038.4140 | 25.1300 | NCGS "V212"-1979 |
| GPS2 | 663579.3320 | 2617451.1940 | 33.6200 | 06-0119 GPS-2 |

## -L- PROFILE
SCALE: 1" = 50' HORIZ.
1" = 10' VERT.




## -D- PROFILE
SCALE: 1" = 50' HORIZ.
1" = 10' VERT.




## HYDRAULIC DESIGN INFORMATION
WS EL. Taken @ River Station 47417

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design: | Discharge | 650 | c.f.s. | Frequency | 25-YR | yr. | Elev. 27.6 ft. |
| Base Flood: | Discharge | 1000 | c.f.s. | Frequency | 100-YR | yr. | Elev. 28.23 ft. |
| Overtopping: | Discharge | - | c.f.s. | Frequency | >500-YR | yr. | Elev. 29.43 ft. |

℄ @ -L- STA. 14+35.00

REVISIONS

8/17/99

28-OCT-2015 17:33
S:\PROJECTS\BRIDGE\REPORT\Beaufort\Beaufort119\Beaufort119_ddc2_psh_4.dgn
$$USERNAME$$