PROJECT REFERENCE NO.	SHEET NO.
B-4461	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 020111 ENGINEER NINA K. BOAYUE
DocuSigned by: 8/13/2016
AFFIX PROFESSIONAL SEAL

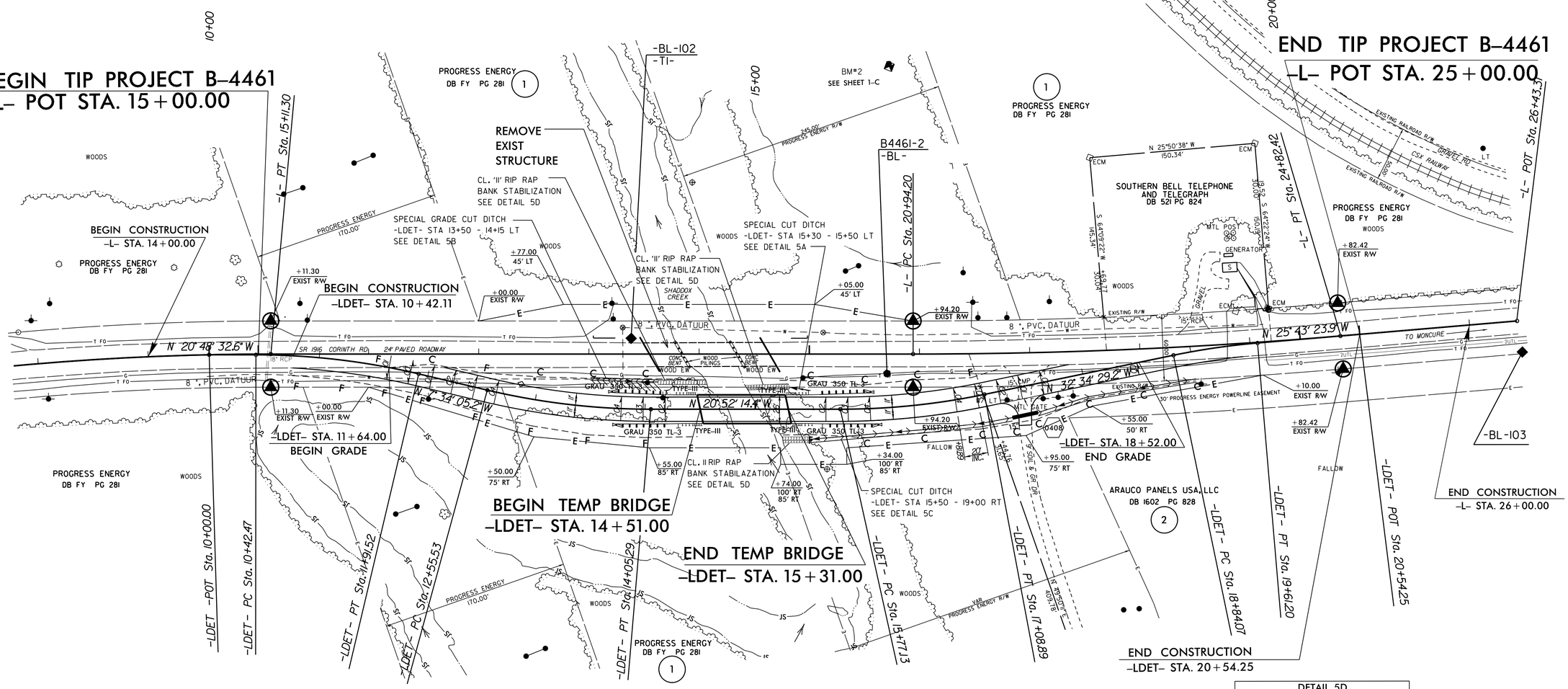
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 12786 ENGINEER STEVEN M. BONDER
DocuSigned by: 8/13/2016
Steven M. Bonder, P.E.
AFFIX PROFESSIONAL SEAL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/CORS96

-L-	
PI Sta 13+43.59 △ = 7° 33' 27.0" (RT) D = 2° 15' 00.0" L = 335.89' T = 168.19' R = 2,546.48'	PI Sta 22+88.43 △ = 4° 51' 09.5" (LT) D = 1° 15' 00.0" L = 388.21' T = 194.22' R = 4,583.66'

-LDET- V=45 mph			
PI Sta 11+17.33 △ = 13° 14' 27.4" (RT) D = 8° 52' 59.0" L = 149.06' T = 74.86' R = 645.00' SE = 0.04 R0 = 80'	PI Sta 13+30.75 △ = 13° 18' 09.2" (LT) D = 8° 52' 59.0" L = 149.75' T = 75.21' R = 645.00' SE = 0.04 R0 = 80'	PI Sta 16+43.24 △ = 11° 42' 14.8" (LT) D = 8° 52' 59.0" L = 131.76' T = 66.11' R = 645.00' SE = 0.04 R0 = 80'	PI Sta 19+22.68 △ = 6° 51' 05.3" (RT) D = 8° 52' 59.0" L = 77.13' T = 38.61' R = 645.00' SE = 0.04 R0 = 80'



DETAIL 5A
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 2:1, D, 2:1 or Flatter, Front Ditch Slope, Min. D=1.0 Ft.
FROM -LDET- STA. 15+30 TO STA. 15+50 LT

DETAIL 5B
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 2:1, D, 4:1 or Flatter, Front Ditch Slope, Min. D=1.0 Ft.
FROM -LDET- STA. 13+50 TO 14+15 LT

DETAIL 5C
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground, 2:1, D, 2:1 or Flatter, Front Ditch Slope, Min. D=1.0Ft.
FROM -LDET- STA. 15+50 TO 19+00 RT

DETAIL 5D
RIP RAP AT EMBANKMENT
(Not to Scale)
10' min., 1.0' min., 2', GEOTEXTILE, KEY IN RIPRAP 1.5' BELOW STREAM BED
Type of Liner = 50 TONS,CL II Rip-Rap
Geotextile = 30 sy
-LDET- STA. 14+10 to STA 14+55 LT
-LDET- STA. 14+90 to STA 15+30 LT
-LDET- STA. 15+25 to STA 15+50 RT

SEE SHEET 6 FOR -LDET- PROFILE

REVISIONS

8/17/99

22-MAR-2016 09:28
R:\Roadway\Proj\B4461_Rdy_psh_Ldet.dgn
$$$$USERNAME$$$$