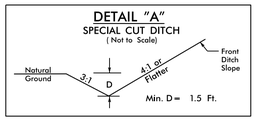
PROJECT REFERENCE NO.	SHEET NO.
U-3465	16
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
9/23/2014 SEAL 016378 NORTH CAROLINA PROFESSIONAL ENGINEER REKHA V. PATEL
DocuSigned by: Rekha V. Patel

HYDRAULICS ENGINEER
9/25/2014 SEAL 020870 NORTH CAROLINA PROFESSIONAL ENGINEER MARC T. SHOWN
DocuSigned by: Marc Shown

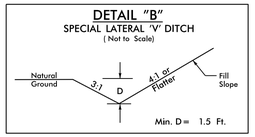
REVISIONS

DETAIL "A"
SPECIAL CUT DITCH
(Not to Scale)



-Y7- STA. 11+25 (RT.) TO -Y7- STA. 12+25 (RT.)

DETAIL "B"
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

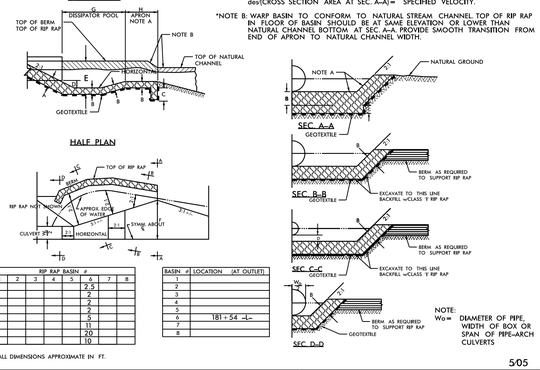


-L- STA. 180+50 (RT.) TO -L- STA. 183+50 (RT.)
-Y7- STA. 12+50 (LT.) TO -Y7- STA. 13+25 (LT.)

DETAIL "L"
RIP-RAPPED ENERGY DISSIPATOR BASIN

*NOTE A: IF EXIT VELOCITY OF BASIN IS SPECIFIED, EXTEND BASIN AS REQUIRED TO OBTAIN SUFFICIENT CROSS SECTIONAL AREA AT SECTION A-A SUCH THAT Q des/CROSS SECTION AREA AT SEC. A-A= SPECIFIED VELOCITY.

*NOTE B: WARP BASIN TO CONFORM TO NATURAL STREAM CHANNEL TOP OF RIP RAP IN FLOOR OF BASIN SHOULD BE AT SAME ELEVATION OR LOWER THAN NATURAL CHANNEL BOTTOM AT SEC. A-A. PROVIDE SMOOTH TRANSITION FROM END OF APRON TO NATURAL CHANNEL WIDTH.



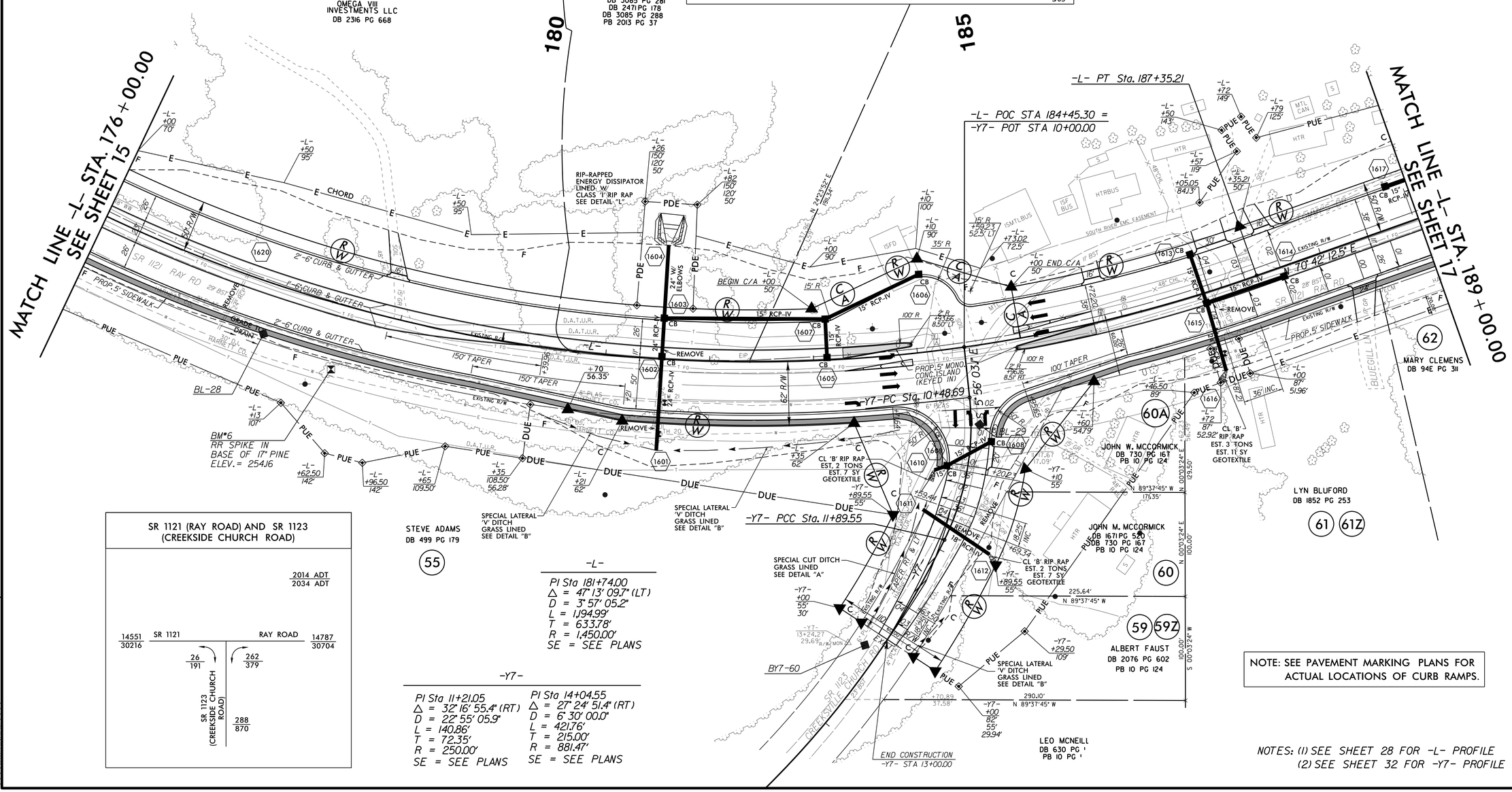
DIM.	RIP RAP BASIN # 1	2	3	4	5	6	7	8
A						2.5		
B						2		
C						2		
D						2		
E						5		
F						11		
G						20		
H						10		

BASIN #	LOCATION (AT OUTLET)
1	
2	
3	
4	
5	
6	181+54 -L-
7	
8	

*ALL DIMENSIONS APPROXIMATE IN FT.

505

NAD 83/95



SR 1121 (RAY ROAD) AND SR 1123 (CREEKSIDE CHURCH ROAD)

-L-

PI Sta 181+74.00
Δ = 47° 13' 09.7" (LT)
D = 3° 57' 05.2"
L = 1,194.99'
T = 633.78'
R = 1,450.00'
SE = SEE PLANS

-Y7-

PI Sta 11+21.05
Δ = 32° 16' 55.4" (RT)
D = 22° 55' 05.9"
L = 140.86'
T = 72.35'
R = 250.00'
SE = SEE PLANS

PI Sta 14+04.55
Δ = 27° 24' 51.4" (RT)
D = 6° 30' 00.0"
L = 421.76'
T = 215.00'
R = 881.47'
SE = SEE PLANS

NOTE: SEE PAVEMENT MARKING PLANS FOR ACTUAL LOCATIONS OF CURB RAMPS.

NOTES: (1) SEE SHEET 28 FOR -L- PROFILE
(2) SEE SHEET 32 FOR -Y7- PROFILE

22-SEP-2014 08:37
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$$$$USERNAME$$$$