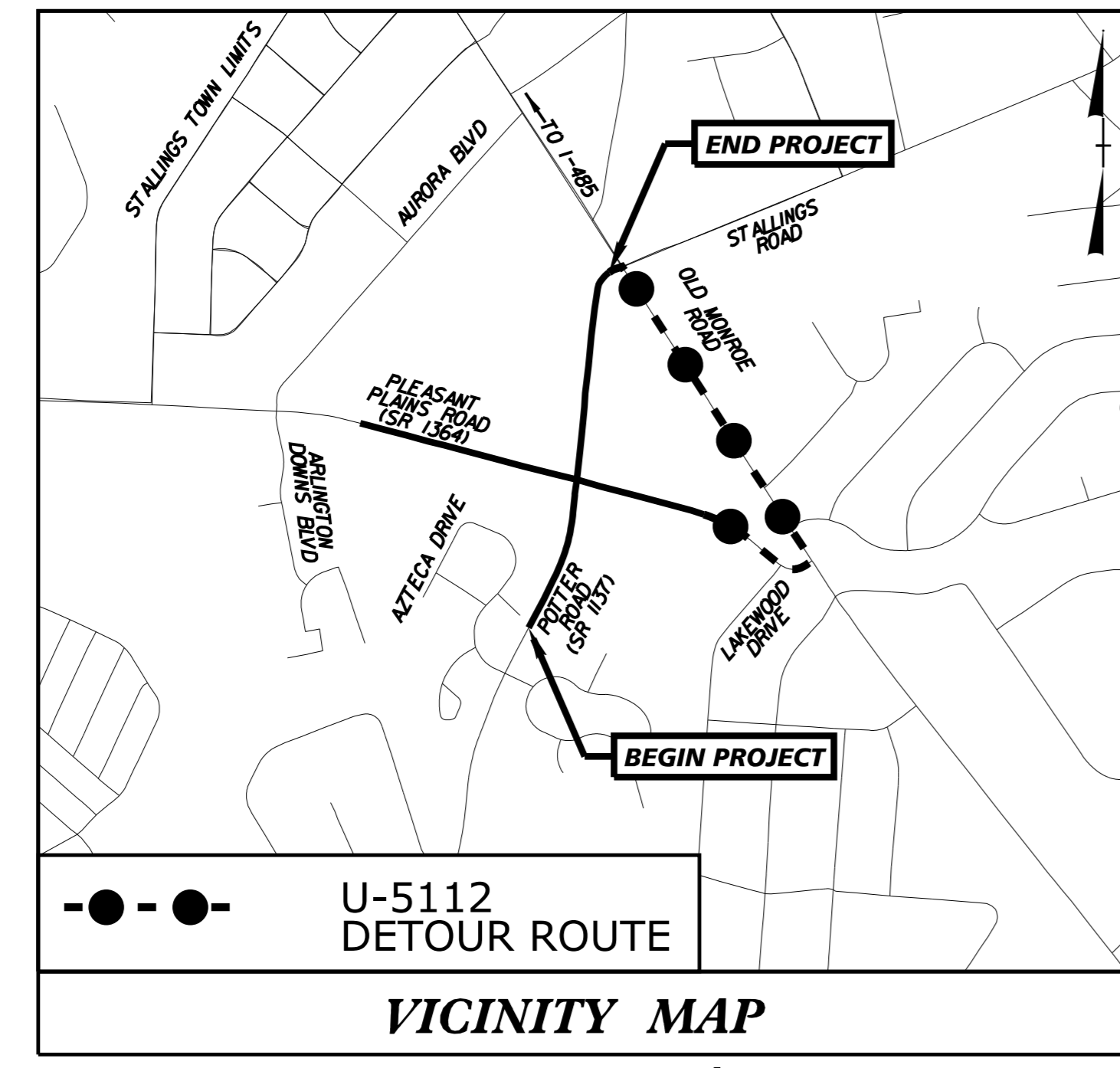


**TIP PROJECT: U-5112**

**CONTRACT: C204822**

SEE SHEET 1A FOR INDEX OF SHEETS  
SEE SHEET 1B FOR CONVENTIONAL SYMBOLS



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

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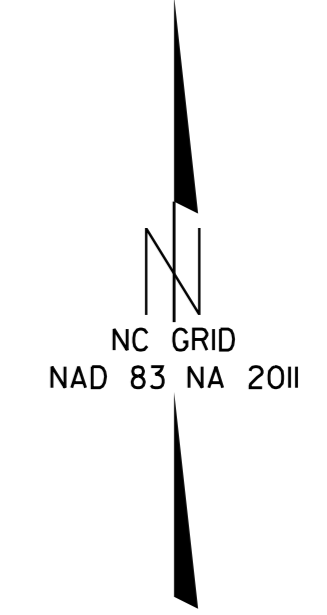
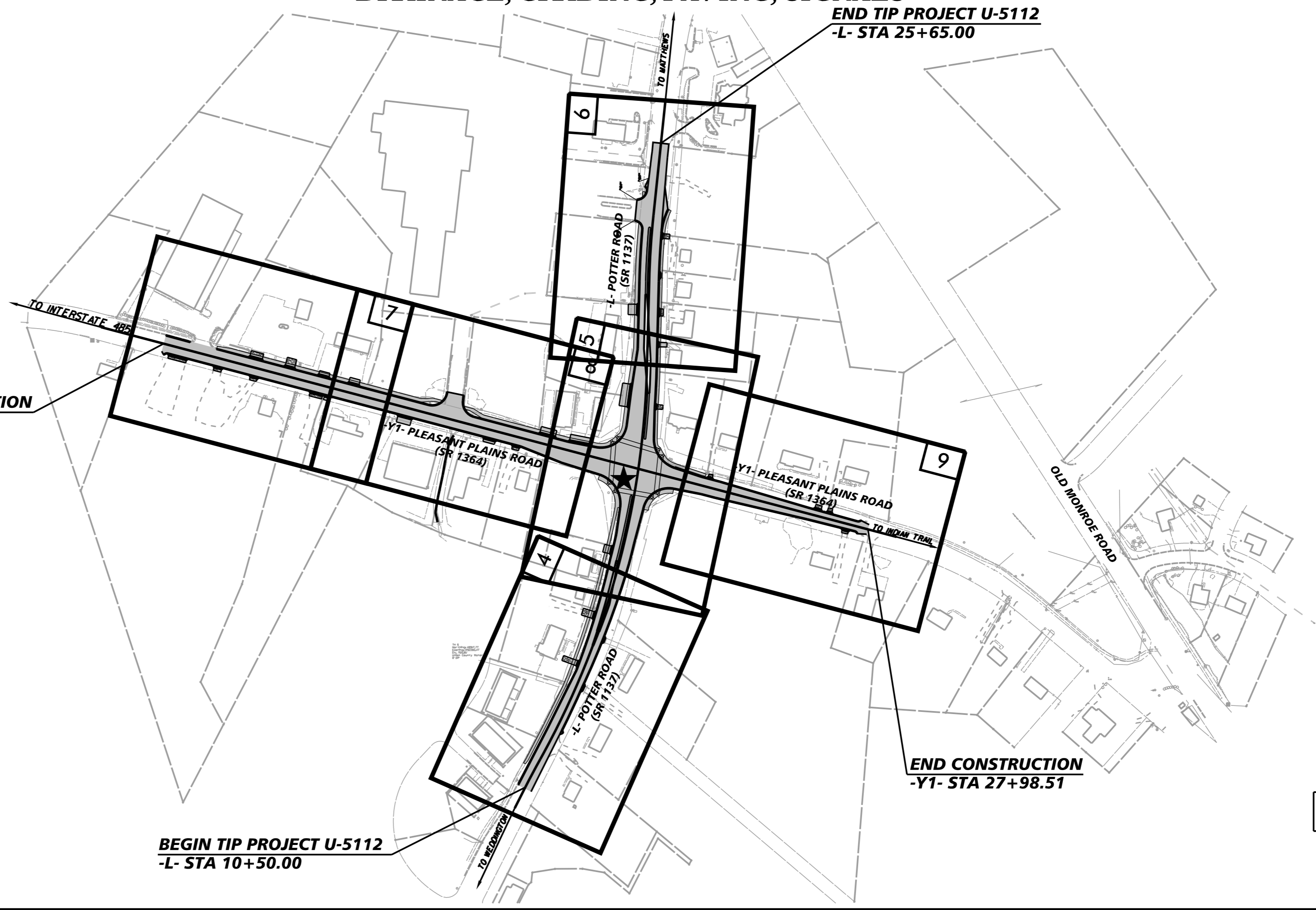
# UNION COUNTY

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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5112	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42374.1.2		PE	
42374.2.1	STPDA-1032(003)	ROW & UTIL	
42374.3.1	STPDA-1032(003)	CONST.	

**LOCATION:** SR 1364 (PLEASANT PLAINS ROAD) AT SR 1357 (POTTER ROAD) IN STALLINGS. CONSTRUCT INTERSECTION IMPROVEMENTS INCLUDING LEFT TURN LANES AND MODIFICATION OF TRAFFIC SIGNAL.

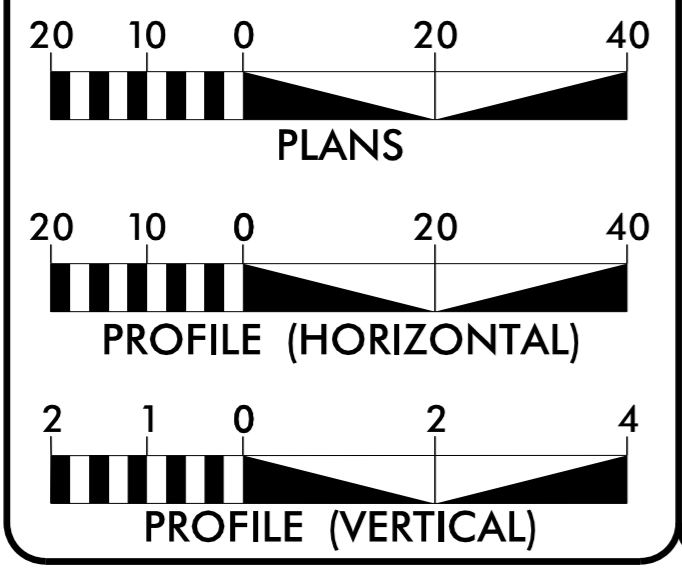
**TYPE OF WORK:** DRAINAGE, GRADING, PAVING, SIGNALS



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

★ TRAFFIC SIGNAL

**GRAPHIC SCALES**



**DESIGN DATA**

POTTER ROAD:  
ADT 2023 = 18100 VPD  
ADT 2043 = 26900 VPD  
K = NA  
D = NA  
T = NA  
V = 35 MPH  
PLEASANT PLAINS ROAD:  
FUNCTIONAL: MINOR  
CLASSIFICATION: COLLECTOR  
POTTER ROAD:  
FUNCTIONAL: MAJOR  
CLASSIFICATION: COLLECTOR  
REGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT U-5112 = 0.287 MILES  
TOTAL LENGTH TIP PROJECT U-5112 = 0.287 MILES

PLANS PREPARED FOR THE NCDOT BY:

**Kimley»Horn**  
NC LICENSE #0102  
200 SOUTH TRYON STREET, SUITE 200  
CHARLOTTE, NORTH CAROLINA 28202  
PHONE: (704) 333-5131

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

DECEMBER 19, 2018

LETTING DATE:

MARCH 19, 2024

FRANK MASTERSON, P.E.  
PROJECT ENGINEER

ANDREW WEEKS, E.I.  
PROJECT DESIGN ENGINEER

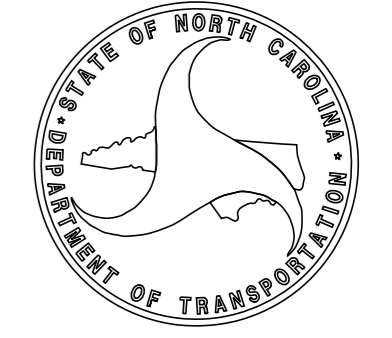
TRAVIS PRESLAR, P.E.  
DM-STIP PROJECT MANAGER  
NCDOT HIGHWAY DIVISION 10

HYDRAULICS ENGINEER

DocuSigned by:  
*Frank Masterson*  
FRANK MASTERSON, P.E.  
2/12/2024

ROADWAY DESIGN ENGINEER

DocuSigned by:  
*Frank Masterson*  
FRANK MASTERSON, P.E.  
2/12/2024



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GENERAL NOTES: 2024 SPECIFICATIONS  
EFFECTIVE: 01-16-2024  
REVISED:

**GRADING AND SURFACING OR RESURFACING AND WIDENING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

**CLEARING:**

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

**SUPERELEVATION:**

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

**SIDE ROADS:**

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

**UNDERDRAINS:**

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

**DRIVEWAYS:**

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

**STREET TURNOUT:**

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADI NOTED ON PLANS.

**TEMPORARY SHORING:**

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS 'EXTRA WORK' IN ACCORDANCE WITH SECTION 104-7.

**SUBSURFACE PLANS:**

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

**UTILITIES:**

UTILITY OWNERS ON THIS PROJECT ARE Duke Energy, Windstream  
Union County Water, Piedmont Natural Gas, Sagra/Spirit, MCI/ Verizon  
Charlotte/ Spectrum, AT&T/ SourceOne Corp.,

**CURB RAMPS**

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.06.

**2024 ROADWAY ENGLISH STANDARD DRAWINGS**

The following Roadway Standards as appear in 'Roadway Standard Drawings' Contracts Standards and Development Unit - N.C. Department of Transportation - Raleigh, N.C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO. TITLE

**DIVISION 2 - EARTHWORK**

200.02 Method of Clearing - Method II  
225.02 Guide for Grading Subgrade - Secondary and Local  
225.04 Method of Obtaining Superelevation - Two Lane Pavement

**DIVISION 3 - PIPE CULVERTS**

300.01 Method of Pipe Installation  
310.10 Driveway Pipe Construction

**DIVISION 6 - ASPHALT BASES AND PAVEMENTS**

654.01 Pavement Repairs

**DIVISION 8 - INCIDENTALS**

815.03 Pipe Underdrain and Blind Drain  
840.00 Concrete Base Pad for Drainage Structures  
840.02 Concrete Catch Basin - 12" thru 54" Pipe  
840.03 Frame, Grates and Hood - for Use on Standard Catch Basin  
840.14 Concrete Drop Inlet - 12" thru 30" Pipe  
840.15 Brick Drop Inlet - 12" thru 30" Pipe  
840.16 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15  
840.22 Frames and Wide Slot Sag Grates  
840.25 Anchorage for Frames - Brick or Concrete or Precast  
840.31 Concrete Junction Box - 12" thru 66" Pipe  
840.32 Brick Junction Box - 12" thru 66" Pipe  
840.34 Traffic Bearing Junction Box - for Use with Pipes 42" and Under  
840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates  
840.45 Precast Drainage Structure  
840.46 Traffic Bearing Precast Drainage Structure  
840.54 Manhole Frame and Cover  
840.66 Drainage Structure Steps  
840.72 Pipe Collar  
846.01 Concrete Curb, Gutter and Curb & Gutter  
848.01 Concrete Sidewalk  
848.03 Driveway Turnout - Drop Curb Type  
848.04 Street Turnout  
848.06 Curb Ramp  
850.01 Concrete Paved Ditches  
876.02 Guide for Rip Rap at Pipe Outlets  
876.04 Drainage Ditches with Class 'B' Rip Rap

EFF. 01-16-2024  
REV.

U-5112  
UNION COUNTY

**INDEX OF SHEETS**

**SHEET NUMBER**

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IA  
IB  
2A-1 THRU 2A-3  
2B-1  
2C-1  
2C-2 THRU 2C-3  
2D-1  
3B-1  
3D-1 THRU 3D-3  
4 THRU 9  
10 THRU 13  
RW02C-1 THRU RW02C-4  
TMP-1 THRU TMP-8  
PMP-1 THRU PMP-7  
EC-1 THRU EC-7  
SIGN-1 THRU SIGN-8  
SIG-1 THRU SIG-6, I  
SIG.M-1 THRU SIG.M-9  
UC-1 THRU UC-14  
UO-1 THRU UO-7  
X-0  
X-1A  
X-1 THRU X-19

**SHEET**

TITLE SHEET  
GENERAL NOTES, LIST OF ROADWAY STANDARD DRAWINGS  
CONVENTIONAL SYMBOLS SHEET  
TYPICAL SECTIONS AND PAVEMENT SCHEDULE  
INTERSECTION DETAIL  
CURB TRANSITION DETAIL  
DETAILS  
DITCH DETAILS  
SUMMARY OF EARTHWORK, REMOVAL OF EXISTING ASPHALT PAVEMENT  
SUMMARY OF DRAINAGE QUANTITIES  
PLAN SHEETS  
PROFILE SHEETS  
SURVEY CONTROL SHEETS  
TRANSPORTATION MANAGEMENT PLANS  
PAVEMENT MARKING PLANS  
EROSION CONTROL PLANS  
SIGNING PLAN  
SIGNAL AND COMMUNICATION PLANS  
METAL POLE PLANS  
UTILITY CONSTRUCTION PLANS  
UTILITIES BY OTHERS PLANS  
CROSS-SECTION INDEX  
CROSS-SECTION SUMMARY SHEETS  
CROSS-SECTIONS SHEETS

REVISIONS

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1/4/2024

Note: Not to Scale

# CONVENTIONAL PLAN SHEET SYMBOLS

## 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	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
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	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
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	
Single Tree	
Single Shrub	
Hedge	

## VEGETATION:

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	
End of Information	

AATUR

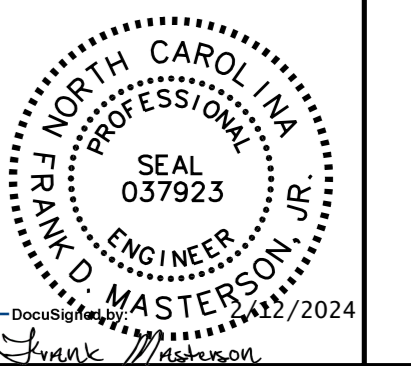
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REVISIONS

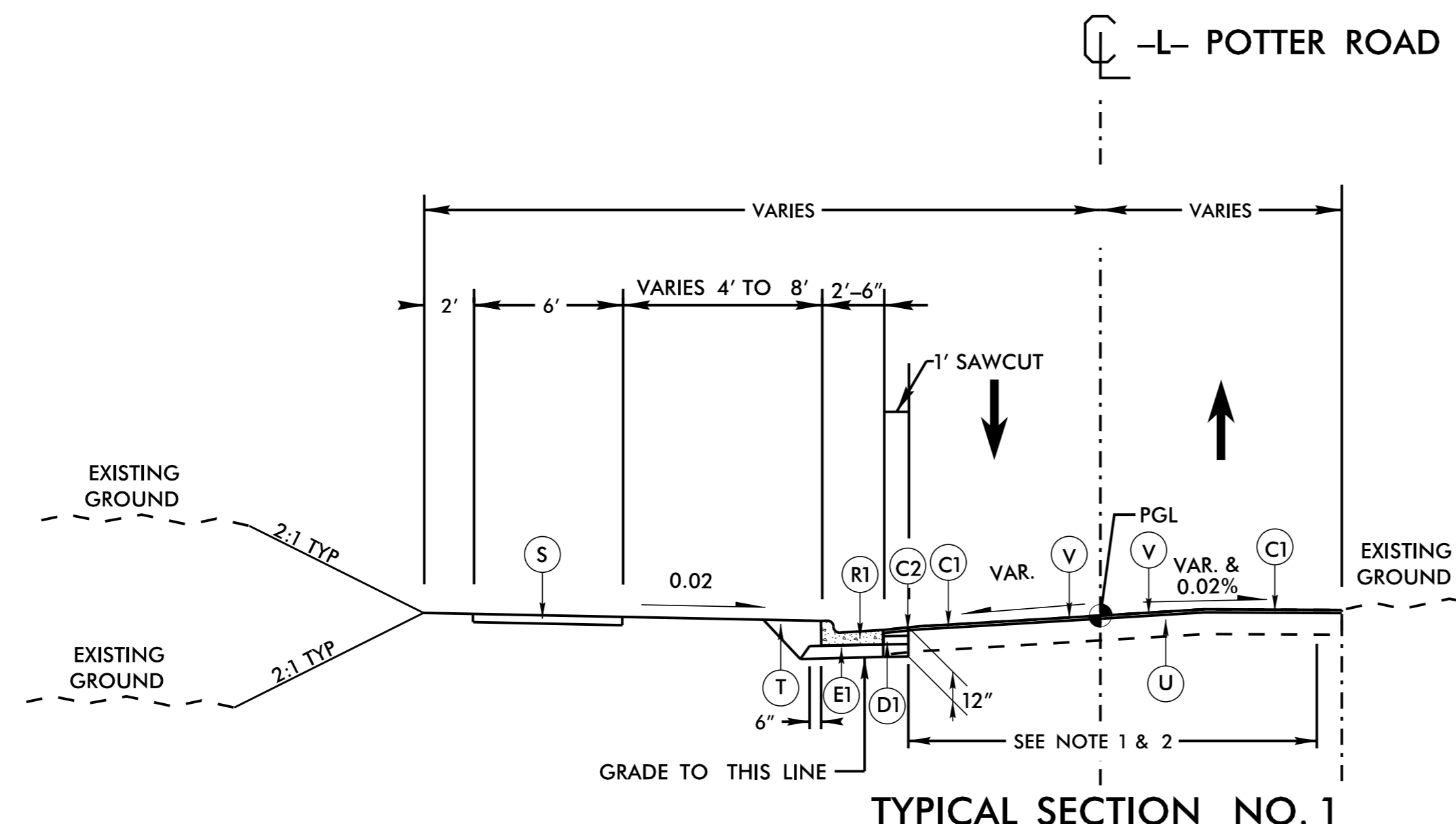
09/10/2021

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1/3/2024

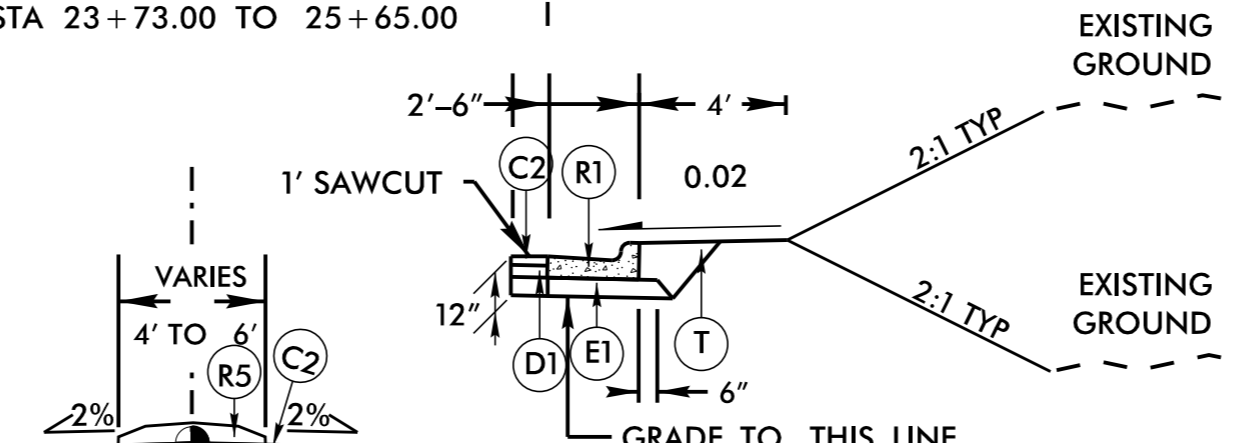


**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



**TYPICAL SECTION NO. 1**

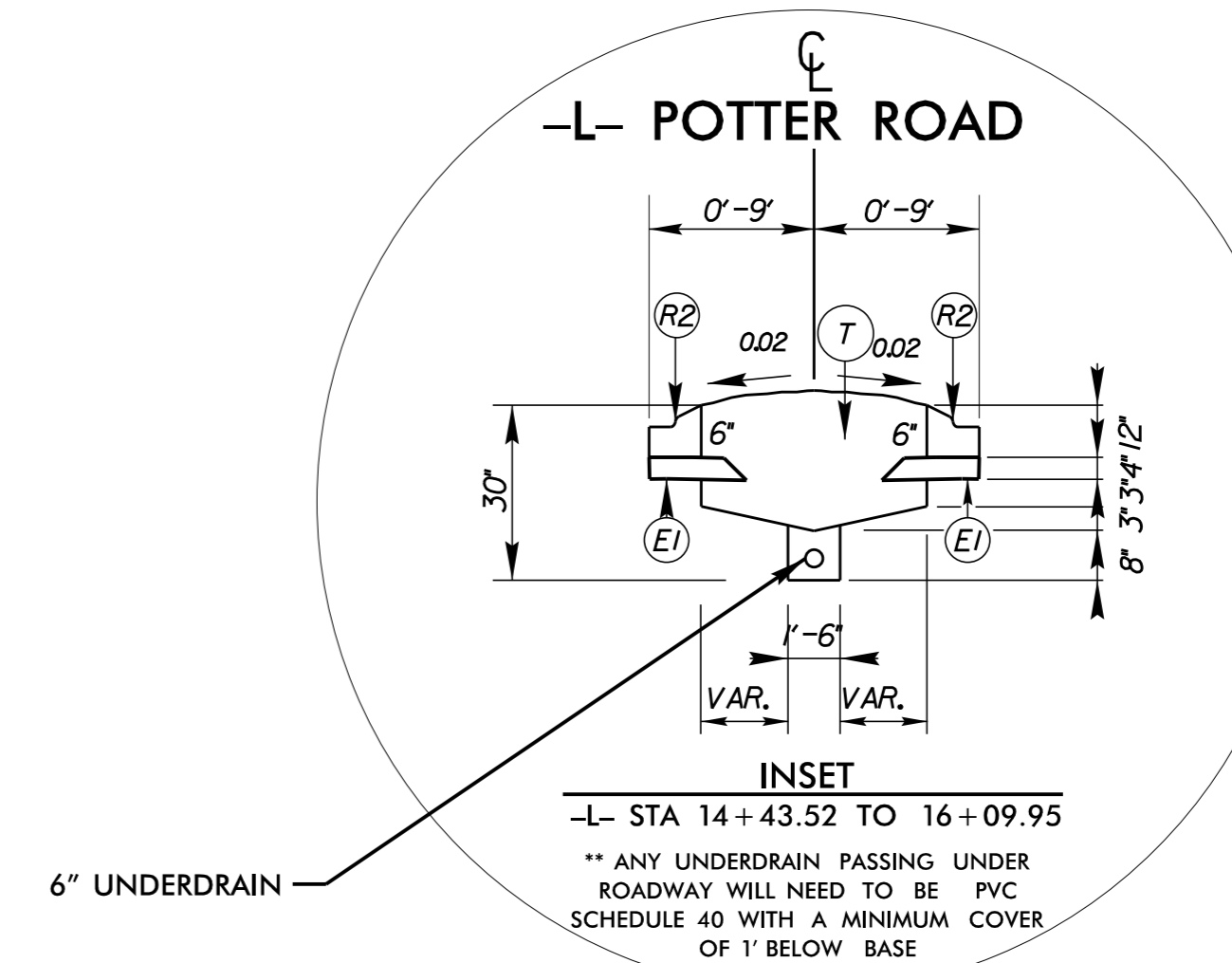
-L- STA 10+53.16 TO 14+08.50  
-L- STA 23+73.00 TO 25+65.00



**TYPICAL SECTION NO. 1B**

**TYPICAL SECTION NO. 1C**

-L- STA 14+08.28 TO 14+43.52



**INSET**

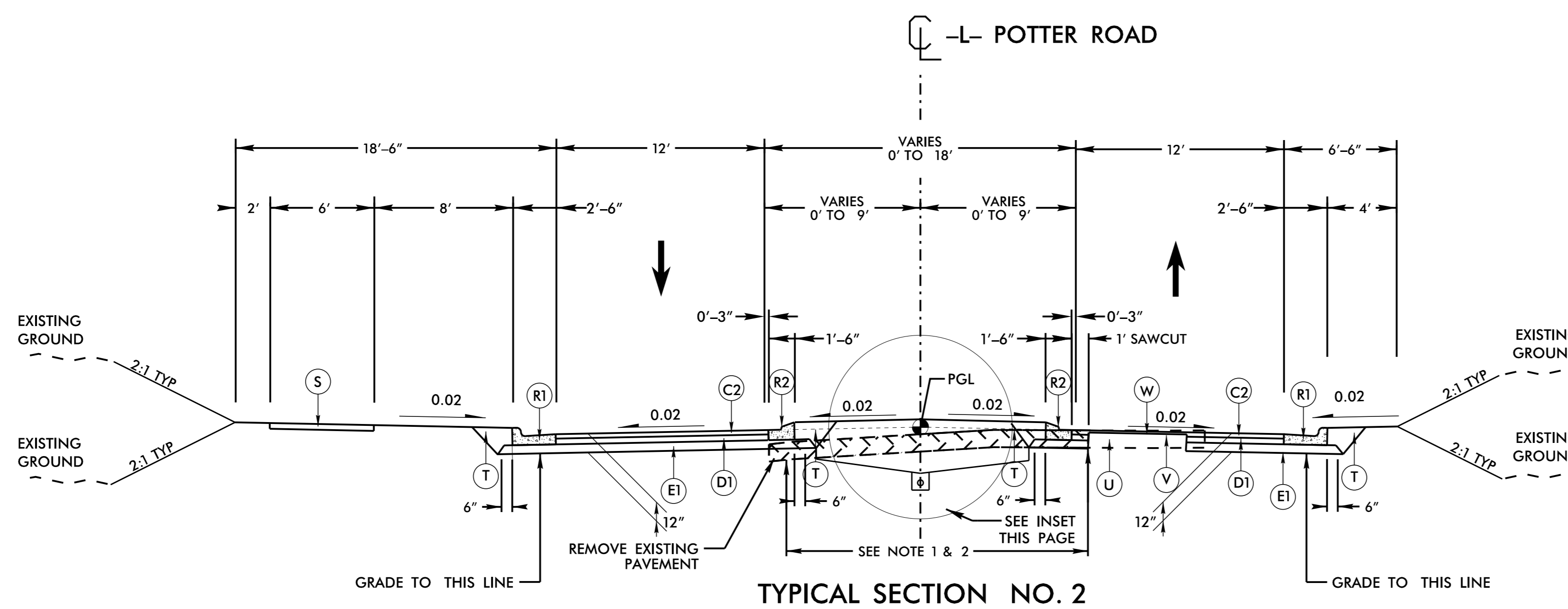
-L- STA 14+43.52 TO 16+09.95  
\*\* ANY UNDERDRAIN PASSING UNDER ROADWAY WILL NEED TO BE PVC SCHEDULE 40 WITH A MINIMUM COVER OF 1' BELOW BASE

- NOTES:**
1. SEE PLANS FOR EXISTING PAVEMENT LOCATIONS.
  2. SAWCUT EXISTING PAVEMENT TO PROVIDE 1' MINIMUM FULL DEPTH PAVEMENT.
  3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
  4. MILL EXISTING ASPHALT PAVEMENT TO A MAX. DEPTH OF 1.5"

REVISIONS

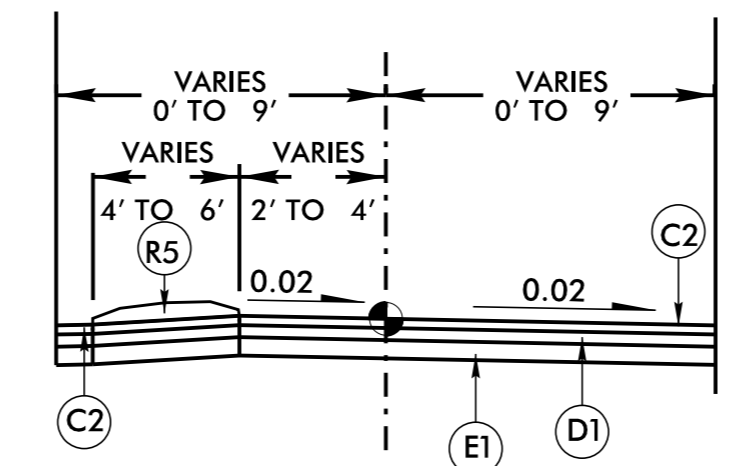
**FINAL PAVEMENT SCHEDULE**

A	PROPOSED APPROX. 6" CONCRETE DRIVEWAY, CLASS A
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1.5" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YARD.
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YARD IN ONE LAYER.
E2	PROP. APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YARD IN ONE LAYER.
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH IN ONE LIFT. NO RESTRICTION ON TOTAL DEPTH.
R1	2'-6" CONCRETE CURB AND GUTTER [NCDOT STD. 846.01]
R2	1'-6" CONCRETE CURB AND GUTTER [NCDOT STD. 846.01]
R5	5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED) [SEE NCDOT STD. 852.01]
S	4" CONCRETE SIDEWALK [NCDOT STD. 848.01]
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
V2	INCIDENTAL MILLING
W	ASPHALT WEDGING [SEE DETAIL SHEET 2A-3]



**TYPICAL SECTION NO. 2**

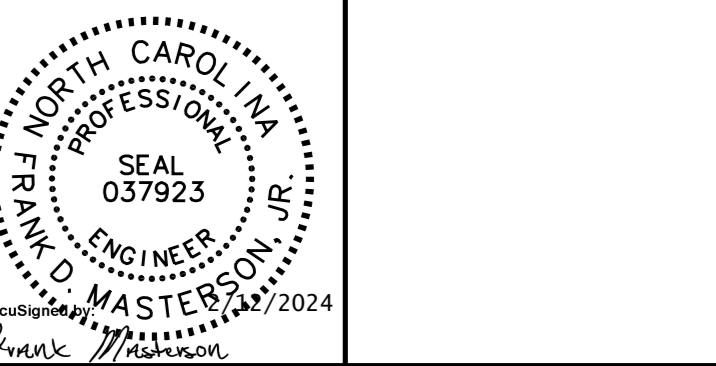
-L- STA 14+43.52 TO 16+10.00



**TYPICAL SECTION NO. 2B**

-L- STA 16+10.00 TO 17+62.01

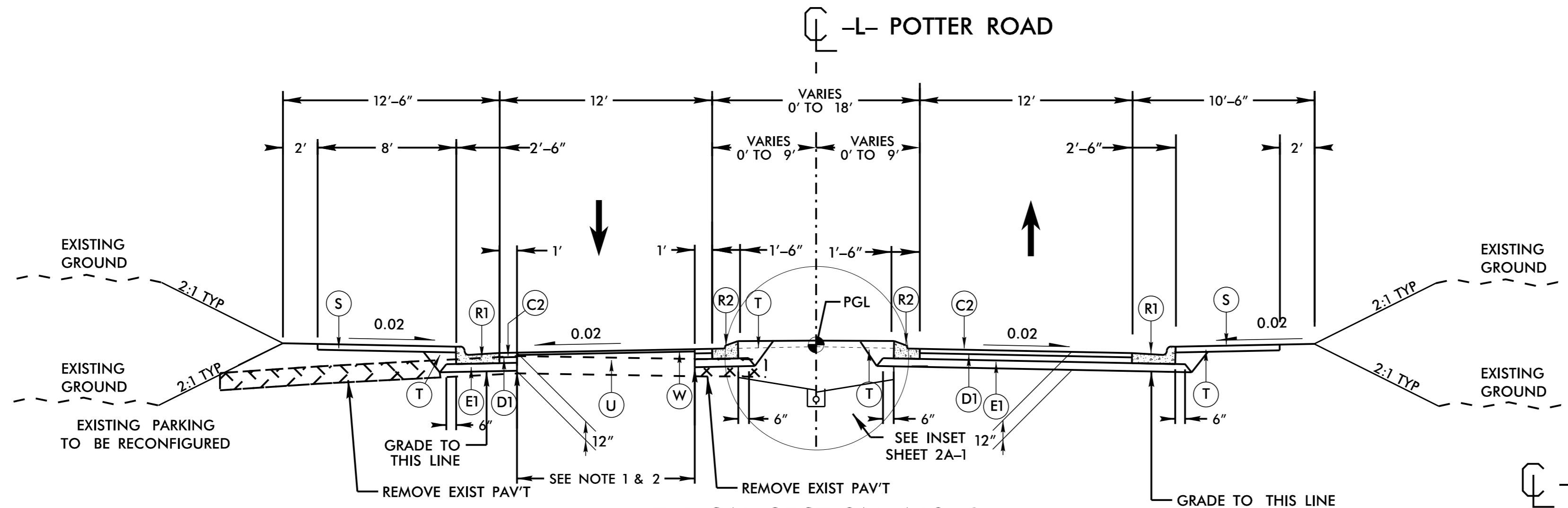
K:\CHL\_PRJ\01036720 - U-5112 (P3 Intersections)\Roadway\Pro\U-5112\_rdy\_1yp.dgn 1/23/2024



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

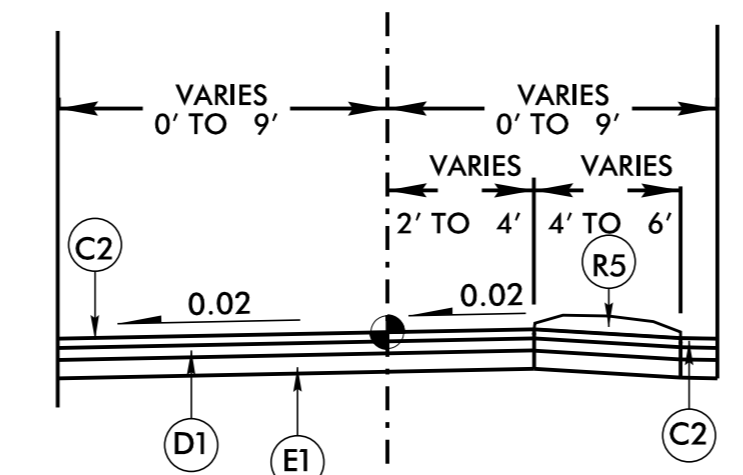
**NOTES:**

1. SEE PLANS FOR EXISTING PAVEMENT LOCATIONS.
2. SAWCUT EXISTING PAVEMENT TO PROVIDE 1' MINIMUM FULL DEPTH PAVEMENT.
3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
4. MILL EXISTING ASPHALT PAVEMENT TO A DEPTH THAT ALLOWS THE MINIMUM SURFACE COURSE DEPTH.



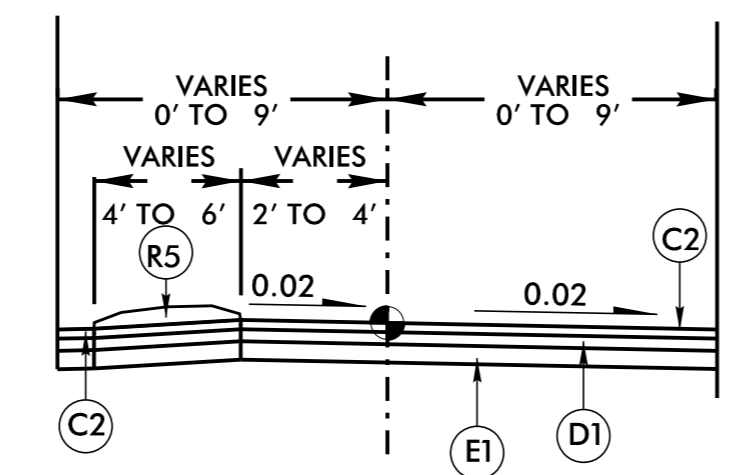
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-L- STA 18+92.77 TO 23+73.00



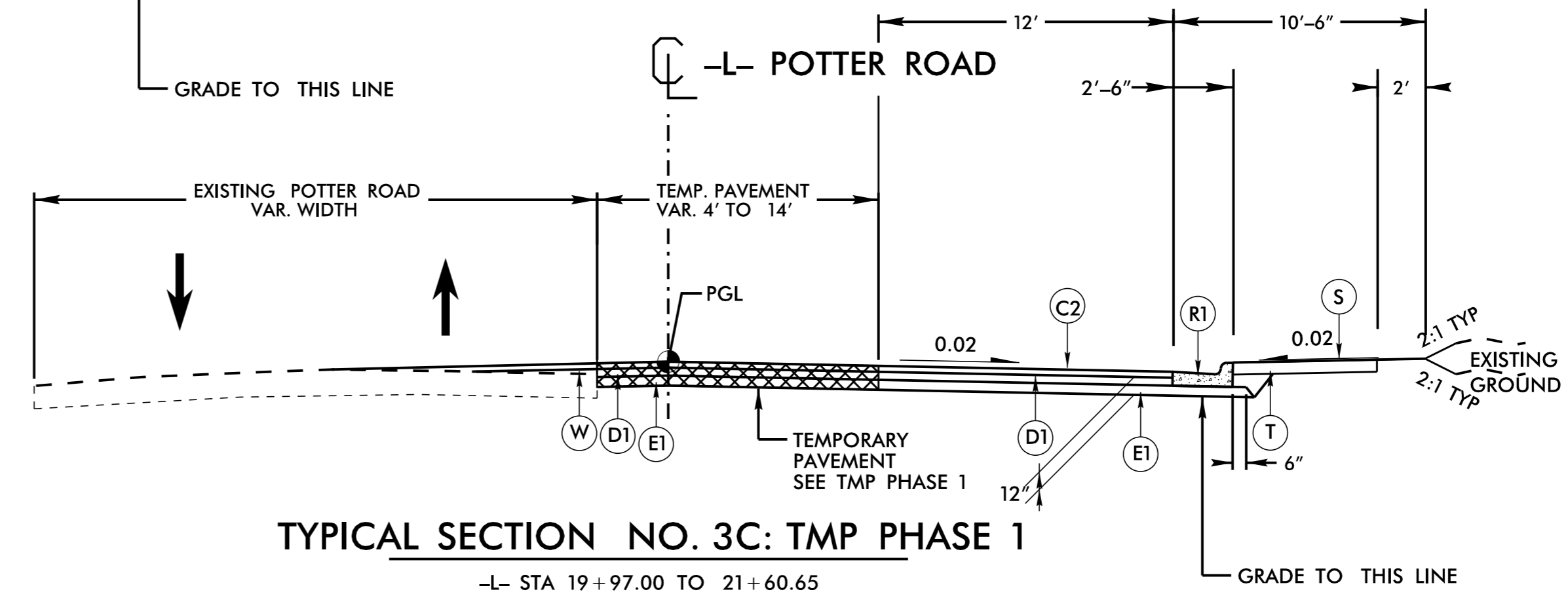
**TYPICAL SECTION NO. 3A**

-L- STA 18+92.77 TO 19+97.00



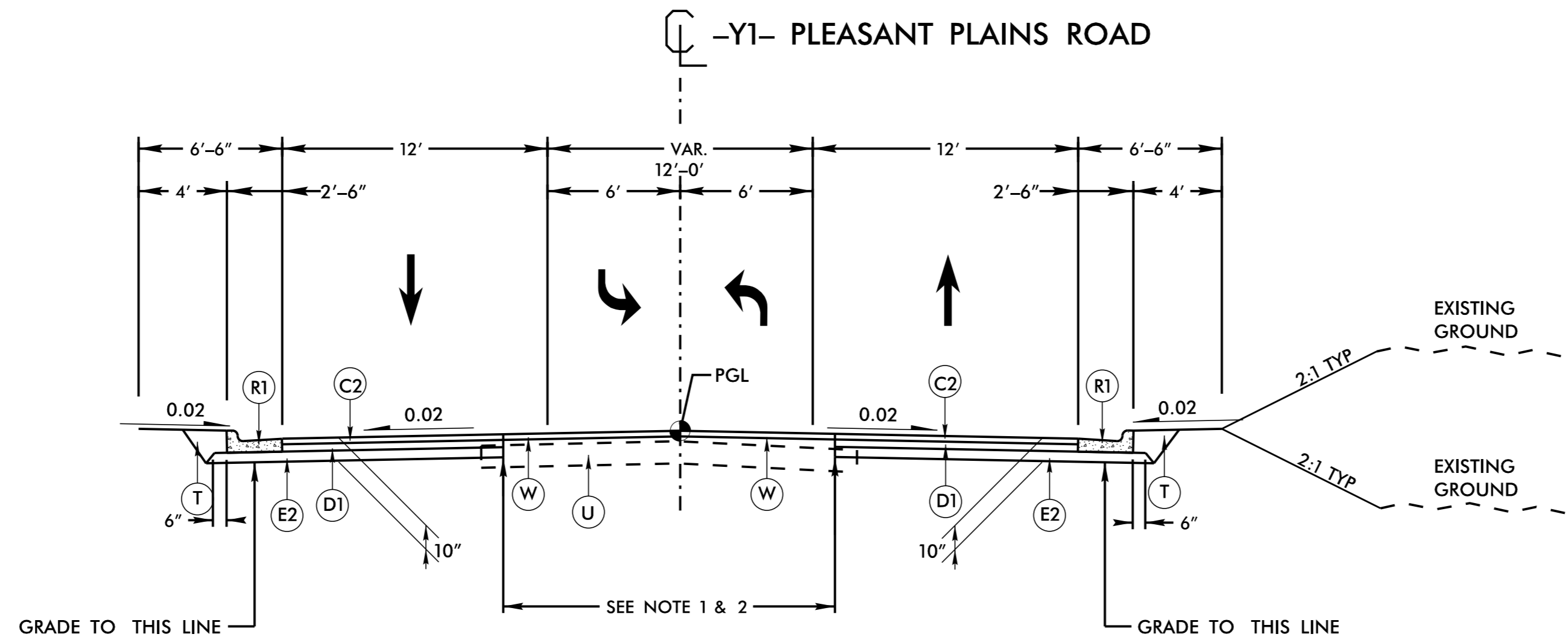
**TYPICAL SECTION NO. 3B**

-L- STA 22+21.00 TO 23+71.00



**TYPICAL SECTION NO. 3C: TMP PHASE 1**

-L- STA 19+97.00 TO 21+60.65



**TYPICAL SECTION NO. 4**

-Y1- STA 11+47.00 TO 12+65.86  
-Y1- STA 23+39.45 TO 27+98.51

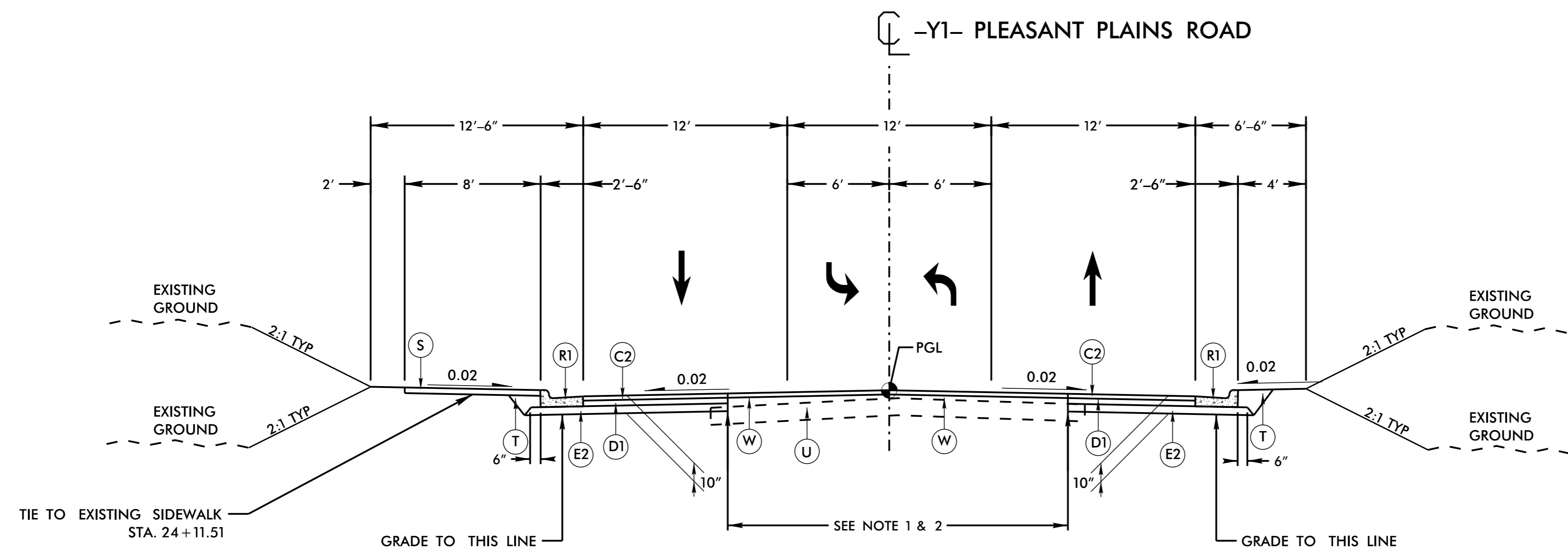
**FINAL PAVEMENT SCHEDULE**

A	PROPOSED APPROX. 6" CONCRETE DRIVEWAY, CLASS A
C1	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B
C2	3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B
C3	VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B
D1	4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C
D3	VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C
E1	5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C
E2	3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER
R2	1'-6" CONCRETE CURB AND GUTTER
R5	5" MONOLITHIC CONCRETE ISLAND
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	ASPHALT MILLING (1.5 INCHES)
V2	INCIDENTAL MILLING
W	ASPHALT WEDGING [SEE DETAIL SHEET 2A-3]

REVISIONS

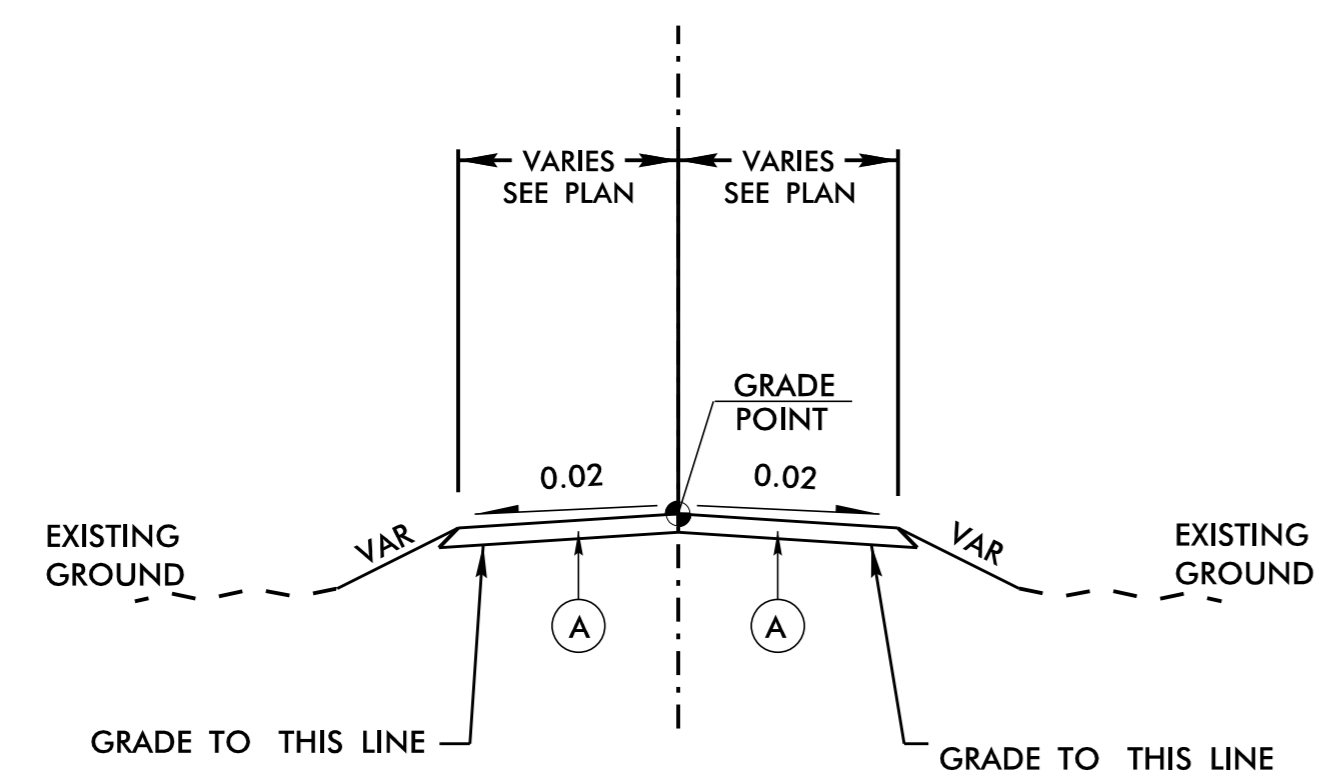
K:\CHL\_PRJ\01036720 - U-5112 (P3) Intersection\Roadway\Pro\U-5112\_rdy\_1typ.dgn

1/5/2024



**TYPICAL SECTION NO. 5**

-Y1- STA 12+65.86 TO 22+26.42  
-Y1- STA 22+83.76 TO 23+39.45



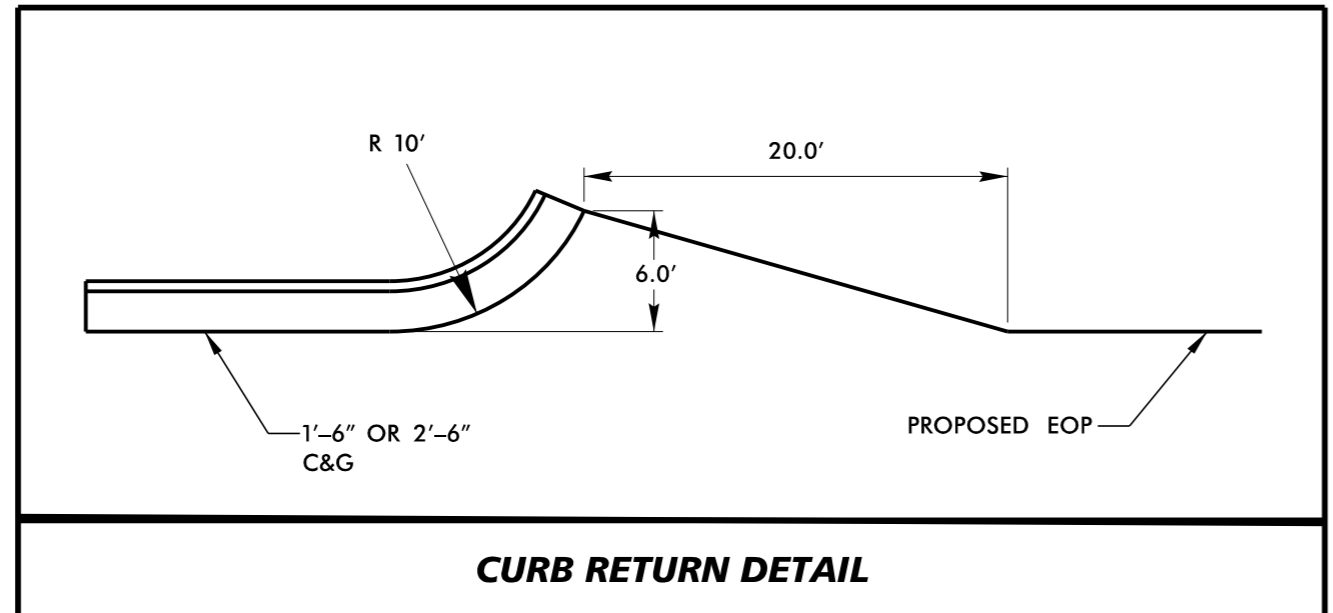
**DRIVEWAY TYPICAL SECTION**

**NOTES:**

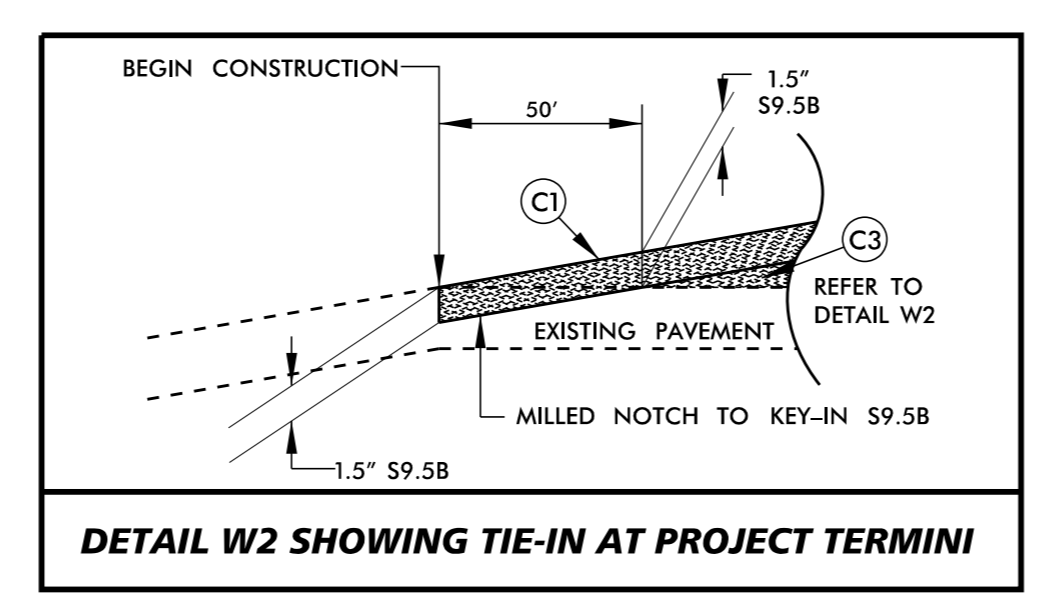
1. SEE PLANS FOR EXISTING PAVEMENT LOCATIONS.
2. SAWCUT EXISTING PAVEMENT TO PROVIDE 1' MINIMUM FULL DEPTH PAVEMENT.
3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED.
4. MILL EXISTING ASPHALT PAVEMENT TO A DEPTH THAT ALLOWS THE MINIMUM SURFACE COURSE DEPTH.

**FINAL PAVEMENT SCHEDULE**

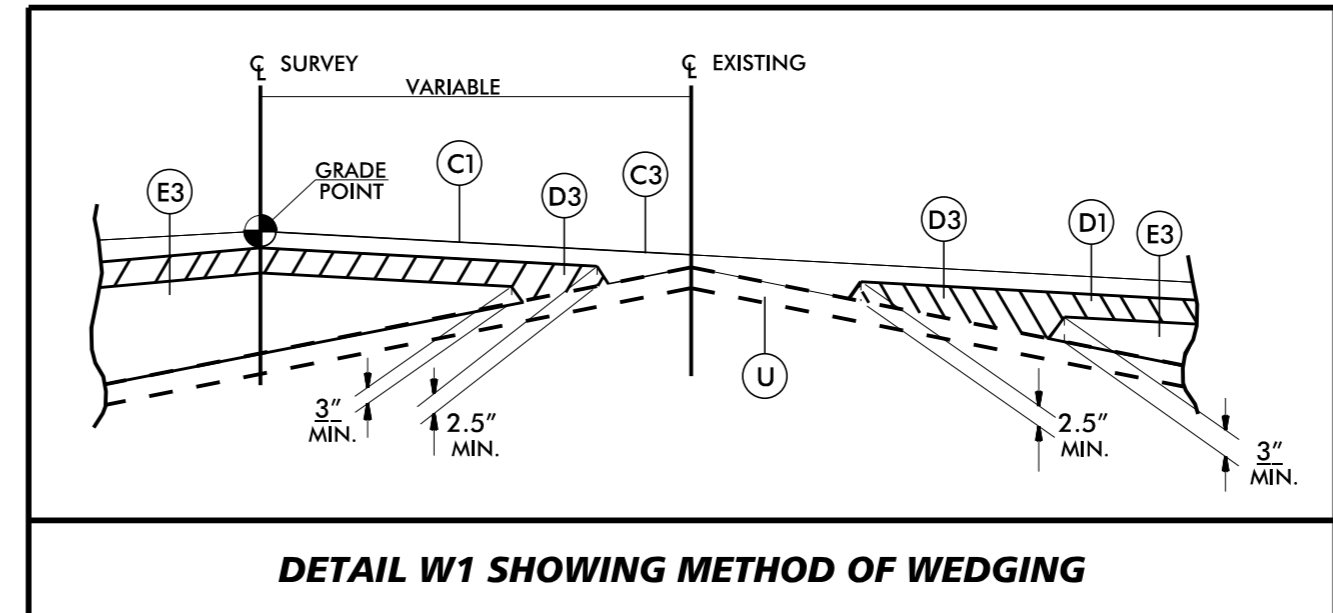
A	PROPOSED APPROX. 6" CONCRETE DRIVEWAY, CLASS A
C1	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B
C2	3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B
C3	VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B
D1	4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C
D3	VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C
E1	5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C
E2	3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER
R2	1'-6" CONCRETE CURB AND GUTTER
R5	5" MONOLITHIC CONCRETE ISLAND
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	ASPHALT MILLING (1.5 INCHES)
V2	INCIDENTAL MILLING
W	ASPHALT WEDGING [SEE DETAIL SHEET 2A-3]



**CURB RETURN DETAIL**



**DETAIL W2 SHOWING TIE-IN AT PROJECT TERMINI**

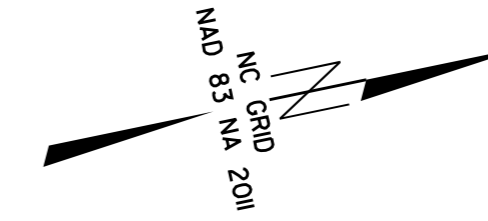


**DETAIL W1 SHOWING METHOD OF WEDGING**

REVISIONS

K:\CHL\_P\PROJECTS\2020 - U-5112 (P3) Intersection\Roadway\Pro\U-5112\_rdy\_1typ.dgn 1/3/2024

PROJECT REFERENCE NO. U-5112	SHEET NO. 2B-1
R/W SHEET NO.	
ROADWAY ENGINEER FRANK D. MASTERSON, JR. SEAL 037923 NORTH CAROLINA PROFESSIONAL ENGINEER	HYDRAULICS ENGINEER FRANK D. MASTERSON, JR. SEAL 037923 NORTH CAROLINA PROFESSIONAL ENGINEER
DocuSigned by: Frank Masterson	DocuSigned by: Frank Masterson
DATE: 12/12/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

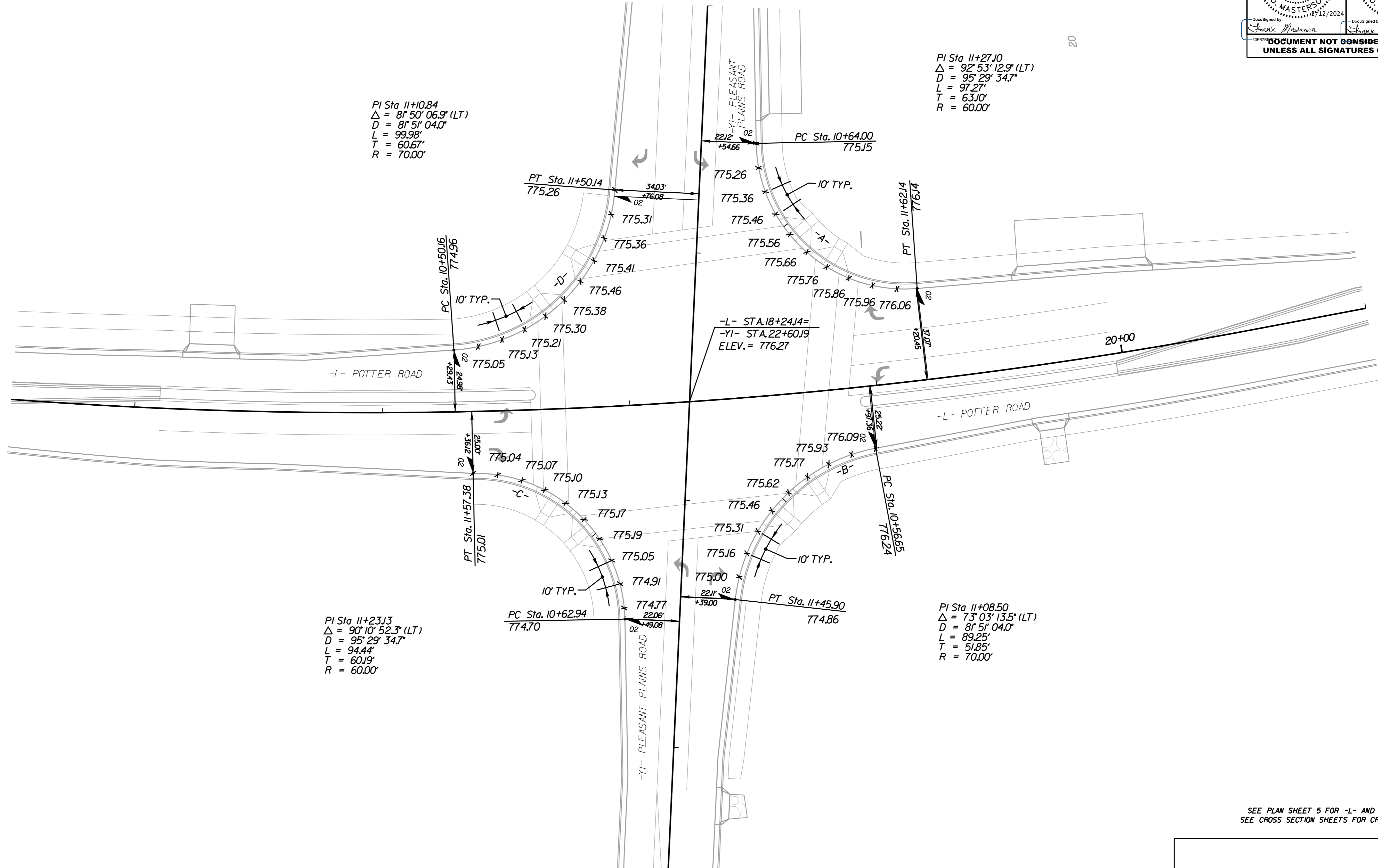


PI Sta 11+27.10  
 $\Delta = 92^{\circ} 53' 12.9''$  (LT)  
 $D = 95^{\circ} 29' 34.7''$   
 $L = 97.27'$   
 $T = 63.10'$   
 $R = 60.00'$

PI Sta 11+10.84  
 $\Delta = 81^{\circ} 50' 06.9''$  (LT)  
 $D = 81^{\circ} 51' 04.0''$   
 $L = 99.98'$   
 $T = 60.67'$   
 $R = 70.00'$

PI Sta 11+23.13  
 $\Delta = 90^{\circ} 10' 52.3''$  (LT)  
 $D = 95^{\circ} 29' 34.7''$   
 $L = 94.44'$   
 $T = 60.19'$   
 $R = 60.00'$

PI Sta 11+08.50  
 $\Delta = 73^{\circ} 03' 13.5''$  (LT)  
 $D = 81^{\circ} 51' 04.0''$   
 $L = 89.25'$   
 $T = 51.85'$   
 $R = 70.00'$



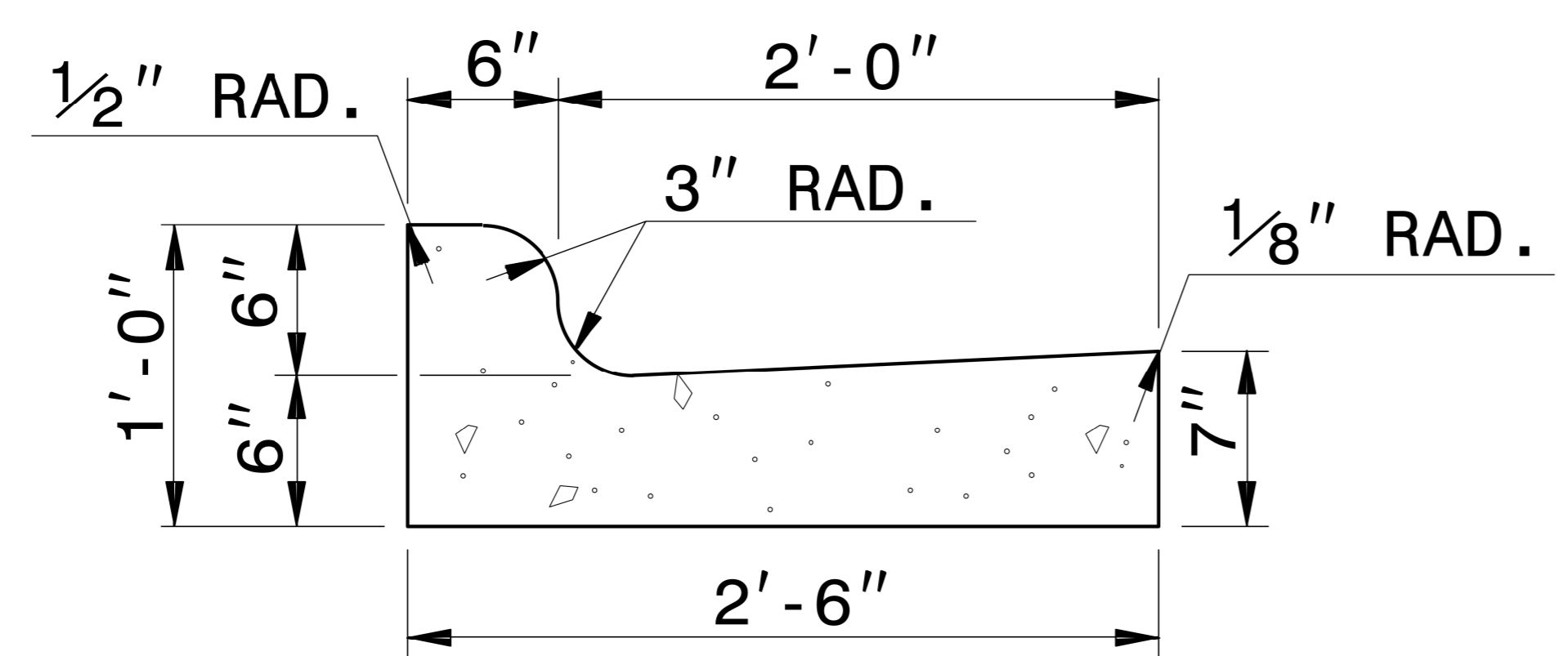
SEE PLAN SHEET 5 FOR -L- AND -Y- LINES  
 SEE CROSS SECTION SHEETS FOR CROSS SLOPES

INTERSECTION DETAIL

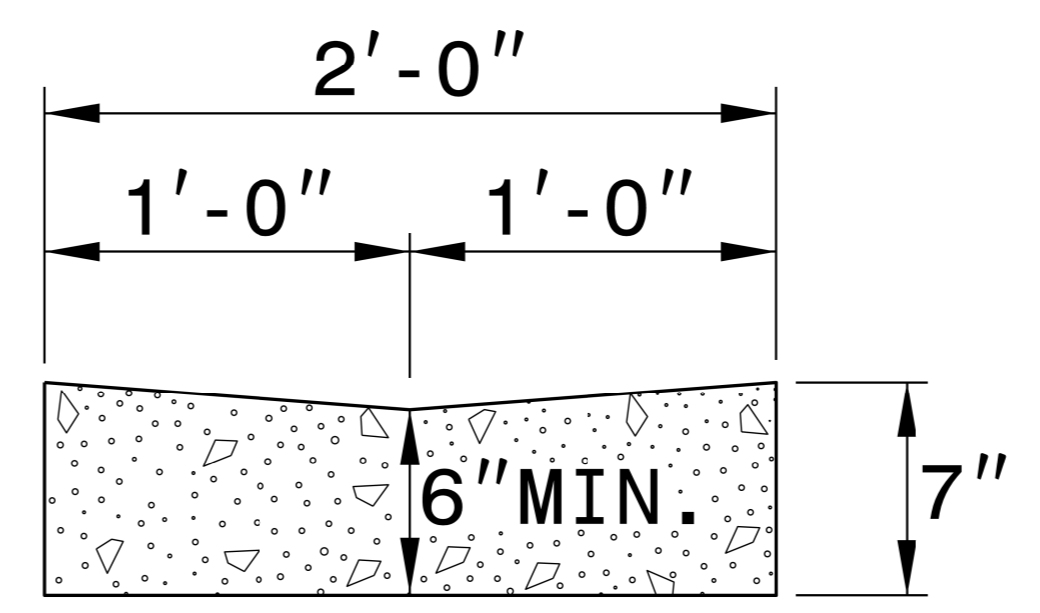
REVISIONS

1/3/2024 K:\CHL\_PRJ\01036720 - U-5112 (P3 Intersection)\Roadway\Pro\U-5112-INTERSECTION-DET.dwg

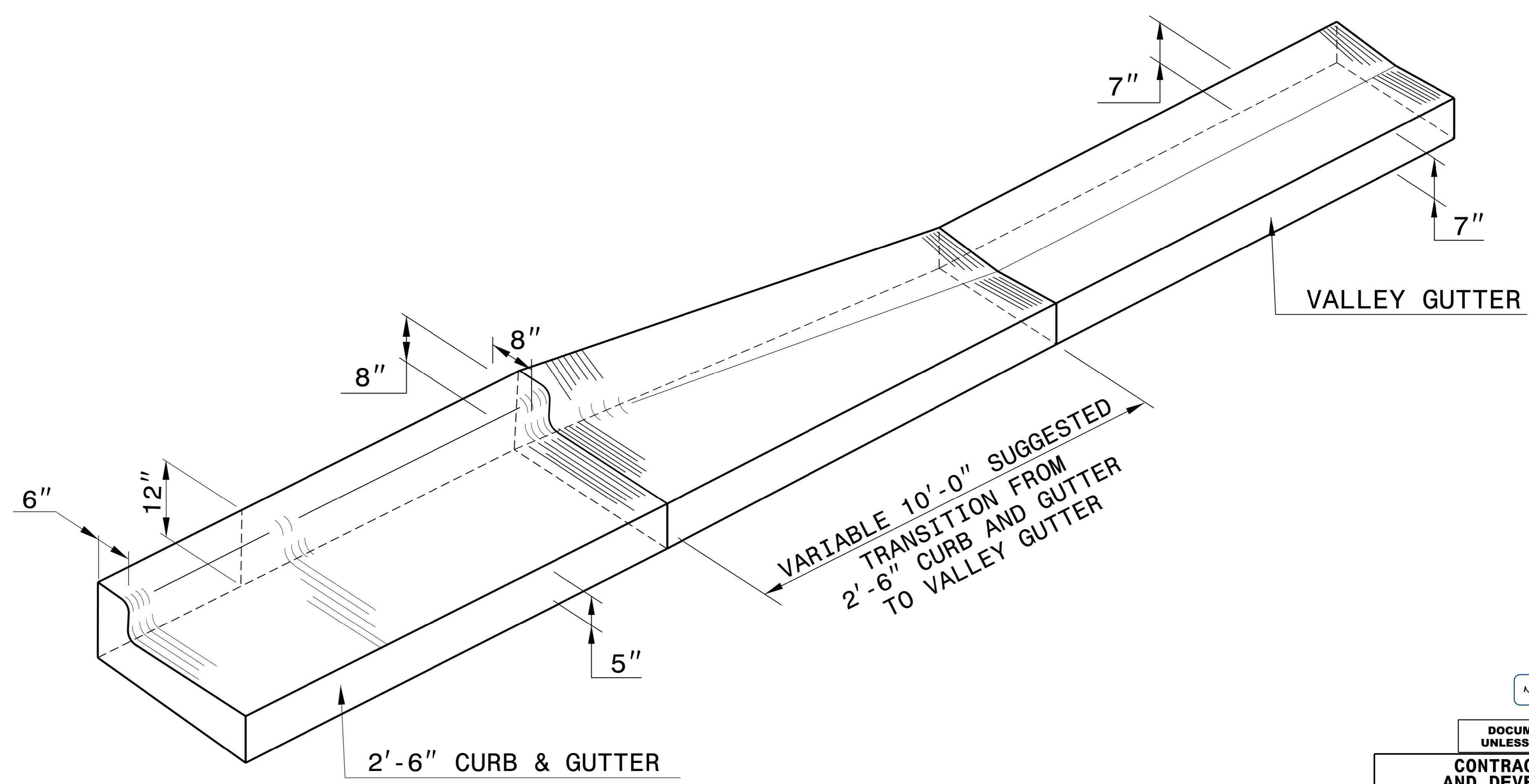
\*NOTE: SEE STD. DWG. 846.01 FOR GENERAL NOTES



**2'-6" CURB AND GUTTER**

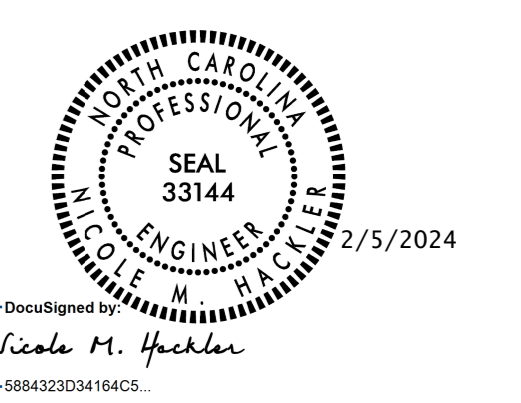


**VALLEY GUTTER**



**ISOMETRIC VIEW OF TRANSITION**

07-SEP-2017 08:20 S:\Contracts\Special Details\ward\usr\stand\c&g transition sections.dgn jhoverton AT CSD-292595



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

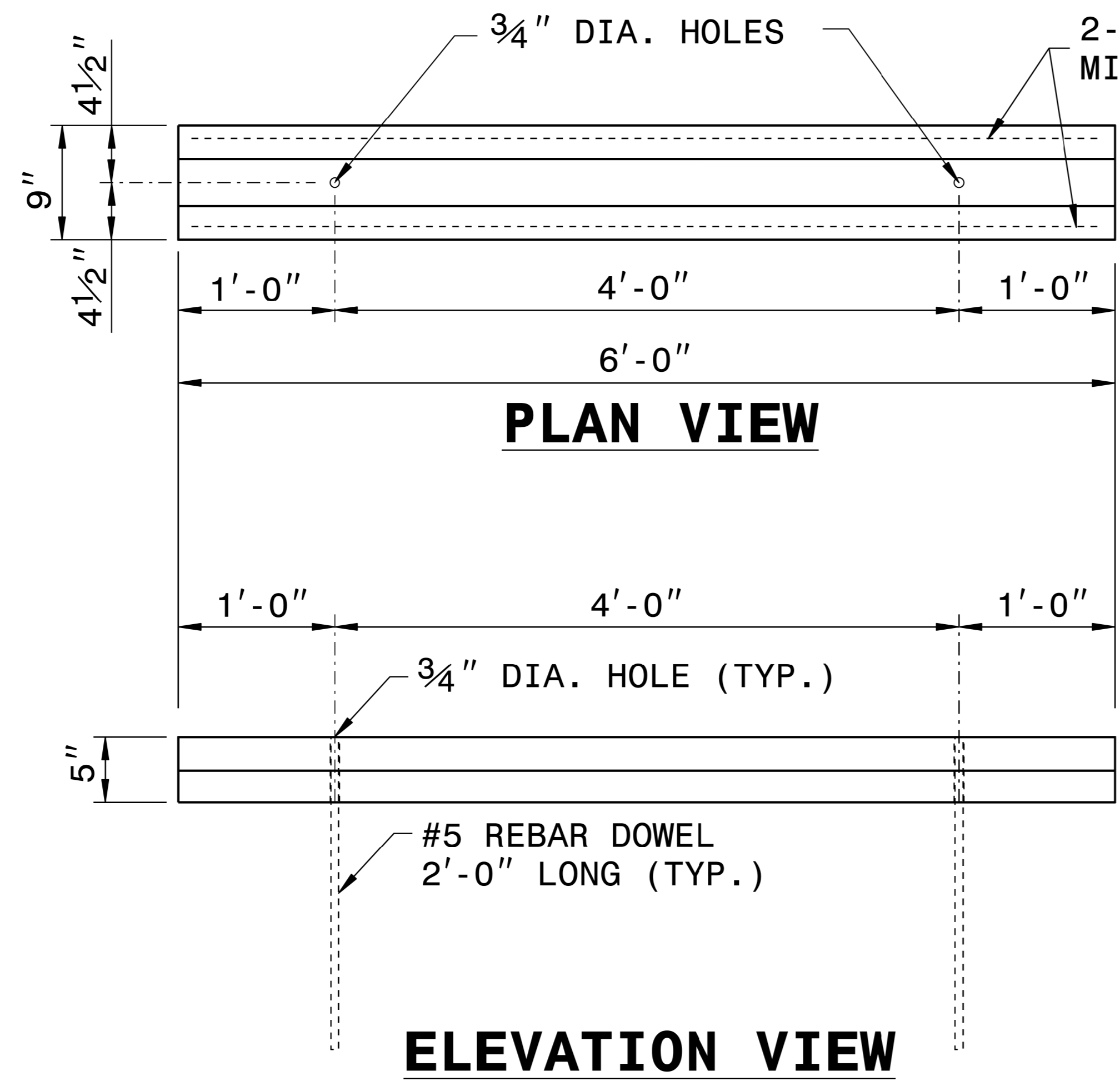
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>TRANSITION FROM 2'-6" CURB AND GUTTER TO VALLEY GUTTER</b>	
ORIGINAL BY: T.S.SPELL	DATE: FEB. 4, 2009
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: w:\usr\details\stand\cgtransit.dgn	



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

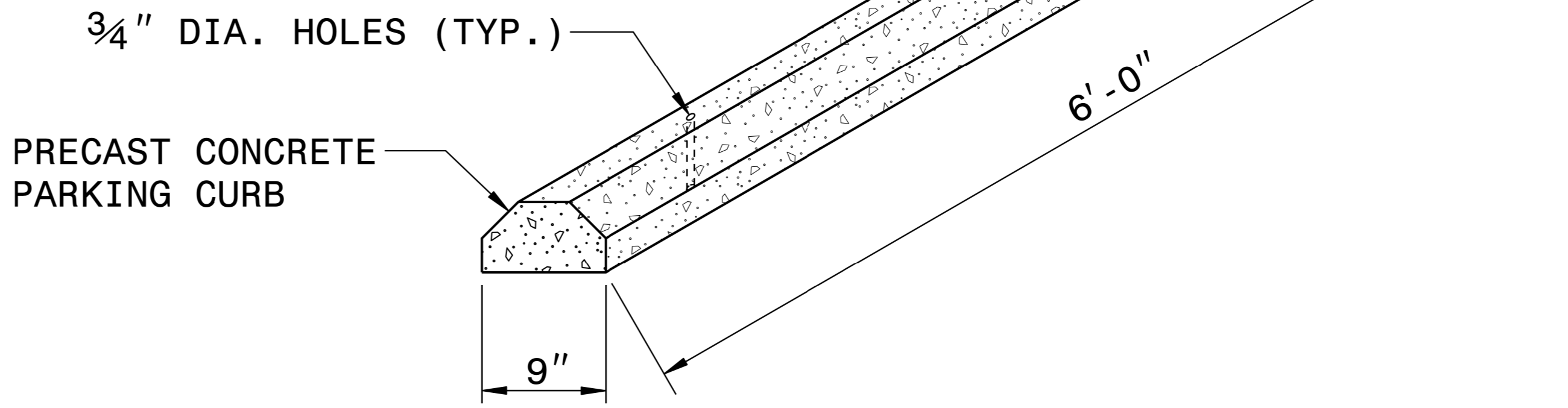
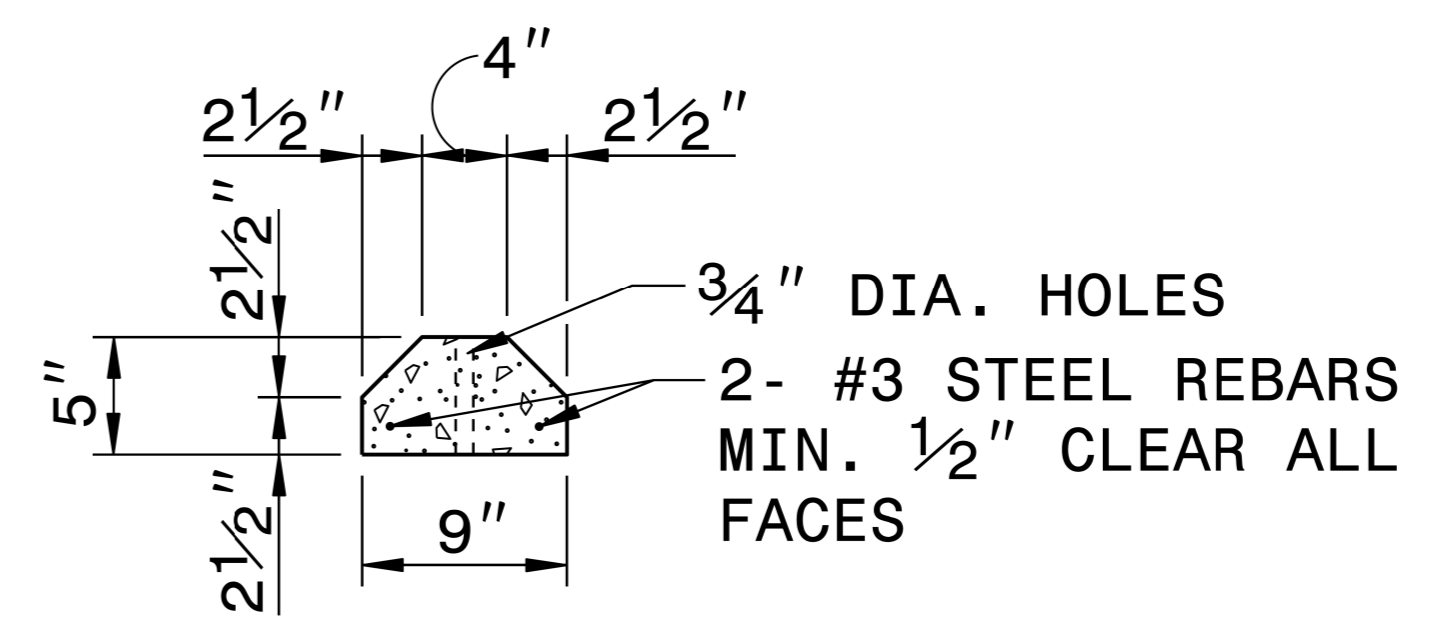
ENGLISH DETAIL DRAWING FOR  
**PRECAST CONCRETE PARKING CURB**

SHEET 1 OF 1  
**PRCSTCRB**



GENERAL NOTES:  
- CONCRETE COMPRESSIVE STRENGTH  
4000psi MIN.  
- ASTM A615M - GRADE 400 REINFORCING  
STEEL.

2- #3 STEEL REBARS  
MIN. 1/2" CLEAR ALL FACES



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

ENGLISH DETAIL DRAWING FOR  
**PRECAST CONCRETE PARKING CURB**

SHEET 1 OF 1  
**PRCSTCRB**

30-NOV-2018 13:30  
S:\Contracts\Contract\569201\Details\stand\PreCast Parking Curb.dgn  
jlower-ton HT USD-2/25/15

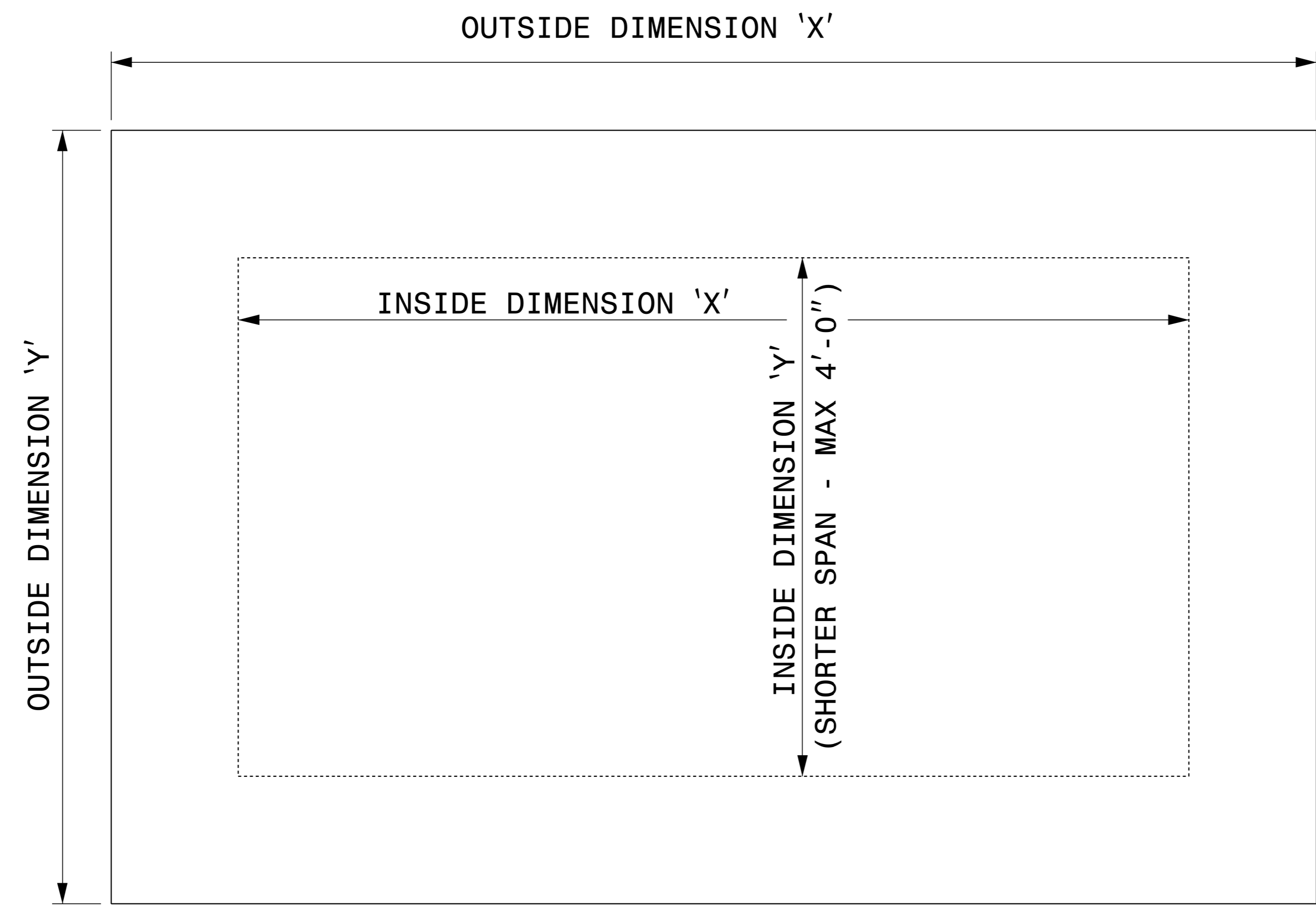
DocuSigned by:  
*Nicole M. Hecker*  
5884323034164C5

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

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

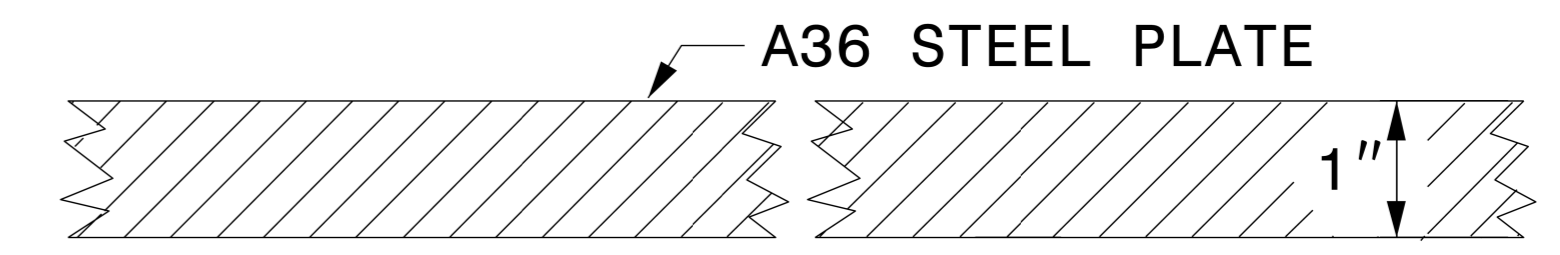
**SEE PLATE FOR TITLE**

ORIGINAL BY: E.E. WARD DATE: 5-97  
MODIFIED BY: DATE: \_\_\_\_\_  
CHECKED BY: DATE: \_\_\_\_\_  
FILE SPEC.: s:\eric\usr\details\metric\stand\prstcrb\_eng.dgn



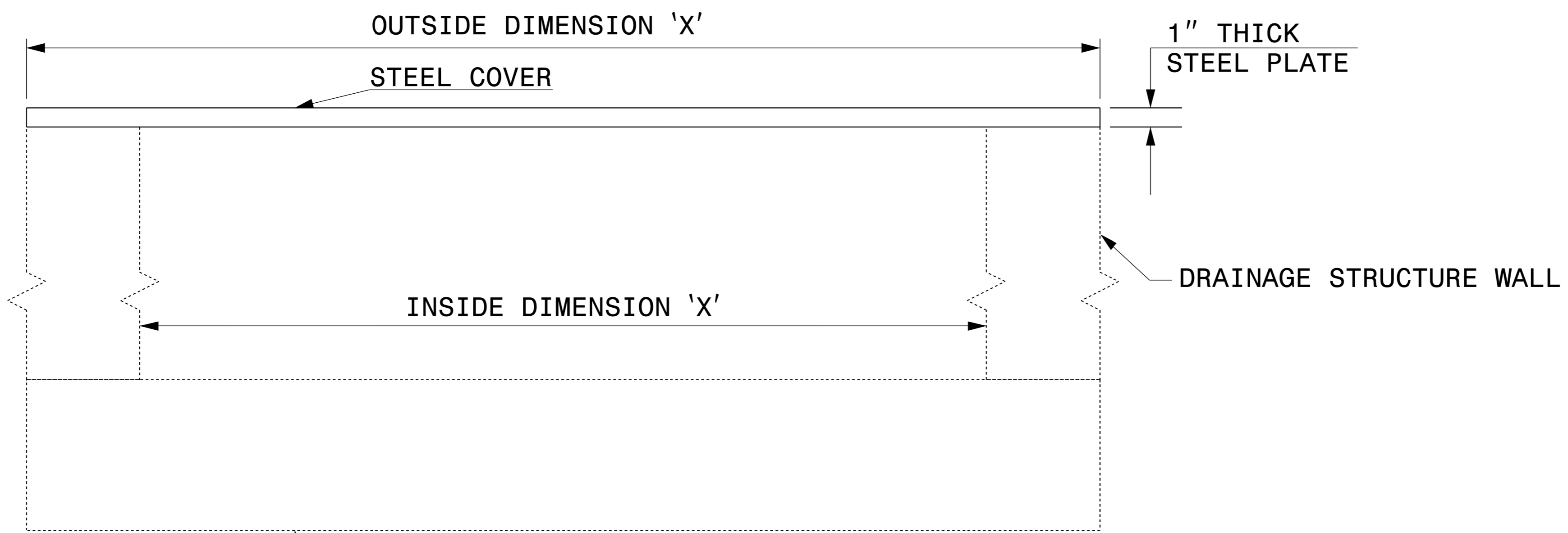
GENERAL NOTES:

- 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.

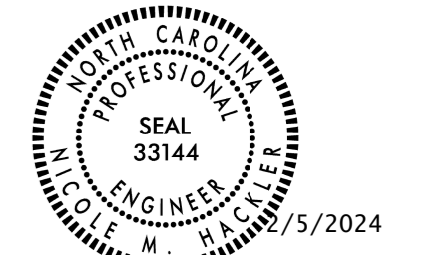


SECTION VIEW OF STEEL TOP PLATE

PLAN VIEWS



ELEVATION VIEWS



DocuSigned by:  
Nicole M. Harker  
588432034164CS

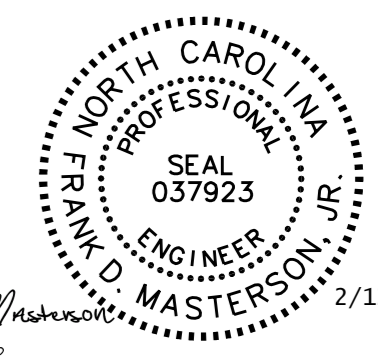
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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

**DETAIL OF TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE**

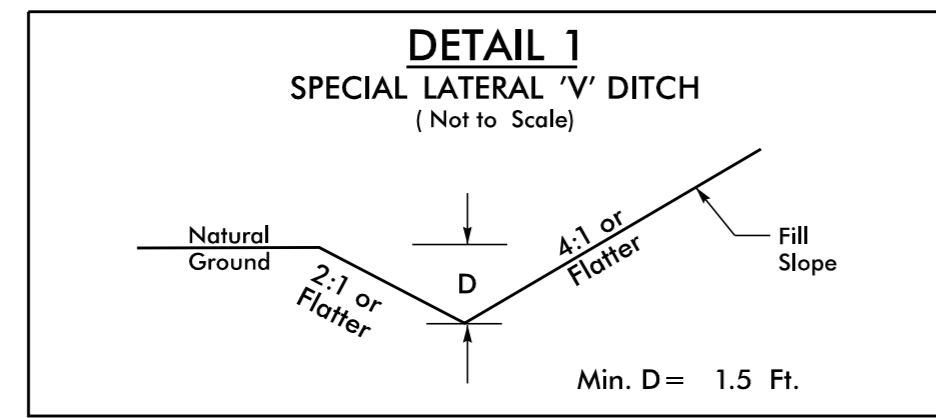
ORIGINAL BY: E.E. WARD DATE: 2-2-98  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
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\$\$\$\$\$CON\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$

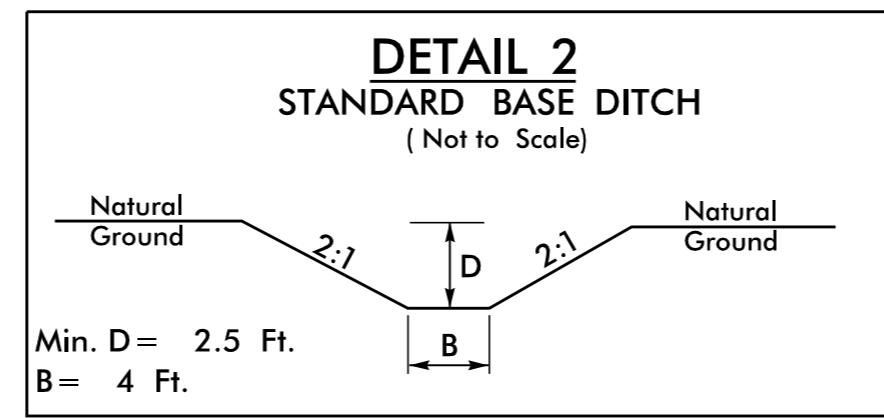


DocuSigned by:  
*Frank D. Masterston*  
FRANK D. MASTERSTON 2/12/2024

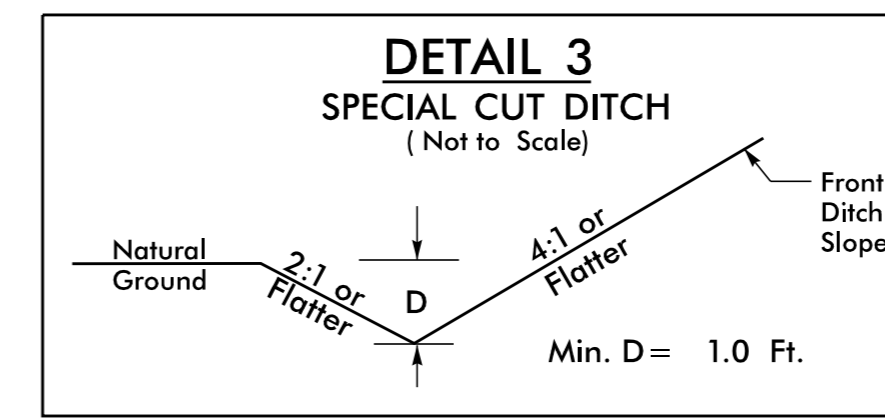
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



FROM STA. 13+10 TO STA. 13+80 -L- (RT)  
FROM STA. 13+80 TO STA. 14+10 -L- (RT)  
FROM STA. 27+10 TO STA. 27+80 -Y1- (RT)  
FROM STA. 26+50 TO STA. 27+86 -Y1- (LT)



FROM STA. 18+40 -Y1- (RT)



FROM STA. 12+11 TO STA. 12+79 -L- (RT)

REVISIONS

COMPUTED BY: A.RECKER DATE: 09/20/23  
 CHECKED BY: F.MASTERSON DATE: 09/20/23

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS



200 S. TRYON ST. • CHARLOTTE, NC 28202

RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO. SHEET NO.

U-5112

3B-1

R/W SHEET NO.

ROADWAY ENGINEER

HYDRAULICS ENGINEER

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

REVISIONS

**SUMMARY OF EARTHWORK**

*Volumes in Cubic Yards*

LOCATION	UNCLASSIFIED EXCAVATION	EMBANKMENT +%	BORROW	WASTE
PHASE 1				
-L- (RT) 11+50.00 TO 25+00.00	666	622	0	44
-Y1- (RT) 11+50.00 TO 27+50.00	294	314	20	0
-CURB B-	186	0	0	186
-CURB C-	5	124	119	0
-CURB D-	244	1	0	243
SUMMARY (PHASE 1)	1395	1061	139	473
PHASE 2				
-L- (LT) 11+50.00 TO 25+00.00	315	718	403	0
-Y1- (LT) 11+47.00 TO 27+50.00	381	217	0	164
-CURB A-	29	53	24	0
SUMMARY (PHASE 2)	725	988	427	164
SUMMARY (PHASE 1 AND PHASE 2)	2120	2049	566	637
MATERIAL FOR SHOULDER CONSTRUCTION	0	0	0	0
LOSS DUE TO CLEARING AND GRUBBING	0	0	0	0
UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE	0	0	0	0
WASTE IN LIEU OF BORROW	0	0	-566	-566
PROJECT TOTALS:	2120	2049	0	71
EST 5% FOR REPLACING TOPSOIL ON BORROW PITS	0	0	0	0
GRAND TOTALS:	2120		0	
SAY:	2150		0	
ESTIMATED UNDERCUT EXCAVATION	700			

**PAVEMENT REMOVAL SUMMARY**

SURVEY LINE	STATION	STATION	LOCATION L/R/T/CL	YD'
-L-	18+62.00	19+63.00	LT	212
-L-	20+18.00	21+74.00	LT	224
-L-	19+97.00	22+21.00	C	154
-Y1-	20+59.00	20+92.00	LT	70
SAWCUT	-	-	L/R/T	50
TOTAL:				711
SAY:				800

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1/16/2024

NOTE: APPROXIMATE QUANTITIES ONLY. CLEARING AND GRUBBING, UNCLASSIFIED EXCAVATION, FINE GRADING, AND REMOVAL OF ASPHALT PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".

LD2884

COMPUTED BY: FRANK MASTERSON DATE: 06/22/2023  
CHECKED BY: FRANK MASTERSON DATE: 09/12/2023

PROJECT NO. SHEET NO.  
U-5112 3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.  
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Drainage Pipe (RCP, CSP, CAA, HDPE, PVC, or PP PIPE), C. S. PIPE, R. C. PIPE CLASS III, R. C. PIPE CLASS IV, R. C. PIPE CLASS V, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, GRATE TYPE, and REMARKS. Includes a SHEET TOTALS row at the bottom.



LR2684

COMPUTED BY: FRANK MASTERSON DATE: 06/22/2023  
CHECKED BY: FRANK MASTERSON DATE: 09/12/2023

PROJECT NO. SHEET NO.  
U-5112 3D-3

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.  
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP/EVERT ELEVATION, MINIMUM REQUIRED SLOPE, PIPE SIZES (15-48 inches), DRAINAGE STRUCTURE, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes a grid for data entry and summary rows at the bottom.

SHEET TOTALS and PROJECT TOTALS summary rows.

-L-  
 PI Sta 10+89.48  
 $\Delta = 2^{\circ}09'41.6''$  (RT)  
 $D = 2^{\circ}58'35.1''$   
 $L = 72.62'$   
 $T = 36.32'$   
 $R = 1,925.00'$

SEE SHEET 10 FOR -L- PROFILE

**Kimley»Horn**  
 200 S. TRYON ST. • CHARLOTTE, NC 28202

PROJECT REFERENCE NO. U-5112  
 SHEET NO. 4

RW SHEET NO. HYDRAULICS ENGINEER

ROADWAY ENGINEER

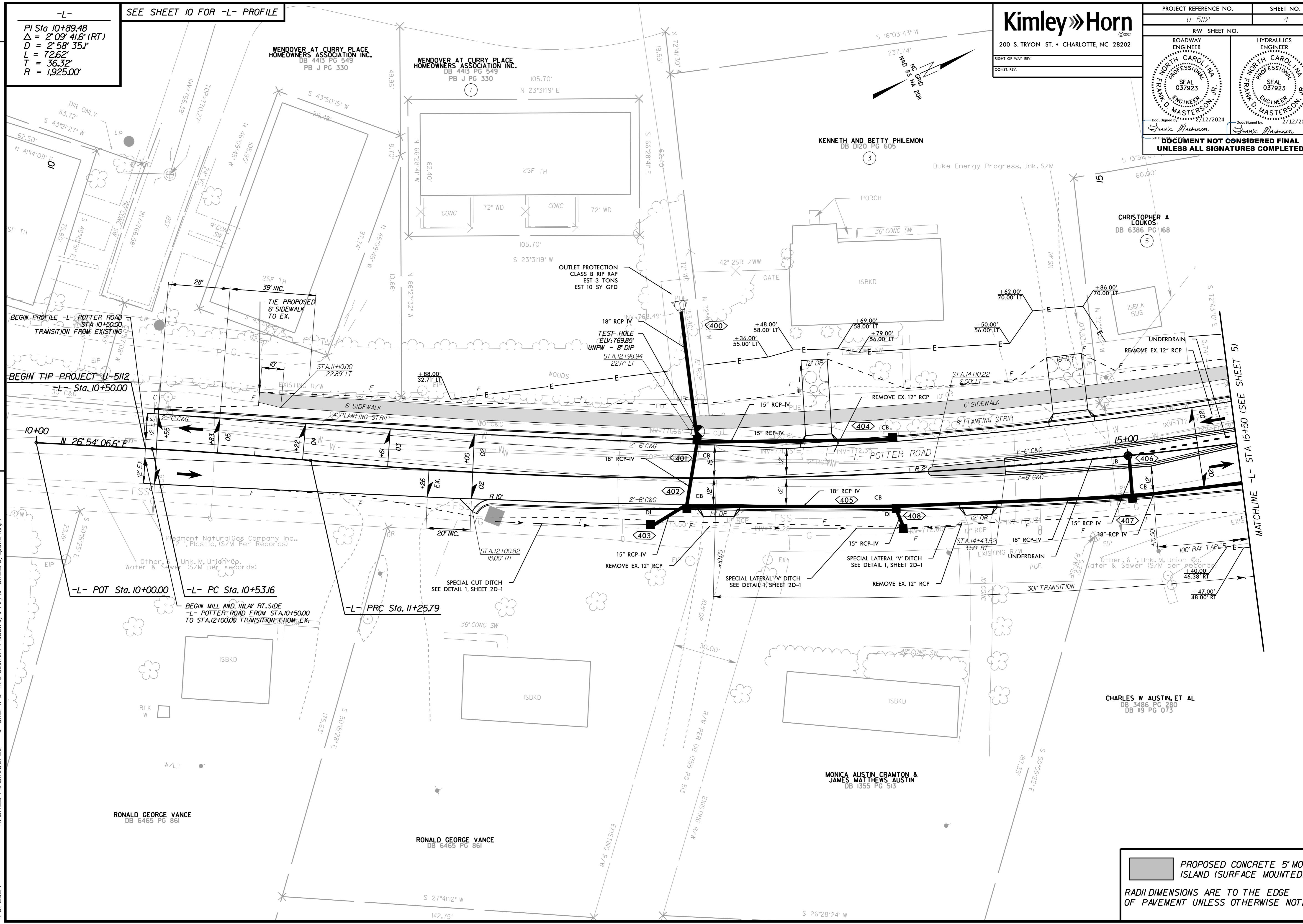
FRANK D. MASTERSON, JR.  
 SEAL 037923  
 NORTH CAROLINA PROFESSIONAL ENGINEER

FRANK D. MASTERSON, JR.  
 SEAL 037923  
 NORTH CAROLINA PROFESSIONAL HYDRAULICS ENGINEER

DocuSigned by: Frank D. Masterston, Jr. 2/12/2024

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 UNLESS ALL SIGNATURES COMPLETED**

REVISIONS



PROPOSED CONCRETE 5' MONO. ISLAND (SURFACE MOUNTED)  
 RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

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 1/3/2024

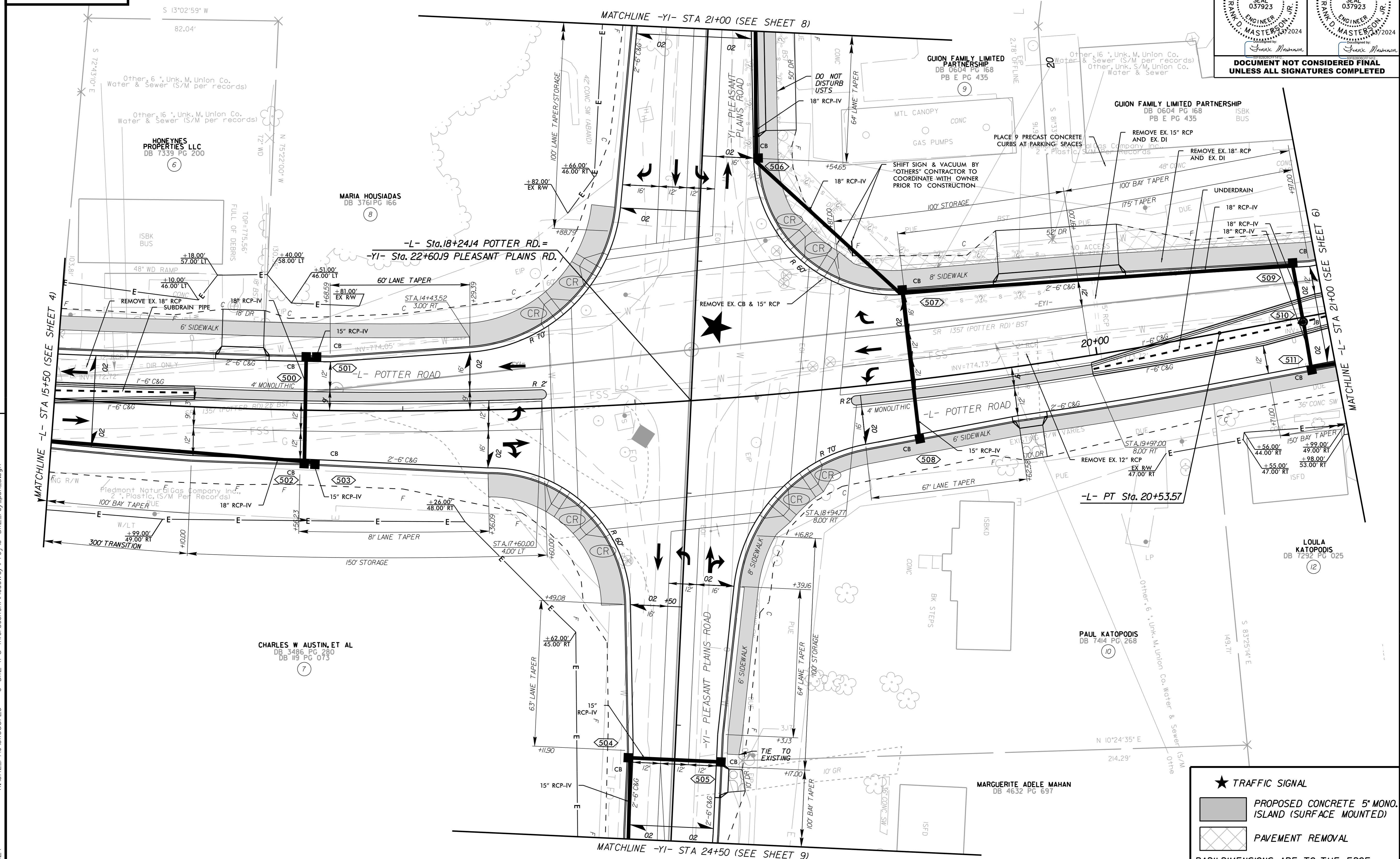
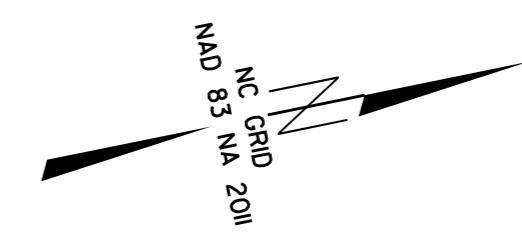


-L-  
PI Sta 15+98.87  
Δ = 27° 36' 53.0" (LT)  
D = 2' 58' 35.1"  
L = 927.79'  
T = 473.09'  
R = 1,925.00'

SEE SHEET 10 FOR -L- PROFILE  
SEE SHEET 12 FOR -YI- PROFILE  
SEE DETAIL 2B-1 FOR CURB  
ALIGNMENTS AND ELEVATIONS

**Kimley»Horn**  
200 S. TRYON ST. • CHARLOTTE, NC 28202

PROJECT REFERENCE NO. U-5112	SHEET NO. 5
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY ENGINEER	SEAL 037923
PROFESSIONAL ENGINEER	FRANK D. MASTERSON, JR.
SEAL 037923	2024
FRANK D. MASTERSON, JR.	2024
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REVISIONS

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3/13/2024

★ TRAFFIC SIGNAL

■ PROPOSED CONCRETE 5" MONO. ISLAND (SURFACE MOUNTED)

▨ PAVEMENT REMOVAL

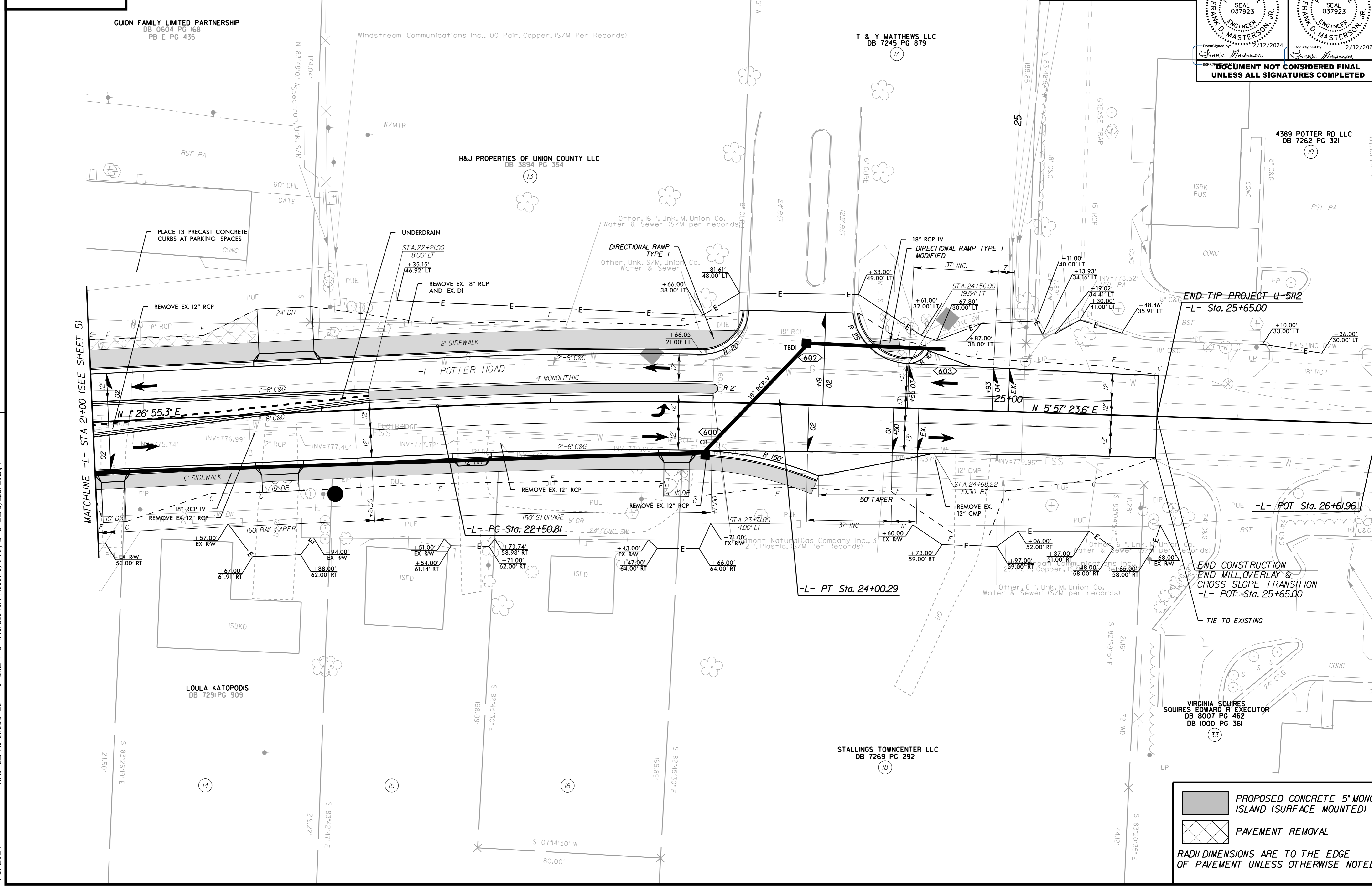
RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

-L-  
 SEE SHEET 11 FOR -L- PROFILE  
 PI Sta 23+25.59  
 $\Delta = 4' 30'' 28.3'' (RT)$   
 $D = 3' 00'' 56.0''$   
 $L = 149.49'$   
 $T = 74.78'$   
 $R = 1,900.00'$

**Kimley»Horn**  
 200 S. TRYON ST. • CHARLOTTE, NC 28202  
 ROADWAY ENGINEER  
 HYDRAULICS ENGINEER  
 PROJECT REFERENCE NO. U-5112 SHEET NO. 6  
 RW SHEET NO. 6  
 NORTH CAROLINA PROFESSIONAL SEAL 037923  
 NORTH CAROLINA PROFESSIONAL SEAL 037923  
 FRANK D. MASTERSON, JR.  
 FRANK D. MASTERSON, JR.  
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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PROPOSED CONCRETE 5" MONO. ISLAND (SURFACE MOUNTED)  
 PAVEMENT REMOVAL  
 RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

SEE SHEET II FOR -YI- PROFILE

# Kimley»Horn

200 S. TRYON ST. • CHARLOTTE, NC 28202

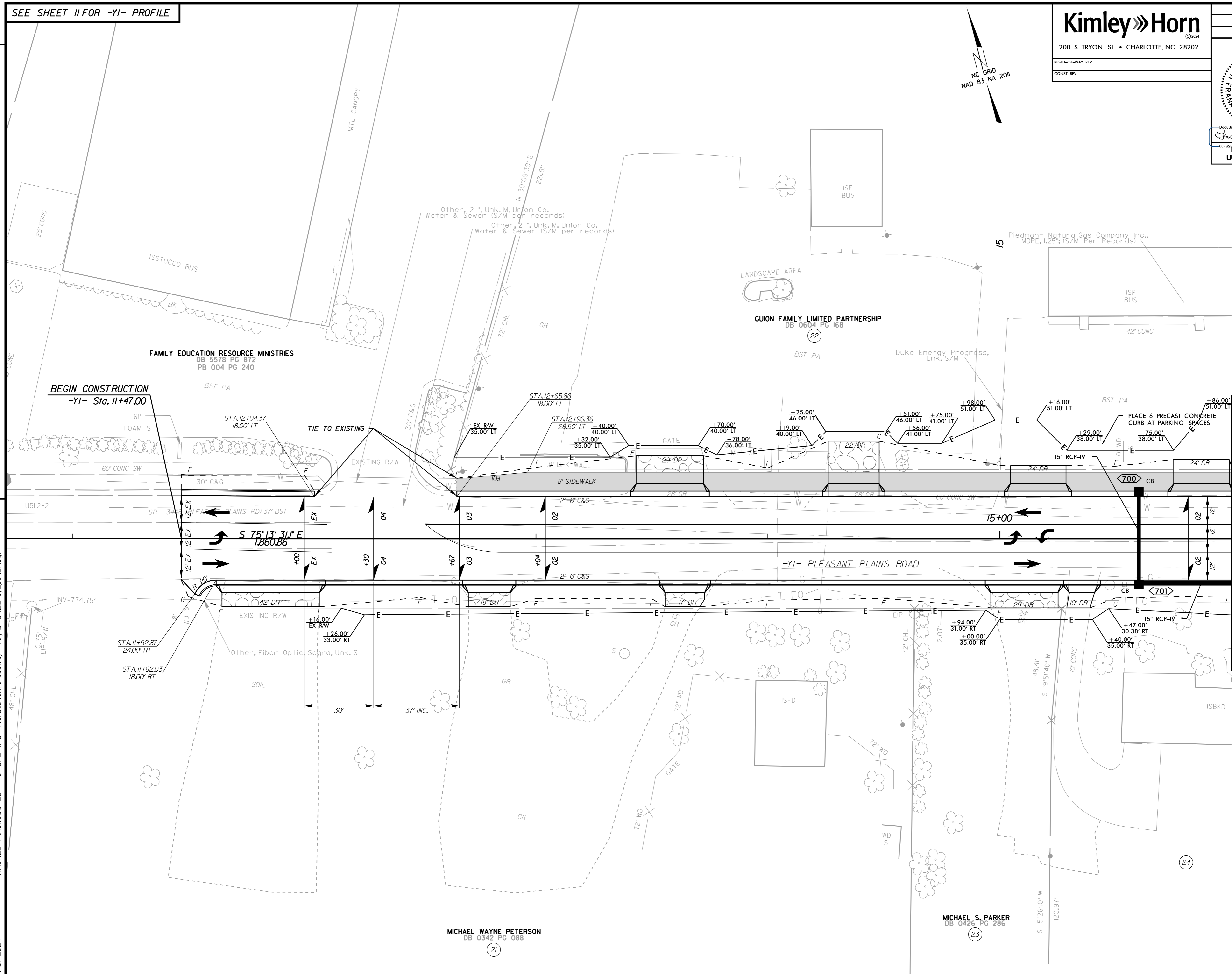
RIGHT-OF-WAY REV.

CONST. REV.

PROJECT REFERENCE NO. U-5112	SHEET NO. 7
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: Frank Masterson 2/12/2024	DocuSigned by: Frank Masterson 2/12/2024
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



REVISIONS



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1/3/2024

MICHAEL WAYNE PETERSON  
DB 0342 PG 088

MICHAEL S. PARKER  
DB 0426 PG 286

MATCHLINE -YI- STA 16+00 (SEE SHEET 8)

SEE SHEET 12 FOR -YI- PROFILE

# Kimley»Horn

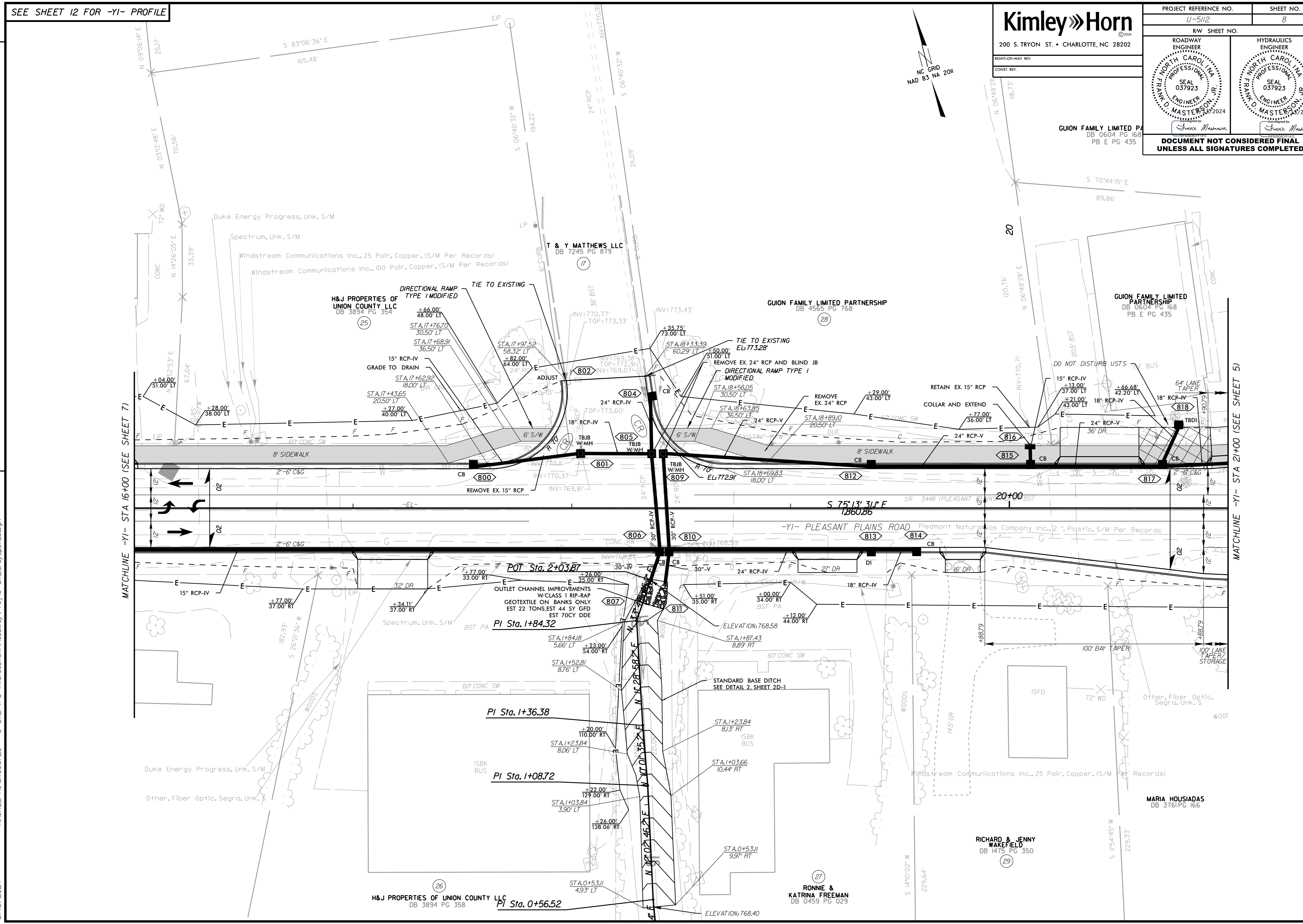
200 S. TRYON ST. • CHARLOTTE, NC 28202

RIGHT-OF-WAY REV.  
CONST. REV.

PROJECT REFERENCE NO. U-5112	SHEET NO. 8
RW SHEET NO.	
ROADWAY ENGINEER FRANK D. MASTERSON, JR. SEAL 037923 REGISTERED PROFESSIONAL ENGINEER EXPIRES 12/31/2024	HYDRAULICS ENGINEER FRANK D. MASTERSON, JR. SEAL 037923 REGISTERED PROFESSIONAL ENGINEER EXPIRES 12/31/2024
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

K:\CHL\_P\PROJECTS\U-5112\Roadway\Pro\U-5112\_rdy\_psh\_b.dgn 3/13/2024



MATCHLINE -YI- STA 16+00 (SEE SHEET 7)

MATCHLINE -YI- STA 21+00 (SEE SHEET 5)



GUION FAMILY LIMITED PARTNERSHIP  
DB 0604 PG 168  
PB E PG 435

GUION FAMILY LIMITED PARTNERSHIP  
DB 0604 PG 168  
PB E PG 435

RONNIE & KATRINA FREEMAN  
DB 0459 PG 029

H&J PROPERTIES OF UNION COUNTY LLC  
DB 3894 PG 358

RICHARD & JENNY WAKEFIELD  
DB 1475 PG 350

MARIA HOUSIADAS  
DB 3761 PG 166

PI Sta. 1+08.72

PI Sta. 1+36.38

PI Sta. 1+84.32

POT Sta. 2+03.87

S 75°13'31"E  
1,860.86'

S 70°44'15"E  
89.86'

24" RCP-IV  
INV=770.37'

24" RCP-IV  
INV=773.33'

24" RCP  
INV=770.92'

24" RCP  
INV=770.92'

24" RCP  
INV=770.92'

24" RCP  
INV=770.92'

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24" RCP  
INV=770.92'

24" RCP  
INV=770.92'

24" RCP  
INV=770.92'

24" RCP  
INV=770.92'

SEE SHEET 13 FOR -YI- PROFILE

# Kimley Horn

200 S. TRYON ST. • CHARLOTTE, NC 28202

RIGHT-OF-WAY REV.  
CONST. REV.

PROJECT REFERENCE NO. U-5112 SHEET NO. 9

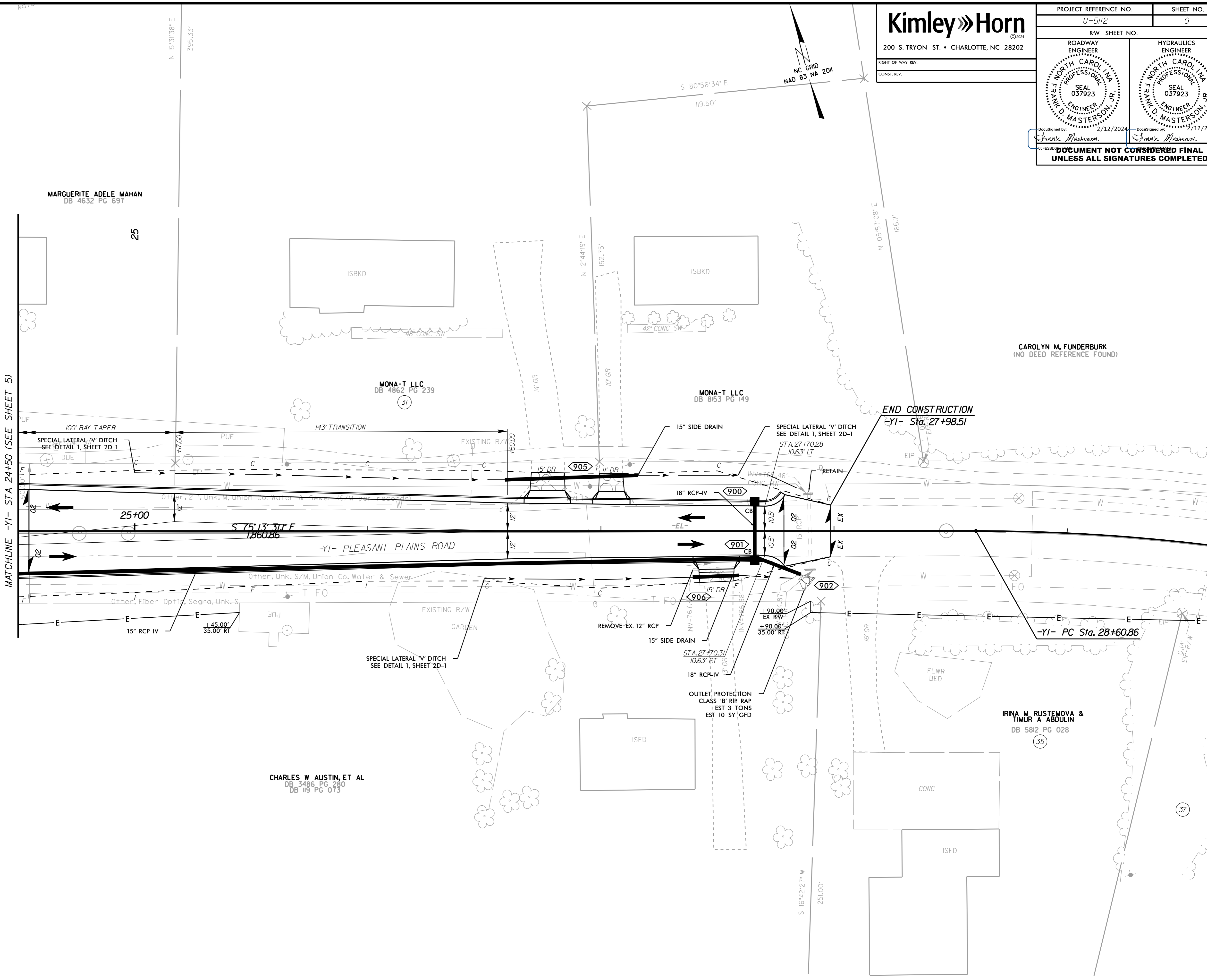
R/W SHEET NO.

ROADWAY ENGINEER FRANK D. MASTERSON, P.E. SEAL 037923	HYDRAULICS ENGINEER FRANK D. MASTERSON, P.E. SEAL 037923
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DocuSigned by: Frank D. Masterson 2/12/2024

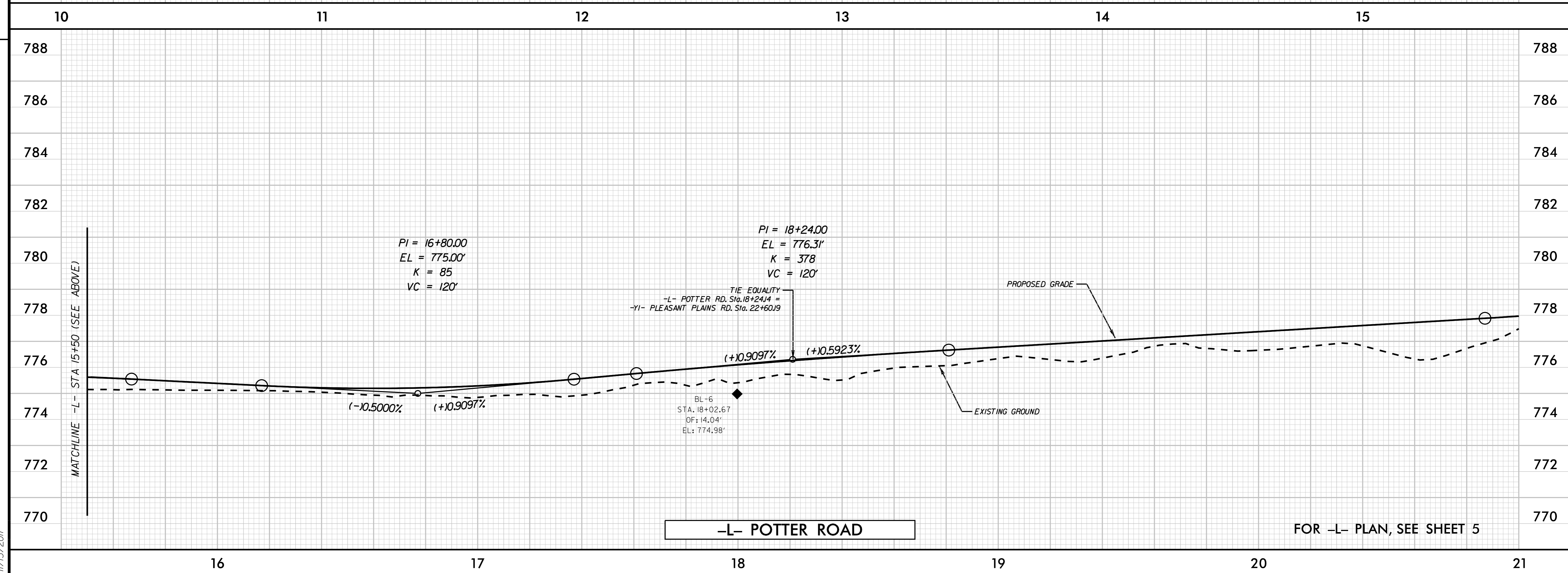
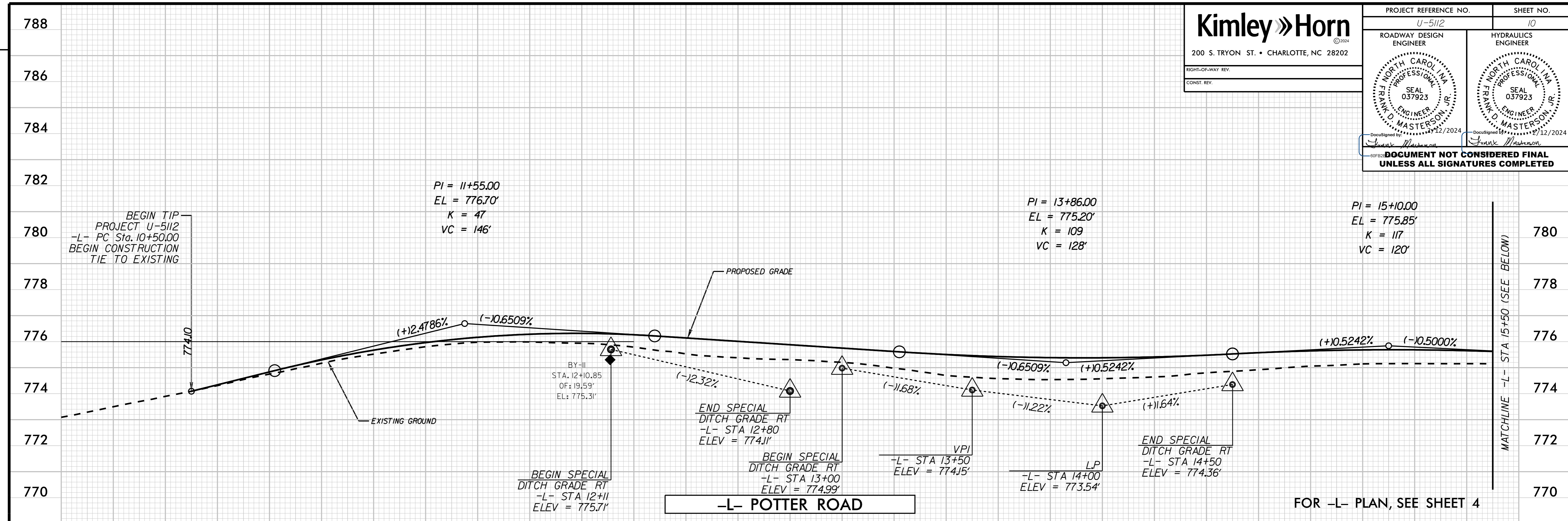
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

REVISIONS



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1/3/2024

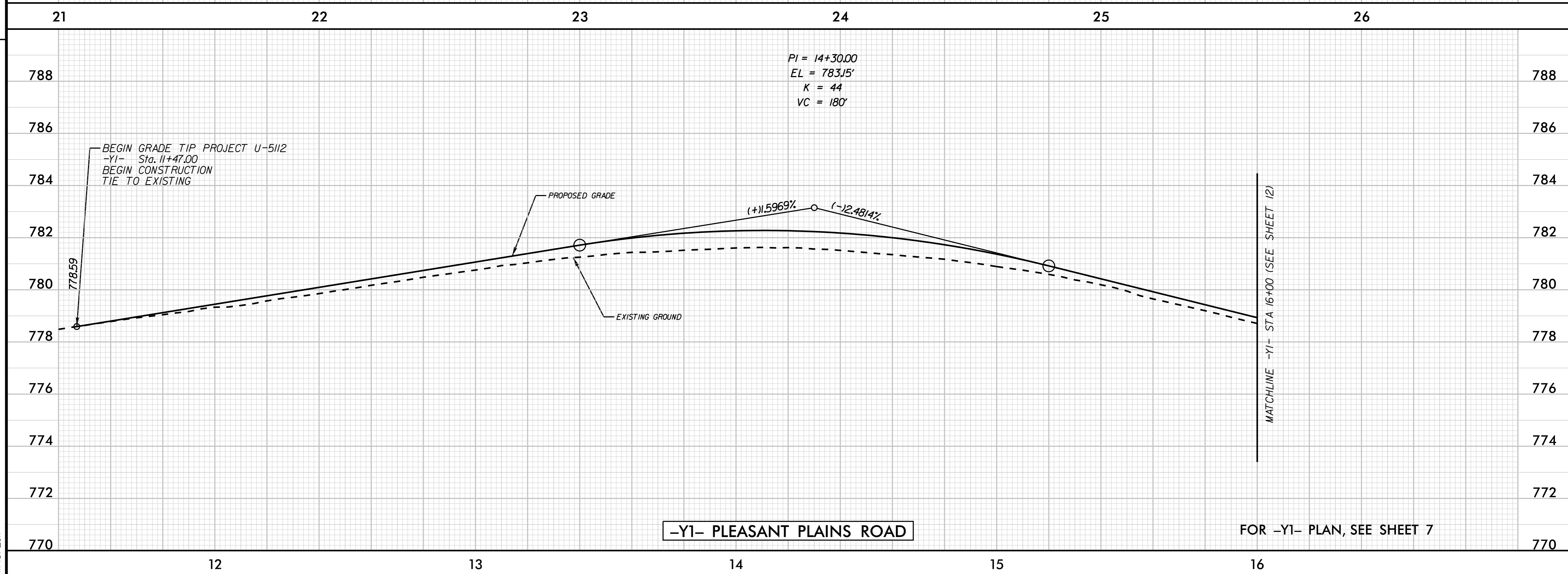
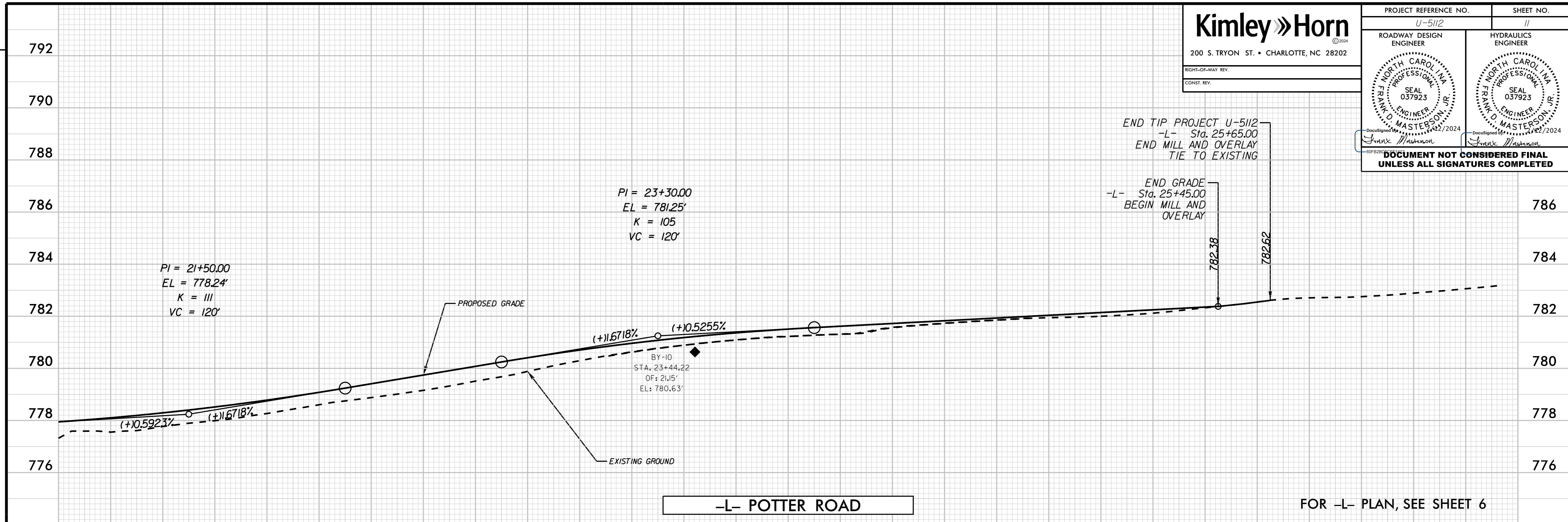


REVISIONS

11/13/2017

PROJECT REFERENCE NO.	SHEET NO.
U-5112	11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Documented by: Frank Masterson Date: 11/13/2017	Documented by: Frank Masterson Date: 11/13/2017

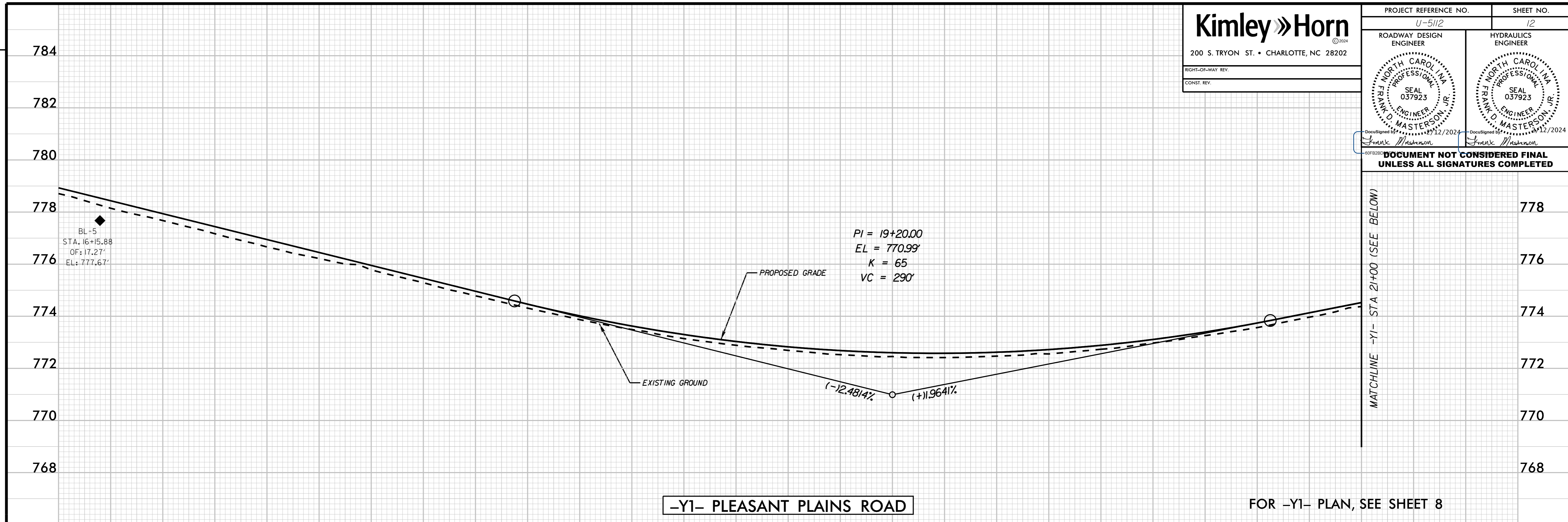
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



REVISIONS

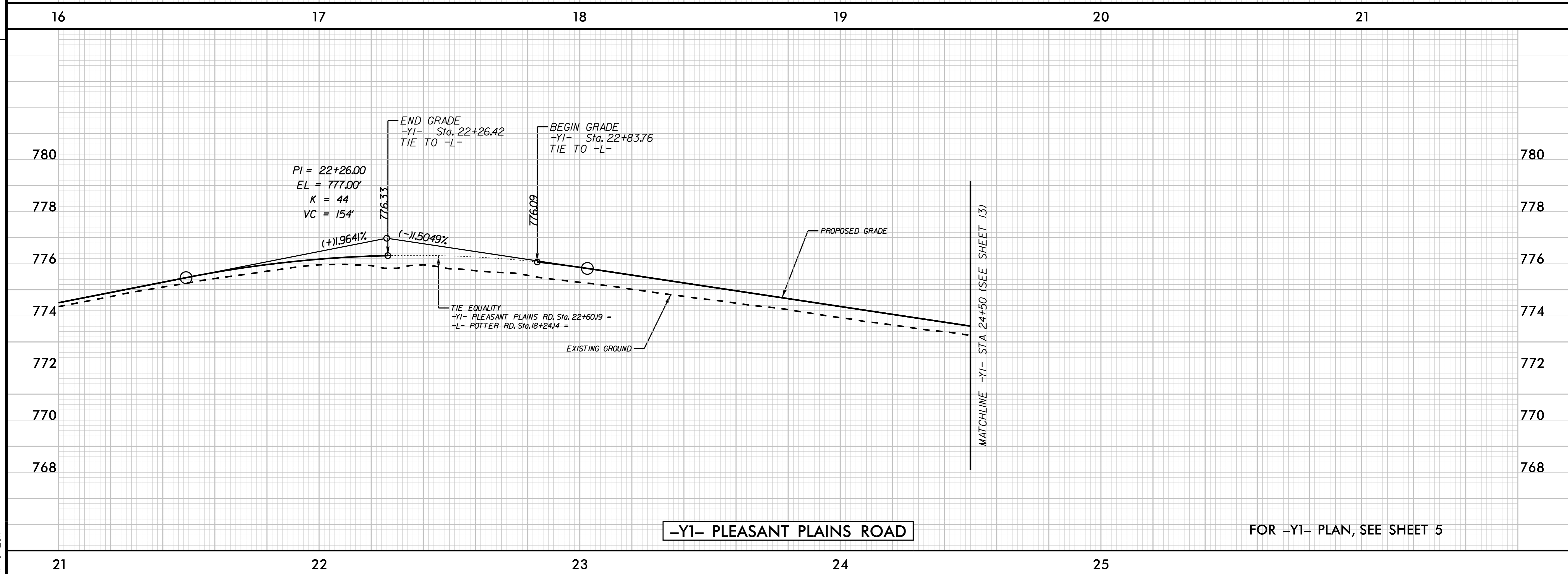
11/13/2017

REVISIONS



**-Y1- PLEASANT PLAINS ROAD**

FOR -Y1- PLAN, SEE SHEET 8



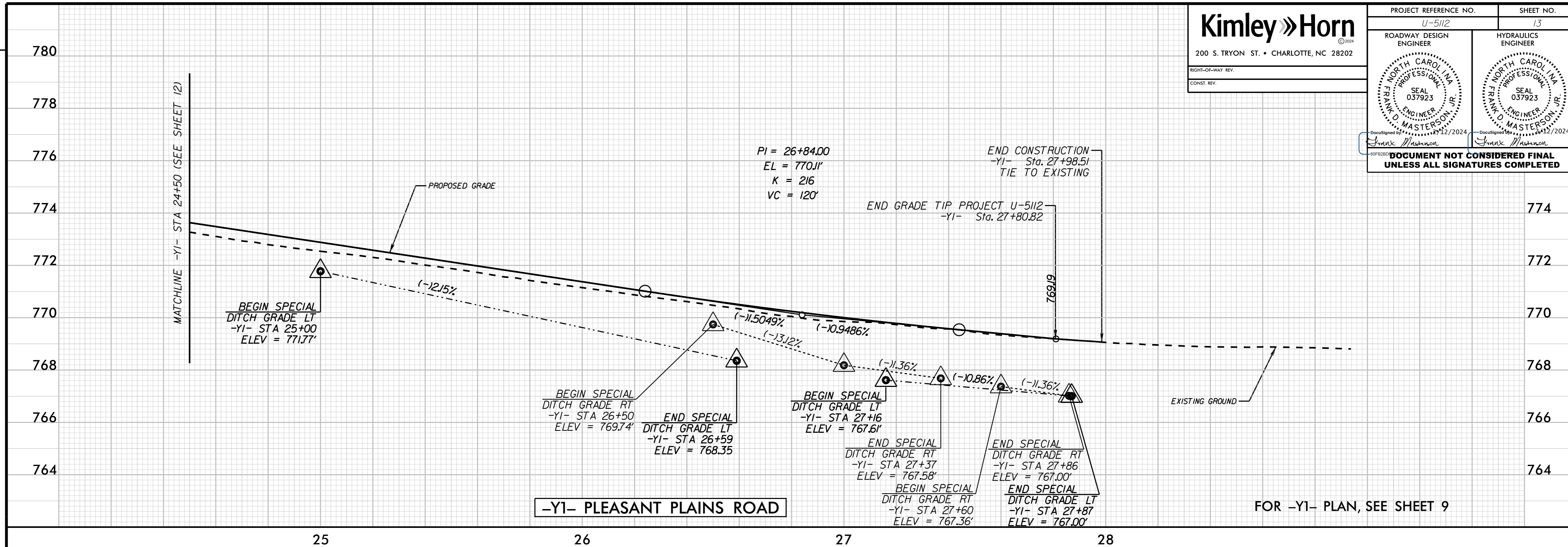
**-Y1- PLEASANT PLAINS ROAD**

FOR -Y1- PLAN, SEE SHEET 5

11/13/2017



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 UNLESS ALL SIGNATURES COMPLETED**



REVISIONS