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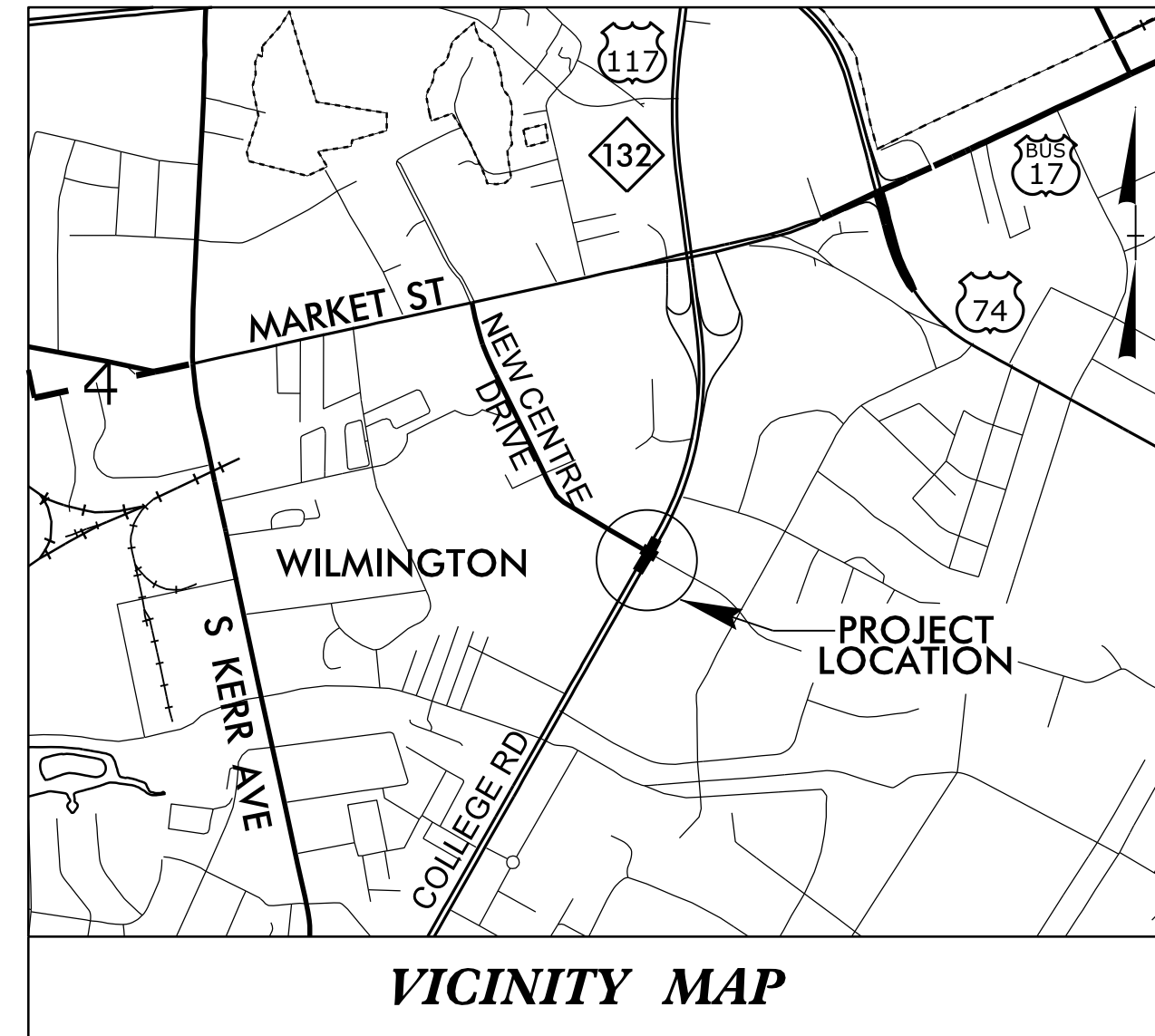
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09\_08/19

**TIP PROJECT: W-5601BB**

**CONTRACT: C203888**

See Sheet 1C For Survey Control Sheet



100% PLANS - MAY 10, 2016

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**NEW HANOVER COUNTY**

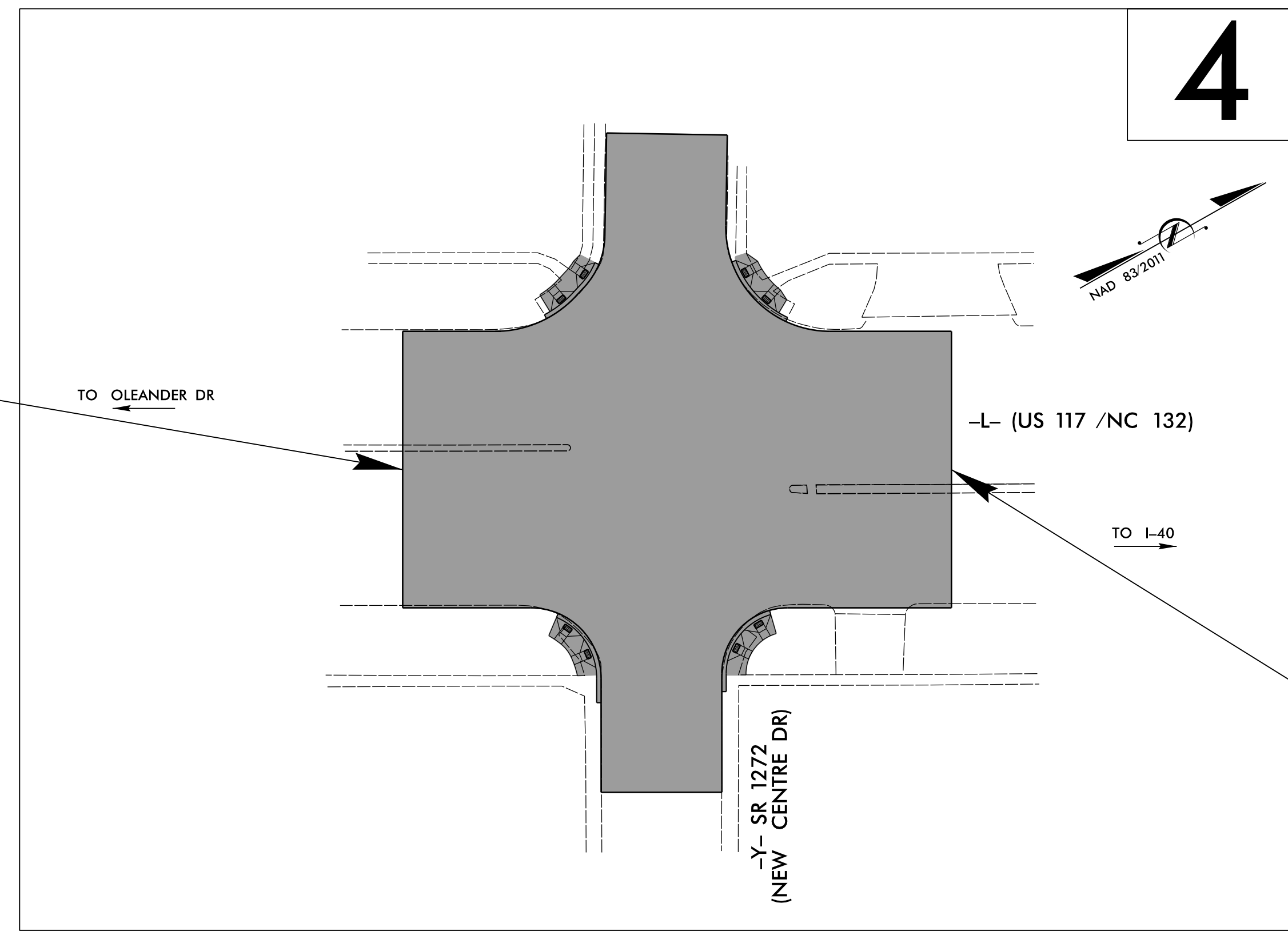
**LOCATION: US 117 /NC 132 NB (COLLEGE RD.) MP 5.992 TO MP 6.256  
& US 117 /NC 132 SB (COLLEGE RD.) MP 9.301 TO MP 9.348  
IN THE CITY OF WILMINGTON**

**TYPE OF WORK: DRAINAGE, PAVING, AND SIGNALS**

**PART II**

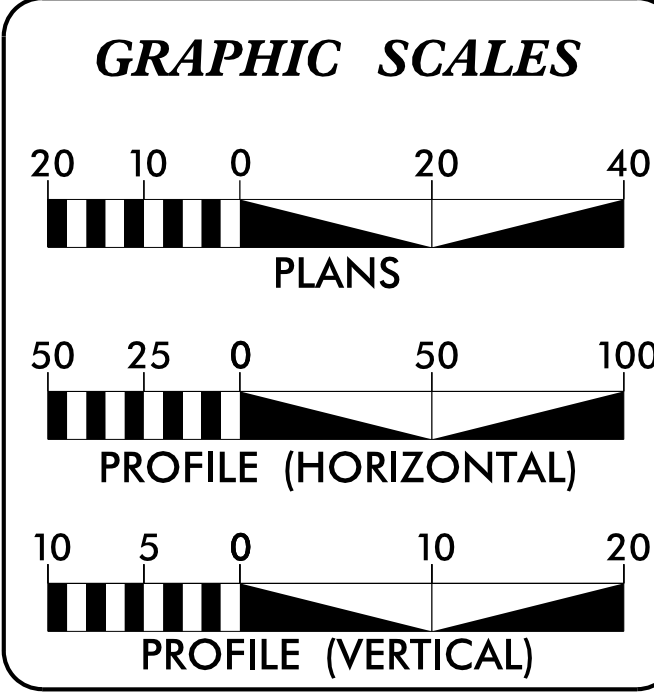
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5601BB	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.55	HSIP-0117(034)	PE	
45333.3.27	HSIP-0117(029)	CONST	

**BEGIN TIP PROJECT W-5601BB**  
-L- STA 482+00.00  
US 117 NB - MP 5.992  
US 117 SB - MP 9.348



**END TIP PROJECT W-5601BB**  
-L- STA 484+50.00  
US 117 NB - MP 6.256  
US 117 SB - MP 9.301

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**DESIGN DATA**

ADT 2013 =	51,000
V =	50 MPH
DHV =	10 %
D =	55 %
T =	12 % *
* TTST = 8% DUAL = 4%	
FUNC CLASS =	URBAN ARTERIAL
STATEWIDE TIER	

**PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT W-5601BB = 0.047 MILES

TOTAL LENGTH OF TIP PROJECT W-5601BB = 0.047 MILES

Prepared for the North Carolina Department of Transportation in the office of:

PLANS PREPARED BY  
**PARSONS**  
2012 STANDARD SPECIFICATIONS

SUNGATE DESIGN GROUP, P.A.

**RIGHT OF WAY DATE:** DAVID L. WILVER, PE  
PROJECT ENGINEER

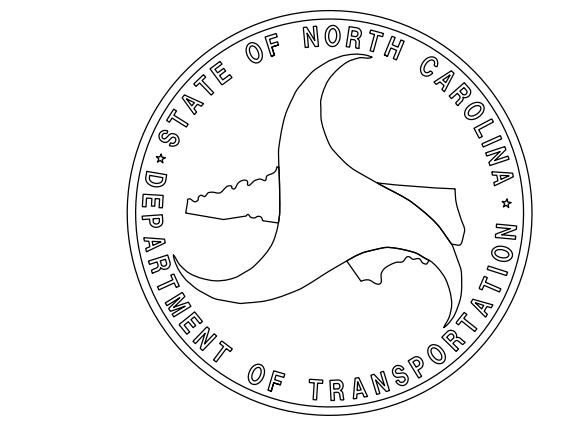
**LETTING DATE:** J. MATTHEW PICKENS, PE  
AUGUST 16, 2016 PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

SEAL 026971  
6/9/2016  
Signature: Joshua G. Dalton, P.E.

**ROADWAY DESIGN ENGINEER**

SEAL 37950  
6/9/2016  
Signature: Jason M. Pickens, P.E.

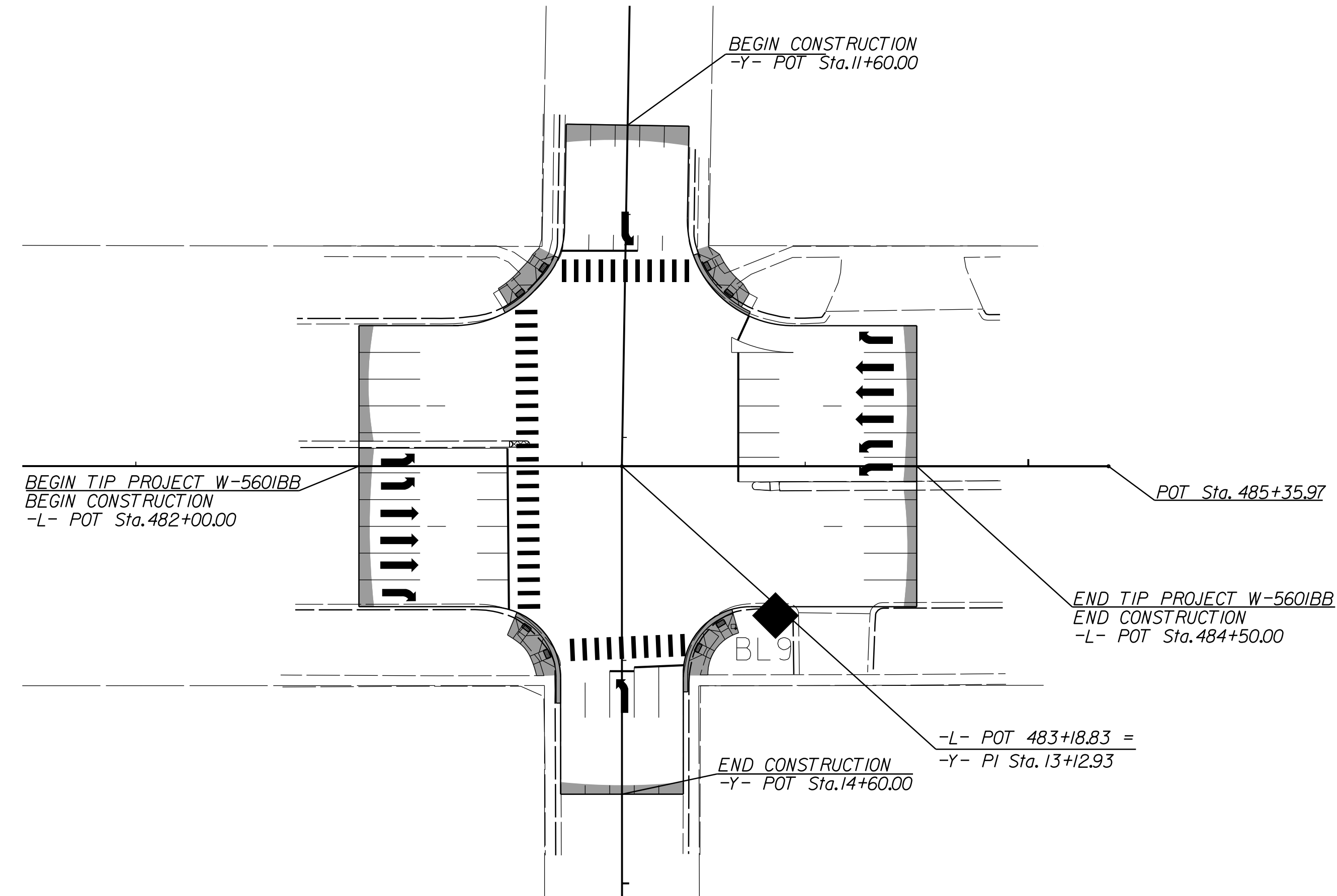


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7.622999

# SURVEY CONTROL SHEET W5601-BB

PROJECT REFERENCE NO.	SHEET NO.
W-5601BB	1C
Location and Surveys	



BL8

W5203-1

END CONSTRUCTION  
-Y- POT Sta.14+60.00  
-L- POT 483+18.83 =  
-Y- PI Sta.13+12.93

BL1 POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
U47184	GPS REBAR & CAP	172847.2240	2337348.2870	39.53	OUTSIDE PROJECT LIMITS	
U47185	GPS REBAR & CAP	173728.0040	2337795.8400	37.66	OUTSIDE PROJECT LIMITS	
BL1	TRV REBAR & CAP	174426.3300	2338111.0210	39.11	OUTSIDE PROJECT LIMITS	
BL2	TRV REBAR & CAP	175027.8370	2338452.7890	40.23	OUTSIDE PROJECT LIMITS	
BL3	TRV REBAR & CAP	175654.7280	2338809.5430	41.34	OUTSIDE PROJECT LIMITS	
BL4	TRV REBAR & CAP	176155.7930	2339084.5060	41.46	OUTSIDE PROJECT LIMITS	
BL5	TRV REBAR & CAP	176824.4750	2339463.0440	42.06	457.76.88	6.23 LT
BL6	TRV REBAR & CAP	177432.9570	2339895.7400	40.89	465.19.67	69.58 RT
BL7	TRV REBAR & CAP	177915.9160	2340166.5630	39.69	470.73.37	66.60 RT
BL8	TRV REBAR & CAP	178558.6930	2340532.1470	39.55	478.12.84	67.12 RT
BL9	TRV REBAR & CAP	179057.8590	2340815.3870	40.74	483.86.77	66.94 RT
W52031	GPS REBAR & CAP	179750.5280	2341086.9310	42.73	OUTSIDE PROJECT LIMITS	
W52032	GPS REBAR & CAP	180673.1550	2341308.5100	42.21	OUTSIDE PROJECT LIMITS	

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U4718-5"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF  
NORTHING: 173728.0040(ft) EASTING: 2337795.8400(ft)  
ELEVATION: 37.66(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0000299999

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U4718-5" TO -L- STATION 482+00.00 IS  
N 28°53'08" E 5939.47'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

25-MAY-2016 15:30  
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PLANS PREPARED BY:  
**PARSONS**  
 RALEIGH, NORTH CAROLINA, (919) 854-1345  
 NC LICENSE NO. F-0246  
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

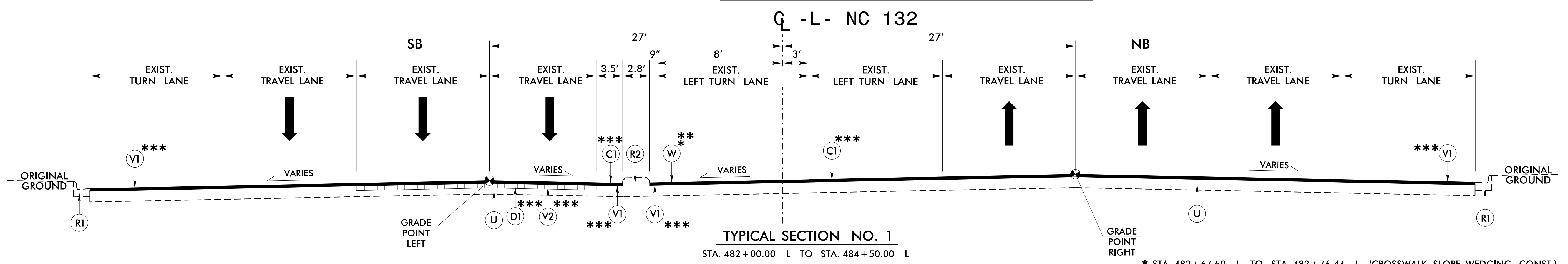
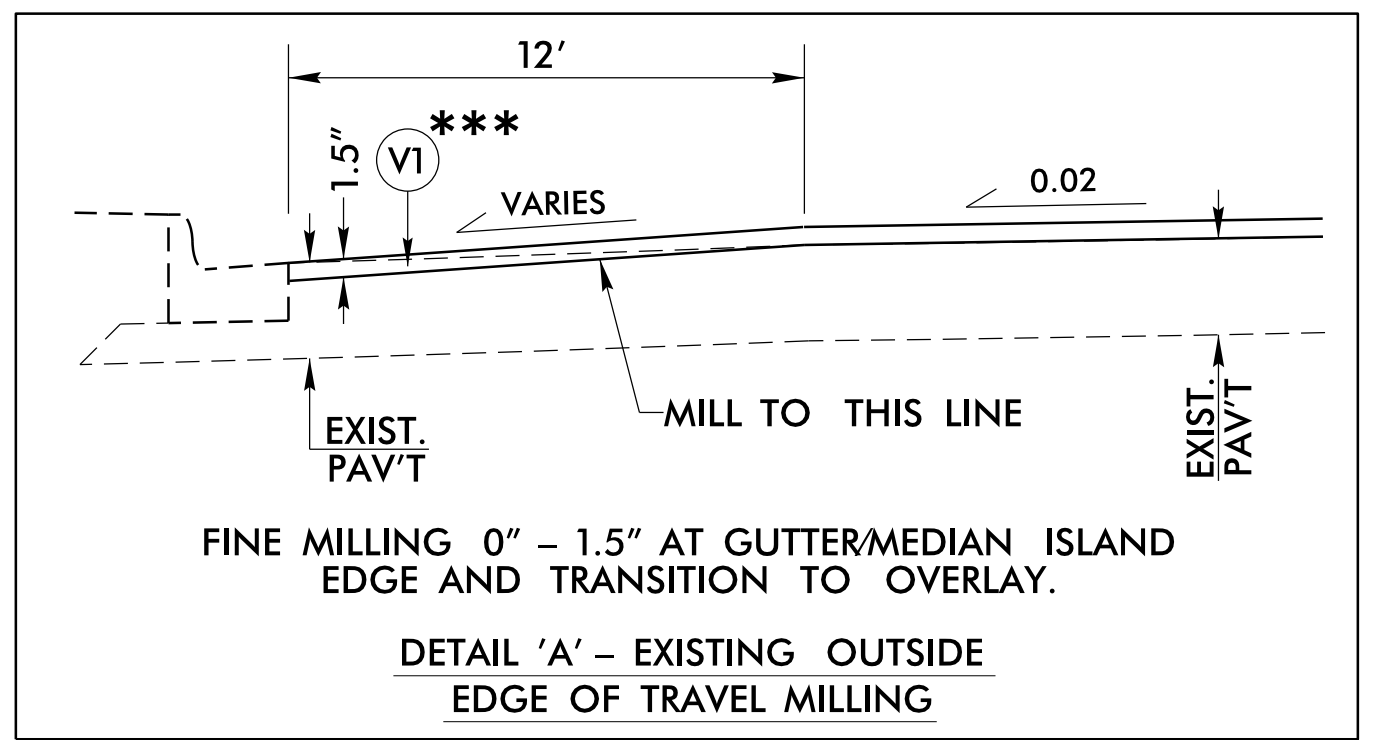
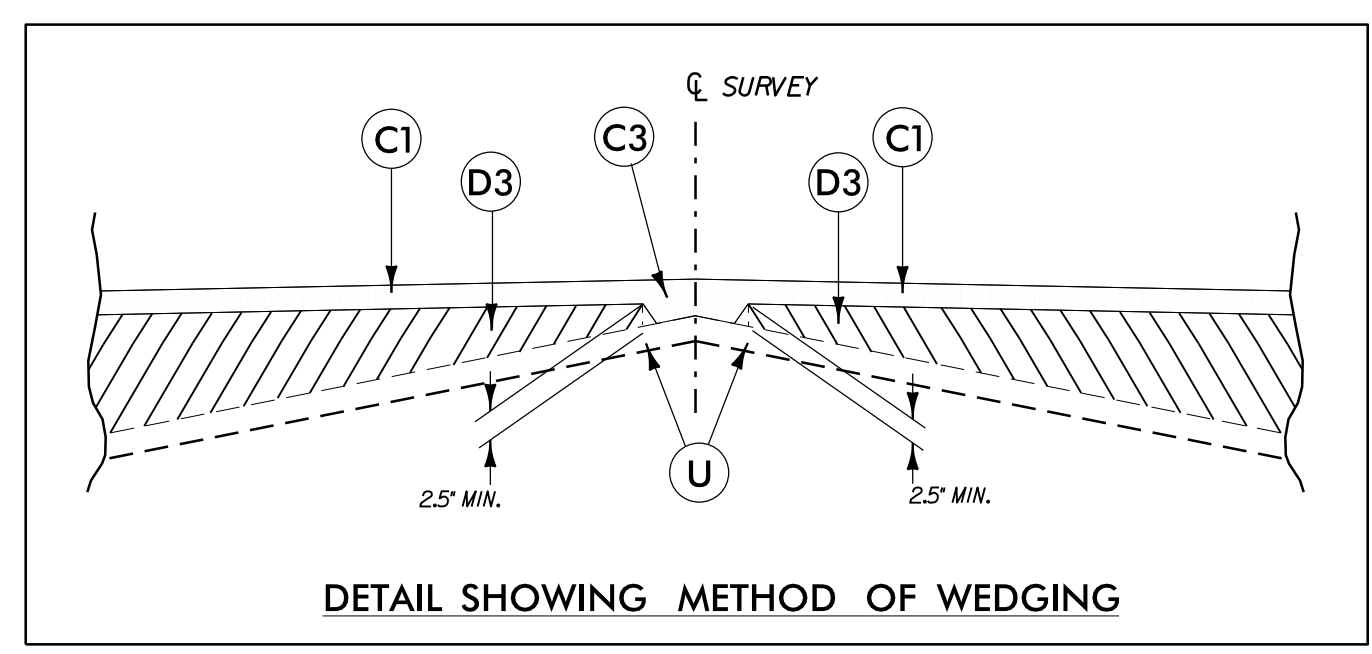
PROJECT REFERENCE NO. W-5601BB	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 37950 6/13/2016	PAVEMENT DESIGN ENGINEER SEAL 022896 6/14/2016

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

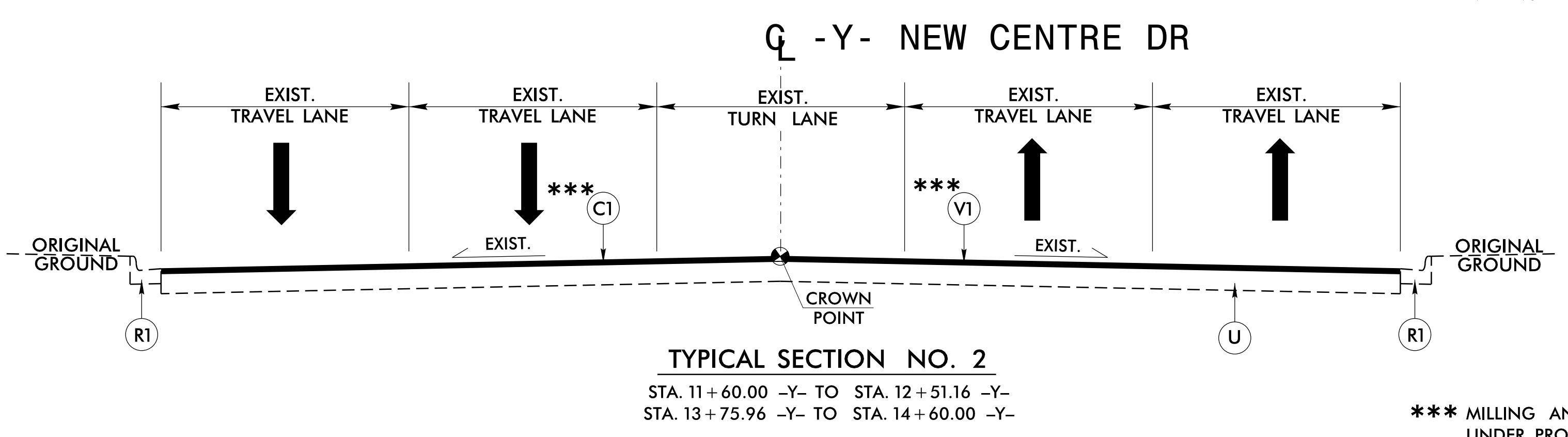
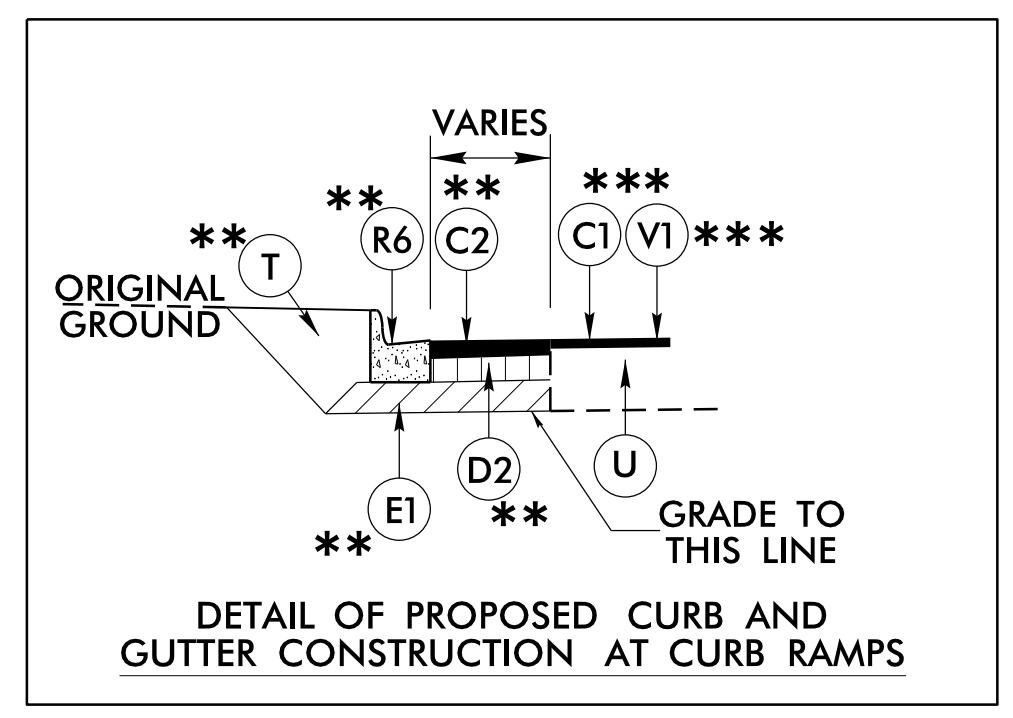
FINAL PAVEMENT SCHEDULE					
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
*** C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	** D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.	U	EXISTING PAVEMENT.
** C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	** E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	*** V1	FINE MILLING ASPHALT PAVEMENT, 0" - 1 1/2"
** C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1 1/2" IN DEPTH OR GREATER THAN 2" IN DEPTH.	R1	EXISTING 2'-6" CONCRETE CURB AND GUTTER	*** V2	MILLING ASPHALT PAVEMENT, 2 1/2" DEPTH
*** D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R2	EXISTING CONCRETE MONOLITHIC ISLAND	** W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL ON THIS SHEET).
** D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	** R6	2'-6" CONCRETE CURB AND GUTTER (USE AS NOTED ON PLANS)		

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

\*\* WORK TO BE PERFORMED UNDER W-5601BB  
 \*\*\* MILLING AND RESURFACING TO BE PERFORMED UNDER PROJECT 2017CPT.03.01.10651



\* STA. 482+67.50 -L- TO STA. 482+76.44 -L- (CROSSWALK SLOPE WEDGING CONST.)  
 \*\* WORK TO BE PERFORMED UNDER W-5601BB  
 \*\*\* MILLING AND RESURFACING TO BE PERFORMED UNDER PROJECT 2017CPT.03.01.10651



\*\*\* MILLING AND RESURFACING TO BE PERFORMED UNDER PROJECT 2017CPT.03.01.10651

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 \$\$\$\$DISTRIBUTED\$\$\$\$







**2015 AVERAGE DAILY TRAFFIC\***

NEW CENTRE DR -YI-	
14,170	
6,770	2,970
48,040	42,920
US 117 -L-	
3,700	2,380
10,510	
NEW CENTRE DR -YI-	

\*BASED ON NOON PEAK HOUR DATA

AGREE WILMINGTON LLC  
FARMINGTON MI  
DB 5542 PG 172  
MB 32 PG 32

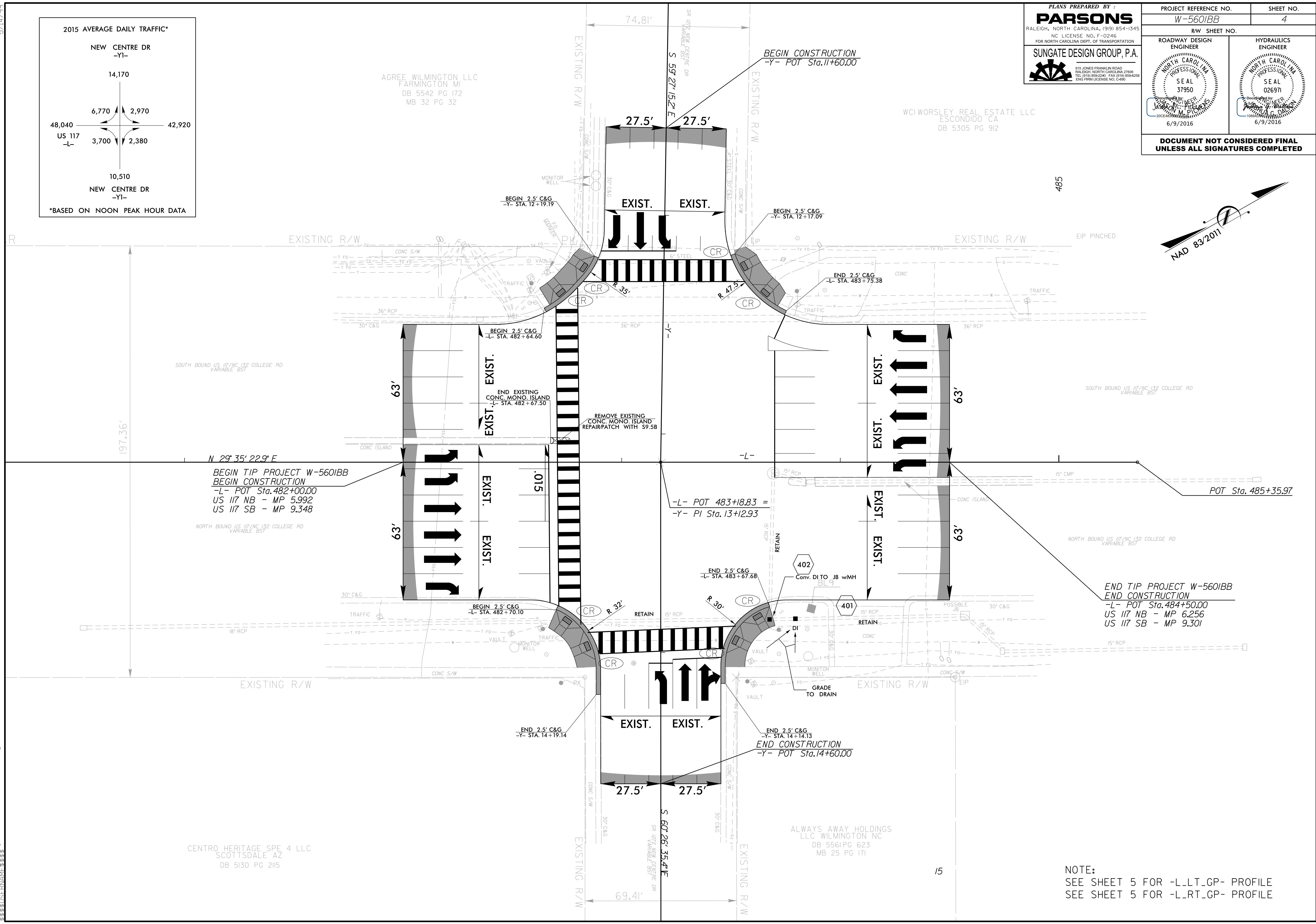
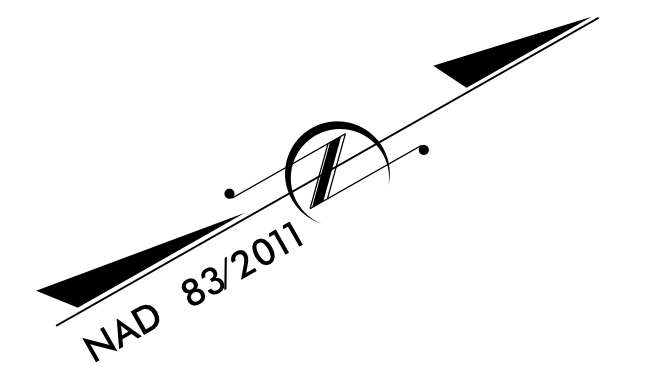
PLANS PREPARED BY:

**PARSONS**  
RALEIGH, NORTH CAROLINA, (919) 854-1345  
NC LICENSE NO. F-0246  
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

**SUNGATE DESIGN GROUP, P.A.**  
915 JONES FRANKLIN ROAD  
RALEIGH, NORTH CAROLINA 27606  
TEL (919) 859-2243 FAX (919) 859-0258  
ENG. FIRM LICENSE NO. C490

PROJECT REFERENCE NO. <b>W-560/BB</b>	SHEET NO. <b>4</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

WCI WORSLEY REAL ESTATE LLC  
ESCONDIDO CA  
DB 5305 PG 912



**BEGIN TIP PROJECT W-560/BB**  
**BEGIN CONSTRUCTION**  
-L- POT Sta. 482+00.00  
US 117 NB - MP 5.992  
US 117 SB - MP 9.348

**END TIP PROJECT W-560/BB**  
**END CONSTRUCTION**  
-L- POT Sta. 484+50.00  
US 117 NB - MP 6.256  
US 117 SB - MP 9.301

NOTE:  
SEE SHEET 5 FOR -L-LLT\_GP- PROFILE  
SEE SHEET 5 FOR -L-RT\_GP- PROFILE

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 W-560/BB-4

