8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-4655	4

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 034407 ENGINEER ANDREW P YOUNG
DocuSigned by: Andrew P. Young 1/3/2017

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 039102 ENGINEER BRANDON T BARHAM
DocuSigned by: Brandon Barham 1/3/2017

STEWART — Firm License No. C-1051, 421 Fayetteville St, Suite 400, Raleigh, NC 27601, T 919.380.8750, www.stewartinc.com

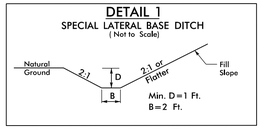
DT3516AE/ECO/GEO — FIRM LICENSE No.P-1148, 1151 SE Cary Parkway, Suite 101, Cary, NC 27518, (919) 567-0055

ECOLOGICAL ENGINEERING

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

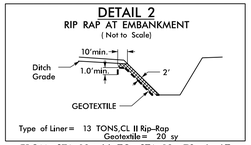
NAD 83/95

DETAIL 1
SPECIAL LATERAL BASE DITCH
(Not to Scale)



FROM STA. 18+78 TO STA. 21+90 –L– LT

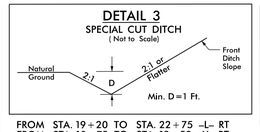
DETAIL 2
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner= 13 TONS CL II Rip-Rap
Geotextile = 20 sy

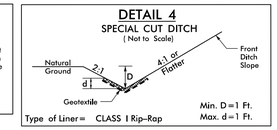
FROM STA. 18+66 TO STA. 18+78 –L– LT

DETAIL 3
SPECIAL CUT DITCH
(Not to Scale)



FROM STA. 19+20 TO STA. 22+75 –L– RT
FROM STA. 10+73 TO STA. 12+58 –Y– RT

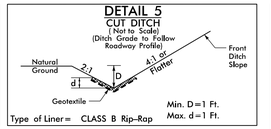
DETAIL 4
SPECIAL CUT DITCH
(Not to Scale)



Type of Liner= CLASS I Rip-Rap

FROM STA. 14+00 TO STA. 16+85 –L– LT
FROM STA. 14+00 TO STA. 15+77 –L– RT

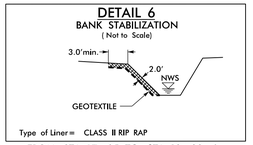
DETAIL 5
CUT DITCH
(Not to Scale)
(Ditch Grade to Follow Roadway Profile)



Type of Liner= CLASS B Rip-Rap

FROM STA. 12+85 TO STA. 14+00 –L– RT

DETAIL 6
BANK STABILIZATION
(Not to Scale)



Type of Liner= CLASS II RIP RAP

FROM STA 17+95 TO STA 18+22 –L–
FROM STA 18+49 TO STA 18+84 –L–

BEGIN TIP PROJECT B-4655
-L-POC Sta. 12+85.00

BEGIN CONSTRUCTION
-L-POC Sta. 12+66.00

POT Sta. 10+00.00
PC Sta. 10+33.61

PT Sta. 15+83.85
-Y-POT Sta. 10+00.00
-L-POT Sta. 16+32.76

END TIP PROJECT B-4655
-L-POC Sta. 22+75.00

POT Sta. 20+00.00
PC Sta. 21+57.75

PT Sta. 23+69.59
POT Sta. 24+00.00

END CONSTRUCTION
-Y- POT Sta. 13+00.00

PC Sta. 13+63.50
PCC Sta. 14+77.88
PT Sta. 15+21.38

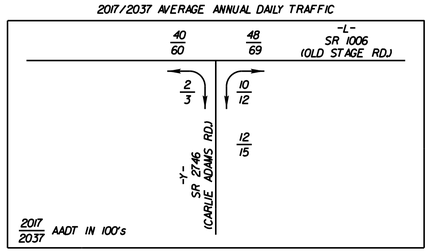
-L-

PI Sta 13+08.77	PI Sta 22+63.67
△ = 2° 28' 25.2" (LT)	△ = 0° 29' 07.8" (LT)
D = 0° 26' 58.4"	D = 0° 13' 45.1"
L = 550.25'	L = 211.84'
T = 275.17'	T = 105.92'
R = 12,745.00'	R = 25,000.00'
SE = SEE PLANS	SE = SEE PLANS
RO = SEE PLANS	RO = SEE PLANS

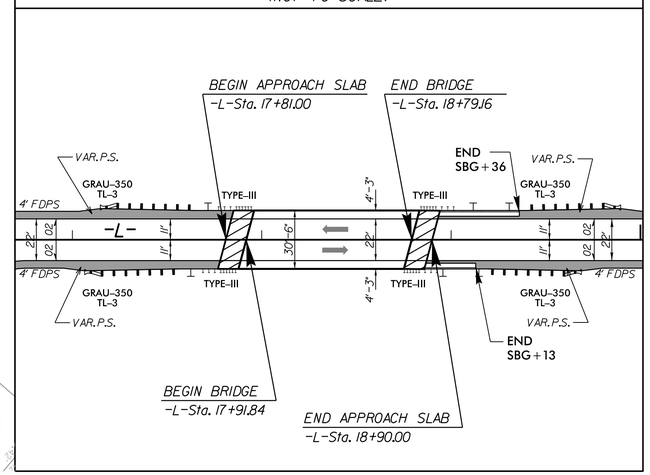
-Y-

PI Sta 14+20.71	PI Sta 14+99.64
△ = 3° 18' 36.0" (LT)	△ = 3° 59' 56.3" (LT)
D = 2° 53' 37.4"	D = 9° 11' 34.7"
L = 114.39'	L = 43.50'
T = 57.21'	T = 21.76'
R = 1,980.00'	R = 623.26'

2017/2037 AVERAGE ANNUAL DAILY TRAFFIC



PAVEMENT-BRIDGE RELATIONSHIP SKETCH
(NOT TO SCALE)



END BENT EXCAVATION SEE STRUCTURE PLANS (STRUCTURE PAY ITEM)

FOR -L- PROFILE, SEE SHEET 5

FOR -Y- PROFILE, SEE SHEET 5

PROPOSED PAVED SHOULDER

ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE NOTED

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-18

1/3/2017
I:\Projects\B4655\RDY_PSH\B4655_RDY_PSH_04.dgn
USER: Lewis