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

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
17BP.9.R.25	4
R/W SHEET NO.	

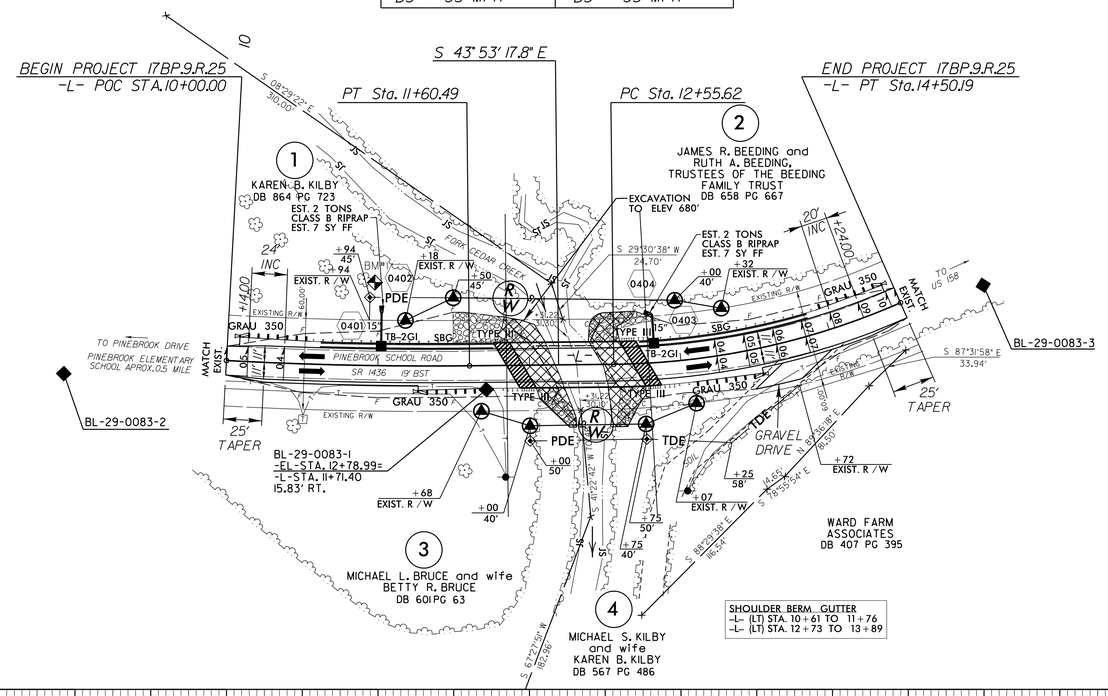
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 024929 ENGINEER CLINTON J. MORGAN
DocuSigned by: Clinton J. Morgan 3/31/2016

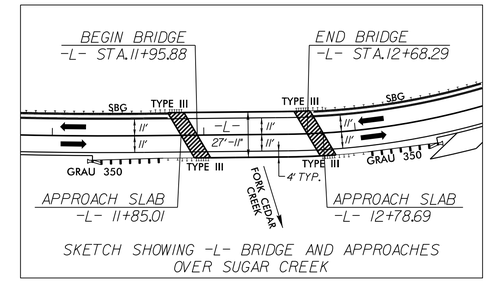
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 041957 ENGINEER DEAN ROBERT GOODLSON
DocuSigned by: 3/31/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-	
PI Sta 10+80.28	PI Sta 13+54.41
△ = 3° 40' 42.0" (LT)	△ = 23° 01' 35.7" (LT)
D = 2° 17' 31.1"	D = 11° 50' 04.5"
L = 160.49'	L = 194.57'
T = 80.28'	T = 98.79'
R = 2,500.00'	R = 485.00'
SE = 0.04	SE = 0.04
DS = 35 MPH	DS = 35 MPH

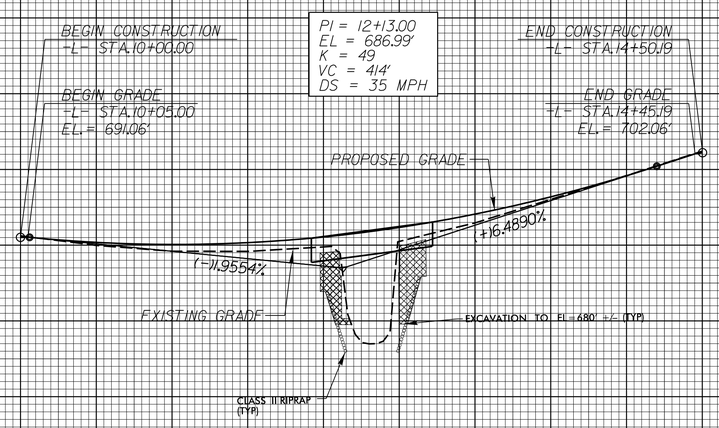
NAD 83/ NSRS 2007





SKETCH SHOWING -L- BRIDGE AND APPROACHES OVER SUGAR CREEK

UNCLASSIFIED EXCAVATION



BM #1 (NAVD 88)
RR SPIKE IN NE ROOT OF AN 18" OAK
-L- STA. 10+96.68 (54.64' LT)
N 809919 E 1552407
EL = 684.14'

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	=	1,700	CFS
DESIGN FREQUENCY	=	25	YRS
DESIGN HW ELEVATION	=	687.2	FT
BASE DISCHARGE	=	2,457	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	688.72	FT
OVERTOPPING DISCHARGE	=	3,300	CFS
OVERTOPPING FREQUENCY	=	500	YRS
OVERTOPPING ELEVATION	=	690.5	FT

FOR STRUCTURE PLAN, SEE SHEET S-1 THRU S-13

29-MAR-2016 16:24
R:\Roadway\Proj\2900083_Rdy_psh04.dgn
$$$$USERNAME$$$$