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8/17/99

REVISIONS

MACON COUNTY
BRIDGE #550181

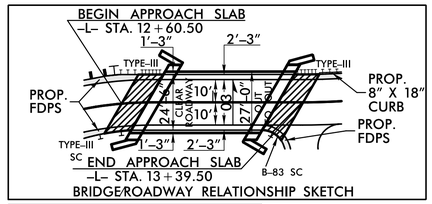
PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.207	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 35018 ENGINEER JIMMY L. TERRY

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 038697 ENGINEER DAVID B. PETTY

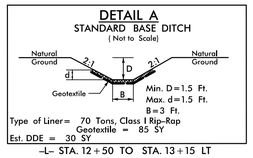
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

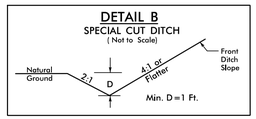


BRIDGE/ROADWAY RELATIONSHIP SKETCH

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-38



-L- STA 12+50 TO STA. 13+15 LT

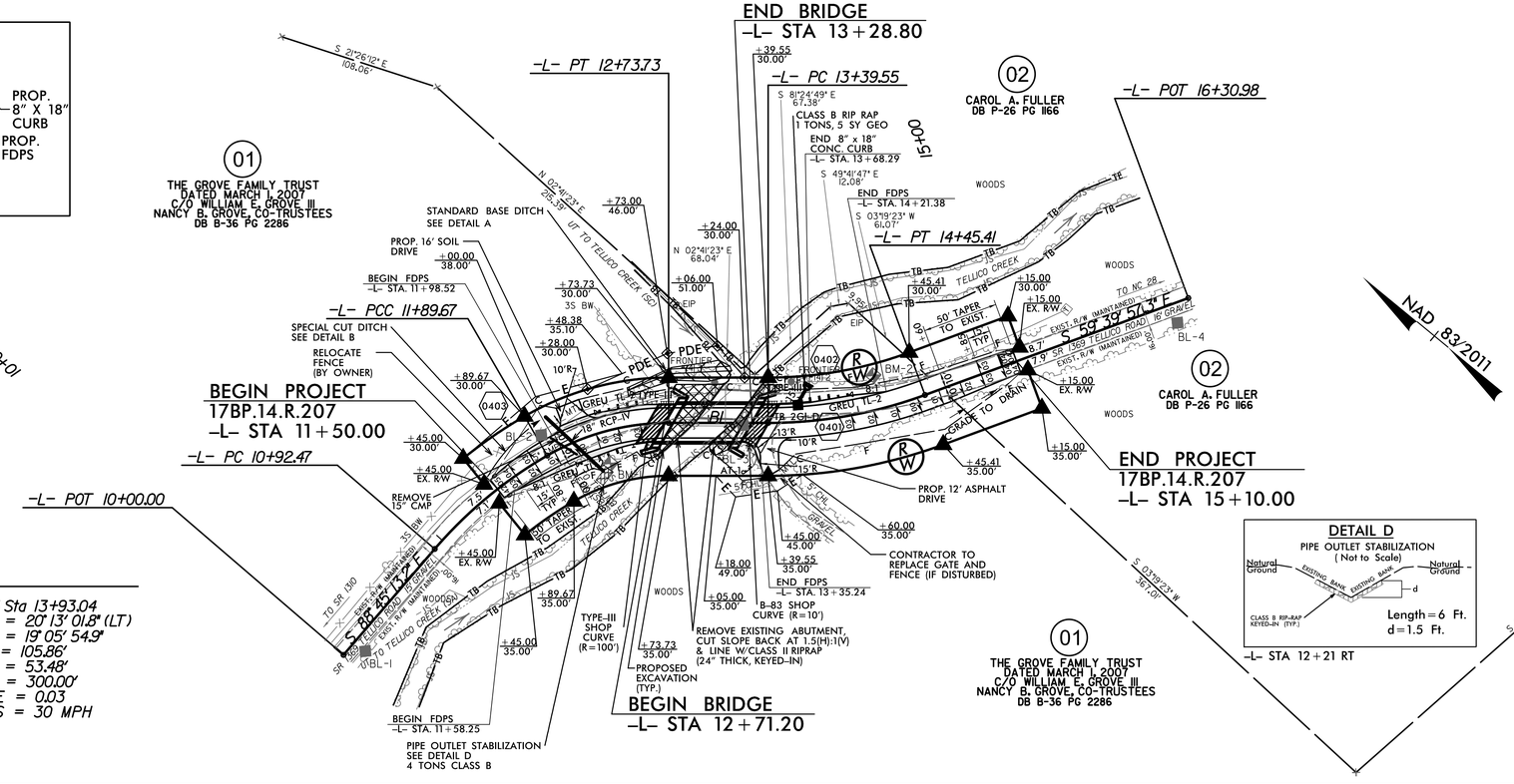


-L- STA 11+50 TO 12+00 LT

-L- CURVE DATA

PI Sta 11+41.53	PI Sta 12+32.69	PI Sta 13+93.04
△ = 19° 12' 14.3" (RT)	△ = 30° 06' 03.4" (RT)	△ = 20° 13' 01.8" (LT)
D = 19° 45' 25.8"	D = 35° 48' 35.5"	D = 19° 05' 54.9"
L = 97.20'	L = 84.06'	L = 105.86'
T = 49.06'	T = 43.02'	T = 53.48'
R = 290.00'	R = 160.00'	R = 300.00'
SE = NC	SE = -0.03	SE = 0.03
DS = 25 MPH	DS = 20 MPH	DS = 30 MPH

BI =S 39° 26' 55.5" E

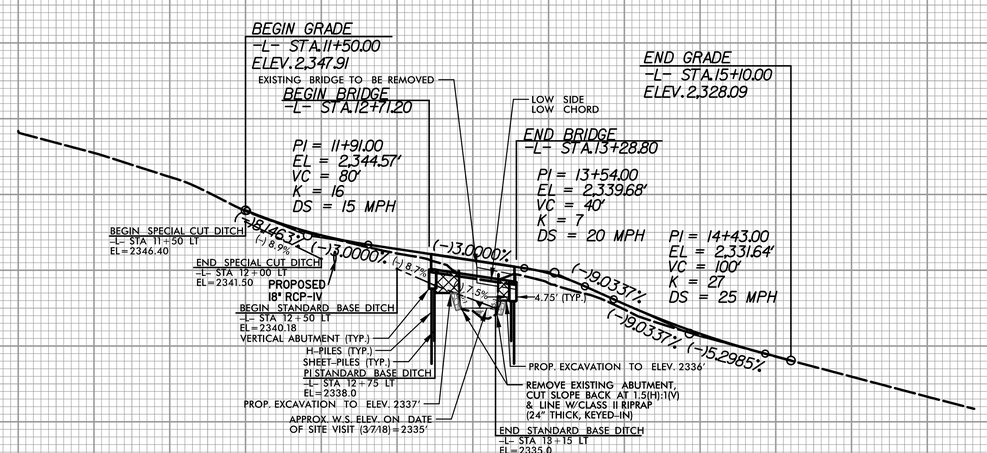


-L- STA 12+21 RT

PIPE HYDRAULIC DATA

Str#0403 18" RCP -L- Sta.12+09

DRAINAGE AREA	= 0.94	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 2.9	CFS
DESIGN HW ELEVATION	= 2342.2	FT
100 YEAR DISCHARGE	= 3.2	CFS
100 YEAR HW ELEVATION	= 2342.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 4.2+	CFS
OVERTOPPING ELEVATION	= 2344.1	FT



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	750 CFS
DESIGN FREQUENCY	=	25 YRS
DESIGN HW ELEVATION	=	2339.7 FT
BASE DISCHARGE	=	1100 CFS
BASE FREQUENCY	=	100 YRS
BASE HW ELEVATION	=	2341.5 FT
OVERTOPPING DISCHARGE	=	820
OVERTOPPING FREQUENCY	=	25+ YRS
OVERTOPPING ELEVATION	=	2341.0 FT*

*OVERTOPPING ELEVATION REPRESENTS LOWEST HIGH POINT ON DECK/ROADWAY WHICH OCCURS AT -L- STA.13+30 RT

DATE OF SITE VISIT = 3/7/2018

APPROX. W.S. ELEVATION ON DATE OF SITE VISIT = 2335 FT

7/30/2019
X:\NCDOT\Division 14 - 2017\Macon 550181\Roadway\Proj\550181_Rdy_psh.dgn
bpetty@tgs.vzn