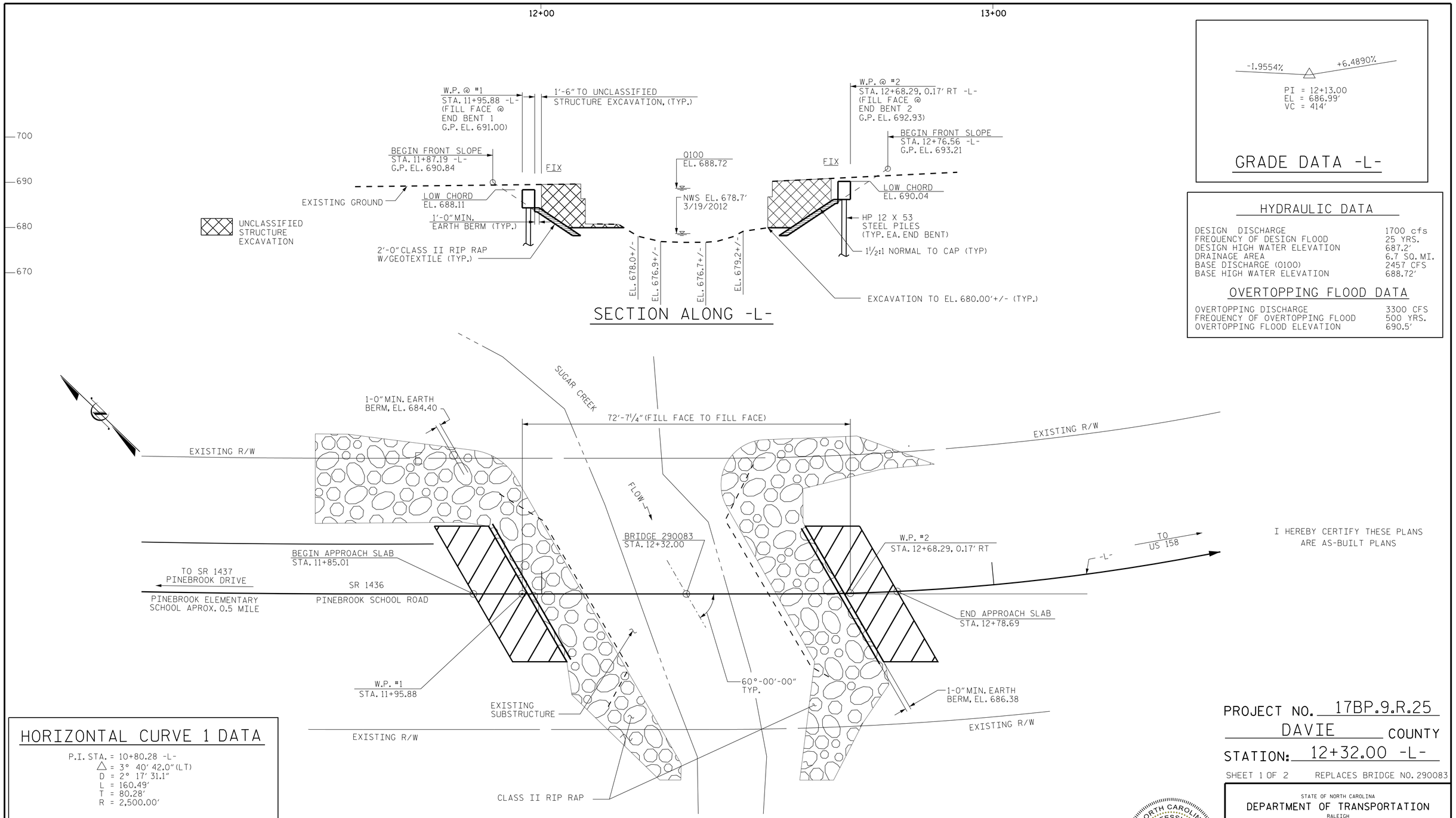
DocuSign Envelope ID: 63B99F10-5B56-439E-BCE5-B5D5838AF970



-1.9554% +6.4890%

PI = 12+13.00
EL = 686.99'
VC = 414'

GRADE DATA -L-

HYDRAULIC DATA

DESIGN DISCHARGE	1700 cfs
FREQUENCY OF DESIGN FLOOD	25 YRS.
DESIGN HIGH WATER ELEVATION	687.2'
DRAINAGE AREA	6.7 SQ. MI.
BASE DISCHARGE (Q100)	2457 CFS
BASE HIGH WATER ELEVATION	688.72'

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	3300 CFS
FREQUENCY OF OVERTOPPING FLOOD	500 YRS.
OVERTOPPING FLOOD ELEVATION	690.5'

I HEREBY CERTIFY THESE PLANS
ARE AS-BUILT PLANS

HORIZONTAL CURVE 1 DATA

P.I. STA. = 10+80.28 -L-
△ = 3° 40' 42.0" (LT)
D = 2° 17' 31.1"
L = 160.49'
T = 80.28'
R = 2,500.00'

HORIZONTAL CURVE 2 DATA

P.I. STA. = 13+54.41 -L-
△ = 23° 01' 35.7" (LT)
D = 11° 50' 04.5"
L = 194.57'
T = 98.79'
R = 485.00'

PROJECT NO. 17BP.9.R.25
DAVIE COUNTY
STATION: 12+32.00 -L-

SHEET 1 OF 2 REPLACES BRIDGE NO. 290083

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
BRIDGE ON SR 1436
BETWEEN SR 1437 AND HWY 158
OVER SUGAR CREEK

NORTH CAROLINA PROFESSIONAL SEAL 030046 ENGINEER MATTHEW PAYNE
3/30/2016
DocuSigned by: Matthew Payne
3C4D1B4E4E4D7...

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

ATKINS
1616 E. MILLBROOK ROAD, SUITE #310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

SHEET NO. S-1
TOTAL SHEETS 13

DRAWN BY : C. BLAKES DATE : 11/2012
CHECKED BY : M. PAYNE DATE : 03/2016