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5/14/99

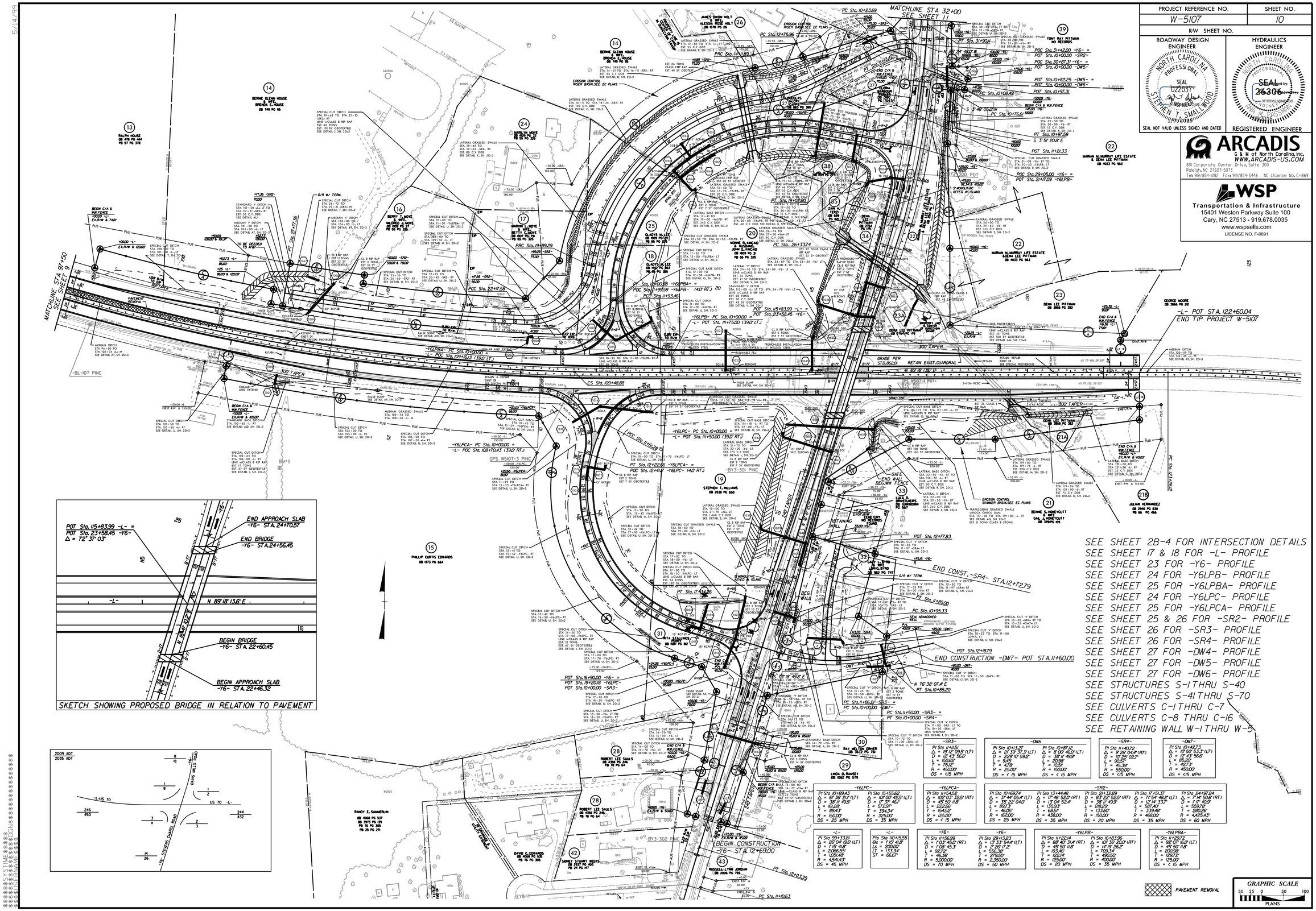
PROJECT REFERENCE NO.	SHEET NO.
W-5107	10
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 022031 ENGINEER STEPHEN T. SMALLWOOD
5/19/2009
SEAL NOT VALID UNLESS SIGNED AND DATED

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26306 ENGINEER
DocuSigned by: 3F3D0E2184A4ED...
5/19/2009
REGISTERED ENGINEER

ARCADIS
C & M of North Carolina, Inc.
WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
Raleigh, NC 27607-5073
Tel: 919/854-1282 Fax: 919/854-5448 NC License No. C-1869

WSP
Transportation & Infrastructure
15401 Weston Parkway Suite 100
Cary, NC 27513 - 919.678.0035
www.wspsells.com
LICENSE NO. F-0891



SEE SHEET 2B-4 FOR INTERSECTION DETAILS
SEE SHEET 17 & 18 FOR -L- PROFILE
SEE SHEET 23 FOR -Y6- PROFILE
SEE SHEET 24 FOR -Y6LPB- PROFILE
SEE SHEET 25 FOR -Y6LPBA- PROFILE
SEE SHEET 24 FOR -Y6LPC- PROFILE
SEE SHEET 25 FOR -Y6LPCA- PROFILE
SEE SHEET 25 & 26 FOR -SR2- PROFILE
SEE SHEET 26 FOR -SR3- PROFILE
SEE SHEET 26 FOR -SR4- PROFILE
SEE SHEET 27 FOR -DW4- PROFILE
SEE SHEET 27 FOR -DW5- PROFILE
SEE SHEET 27 FOR -DW6- PROFILE
SEE STRUCTURES S-1 THRU S-40
SEE STRUCTURES S-41 THRU S-70
SEE CULVERTS C-1 THRU C-7
SEE CULVERTS C-8 THRU C-16
SEE RETAINING WALL W-1 THRU W-5

-SR3-

PI Sta 11+11.51	
Δ = 13° 12' 29.5" (LT)	
D = 12° 43' 56.6"	
L = 150.82'	
T = 76.12'	
R = 450.00'	
DS = < 15 MPH	

-DW6

PI Sta 10+13.27	PI Sta 10+87.12
Δ = 21° 39' 37.3" (LT)	Δ = 9° 30' 46.2" (LT)
D = 229° 10' 59.2"	D = 38° 11' 49.9"
L = 9.45'	L = 20.98'
T = 4.78'	T = 10.51'
R = 25.00'	R = 150.00'
DS = < 15 MPH	DS = < 15 MPH

-SR4-

PI Sta 11+40.72	
Δ = 9° 26' 04.4" (RT)	
D = 12° 43' 56.6"	
L = 90.51'	
T = 45.39'	
R = 450.00'	
DS = < 15 MPH	

-DW7-

PI Sta 10+42.73	
Δ = 12° 50' 15.5" (LT)	
D = 12° 43' 56.6"	
L = 86.20'	
T = 43.27'	
R = 450.00'	
DS = < 15 MPH	

-Y6LPC-

PI Sta 10+89.47	PI Sta 15+55.62
Δ = 62° 20' 21.5" (LT)	Δ = 10° 05' 42.5" (LT)
D = 38° 11' 49.9"	D = 17° 37' 46.1"
L = 81.29'	L = 572.28'
T = 89.43'	T = 394.34'
R = 150.00'	R = 325.00'
DS = 25 MPH	DS = 35 MPH

-Y6LPCA-

PI Sta 11+54.52	
Δ = 102° 03' 32.5" (RT)	
D = 45° 50' 11.8"	
L = 222.66'	
T = 154.52'	
R = 125.00'	
DS = < 15 MPH	

-SR2-

PI Sta 10+69.74	PI Sta 13+44.48	PI Sta 21+32.89	PI Sta 24+97.84
Δ = 37° 44' 05.4" (LT)	Δ = 17° 46' 52.2" (RT)	Δ = 83° 22' 52.5" (RT)	Δ = 7° 14' 50.6" (RT)
D = 35° 22' 04.7"	D = 13° 04' 52.4"	D = 38° 11' 49.9"	D = 11° 40.9"
L = 89.7'	L = 135.93'	L = 218.29'	L = 559.71'
T = 46.05'	T = 68.3'	T = 133.60'	T = 280.26'
R = 162.00'	R = 438.00'	R = 150.00'	R = 4425.43'
DS = 25 MPH	DS = 35 MPH	DS = 20 MPH	DS = 35 MPH

-L-

PI Sta 99+33.81
Δ = 26° 04' 59.6" (LT)
D = 7° 15' 41.8"
L = 2,066.55'
T = 1,051.46'
R = 4,541.43'
DS = 45 MPH

-L-

PI Sta 110+15.55
θs = 1° 15' 41.8"
Ls = 200.00'
LT = 133.34'
ST = 66.67'

-Y6-

PI Sta 11+56.99	PI Sta 29+13.23
Δ = 1° 03' 45.2" (RT)	Δ = 13° 33' 54.4" (LT)
D = 1° 08' 45.3"	D = 2° 26' 17.2"
L = 92.7'	L = 566.38'
T = 46.36'	T = 279.50'
R = 5,000.00'	R = 2,350.00'
DS = 70 MPH	DS = 50 MPH

-Y6LPB-

PI Sta 11+22.14	PI Sta 16+83.96
Δ = 88° 40' 31.4" (RT)	Δ = 10° 36' 20.0" (RT)
D = 45° 50' 11.8"	D = 14° 19' 26.2"
L = 193.46'	L = 709.34'
T = 122.94'	T = 490.50'
R = 125.00'	R = 400.00'
DS = 20 MPH	DS = 35 MPH

-Y6LPBA-

PI Sta 11+29.72
Δ = 92° 07' 16.0" (LT)
D = 45° 50' 11.8"
L = 200.98'
T = 129.72'
R = 125.00'
DS = < 15 MPH