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PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.118	4

R/W SHEET NO.

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 039222 ENGINEER — DOCUSIGNED BY: JEFFREY D. MORTON — 9/1/2017

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 036188 ENGINEER — DOCUSIGNED BY: JOSHUA WILLIAMS — 9/1/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/NA 2011

RS&H

8/17/99

REVISIONS

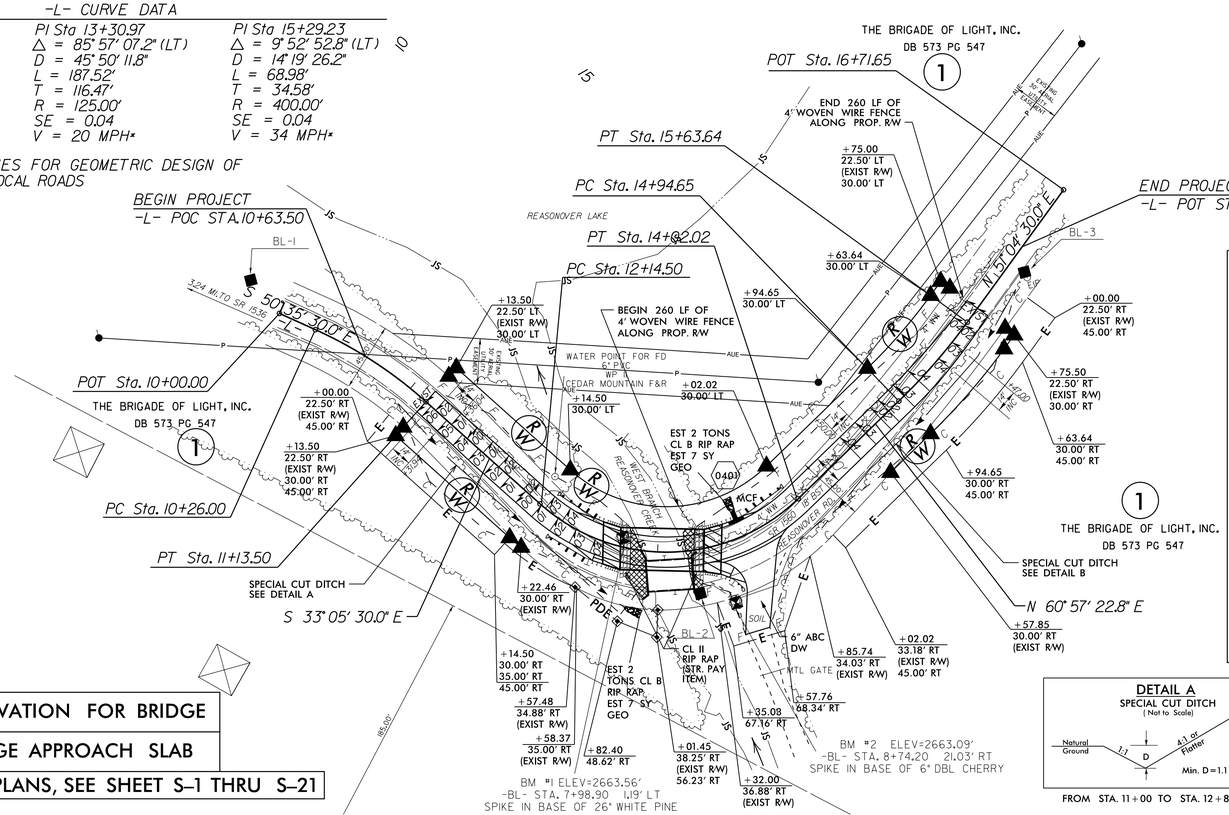
PLAN REVISION 08-31-17: ADDED EXISTING PAVEMENT TYPE AND WIDTH; TL-2 ANCHOR UNIT CHANGED TO GREU TL-2; BACKSLOPE REVISED ON SPECIAL CUT DITCH DETAIL B.

PLAN REVISION 08-31-17: GEOTEXTILE LABEL REVISED; SPECIAL CUT DITCH CALLOUTS ADDED; CLASS II RIP RAP CALLOUT ADDED.

-L- CURVE DATA

PI Sta 10+70.09	PI Sta 13+30.97	PI Sta 15+29.23
Δ = 17° 30' 00.0" (RT)	Δ = 85° 57' 07.2" (LT)	Δ = 9° 52' 52.8" (LT)
D = 20° 00' 00.0"	D = 45° 50' 11.8"	D = 14° 19' 26.2"
L = 87.50'	L = 187.52'	L = 68.98'
T = 44.09'	T = 116.47'	T = 34.58'
R = 286.48'	R = 125.00'	R = 400.00'
SE = EXIST.	SE = 0.04	SE = 0.04
V = EXIST.	V = 20 MPH*	V = 34 MPH*

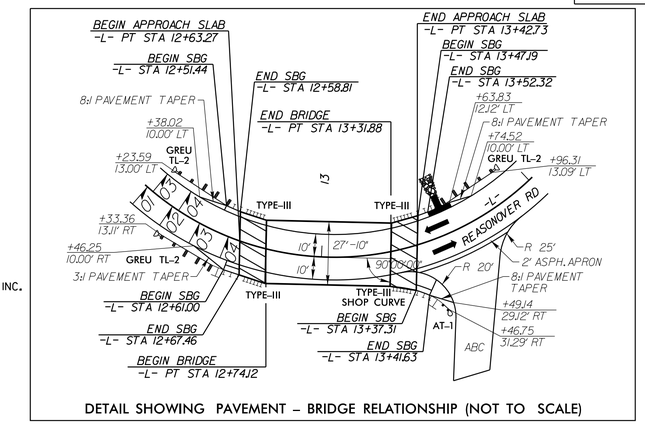
* AASHTO - GUIDELINES FOR GEOMETRIC DESIGN OF VERY LOW-VOLUME LOCAL ROADS



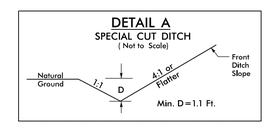
EXCAVATION FOR BRIDGE

BRIDGE APPROACH SLAB

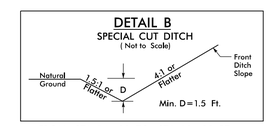
FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-21



DETAIL SHOWING PAVEMENT – BRIDGE RELATIONSHIP (NOT TO SCALE)



FROM STA. 11+00 TO STA. 12+85 RT



FROM STA. 14+00 TO STA. 16+00 RT

BM #1
SPIKE IN BASE OF 26 INCH WHITE PINE TREE
-BL- STA 7+98.90 1.19' LEFT
-L- STA 12+75.63 6.08' LEFT
ELEV.= 2663.56'

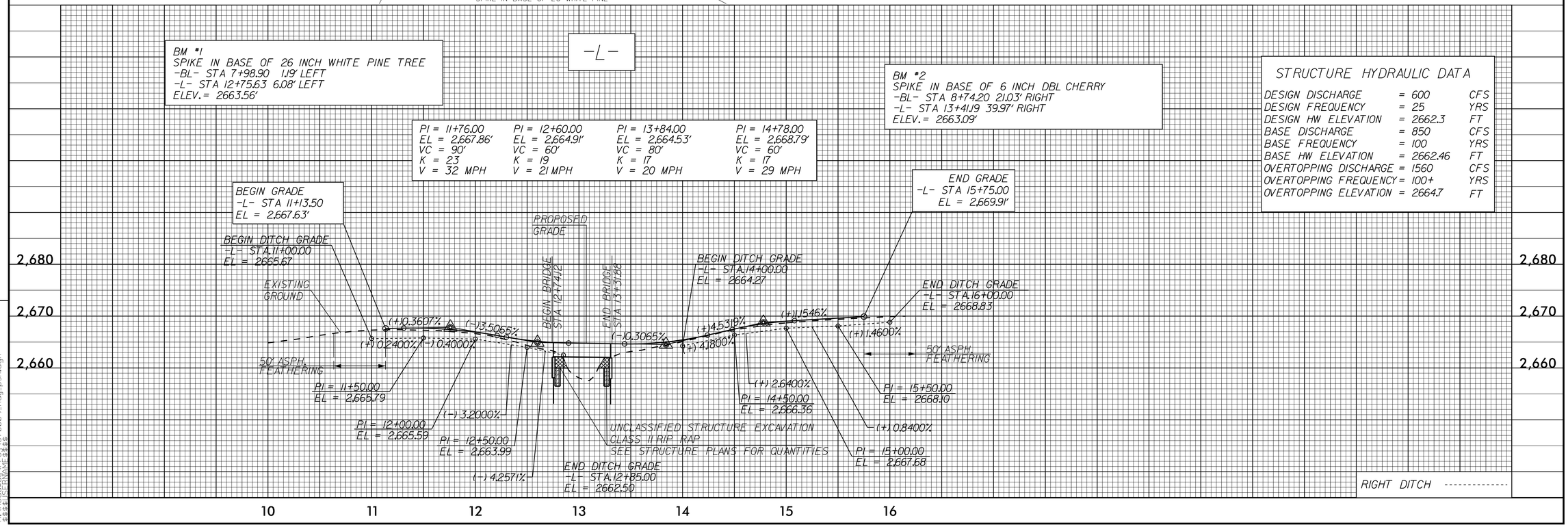
-L-

BM #2
SPIKE IN BASE OF 6 INCH DBL CHERRY
-BL- STA 8+74.20 21.03' RIGHT
-L- STA 13+41.19 39.97' RIGHT
ELEV.= 2663.09'

PI = 11+76.00	PI = 12+60.00	PI = 13+84.00	PI = 14+78.00
EL = 2,667.86'	EL = 2,664.91'	EL = 2,664.53'	EL = 2,668.79'
VC = 90'	VC = 60'	VC = 80'	VC = 60'
K = 23	K = 19	K = 17	K = 17
V = 32 MPH	V = 21 MPH	V = 20 MPH	V = 29 MPH

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 600	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 2662.3	FT
BASE DISCHARGE	= 850	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 2662.46	FT
OVERTOPPING DISCHARGE	= 1560	CFS
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING ELEVATION	= 2664.7	FT



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$$$$USERNAME$$$$