

09_08/2019

12/29/2025 p:\a\aecom\ng-pw-bentley.com\AECOM_USA_North_Carolina\Documents\60488049-U-5302\CAD\70_NCDOT_TIP\Roadway\Proj\U5302_rdy_tsh.dgn mohammed.fallaha

TIP PROJECT: U-5302

CONTRACT: C204512

See Sheet 1A For Index of Sheets
See Sheet 1B-1 For Conventional Symbols

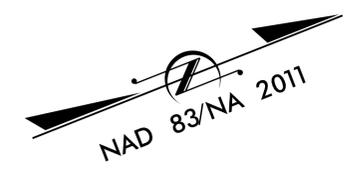
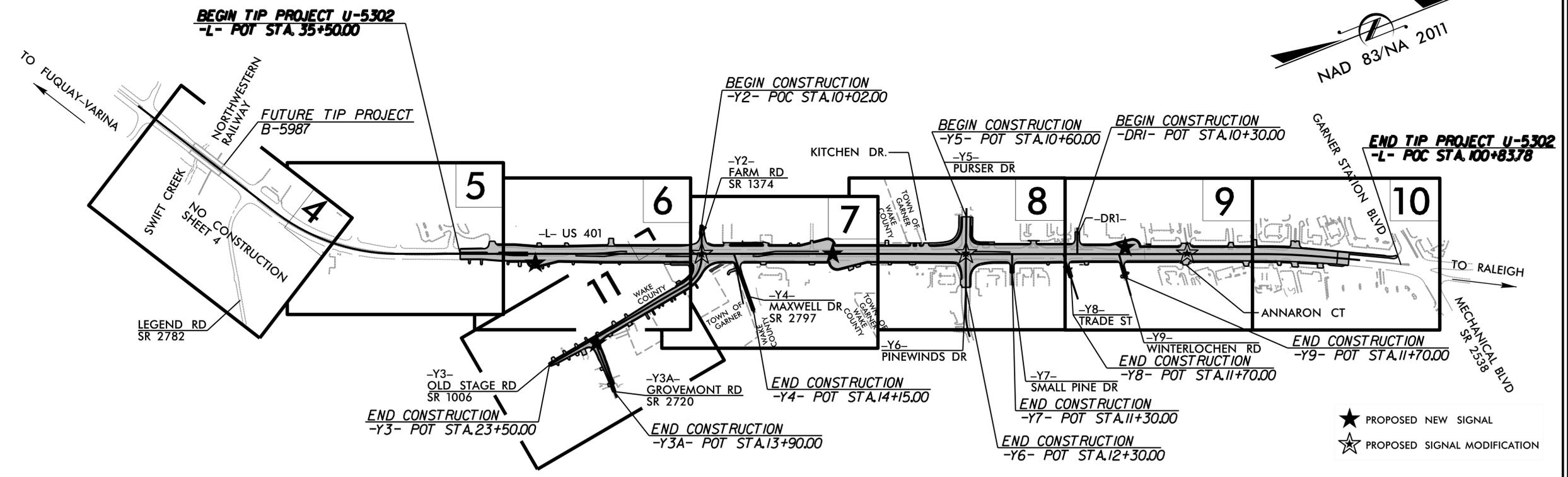
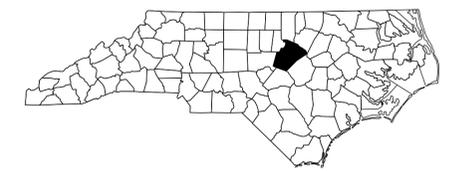
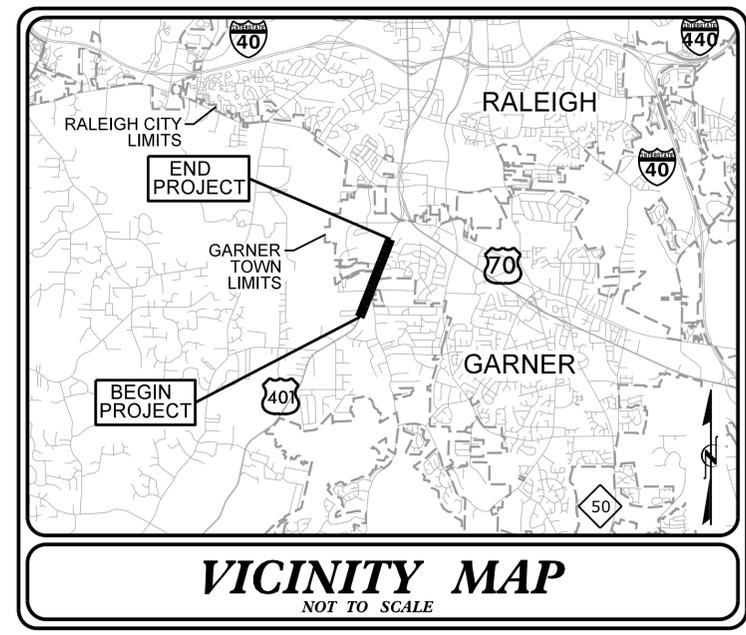
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE COUNTY

LOCATION: US 401 FROM SOUTH OF SR 1006 (OLD STAGE ROAD) TO SOUTH OF SR 2538 (MECHANICAL BOULEVARD/GARNER STATION BOULEVARD)

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

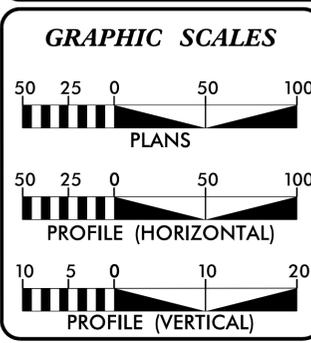
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5302	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48000.1.1	N/A	PE	
48000.2.1	N/A	ROW+UTILITIES	
48000.3.1	N/A	CONST	



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

- ★ PROPOSED NEW SIGNAL
- ☆ PROPOSED SIGNAL MODIFICATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2025 =	56,100
ADT 2045 =	70,700
K =	8 %
D =	60 %
T =	5 % *
V =	50 MPH
* TTST =	1% DUAL 4%
FUNC CLASS =	MAJOR ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5302 =	1.237 MILES
TOTAL LENGTH OF TIP PROJECT U-5302 =	1.237 MILES

Prepared in the Office of:

AECOM
2024 STANDARD SPECIFICATIONS

NC FIRM LICENSE No: F-0342
5438 Wade Park Boulevard, Suite 200
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

RIGHT OF WAY DATE:
DECEMBER 11, 2018

LETTING DATE:
MARCH 17, 2026

IAN BERDEAU, P.E.
PROJECT ENGINEER

MOHAMMED FALLAHA, P.E.
PROJECT DESIGN ENGINEER

JOHN W. BRAXTON Jr.
SENIOR PROJECT ENGINEER, NCDOT CONTACT

HYDRAULICS ENGINEER

DocuSigned by: *John Berdeau* 1/8/2026
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER

DocuSigned by: *John Berdeau* 1/8/2026
SIGNATURE: P.E.



STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete Monument (ECM)	□
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Existing Historic Property Boundary	HPB
Known Contamination Area: Soil	⊗-s-⊗-s-
Potential Contamination Area: Soil	⊗-s-⊗-s-
Known Contamination Area: Water	⊗-w-⊗-w-
Potential Contamination Area: Water	⊗-w-⊗-w-
Contaminated Site: Known or Potential	☠ ?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	⊙
Well	⊙
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	⊕
Building	⊞
School	⊞
Church	⊞
Dam	⊞

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	WLB
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	⬢
Secondary Horiz and Vert Control Point	⬢
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	⊕
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	⬢
Existing C/A Monument	▲
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	⊕
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage/Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----
VEGETATION:	
Single Tree	⊗
Single Shrub	⊗
Hedge	-----

Woods Line	-----
Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----
Storm Sewer	-----

UTILITIES:

* SUE - Subsurface Utility Engineering
LOS - Level of Service - A,B,C or D (Accuracy)

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊞
Power Transformer	⊞
U/G Power Cable Hand Hole	⊞
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	⊕
U/G Power Line (SUE - LOS B)*	-----
U/G Power Line (SUE - LOS C)*	-----
U/G Power Line (SUE - LOS D)*	-----
TELEPHONE:	
Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊞
Telephone Cell Tower	⊞
U/G Telephone Cable Hand Hole	⊞
U/G Telephone Test Hole (SUE - LOS A)*	⊕
U/G Telephone Cable (SUE - LOS B)*	-----
U/G Telephone Cable (SUE - LOS C)*	-----
U/G Telephone Cable (SUE - LOS D)*	-----
U/G Telephone Conduit (SUE - LOS B)*	-----
U/G Telephone Conduit (SUE - LOS C)*	-----
U/G Telephone Conduit (SUE - LOS D)*	-----
U/G Fiber Optics Cable (SUE - LOS B)*	-----
U/G Fiber Optics Cable (SUE - LOS C)*	-----
U/G Fiber Optics Cable (SUE - LOS D)*	-----

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	⊕
U/G Water Line (SUE - LOS B)*	-----
U/G Water Line (SUE - LOS C)*	-----
U/G Water Line (SUE - LOS D)*	-----
Above Ground Water Line	-----

TV:

TV Pedestal	⊞
TV Tower	⊗
U/G TV Cable Hand Hole	⊞
U/G TV Test Hole (SUE - LOS A)*	⊕
U/G TV Cable (SUE - LOS B)*	-----
U/G TV Cable (SUE - LOS C)*	-----
U/G TV Cable (SUE - LOS D)*	-----
U/G Fiber Optic Cable (SUE - LOS B)*	-----
U/G Fiber Optic Cable (SUE - LOS C)*	-----
U/G Fiber Optic Cable (SUE - LOS D)*	-----

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	⊕
U/G Gas Line (SUE - LOS B)*	-----
U/G Gas Line (SUE - LOS C)*	-----
U/G Gas Line (SUE - LOS D)*	-----
Above Ground Gas Line	-----

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Force Main Line Test Hole (SUE - LOS A)*	⊕
SS Force Main Line (SUE - LOS B)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

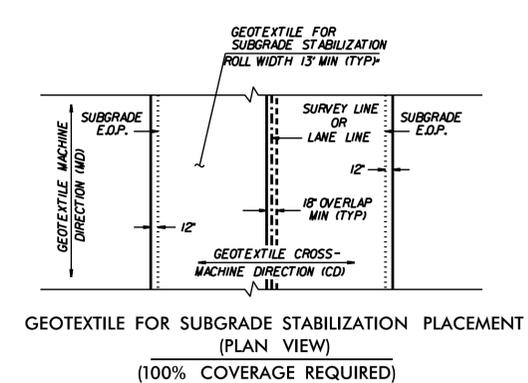
MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊞
Utility Unknown U/G Line (SUE - LOS B)*	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

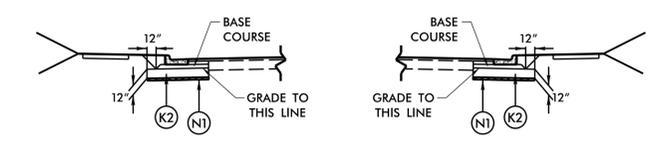
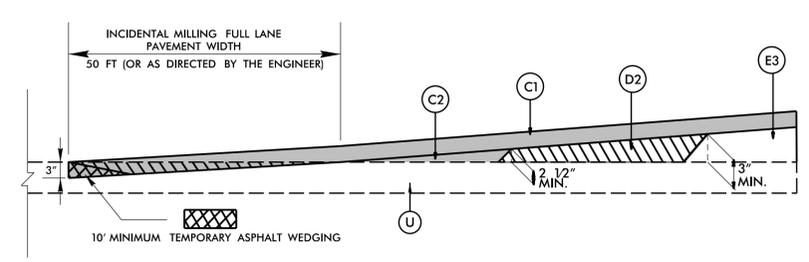
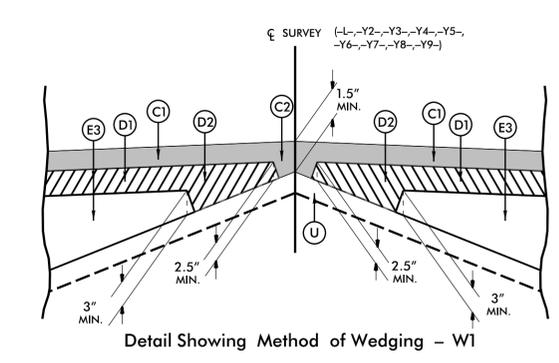
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 REVISIONS
 12/29/2025
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FINAL PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, 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.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
K2	CLASS IV SUBGRADE STABILIZATION
N1	GEOTEXTILE FOR SUBGRADE STABILIZATION
R1	1'-6" CONCRETE CURB AND GUTTER.
R2	2'-6" CONCRETE CURB AND GUTTER.
R3	5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED).
S	4" CONCRETE SIDEWALK.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	1-1/2" MILLING
W1	WEDGING DETAIL NO. 1

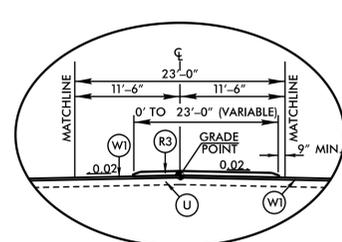
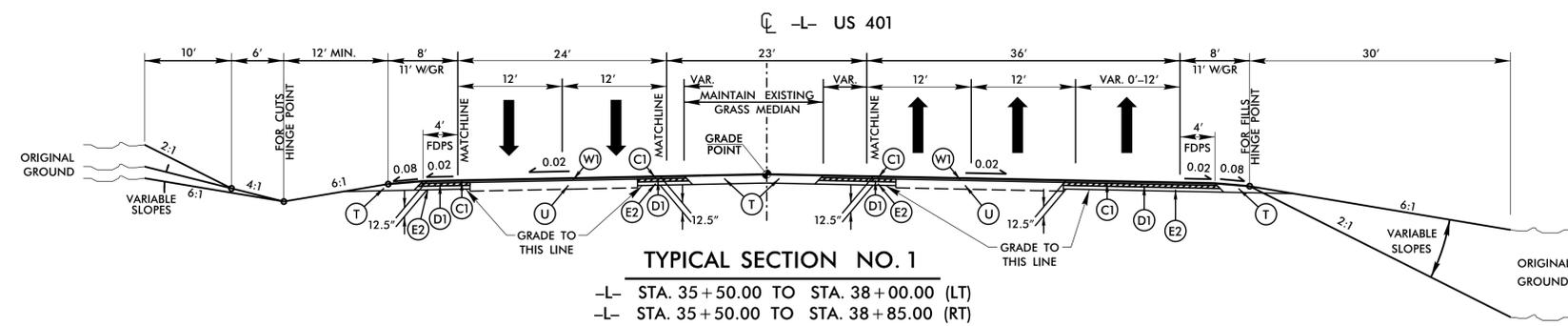
PAVEMENT EDGE SLOPES 1:1 UNLESS OTHERWISE NOTED



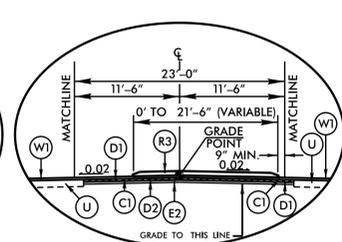
*INSTALL GEOTEXTILE FOR SUBGRADE STABILIZATION WITH MINIMUM ROLL WIDTH UNDER ROADWAY EDGES AND SHOULDERS ADJACENT TO FILL SLOPES



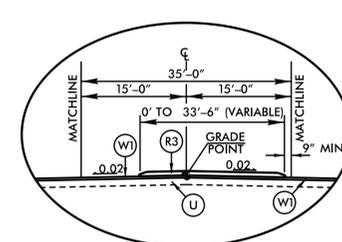
- USE IN CONJUNCTION WITH TYPICAL SECTIONS AS DIRECTED BY THE RESIDENT ENGINEER AND AT STATIONS:
- L- STA. 36+25.00 TO -L- STA. 43+75.00
 - L- STA. 48+25.00 TO -L- STA. 51+25.00 (LT)
 - L- STA. 54+25.00 TO -L- STA. 59+75.00
 - L- STA. 61+25.00 TO -L- STA. 71+25.00
 - L- STA. 72+25.00 TO -L- STA. 77+75.00
 - L- STA. 79+75.00 TO -L- STA. 81+25.00 (LT)
 - L- STA. 83+25.00 TO -L- STA. 91+25.00
 - L- STA. 93+75.00 TO -L- STA. 96+25.00
 - Y3- STA. 15+75.00 TO -Y3- STA. 23+00.00



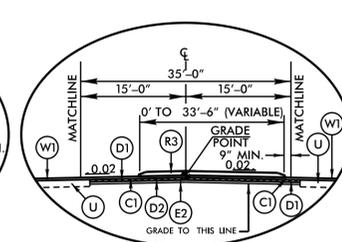
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2
 SEE PLAN SHEETS FOR LOCATIONS
 STA. 79+00.00 TO STA. 85+40.00
 STA. 86+40.00 TO STA. 93+06.00



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2
 SEE PLAN SHEETS FOR LOCATIONS
 STA. 40+21.00 TO STA. 43+50.00



USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2
 SEE PLAN SHEETS FOR LOCATIONS
 STA. 47+50.00 TO STA. 49+76.00
 STA. 67+25.00 TO STA. 71+13.00
 STA. 71+19.00 TO STA. 81+66.00
 STA. 73+70.00 TO STA. 76+00.00



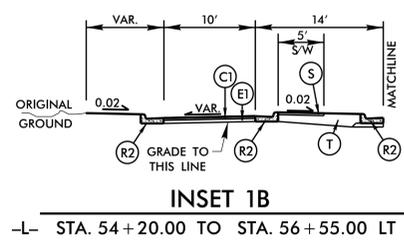
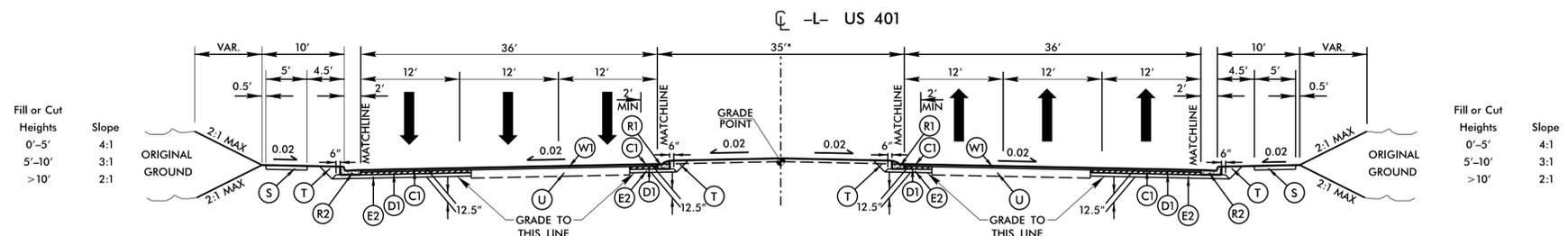
USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2
 SEE PLAN SHEETS FOR LOCATIONS
 STA. 47+09.00 TO STA. 51+62.00
 STA. 51+55.68 TO STA. 55+37.00
 STA. 53+22.00 TO STA. 81+66.00
 STA. 57+90.00 TO STA. 65+10.00
 STA. 62+30.00 TO STA. 69+68.00

PROJECT REFERENCE NO. U-5302	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER, NCDOT
Prepared in the Office of: 5438 Wood Park Road, Suite 200 Raleigh, NC 27603 (919) 854-6200 • (919) 854-6299 FAX	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

8/17/19

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PROJECT REFERENCE NO. U-5302	SHEET NO. 2A-2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER, NCDOT
DocuSigned by: <i>Jason Beal</i> 1/7/2026	DocuSigned by: <i>Shilai Zhang</i> 1/7/2026
Prepared in the Office of: 	
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TYPICAL SECTION NO. 2
 -L- STA. 38+00.00 TO STA. 93+90.00 (LT)
 -L- STA. 38+85.00 TO STA. 93+90.00 (RT)

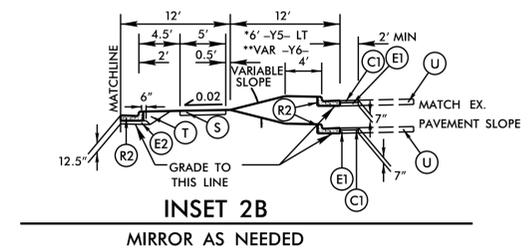
***23' MEDIAN**
 STA. 38+50.00 TO STA. 42+50.00

*** MEDIAN WIDENS FROM 23' TO 35'**
 STA. 42+50.00 TO STA. 46+60.00

***35' MEDIAN**
 STA. 46+60.00 TO STA. 72+00.00

*** MEDIAN NARROWS FROM 35' TO 23'**
 STA. 72+00.00 TO STA. 79+00.00

***23' MEDIAN**
 STA. 79+00.00 TO STA. 93+90.00



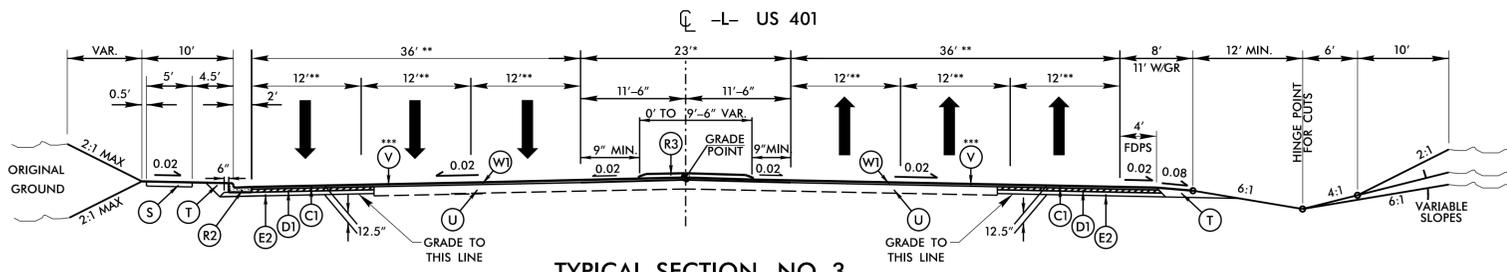
-L- STA. 50+05.00 RT TO -Y3- STA. 12+76.00 RT
 -L- STA. 68+00.00 LT TO -Y5- STA. 10+60.00 RT

*** -Y5- STA. 11+26.02 LT TO -L- STA. 72+20.00 LT**

**** -L- STA. 69+73.00 RT TO -Y6- STA. 11+76.00 RT**
 MAINTAIN EXISTING CURBLINE

C1	3" S9.5C
C2	VAR. S9.5C
D1	4" I19.0C
D2	VAR I19.0C
E1	4" B25.0C
E2	5 1/2" B25.0C
E3	VAR. B25.0C
R1	1'-6" C & G
R2	2'-6" C & G
R3	5" MCI
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXISTING PVMT.
V	1-1/2" MILLING
W1	WEDGING NO. 1

PAVEMENT EDGE SLOPES 1:1 UNLESS OTHERWISE NOTED



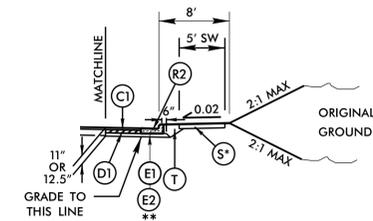
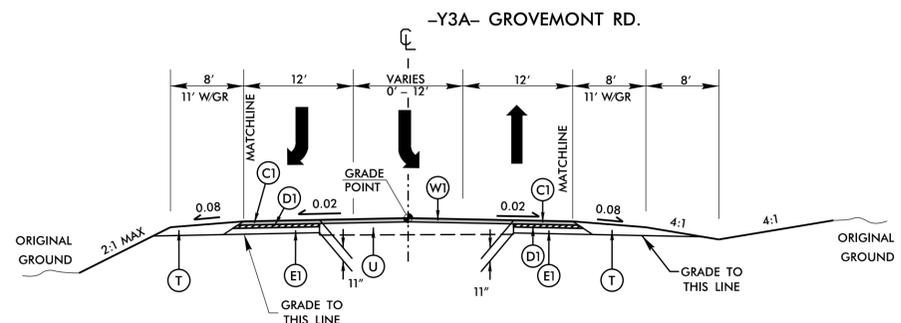
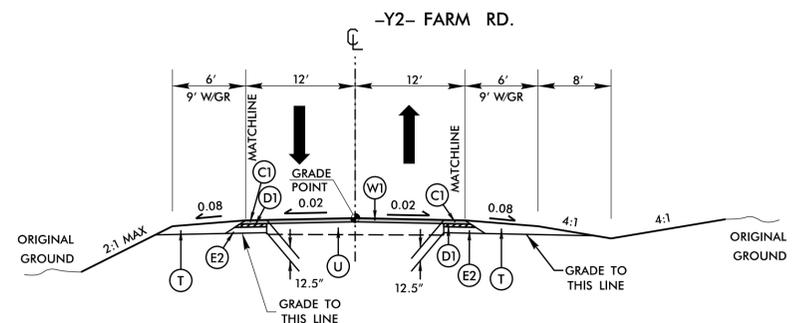
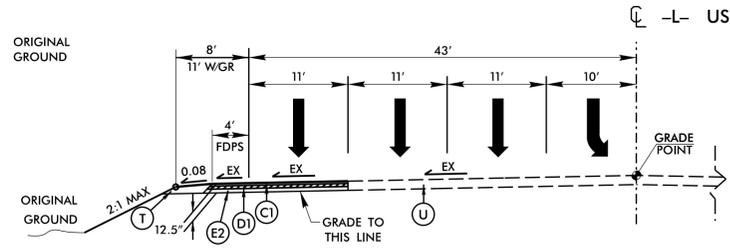
TYPICAL SECTION NO. 3
 -L- STA. 93+90.00 TO STA. 97+20.00

*** MEDIAN NARROWS FROM 23' TO 20'**
 STA. 93+90.00 TO STA. 96+40.00

NOTE: SEE PLAN SHEETS FOR MEDIAN ISLAND LOCATIONS

**** LANES NARROWS FROM 36' TO 30'**
 (12' TO 10' LANE TRANSITION)
 STA. 93+90.00 TO STA. 96+40.00

*****NOTE: INCLUDE 1.5" MILLING (V)**
 -L- STA. 96+40.00 TO 97+20.00



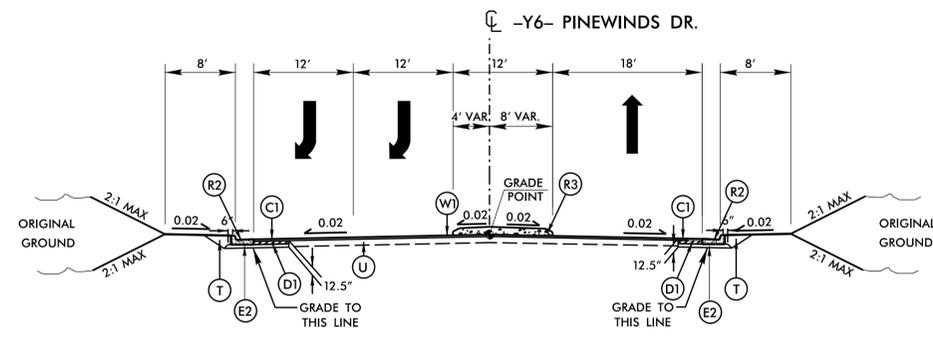
-Y2- STA. 10+55.73 TO STA. 11+46.63 (L/RT)
 * (NO SIDEWALK ON -Y2-)

-Y3A- STA. 10+24.28 TO STA. 13+20.00 (LT)
 ** (E1 ON -Y3A-)

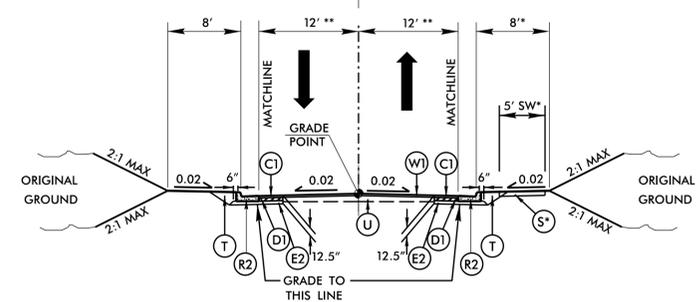
MIRROR AS NEEDED

SEE SHEETS 2B-1 & 2B-2 FOR MEDIAN OFFSETS

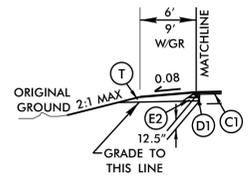
PROJECT REFERENCE NO. U-5302	SHEET NO. 2A-3
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER, NCDOT
	
DocuSigned by: <i>John Berron</i> 1/7/2026	DocuSigned by: <i>Shihai Zhang</i> 1/7/2026
Prepared in the Office of: AECOM	
NC STATE LICENSE No. P-0342 5438 Wood Park, Raleigh, NC 27612 (919) 854-6200 • (919) 854-6259 FAX	
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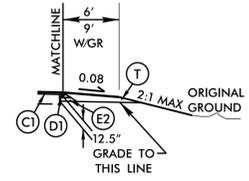
TYPICAL SECTION NO. 5
-Y6- STA. 10+61.25 TO STA. 12+30.00



TYPICAL SECTION NO. 6
-Y4- STA. 10+56.37 TO STA. 14+15.00
*(SIDEWALK ON RT -Y4-)
-Y7- STA. 10+53.50 TO STA. 11+30.00
-Y8- STA. 10+52.89 TO STA. 11+70.00
-DR1- STA. 10+30.00 TO STA. 11+23.57
**(LANE WIDTH = 14')



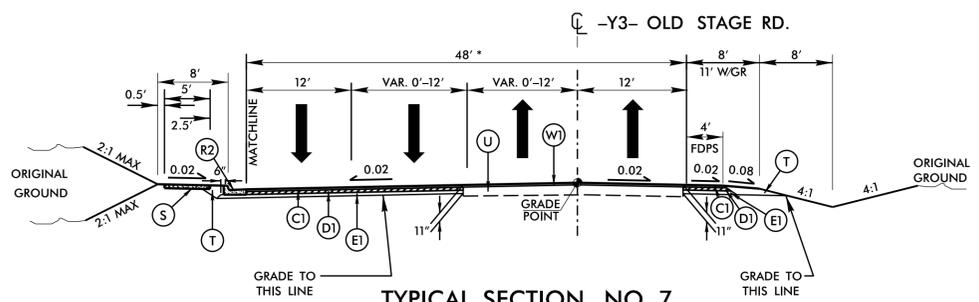
INSET D



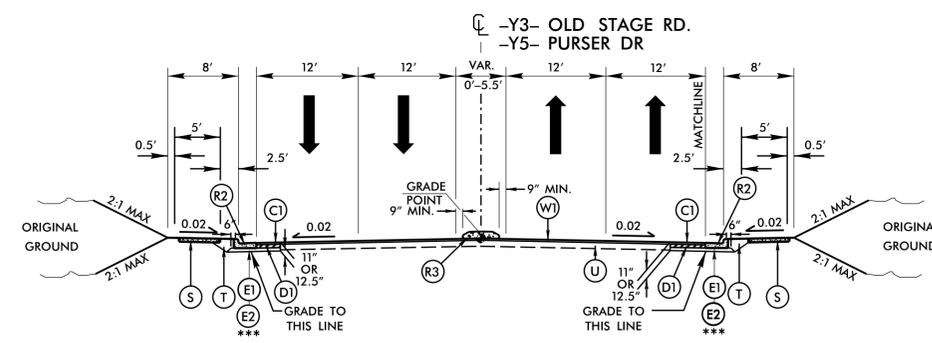
INSET E

-Y4- LT STA. 11+08.89 TO STA. 11+50.00
-Y8- LT STA. 11+13.38 TO STA. 11+70.00

-Y4- RT STA. 11+25.00 TO STA. 11+50.00
-Y8- RT STA. 10+82.09 TO STA. 11+70.00

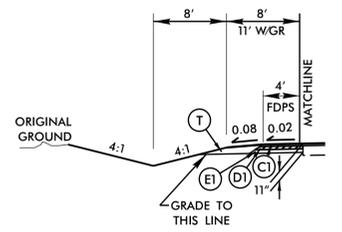


TYPICAL SECTION NO. 7
-Y3- STA. 14+50.00 TO STA. 23+50.00
* NARROWS FROM 48' TO 36' (3- 12' LANES)
STA. 14+50.00 TO STA. 17+70.00
* CONSTANT 36' (3- 12' LANES)
STA. 17+70.00 TO STA. 20+80.00
* NARROWS FROM 36' TO 20' (2- 10' LANES)
STA. 20+80.00 TO STA. 23+50.00
NOTE: SEE SHEET 11 FOR TAPER DETAILS
AND CENTERLINE LOCATIONS



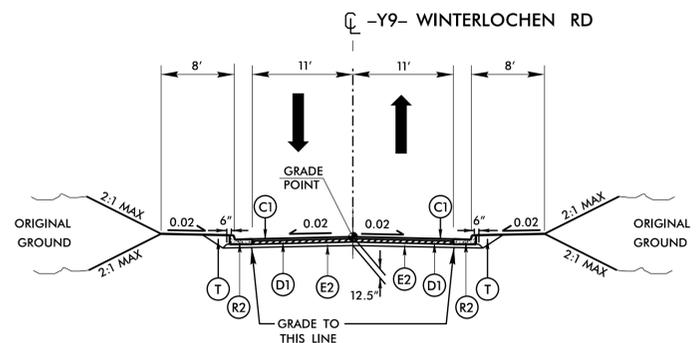
TYPICAL SECTION NO. 8
-Y3- STA. 10+69.72 TO STA. 14+50.00
-Y5- STA. 10+60.00 TO STA. 12+52.44

***NOTE: USE E1 ON -Y3-
USE E2 ON -Y5-

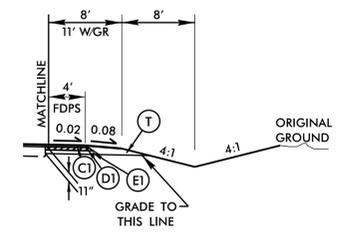


INSET F

-Y3- STA. 20+00.00 TO STA. 23+50.00



TYPICAL SECTION NO. 9
-Y9- STA. 10+52.89 TO STA. 11+70.00



INSET G

-Y3- RT STA. 13+42.50 TO STA. 14+50.00

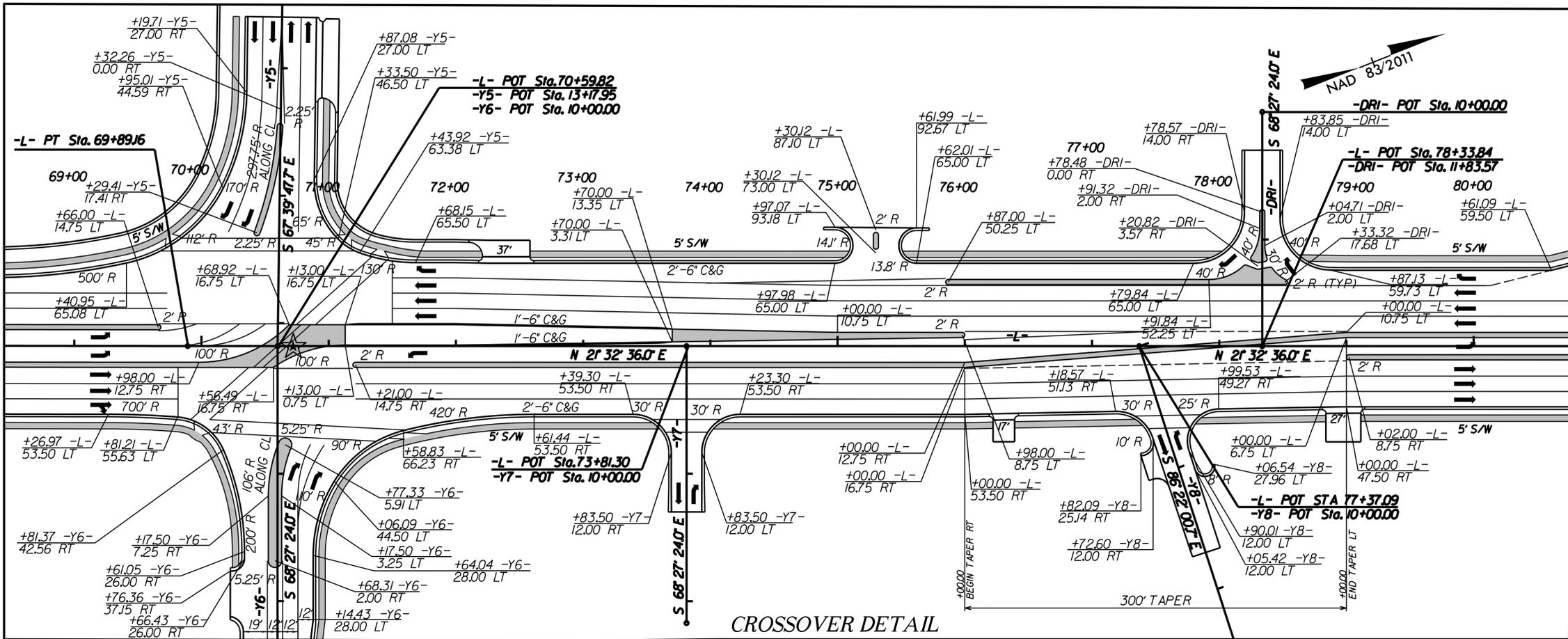
C1	3" S9.5C
C2	VAR. S9.5C
D1	4" I19.0C
D2	VAR I19.0C
E1	4" B25.0C
E2	5 1/2" B25.0C
E3	VAR. B25.0C
R1	1'-6" C & G
R2	2'-6" C & G
R3	5" MCI
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXISTING PVMT.
V	1-1/2" MILLING
W1	WEDGING NO. 1

PAVEMENT EDGE SLOPES
1:1 UNLESS OTHERWISE
NOTED

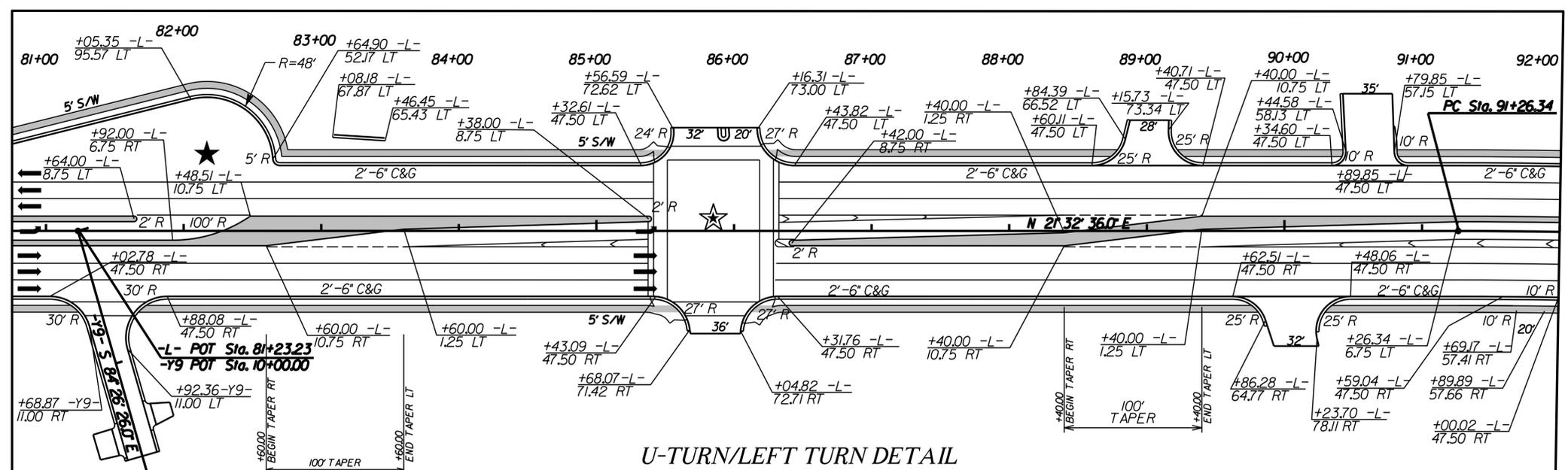
1/7/2026
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 8/17/19

MONOLITHIC CONCRETE ISLAND DETAILS

PROJECT REFERENCE NO. U-5302	SHEET NO. 2B-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
Prepared in the Office of: AECOM <small>NC FIRM LICENSE No. F-0342 5438 Wade Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6299 FAX</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



CROSSOVER DETAIL



U-TURN/LEFT TURN DETAIL



FOR HORIZONTAL GEOMETRY AND ADDITIONAL OFFSET DATA SEE SHEETS 4 THRU 11

FOR TRANSITION FROM 1'-6\"/>

- ★ MODIFIED SIGNAL
- ★ PROPOSED SIGNAL

REVISIONS
 12/29/2025
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 8/17/2019

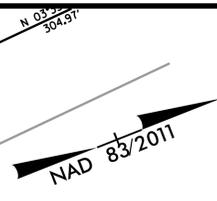
8/17/99

12/9/2025 10:00 AM C:\Users\pwbentley\Documents\60488049-U-5302-CAD\GIS\910-CAD\70-NCDDOT-TIP\Roadway\Proj\U5302-rdy.psh_02B-5.dgn
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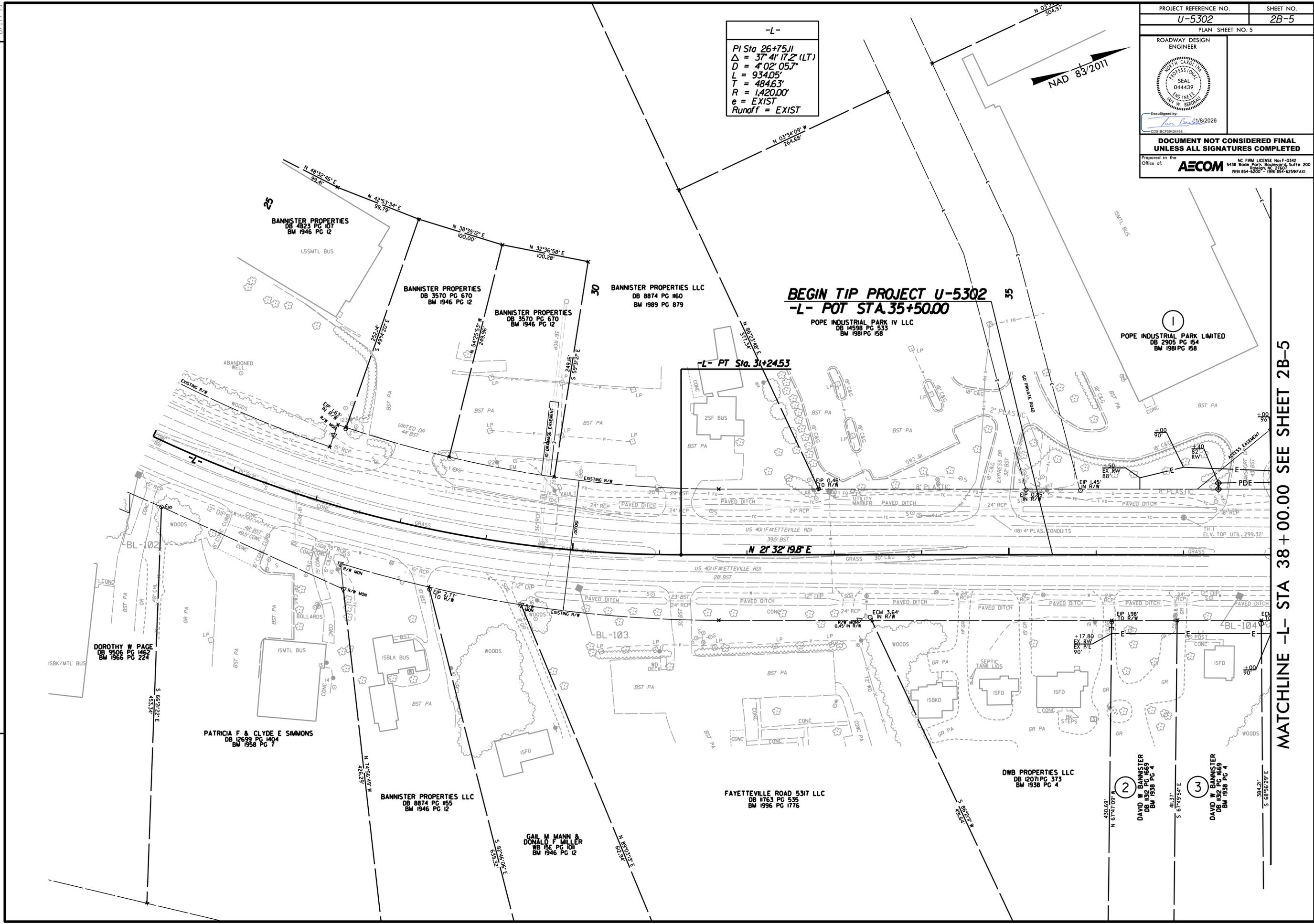
REVISIONS

-L-

PI Sta 26+75.11
 $\Delta = 37' 41" 17.2' (LT)$
 $D = 4' 02" 05.7'$
 $L = 934.05'$
 $T = 484.63'$
 $R = 1,420.00'$
 $e = EXIST$
 Runoff = EXIST

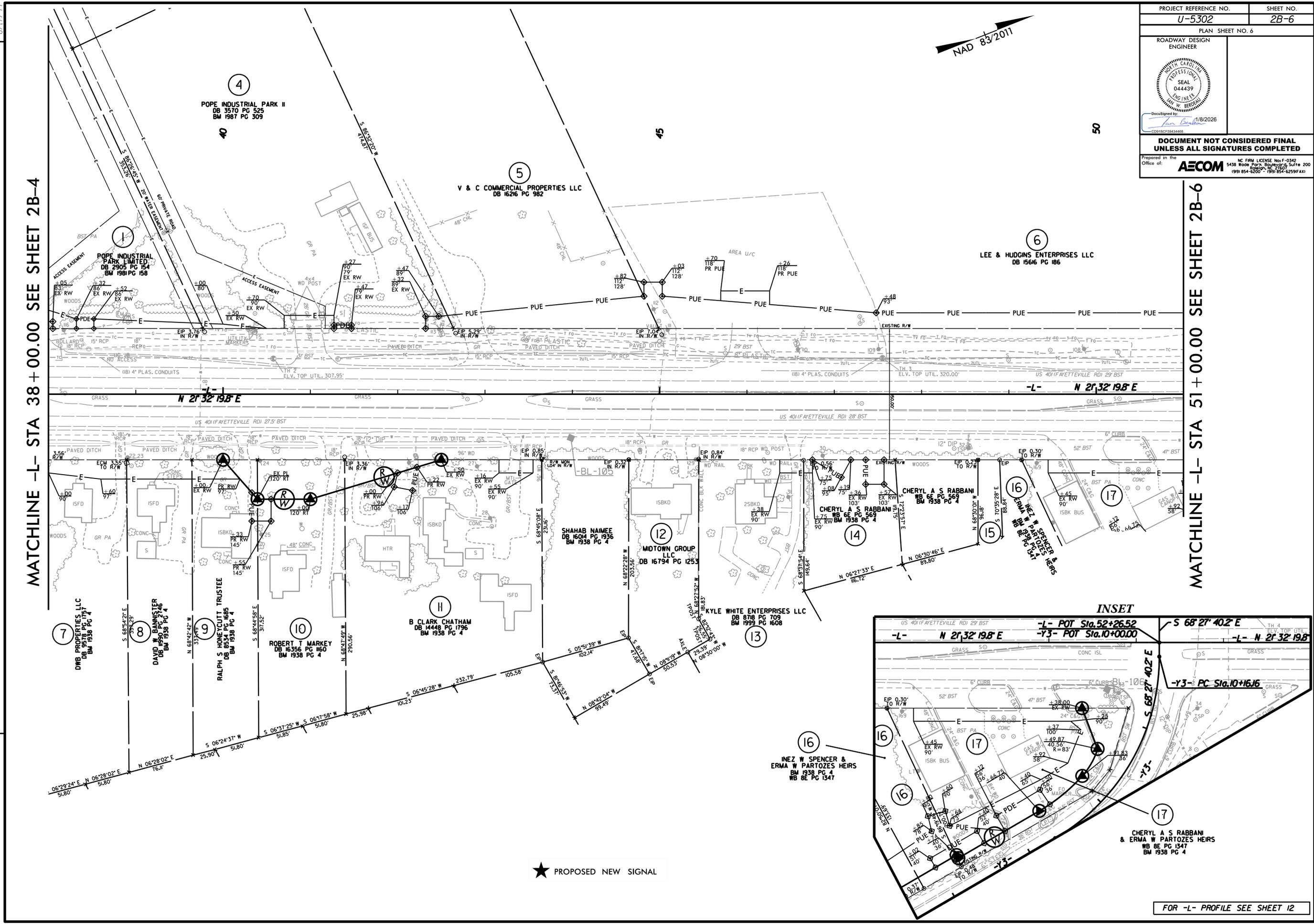


PROJECT REFERENCE NO. U-5302	SHEET NO. 2B-5
PLAN SHEET NO. 5	
ROADWAY DESIGN ENGINEER	
Documented by: 1/8/2026 020180250434488	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: AECOM	NC FIRM LICENSE No. F-0342 5438 Wade Park Blvd., Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (Fax)



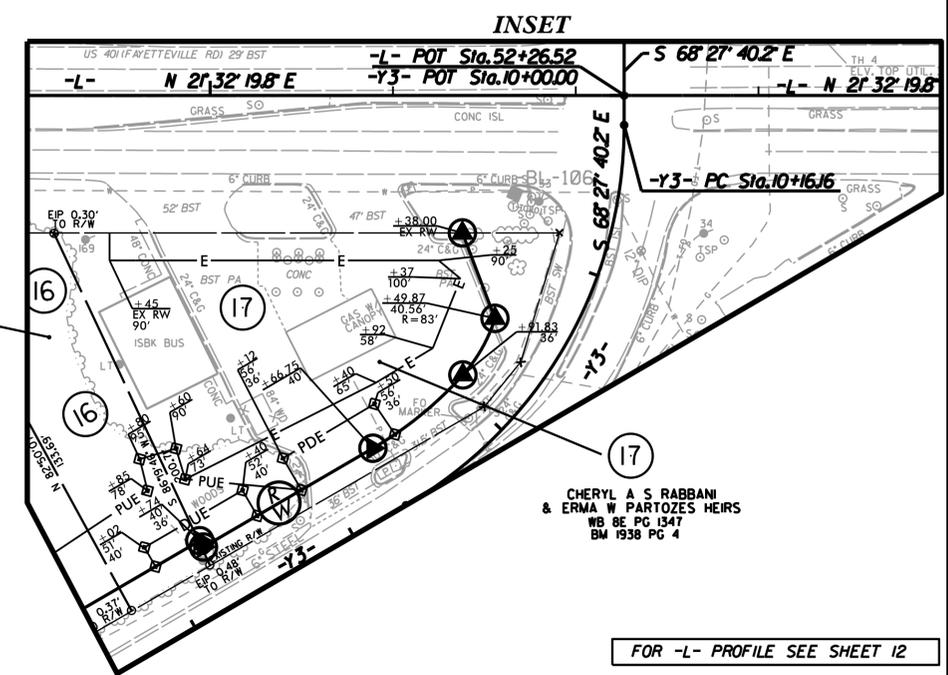
MATCHLINE -L- STA 38 + 00.00 SEE SHEET 2B-5

PROJECT REFERENCE NO. U-5302	SHEET NO. 2B-6
PLAN SHEET NO. 6	
ROADWAY DESIGN ENGINEER	
DocuSigned by: <i>Cheryll A. S. Rabbani</i> 1/8/2026 CD018CF90434468	
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MATCHLINE -L- STA 38 + 00.00 SEE SHEET 2B-4

MATCHLINE -L- STA 51 + 00.00 SEE SHEET 2B-6



★ PROPOSED NEW SIGNAL

FOR -L- PROFILE SEE SHEET 12

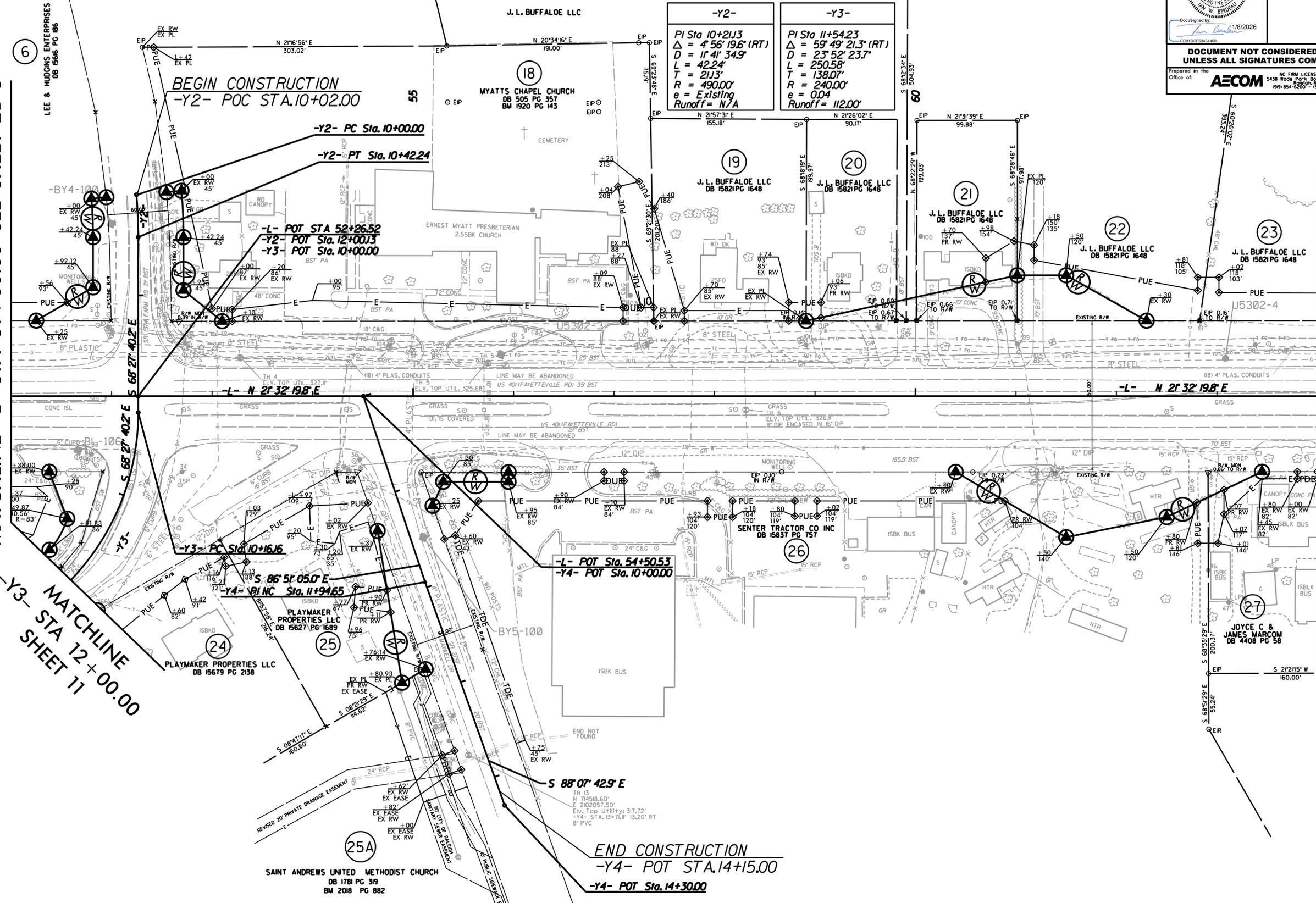
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 REVISIONS

PROJECT REFERENCE NO. U-5302	SHEET NO. 2B-7
PLAN SHEET NO. 7	
ROADWAY DESIGN ENGINEER	
Documented by: <i>[Signature]</i> 1/8/2026 201815CF90434468	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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MATCHLINE -L- STA 51 + 00.00 SEE SHEET 2B-5

MATCHLINE -L- STA 64 + 00.00 SEE SHEET 2B-7



-Y2-	-Y3-
$PI\ Sta\ 10+21.13$ $\Delta = 4\ 56\ 19.6\ (RT)$ $D = 11\ 41\ 34.9'$ $L = 42.24'$ $T = 21.13'$ $R = 490.00'$ $e = Existing$ $Runoff = N/A$	$PI\ Sta\ 11+54.23$ $\Delta = 59\ 49\ 21.3\ (RT)$ $D = 23\ 52\ 23.7'$ $L = 250.58'$ $T = 138.07'$ $R = 240.00'$ $e = 0.04$ $Runoff = 112.00'$

MATCHLINE -Y3- STA 12 + 00.00 SHEET 11

END CONSTRUCTION
-Y4- POT STA. 14+15.00
-Y4- POT Sta. 14+30.00

12/23/2025 9:58:29 AM C:\Users\mohammed.f.ahmed\Documents\60488049-U-5302-CAD\GIS\910-CAD\70-NCDDOT-TIP\Roadway\Proj\U5302-rdy_psh_02B-7.dgn

REVISIONS

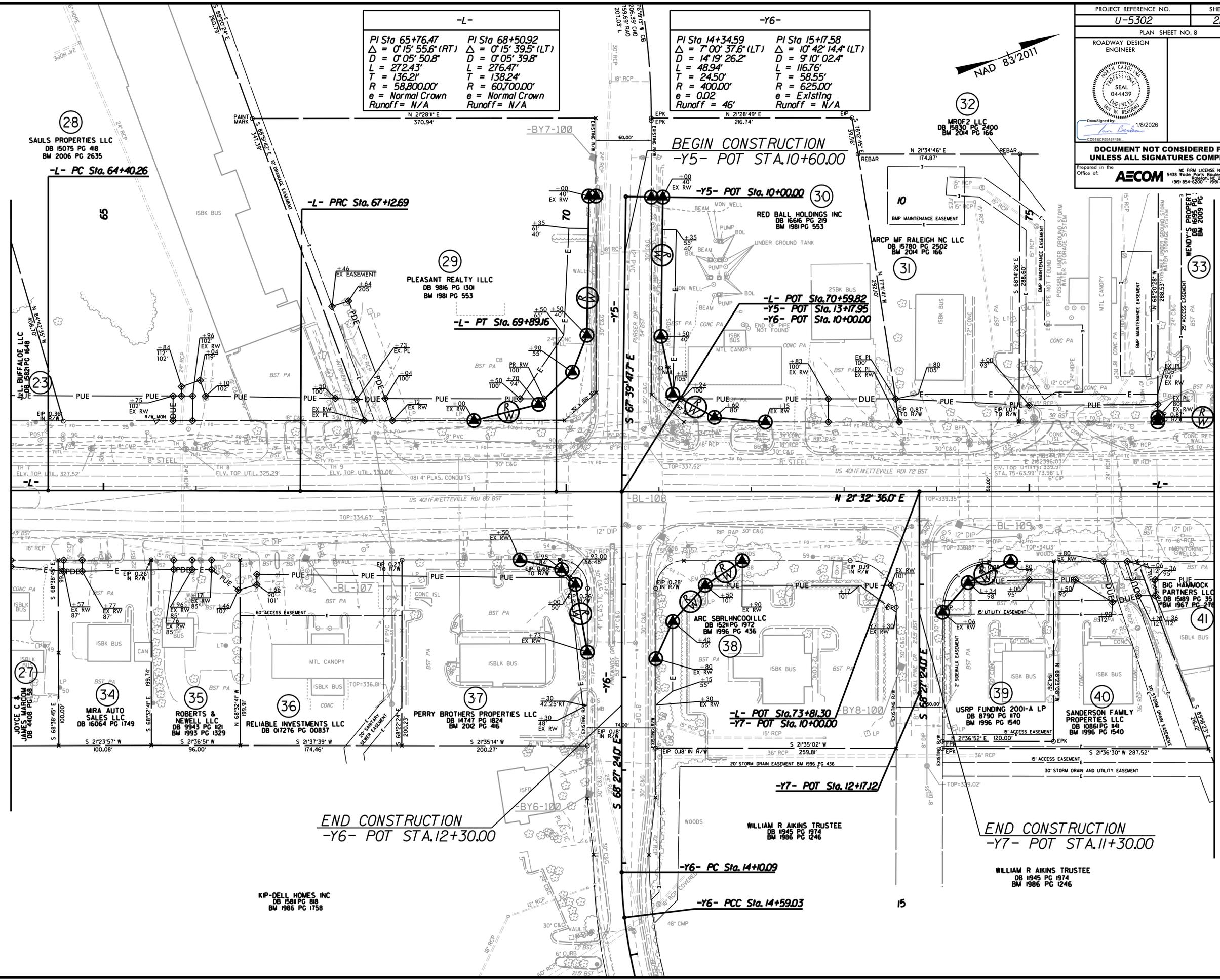
8/17/99

12/3/2025 10:00 am no-pw-bentley.com\AECOM_USA_North_Carolina\Documents\60488049-U-5302-CAD\GIS\910-CAD\70-NCDDOT-TIP\Roadway\Proj\U5302_rdy_psh_02B-8.dgn
REVISIONS

PROJECT REFERENCE NO. U-5302	SHEET NO. 2B-8
PLAN SHEET NO. 8	
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: AECOM <small>NC FIRM LICENSE No. F-0342 5438 Wade Park Blvd., Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 FAX</small>	

MATCHLINE -L- STA 64 + 00.00 SEE SHEET 2B-6

MATCHLINE -L- STA 77 + 00.00 SEE SHEET 2B-8



-L-

PI Sta 65+76.47 Δ = 0' 15' 55.6" (RT) D = 0' 05' 50.8" L = 272.43' T = 136.21' R = 58,800.00' e = Normal Crown Runoff = N/A	PI Sta 68+50.92 Δ = 0' 15' 39.5" (LT) D = 0' 05' 39.8" L = 276.47' T = 138.24' R = 60,700.00' e = Normal Crown Runoff = N/A
--	--

-Y6-

PI Sta 14+34.59 Δ = 7' 00' 37.6" (LT) D = 14' 19' 26.2" L = 48.94' T = 24.50' R = 400.00' e = 0.02 Runoff = 46'	PI Sta 15+17.58 Δ = 10' 42' 14.4" (LT) D = 9' 10' 02.4" L = 116.76' T = 58.55' R = 625.00' e = Existing Runoff = N/A
--	---

32
MROF2 LLC
DB 15830 PG 2400
BM 2014 PG 165

29
PLEASANT REALTY ILLC
DB 9816 PG 1301
BM 1981 PG 553

BEGIN CONSTRUCTION
-Y5- POT STA. 10+60.00

30
RED BALL HOLDINGS INC
DB 16616 PG 219
BM 1981 PG 553

31
ARCP MF RALEIGH NC LLC
DB 15780 PG 2502
BM 2014 PG 166

28
SAULS PROPERTIES LLC
DB 15075 PG 418
BM 2006 PG 2635

23
L. BUFFALO LLC
DB 16021 PG 1648

27
JOYCE C & JAMES MARCOM
DB 14408 PG 58

34
MIRA AUTO SALES LLC
DB 16064 PG 1749

35
ROBERTS & NEWELL LLC
DB 9943 PG 1321
BM 1993 PG 1329

36
RELIABLE INVESTMENTS LLC
DB 01276 PG 00837

37
PERRY BROTHERS PROPERTIES LLC
DB 14747 PG 1824
BM 2022 PG 416

38
ARC SBRLHCO ILLC
DB 15211 PG 1972
BM 1996 PG 436

39
USRP FUNDING 2001-A LP
DB 8790 PG 170
BM 1996 PG 1540

40
SANDERSON FAMILY PROPERTIES LLC
DB 10861 PG 141
BM 1996 PG 1540

41
BIG HAMMOCK PARTNERS LLC
DB 15819 PG 35
BM 1967 PG 278

END CONSTRUCTION
-Y6- POT STA. 12+30.00

END CONSTRUCTION
-Y7- POT STA. 11+30.00

KIP-DELL HOMES INC
DB 15811 PG 818
BM 1986 PG 1758

WILLIAM R AKINS TRUSTEE
DB 1962 PG 1246

WILLIAM R AKINS TRUSTEE
DB 1945 PG 1974
BM 1986 PG 1246

-Y6- PC Sta. 14+10.09

-Y6- PCC Sta. 14+59.03

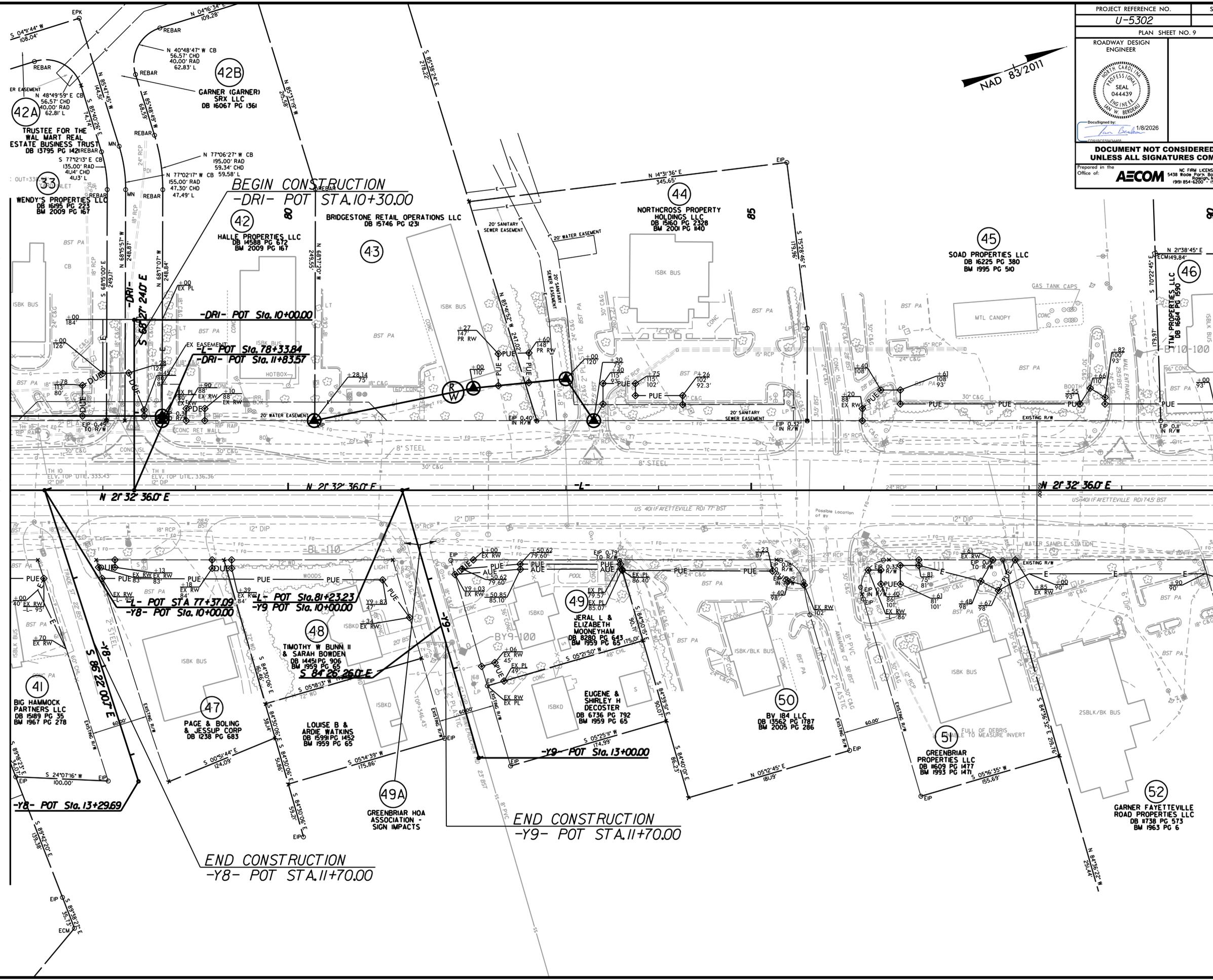
15

PROJECT REFERENCE NO. U-5302	SHEET NO. 2B-9
PLAN SHEET NO. 9	
ROADWAY DESIGN ENGINEER	
	
DocuSigned by: <i>John Beale</i> 1/8/2026	
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MATCHLINE -L- STA 77+00.00 SEE SHEET 2B-7

MATCHLINE -L- STA 90+00.00 SEE SHEET 2B-9



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REVISIONS

8.17/7.99

8.17.2025

12/3/2025
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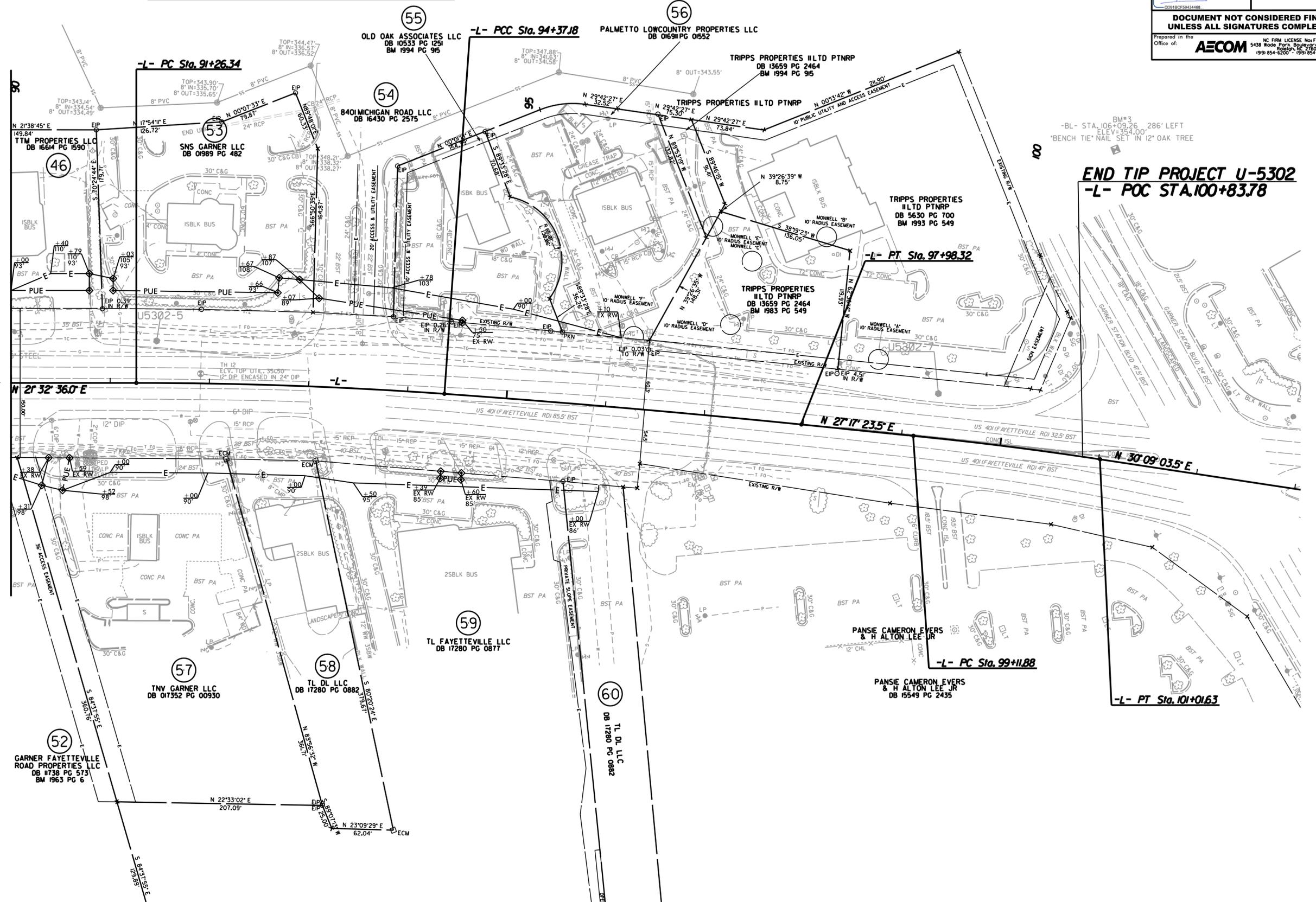
REVISIONS

MATCHLINE -L- STA 90+00.00 SEE SHEET 2B-8

-L-		
PI Sta 92+81.83	PI Sta 96+17.77	PI Sta 100+06.77
$\Delta = 4' 02" 51.7' (RT)$	$\Delta = 1' 41" 55.9' (RT)$	$\Delta = 2' 51" 39.9' (RT)$
$D = 1' 18" 07.8'$	$D = 0' 28" 13.5'$	$D = 1' 30" 28.0'$
$L = 310.84'$	$L = 361.4'$	$L = 189.75'$
$T = 155.49'$	$T = 180.58'$	$T = 94.90'$
$R = 4,400.00'$	$R = 12,180.00'$	$R = 3,800.00'$
$e = 3\%$	$e = NC$	$e = EXIST$
Runoff = 147'	Runoff = N/A	Runoff = EXIST



PROJECT REFERENCE NO. U-5302	SHEET NO. 2B-10
PLAN SHEET NO. 10	
ROADWAY DESIGN ENGINEER	
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Prepared in the Office of: 	



END TIP PROJECT U-5302
-L- POC STA. 100+83.78

BM=3
-BL- STA. 106+09.26 286' LEFT
ELEV=354.00'
*BENCH TIE NAIL SET IN 12" OAK TREE

52
GARNER FAYETTEVILLE
ROAD PROPERTIES, LLC
DB 1738 PG 573
BM 1963 PG 6

57
TNV GARNER LLC
DB 017352 PG 00930

58
TL DL LLC
DB 17280 PG 0882

59
TL FAYETTEVILLE LLC
DB 17280 PG 0877

60
TL DL LLC
DB 17280 PG 0882

PANSIE CAMERON EVERS
& H ALTON LEE JR
DB 15549 PG 2435

-L- PC Sta. 99+11.88

-L- PT Sta. 101+01.63

-L- PT Sta. 97+98.32

-L- PCC Sta. 94+37.8

-L- PC Sta. 91+26.34

55
OLD OAK ASSOCIATES LLC
DB 10533 PG 1254
BM 1994 PG 915

56
PALMETTO LOWCOUNTRY PROPERTIES LLC
DB 01691 PG 0552

54
840 MICHIGAN ROAD LLC
DB 16430 PG 2575

TRIPPS PROPERTIES ILTD PTNRP
DB 13659 PG 2464
BM 1994 PG 915

TRIPPS PROPERTIES
ILTD PTNRP
DB 13659 PG 2464
BM 1983 PG 549

TRIPPS PROPERTIES
ILTD PTNRP
DB 5630 PG 700
BM 1993 PG 549

46
TTM PROPERTIES LLC
DB 16614 PG 1590

53
SNS GARNER LLC
DB 01989 PG 482

52
GARNER FAYETTEVILLE
ROAD PROPERTIES, LLC
DB 1738 PG 573
BM 1963 PG 6

57
TNV GARNER LLC
DB 017352 PG 00930

58
TL DL LLC
DB 17280 PG 0882

59
TL FAYETTEVILLE LLC
DB 17280 PG 0877

60
TL DL LLC
DB 17280 PG 0882

PANSIE CAMERON EVERS
& H ALTON LEE JR
DB 15549 PG 2435

-L- PC Sta. 99+11.88

-L- PT Sta. 101+01.63

-L- PT Sta. 97+98.32

-L- PCC Sta. 94+37.8

-L- PC Sta. 91+26.34

55
OLD OAK ASSOCIATES LLC
DB 10533 PG 1254
BM 1994 PG 915

56
PALMETTO LOWCOUNTRY PROPERTIES LLC
DB 01691 PG 0552

54
840 MICHIGAN ROAD LLC
DB 16430 PG 2575

TRIPPS PROPERTIES ILTD PTNRP
DB 13659 PG 2464
BM 1994 PG 915

TRIPPS PROPERTIES
ILTD PTNRP
DB 13659 PG 2464
BM 1983 PG 549

TRIPPS PROPERTIES
ILTD PTNRP
DB 5630 PG 700
BM 1993 PG 549

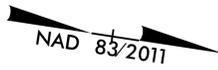
46
TTM PROPERTIES LLC
DB 16614 PG 1590

53
SNS GARNER LLC
DB 01989 PG 482

8.17.19

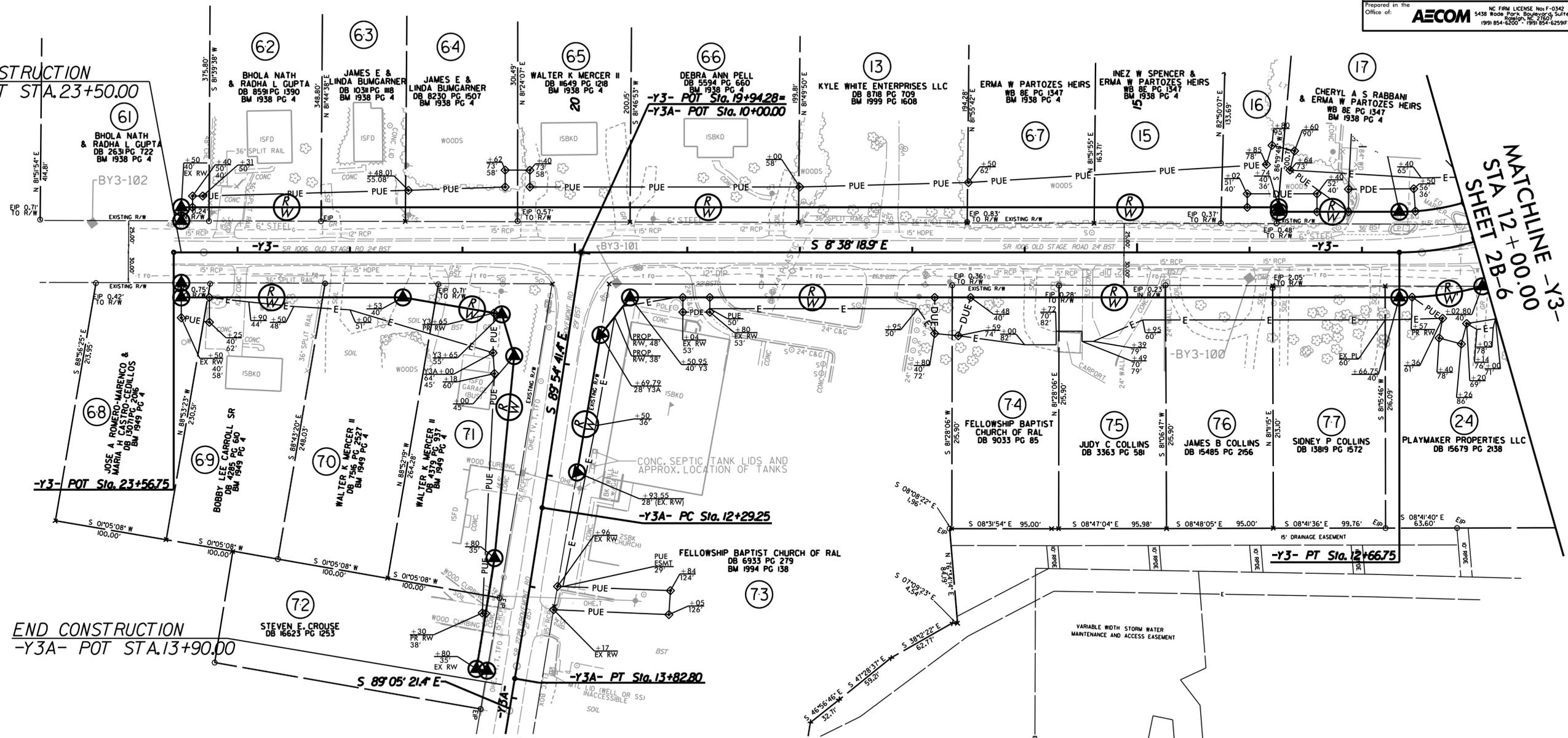
16 INEZ W SPENCER & ERMA W PARTOZES HEIRS
 BM 1938 PG 4
 WB 6E PG 1347

PROJECT REFERENCE NO. U-5302	SHEET NO. 2B-11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
Documented by: 1/8/2026	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: AECOM	NC FIRM LICENSE No. F-0342 5438 Wade Park Blvd., Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (Fax)



END CONSTRUCTION
 -Y3- POT STA. 23+50.00

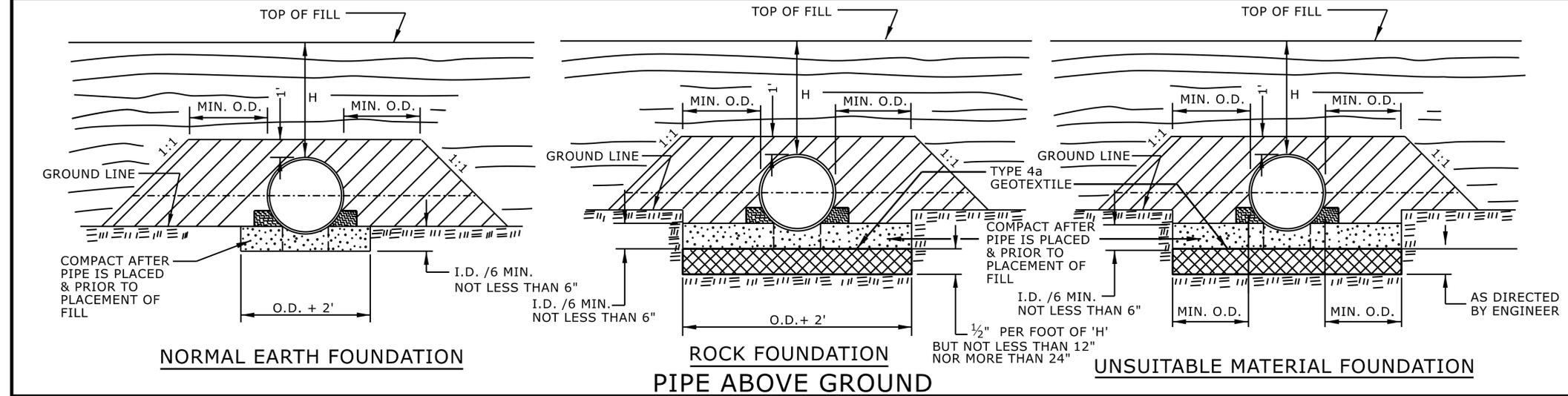
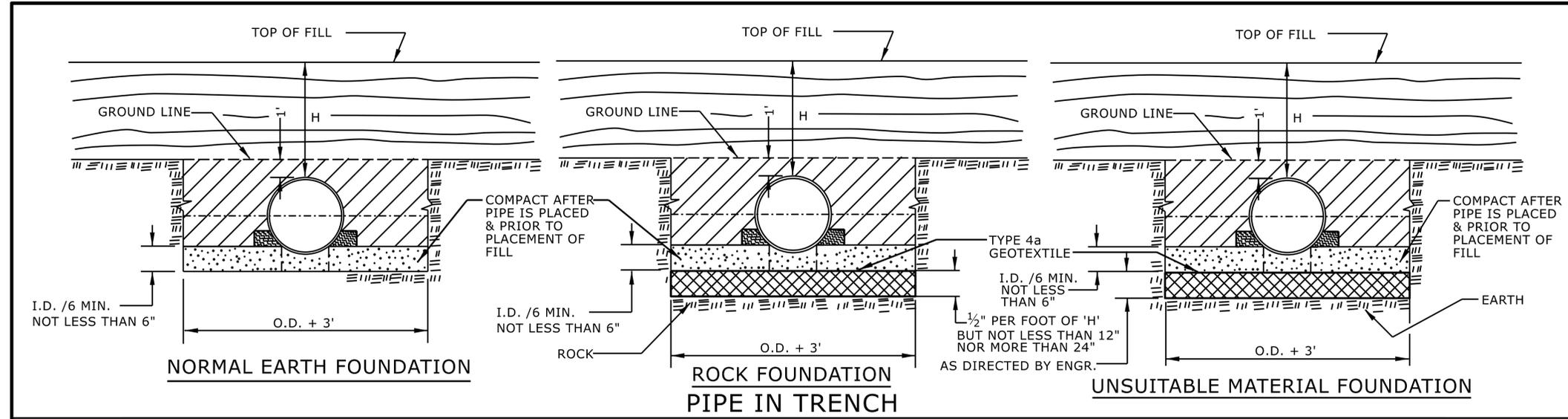
MATCHLINE -Y3-
 STA 12+00.00
 SHEET 2B-6



END CONSTRUCTION
 -Y3A- POT STA. 13+90.00

-Y3-	-Y3A-
PI Sta 11+54.23	PI Sta 13+06.03
$\Delta = 59^{\circ} 49' 21.3''$ (RT)	$\Delta = 0^{\circ} 49' 20.0''$ (RT)
$D = 23^{\circ} 52' 23.7''$	$D = 0^{\circ} 32' 07.7''$
$L = 250.58'$	$L = 153.55'$
$T = 138.07'$	$T = 76.78'$
$R = 240.00'$	$R = 10,700.00'$
$e = 0.04$	$e = NC$
Runoff = 112.00'	Runoff = N/A

12/3/2025
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 REVISIONS
 12/3/2025
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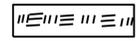


GENERAL NOTES:
 I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
 O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

 APPROVED SUITABLE LOCAL MATERIAL.
 TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL.
 LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE 1 FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.

DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.

 SPRINGLINE OF PIPE
 SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE 1 ABOVE AND BELOW SPRINGLINE.
 UNDISTURBED EARTH MATERIAL
 SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE IV GEOTEXTILE AS DIRECTED BY THE ENGINEER.

STATE OF
 NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
 FLEXIBLE PIPE



Signed by:
 Nicole M. Hecker 1/8/2026
 588432034164CS

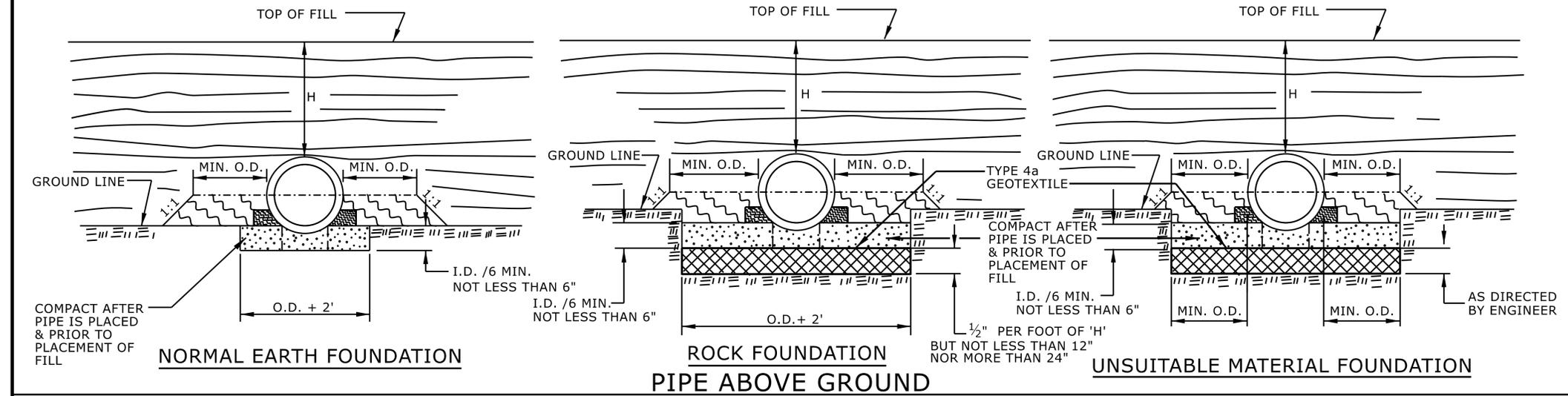
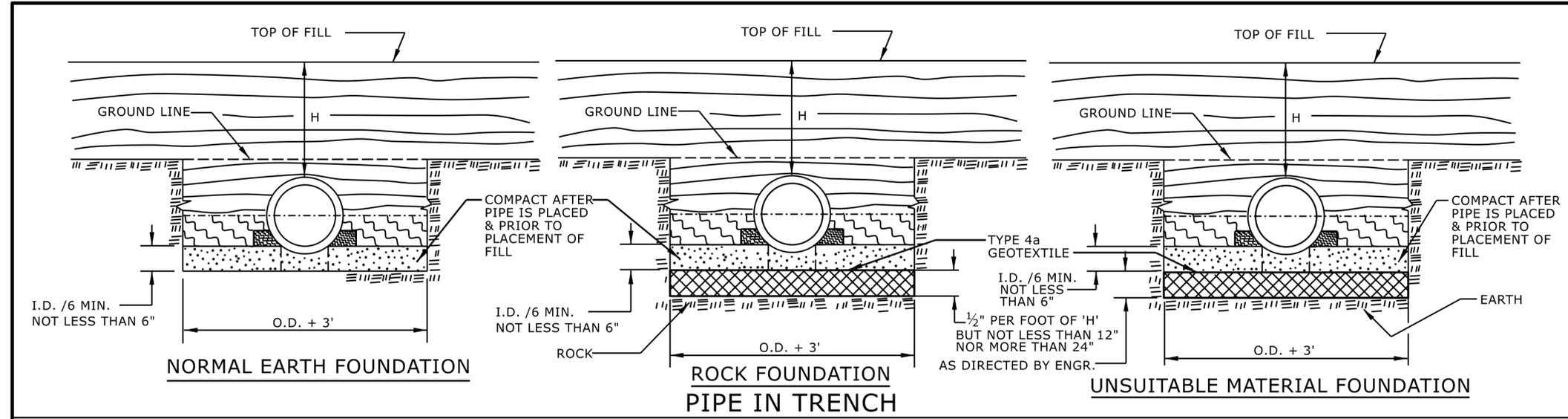
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300.01

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 UNLESS ALL SIGNATURES COMPLETED

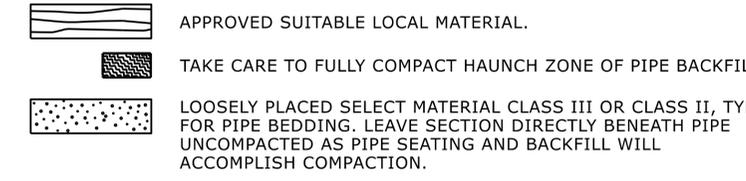
**CONTRACTS STANDARDS
 AND DEVELOPMENT UNIT**
 Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

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 MODIFIED BY: DATE:
 CHECKED BY: DATE:
 FILE SPEC: DATE:

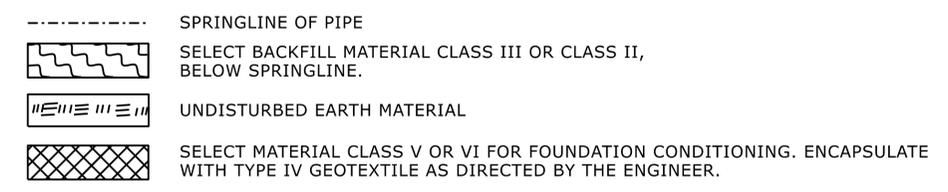


GENERAL NOTES:
 I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
 O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.



DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

REFER TO NCDOT PIPE MATERIAL SELECTION GUIDE AND STANDARD SPECIFICATIONS FOR ALLOWABLE PIPE FILL HEIGHTS AND PIPE SPECIFICATIONS.



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
METHOD OF PIPE INSTALLATION
 RIGID PIPE



Signed by: *Nicole M. Hecker* 1/8/2026
 588432034164C5

SHEET 2 OF 2
300.01

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

CONTRACTS STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

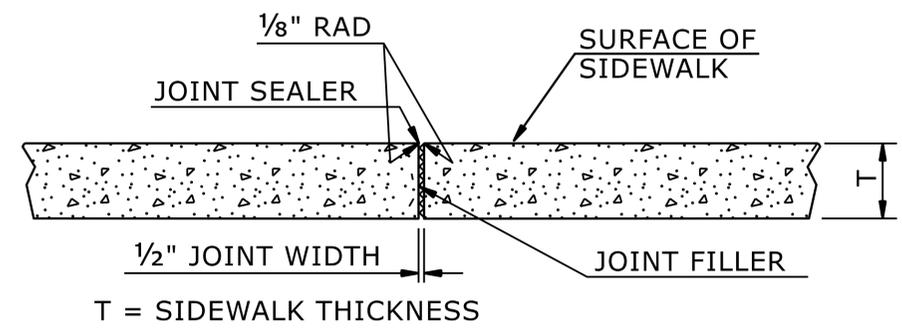
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 CHECKED BY: DATE: _____
 FILE SPEC.: _____

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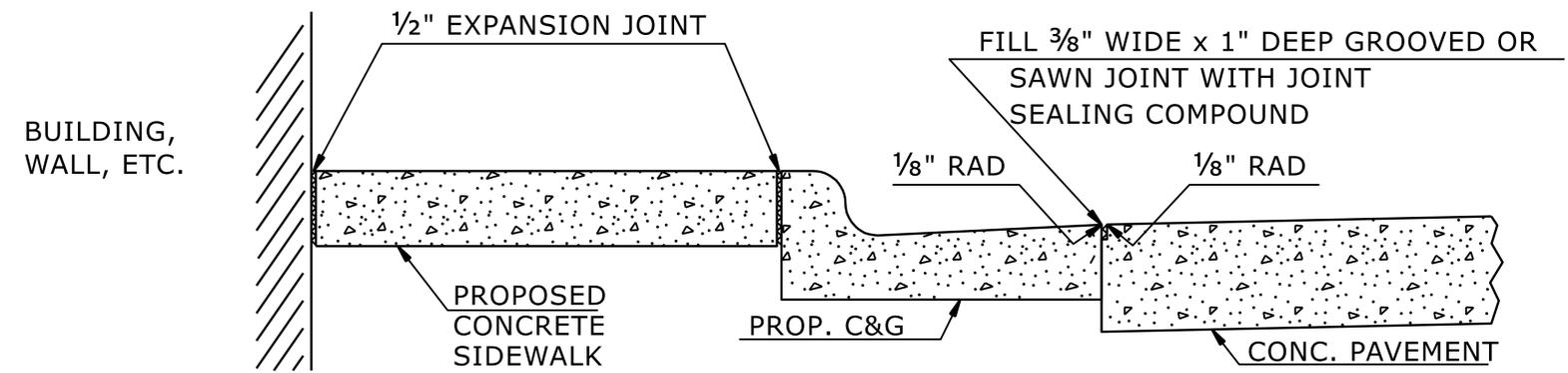
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.06 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.



TRANSVERSE EXPANSION JOINT IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
CONCRETE SIDEWALK



Signed by: *Nicole M. Hackler* 1/8/2026
588423034164C5

SHEET 1 OF 1
848D01

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

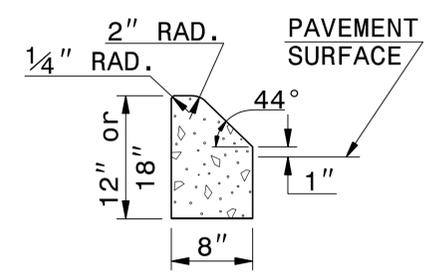
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

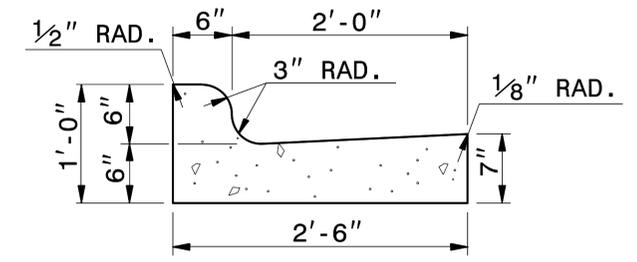
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MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	

5/14/99

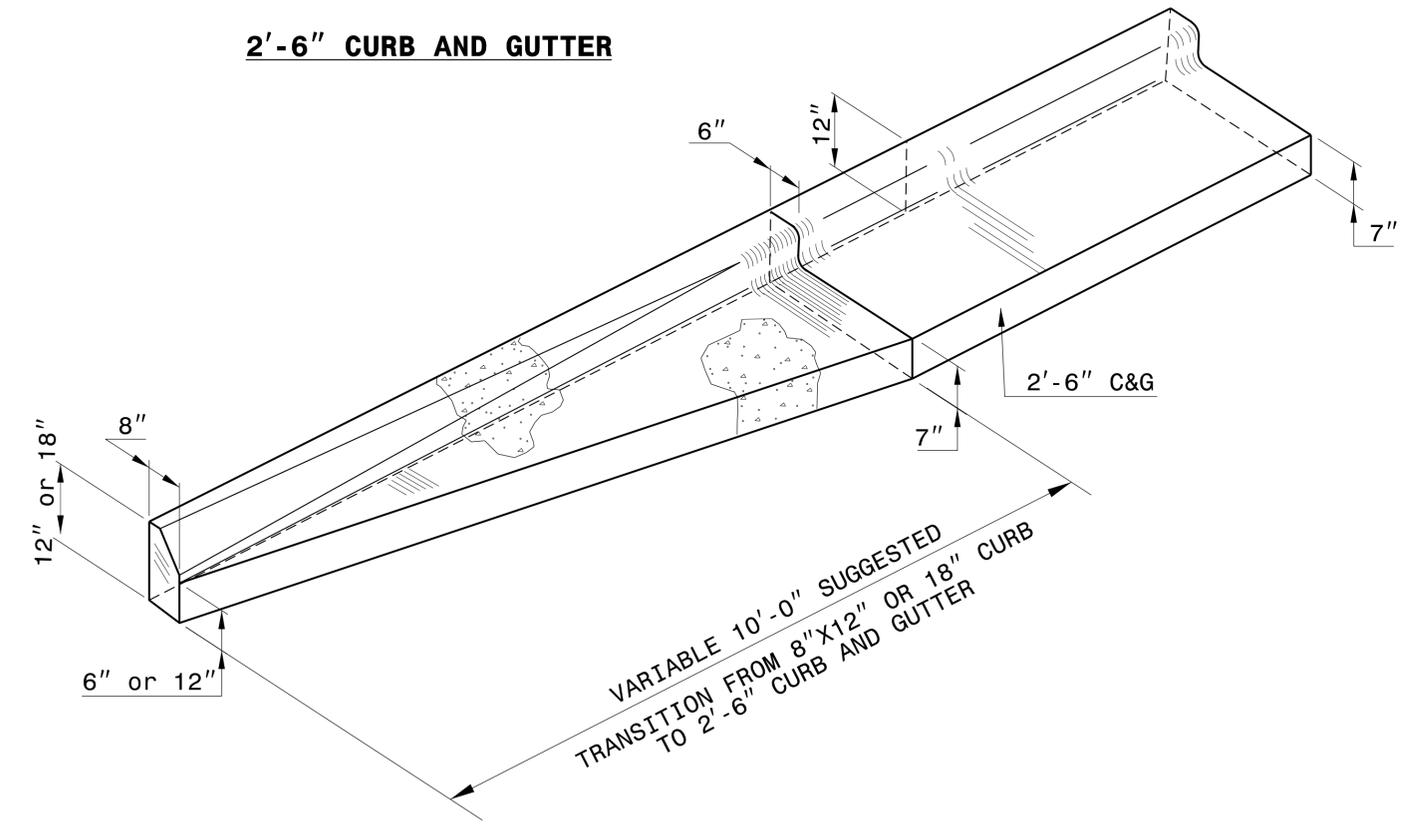
*NOTE: SEE STD. DWG. 846.01 FOR GENERAL NOTES



8" X 12" or 18" CONCRETE CURB



2'-6" CURB AND GUTTER



ISOMETRIC VIEW OF TRANSITION

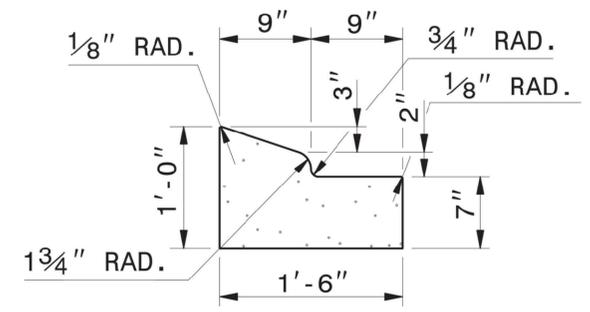


Signed by: *Nicole M. Hecker* 1/8/2026
 5884323034184CS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
DETAIL OF 8" X 12" or 18" CURB TO 2'-6" CURB & GUTTER TRANSITION SECTION	
ORIGINAL BY: _____	DATE: _____
MODIFIED BY: K. KEMPF	DATE: 4-05-18
CHECKED BY: _____	DATE: _____
FILE SPEC.: details/ericward/usr/details/stand/cgtransit.dgn	

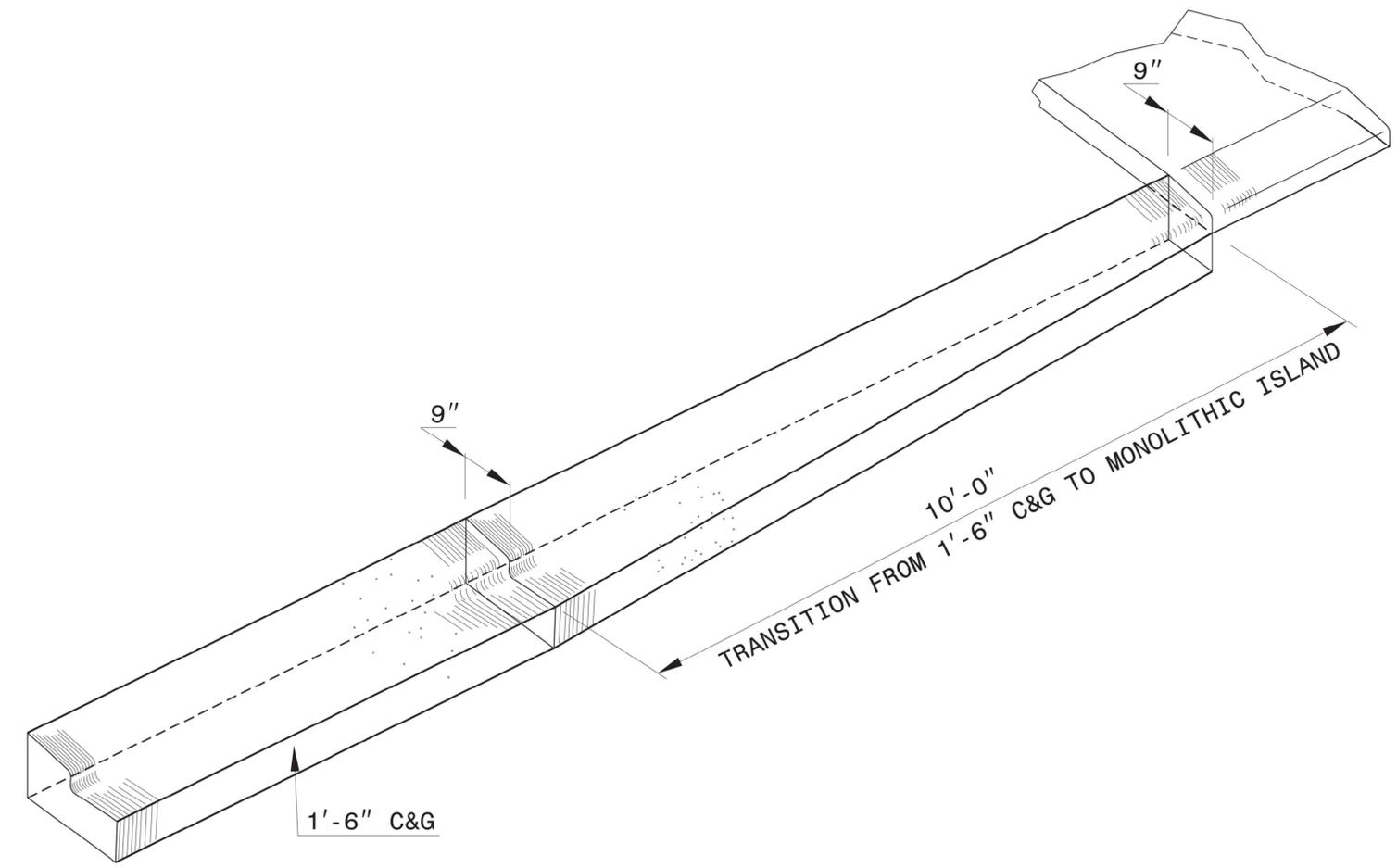
I:\MAR-2019_09450
S:\Contracts\Contractors\Special Details\ericward\usr\details\stand\c&g transition sections.dgn
J.Hoverton AT USD-292595



NOTE: SEE STD. DWG. 846.01 FOR ADDITIONAL CURB AND GUTTER INFORMATION.

SEE ROADWAY PLANS FOR LOCATION OF CURB TRANSITION.

1'-6" CURB AND GUTTER



**ISOMETRIC VIEW OF
TRANSITIONING CURB & GUTTER**



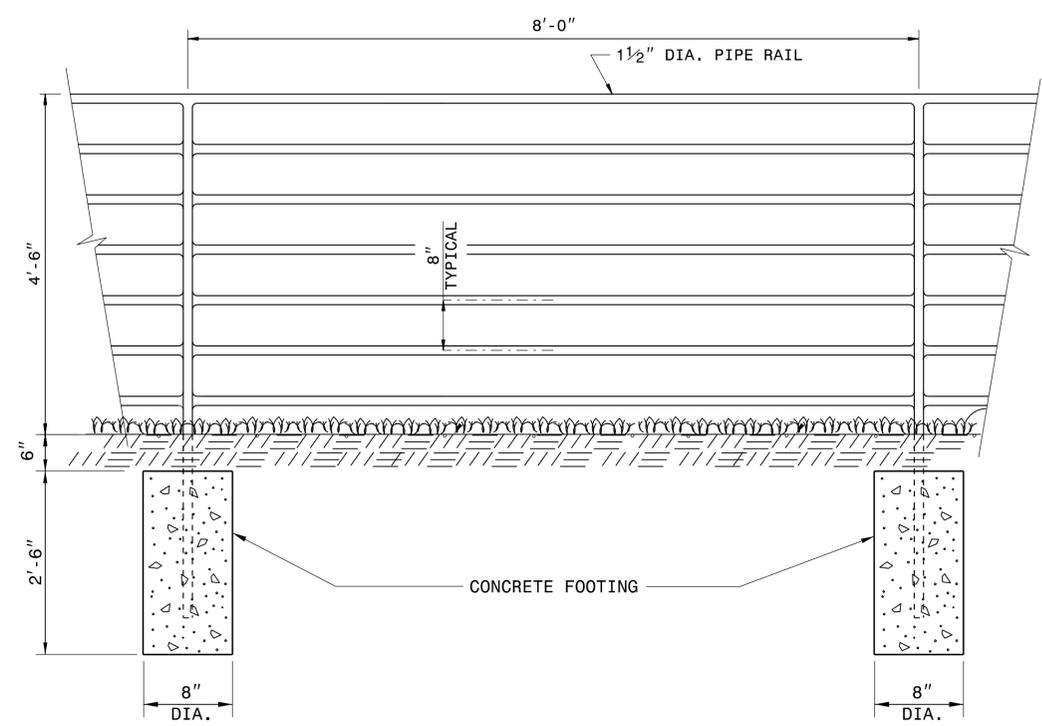
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5884232034164CS

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UNLESS ALL SIGNATURES COMPLETED

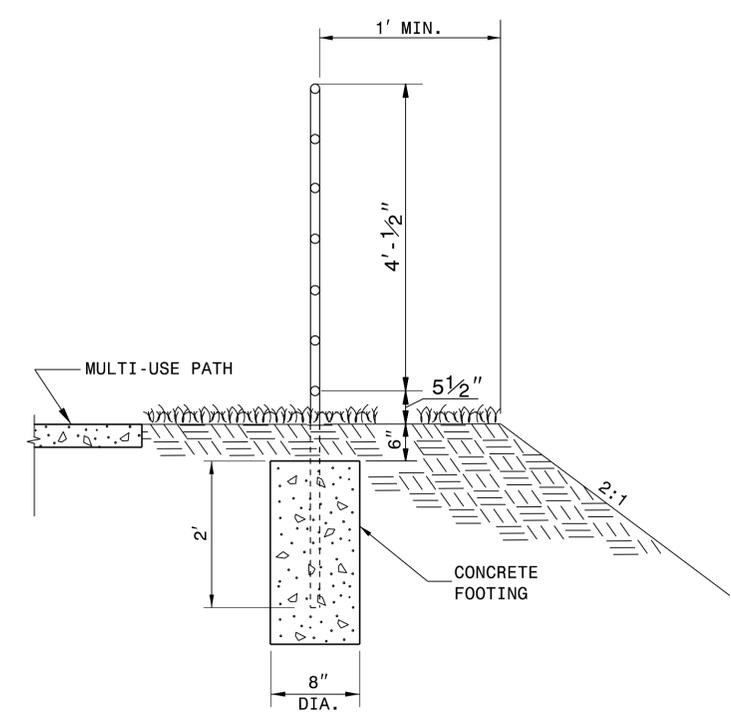
**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

**DETAIL OF 1'-6"
CURB & GUTTER
TRANSITION SECTION**

ORIGINAL BY:	DATE:
MODIFIED BY: KKEMPF	DATE: 09-24-14
CHECKED BY:	DATE:
FILE SPEC.: kkempf/english/curb_gutter_transition.dgn	



ELEVATION



SECTION VIEW

NOTES:

CONSTRUCT PROPOSED STEEL PIPE RAIL OF 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.

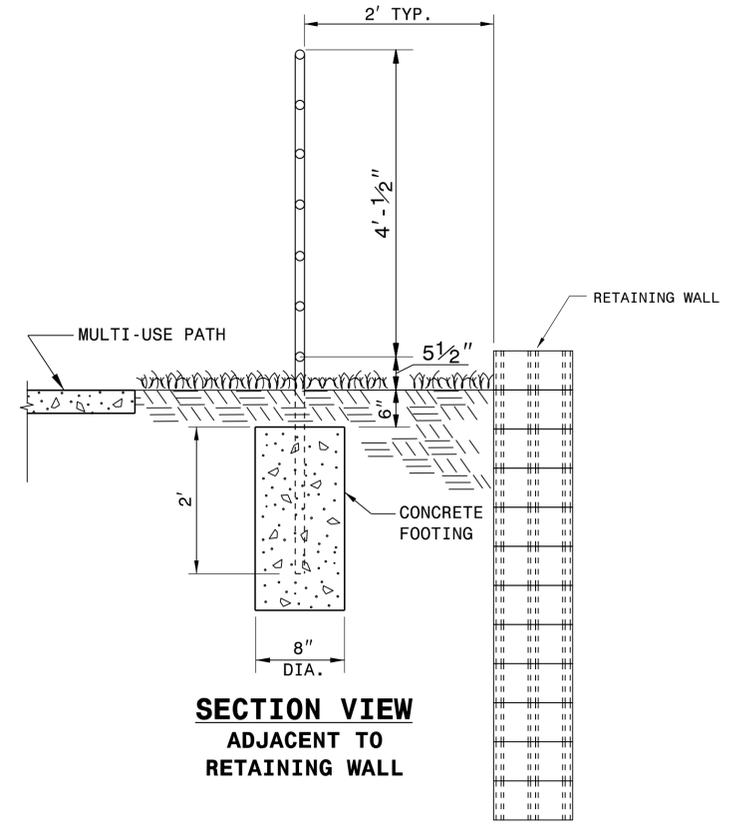
REPAIR GALVANIZING IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1076.

PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 1080.

WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.

USE CLASS 'B' CONCRETE FOR HANDRAIL FOOTINGS.

PLACEMENT OF HANDRAIL IN RELATION TO SHOULDER BREAK POINT AND PATH MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.



**SECTION VIEW
ADJACENT TO
RETAINING WALL**



Signed by: *Nicole M. Heckler* 1/8/2026
588432034164CS...

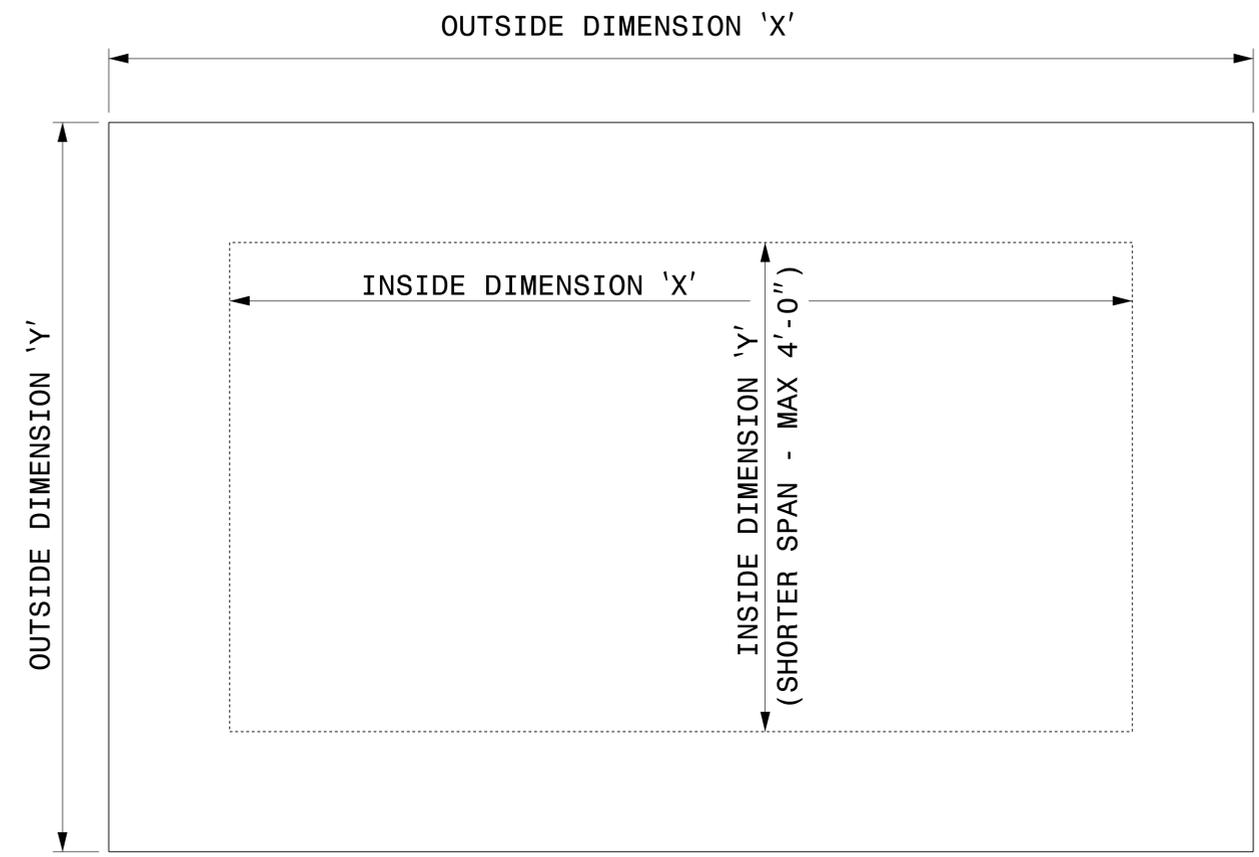
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

**CONTRACT STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-6950 FAX 919-250-4119

**BICYCLE / PEDESTRIAN
SAFETY RAIL**

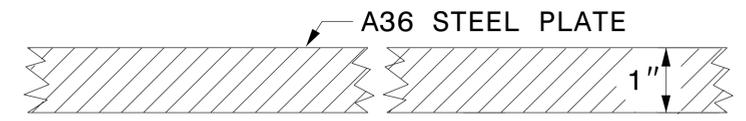
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MODIFIED BY: K.A. KEMPF	DATE: 7-20-23
CHECKED BY:	DATE:
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20-JUL-2023 12:36
K Kempf AT CSD-320967



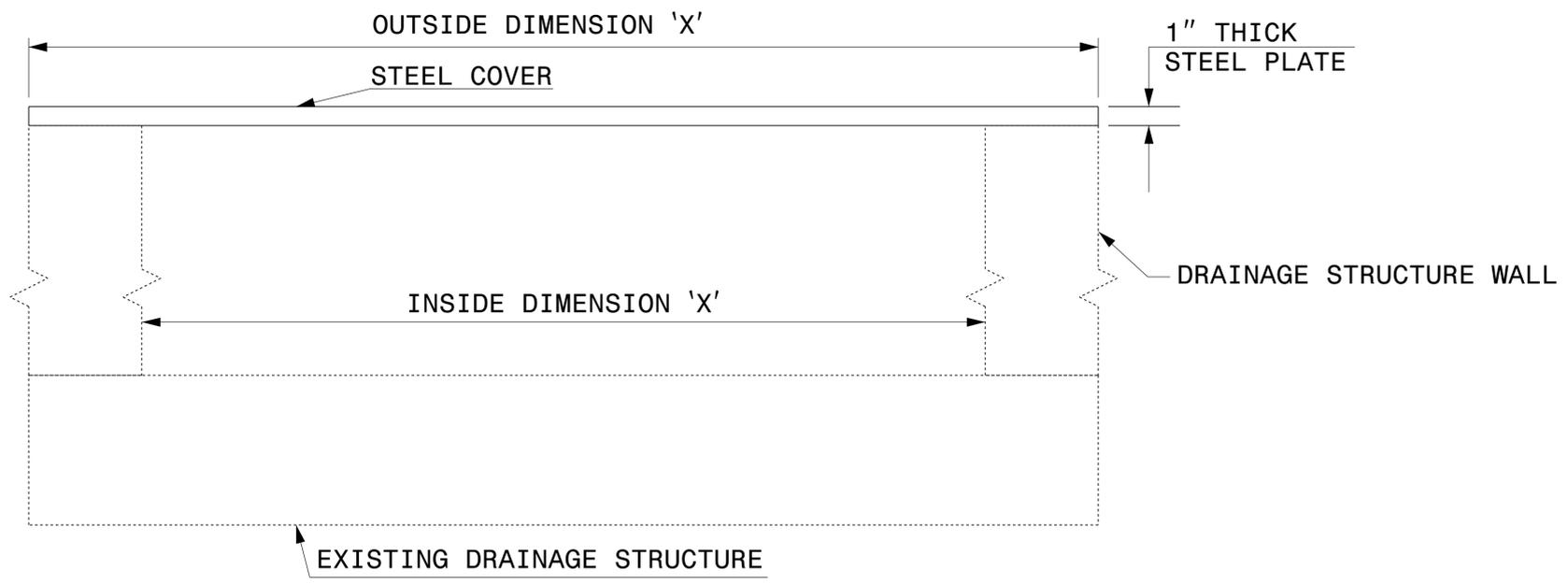
GENERAL NOTES:

- USE GRADE A36 STEEL
- STEEL COVERS ARE FOR TEMPORARY USE DURING PHASE CONSTRUCTION.
- FILL SHALL BE PLACED DIRECTLY OVER THE STEEL PLATES.
- SEE ROADWAY PLANS AND PROVISIONS FOR LOCATIONS
- QUANTITIES TO BE PAID FOR AT THE UNIT PRICE BID PER EACH.



SECTION VIEW OF STEEL TOP PLATE

PLAN VIEWS



ELEVATION VIEWS



Signed by:
Nicole M. Heckler 1/8/2026
 5884323034164CS...

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CONTRACT STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

DETAIL OF TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE

ORIGINAL BY: E.E. WARD DATE: 2-2-98
 MODIFIED BY: DATE: _____
 CHECKED BY: DATE: _____
 FILE SPEC.: eric:/usr/details/metric/stand/st1cvr2.dgn

\$\$\$\$\$ USERNAME\$\$\$\$\$
 \$\$\$ TIME \$\$\$
 \$\$\$ CTIME \$\$\$

COMPUTED BY: RPD DATE: 7/9/2019
 CHECKED BY: _GWL_ DATE: 7/9/2019
 REVISED BY: _RPD_ DATE: 3/6/2025

(9-17-24)

PROJECT NO.	SHEET NO.
U-5302	3G-1

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
	CONTINGENCY			SD	1000
				TOTAL LF:	1000

*UD = Underdrain
 *BD = Blind Drain
 *SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
L	36+25	43+75	ASU(1)	12	875	1850	2650		
L	48+25	51+25	ASU(1)	12	250	525	875		
L	54+25	59+75	ASU(1)	12	1005	2100	3150		
L	61+25	71+25	ASU(1)	12	1020	2150	3700		
L	72+25	77+75	ASU(1)	12	1255	2625	3825		
L	79+75	81+25	ASU(1)	12	180	375	550		
L	83+25	91+25	ASU(1)	12	815	1700	2675		
L	93+75	96+25	ASU(1)	12	145	300	475		
Y3	15+75	23+00	ASU(1)	12	655	1375	2100		
	CONTINGENCY				1000	2000	3000	500	
			TOTAL CY/TONS/SY:		7200	15000**	23000**	500	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
 *AST = Aggregate Stabilization
 **Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

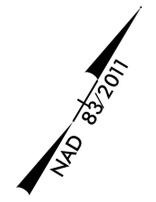
PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	5,6	POPE INDUSTRIAL PARK LIMITED
2	5	DAVID W BANNISTER
3	5	DAVID W BANNISTER
4	6	POPE INDUSTRIAL PARK II
5	6	V & C COMMERCIAL PROPERTIES LLC
6	6,7	LEE & HUDGINS ENTERPRISES LLC
7	6	DWB PROPERTIES LLC
8	6	DAVID W BANNISTER
9	6	RALPH S HONEYCUTT TRUSTEE
10	6	ROBERT T MARKEY
11	6	B CLARK CHATHAM
12	6	MIDTOWN GROUP LLC
13	6,11	KYLE WHITE ENTERPRISES LLC
14	6	CHERYL A S RABBANI
15	6,11	INEZ W SPENCER & ERMA W PARTOZES HEIRS
16	6,11	INEZ W SPENCER & ERMA W PARTOZES HEIRS
17	6,7,11	CHERYL A S RABBANI & ERMA W PARTOZES HEIRS
18	7	MYATTS CHAPEL CHURCH
19	7	J. L. BUFFALOE LLC
20	7	J. L. BUFFALOE LLC
21	7	J. L. BUFFALOE LLC
22	7	J. L. BUFFALOE LLC
23	7,8	J. L. BUFFALOE LLC
24	7,11	PLAYMAKER PROPERTIES LLC
25	7	PLAYMAKER PROPERTIES LLC
25A	7	SAINT ANDREWS UNITED METHODIST CHURCH
26	7	SENER TRACTOR CO INC
27	7,8	JOYCE C & JAMES MARCOM
28	8	SAULS PROPERTIES LLC
29	8	PLEASANT REALTY I LLC
30	8	RED BALL HOLDINGS INC
31	8	ARCP MF RALEIGH NC LLC
32	8	MROF2 LLC
33	8,9	WENDY'S PROPERTIES LLC
34	8	MIRA AUTO SALES LLC
35	8	ROBERTS & NEWELL LLC
36	8	RELIABLE INVESTMENTS LLC
37	8	PERRY BROTHERS PROPERTIES LLC
38	8	ARC SBRHNC001 LLC
39	8	USRP FUNDING 2001-A LP

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
40	8	SANDERSON FAMILY PROPERTIES LLC
41	8,9	BIG HAMMOCK PARTNERS LLC
42	9	HALLE PROPERTIES LLC
42A	9	TRUSTEE FOR THE WAL MART REAL ESTATE BUSINESS
42B	9	GARNER (GARNER) SRX LLC
43	9	BRIDGESTONE RETAIL OPERATIONS LLC
44	9	NORTHCROSS PROPERTY HOLDINGS LLC
45	9	SOAD PROPERTIES LLC
46	9,10	TTM PROPERTIES LLC
47	9	PAGE & BOLING & JESSUP CORP
48	9	TIMOTHY W BUNN II & SARAH BOWDEN
49	9	JERAL L & ELIZABETH MOONEYHAM
49A	9	GREENBRIAR HOA ASSOCIATION-SIGN IMPACTS
50	9	BV 184 LLC
51	9	GREENBRIAR PROPERTIES LLC
52	9,10	GARNER FAYETTEVILLE ROAD PROPERTIES LLC
53	10	SNS GARNER LLC
54	10	8401 MICHIGAN ROAD LLC
55	10	OLD OAK ASSOCIATES LLC
56	10	PALMETTO LOWCOUNTRY PROPERTIES LLC
57	10	TNY GARNER LLC
58	10	TL DL LLC
59	10	TL FAYETTEVILLE LLC
60	10	TL DL LLC
61	11	BHOLA NATH & RADHA L GUPTA
62	11	BHOLA NATH & RADHA L GUPTA
63	11	JAMES E & LINDA BUMGARNER
64	11	JAMES E & LINDA BUMGARNER
65	11	WALTER K MERCER II
66	11	DEBRA ANN PELL
67	11	ERMA W PARTOZES HEIRS
68	11	JOSE A ROMERO-MARENCO & MARIA H CASTRO-CEDILLOS
69	11	BOBBY LEE CARROLL SR
70	11	WALTER K MERCER II
71	11	WALTER K MERCER II
72	11	STEVEN E. CROUSE
73	11	FELLOWSHIP BAPTIST CHURCH OF RAL
74	11	FELLOWSHIP BAPTIST CHURCH OF RAL
75	11	JUDY C COLLINS
76	11	JAMES B COLLINS
77	11	SIDNEY P COLLINS

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8.17.19

NO CONSTRUCTION SHEET 4



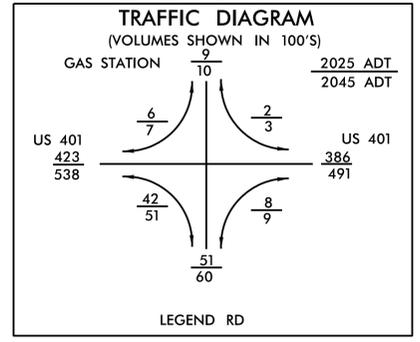
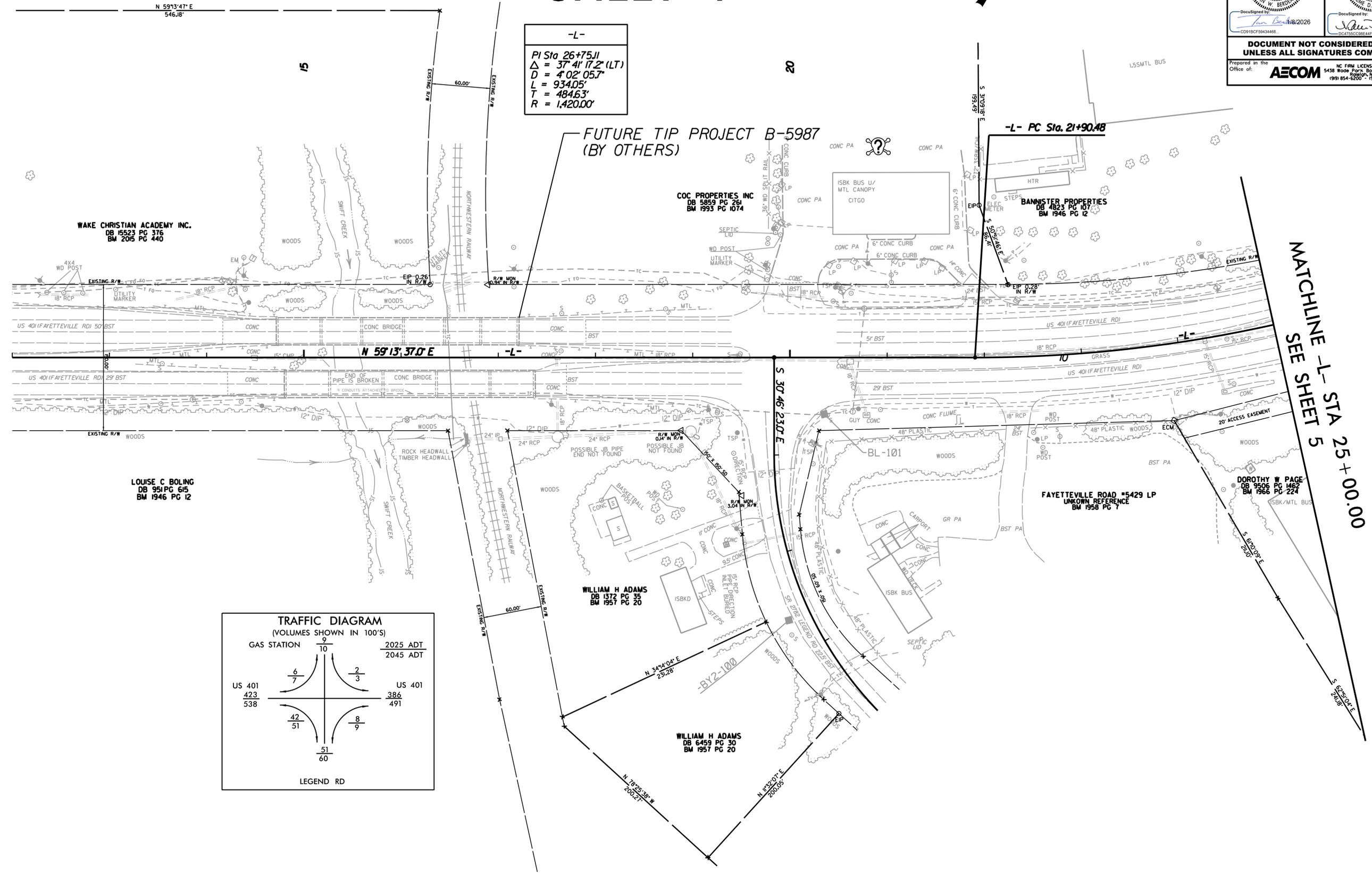
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DocuSigned by: Dan Beckwith 1/18/2026 C0918CF59434468	DocuSigned by: William D. Busby 1/18/2026 DC4F5CC028E44F1
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: AECOM	

-L-

PI Sta 26+75.11
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 $D = 4^{\circ} 02' 05.7"$
 $L = 934.05'$
 $T = 484.63'$
 $R = 1,420.00'$

FUTURE TIP PROJECT B-5987 (BY OTHERS)

-L- PC Sta. 21+90.48



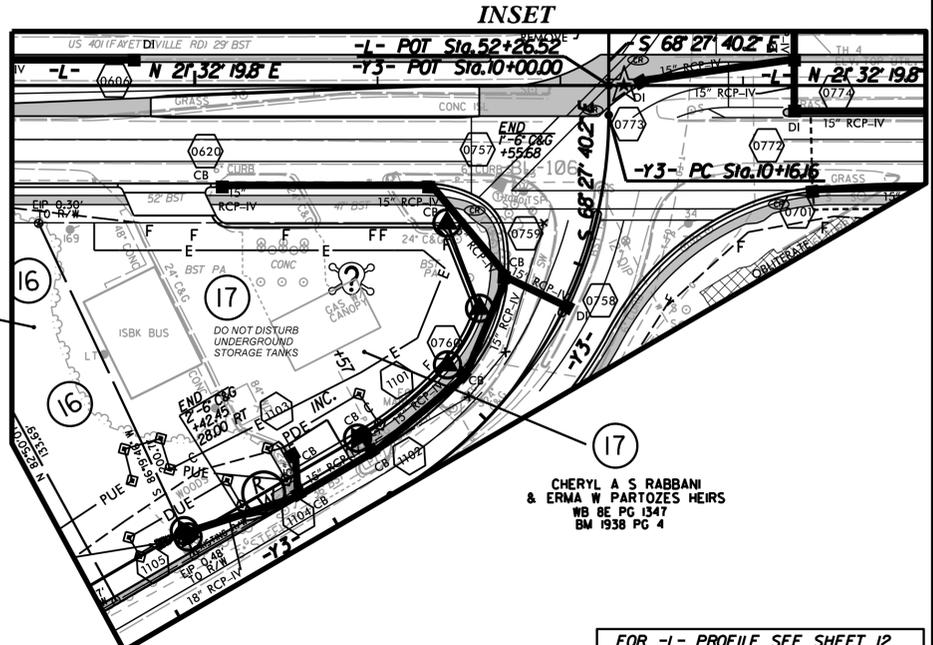
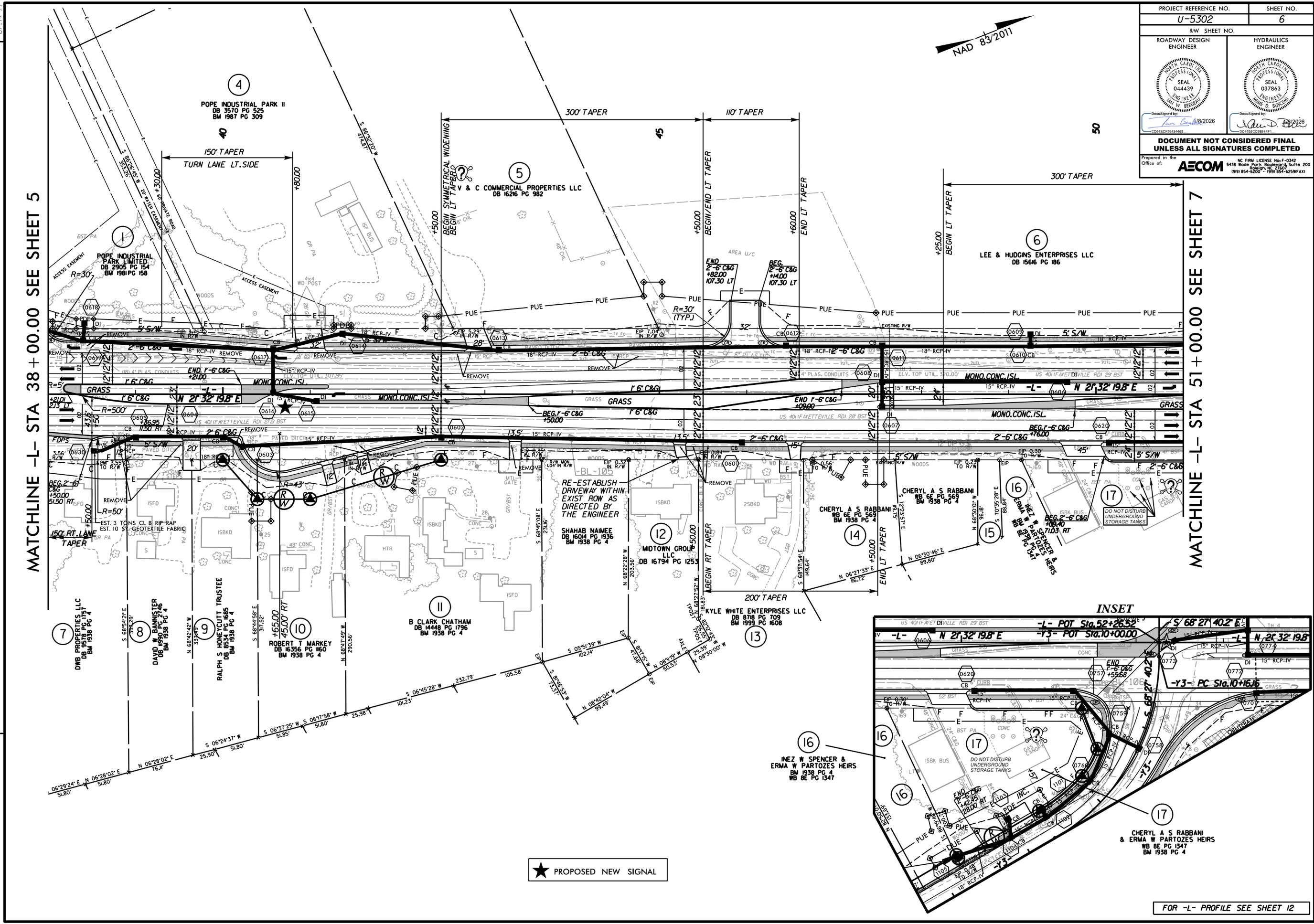
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 REVISIONS

PROJECT REFERENCE NO. U-5302	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: AECOM	



MATCHLINE -L- STA 38 + 00.00 SEE SHEET 5

MATCHLINE -L- STA 51 + 00.00 SEE SHEET 7



★ PROPOSED NEW SIGNAL

FOR -L- PROFILE SEE SHEET 12

10/31/2025 10:31 AM C:\Users\berdeau\Documents\60488049-U-5302\CAD\70-NCDDT-TIP\Roadway\Proj\U5302_rdy_psh_06.dgn

REVISIONS

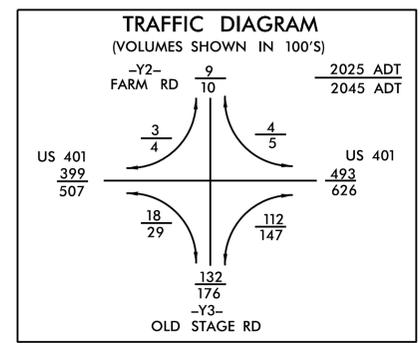
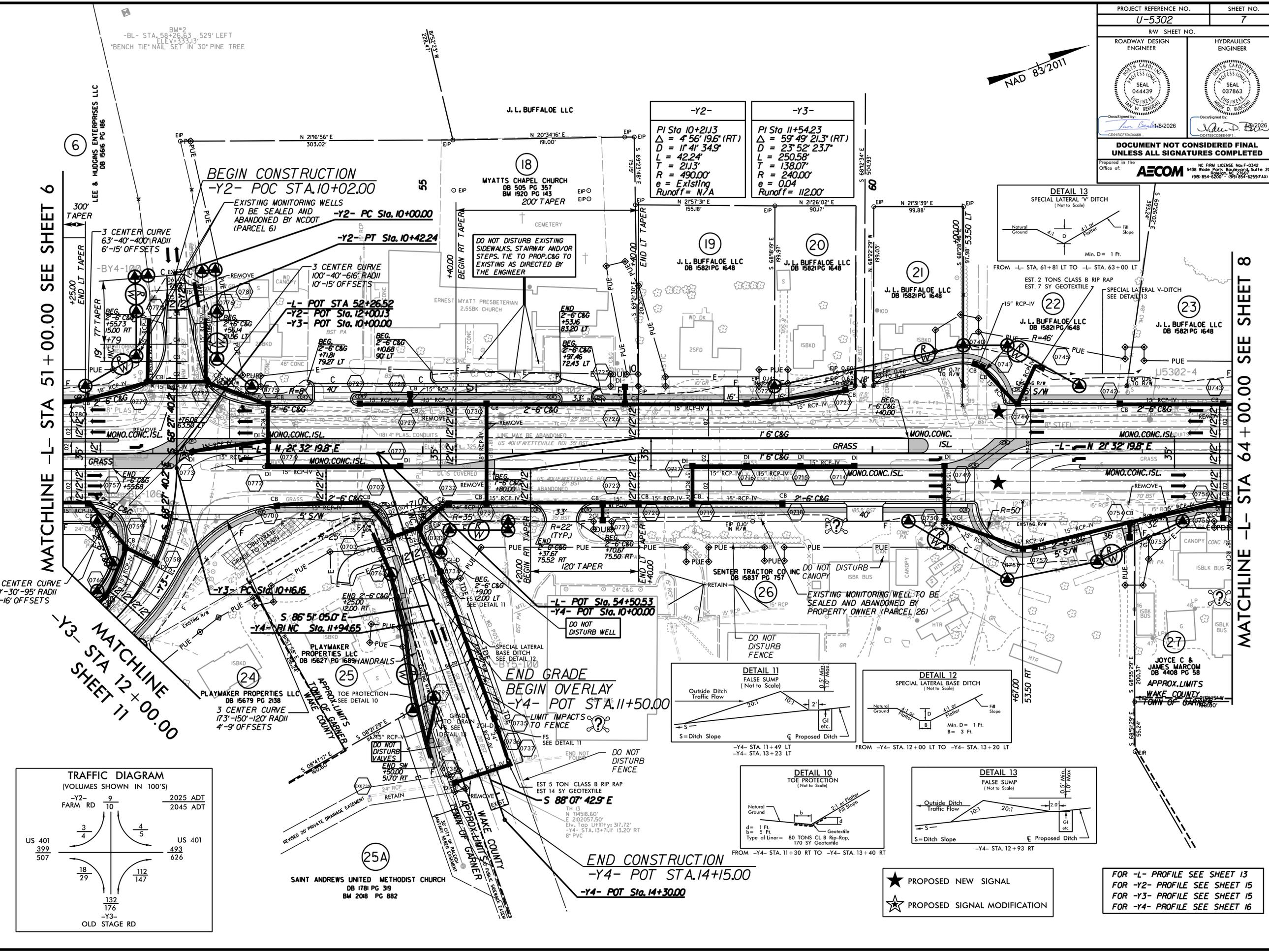
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PROJECT REFERENCE NO. U-5302	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p> <p>Prepared in the Office at: AECOM</p> <p>NC FIRM LICENSE No. F-0342 5438 Wood Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 FAX</p>	



MATCHLINE -L- STA 51+00.00 SEE SHEET 6

MATCHLINE -L- STA 64+00.00 SEE SHEET 8



REVISIONS
1/7/2026 em:na-pw.bentley.com\AECOM_USA_North_Carolina\Documents\60488049-U-5302-CAD\70-CAD\GIS\910-CAD\900-900-U-5302-rdy_psh_07.dgn

★ PROPOSED NEW SIGNAL
☆ PROPOSED SIGNAL MODIFICATION

FOR -L- PROFILE SEE SHEET 13
FOR -Y2- PROFILE SEE SHEET 15
FOR -Y3- PROFILE SEE SHEET 15
FOR -Y4- PROFILE SEE SHEET 16

PROJECT REFERENCE NO. U-5302		SHEET NO. 8	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 SEAL 044439 W. BESSIE 1/18/2026		 SEAL 037863 W. BESSIE 1/18/2026	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of: AECOM		NC FIRM LICENSE No. F-0342 5438 Wood Park Boulevard, Suite 200 Raleigh, NC 27617 (919) 854-6200 • (919) 854-6259 FAX	

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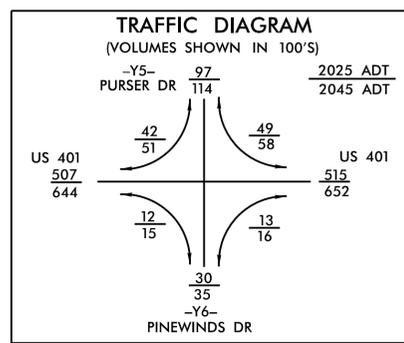
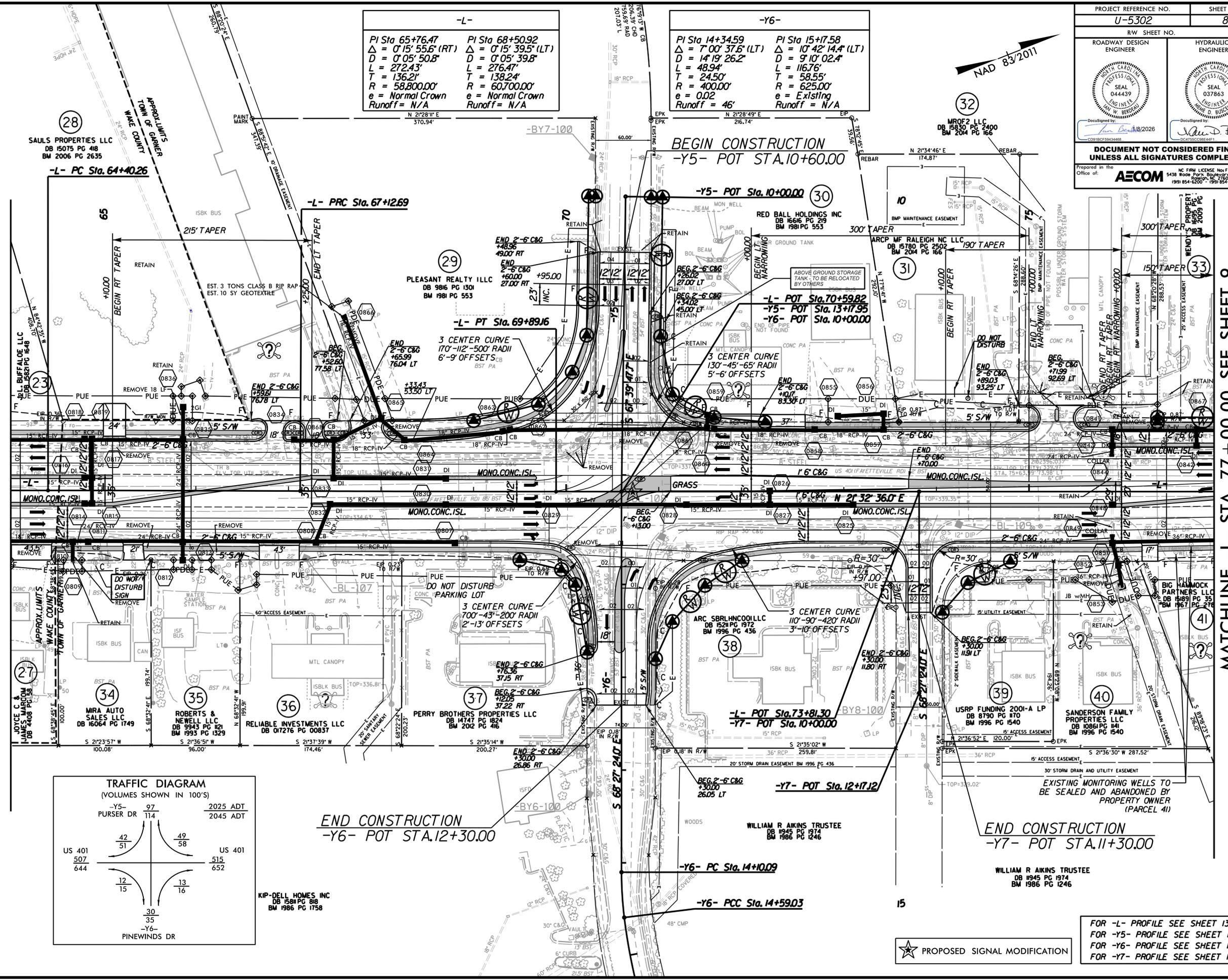
PI Sta 65+76.47 Δ = 0' 15" 55.6" (RT) D = 0' 05" 50.8" L = 272.43' T = 136.21' R = 58,800.00' e = Normal Crown Runoff = N/A	PI Sta 68+50.92 Δ = 0' 15" 39.5" (LT) D = 0' 05" 39.8" L = 276.47' T = 138.24' R = 60,700.00' e = Normal Crown Runoff = N/A
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-Y6-

PI Sta 14+34.59 Δ = 7' 00" 37.6" (LT) D = 14' 19" 26.2" L = 48.94' T = 24.50' R = 400.00' e = 0.02 Runoff = 46'	PI Sta 15+17.58 Δ = 10' 42" 14.4" (LT) D = 9' 10" 02.4" L = 116.76' T = 58.55' R = 625.00' e = Existing Runoff = N/A
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MATCHLINE -L- STA 64 + 00.00 SEE SHEET 7

MATCHLINE -L- STA 77 + 00.00 SEE SHEET 9



END CONSTRUCTION
-Y6- POT STA.12+30.00

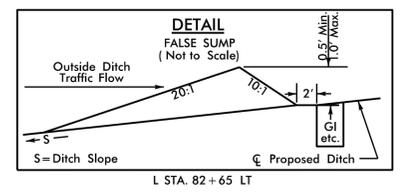
END CONSTRUCTION
-Y7- POT STA.11+30.00

FOR -L- PROFILE SEE SHEET 13
 FOR -Y5- PROFILE SEE SHEET 16
 FOR -Y6- PROFILE SEE SHEET 16
 FOR -Y7- PROFILE SEE SHEET 16

★ PROPOSED SIGNAL MODIFICATION

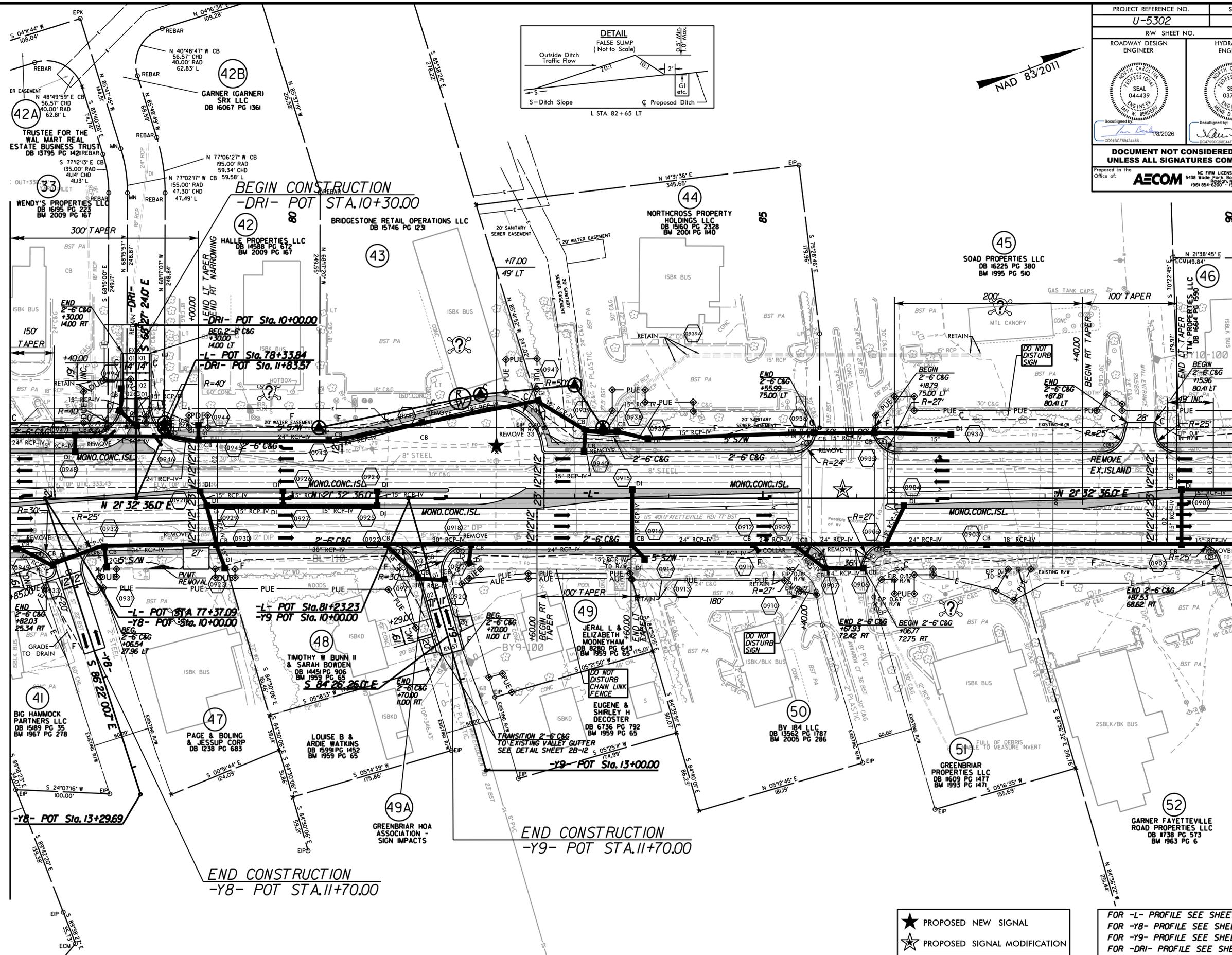
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 REVISIONS

PROJECT REFERENCE NO. U-5302	SHEET NO. 9
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p> <p>Prepared in the Office of: AECOM</p> <p>NC FIRM LICENSE No: F-0342 5438 Wood Park Boulevard, Suite 200 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259 (Fax)</p>	



MATCHLINE -L- STA 77 + 00.00 SEE SHEET 8

MATCHLINE -L- STA 90 + 00.00 SEE SHEET 10



- ★ PROPOSED NEW SIGNAL
- ☆ PROPOSED SIGNAL MODIFICATION

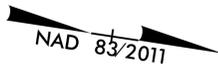
FOR -L- PROFILE SEE SHEET 14
FOR -Y8- PROFILE SEE SHEET 16
FOR -Y9- PROFILE SEE SHEET 16
FOR -DRI- PROFILE SEE SHEET 16

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 REVISIONS
 8/17/19

8.17.19

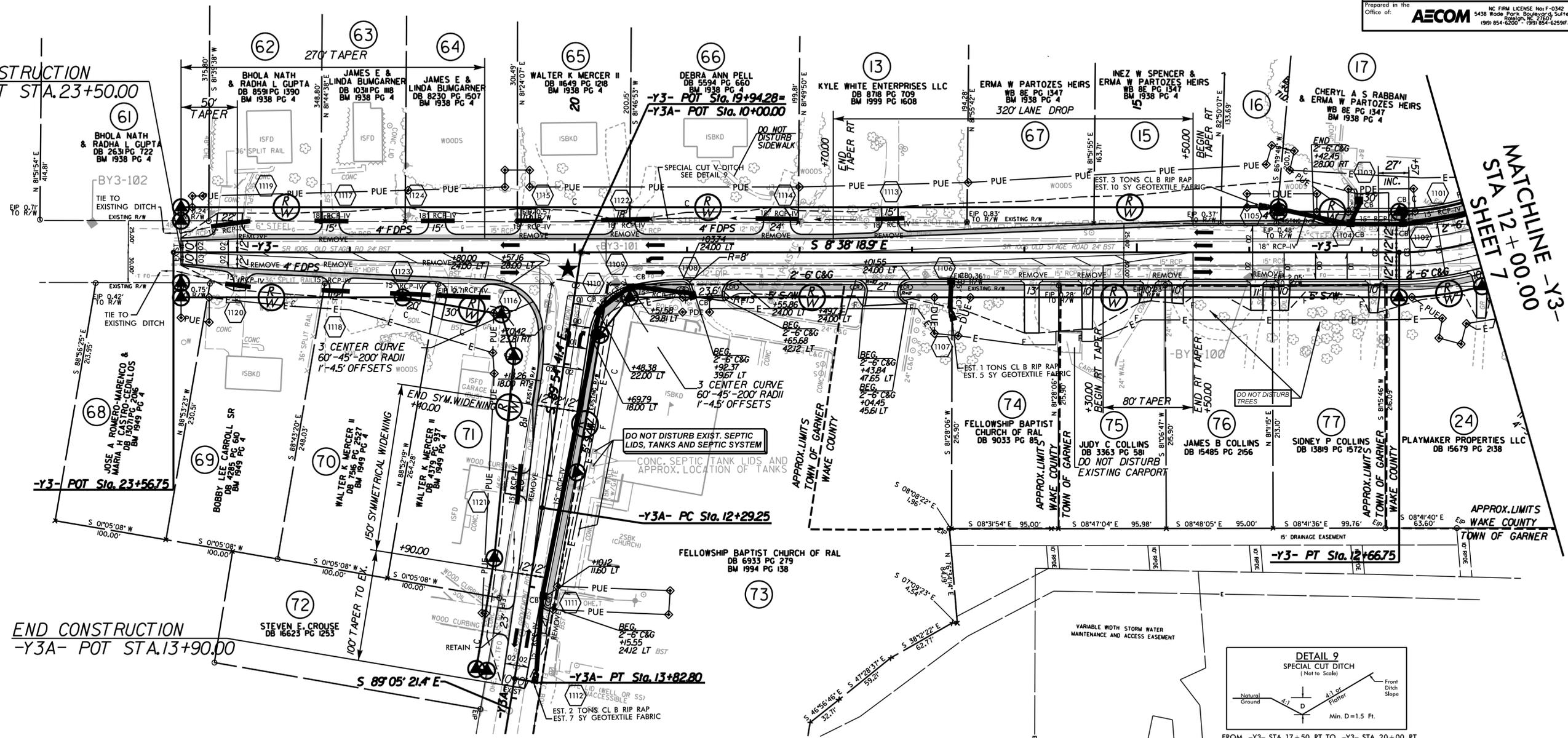
PROJECT REFERENCE NO. U-5302	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: <i>Tom Bentley</i> 08/20/2026	DocuSigned by: <i>Tom Bentley</i> 08/20/2026
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16 INEZ W SPENCER & ERMA W PARTOZES HEIRS
BM 1938 PG 4
WB 6E PG 1347

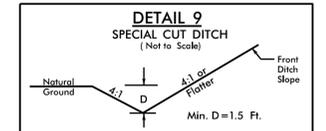


END CONSTRUCTION
-Y3- POT STA. 23+50.00

MATCHLINE -Y3-
STA 12+00.00
SHEET 7



END CONSTRUCTION
-Y3A- POT STA. 13+90.00



FROM -Y3- STA. 17+50 RT TO -Y3- STA. 20+00 RT

-Y3-	-Y3A-
PI Sta 11+54.23	PI Sta 13+06.03
$\Delta = 59^{\circ} 49' 21.3''$ (RT)	$\Delta = 0^{\circ} 49' 20.0''$ (RT)
$D = 23^{\circ} 52' 23.7''$	$D = 0^{\circ} 32' 07.7''$
$L = 250.58'$	$L = 153.55'$
$T = 138.07'$	$T = 76.78'$
$R = 240.00'$	$R = 10,700.00'$
$e = 0.04$	$e = NC$
Runoff = 112.00'	Runoff = N/A

★ PROPOSED NEW SIGNAL

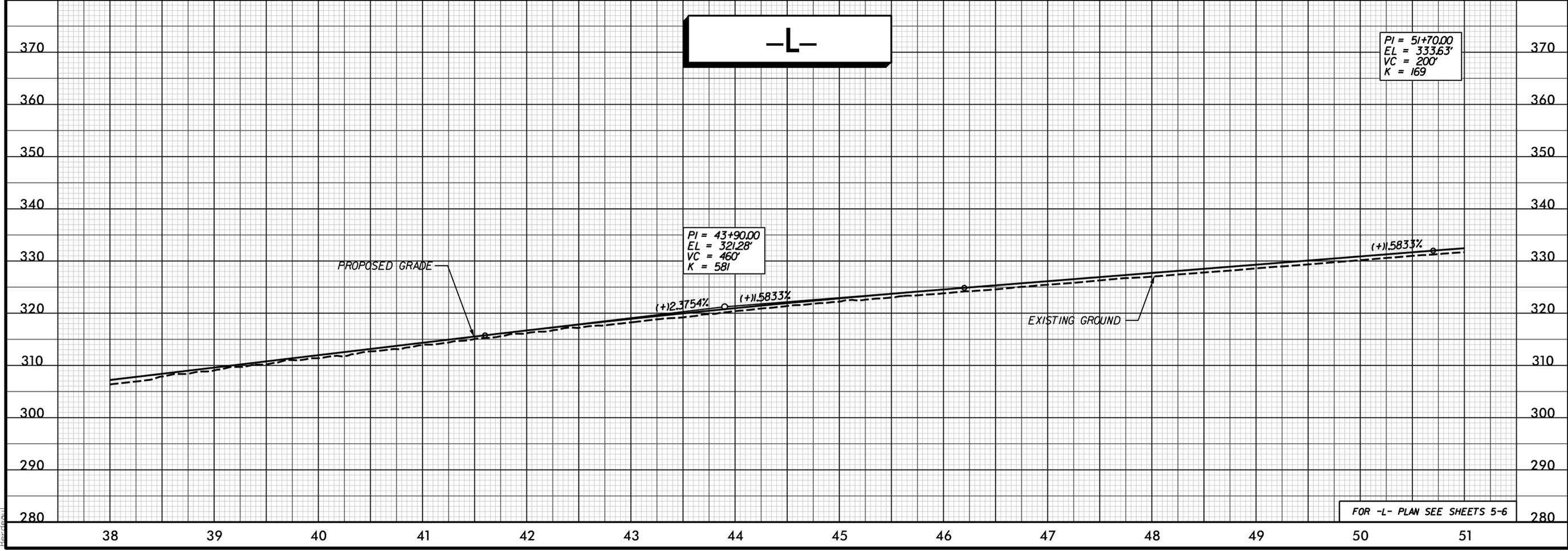
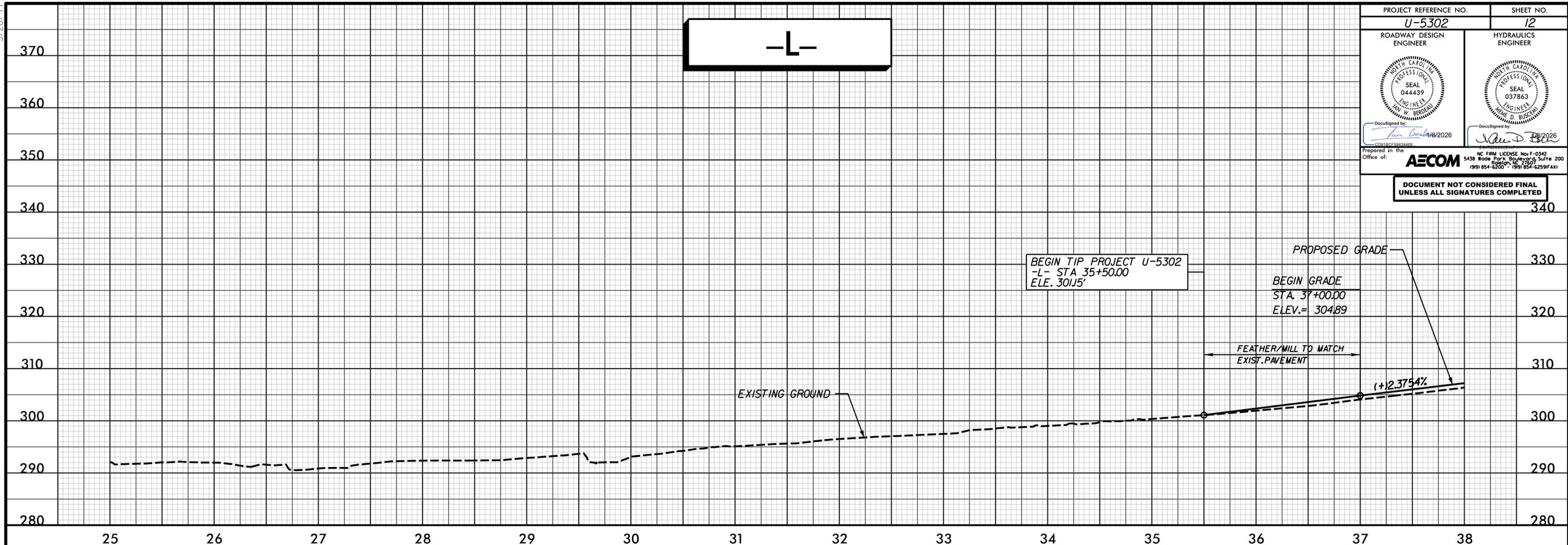
FOR -Y3- PROFILE SEE SHEET 15
FOR -Y3A- PROFILE SEE SHEET 16

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 REVISIONS

5/28/2026

PROJECT REFERENCE NO. U-5302	SHEET NO. 12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: <i>Tom Beck</i> 5/28/2026	DocuSigned by: <i>Alan D. Busby</i> 5/28/2026
AECOM Prepared in the Office of: NC FIRM LICENSE No. F-0342 5438 Rode Park, Boulevard Suite 200 Charlotte, NC 27267 (919) 854-6000 • (919) 854-6259 (FAX)	

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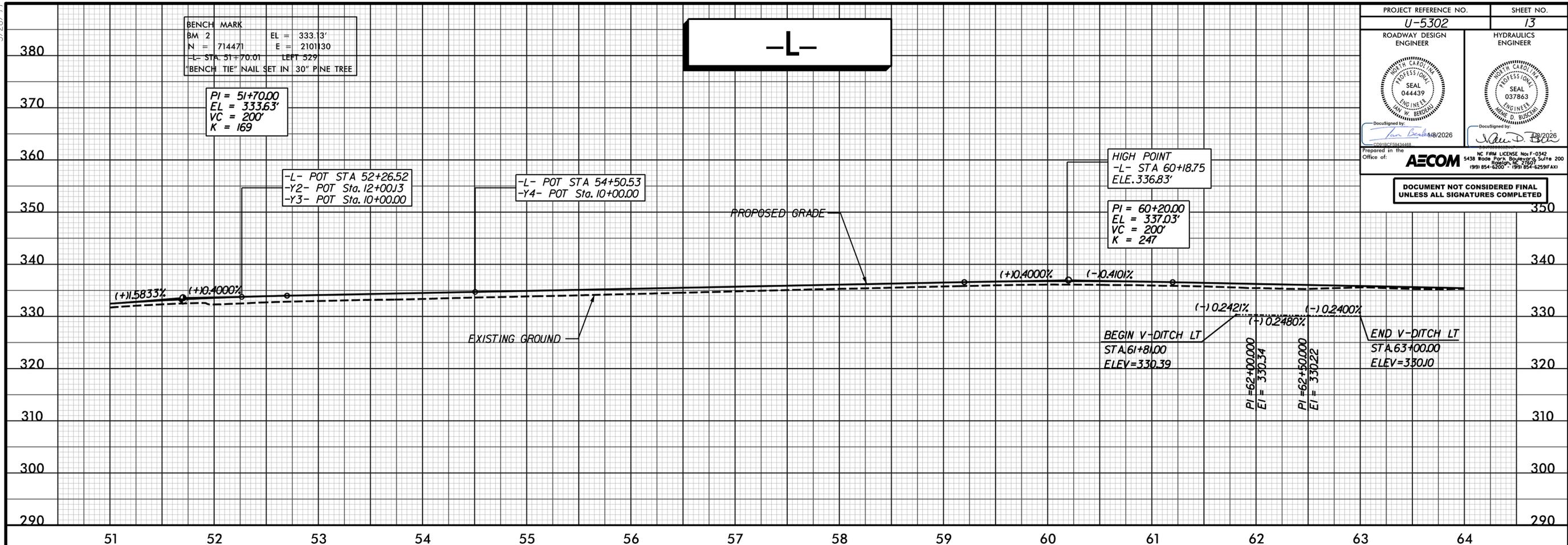


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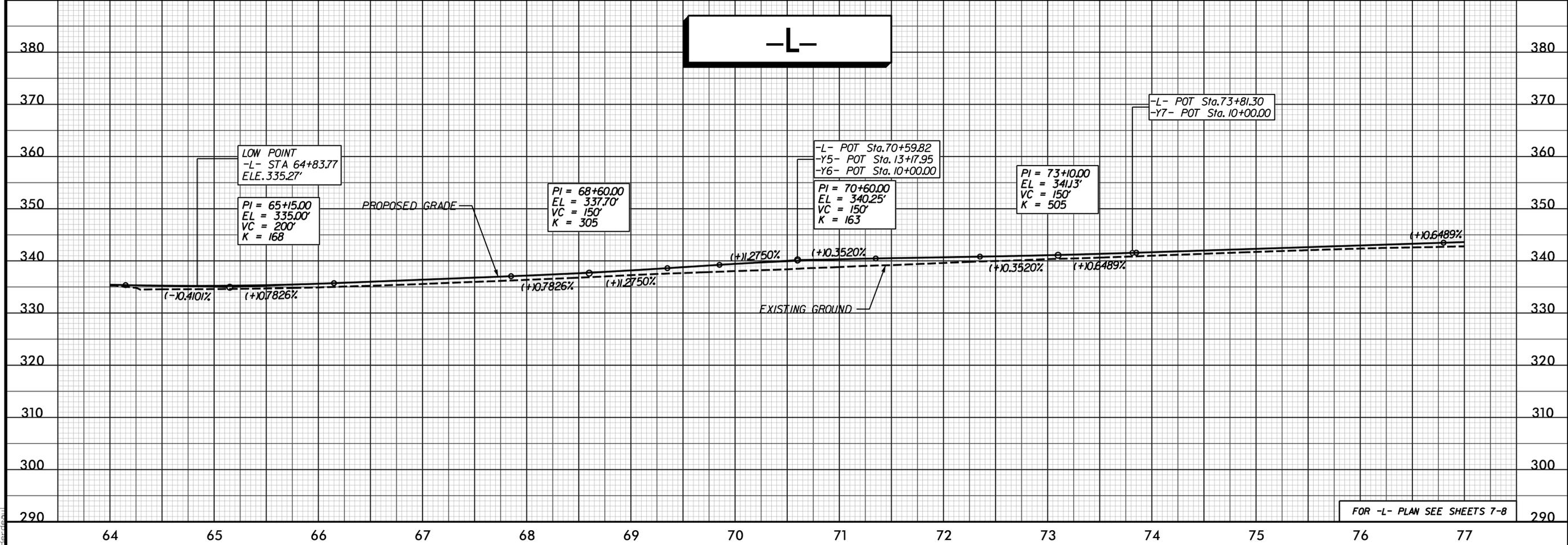
5/28/2026

PROJECT REFERENCE NO. U-5302	SHEET NO. 13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: <i>Jan B... 4/8/2026</i>	DocuSigned by: <i>... 4/8/2026</i>
AECOM Prepared in the Office of: NC FIRM LICENSE No. F-0342 5438 Rode Park, Boulevard, Suite 200 Charlotte, NC 28207 (919) 854-6000 • (919) 854-6259 FAX	

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4/1/2025
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FOR -L- PLAN SEE SHEETS 7-8