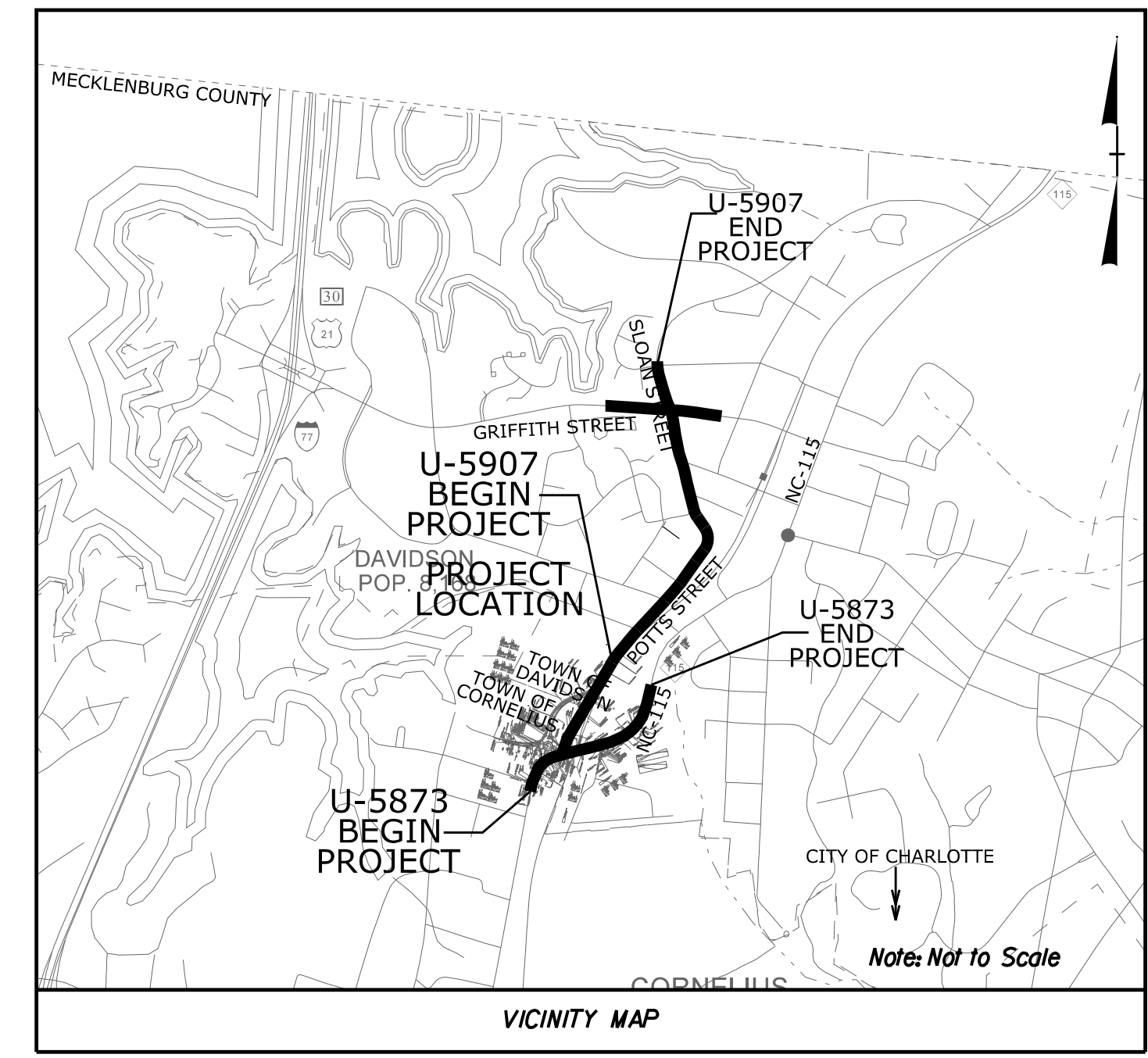


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5873 / U-5907	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46425.1.1	N/A	U-5873 (P.E.)	
46452.1.1	N/A	U-5907 (P.E.)	
46425.2.1	N/A	U-5873 (RW & UTIL)	
46452.2.1	N/A	U-5907 (RW & UTIL)	
46425.3.1	0115014	U-5873 (CONST.)	
46452.3.1	N/A	U-5907 (CONST.)	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
MECKLENBURG COUNTY

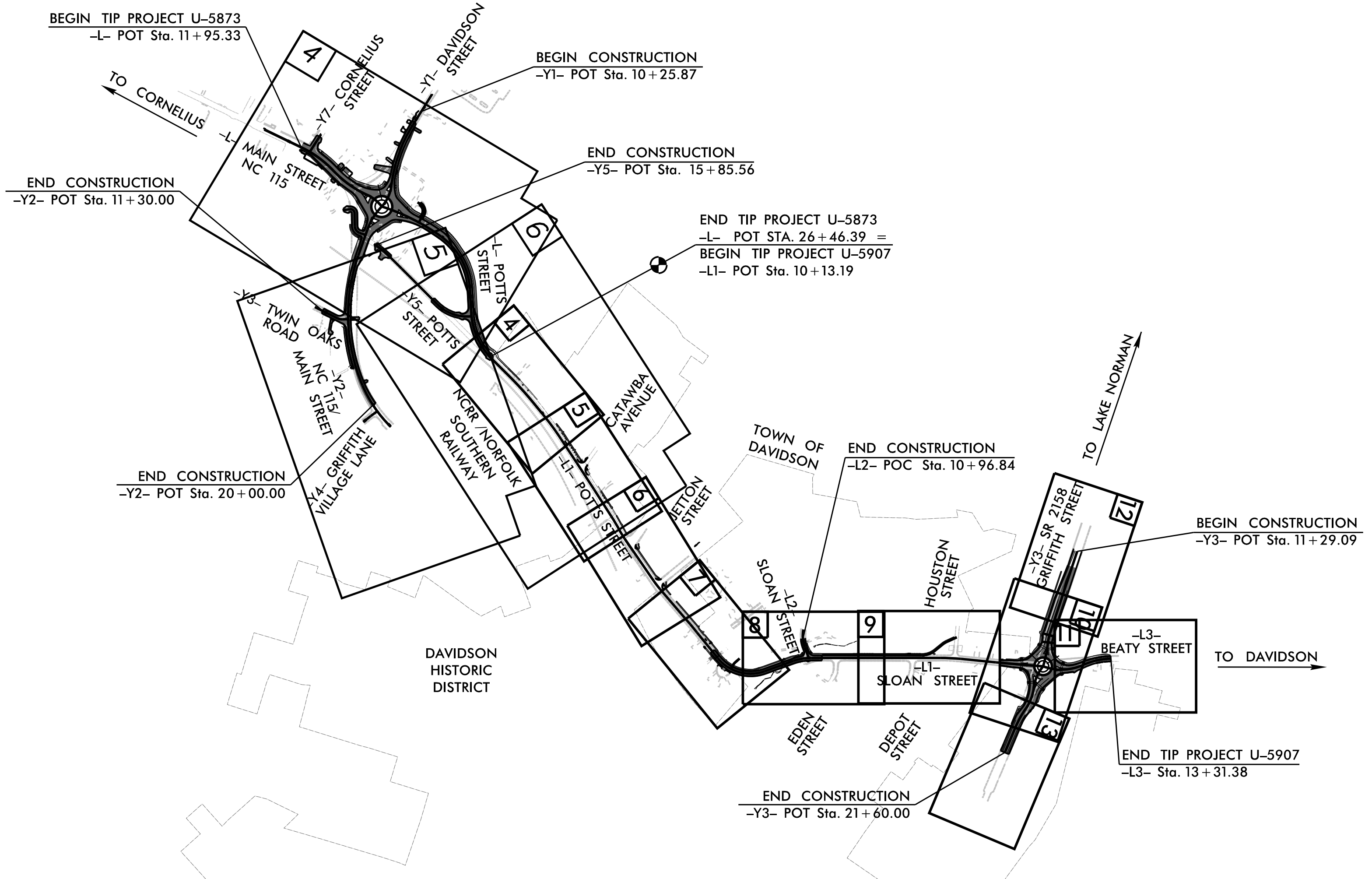
TIP PROJECT: U-5907/U-5873

CONTRACT: C204431



LOCATION: ROUNDABOUTS AT NC-115 (MAIN ST)/DAVIDSON ST/POTTS ST AND SR-6038 (SLOAN ST)/GRIFFITH ST/BEATY ST AND NEW LOCATION FROM SR-6037 (POTTS ST) TO SR-6038 (SLOAN ST)

TYPE OF WORK: GRADING, PAVING, SIGNAL & DRAINAGE



NCDOT CONTACT:
DONALD C. GRIFFITH
NCDOT - DIVISION 10
716 W. MAIN STREET
ALBEMARLE, NC 28001

DESIGN DATA - U-5873

ADT 2023 = 19,570 VPD
ADT 2043 = 29,080 VPD

K = 10%
D = 50%
T = 15%
V = 35 MPH

SUB REGIONAL TIER
* 5% TTST 10% DUAL

FUNCTIONAL URBAN
CLASSIFICATION: COLLECTOR

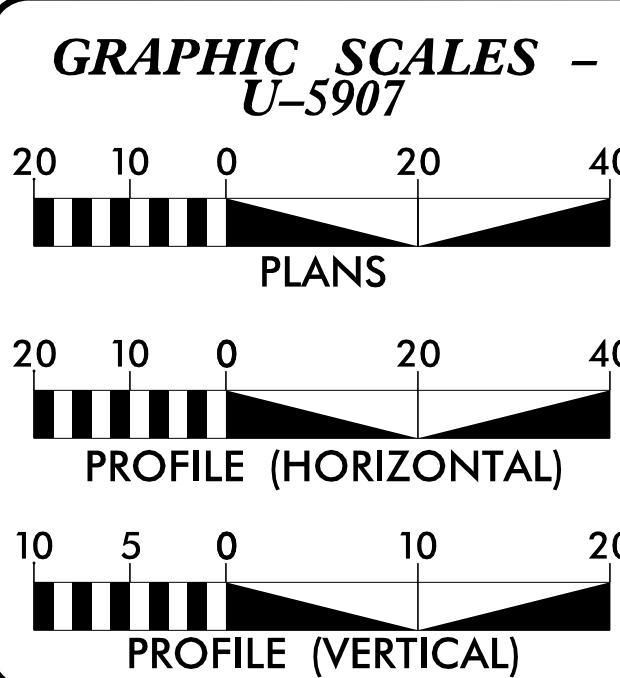
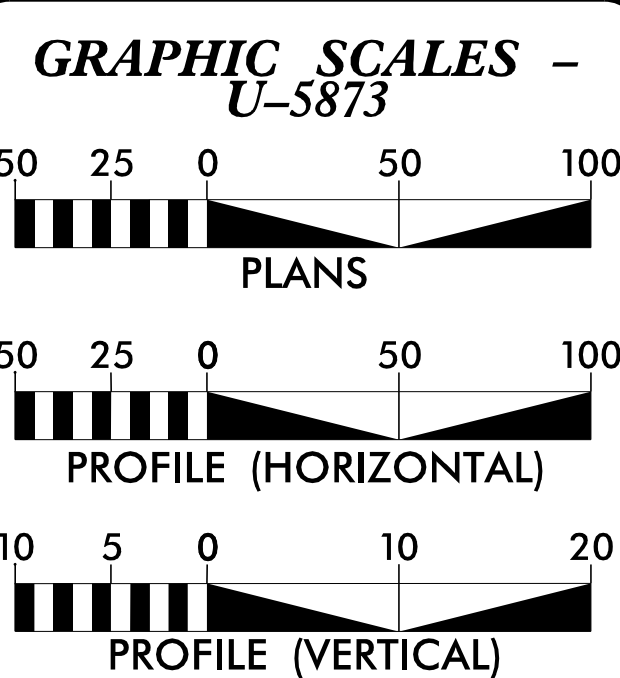
DESIGN DATA - U-5907

ADT 2023 = 7,930 VPD
ADT 2043 = 11,780 VPD

K = 10%
D = 57%
T = 15%
V = 30 MPH

SUB REGIONAL TIER
* 5% TTST 10% DUAL

FUNCTIONAL URBAN
CLASSIFICATION: COLLECTOR



PROJECT LENGTH

U-5873
LENGTH ROADWAY TIP PROJECT U-5873 = 0.275 MILES
TOTAL LENGTH TIP PROJECT U-5873 = 0.275 MILES

U-5907
LENGTH ROADWAY TIP PROJECT U-5907(L1) = 0.639 MILES
LENGTH ROADWAY TIP PROJECT U-5907(L3) = 0.063 MILES
TOTAL LENGTH TIP PROJECT U-5907 = 0.702 MILES

GRAND TOTAL LENGTH TIP PROJECT U-5873/U-5907 = 0.977 MILES

PLANS PREPARED FOR THE NCDOT BY:

Kimley»Horn

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
U-5873 11/01/2022

RIGHT OF WAY DATE:
U-5907 11/01/2022

LETTING DATE:
12/19/2023

FRANK MASTERSON, P.E.
PROJECT ENGINEER

ANDREW WEEKS, E.I.
PROJECT DESIGN ENGINEER

DONALD C. GRIFFITH
NCDOT CONTACT
DM-STIP PROJECT MANAGER

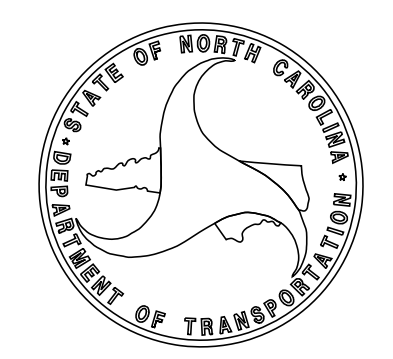
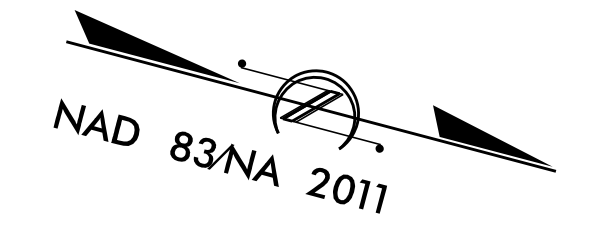
HYDRAULICS ENGINEER

DocuSigned by:
Jason Lewis
10/25/2023
SEAL 032615
JASON D. LAWRENCE
P.E.

ROADWAY DESIGN ENGINEER

DocuSigned by:
Frank Masterson
10/24/2023
SEAL 037923
FRANK D. MASTERSON
P.E.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
U-5873 & U-5907	1A

SHEET NUMBER	INDEX OF SHEETS
I	TITLE SHEET (U-5873/ U-5907)
IA	INDEX OF SHEETS, GENERAL NOTES, LIST OF ROADWAY STANDARD DRAWINGS
IB	CONVENTIONAL SYMBOLS SHEET

SHEET NUMBER	INDEX OF SHEETS
I	TITLE SHEET (U-5873)
2A-1 THRU 2A-4	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND MISCELLANEOUS DETAILS
2B-1	ROUNDBOUT DETAIL
2B-2	CURB PROFILE SHEET
2B-3	DRIVEWAY GEOMETRY SHEET
2B-4	SCHOOL DETAIL SHEET
2B-5	PEDESTRIAN SAFETY RAIL DETAIL
2C-1	CURB RAMP DETAILS
2C-2	GUARDRAIL DETAIL
2C-3	8'X12' OR 18" CURB TRANSITION TO 2'-6" CURB AND GUTTER SECTION TRANSITION SECTION
2D-1	DITCH DETAIL
3B-1	EARTHWORK SUMMARY
3B-2	GUARDRAIL AND PAVEMENT REMOVAL SUMMARY
3D-1 THRU 3D-2	SUMMARY OF DRAINAGE QUANTITIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SHEET
4 THRU 6A	PLAN SHEETS
7 THRU II	PROFILE SHEETS
RW-01 THRU RW-06	RIGHT OF WAY PLANS
TMP-1 THRU TMP-18	TRANSPORTATION MANAGEMENT PLANS (U-5873 & U-5907)
PMP-1 THRU PMP-4	PAVEMENT MARKING PLANS
EC-1 THRU EC-9	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-5	SIGNING PLANS
UC-1 THRU UC-9	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-4	UTILITY BY OTHERS PLANS
X-1	CROSS-SECTION INDEX
X-1A	CROSS-SECTION SUMMARY
X-2 THRU X-24	CROSS-SECTIONS
W-1 THRU W-2	RETAINING WALL DETAILS

SHEET NUMBER	INDEX OF SHEETS
I	TITLE SHEET (U-5907)
2A-1 THRU 2A-5	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND MISCELLANEOUS DETAILS
2B-1	ROUNDBOUT DETAIL
2B-2	CURB PROFILE SHEET
2B-3	MISCELLANEOUS DETAILS
2B-4	TEMPORARY TREE PROTECTION DETAIL
2B-5	BRIDGING TREE ROOTS DETAIL
2B-6	DETAIL OF 8'X12' CURB TO VALLEY CURB TRANSITION SECTION
2B-7	DETAIL OF 6'-6" TO 0'-6" CURB AND GUTTER TRANSITION SECTION
2C-1	PROPOSED PEDESTRIAN SAFETY RAIL DETAIL
2C-2	CATCH BASIN DETAIL
2C-3	GUARDRAIL INSTALLATION DETAIL
2C-4	DETAIL OF 1'-6" TO 2'-6" CURB AND GUTTER TRANSITION SECTION
2C-5	DETAIL OF 2'-6" TO VALLEY GUTTER TRANSITION SECTION
2C-6	CURB RAMPS DETAIL
2D-1	DITCH DETAIL
3B-1	SUMMARY OF EARTHWORK
3B-2	SUMMARIES OF GUARDRAIL AND PAVEMENT REMOVAL
3D-1 THRU 3D-2	DRAINAGE SUMMARY SHEETS
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SHEET
4 THRU 13A	PLAN SHEETS
14 THRU 17	PROFILE SHEETS
RW-01 THRU RW-13	RIGHT OF WAY PLANS
TMP	TRANSPORTATION MANAGEMENT PLANS (SEE U-5873 TMP)
PMP-1 THRU PMP-11	PAVEMENT MARKING PLANS
EC-1 THRU EC-23	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-11	SIGNING PLANS
SIG-1.0 THRU SIG-6.3	SIGNAL PLANS
SIG.MI THRU SIG.M8	METAL POLE PLANS
UC-1 THRU UC-15	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-11	UTILITY BY OTHERS PLANS
X-1	CROSS-SECTION INDEX
X-1A	CROSS-SECTION SUMMARY
X-2 THRU X-28	CROSS-SECTIONS

GENERAL NOTES: 2018 SPECIFICATIONS EFFECTIVE: 01-16-2018 REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING: 2018 ROADWAY ENGLISH STANDARD DRAWINGS

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.

SHOULDER CONSTRUCTION: ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

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.

SUBSURFACE DRAINS: SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS: DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADIUS OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

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 RADIUS NOTED ON PLANS.

GUARDRAIL: THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

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, AT&T (COMMUNICATIONS), CHARTER (CATV), PIEDMONT NATURAL GAS, CITY OF CHARLOTTE (WATER & SEWER), ELECTRICITIES OF NC, SPECTRUM, DUKE NET, WINDSTREAM, SEGRA, MCNC, CONTERRA, CENTURY LINK, DOMINION ENERGY (GAS), TDS CONTINUUM (COMMUNICATIONS).

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT-OF-WAY MARKERS: ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

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

EFF. 01-16-2018 REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 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 Super-elevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Super-elevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
815.02	Subsurface Drain
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.04	Concrete Open Throat Catch Basin - 12" thru 48" Pipe
840.05	Brick Open Throat Catch Basin - 12" thru 48" Pipe
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
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.24	Frames and Narrow Slot Sag Grates
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
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
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.03	Driveway Turnout - Drop Curb Type
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
852.01	Concrete Islands
852.02	Concrete Mountable Median - for Use with Rigid or Flexible Pavement
857.01	Precast Reinforced Concrete Barrier - 41" Single Faced
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

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)	○ EIP
Computed Property Corner	X
Existing Concrete Monument (ECM)	□ ECM
Parcel/Sequence Number	(23)
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	-----
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	---C---
Proposed Slope Stakes Fill	---F---
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.

09/10/2021

10/9/2023

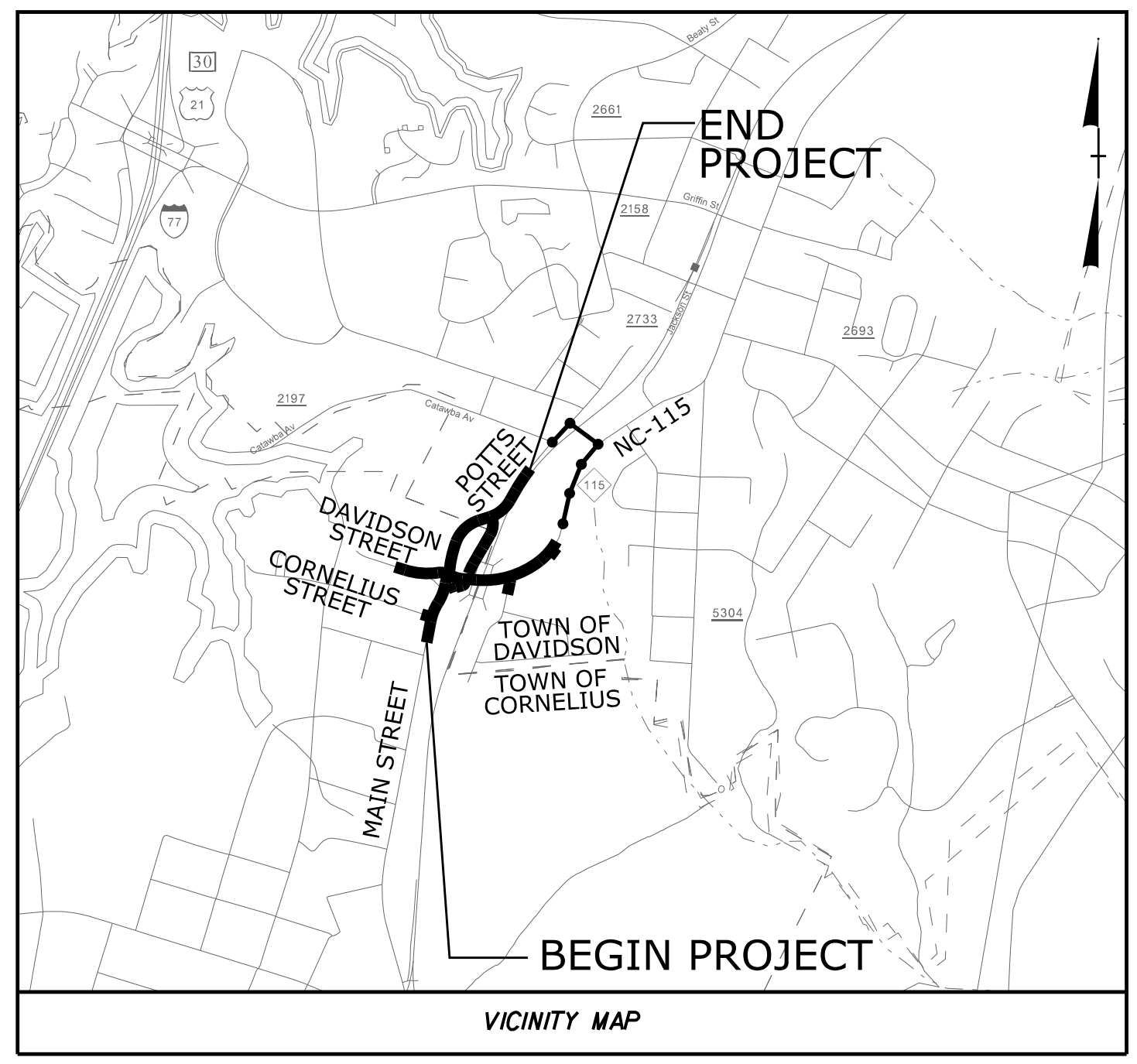
TIP PROJECT: U-5873

CONTRACT: C204431

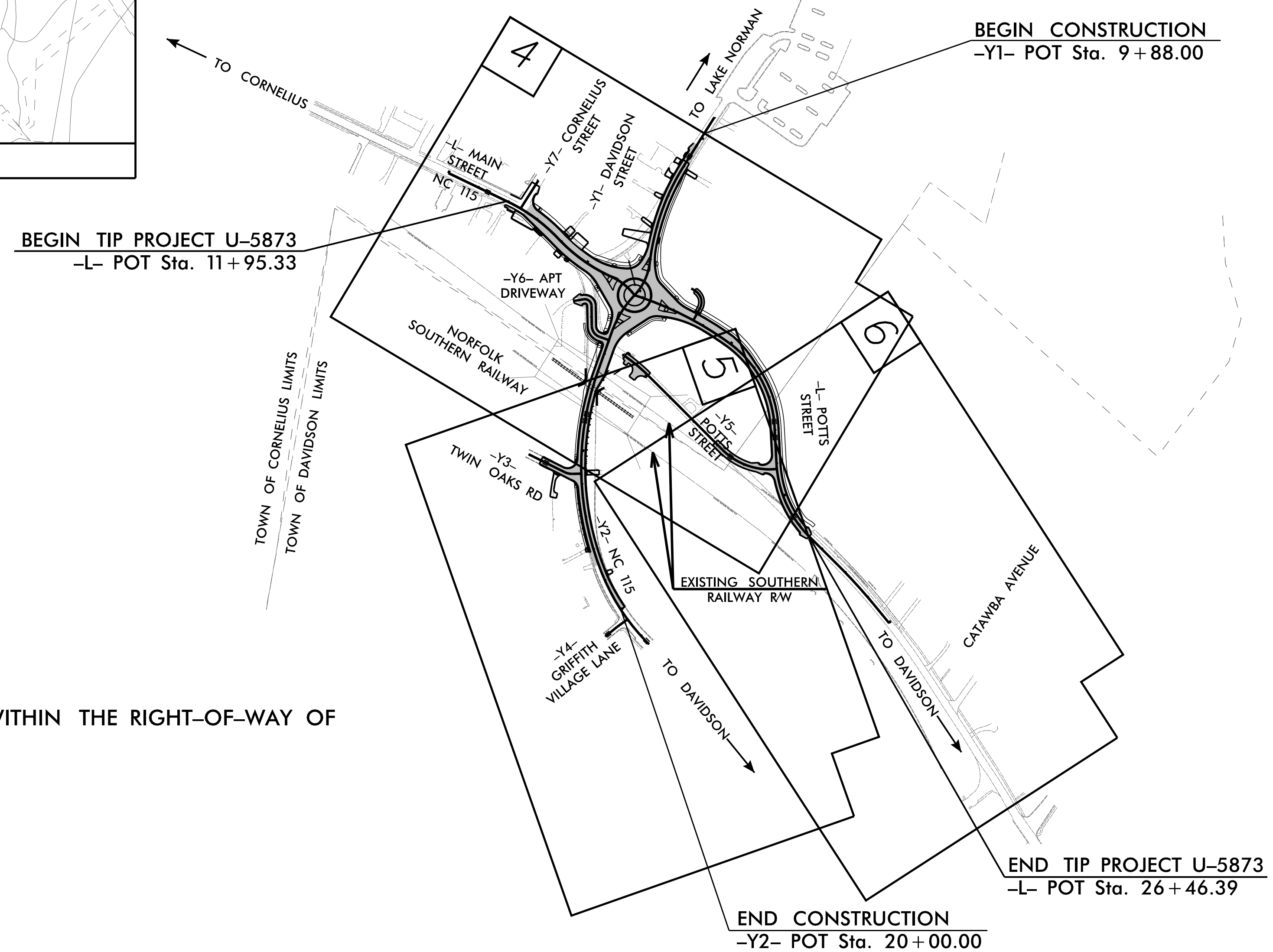
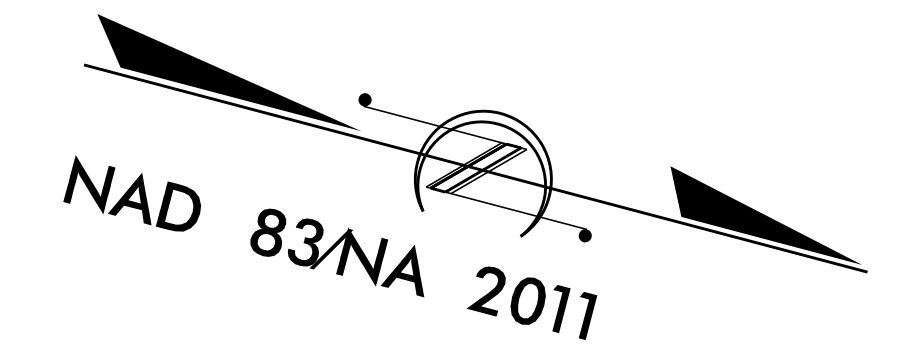
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5873	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46425.1.1	N/A	PE	
46425.2.1	N/A	R/W & UTIL	
46425.3.1	0115014	CONST.	



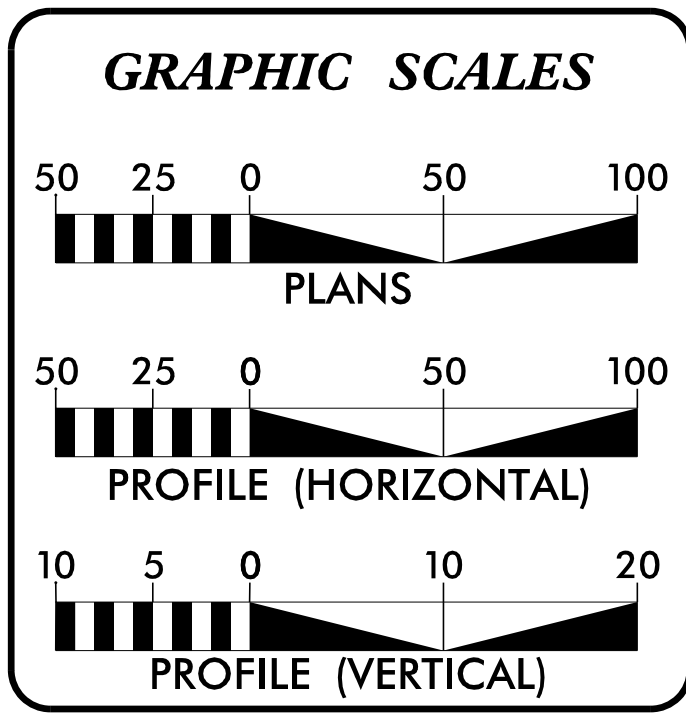
LOCATION: ROUNDABOUT AT NC-115 (MAIN ST)/DAVIDSON ST/POTTS ST
TYPE OF WORK: GRADING, DRAINAGE, AND PAVING



A PORTION OF THIS PROJECT IS LOCATED WITHIN THE RIGHT-OF-WAY OF NORFOLK SOUTHERN RAILROAD

NCDOT CONTACT:
DONALD C GRIFFITH
NCDOT - DIVISION 10
716 W. MAIN STREET
ALBEMARLE, NC 28001

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

-L- MAIN STREET

ADT 2023	=	19,570 VPD
ADT 2043	=	29,080 VPD
K	=	10%
D	=	50%
T	=	2%
V	=	35 MPH

FUNCTIONAL CLASSIFICATION: ARTERIAL

URBAN CLASSIFICATION: ARTERIAL

* 5% TTST 10% DUAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5873 = 0.275 MILES

TOTAL LENGTH TIP PROJECT U-5873 = 0.275 MILES

PLANS PREPARED FOR THE NCDOT BY:

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 11-1-2022

LETTING DATE: 12-19-2023

Kimley»Horn

FRANK MASTERSON, P.E.
PROJECT ENGINEER

DJ BEAVER, P.E.
PROJECT DESIGN ENGINEER

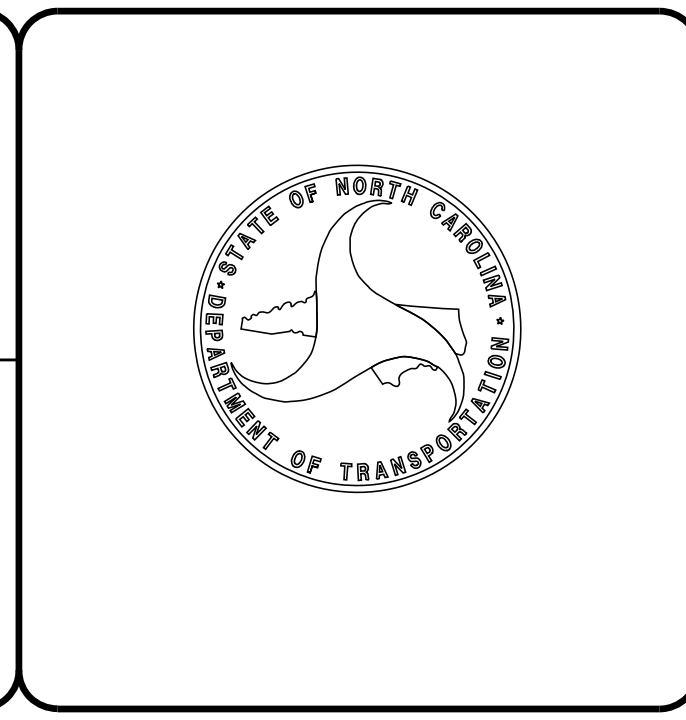
DONALD C. GRIFFITH
NCDOT CONTACT
DM-STIP PROJECT MANAGER

HYDRAULICS ENGINEER

DocuSigned by:
Jason Lawing
10/25/2023
P.E.

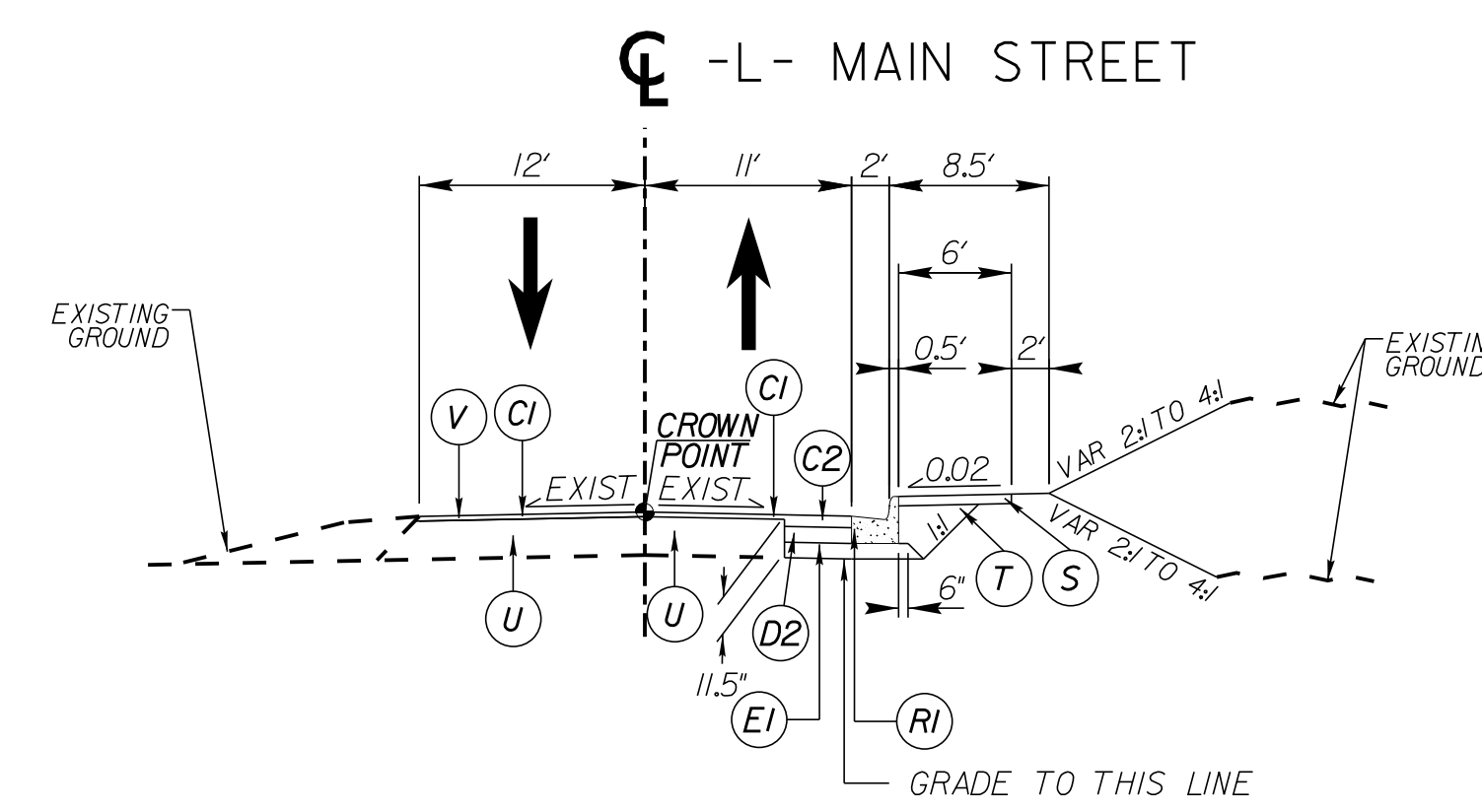
ROADWAY DESIGN ENGINEER

DocuSigned by:
Frank Masterson
10/24/2023
P.E.

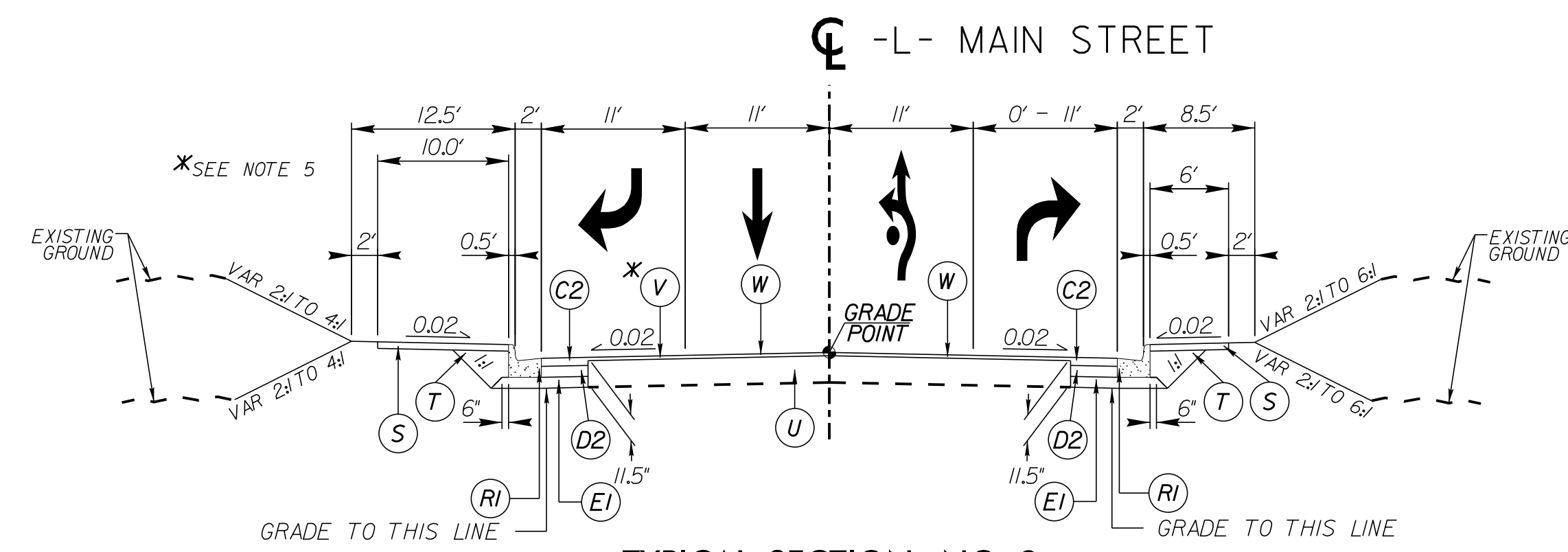


PROJECT REFERENCE NO. U-5873	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
10/26/2023	10/26/2023

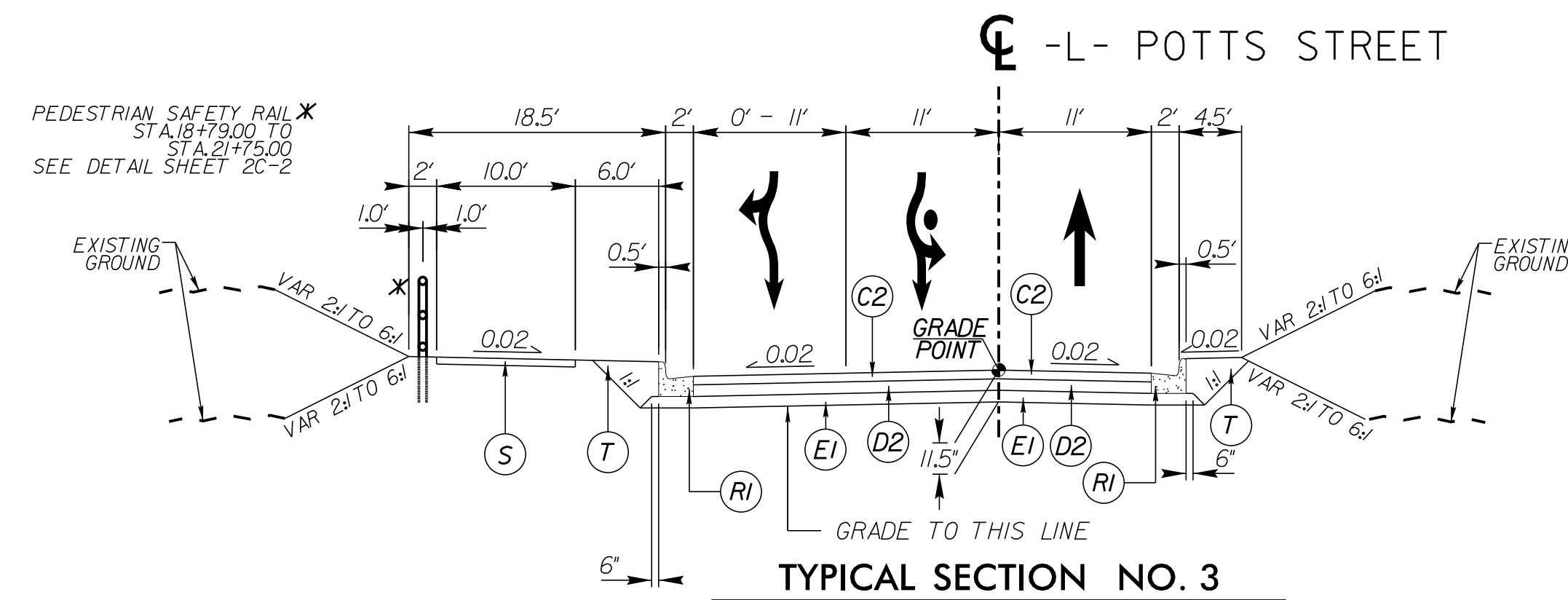
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



TYPICAL SECTION NO. 1
-L- Sta.11+95.33 TO Sta.12+50.00



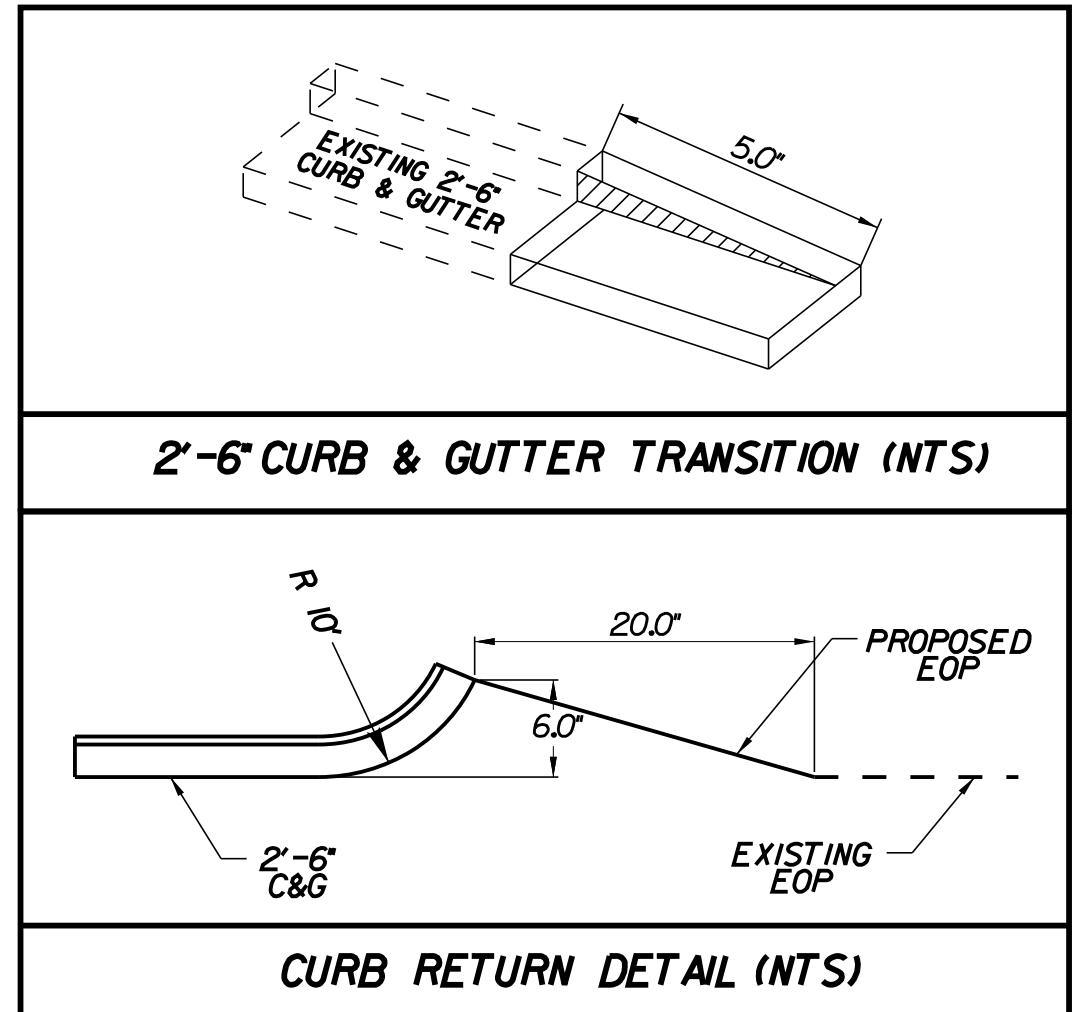
TYPICAL SECTION NO. 2
-L- Sta.12+50.00 TO Sta.16+24.53



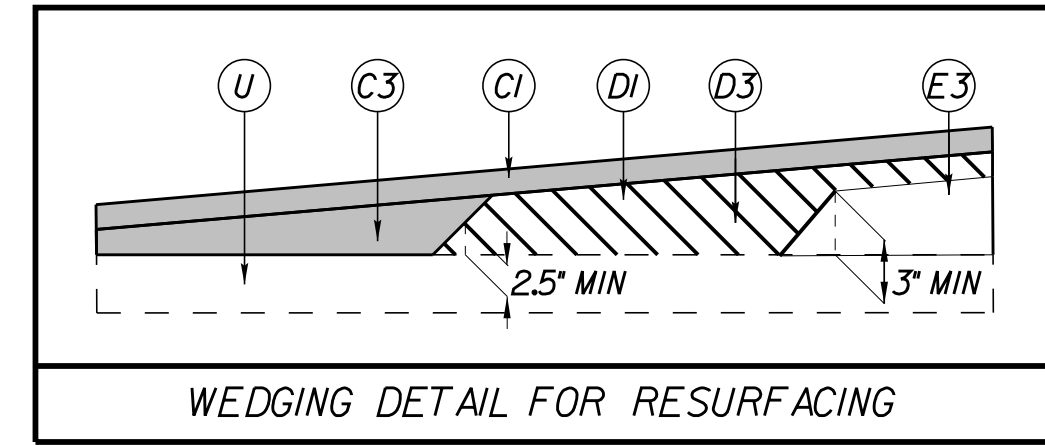
TYPICAL SECTION NO. 3
-L- Sta.17+24.71 TO Sta.25+65.00

A1	12' TRUCK MOUNTABLE CONCRETE APRON (CLASS AA)
C1	PROPOSED APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S95C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROPOSED APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S95C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROPOSED VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S95C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROPOSED APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I190C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROPOSED APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I190C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D3	PROPOSED VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I190C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROPOSED APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B250C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
E2	PROPOSED APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B250C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E3	PROPOSED VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B250C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" OR GREATER THAN 5.5" IN DEPTH.
R1	PROPOSED 2'-6" CONCRETE CURB & GUTTER
R2	PROPOSED 1'-6" CONCRETE CURB & GUTTER
R3	PROPOSED 8" x 18" CONCRETE CURB
S	PROPOSED 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	WEDGING

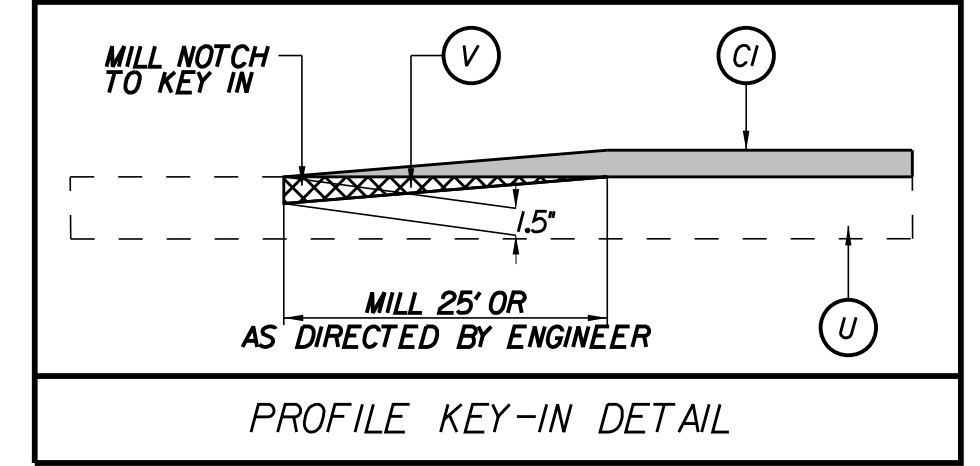
- NOTES:**
- PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED
 - REFER TO PLAN SHEETS FOR VARIABLE WIDTHS
 - SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO PROVIDE 1" MIN FULL DEPTH ASPHALT PAVEMENT
 - UTILIZE WELDED WIRE MESH (16x6 W5xW5) IN ALL PROPOSED 12' TRUCK MOUNTABLE APRONS
 - EDGE MILL APPROXIMATELY 1 LANE -L- STA.14+00.00 TO -L- STA.15+00.00



CURB RETURN DETAIL (NTS)



WEDGING DETAIL FOR RESURFACING



PROFILE KEY-IN DETAIL

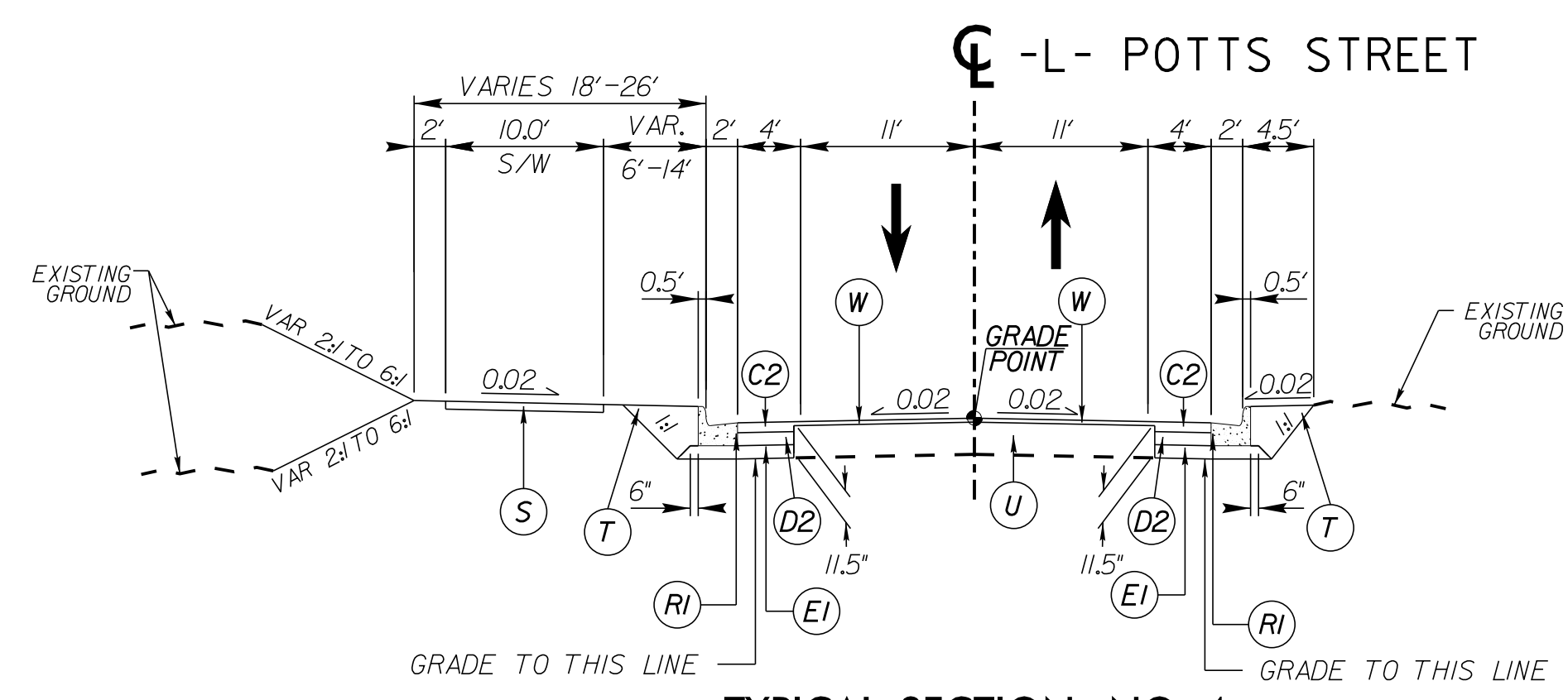
5/14/99

Kimley»Horn

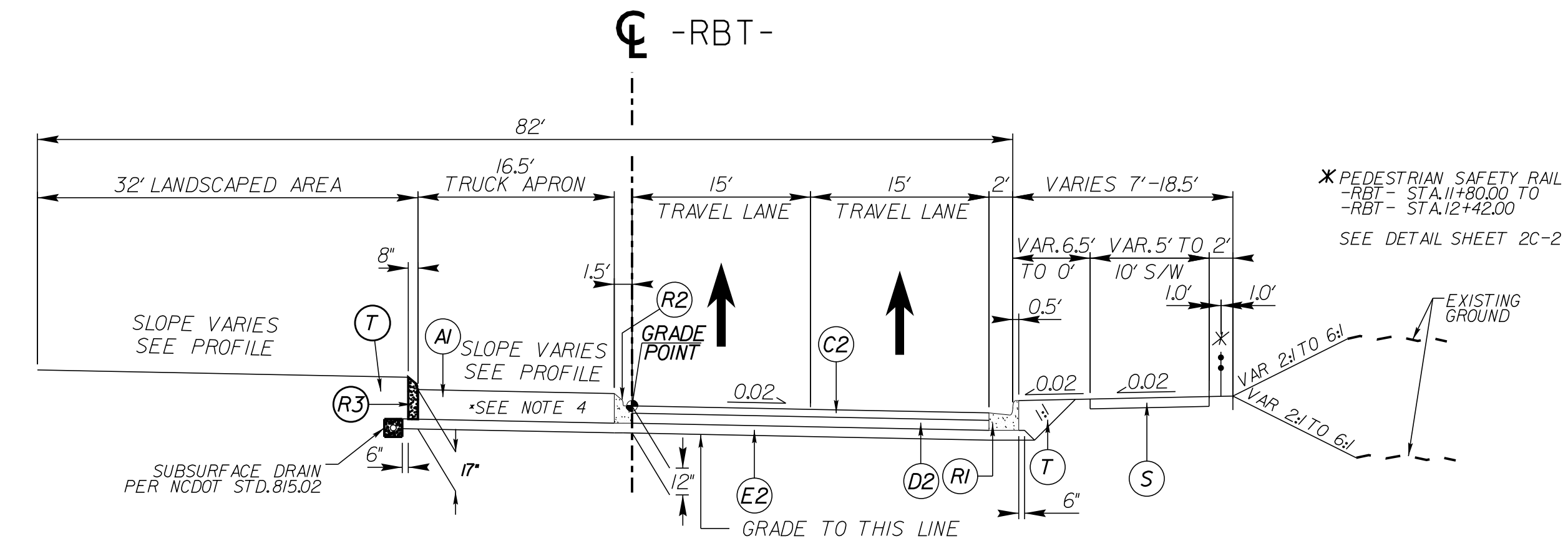
NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5873	SHEET NO. 2A-2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
10/26/2023	10/26/2023

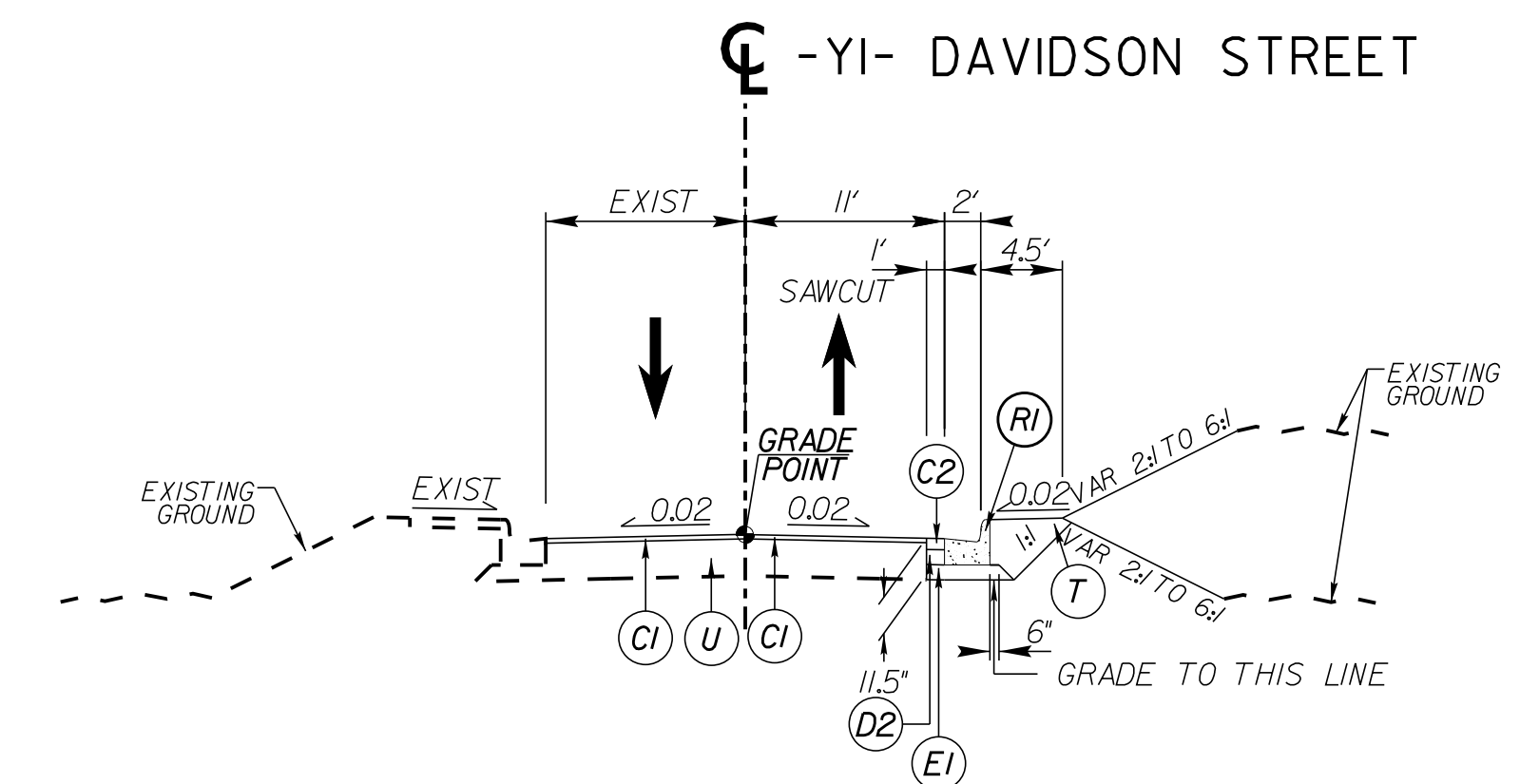
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



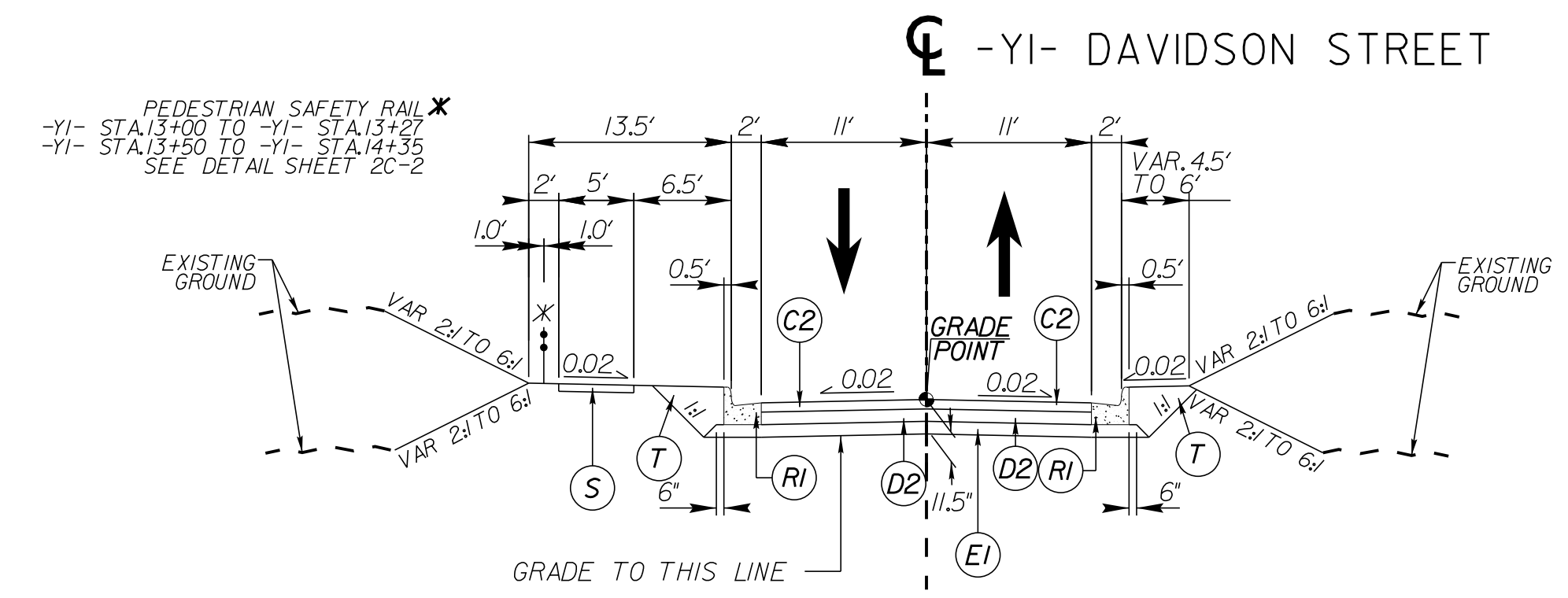
TYPICAL SECTION NO. 4
-L- Sta.25+65.00 TO Sta.26+46.39



TYPICAL SECTION NO. 5
-RBT- Sta.10+00.00 TO Sta.13+14.16



TYPICAL SECTION NO. 6
-Y1- Sta.10+45.80 TO Sta.11+50.00



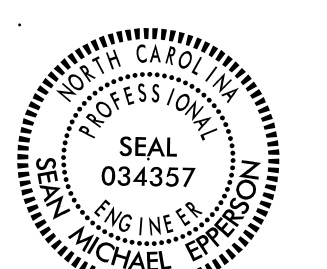
TYPICAL SECTION NO. 7
-Y1- Sta.11+50.00 TO Sta.14+69.95

PAVEMENT SCHEDULE
(FINAL PAVEMENT DESIGN)

A1	12" TRUCK MOUNTABLE CONCRETE APRON (CLASS AA)
C1	15" S9.5C
C2	3" S9.5C
C3	VAR. DEPTH S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. DEPTH I19.0C
E1	4.5" B25.0C
E2	5" B25.0C
E3	VAR. DEPTH B25.0C
R1	2'-6" CONCRETE CURB & GUTTER
R2	1'-6" CONCRETE CURB & GUTTER
R3	8' x 18" CONCRETE CURB & GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	WEDGING

NOTES:
1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED
2. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS
3. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO PROVIDE 1" MIN FULL DEPTH ASPHALT PAVEMENT
4. UTILIZE WELDED WIRE MESH (6x6 W5xW5) IN ALL PROPOSED 12" TRUCK MOUNTABLE APRONS

10/26/2023



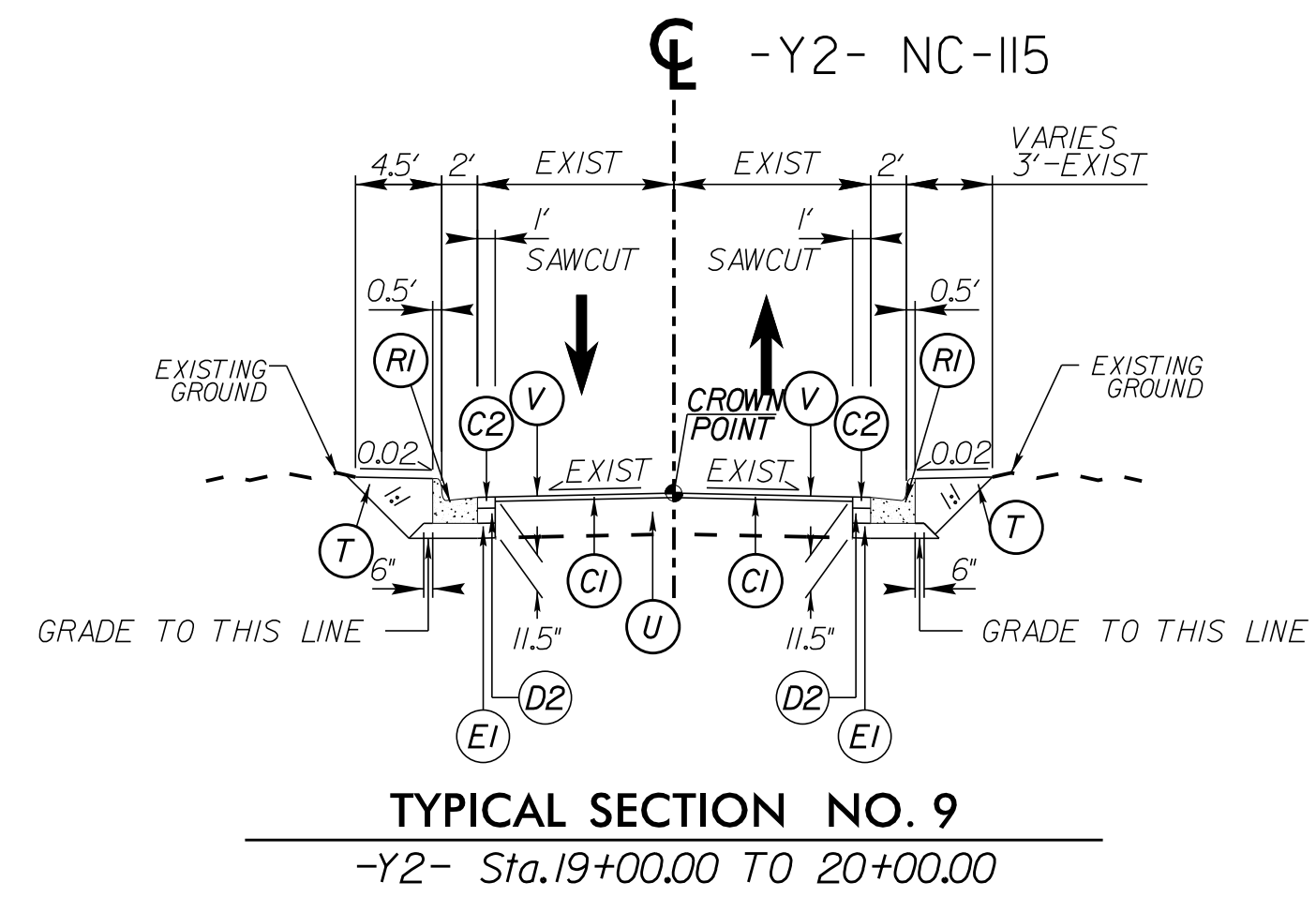
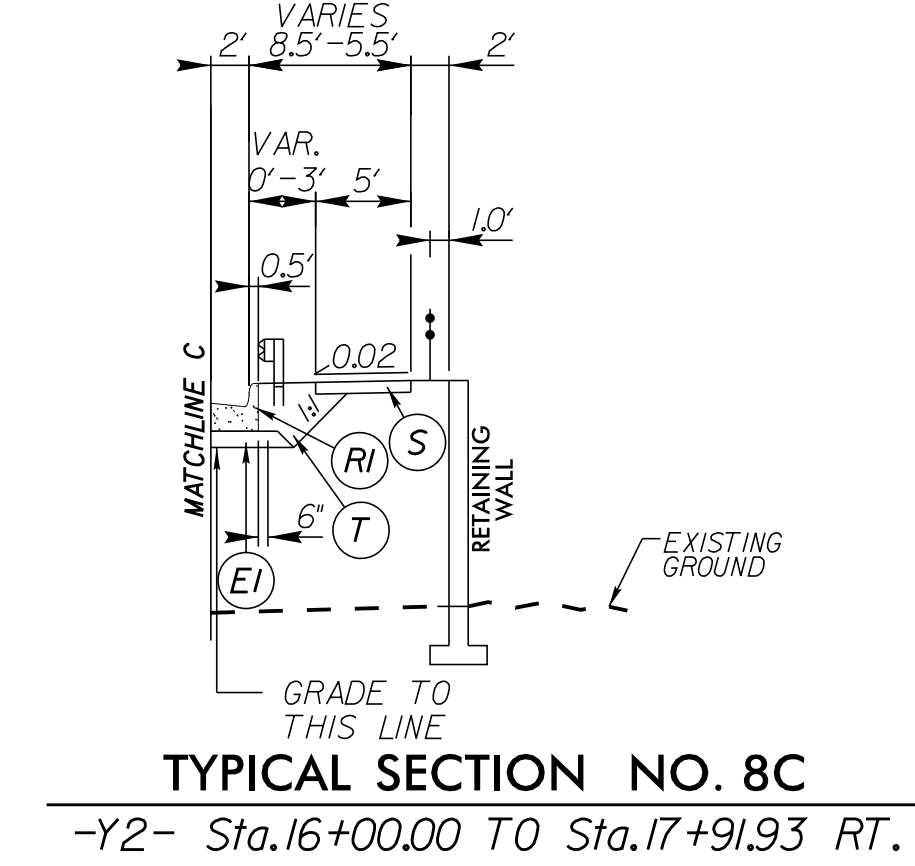
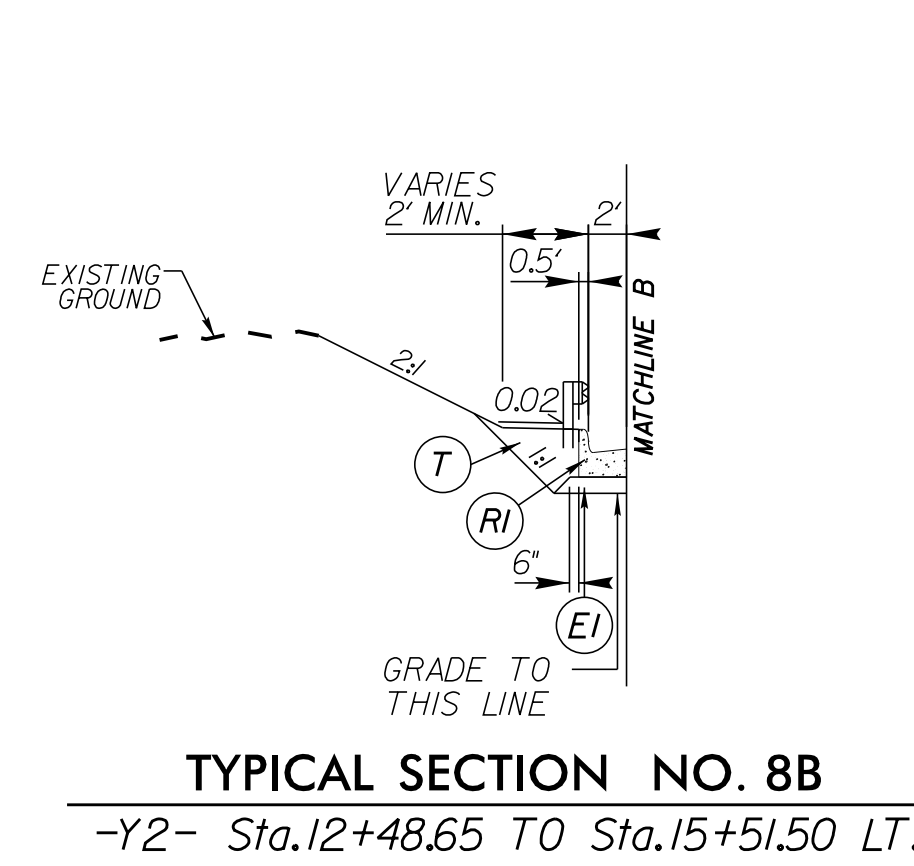
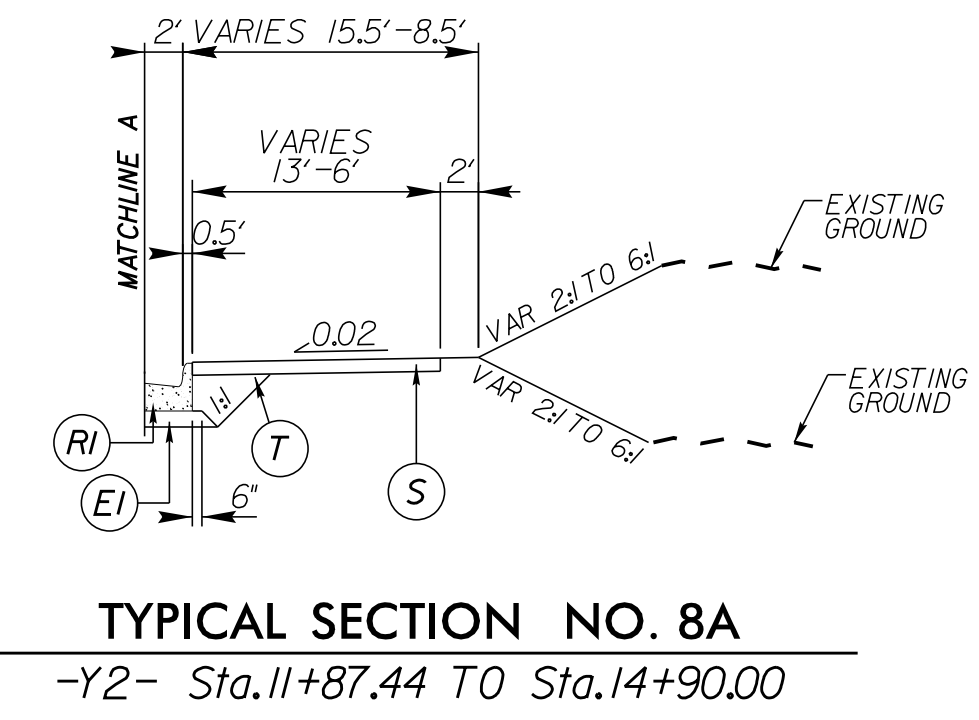
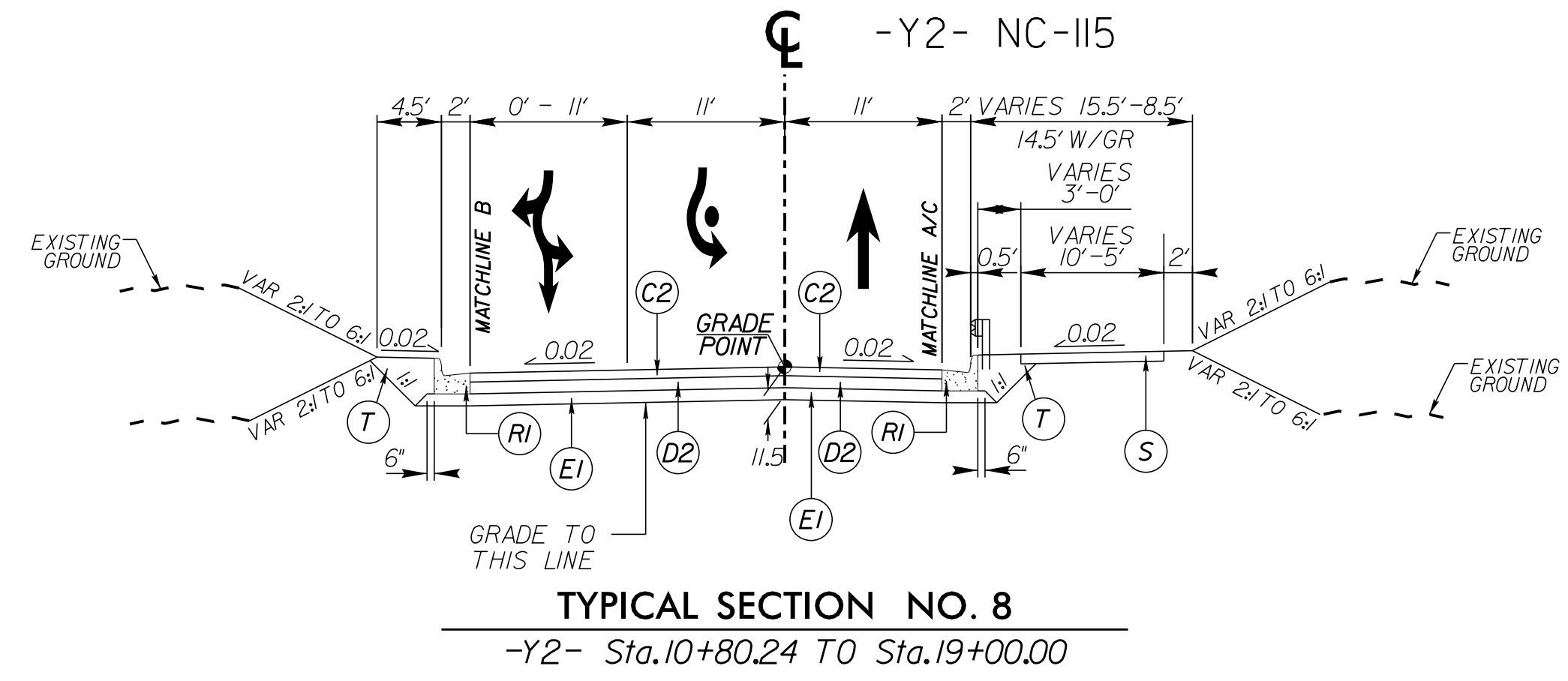
DocuSign
10/26/2023 10/26/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

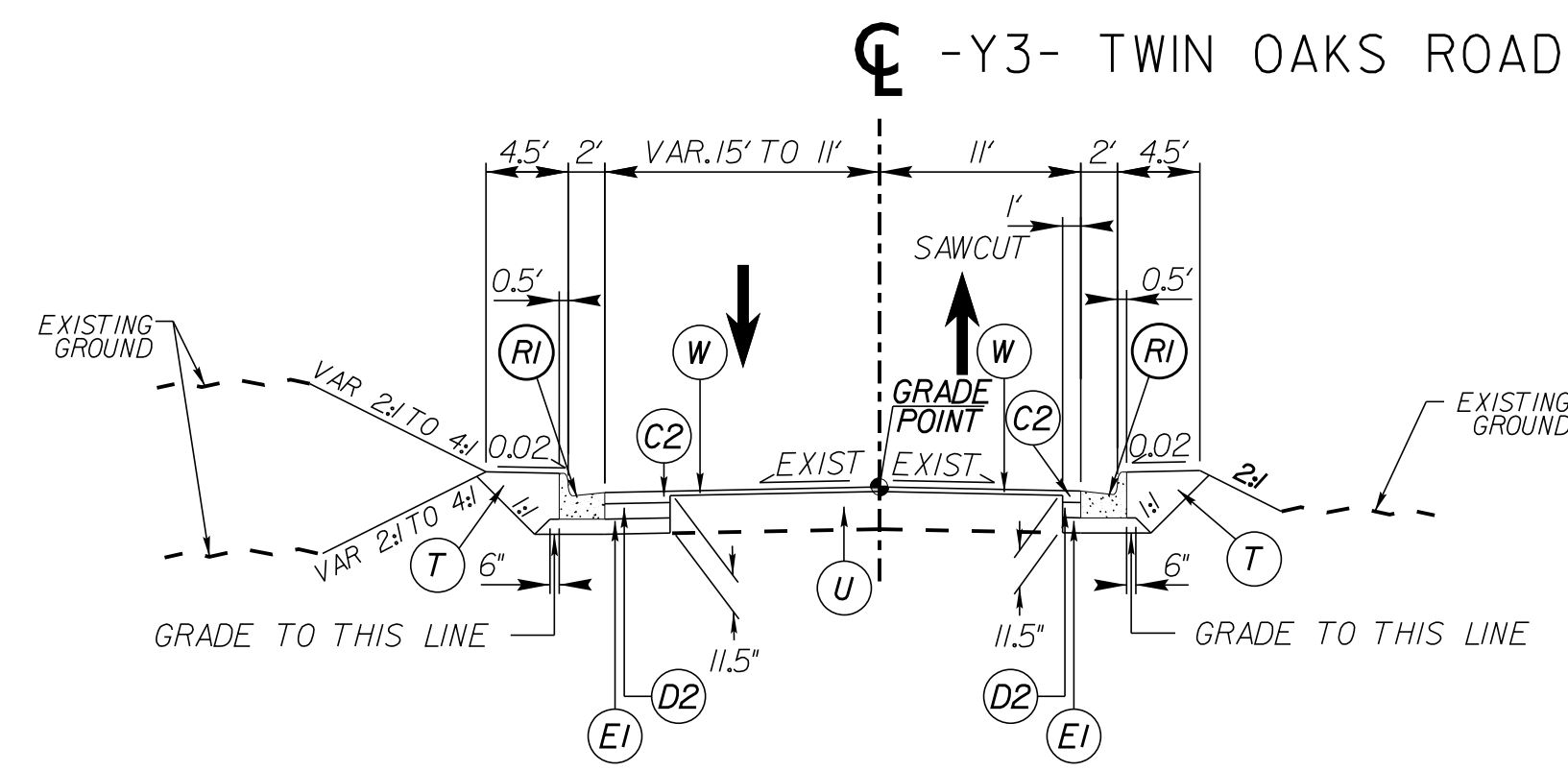
PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)

A1	12" TRUCK MOUNTABLE CONCRETE APRON (CLASS AA)
C1	15' S9.5C
C2	3' S9.5C
C3	VAR. DEPTH S9.5C
D1	2.5' I19.0C
D2	4' I19.0C
D3	VAR. DEPTH I19.0C
E1	4.5' B25.0C
E2	5' B25.0C
E3	VAR. DEPTH B25.0C
R1	2'-6" CONCRETE CURB & GUTTER
R2	1'-6" CONCRETE CURB & GUTTER
R3	8' x 18" CONCRETE CURB & GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	WEDGING

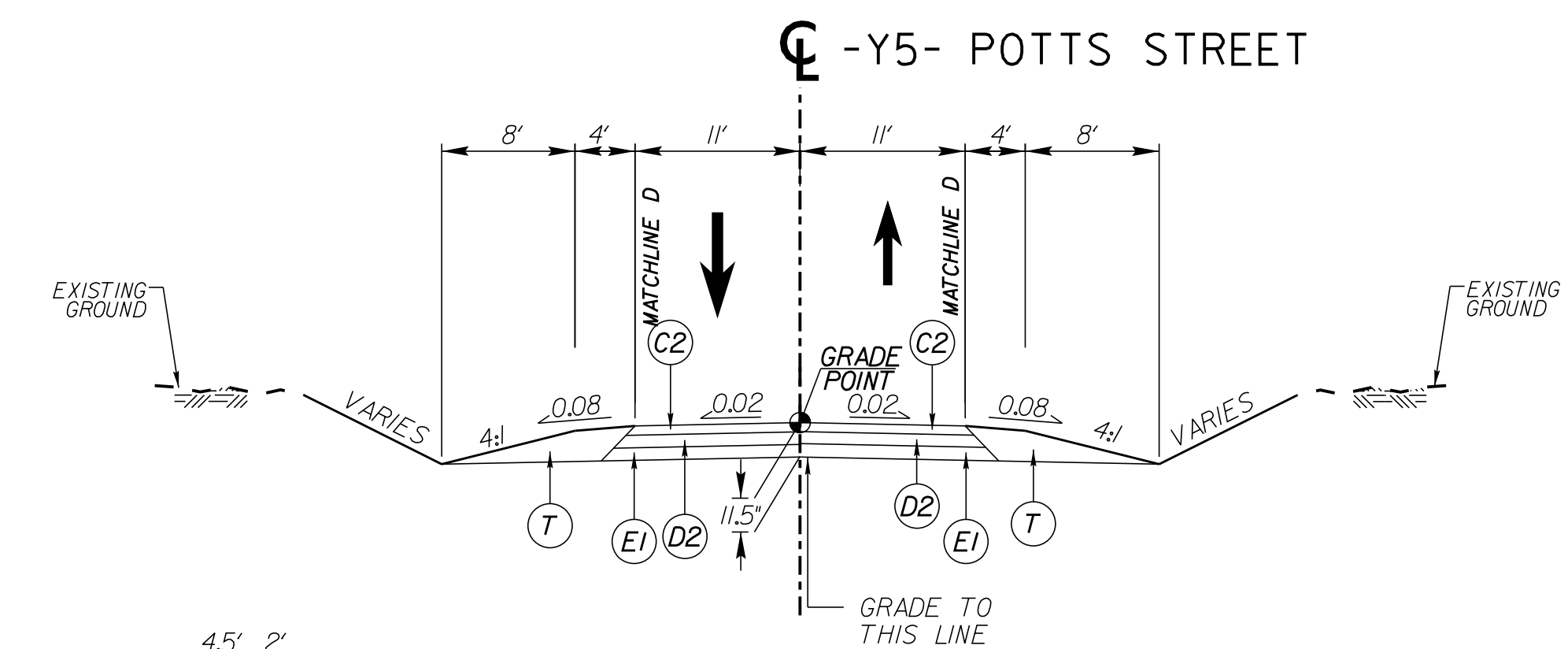
NOTES:
 1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED
 2. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS
 3. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO PROVIDE 1" MIN FULL DEPTH ASPHALT PAVEMENT
 4. UTILIZE WELDED WIRE MESH (6x6 W5xW5) IN ALL PROPOSED 12" TRUCK MOUNTABLE APRONS



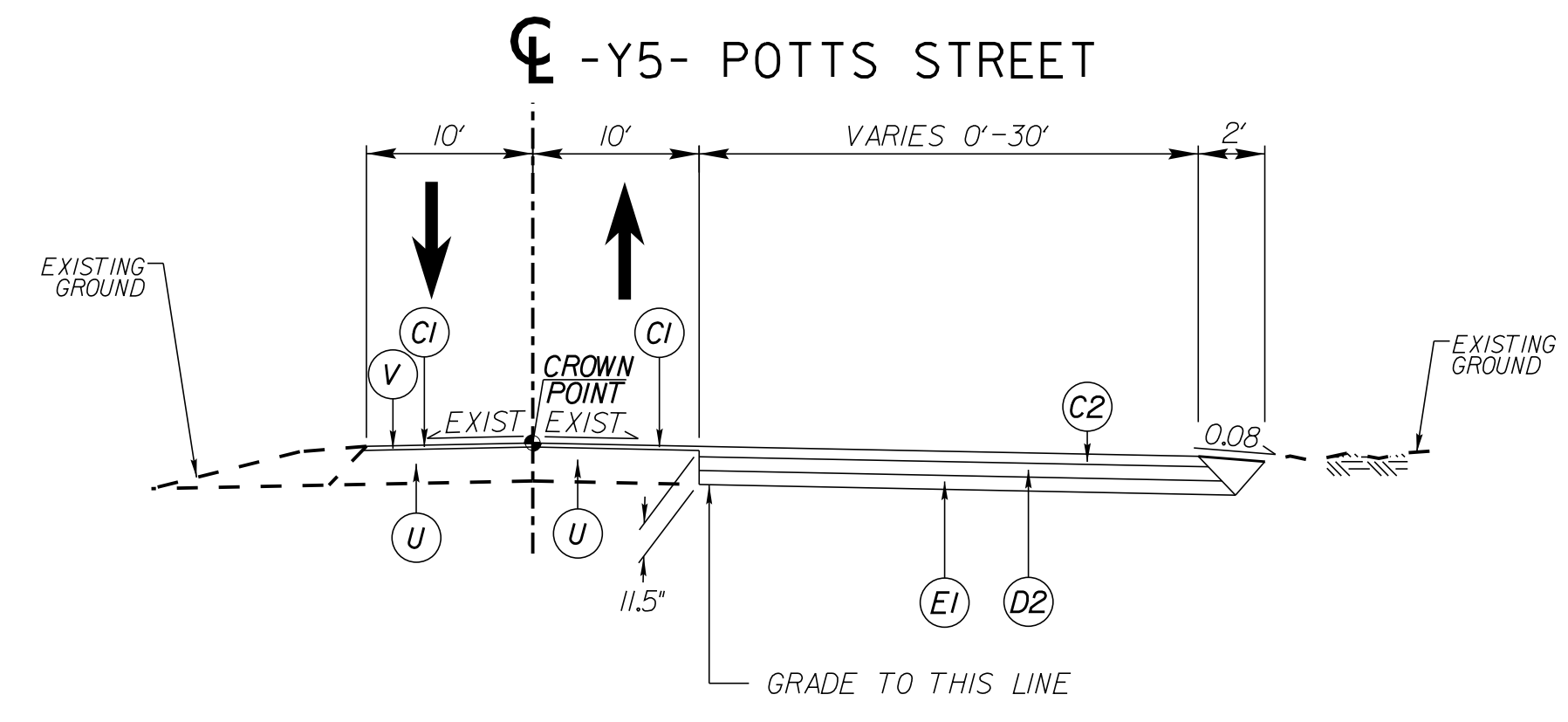
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



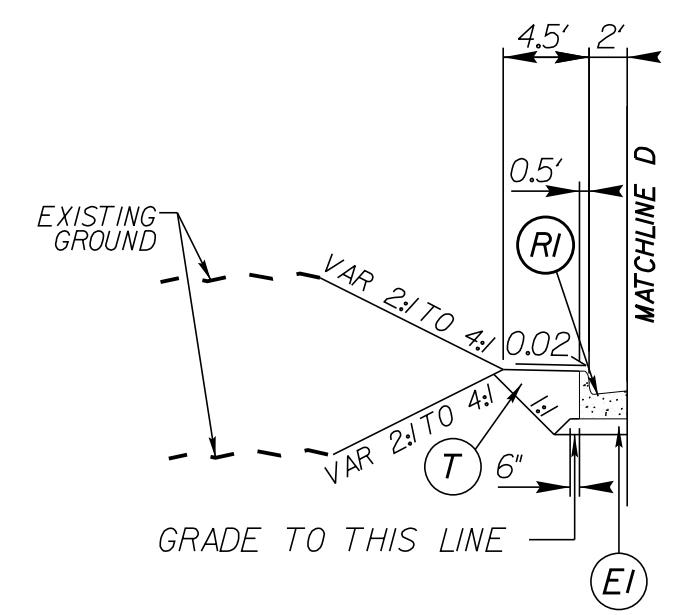
TYPICAL SECTION NO. 10
-Y3- Sta.10+11.00 TO Sta.11+30.00



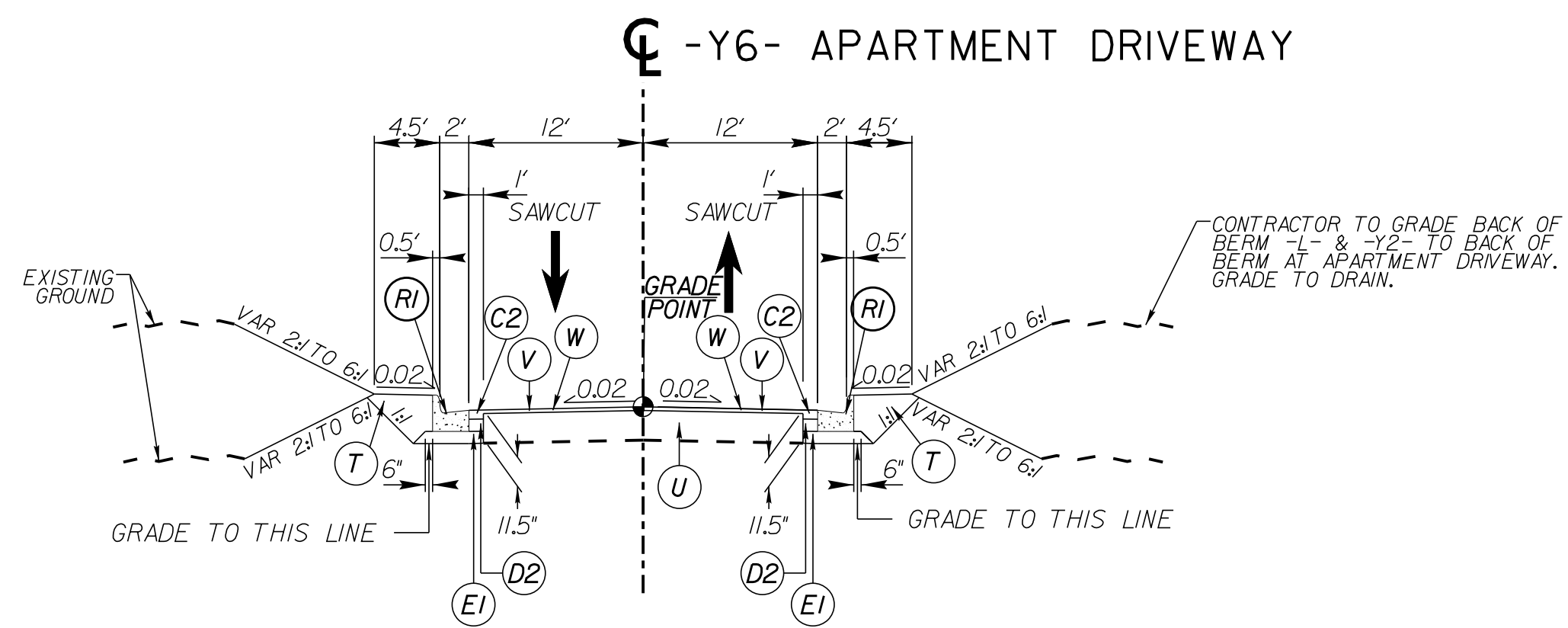
TYPICAL SECTION NO. 11
-Y5- Sta.10+11.39 TO Sta.12+10.00



TYPICAL SECTION NO. 12
-Y5- Sta.14+96J3 TO Sta.15+56J3



TYPICAL SECTION NO. 11A
-Y5- Sta.10+11.39 TO Sta.10+59.49 RT
-Y5- Sta.10+11.39 TO Sta.10+41.25 LT



TYPICAL SECTION NO. 13
-Y6- Sta.10+11.00 TO Sta.11+98.00

PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
A1	12" TRUCK MOUNTABLE CONCRETE APRON (CLASS AA)
C1	1.5" S9.5C
C2	3" S9.5C
C3	VAR. DEPTH S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. DEPTH I19.0C
E1	4.5" B25.0C
E2	5" B25.0C
E3	VAR. DEPTH B25.0C
RI	2'-6" CONCRETE CURB & GUTTER
R2	1'-6" CONCRETE CURB & GUTTER
R3	8' x 18" CONCRETE CURB & GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	WEDGING

NOTES:
1. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE INDICATED
2. REFER TO PLAN SHEETS FOR VARIABLE WIDTHS
3. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT TO PROVIDE 1" MIN FULL DEPTH ASPHALT PAVEMENT
4. UTILIZE WELDED WIRE MESH (6x6 W5xW5) IN ALL PROPOSED 12" TRUCK MOUNTABLE APRONS



ROUNDAABOUT GEOMETRY SHEET

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5873	SHEET NO. 2B-1
ROADWAY DESIGN ENGINEER FRANK MASTERS	HYDRAULICS ENGINEER JASON LEWIS
Professional Engineer Seal FRANK MASTERS 037923	Professional Engineer Seal JASON LEWIS 032615
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

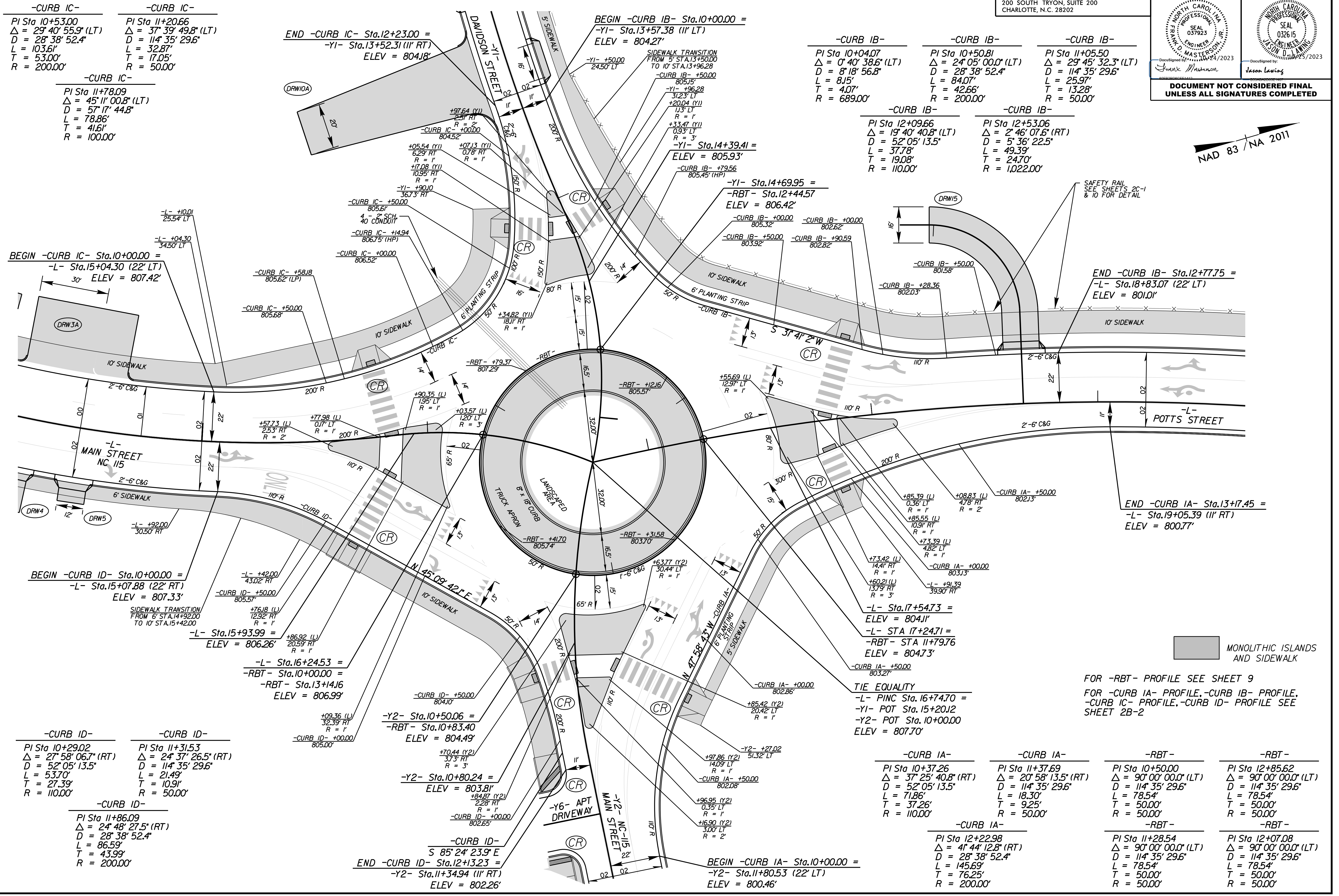
-CURB IC-	-CURB IC-
PI Sta 10+53.00 Δ = 29° 40' 55.9" (LT) D = 28' 38" 52.4" L = 103.61' T = 53.00' R = 200.00'	PI Sta 11+20.66 Δ = 37° 39' 49.8" (LT) D = 11' 35' 29.6" L = 32.87' T = 17.05' R = 50.00'
-CURB IC-	-CURB IC-
PI Sta 11+78.09 Δ = 45° 11' 00.8" (LT) D = 57' 17" 44.8" L = 78.86' T = 41.61' R = 100.00'	

-CURB IC-	-CURB IC-
BEGIN -CURB IC- Sta.10+00.00 = -L- Sta.15+04.30 (22' LT) ELEV = 807.42'	
BEGIN -CURB ID- Sta.10+00.00 = -L- Sta.15+07.88 (22' RT) ELEV = 807.33'	
BEGIN -CURB ID- Sta.10+00.00 = -L- Sta.15+93.99 = ELEV = 806.26'	
BEGIN -CURB ID- Sta.10+00.00 = -L- Sta.16+24.53 = -RBT- Sta.10+00.00 = -RBT- Sta.13+14.16 ELEV = 806.99'	

-CURB ID-	-CURB ID-
PI Sta 10+29.02 Δ = 27° 58' 06.7" (RT) D = 52' 05" 13.5" L = 53.70' T = 27.39' R = 110.00'	PI Sta 11+31.53 Δ = 24° 37' 26.5" (RT) D = 11' 35' 29.6" L = 21.49' T = 10.91' R = 50.00'
-CURB ID-	-CURB ID-
PI Sta 11+86.09 Δ = 24° 48' 27.5" (RT) D = 28' 38" 52.4" L = 86.59' T = 43.99' R = 200.00'	

-CURB IB-	-CURB IB-	-CURB IB-
PI Sta 10+04.07 Δ = 0° 40' 38.6" (LT) D = 8' 18" 56.8" L = 8.15' T = 4.07' R = 689.00'	PI Sta 10+50.81 Δ = 24° 05' 00.0" (LT) D = 28' 38" 52.4" L = 84.07' T = 42.66' R = 200.00'	PI Sta 11+05.50 Δ = 29° 45' 32.3" (LT) D = 11' 35' 29.6" L = 25.97' T = 13.28' R = 50.00'
-CURB IB-	-CURB IB-	-CURB IB-
PI Sta 12+09.66 Δ = 19° 40' 40.8" (LT) D = 52' 05" 13.5" L = 37.78' R = 110.00'	PI Sta 12+53.06 Δ = 2° 46' 07.6" (RT) D = 5' 36" 22.5" L = 49.39' T = 24.70' R = 1,022.00'	

-CURB IB-	-CURB IB-	-CURB IB-
PI Sta 10+04.07 Δ = 0° 40' 38.6" (LT) D = 8' 18" 56.8" L = 8.15' T = 4.07' R = 689.00'	PI Sta 10+50.81 Δ = 24° 05' 00.0" (LT) D = 28' 38" 52.4" L = 84.07' T = 42.66' R = 200.00'	PI Sta 11+05.50 Δ = 29° 45' 32.3" (LT) D = 11' 35' 29.6" L = 25.97' T = 13.28' R = 50.00'
-CURB IB-	-CURB IB-	-CURB IB-
PI Sta 12+09.66 Δ = 19° 40' 40.8" (LT) D = 52' 05" 13.5" L = 37.78' R = 110.00'	PI Sta 12+53.06 Δ = 2° 46' 07.6" (RT) D = 5' 36" 22.5" L = 49.39' T = 24.70' R = 1,022.00'	



NAD 83 / NA 2011

MONOLITHIC ISLANDS AND SIDEWALK

FOR -RBT- PROFILE SEE SHEET 9
FOR -CURB IA- PROFILE, -CURB IB- PROFILE, -CURB IC- PROFILE, -CURB ID- PROFILE SEE SHEET 2B-2

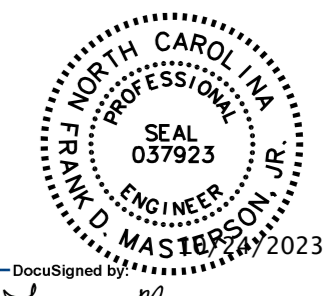
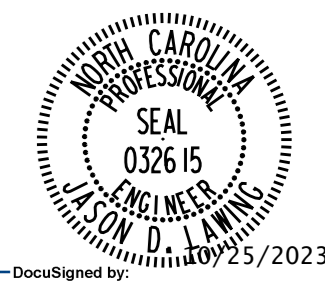
TIE EQUALITY
-L- PINC Sta.16+74.70 =
-Y1- POT Sta.15+20.12
-Y2- POT Sta.10+00.00
ELEV = 807.70'

-CURB IA-	-CURB IA-	-RBT-	-RBT-
PI Sta 10+37.26 Δ = 37° 25' 40.8" (RT) D = 52' 05" 13.5" L = 71.86' T = 37.26' R = 110.00'	PI Sta 11+37.69 Δ = 20° 58' 13.5" (RT) D = 11' 35' 29.6" L = 18.30' T = 9.25' R = 50.00'	PI Sta 10+50.00 Δ = 90° 00' 00.0" (LT) D = 90' 00" 00.0" L = 78.54' T = 50.00' R = 50.00'	PI Sta 12+85.62 Δ = 90° 00' 00.0" (LT) D = 90' 00" 00.0" L = 78.54' T = 50.00' R = 50.00'
-CURB IA-	-CURB IA-	-RBT-	-RBT-
PI Sta 12+22.98 Δ = 4° 44' 12.8" (RT) D = 28' 38" 52.4" L = 145.69' T = 76.25' R = 200.00'		PI Sta 11+28.54 Δ = 90° 00' 00.0" (LT) D = 11' 35' 29.6" L = 78.54' T = 50.00' R = 50.00'	PI Sta 12+07.08 Δ = 90° 00' 00.0" (LT) D = 11' 35' 29.6" L = 78.54' T = 50.00' R = 50.00'

5/14/99

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

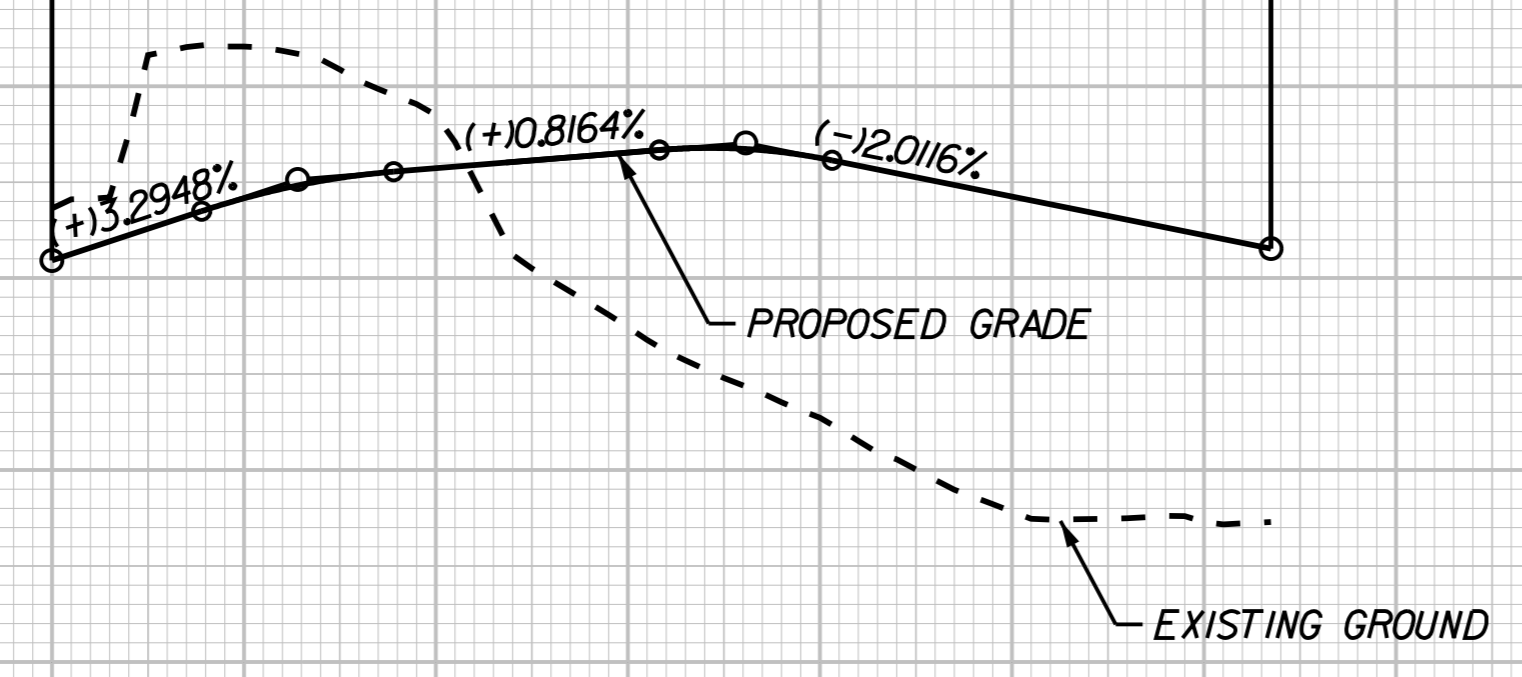
PROJECT REFERENCE NO. U-5873	SHEET NO. 2B-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
DocuSigned by: Frank M. Matheson	DocuSigned by: Jason Lawing

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

BEGIN GRADE
-Y2- Sta.11+80.53 (22' LT) =
-CURB 1A- Sta.10+00.00
ELEV = 800.46'

PI = 10+64.00 PI = 11+80.68
EL = 802.57' EL = 803.52'
VC = 50' VC = 45'
K = 20 K = 16

END GRADE
-L- Sta.19+05.39 (11' RT) =
-CURB 1A- Sta.13+17.45
ELEV = 800.77'



-CURB 1A-

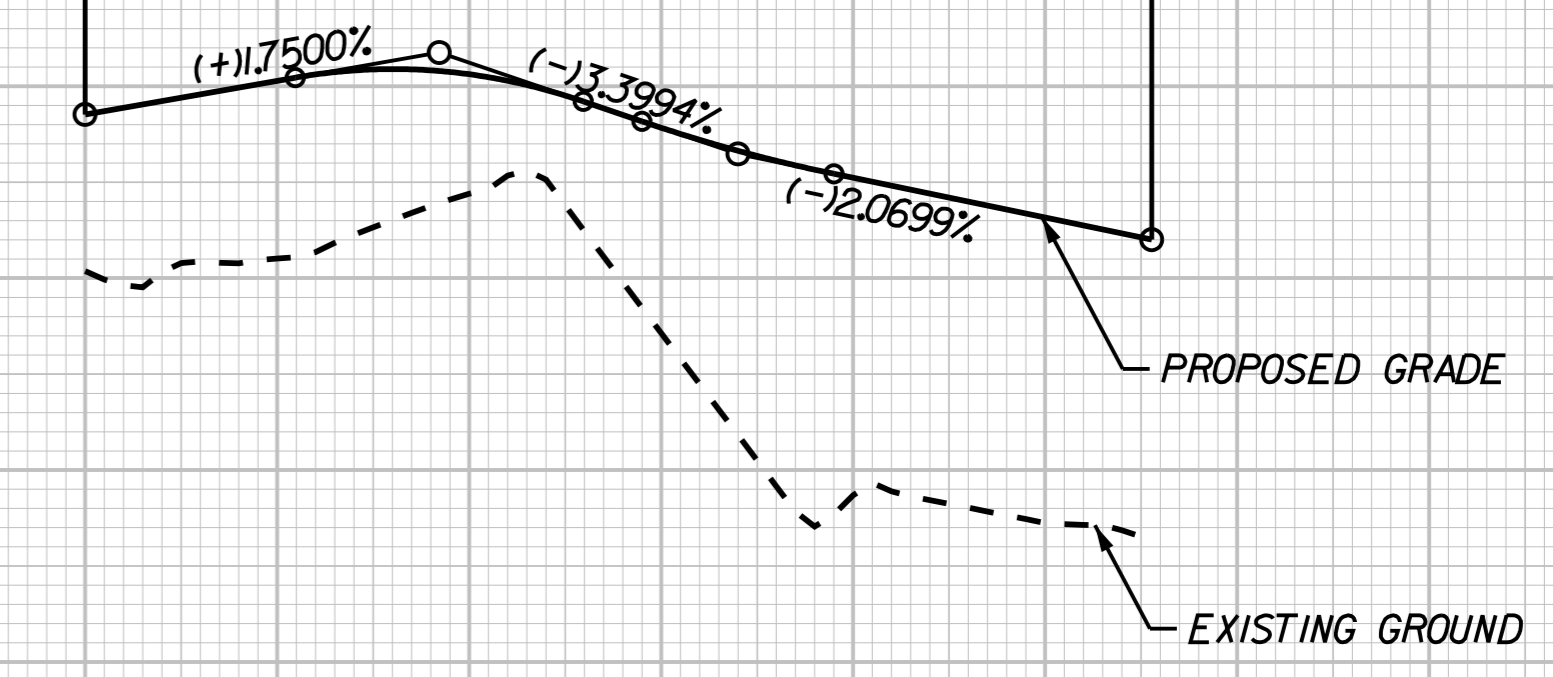
FOR -CURB 1A- PLAN, SEE SHEET 2B-1

10 11 12 13

BEGIN GRADE
-Y1- Sta.13+57.38 (11' LT) =
-CURB 1B- Sta.10+00.00
ELEV = 804.27'

PI = 10+92.23 PI = 11+70.00
EL = 805.88' EL = 803.24'
VC = 75' VC = 50'
K = 15 K = 38

END GRADE
-L- Sta.18+83.07 (22' LT) =
-CURB 1B- Sta.12+77.75
ELEV = 801.01'



-CURB 1B-

FOR -CURB 1B- PLAN, SEE SHEET 2B-1

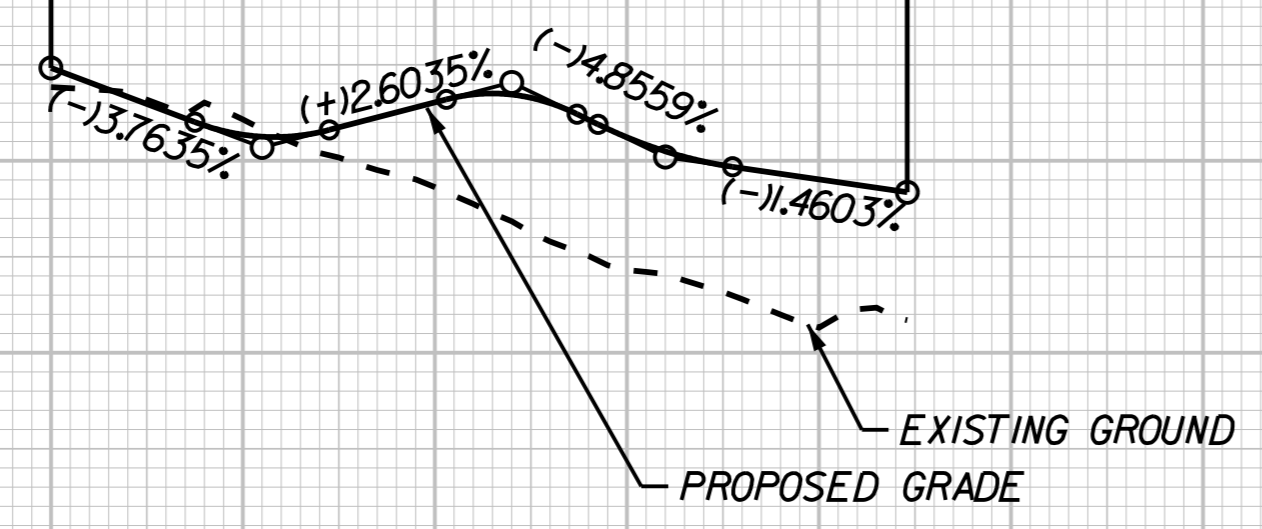
10 11 12 13

BEGIN GRADE
-L- Sta.15+04.30 (22' LT) =
-CURB 1C- Sta.10+00.00
ELEV = 807.42'

PI = 10+55.00 PI = 11+60.00
EL = 805.35' EL = 805.10'
K = 6 K = 10
VC = 35' VC = 35'

END GRADE
-Y1- Sta.13+52.31 (11' RT) =
-CURB 1C- Sta.12+23.00
ELEV = 804.18'

PI = 11+20.00
EL = 807.04'
K = 5
VC = 34'



-CURB 1C-

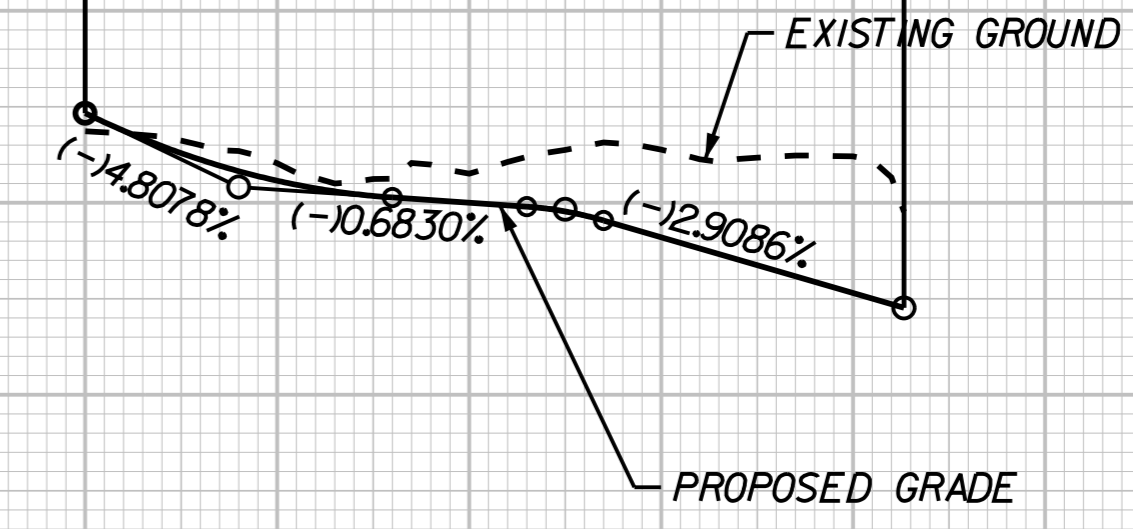
FOR -CURB 1C- PLAN, SEE SHEET 2B-1

10 11 12 13

BEGIN GRADE
-L- Sta.15+07.88 (22' RT) =
-CURB 1D- Sta.10+00.00
ELEV = 807.33'

PI = 10+40.00 PI = 11+25.00
EL = 805.41' EL = 804.83'
K = 19 K = 9
VC = 80' VC = 20'

END GRADE
-Y2- Sta.11+34.94 (11.00' RT) =
-CURB 1D- Sta.12+13.23
ELEV = 802.26'



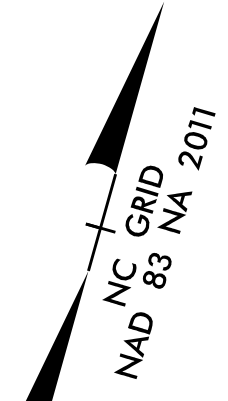
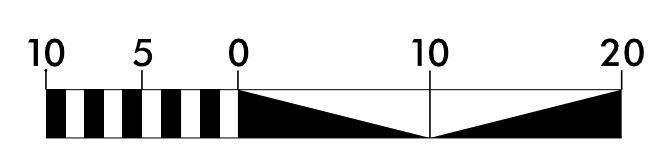
-CURB 1D-

FOR -CURB 1D- PLAN, SEE SHEET 2B-1

10 11 12 13

2/02/2017

5/14/2023

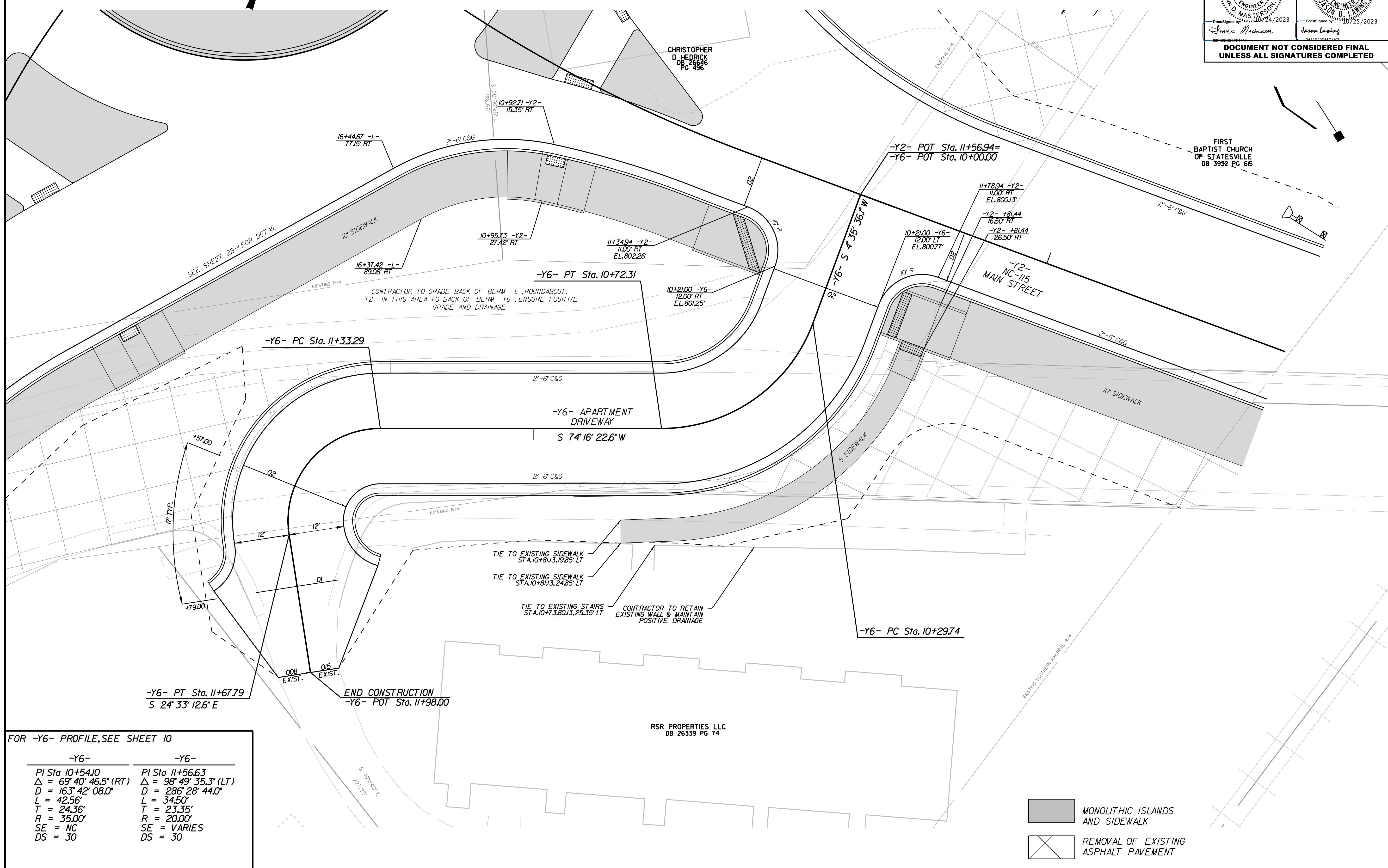


-Y6- DRIVEWAY GEOMETRY SHEET

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5873	SHEET NO. 2B-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSigned by: Frank M. Johnson 11/10/24/2023	DocuSigned by: Jason Lawing 11/10/25/2023
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FOR -Y6- PROFILE, SEE SHEET 10

-Y6-	-Y6-
PI Sta. 10+54.10	PI Sta. 11+56.63
$\Delta = 69^\circ 40' 46.5" (RT)$	$\Delta = 98^\circ 49' 35.3" (LT)$
$D = 163' 42" 08.0"$	$D = 286' 28" 44.0"$
$L = 42.56'$	$L = 34.50'$
$T = 24.36'$	$T = 23.35'$
$R = 35.00'$	$R = 20.00'$
SE = NC	SE = VARIES
DS = 30	DS = 30

- MONOLITHIC ISLANDS AND SIDEWALK
- REMOVAL OF EXISTING ASPHALT PAVEMENT

10/6/2023

5/14/2023



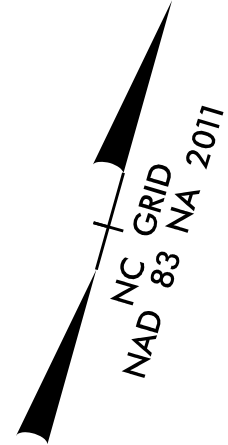
SCHOOL DETAIL SHEET

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

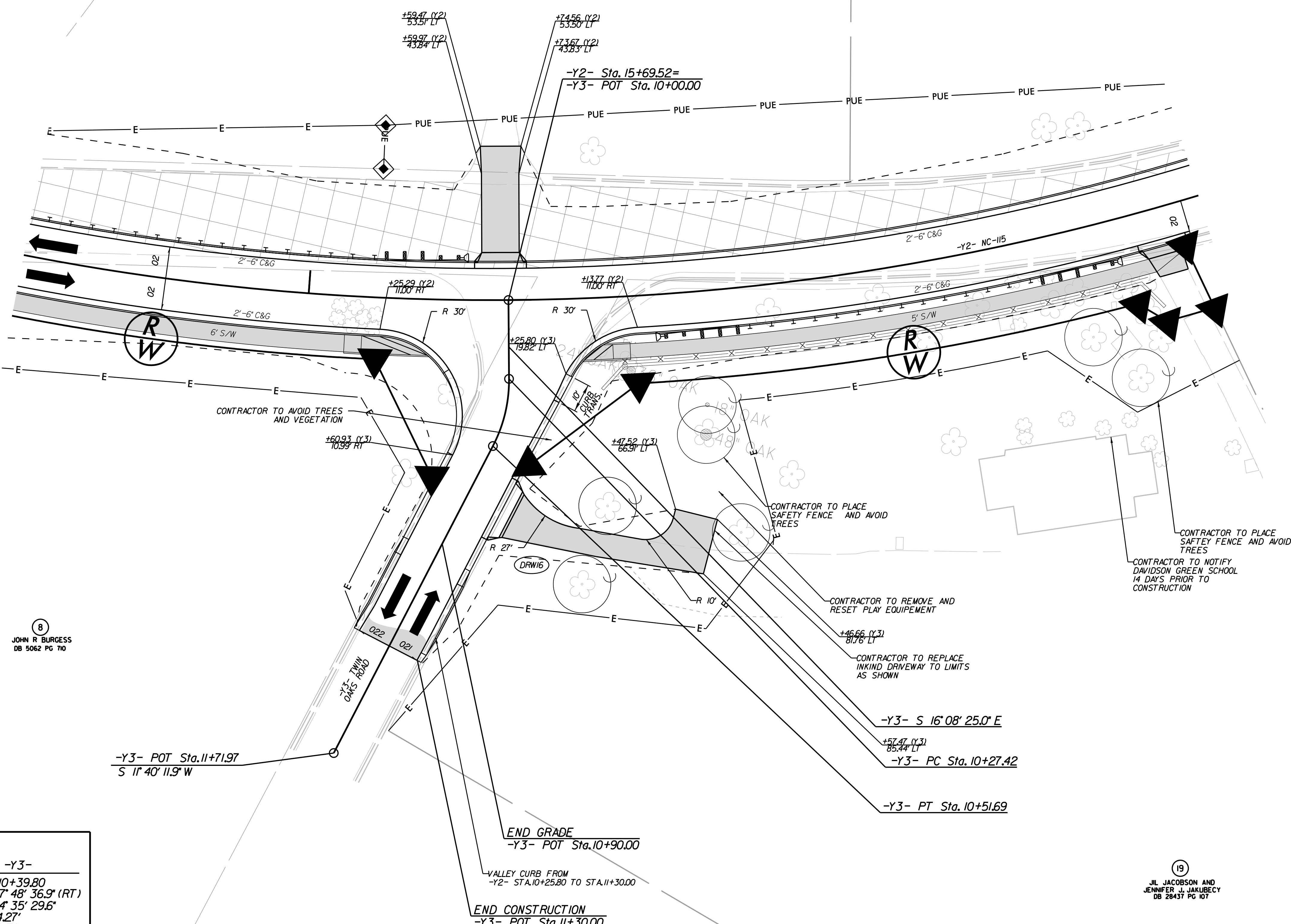
PROJECT REFERENCE NO. U-5873	SHEET NO. 2B-4
ROADWAY DESIGN ENGINEER SEAL 037923 FRANK MASHORON	HYDRAULICS ENGINEER SEAL 032615 JASON LEWING
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

30
RUBY DIANNE
HOUSTON
DB 3929 PG 428



21
TRAVIS COLLUM AND
KELLY COLLUM,
HUSBAND AND WIFE
DB 24304 PG 989

22
JULIUS JENNINGS WADE, III
AND WIFE,
CARY PAGE WADE
DB 4727 PG 129



8
JOHN R BURGESS
DB 5062 PG 710

19
JL JACOBSON AND
JENNIFER J JAKUBECY
DB 28437 PG 107

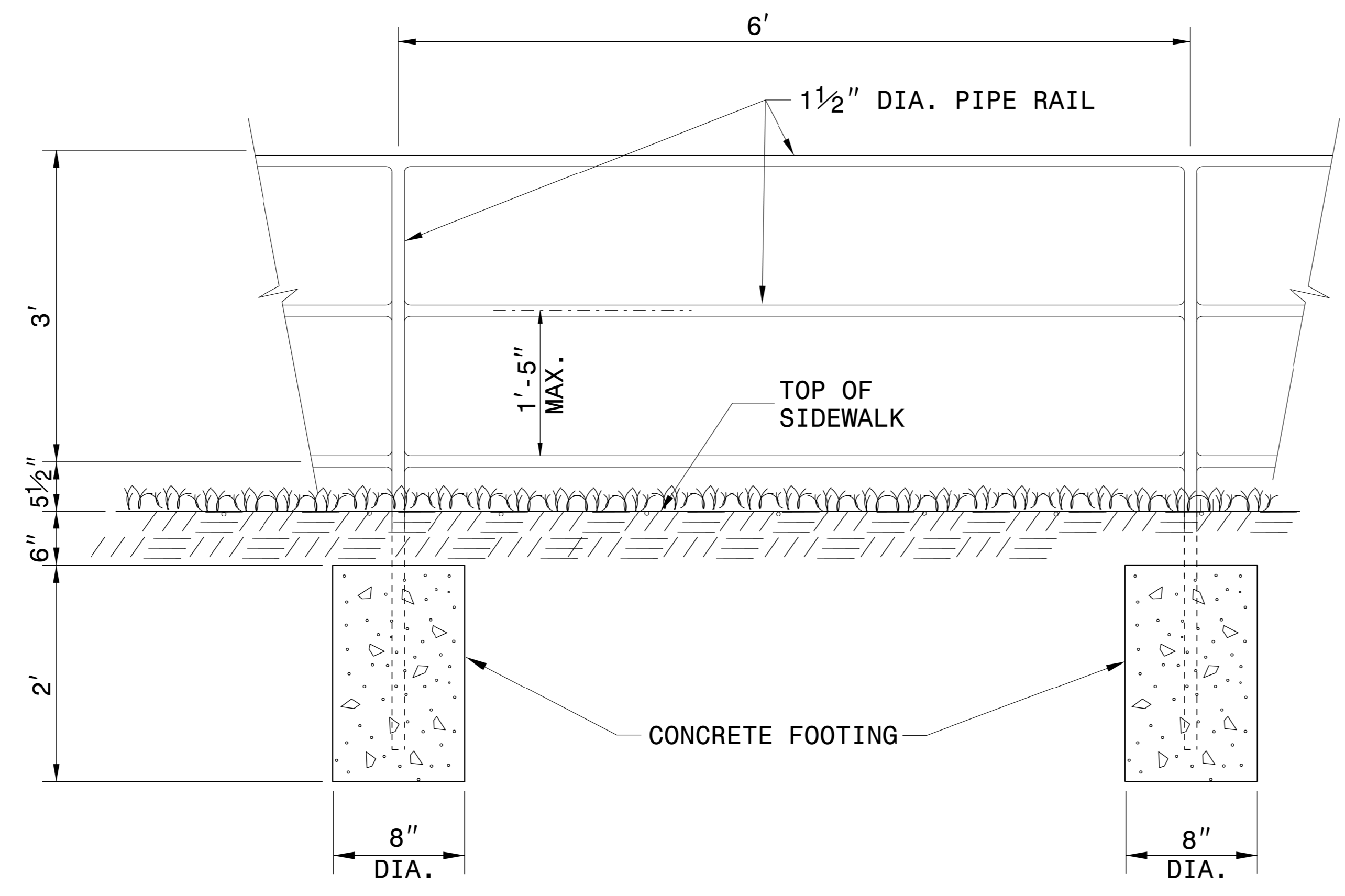
MONOLITHIC ISLANDS
AND SIDEWALK

FOR -Y2- PROFILE, SEE SHEET 8
FOR -Y3- PROFILE, SEE SHEET 9

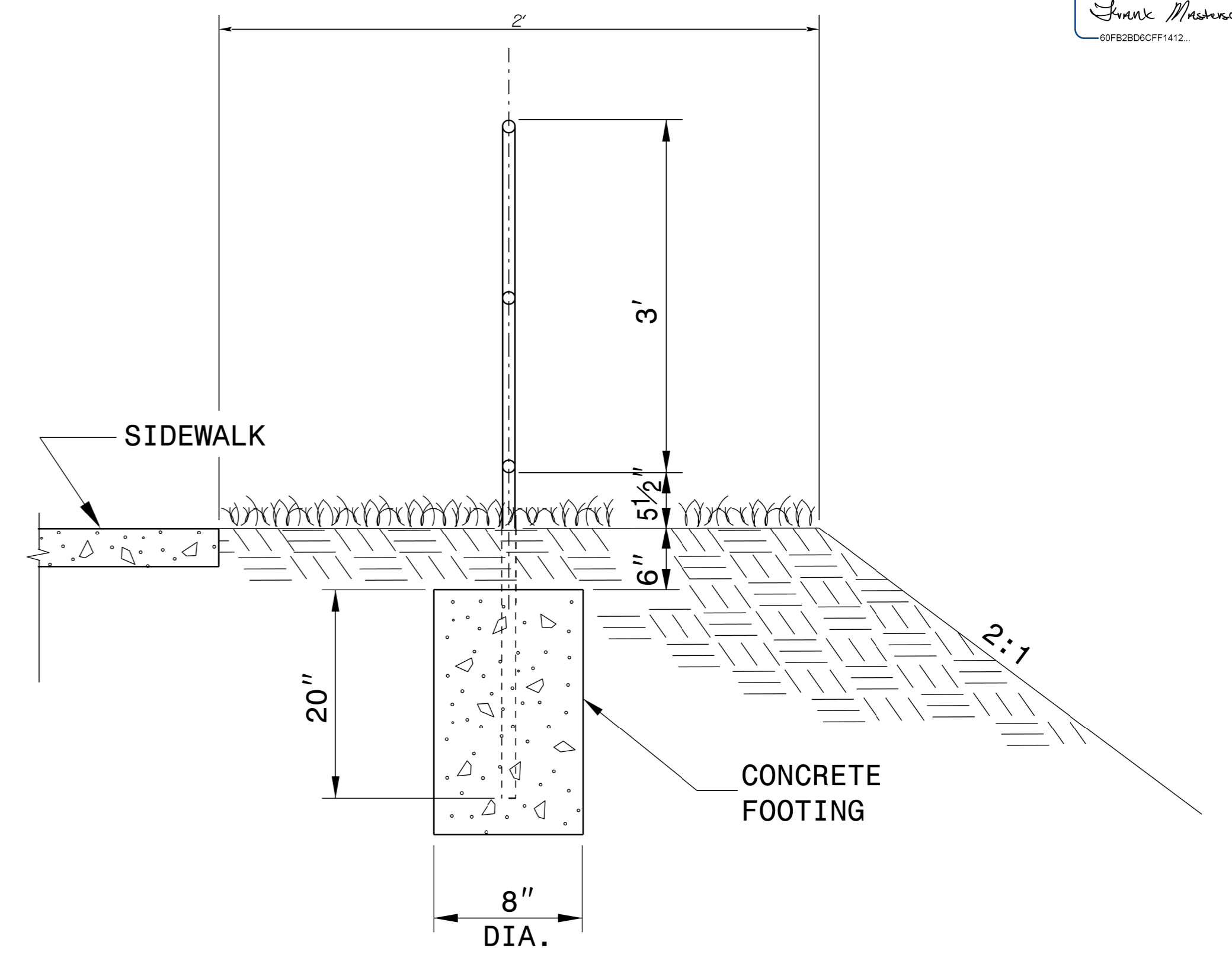
-Y2-	-Y2-	-Y3-
PI Sta. 15+93.49	PI Sta. 20+16.15	PI Sta. 10+39.80
$\Delta = 42^\circ 37' 06.0''$ (LT)	$\Delta = 22^\circ 15' 22.3''$ (LT)	$\Delta = 27^\circ 48' 36.9''$ (RT)
D = 6' 44' 26.4"	D = 9' 14' 28.5"	D = 114' 35' 29.6"
L = 632.26'	L = 240.84'	L = 24.27'
T = 331.56'	T = 121.95'	T = 12.38'
R = 850.00'	R = 620.00'	R = 50.00'
SE = NC, METHOD II	SE = EXIST.	SE = NC, METHOD II
DS = 30	DS = 30	DS = 30

10/6/2023

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



ELEVATION OF PROPOSED PEDESTRIAN HANDRAIL



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 SECTION 1076 OF THE NCDOT STANDARD SPECIFICATIONS.

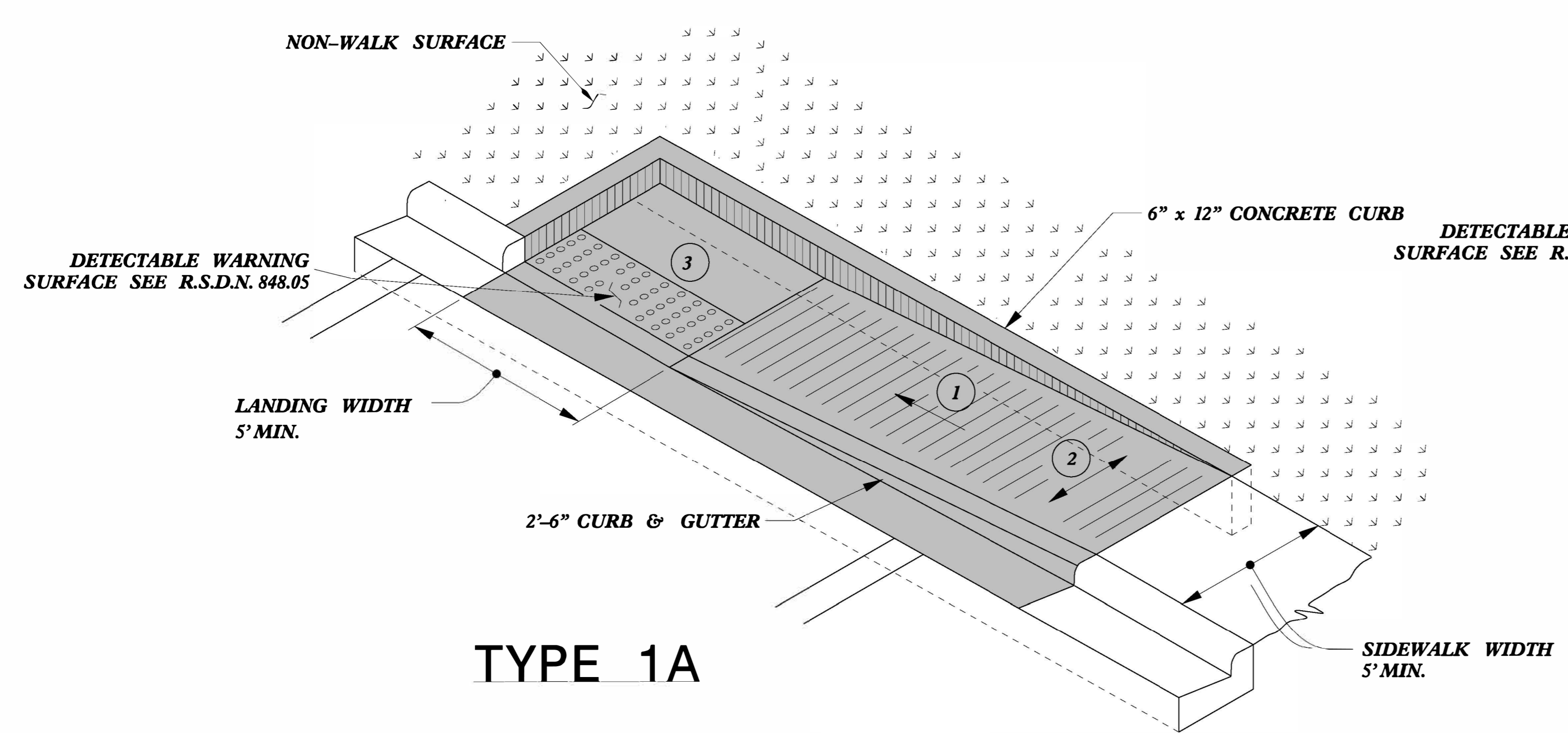
PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH SECTION 1080 OF THE STANDARD SPECIFICATIONS.

WELD IN ACCORDANCE WITH ARTICLE 1072-20 OF THE STANDARD SPECIFICATIONS.

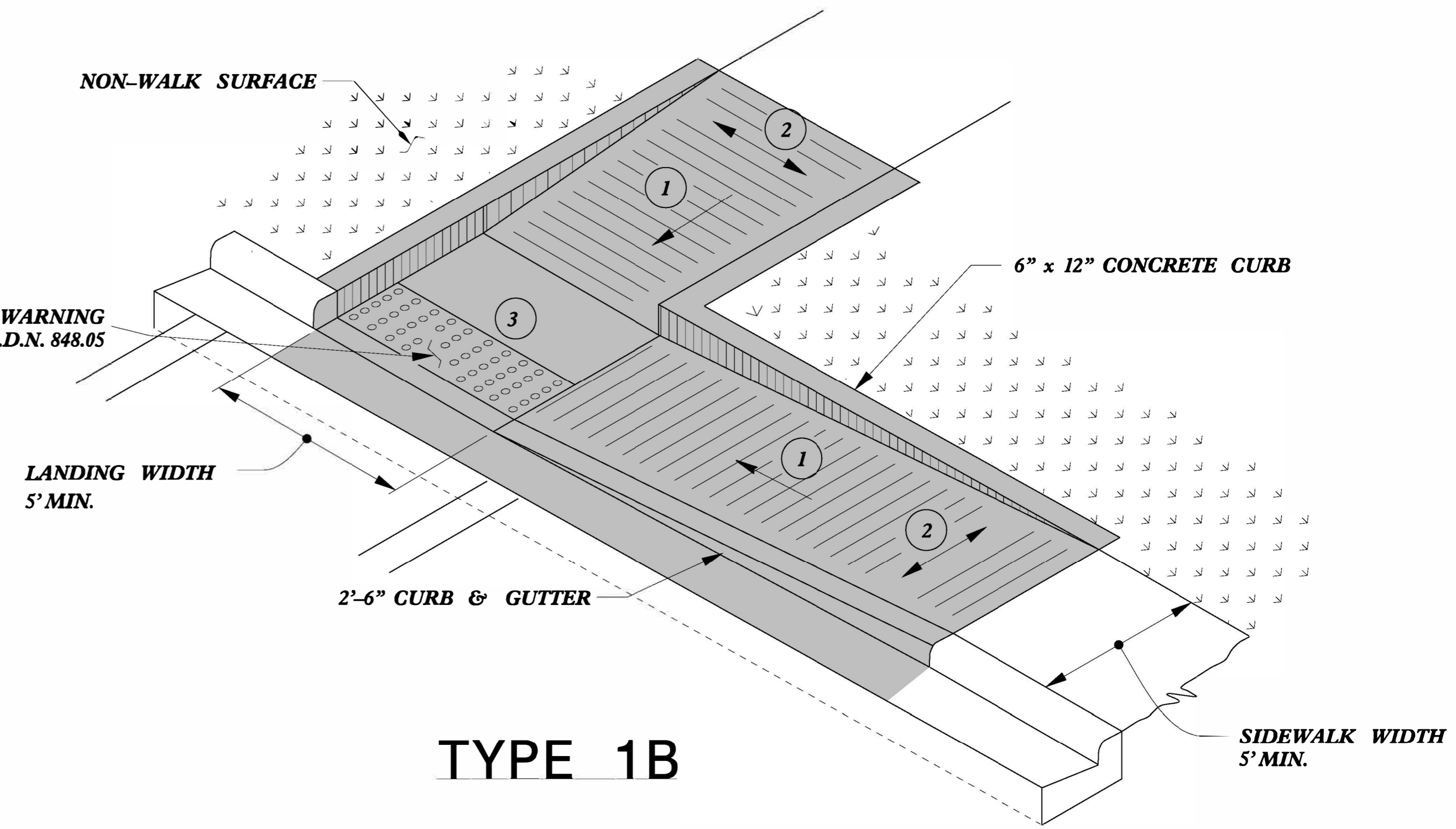
USE CLASS 'B' CONCRETE FOR HANDRAIL FOOTINGS.

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

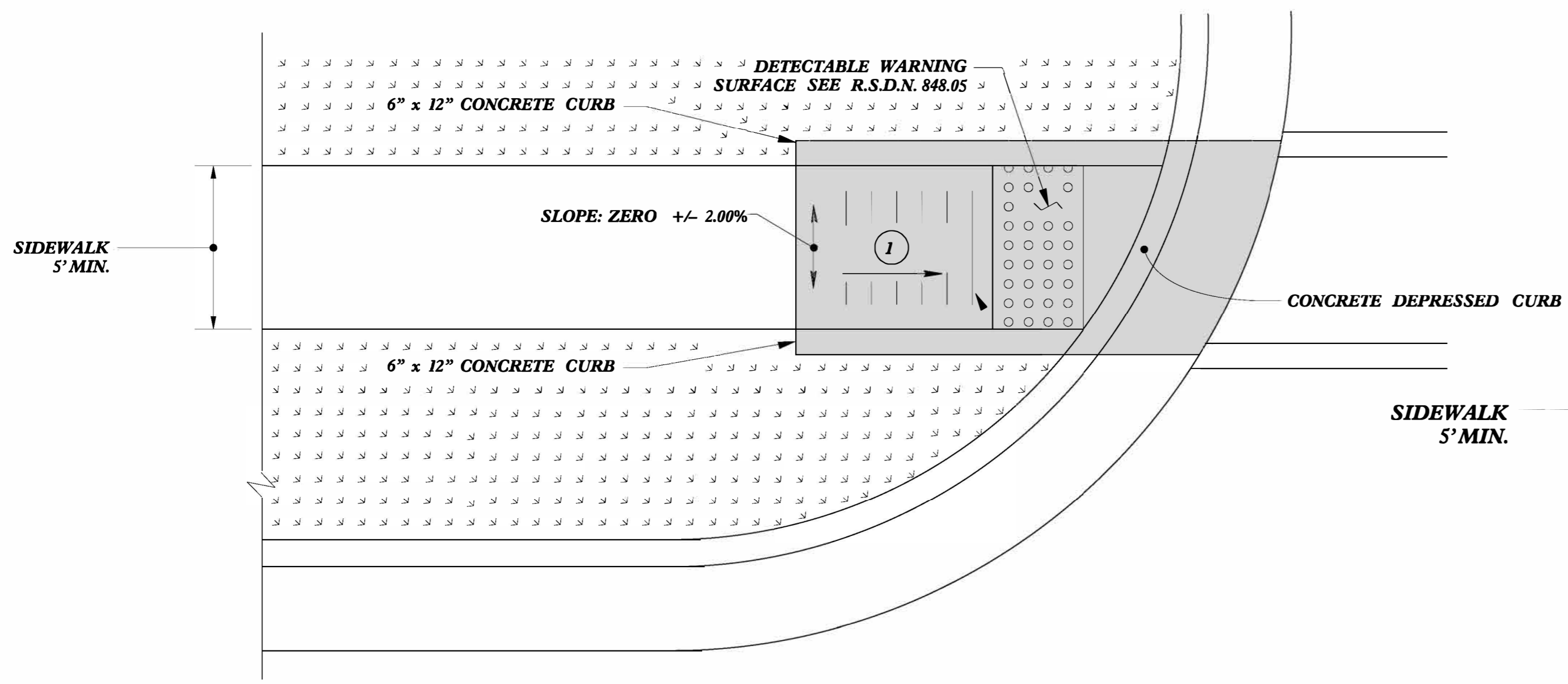
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
PROPOSED PEDESTRIAN SAFETY RAIL	
ORIGINAL BY: E.E.WARD	DATE: 12-99
MODIFIED BY: T.S.Spell	DATE: 1-4-05
CHECKED BY:	DATE:
FILE SPEC.: w:\details\stand\metric\retainwall_handrails.dgn	



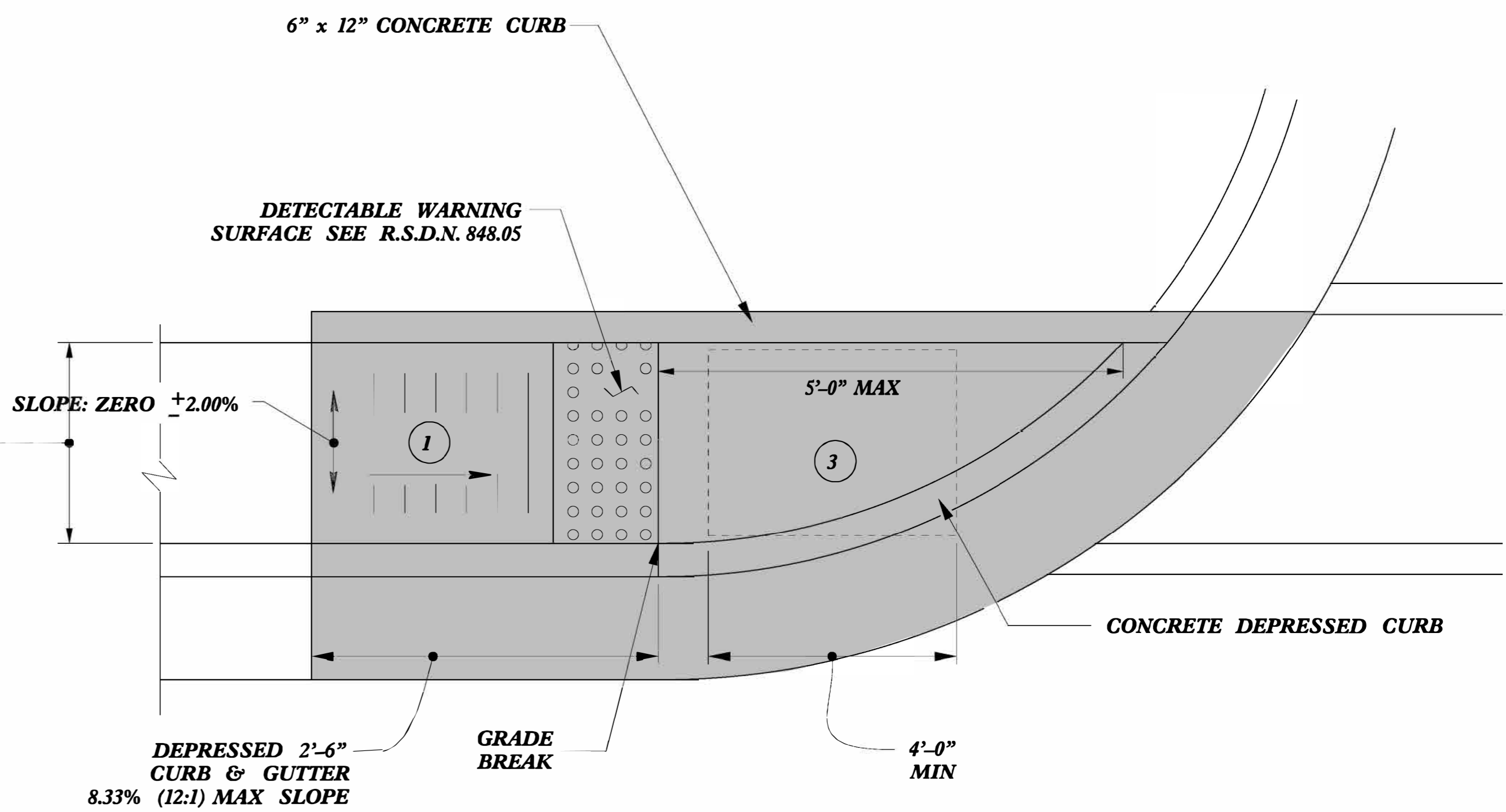
TYPE 1A



TYPE 1B



TYPE 1 Modified

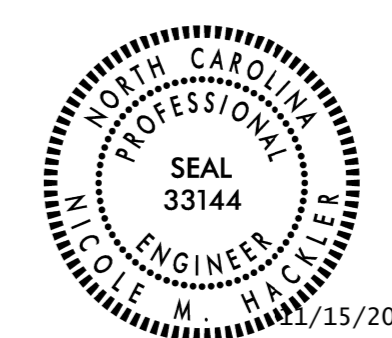


TYPE 1

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES



DocuSigned By:
Nicole M. Hecker
588423034164CS...

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

CURB RAMPS
Directional Ramps

ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. stds/2012CurbRamp/CurbRampDetails.dgn	

5/14/1999
 TIME
 USER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

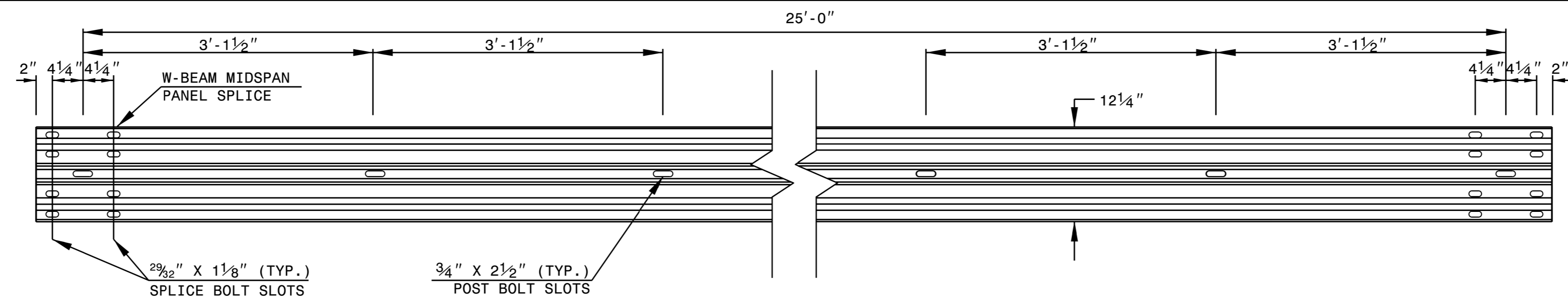
ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02

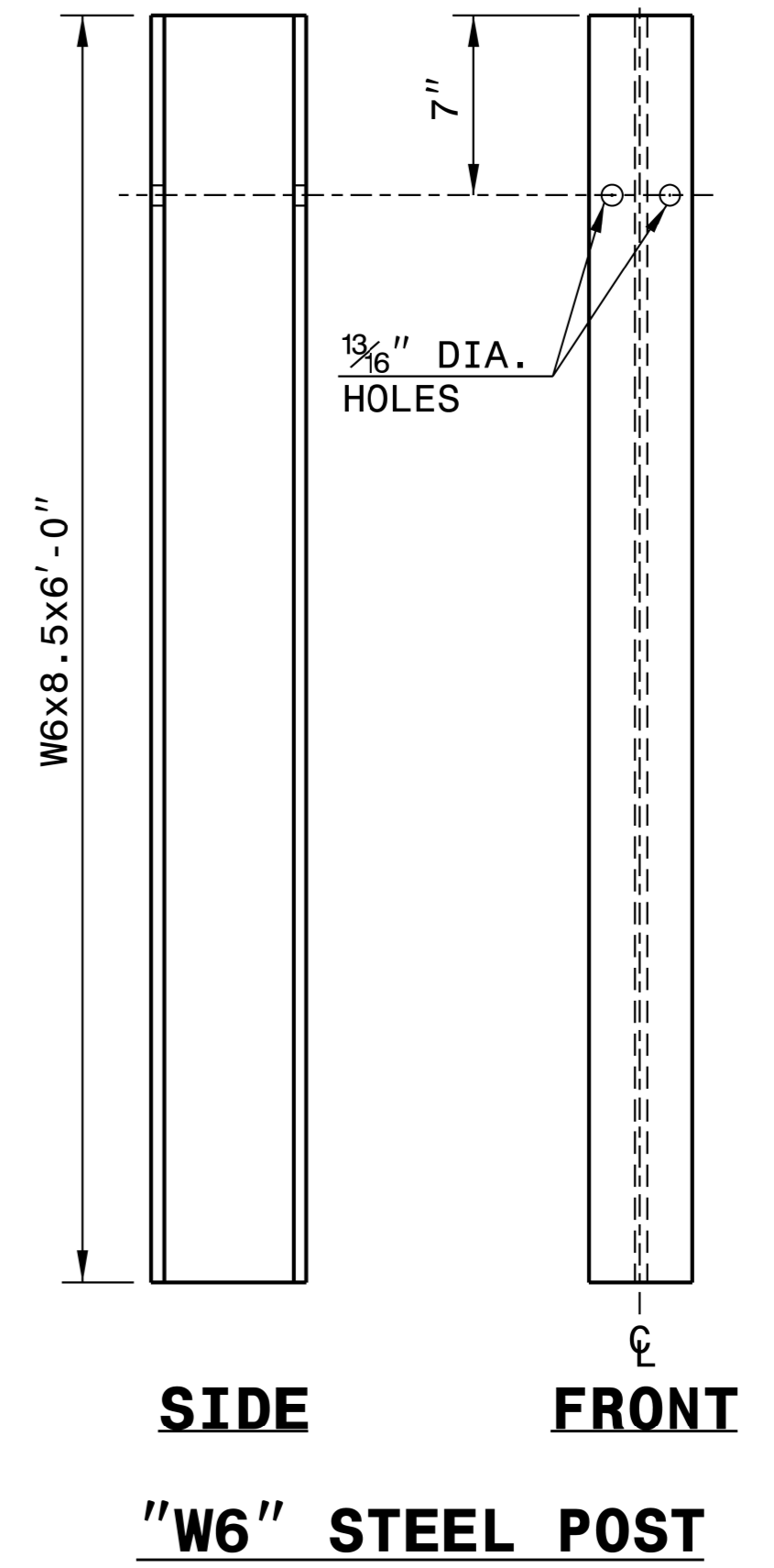
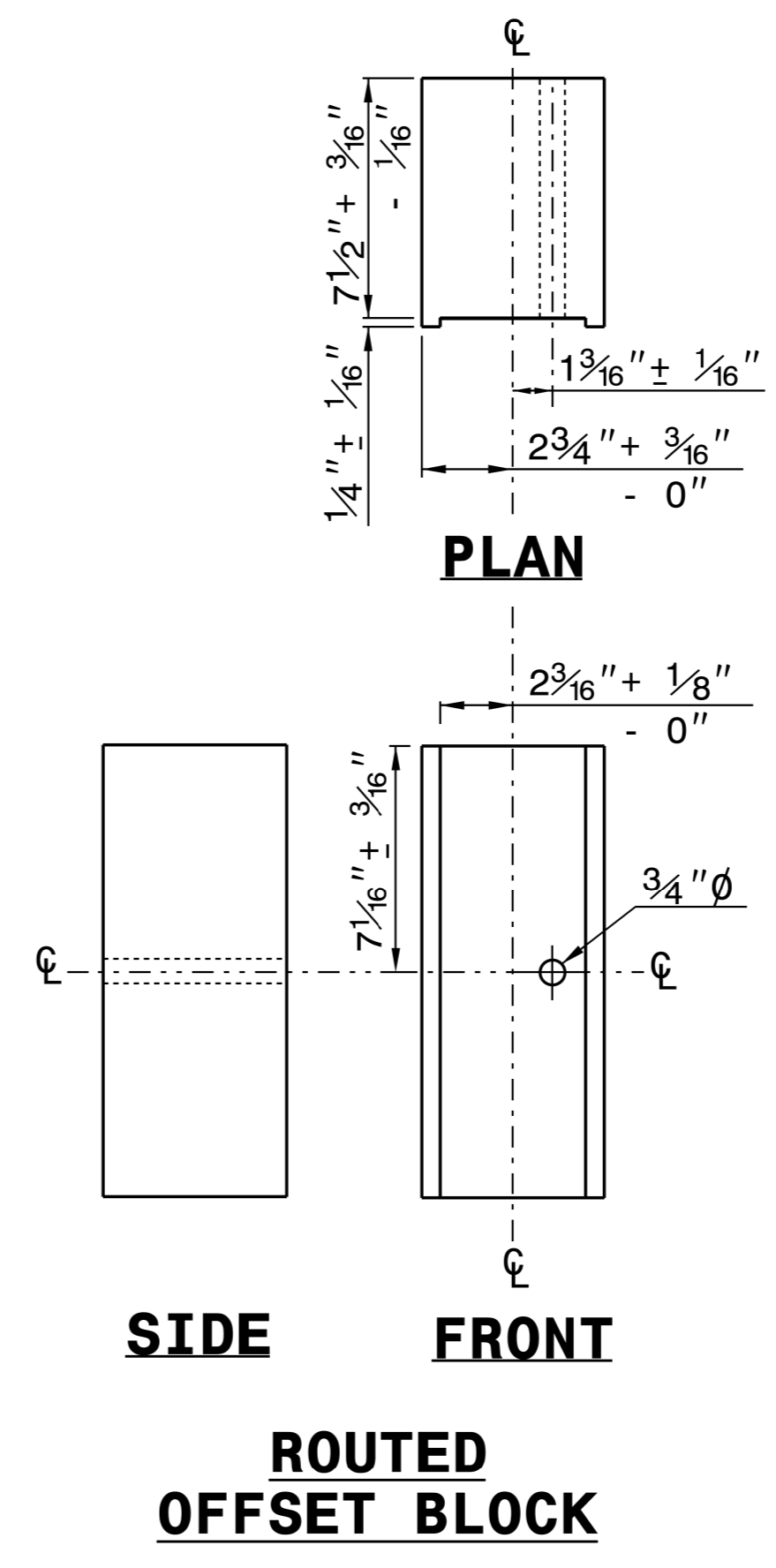
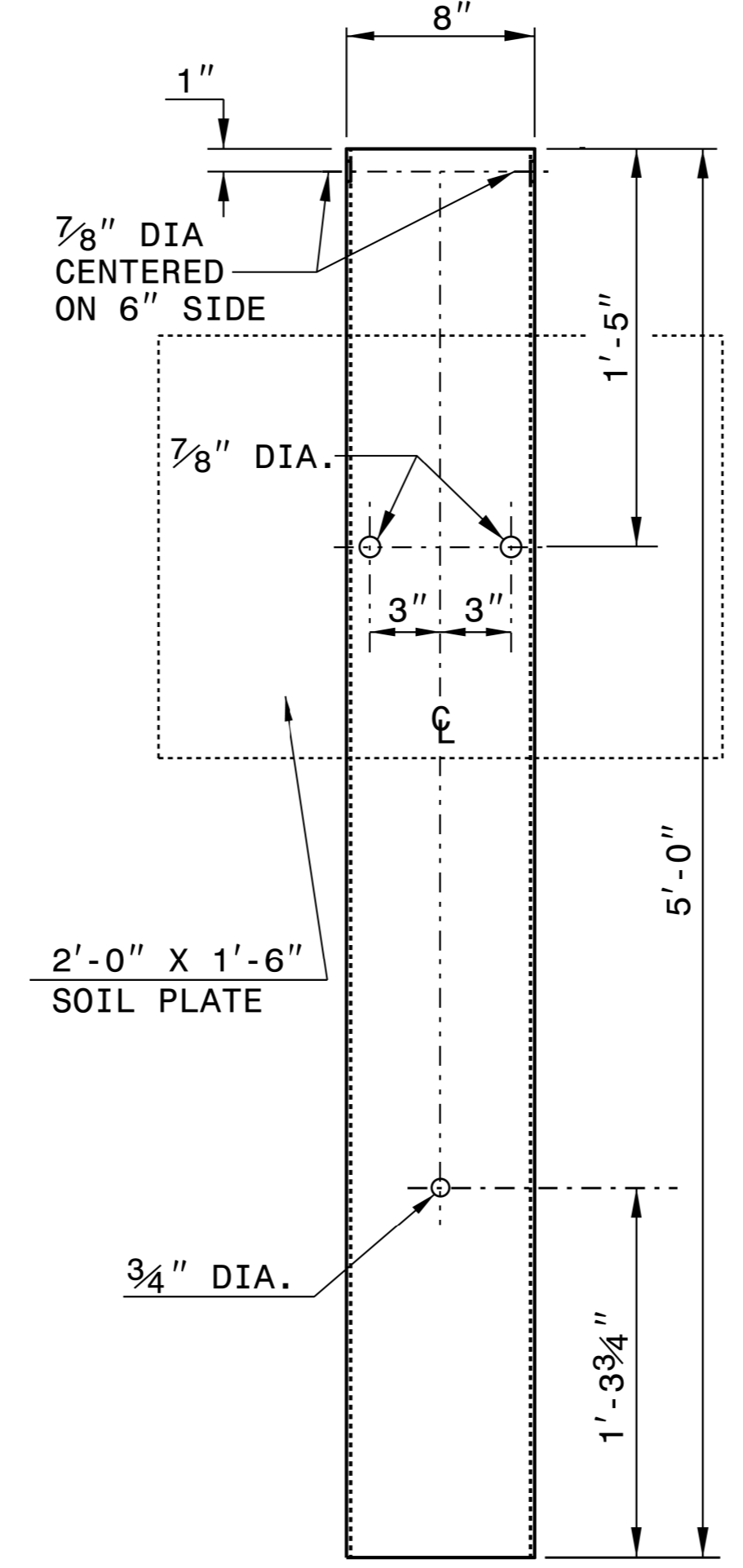
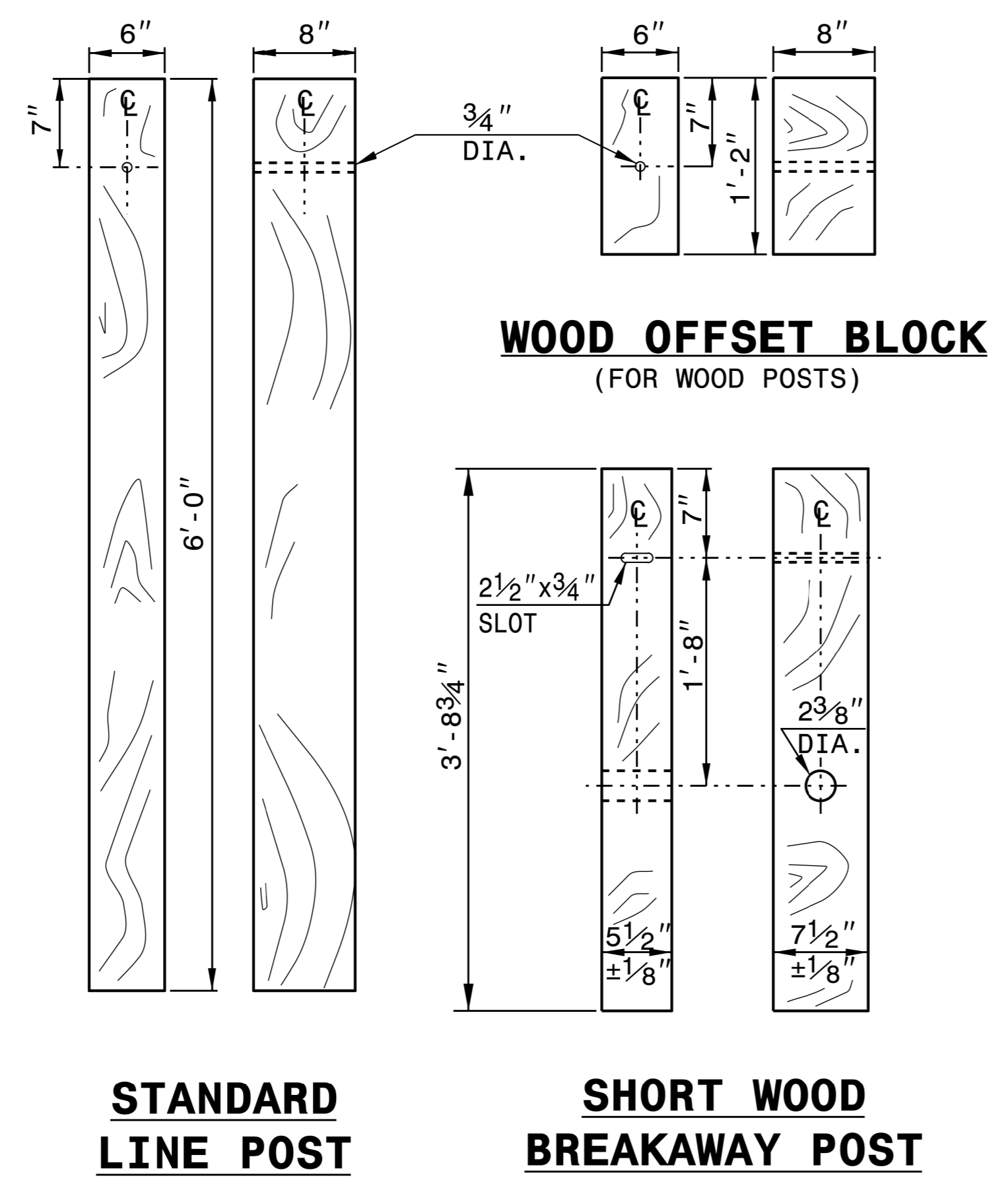
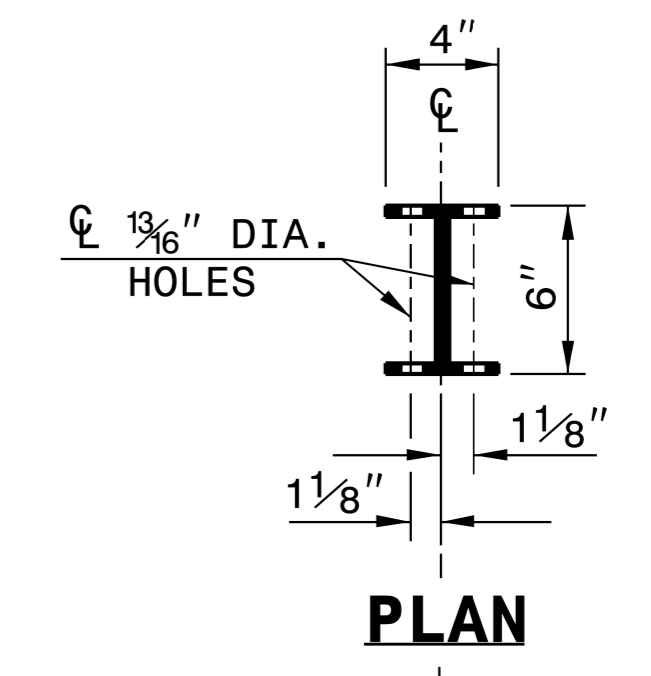
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

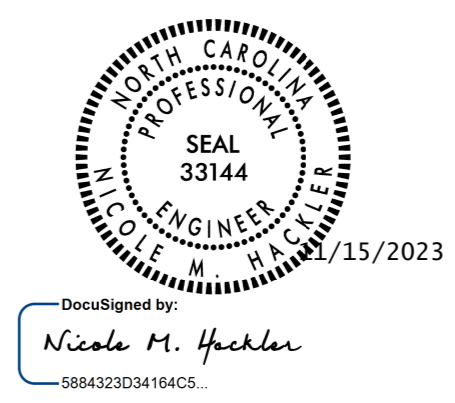
SHEET 6 OF 8
862D02



STANDARD W-BEAM GUARDRAIL



SYSTEM PARTS



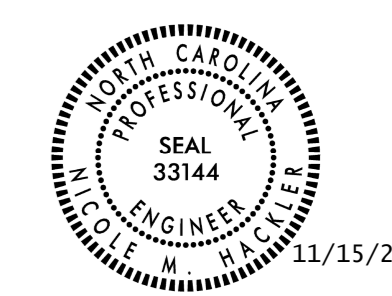
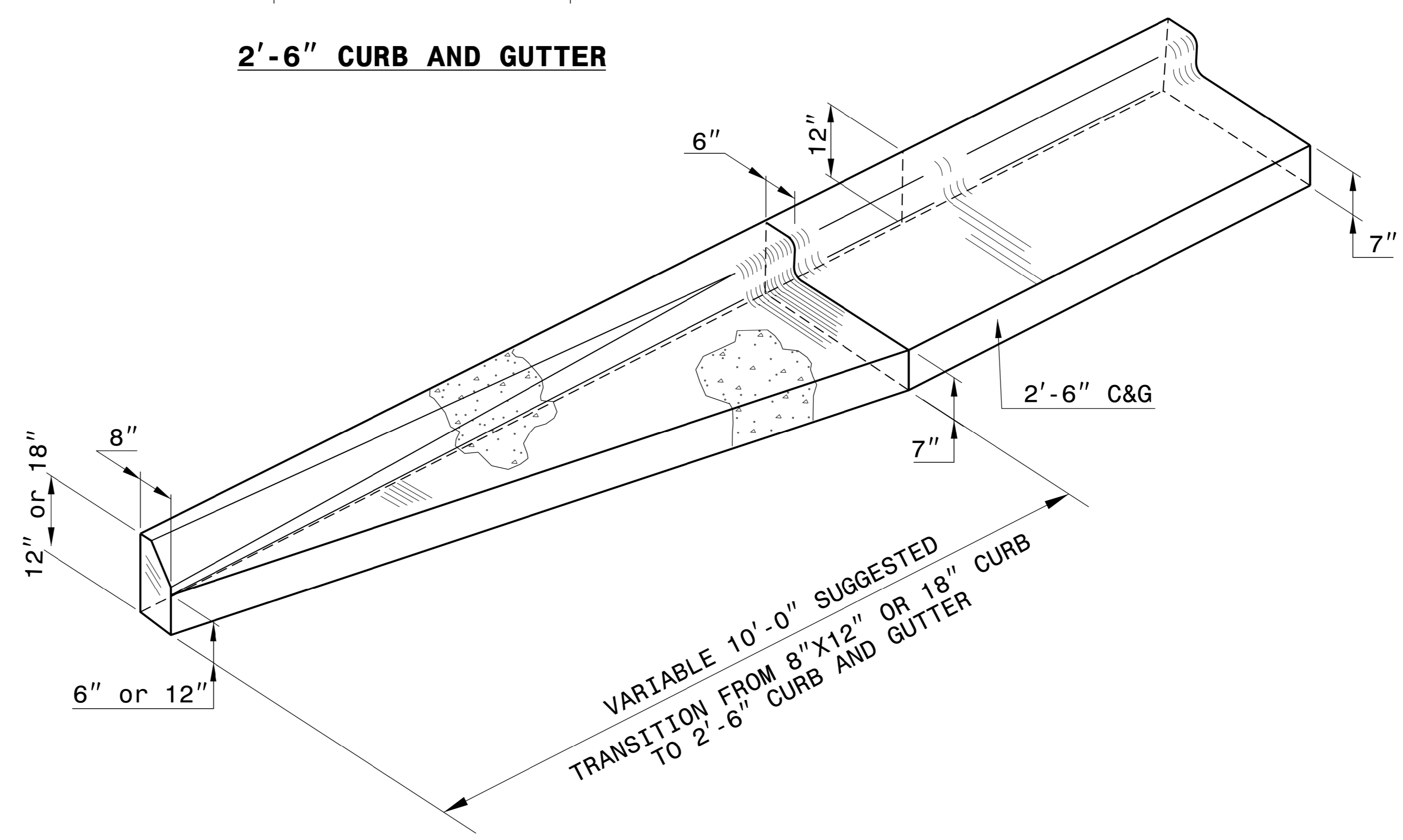
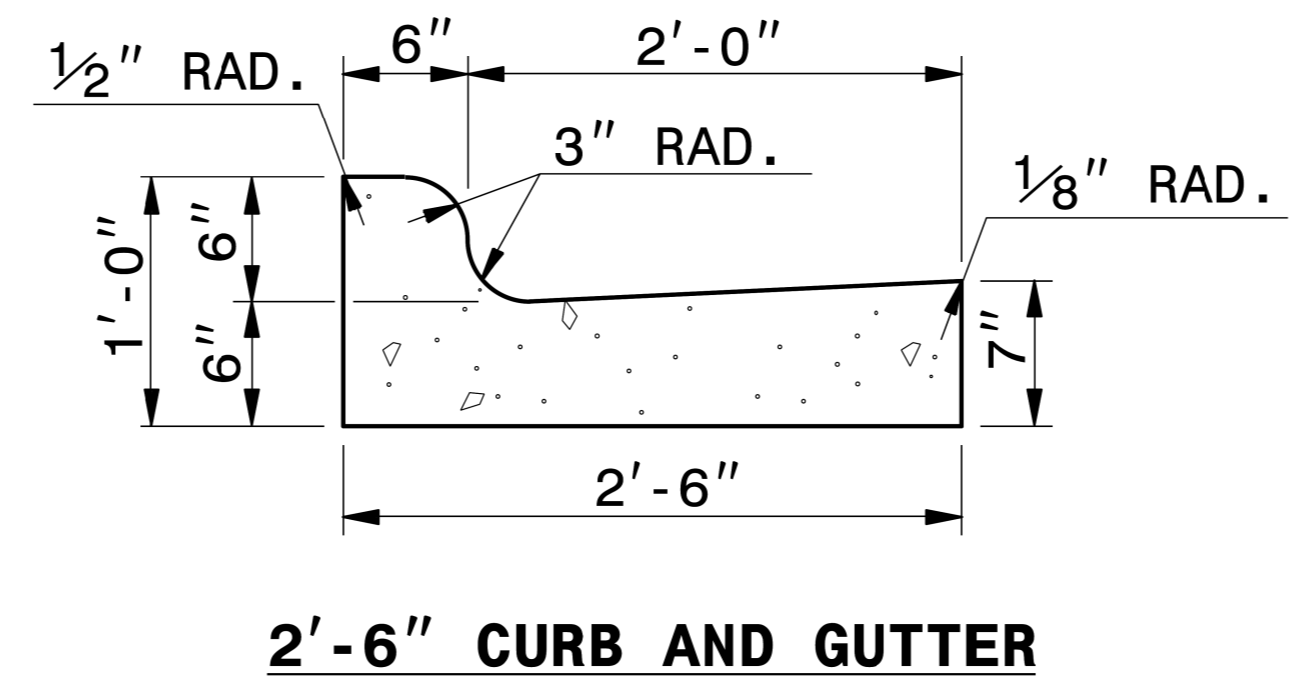
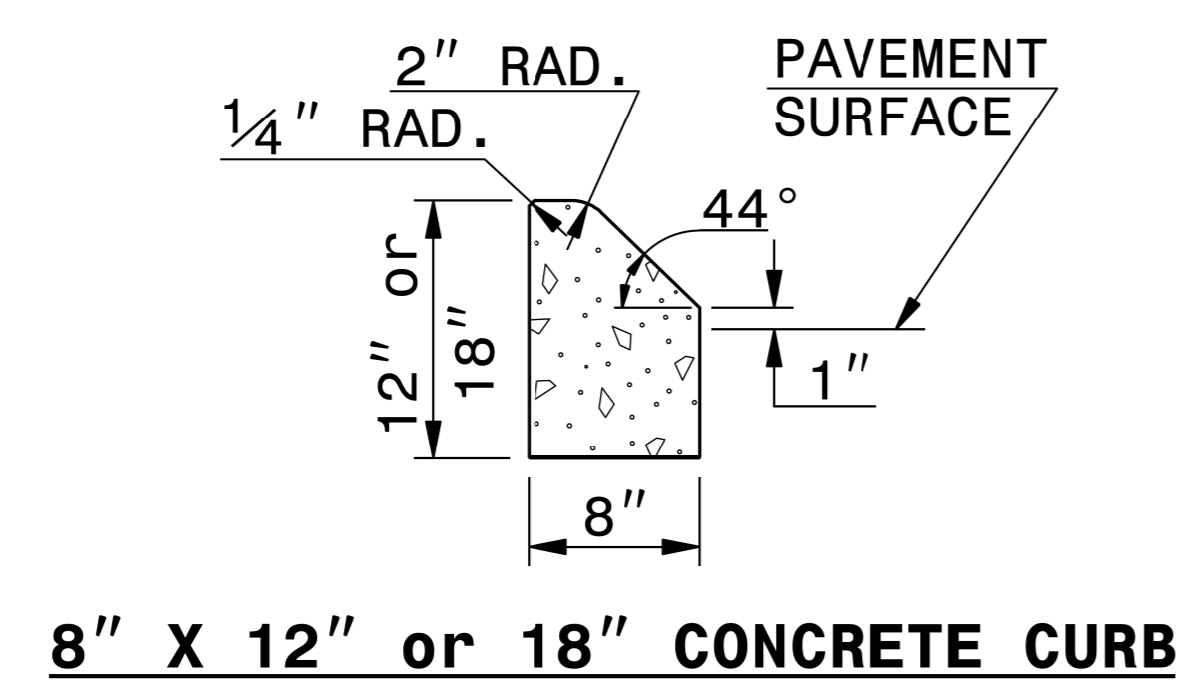
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: J. HOWERTON DATE: 3-7-2018
 MODIFIED BY: DATE: _____
 CHECKED BY: DATE: _____
 FILE SPEC.: _____

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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



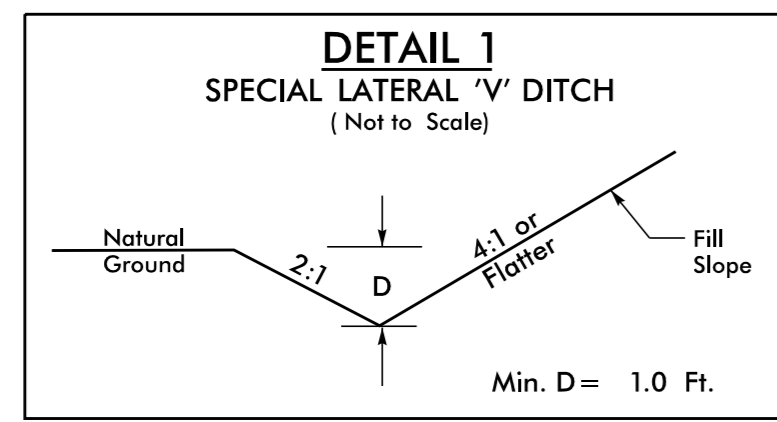
DocuSigned by:
Nicole M. Fischer
588432034164CS

11/15/2023

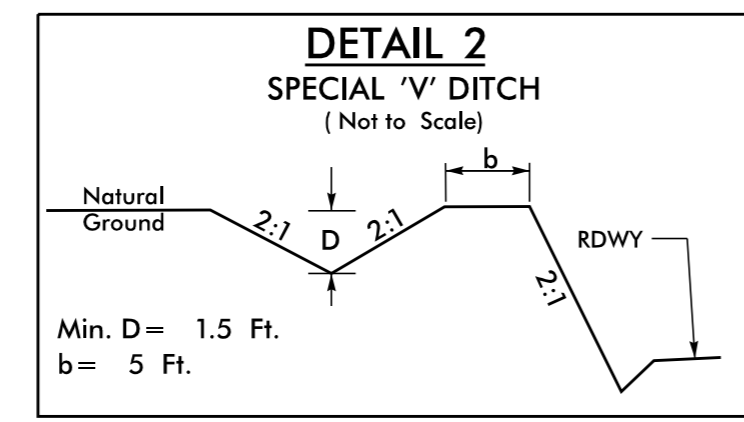
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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/cptransit.dgn	

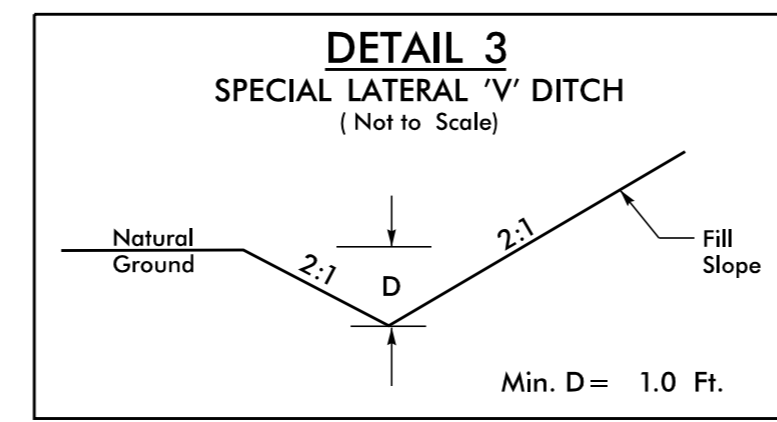
5/14/99



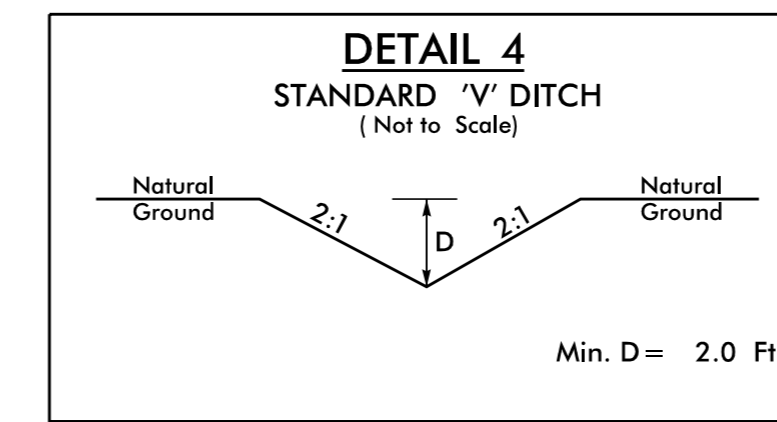
FROM STA. 14+00 TO STA. 15+50 -Y2- (LT)
FROM STA. 15+85 TO STA. 18+50 -Y2- (LT)



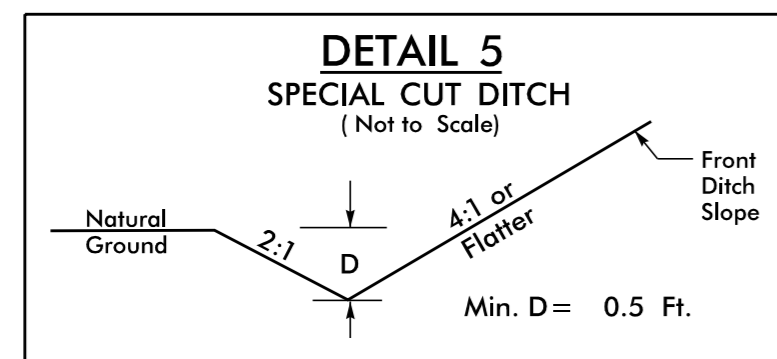
FROM STA. 11+81 TO STA. 12+87 -Y2- (LT)



FROM STA. 11+15 TO STA. 13+82 -Y1- (RT)



FROM STA. 9+88 TO 10+50 -Y1- (RT)
FROM STA. 10+50 TO 13+70 -Y5- (LT)



FROM STA. 13+21 TO STA. 14+00 -Y2- (RT)

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO. U-5873		SHEET NO. 2D-1	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DocuSigned by: <i>Frank Masterson</i>		DocuSigned by: <i>Jason Lawing</i>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

10/24/2023

5/14/99

SUMMARY OF EARTHWORK IN CUBIC YARDS

Kimley»Horn
©2023

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. <i>U-5873</i>	SHEET NO. <i>3B-1</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

LOCATION	TOTAL UNCLASSIFIED EXCAVATION	EMBANKMENT	BORROW	TOTAL WASTE
SECTION 1 (PHASE 1A)				
-Y2- 13+10.00 (RT) TO 15+66.29 (RT)	474	0		474
-Y3- 10+11.00 (LT) TO 11+30.00 (LT)	16	3		13
-Y3- 10+11.00 (RT) TO 11+30.00 (RT)	11	3		8
SUBTOTAL	501	6		494
SECTION 2 (PHASE 1B)				
-L- 11+95.33 (LT) TO 14+80.00 (LT)	46	156	110	
-CURB 1C- 10+58.18 TO 12+23.00	21	676	655	
-CURB 1D- 11+25.00 TO 12+13.23	301	9		292
-CURB 1A- 10+50.00 TO 13+17.45	313	2293	1980	
-CURB 1B- 10+00.00 TO 12+77.75	0	3451	3451	
-L- 15+04.30 (LT) TO 18+83.07 (LT)	692	4331	3639	
-L- 15+07.88 (RT) TO 19+05.39 (RT)	690	4629	3939	
-L- 18+83.07 (LT) TO 26+46.39 (LT)	1030	3961	2931	
-L- 19+05.39 (RT) TO 26+46.39 (RT)	313	1884	1571	
-Y5- 10+11.39 (LT) TO 12+10.00 (LT)	396	0		396
-Y5- 10+11.39 (RT) TO 12+10.00 (RT)	66	33		33
-DRW15- 10+22.00 TO 11+02.00	8	330	322	
SUBTOTAL	3876	21753	18598	720
SECTION 3 (PHASE 1C)				
-Y1- 10+45.80 (LT) TO 13+57.38 (LT)	4	1527	1523	
SUBTOTAL	4	1527	1523	
SECTION 4 (PHASE 1D)				
-L- 11+95.33 (RT) TO 14+96.00 (RT)	94	64		30
-L- 14+80.00 (LT) TO 15+04.30 (LT)	4	24	22	
-CURB 1A- 10+00.00 TO 10+50.00	261	0		261
-CURB 1C- 10+00.00 TO 10+58.18	47	33		14
-CURB 1D- 10+00.00 TO 11+25.00	170	31		139
-Y1- 9+88.00 (RT) TO 13+52.11 (RT)	51	437	386	
-Y2- 11+80.53 (LT) TO 15+25.00 (LT)	952	0		952
-Y2- 11+34.94 (RT) TO 13+10.00 (RT)	61	187	126	
-Y2- 15+90.00 (RT) TO 20+00.00 (RT)	117	438	321	
-Y6- 10+11.00 (LT) TO 11+98.00 (LT)	11	72	61	
-Y6- 10+11.00 (RT) TO 11+33.29 (RT)	8	21	13	
SUBTOTAL	1776	1309	928	1395
SECTION 5 (PHASE 1E)				
-L- 14+96.00 (RT) 15+07.88 (RT)	0	8	11	
-Y2- 15+25.00 (LT) TO 20+00.00 (LT)	439	87		352
-Y2- 15+66.29 (RT) TO 15+90.00 (RT)	19	3		16
-Y6- 11+33.29 (RT) 11+98.00 (RT)	8	1		7
SUBTOTAL	466	100		374
TOTAL	6623	24696	21057	2984
EARTH WASTE TO REPLACE BORROW			-2984	-2984
PROJECT TOTAL	6623	24696	18073	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT			904	
GRAND TOTAL	6623	24696	18977	0
SAY	6700		19000	
ESTIMATED DDE = 140 CY				

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

11/13/2023

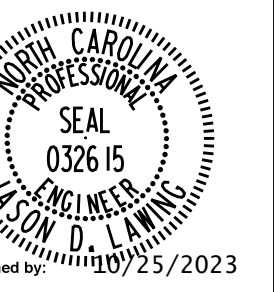
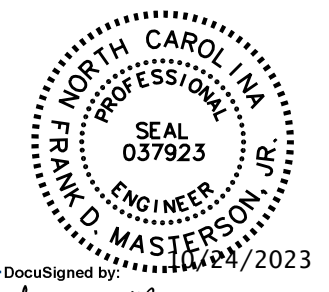
5/14/23



NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. SHEET NO.
U-5873 3B-2

RW SHEET NO.
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER



DocuSigned by: Frank Masterson 05/14/2023

DocuSigned by: Jason Lawing 05/14/2023

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

"N" = DISTANCE FROM FACE OF CURB TO FACE OF GUARDRAIL.
TOTAL BERM WIDTH = DISTANCE FROM FACE OF CURB TO HINGE POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM FOC	TOTAL BERM WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMARKS				
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	XI MOD	XI	GREU, TL-2	B-77	TYPE III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG								
																									ANCHORS							
-Y2-	12+48.00	13+04.25	LT	56.25				12+98.00	0	4.5		25		0.5							1	1										
-Y2-	13+42.00	15+48.25	LT	206.25			13+56.00		0	4.5	25			0.5							1	1										
-Y2-	16+20.73	17+82.98	RT	162.25			15+95.00		0	16		25		0.5								2										
-Y5-	15+87.00	15+87.00	LT/RT	37.50																												
SUBTOTAL				462.25																												
LESS ANCHOR DEDUCTIONS																																
	GREU TL-2	4 @ 25'	=	100.00																												
	B-77	2 @ 18.75'	=	37.50																												
TOTAL				324.75																												
SAY				350																		4	2									

ADDITIONAL GUARDRAIL POSTS = 5

PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/C/L	YD ²
-L-	STA 13+22.00	STA 14+76.00	LT	84
-L-	STA 14+63.00	STA 15+81.00	RT	338
-L-	STA 24+53.00	STA 26+18.00	RT	285
-Y1-	STA 11+04.00	STA 15+00.00	RT	679
-Y2-	STA 11+65.00	STA 11+88.00	LT	97
-Y2-	STA 11+89.00	STA 13+38.00	RT	312
-Y2-	STA 13+10.00	STA 20+00.00	LT	1132
-Y5-	STA 10+42.00	STA 11+76.00	LT	214
-Y6-	STA 10+11.00	STA 10+90.00	LT	116
TEMPORARY PAVEMENT FROM WZTC:				83
TOTAL:				3339
SAY:				3350

PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED SUMMARY

LINE	STATION TO	STATION	LOCATION	LENGTH (LF)
-Y2-	STA 13+04.35 TO	13+42.03	LT	38
TOTAL				38
SAY				40

10/11/2023

LL23240

COMPUTED BY: F.MASTERSON DATE: 05/15/2023
CHECKED BY: AJW DATE: 10/05/23

PROJECT NO. U-5873 SHEET NO. 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 for LINE & STATION, OFFSET, STRUCTURE NUMBER, ELEVATIONS, SLOPE, PIPE TYPES (Drainage Pipe, C.S. PIPE, R.C. PIPE CLASS III, IV, V), ENDWALLS, DRAINAGE STRUCTURE, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS.

SHEET TOTALS

LL23240

COMPUTED BY: F.MASTERSON DATE: 05/15/2023
CHECKED BY: AJW DATE: 10/05/23

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. SHEET NO.
U-5873 3D-2

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 Elevation, Invert Elevation, Minimum Required Slope, Drainage Pipe, C.S. Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, R.C. Pipe Class V, Endwalls, Drainage Structure, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, Pipe Removal, and Abbreviations. Includes summary rows for SHEET TOTALS and PROJECT TOTALS.

- ABBREVIATIONS
C.A.A. CORRUGATED ALUMINIUM ALLOY
C.B. CATCH BASIN
C.S. CORRUGATED STEEL
D.I. DROP INLET
G.D.I. GRATED DROP INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE
J.B. JUNCTION BOX
M.H. MANHOLE
N.S. NARROW SLOT
P.V.C. POLYVINYL CHLORIDE
R.C. REINFORCED CONCRETE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX
W.S. WIDE SLOT

SHEET TOTALS

PROJECT TOTALS

COMPUTED BY: SCC DATE: 9/18/23
 CHECKED BY: KBM DATE: 9/18/23

(2-3-23)

PROJECT NO. U5873/U-5907	SHEET NO. 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	200
				TOTAL LF:	200

*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
	CONTINGENCY		ASU 1	12	250	550	750		
			TOTAL CY/TONS/SY:		250	550**	750**	0	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.

REVISIONS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO.	SHEET NO.
U-5873	3P-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PARCEL INDEX SHEET

PARCEL NO.	SHEET NO.	PROPERTY OWNERS NAMES
1	4	Ladianne H Mandel and Sheril Osborne
2	4	Sibley Family, LLC
3	4	Jerry T Hancock
4	4	Steve D Friedman
5	4	RSR Properties, LLC
6	4	Nickolaos P Drossopoulos and Wife, Stella M Rhodes
7	4	James Andrew Crane
8	4, 5	John R Burgess
9	4	Clark D Readling and Wife, Carolyn Sue Readling
10	4	Caitlin Worthington
11	4	Tiffany E Barnette
12	4	Christopher D Hedrick
13	4	Thomas Donaldson
14	4	Davidson Acquisition Company, LLC
15	4	Donald S Morris, Jr
16	4, 6	Davidson Acquisition Company, LLC
17	4	Johnson C Smith University, INC
18	4	Robert Lee Archie
19	5	Jil Jacobson and Jennifer J Jakubecy
20	5	Walter Herbert Jackson, Jr and Wife, Laura Grosch Jackson
21	5	Travis Collum and Kelly Collum, Husband and Wife
22	5, 6	Julius Jennings Wade, III and Wife, Cary Page Wade
23	5, 6	Rebecca M McIntosh
24	6	Davidson Acquisition Company, LLC
25	6	Jeanne N O'Neill
26	6	Jeanne M Neumann
27	4	Jeanne-Marie C Ryan and Husband, Tony Cogavin
28	4	James Muriel Robinette
29	4	YMCA of Charlotte and Mecklenburg
30	4, 6	Ruby Dianne Houston
31	4	First Baptist Church of Statesville
32	4	Self Care Properties, LLC

FOR -L- PROFILE, SEE SHEET 7

-L- MAIN STREET	-L- MAIN STREET	-L- MAIN STREET
PI Sta. 12+93.74 Δ = 22° 03' 35.7" (RT) D = 11' 14' 04.1" L = 187.46' T = 94.80' R = 510.00' SE = NC DS = 35 RO = 44	PI Sta. 14+87.65 Δ = 22° 27' 26.8" (LT) D = 11' 14' 04.1" L = 187.46' T = 101.25' R = 510.00' SE = NC DS = 35 RO = 54	PI Sta. 16+31.47 Δ = 28° 56' 36.7" (RT) D = 32' 44' 25.6" L = 88.40' T = 45.17' R = 175.00' SE = NC DS = 25 RO = N/A
-L- POTTS STREET	-L- POTTS STREET	-L- POTTS STREET
PI Sta. 18+35.18 Δ = 18° 14' 00.2" (RT) D = 5' 43' 46.5" L = 318.23' T = 160.47' R = 1,000.00' SE = NC DS = 30 RO = N/A	PI Sta. 21+51.67 Δ = 50° 58' 14.5" (RT) D = 17' 12' 21.4" L = 296.24' T = 158.73' R = 333.00' SE = NC DS = 30 RO = N/A	PI Sta. 24+16.62 Δ = 17° 12' 21.4" L = 296.24' T = 158.73' R = 333.00' SE = NC DS = 30 RO = N/A

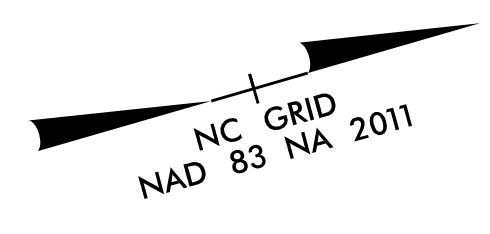
YOUNG MENS CHRISTIAN ASSOCIATION OF CHARLOTTE AND MECKLENBURG
DB 4313 PG 155

STANDARD 'V' DITCH
S = 1.9%
EST 20 CY DDE
SEE DETAIL 4
SHEET 2D-1

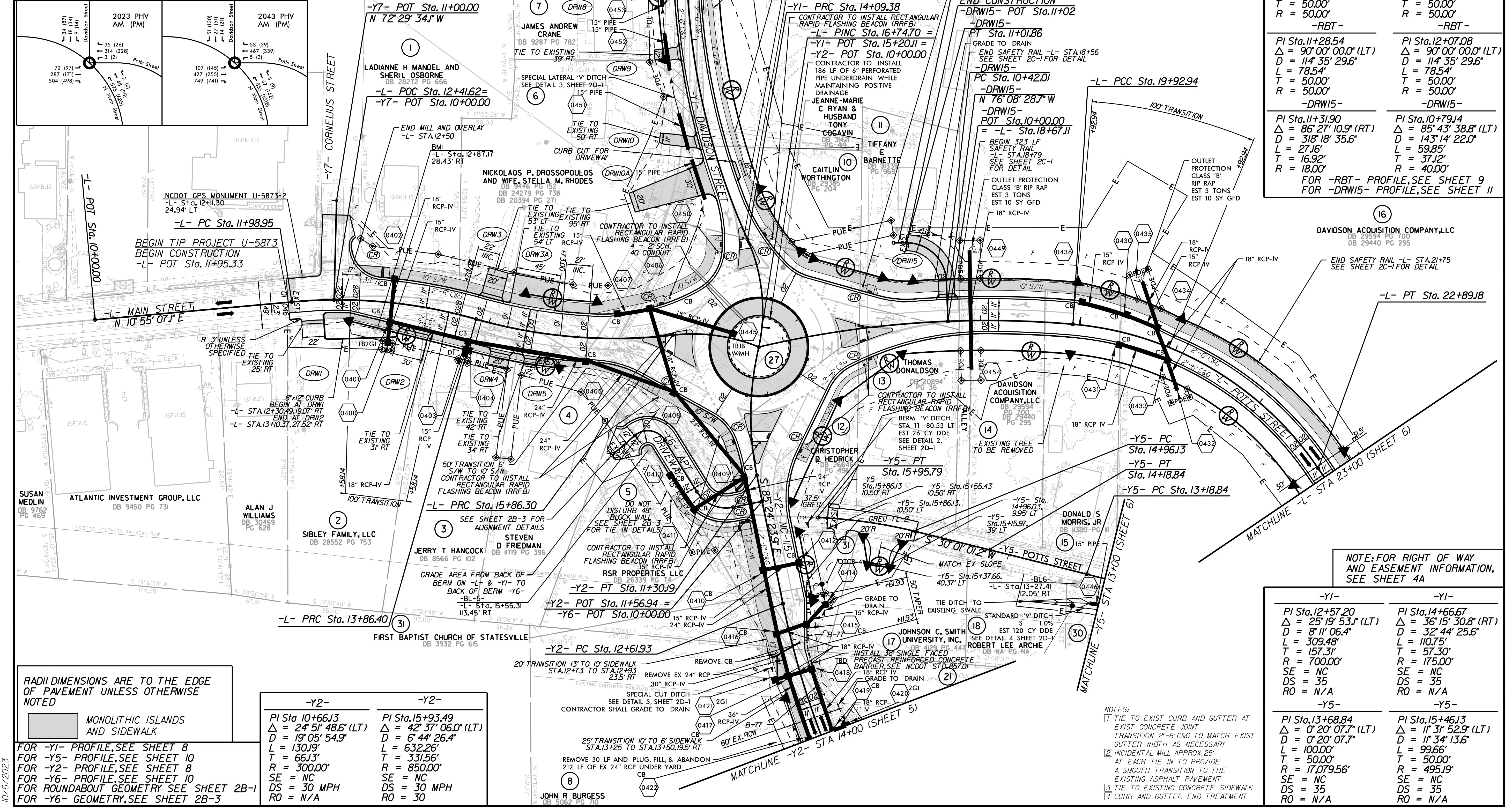
OUTLET PROTECTION CLASS 'B' RIP RAP EST 2 TONS EST 7 SY GFD



PROJECT REFERENCE NO. U-5873	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
SEAL 037923	SEAL 032615
DocuSigned by: Frank Matheson	DocuSigned by: Jason Lawing
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-RBT-	-RBT-
PI Sta. 10+50.00 Δ = 90° 00' 00.0" (LT) D = 114' 35' 29.6" L = 78.54' T = 50.00' R = 50.00'	PI Sta. 12+85.62 Δ = 90° 00' 00.0" (LT) D = 114' 35' 29.6" L = 78.54' T = 50.00' R = 50.00'
-RBT-	-RBT-
PI Sta. 11+28.54 Δ = 90° 00' 00.0" (LT) D = 114' 35' 29.6" L = 78.54' T = 50.00' R = 50.00'	PI Sta. 12+07.08 Δ = 90° 00' 00.0" (LT) D = 114' 35' 29.6" L = 78.54' T = 50.00' R = 50.00'
-RBT-	-RBT-
PI Sta. 11+31.90 Δ = 86° 27' 10.9" (RT) D = 318' 18' 35.6" L = 27.16' T = 16.92' R = 18.00'	PI Sta. 10+79.14 Δ = 85° 43' 38.8" (LT) D = 143' 14' 22.0" L = 59.85' T = 37.12' R = 40.00'
FOR -RBT- PROFILE, SEE SHEET 9 FOR -DRW15- PROFILE, SEE SHEET 11	



RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

MONOLITHIC ISLANDS AND SIDEWALK

-Y2-	-Y2-
PI Sta 10+66.13 Δ = 24° 51' 48.6" (LT) D = 19' 05' 54.9" L = 130.19' T = 66.13' R = 300.00' SE = NC DS = 30 MPH RO = N/A	PI Sta. 15+93.49 Δ = 42° 37' 06.0" (LT) D = 6' 44' 26.4" L = 632.26' T = 331.56' R = 850.00' SE = NC DS = 30 MPH RO = 30

FOR -Y1- PROFILE, SEE SHEET 8
FOR -Y5- PROFILE, SEE SHEET 10
FOR -Y2- PROFILE, SEE SHEET 8
FOR -Y6- PROFILE, SEE SHEET 10
FOR ROUNDABOUT GEOMETRY SEE SHEET 2B-1
FOR -Y6- GEOMETRY, SEE SHEET 2B-3

NOTE: FOR RIGHT OF WAY AND EASEMENT INFORMATION, SEE SHEET 4A

-Y1-	-Y1-
PI Sta. 12+57.20 Δ = 25° 19' 53.7" (LT) D = 8' 11' 06.4" L = 309.48' T = 157.31' R = 700.00' SE = NC DS = 35 RO = N/A	PI Sta. 14+66.67 Δ = 36° 15' 30.8" (RT) D = 32' 44' 25.6" L = 110.75' T = 57.30' R = 175.00' SE = NC DS = 35 RO = N/A
-Y5-	-Y5-
PI Sta. 13+68.84 Δ = 0° 20' 07.7" (LT) D = 0' 20' 07.7" L = 100.00' T = 50.00' R = 17,079.56' SE = NC DS = 35 RO = N/A	PI Sta. 15+46.13 Δ = 11° 31' 52.9" (LT) D = 11' 34' 13.6" L = 99.66' T = 50.00' R = 495.19' SE = NC DS = 35 RO = N/A

- NOTES:
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
 - INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT
 - TIE TO EXISTING CONCRETE SIDEWALK
 - CURB AND GUTTER END TREATMENT

10/16/2023

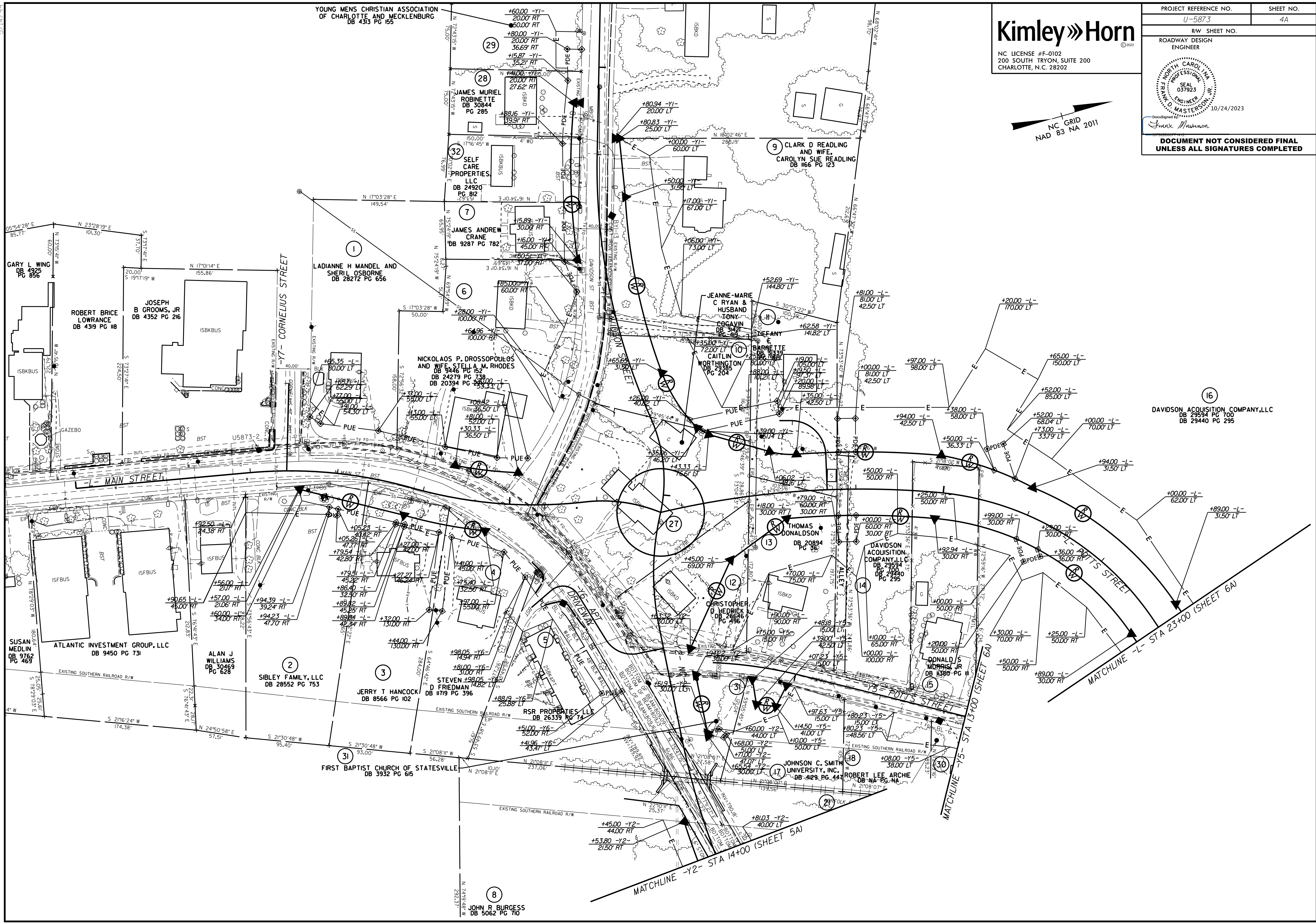
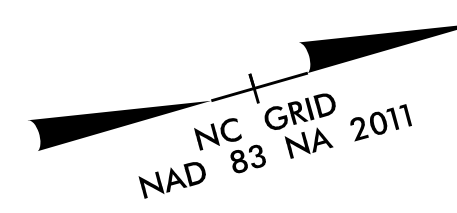
5/14/23

YOUNG MENS CHRISTIAN ASSOCIATION
OF CHARLOTTE AND MECKLENBURG
DB 4313 PG 155

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO.	SHEET NO.
U-5873	4A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
10/24/2023	
<i>Frank Mashanon</i> DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



GARY L WING
DB 4925
PG 856

ROBERT BRICE
LOWRANCE
DB 4319 PG 118

JOSEPH
B GROOMS, JR
DB 4352 PG 216

LADIANNE H MANDEL AND
SHERIL OSBORNE
DB 28272 PG 656

JAMES ANDREW
CRANE
DB 9287 PG 782

NICKOLAOS P. DROSSOPOULOS
AND WIFE STELLA M. RHODES
DB 24279 PG 758
DB 20394 PG 330

JEANNE-MARIE
C RYAN &
HUSBAND
TONY
EGGAVIN
DB 3122
PG 418

BARRIETTE
DB 1335
PG 133

DAVIDSON ACQUISITION COMPANY, LLC
DB 29534 PG 100
DB 29440 PG 295

DAVIDSON ACQUISITION COMPANY, LLC
DB 29534 PG 100
DB 29440 PG 295

SUSAN
MEDLIN
DB 9762
PG 469

ATLANTIC INVESTMENT GROUP, LLC
DB 9450 PG 731

ALAN J
WILLIAMS
DB 30469
PG 628

SIBLEY FAMILY, LLC
DB 28552 PG 753

JERRY T HANCOCK
DB 8566 PG 102

STEVEN
D FRIEDMAN
DB 1719 PG 396

RSR PROPERTIES, LLC
DB 26339 PG 74

CHRISTOPHER
D HEDRICK
DB 2886
PG 2886

THOMAS
DONALDSON
DB 20894
PG 36

DAVIDSON ACQUISITION COMPANY, LLC
DB 29534 PG 100
DB 29440 PG 295

DONALD S
MORRIS, JR
DB 1380 PG 11

FIRST BAPTIST CHURCH OF STATESVILLE
DB 3932 PG 615

JOHNSON C. SMITH
UNIVERSITY, INC.
DB 4123 PG 441

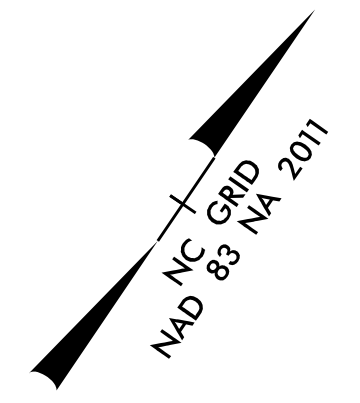
ROBERT LEE ARCHIE
DB NA PG NA

JOHN R BURGESS
DB 5062 PG 710

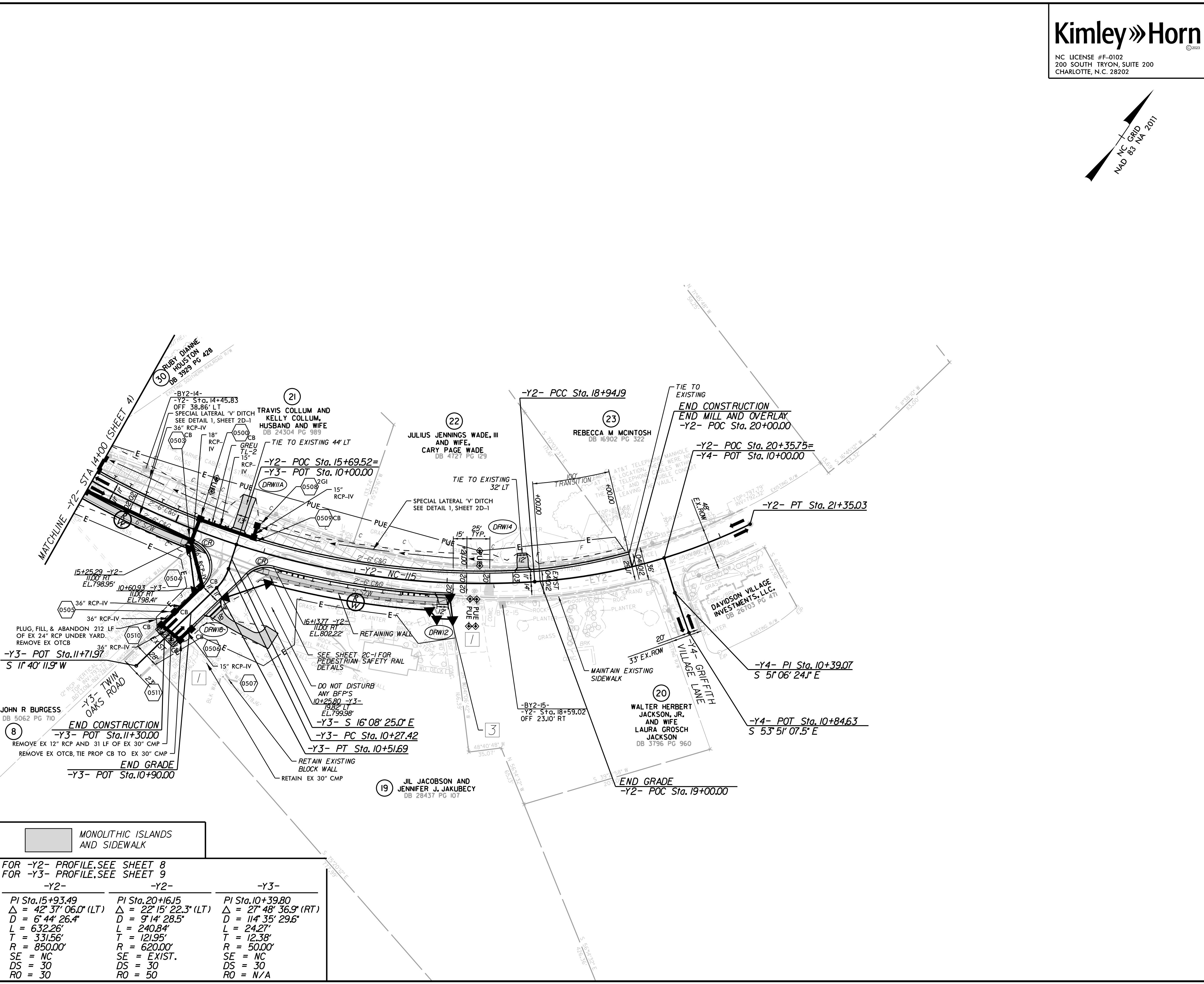
MATCHLINE -Y2- STA 14+00 (SHEET 5A)

MATCHLINE -L- STA 13+00 (SHEET 6A)

MATCHLINE -L- STA 23+00 (SHEET 6A)



PROJECT REFERENCE NO. U-5873	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Frank M. Johnson	Jason Leving
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MONOLITHIC ISLANDS AND SIDEWALK

FOR -Y2- PROFILE, SEE SHEET 8
FOR -Y3- PROFILE, SEE SHEET 9

-Y2-	-Y2-	-Y3-
PI Sta. 15+93.49	PI Sta. 20+16.15	PI Sta. 10+39.80
$\Delta = 42^\circ 37' 06.0''$ (LT)	$\Delta = 22^\circ 15' 22.3''$ (LT)	$\Delta = 27^\circ 48' 36.9''$ (RT)
D = 6' 44' 26.4"	D = 9' 14' 28.5"	D = 114' 35' 29.6"
L = 632.26'	L = 240.84'	L = 24.27'
T = 331.56'	T = 121.95'	T = 12.38'
R = 850.00'	R = 620.00'	R = 50.00'
SE = NC	SE = EXIST.	SE = NC
DS = 30	DS = 30	DS = 30
RO = 30	RO = 50	RO = N/A

NOTE: FOR RIGHT OF WAY AND EASEMENT INFORMATION, SEE SHEET 5A

RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

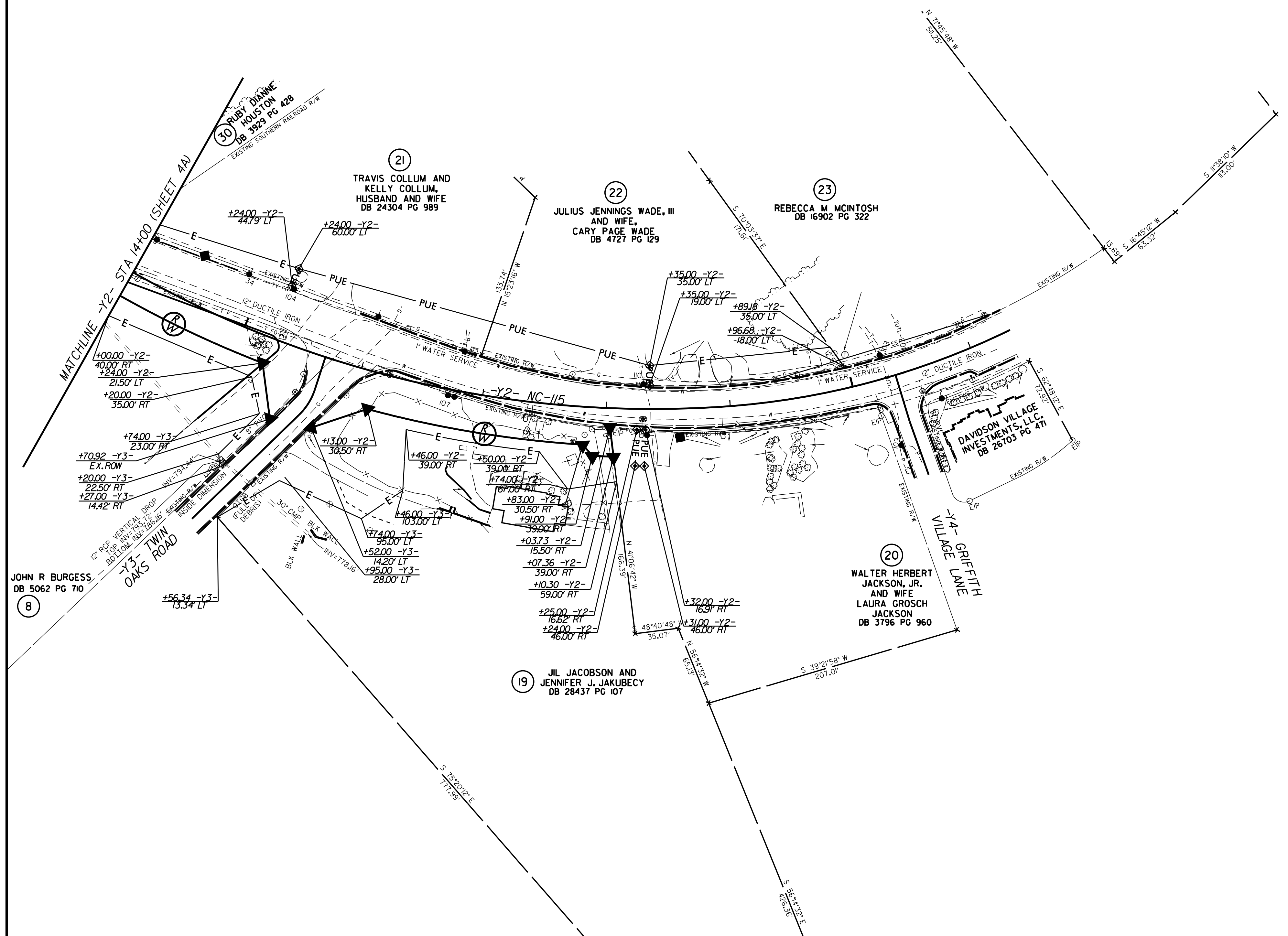
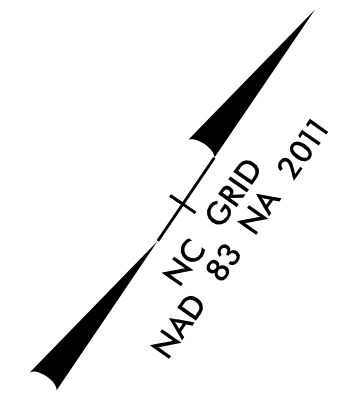
- NOTES:
- 1 TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT. TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
 - 2 INCIDENTAL MILL APPROX. 2.5' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT
 - 3 TIE TO EXISTING CONCRETE SIDEWALK
 - 4 CURB AND GUTTER END TREATMENT

5/14/23

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO.	SHEET NO.
U-5873	5A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
<i>W.D. Masterson</i> DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



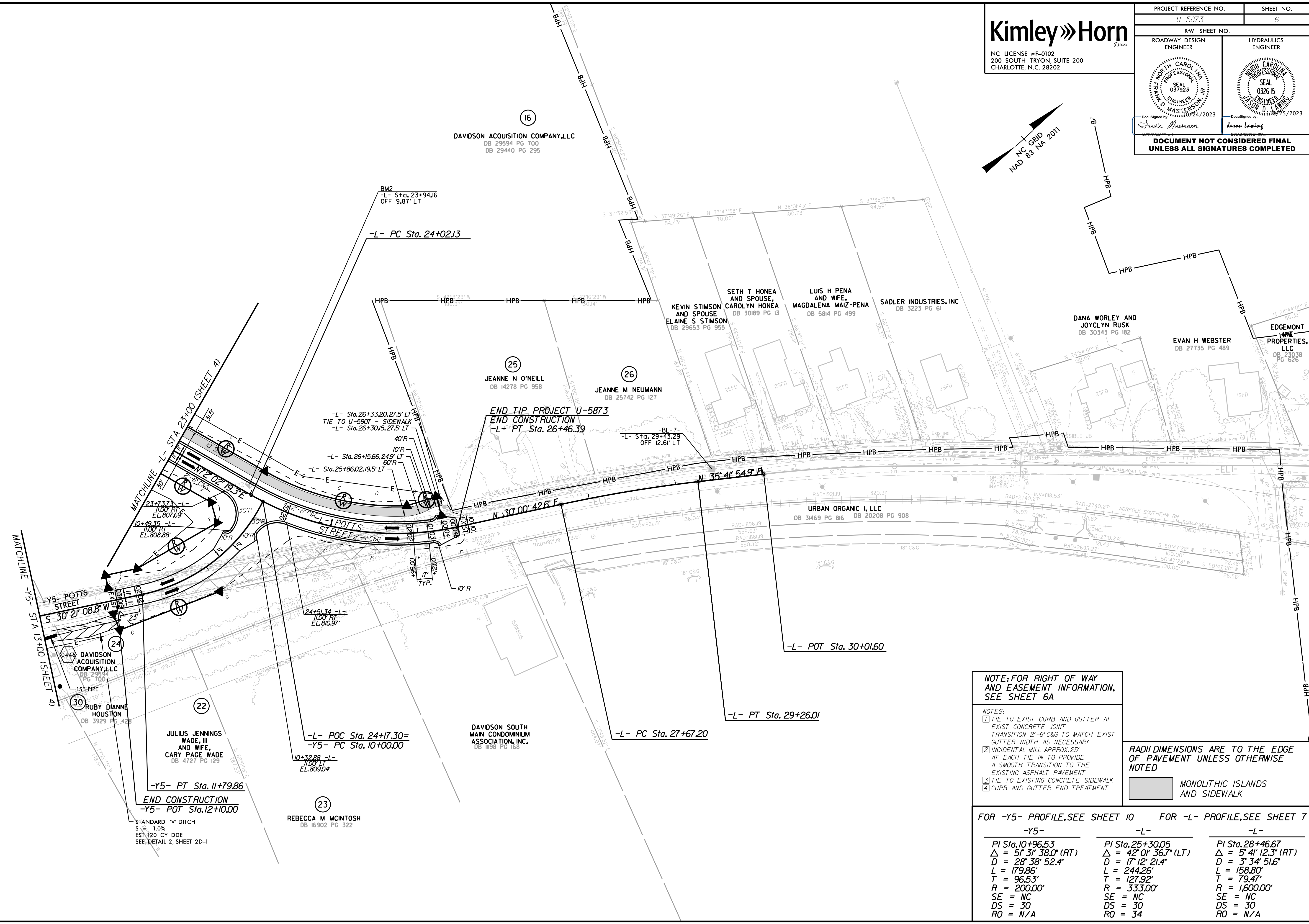
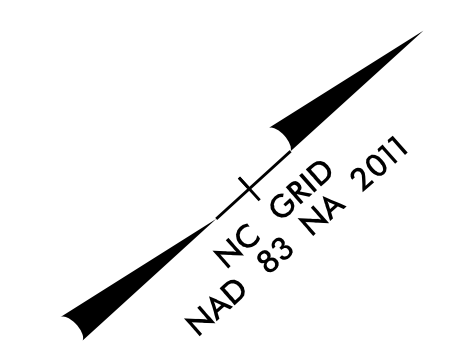
5/14/2023

10/6/2023

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON, SUITE 200
CHARLOTTE, N.C. 28202

PROJECT REFERENCE NO. U-5873	SHEET NO. 6
ROADWAY DESIGN ENGINEER SEAL 037923 JONAS D. MASTERSON	HYDRAULICS ENGINEER SEAL 032615 JASON D. LAWING
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTE: FOR RIGHT OF WAY AND EASEMENT INFORMATION, SEE SHEET 6A

- NOTES:**
- 1) TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
 - 2) INCIDENTAL MILL APPROX. 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT
 - 3) TIE TO EXISTING CONCRETE SIDEWALK
 - 4) CURB AND GUTTER END TREATMENT

RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED

MONOLITHIC ISLANDS AND SIDEWALK

FOR -Y5- PROFILE, SEE SHEET 10 FOR -L- PROFILE, SEE SHEET 7

-Y5-	-L-	-L-
PI Sta. 10+96.53	PI Sta. 25+30.05	PI Sta. 28+46.67
Δ = 51' 31" 38.0" (RT)	Δ = 42' 01" 36.7" (LT)	Δ = 5' 41" 12.3" (RT)
D = 28' 38" 52.4"	D = 17' 12" 21.4"	D = 3' 34" 51.6"
L = 179.86'	L = 244.26'	L = 158.80'
T = 96.53'	T = 127.92'	T = 79.47'
R = 200.00'	R = 333.00'	R = 1,600.00'
SE = NC	SE = NC	SE = NC
DS = 30	DS = 30	DS = 30
RO = N/A	RO = 34	RO = N/A