5/14/99

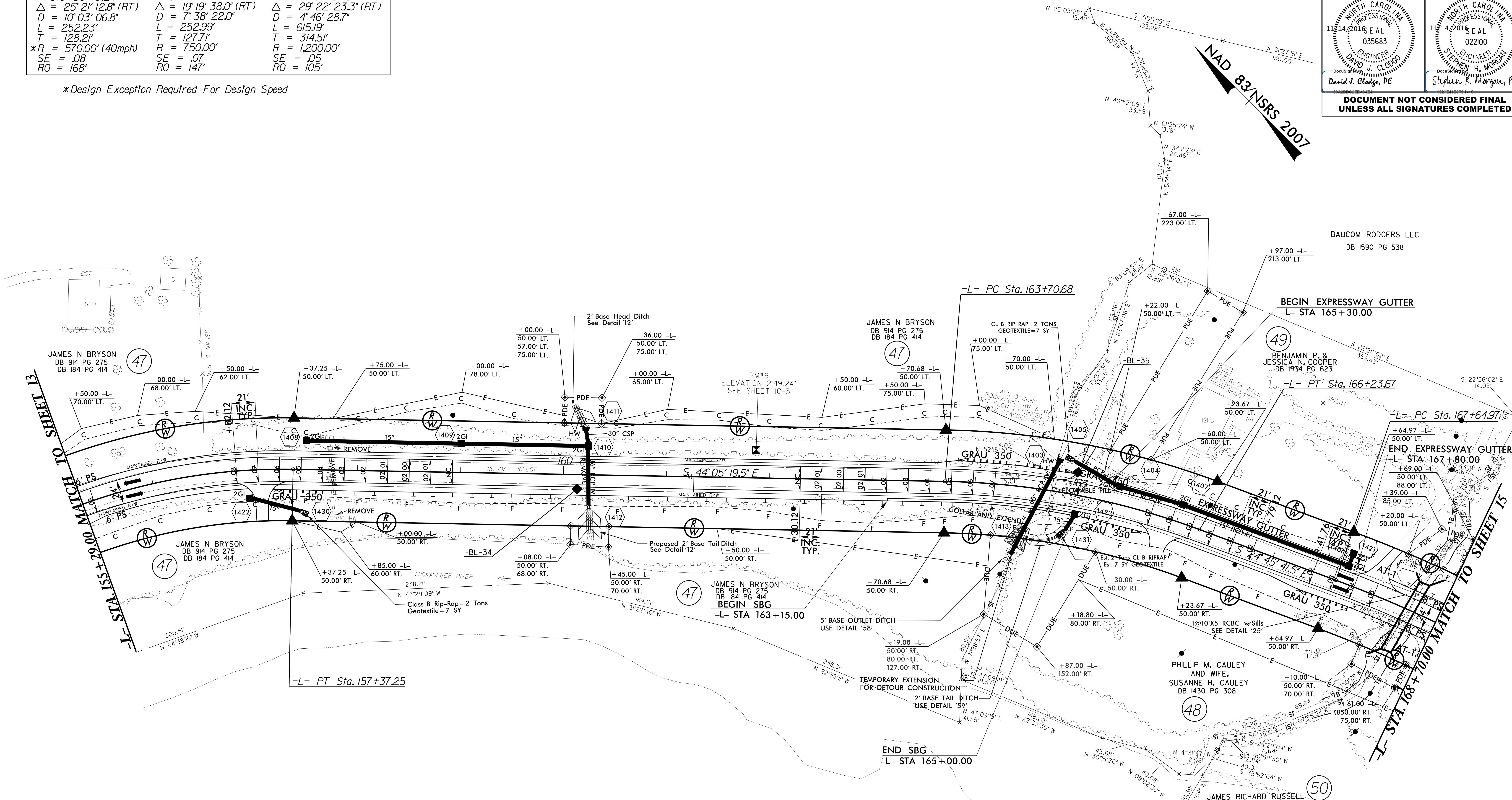
PROJECT REFERENCE NO.	SHEET NO.
R-4753	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 035683 ENGINEER DAVID J. CLODGO — 11/14/2016 — DocuSigned by: David J. Clodgo, PE	NORTH CAROLINA PROFESSIONAL SEAL 022100 ENGINEER STEPHEN R. MORGAN — 11/14/2016 — DocuSigned by: Stephen R. Morgan, PE

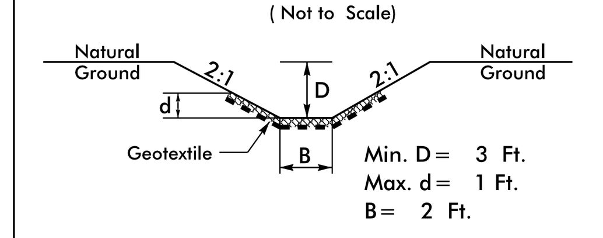
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

-L-		
PI Sta 156+13.24	PI Sta 164+98.39	PI Sta 170+79.48
Δ = 25° 21' 12.8" (RT)	Δ = 19° 19' 38.0" (RT)	Δ = 29° 22' 23.3" (RT)
D = 10° 03' 06.8"	D = 7° 38' 22.0"	D = 4° 46' 28.7"
L = 252.23'	L = 252.99'	L = 615.19'
T = 128.21'	T = 127.71'	T = 314.51'
*R = 570.00' (40mph)	R = 750.00'	R = 1,200.00'
SE = .08	SE = .07	SE = .05
RO = 168'	RO = 147'	RO = 105'

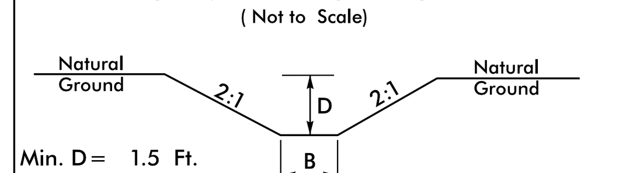
*Design Exception Required For Design Speed





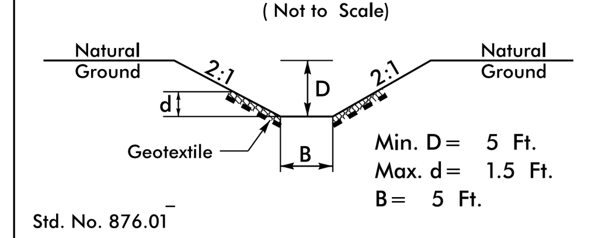
DETAIL 12
STANDARD BASE DITCH
(Not to Scale)
Min. D = 3 Ft.
Max. d = 1 Ft.
B = 2 Ft.
Type of Liner = Class I Rip-Rap

STA. 160+24 LT. (PIPE INLET)
12 CU. YD. DDE
20 TON CLASS I RIP-RAP
39 SY GEOTEXTILE
STA. 160+24 RT. (PIPE OUTLET)
15 CU. YD. DDE
28 TON CLASS I RIP-RAP
54 SY GEOTEXTILE



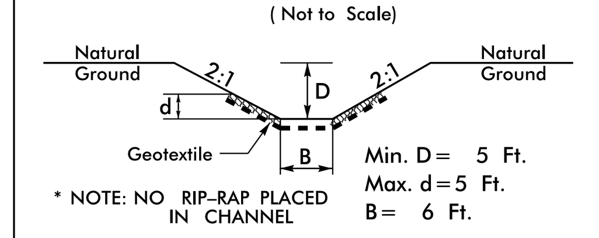
DETAIL 59
STANDARD BASE DITCH
(Not to Scale)
Min. D = 1.5 Ft.
B = 2 Ft.

STA. 164+95 (PIPE OUTLET)
12 CU. YD. DDE



DETAIL 58
STANDARD BASE DITCH
(Not to Scale)
Min. D = 5 Ft.
Max. d = 1.5 Ft.
B = 5 Ft.
Std. No. 876.01
Type of Liner = CLASS I Rip-Rap

STA. 164+58 (PIPE OUTLET)
30 CU. YD. DDE
40 TON CLASS I RIP RAP
75 SY GEOTEXTILE



DETAIL 25
STANDARD BASE DITCH
(Not to Scale)
* NOTE: NO RIP-RAP PLACED IN CHANNEL
Min. D = 5 Ft.
Max. d = 5 Ft.
B = 6 Ft.
Type of Liner = CLASS II Rip-Rap

STA. 168+43 ENTRANCE AND EXIT ON PRPOPSED 10'x5' RCBC

Note: All Driveway Radii are 20' Unless Otherwise Noted
Note: Tie all Driveways to the Right of Way Line. Follow the "Pavement Design for Driveways" Memo Dated March 18, 2002 or as Directed by the Engineer
Note: All Proposed Guardrail to Use Weathered Steel Unless Otherwise Noted

SBG = SHOULDER BERM GUTTER
SEE SHEET 24 FOR -L- PROFILE
SEE SHEET C-1 THRU C-14 FOR CULVERT PLANS

Invalid expression
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USER: