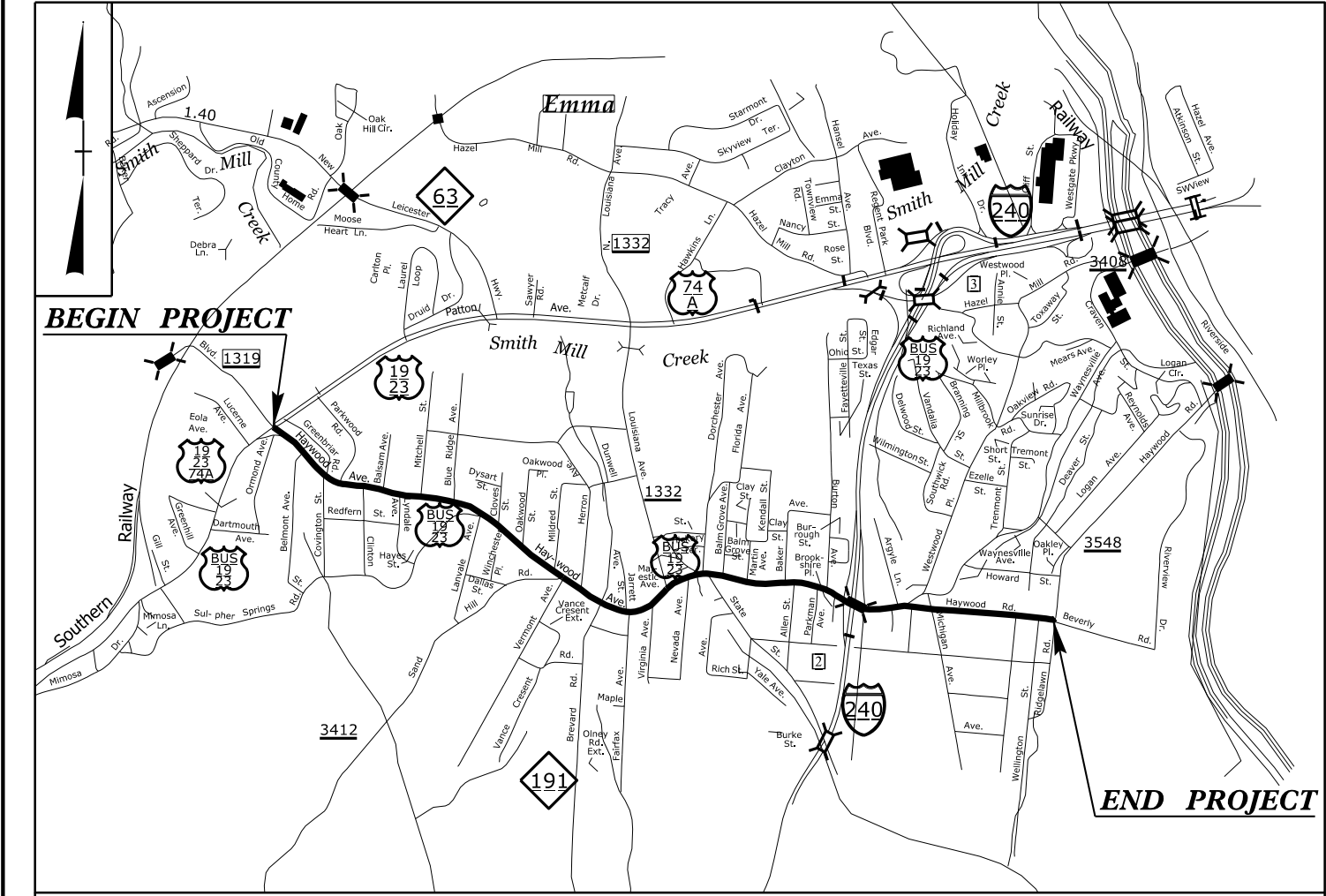


09.08/2019

See Sheet 1A For Index of Sheets



VICINITY MAP N.T.S

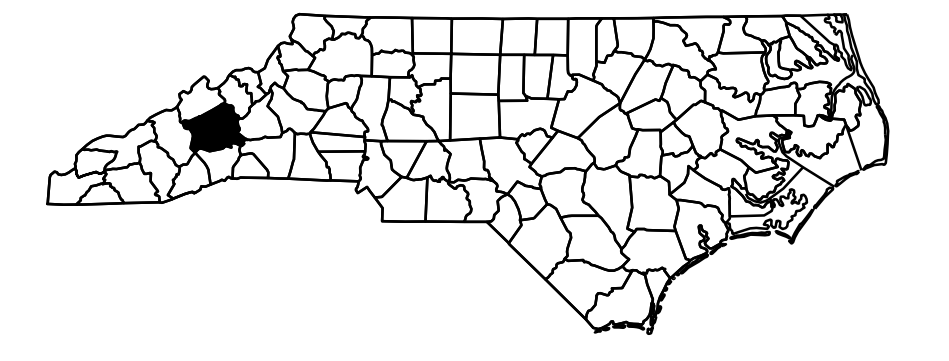
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE

LOCATION: US 19 /23 BUSINESS (HAYWOOD ROAD)
FROM US 19/23/74 (PATTON AVE.) TO RIDGELAWN RD.

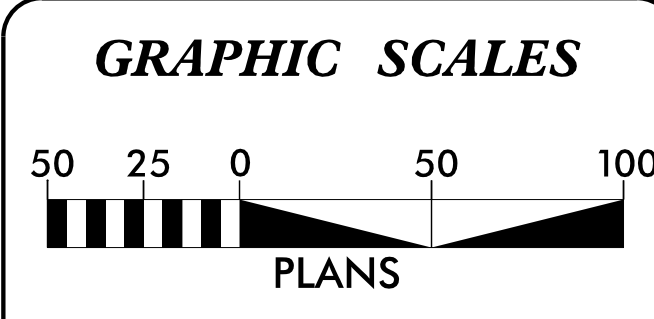
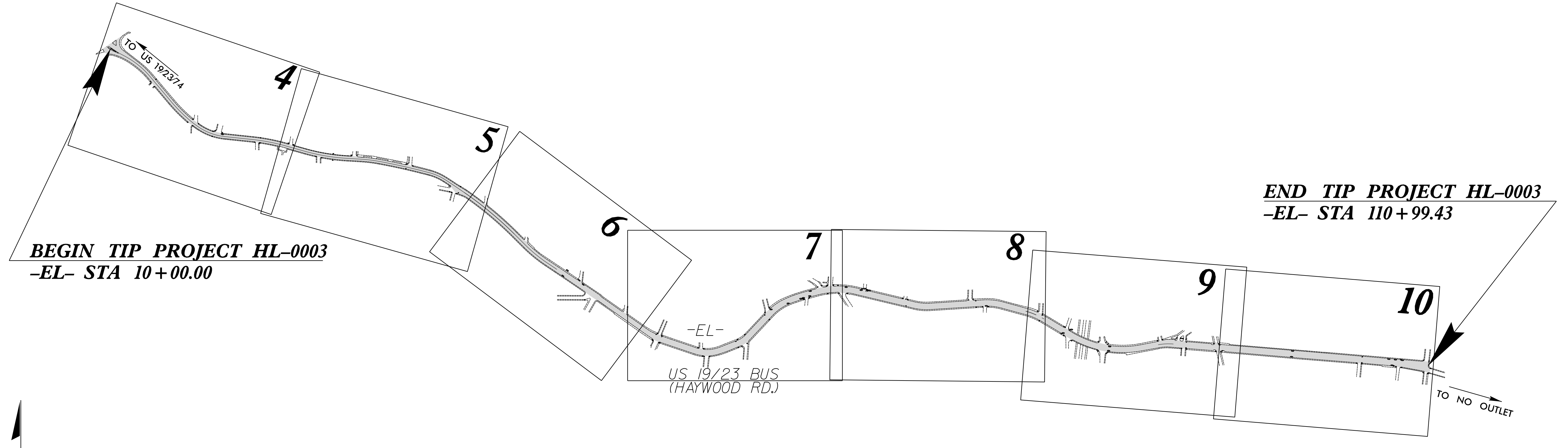
TYPE OF WORK: DRAINAGE, PAVING, AND SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HL-0003	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49467.1.1	0019064	P.E.	
49467.2.1	0019064	R/W	
49467.3.1	0019064	CONST.	



TIP PROJECT: HL-0003

CONTRACT: C204673



DESIGN DATA
ADT 2020 = 11,400
V = 20 MPH

FUNC CLASS =
MINOR ARTERIAL
REGIONAL TIER

PROJECT LENGTH
LENGTH ROADWAY TIP PROJECT HL-0003 = 1.91 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

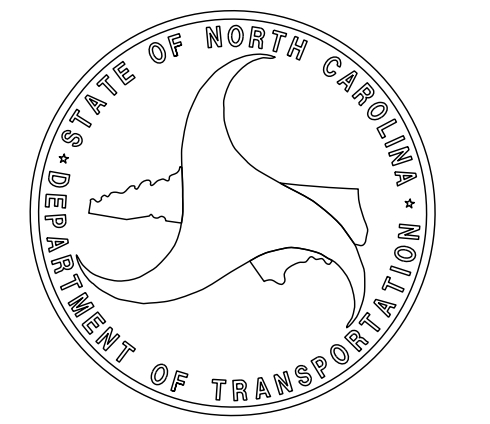
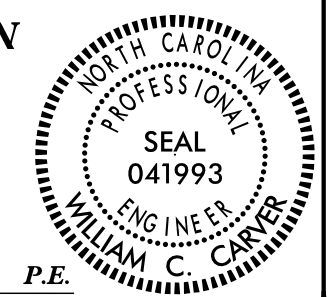
2024 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE: **BRENDAN W. MERITHEW, P.E.**
PROJECT ENGINEER

LETTING DATE: **WILLIAM C. CARVER, P.E.**
PROJECT DESIGN ENGINEER
NOVEMBER 19, 2024

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER
DocuSigned by:
William C. Carver
163525A8519349F... 10/14/2024
SIGNATURE: _____ P.E.



14-OCT-2024, 14:31 S:\DDC\Projects\Buncombe\SR_3548_Haywood_Road\Roadway\Proj\Haywood_Rd_DDC_tsh.dgn \$\$\$USERNAME\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
HL-0003	I-A

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1 THRU 2B-2	PEDESTRIAN BULB OUT DETAILS
2C-1 THRU 2C-3	DETAIL SHEETS
3-D	DRAINAGE SUMMARIES
4 THRU 10	PLAN SHEETS
TMP-1 THRU TMP-2	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-8	PAVEMENT MARKING PLANS
EC-1 THRU EC-3	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-10	SIGNING PLANS
SIG 1.0 THRU SIG 5.0	SIGNALS PLANS

GENERAL NOTES:

2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024
REVISED:

EFF. 01-16-2024
REV.

SIDE ROADS:

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

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 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 NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

SUBSURFACE PLANS:

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

CURB RAMPS:

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE
AT&T
Duke Energy
Charter Communications
City of Asheville
Traffic Services
Metropolitan Sewer District

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

2024 ROADWAY ENGLISH STANDARD DRAWINGS

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

STD. NO.	TITLE
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 6 - ASPHALT BASES AND PAVEMENT	
654.01	Pavement Repairs for Superpave Mix Types
DIVISION 8 - INCIDENTALS	
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
840.14	Concrete Drop Inlet - for 12" thru 30" Pipe
840.15	Brick Drop Inlet - for 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
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
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
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 - Proposed Curb & Gutter
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation

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

Note: Not to Scale

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	×
Foundation	□
Area Outline	□
Cemetery	+
Building	□
School	□
Church	□
Dam	▬

HYDROLOGY:

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

RAILROADS:

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

RIGHT OF WAY & PROJECT CONTROL:

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

ROADS AND RELATED FEATURES:

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

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

EXISTING STRUCTURES:

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

UTILITIES:

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

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

WATER:

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

SANITARY SEWER:

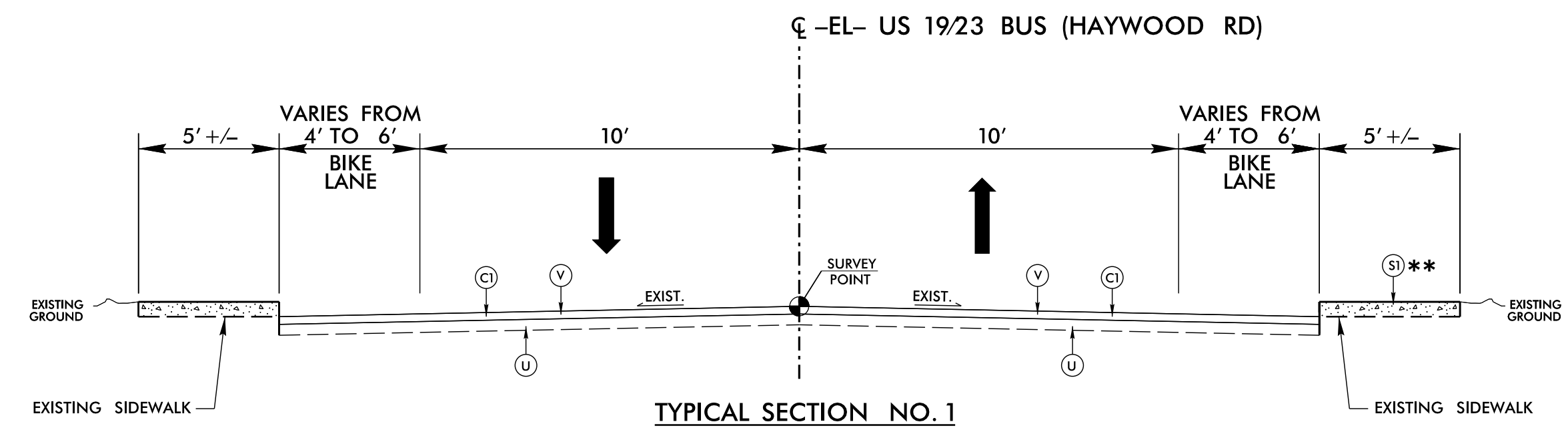
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	⊕
SS Force Main Line (SUE - LOS B)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

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.	UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

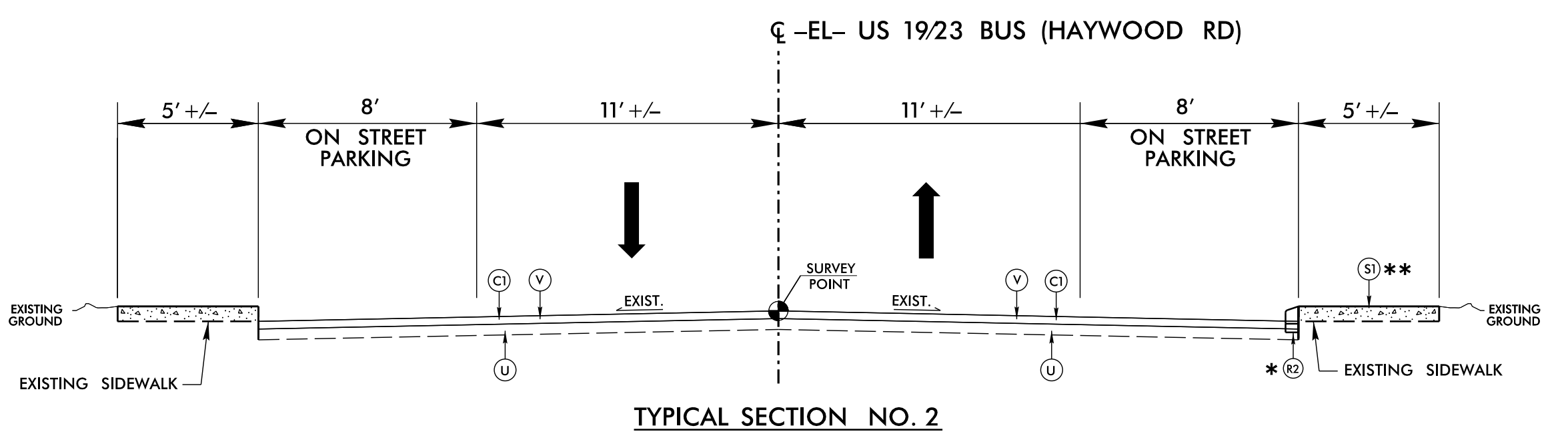
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PROJECT REFERENCE NO. <i>HL-0003</i>	SHEET NO. <i>2A-1</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



USE TYPICAL SECTION NO. 1
-L- STA. 10+00 TO STA. 36+92

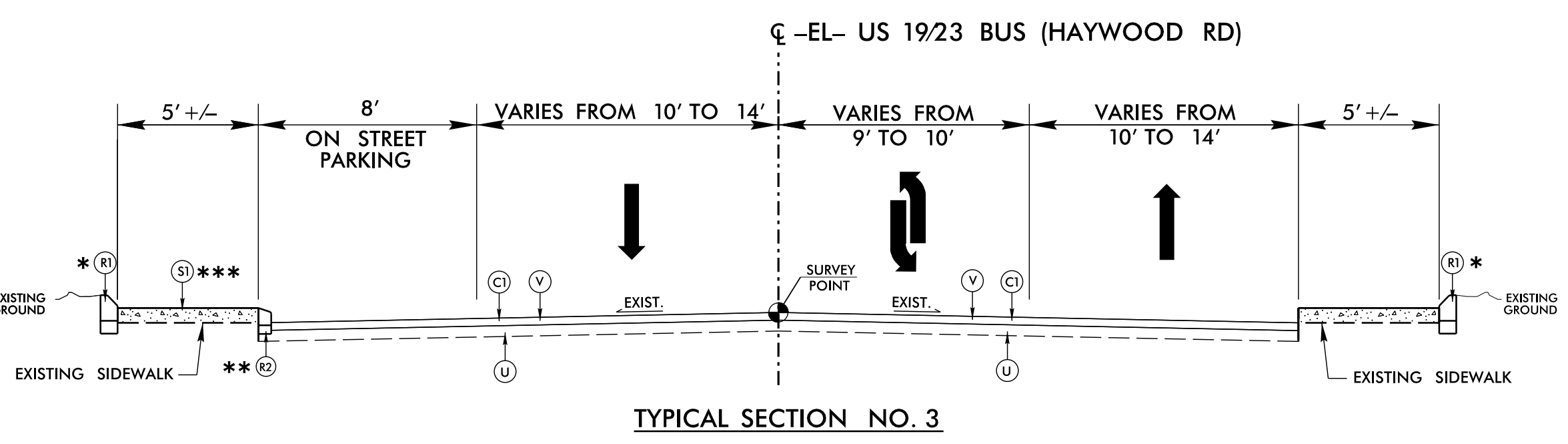
** INSTALL 4" CONCRETE SIDEWALK
-EL- STA. 36+79 +/- TO STA. 36+92 +/- RT



USE TYPICAL SECTION NO. 2
-L- STA. 36+92 TO STA. 49+00

* INSTALL 9" X 12" CONCRETE CURB
-EL- 37+49 +/- TO STA. 37+68 +/- RT

** INSTALL 4" CONCRETE SIDEWALK
-EL- STA. 37+49 +/- TO STA. 37+68 +/- RT

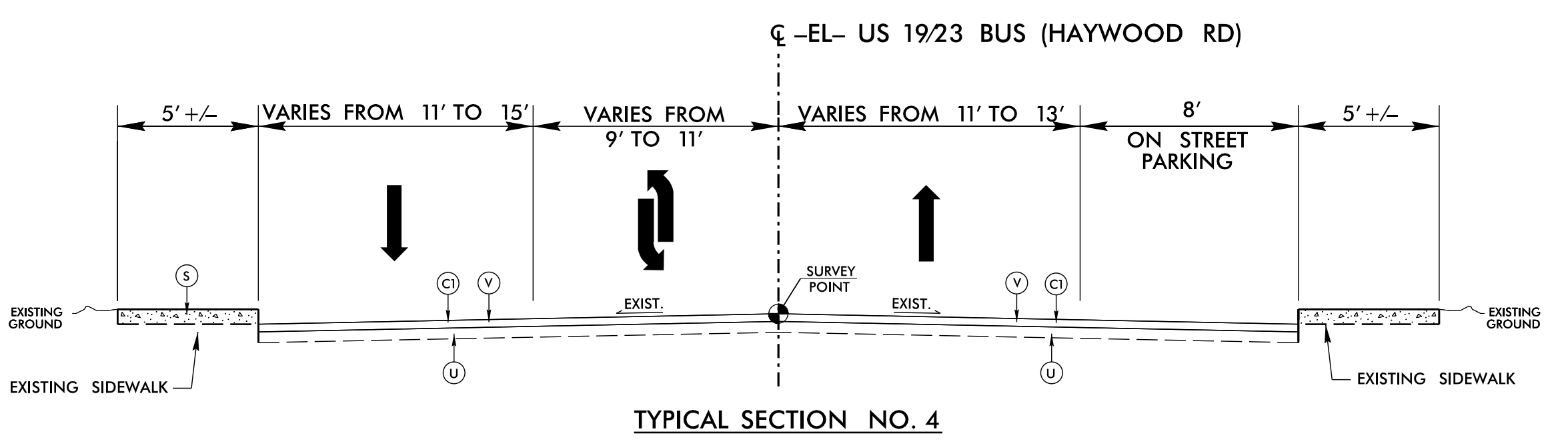


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-L- STA. 49+00 TO STA. 69+50

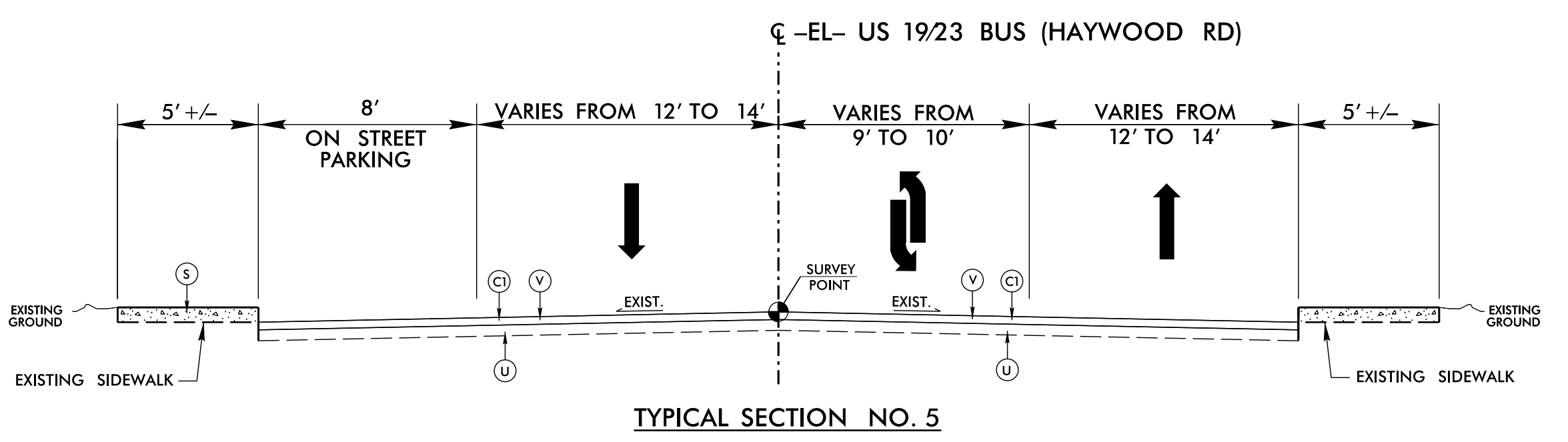
* INSTALL 8" X 12" CONCRETE CURB
-EL- STA. 60+61 +/- TO STA. 60+79 +/- RT
-EL- STA. 67+37 +/- TO STA. 67+47 +/- LT

** INSTALL 9" X 12" CONCRETE CURB
-EL- STA. 68+95 +/- TO STA. 69+05 +/- LT

*** INSTALL 4" CONCRETE SIDEWALK
-EL- STA. 68+95 +/- TO STA. 69+05 +/- LT



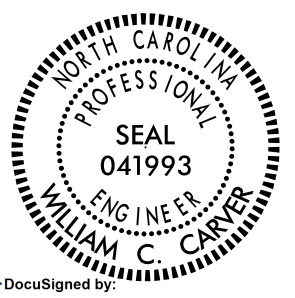
USE TYPICAL SECTION NO. 4
-L- STA. 69+50 TO 75+00

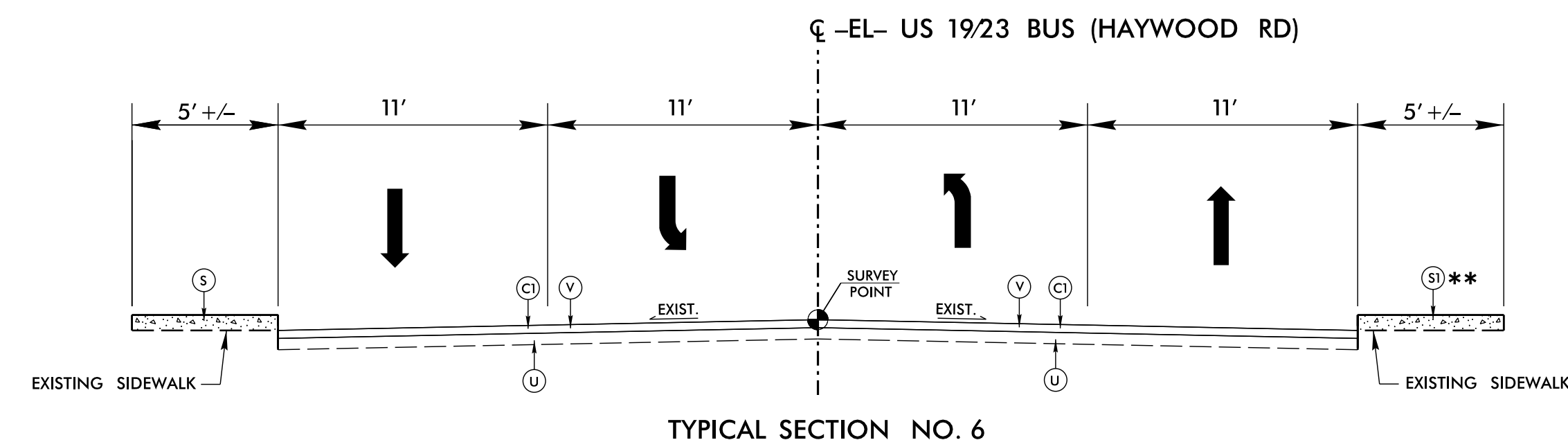


USE TYPICAL SECTION NO. 5
-L- STA. 75+00 TO STA. 85+50

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. OER SQ. YARD
R1	8" X 12" CONCRETE CURB
R2	9" X 12" CONCRETE CURB
S1	4" CONCRETE SIDEWALK
U	EXISTING PAVEMENT
V	1.5" FINE MILLING
V1	INCIDENTAL MILLING

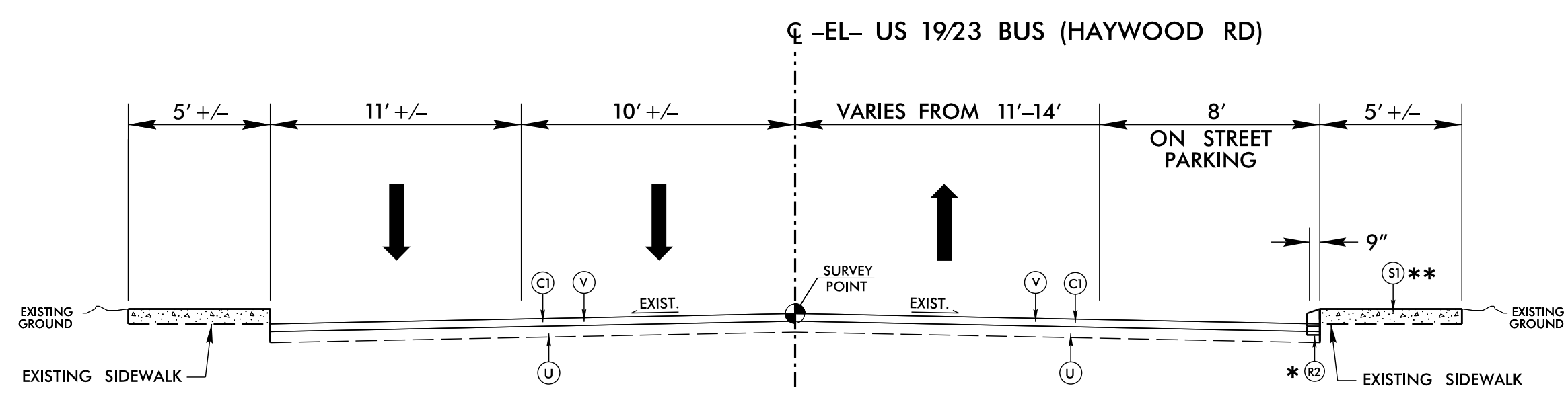
6/2/24

PROJECT REFERENCE NO. <i>HL-0003</i>	SHEET NO. <i>2A-2</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
	
Digitally signed by <i>William C. Carter</i> 07/30/2024 1E3625A8B19349F	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



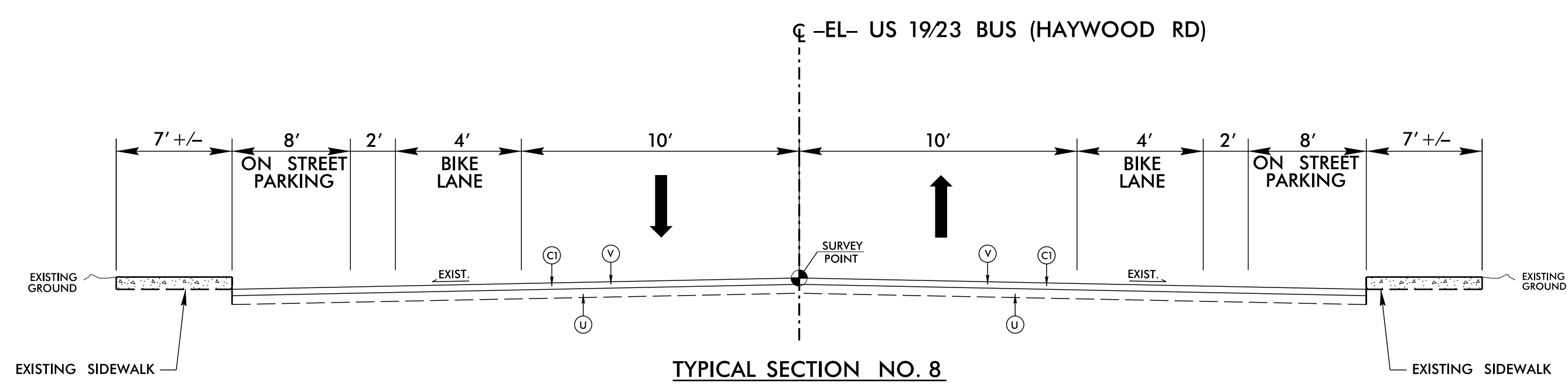
TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6
 -L- STA. 85+50 TO STA. 88+00
 ** INSTALL 4" CONCRETE SIDEWALK
 -EL- STA. 87+93 +/- TO STA. 87+99 +/- RT



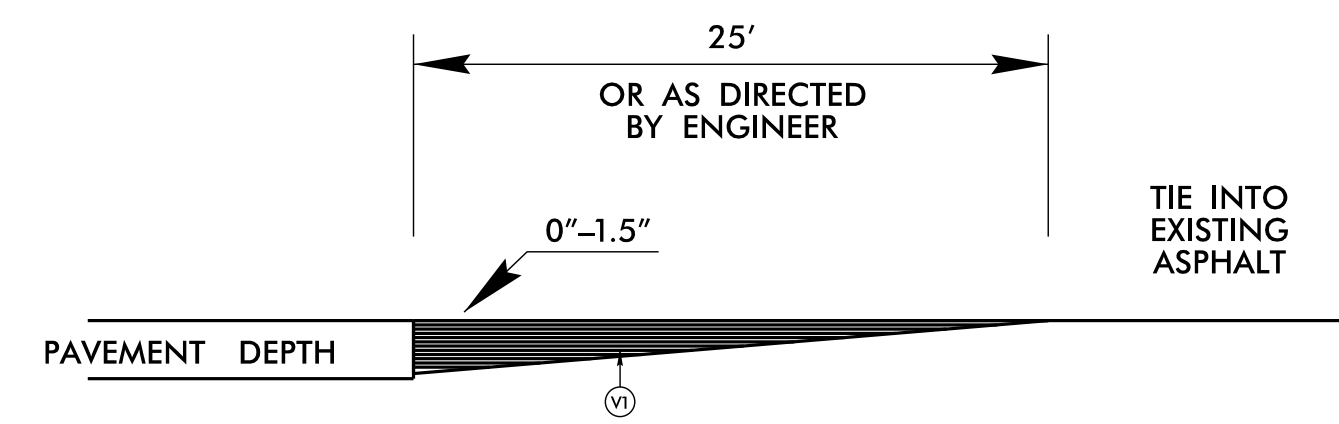
TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7
 -L- STA. 88+00 TO STA. 94+22
 * INSTALL 9" X 12" CONCRETE CURB
 -EL- STA. 93+18 +/- TO STA. 93+43 +/- RT
 ** INSTALL 4" CONCRETE SIDEWALK
 -EL- STA. 93+18 +/- TO STA. 93+43 +/- RT



TYPICAL SECTION NO. 8

USE TYPICAL SECTION NO. 8
 -L- STA. 94+22 TO STA. 111+00

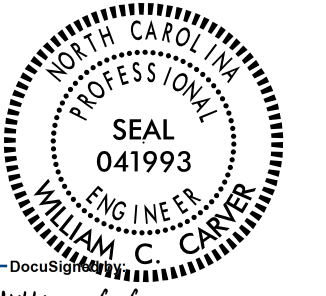


DETAIL TO TIE INTO EXIST PAVEMENT

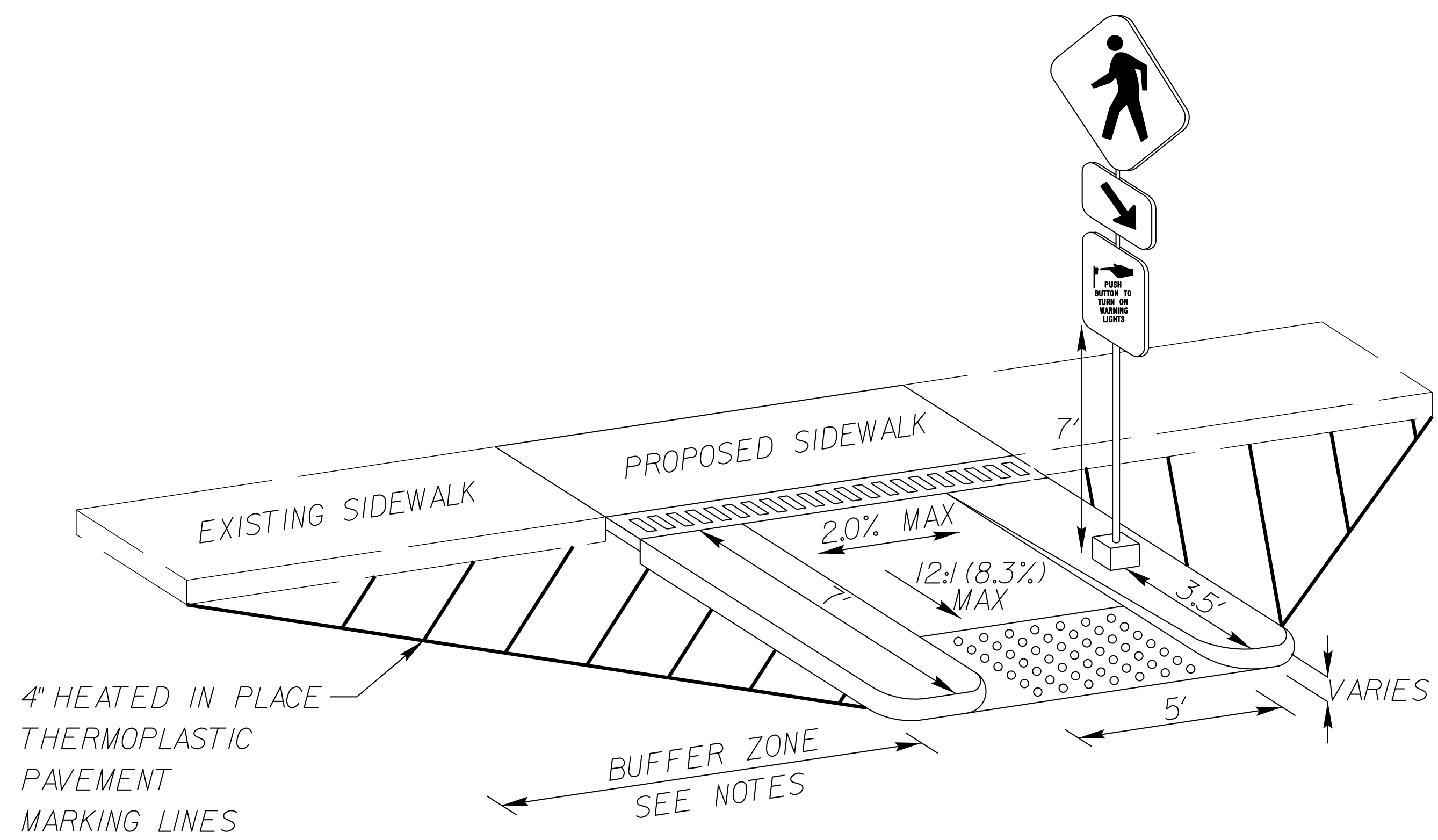
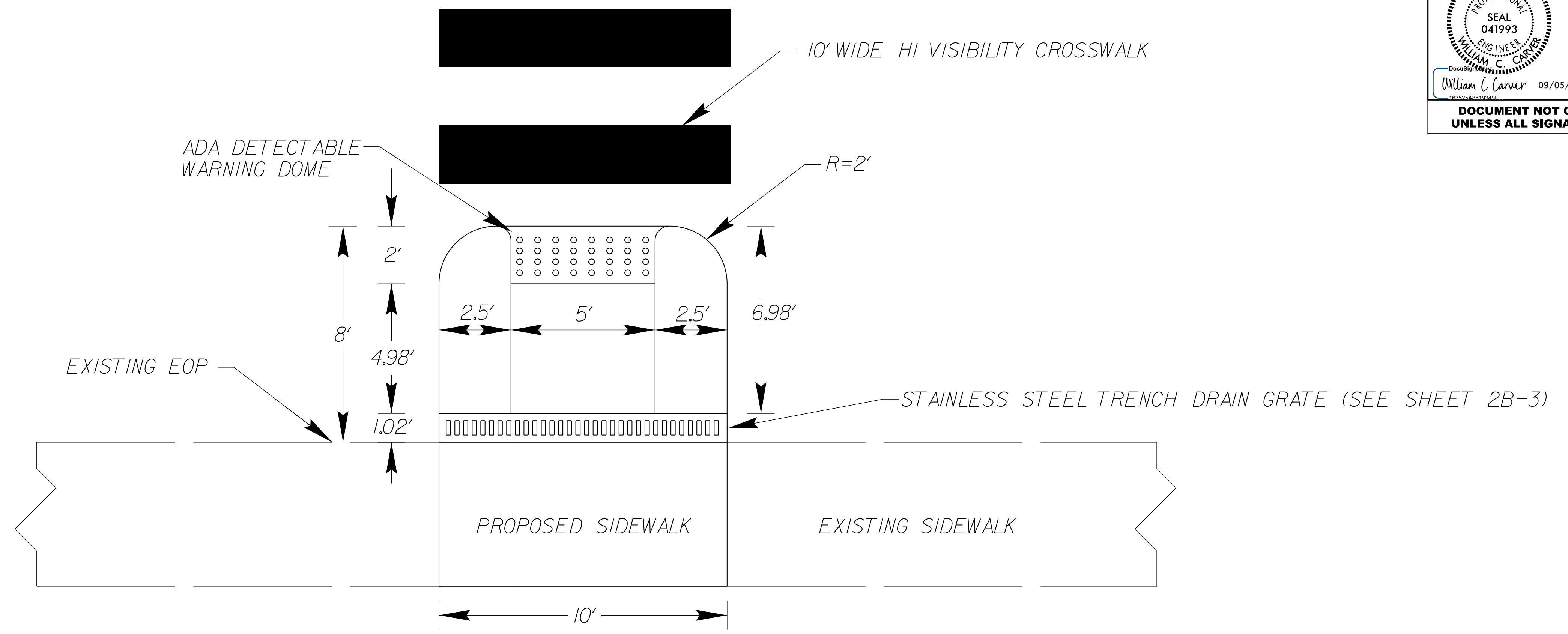
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. OER SQ. YARD
R1	8" X 12" CONCRETE CURB
R2	9" X 12" CONCRETE CURB
S1	4" CONCRETE SIDEWALK
U	EXISTING PAVEMENT
V	1.5" FINE MILLING
V1	INCIDENTAL MILLING

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 William C. Carter
 041993

6/2/2019
 05-SEP-2024 15:08
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PROJECT REFERENCE NO. <i>HL-0003</i>	SHEET NO. <i>2B-1</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
	
William C. Carver 09/05/2024 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

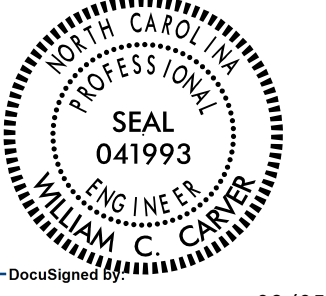
PEDESTRIAN BULBOUT DETAIL

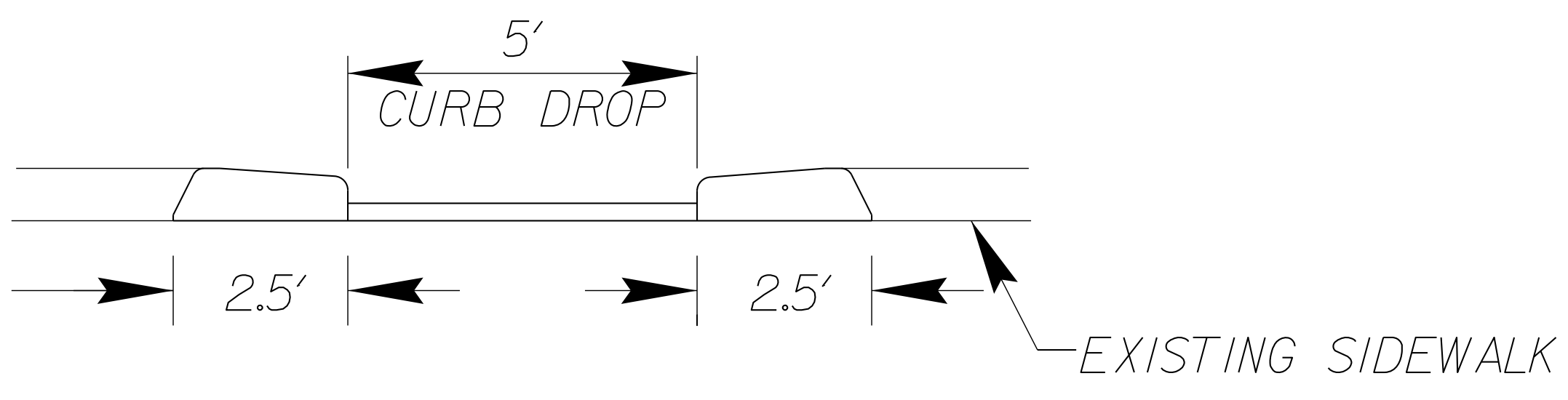
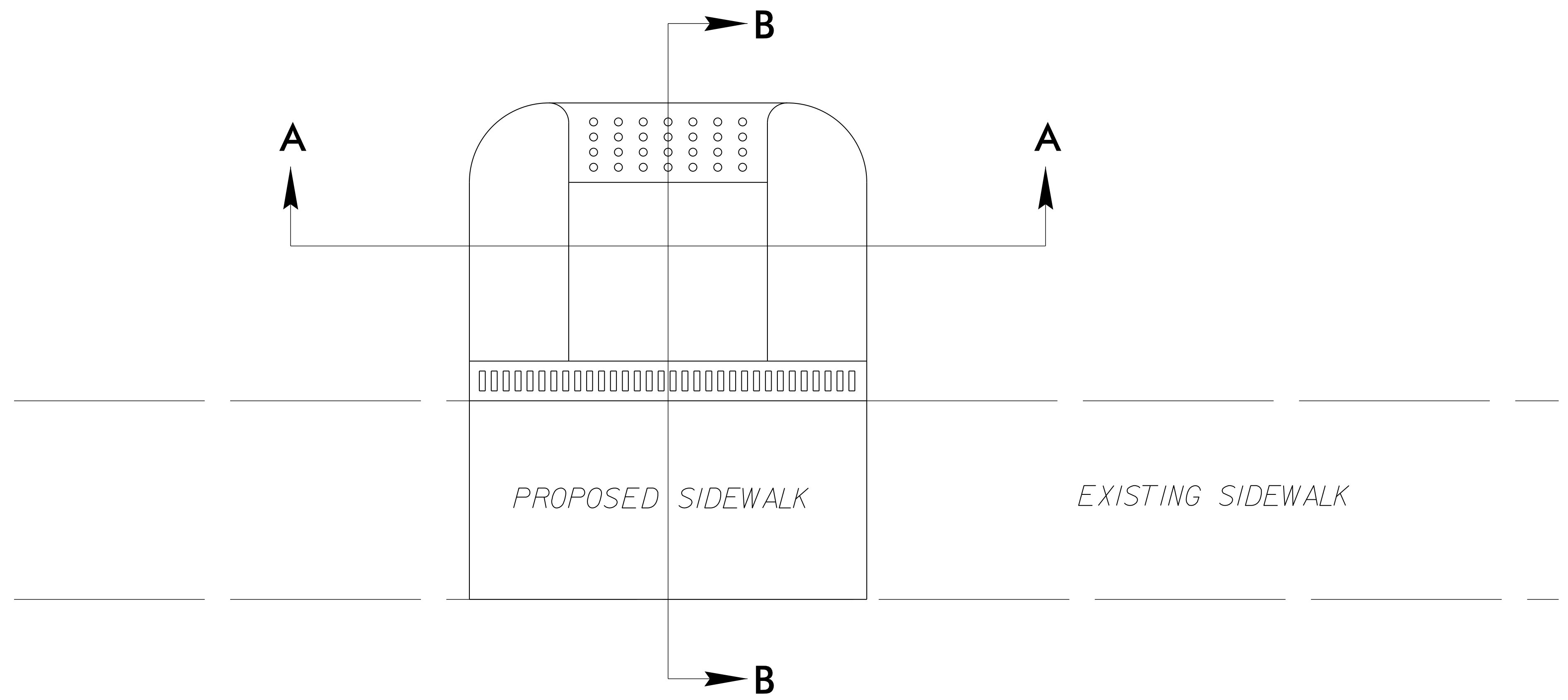


- NOTES:**
- USE CAST IRON DETECTABLE WARNINGS FOUND ON THE NCDOT APPROVED PRODUCTS LIST WITH A NATURAL FINISH TO ENCOURAGE A WEATHERED APPEARANCE LOOK AT LOCATIONS AS SHOWN IN THE PLANS. DETECTABLE WARNINGS SHALL BE APPROVED FOR USE BY THE ENGINEER PRIOR TO INSTALLATION.
 - BUFFER ZONE PAVEMENT MARKINGS SHALL BE A MINIMUM OF 20 FT IN LENGTH ON BOTH SIDES ON THE PEDESTRIAN BULB OUT AT MID BLOCK CROSSINGS.
 - BUFFER ZONE PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30 FT IN LENGTH BETWEEN THE PEDESTRIAN BULB OUT AND SIGNALIZED INTERSECTIONS.

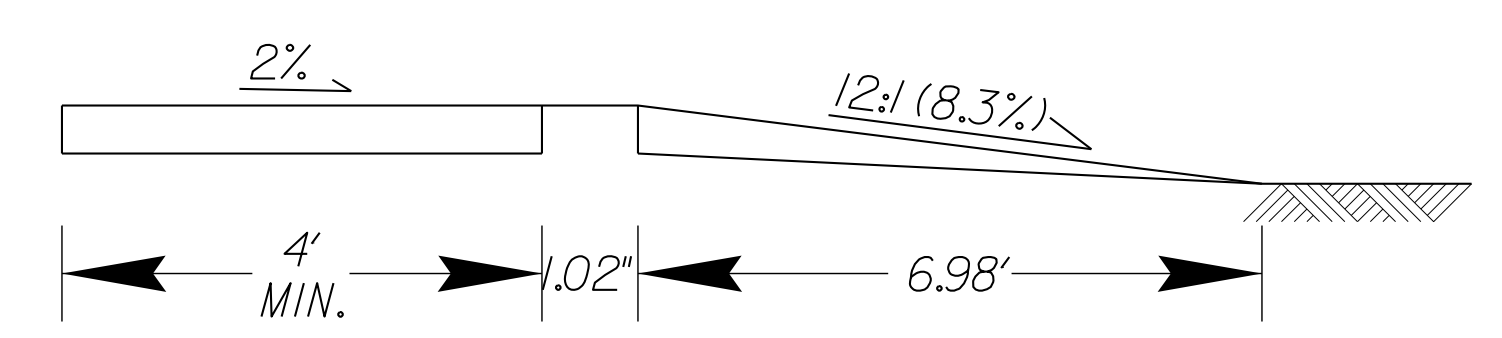
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PEDESTRIAN BULBOUT DETAIL (CONT.)

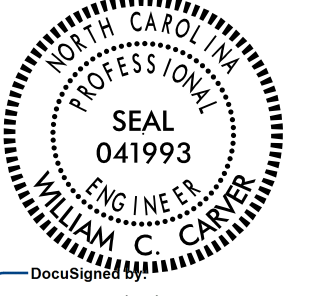
PROJECT REFERENCE NO. <i>HL-0003</i>	SHEET NO. <i>2B-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
<i>William C. Carver</i> 09/05/2024 <small>DocuSign</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



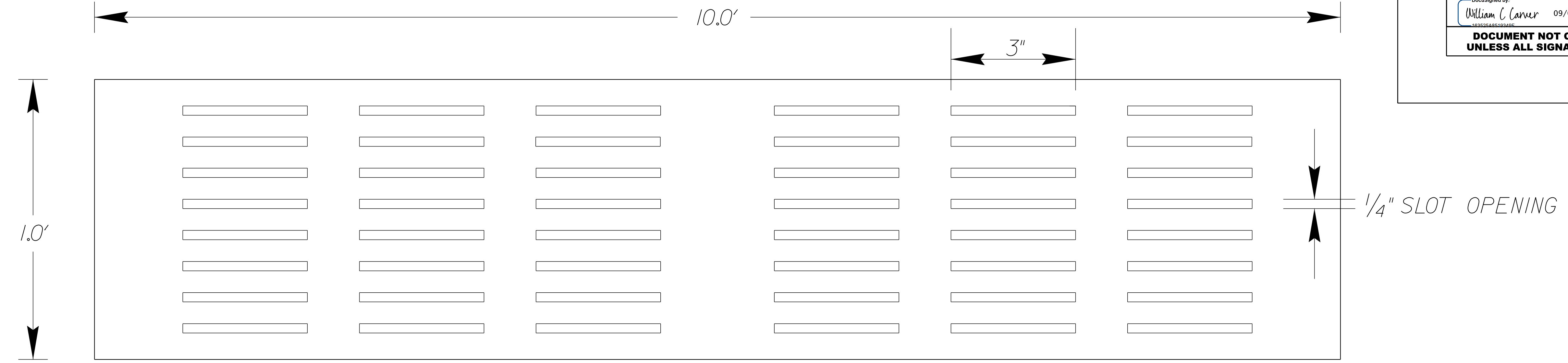
SECTION A-A



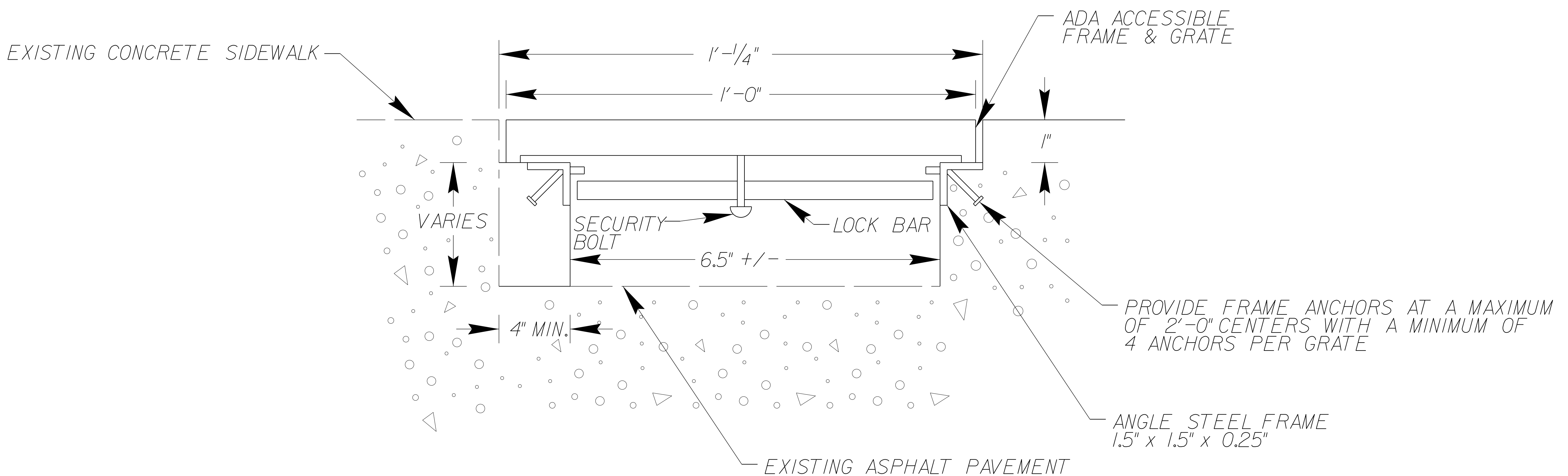
SECTION B-B

PROJECT REFERENCE NO. <i>HL-0003</i>	SHEET NO. <i>2B-3</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
William C. Carver 09/05/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PEDESTRIAN BULB OUT TRENCH DRAIN GRATE DETAIL



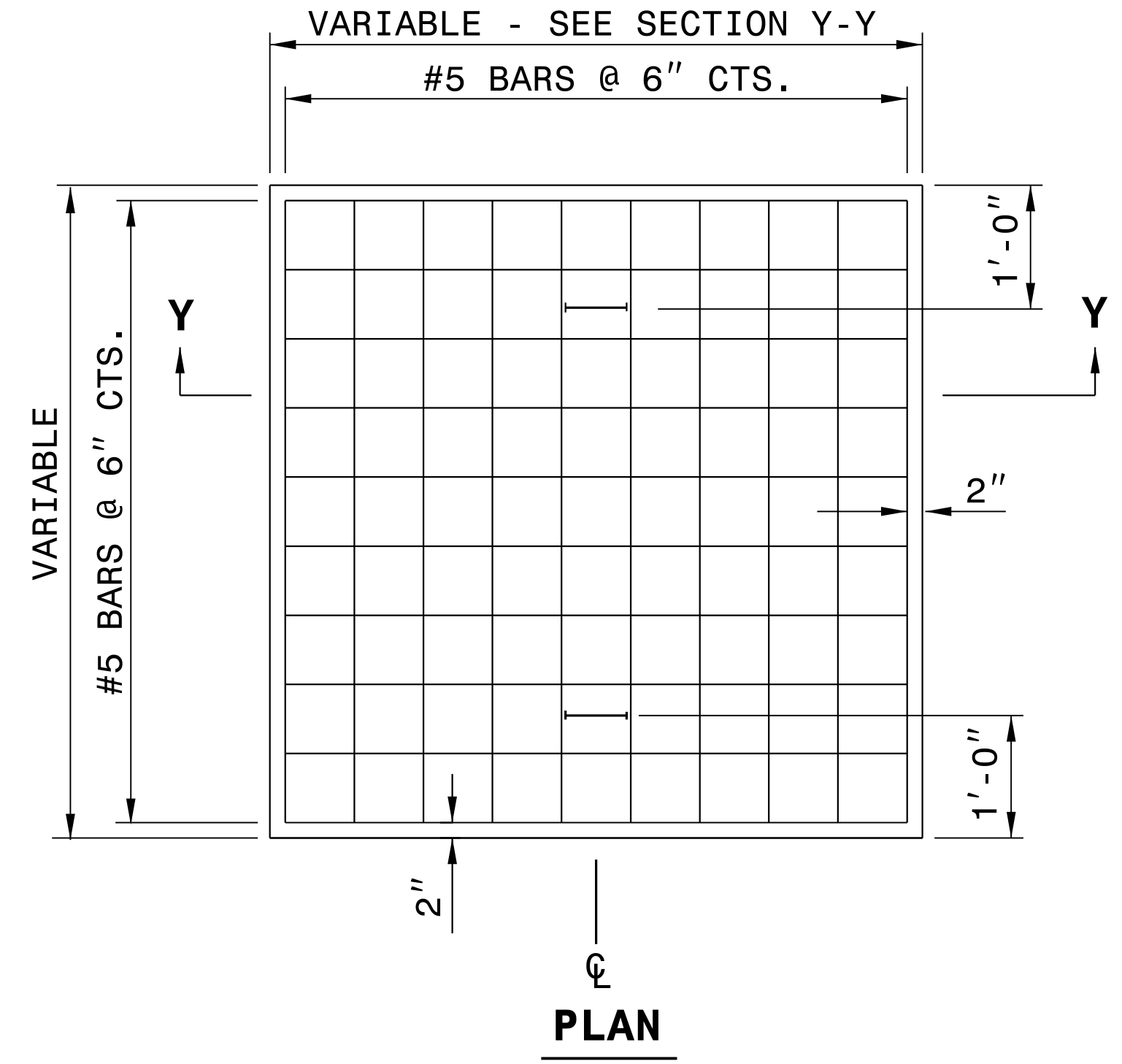
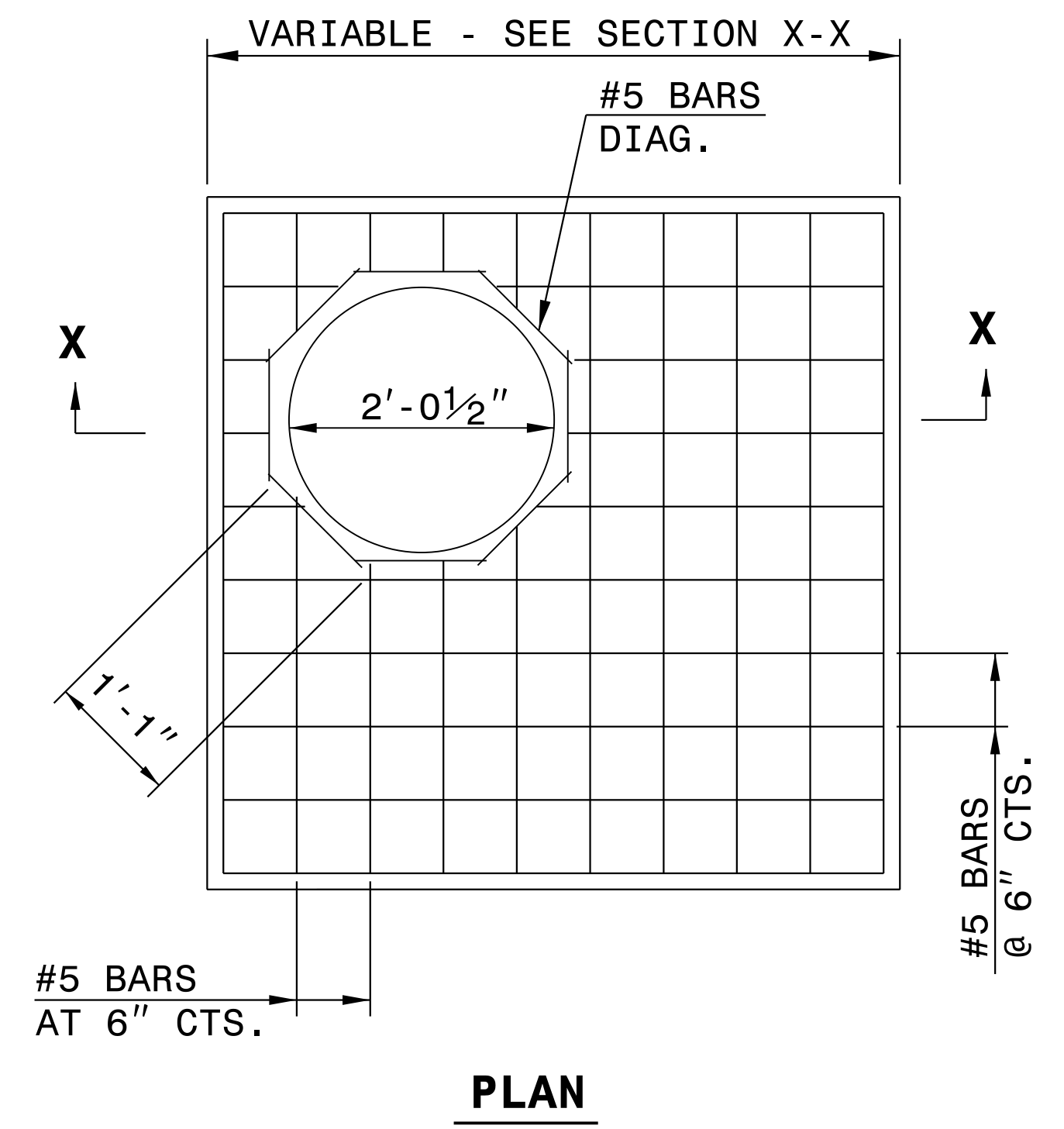
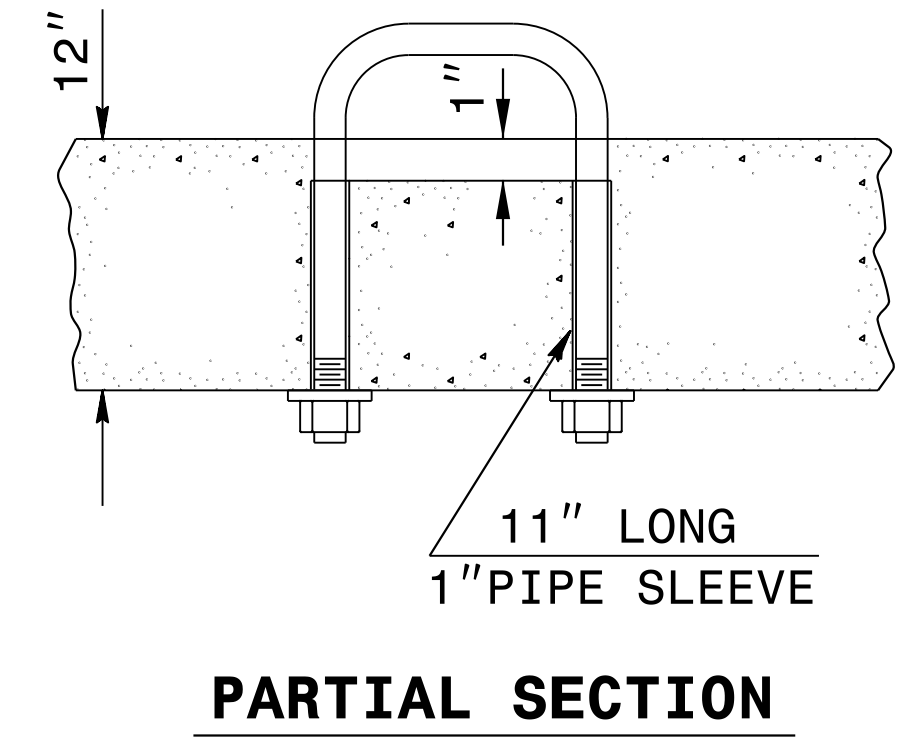
12" WIDE ADA STAINLESS STEEL GRATE



CROSS SECTION

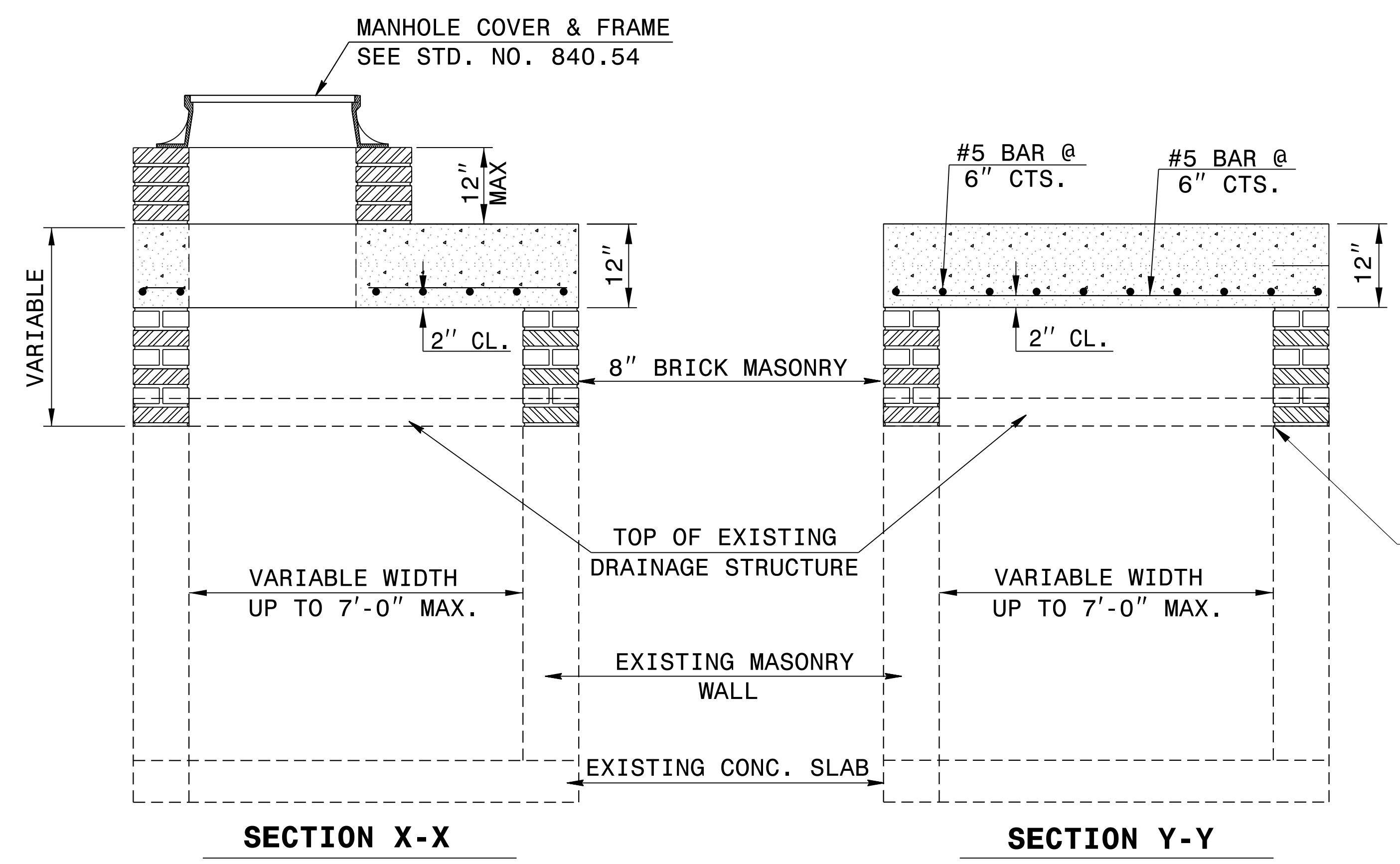
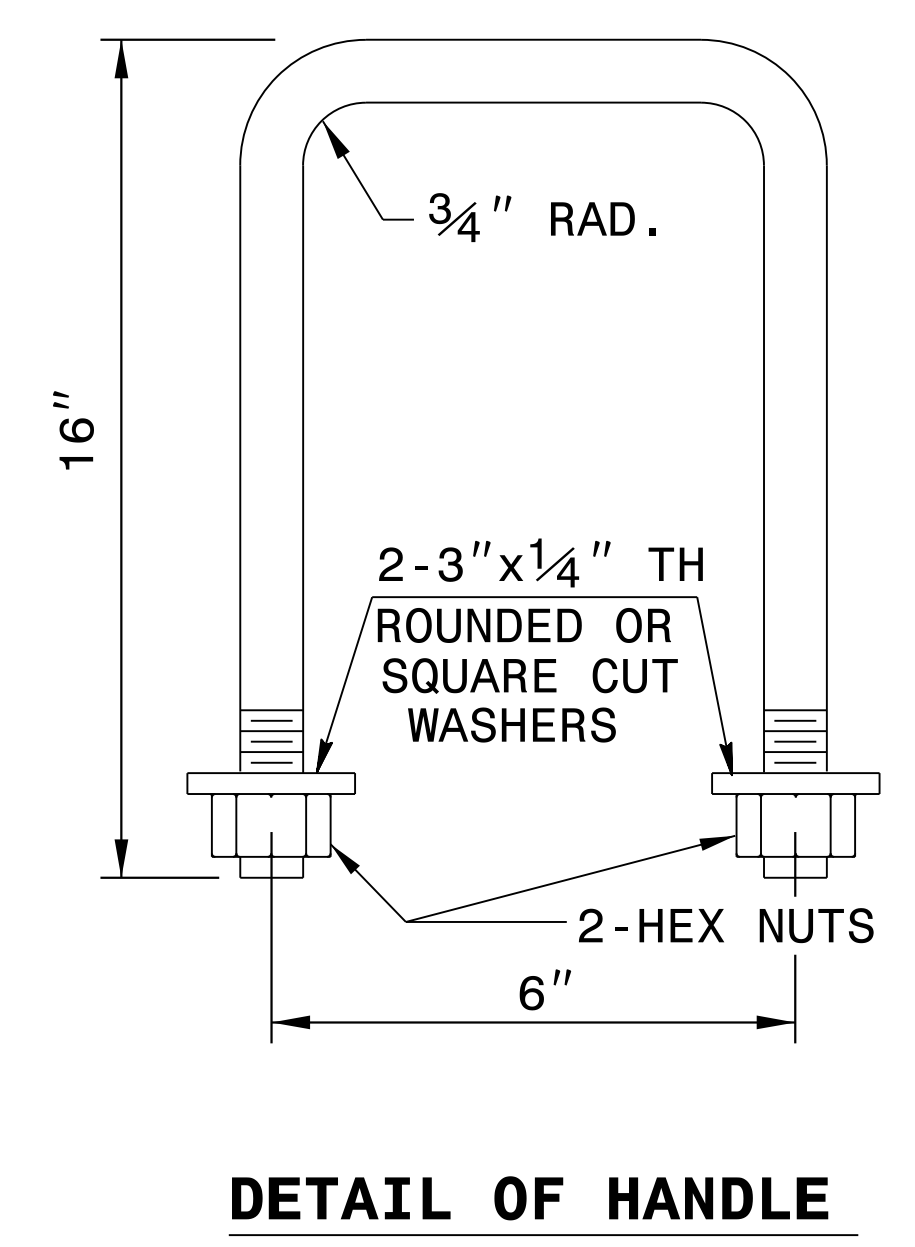
REVISIONS

8/17/99
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GENERAL NOTES:
 CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.
 FIELD VERIFY THE DIMENSIONS FOR THE EXISTING BOXES.

BILL OF MATERIALS			
MASONRY			
TOP SLAB CONCRETE CLASS "A"		.037YDS ³	PER FT ²
BRICK MASONRY		.025YDS ³	PER FT ²
REINFORCING STEEL		7.64LBS	PER FT ²
MANHOLE OPTION QUANTITIES			
SIZE	QTY.	LENGTH	REINF. STEEL LBS.
#5 DIAG.	8	1'-1"	9.04



NOTE:
 CONCRETE AND REINFORCING STEEL QUANTITIES BASED ON SQUARE FOOT AREA OF THE PROPOSED TOP SLAB FOR THE EXISTING DRAINAGE STRUCTURE.
 BRICK MASONRY QUANTITY IS BASED ON THE TOTAL SQUARE FOOTAGE OF EXTERIOR WALL SURFACE AREA TO BE CONSTRUCTED.

ALIGN PROPOSED BRICK VERTICAL ADJUSTMENT TO INNER FACE OF WALL



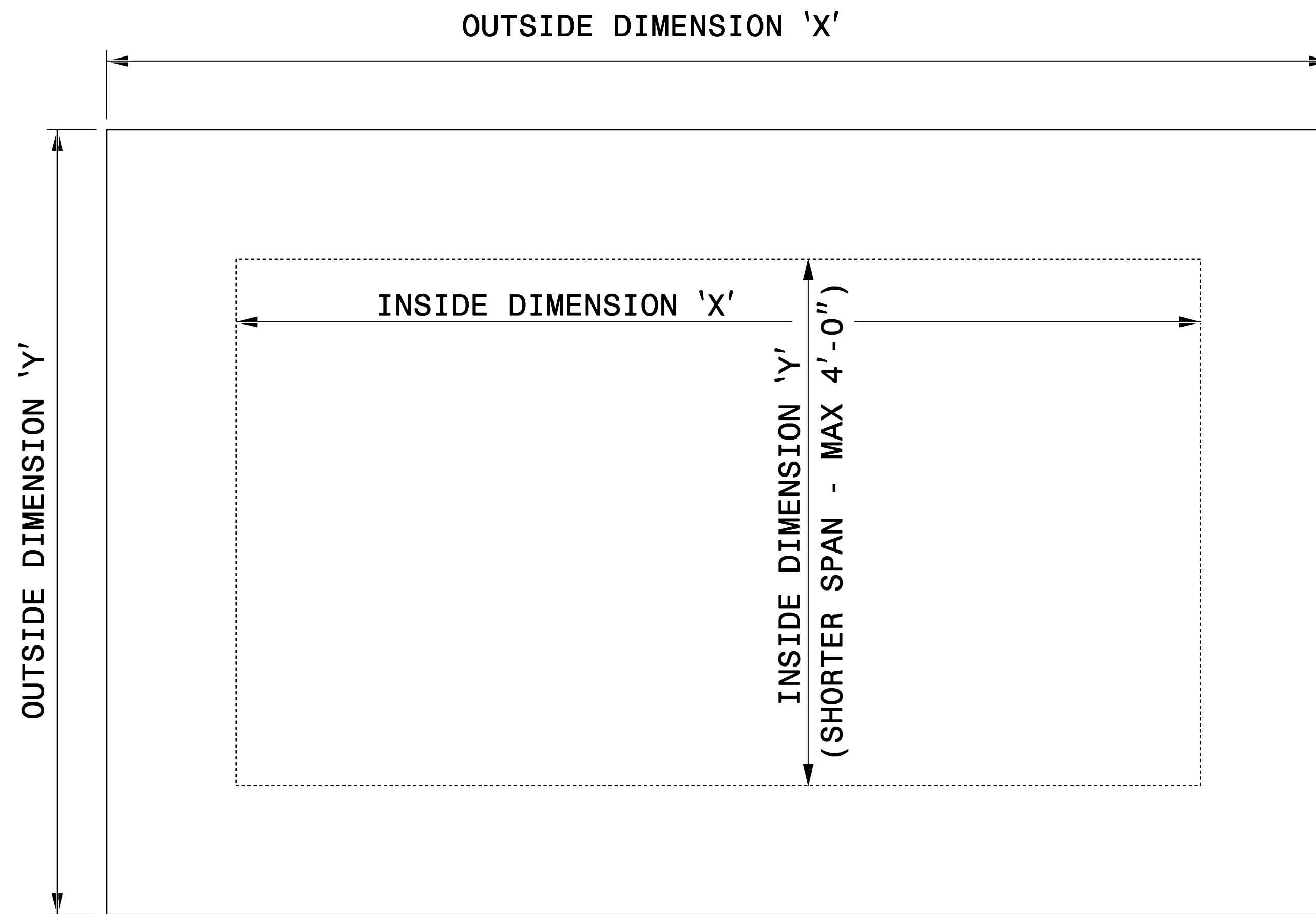
DocuSigned by:
 Nicole M. Hecker
 588423D34164C5

CONTRACT STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119
DETAIL TO CONVERT EXISTING TRAFFIC BEARING DROP INLET OR CATCH BASIN TO TRAFFIC BEARING JUNCTION BOX (MANHOLE OPTIONAL)

ORIGINAL BY: T.S.S. DATE: FEB. 2000
 MODIFIED BY: E.E.W. DATE: NOV. 2001
 CHECKED BY: DATE:
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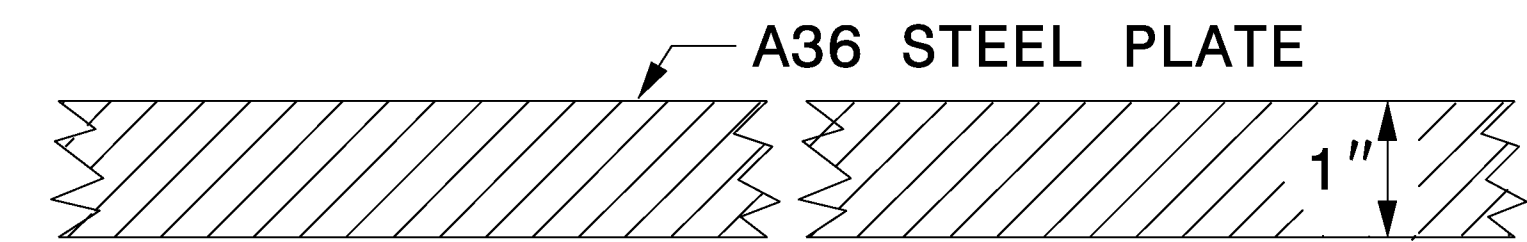
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 UNLESS ALL SIGNATURES COMPLETED

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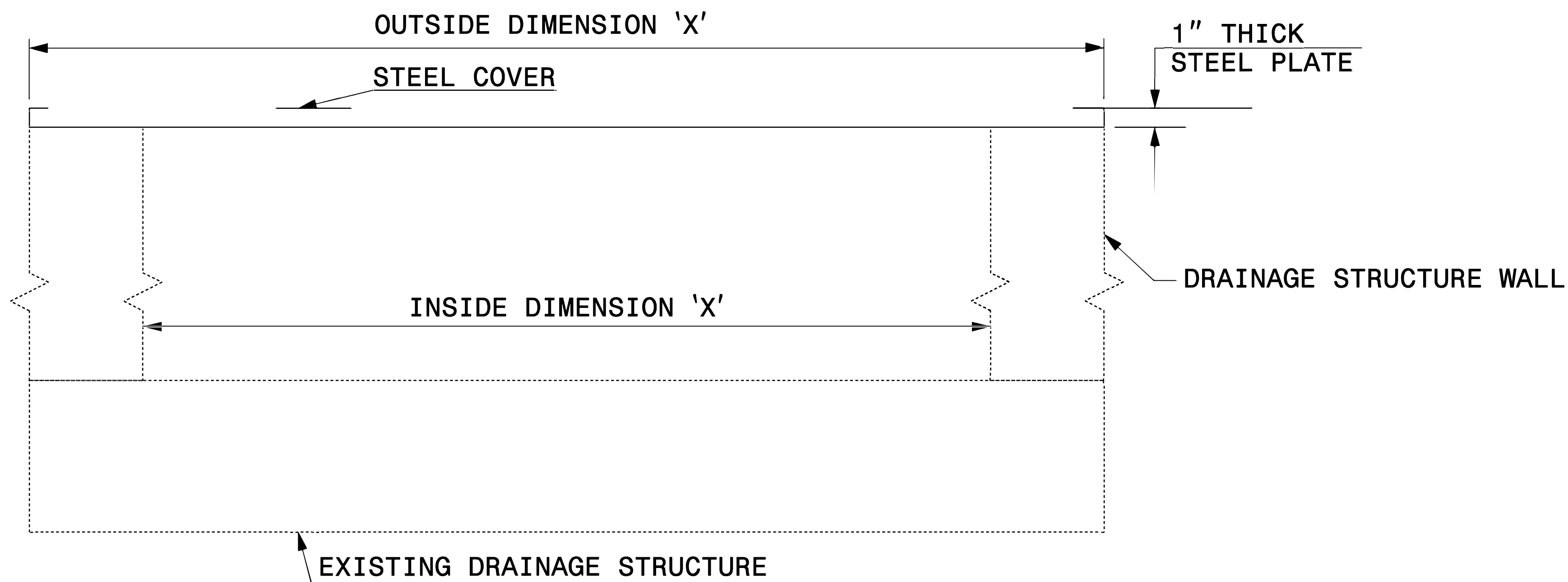
GENERAL NOTES:

- 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. Hecker
5884252034164625

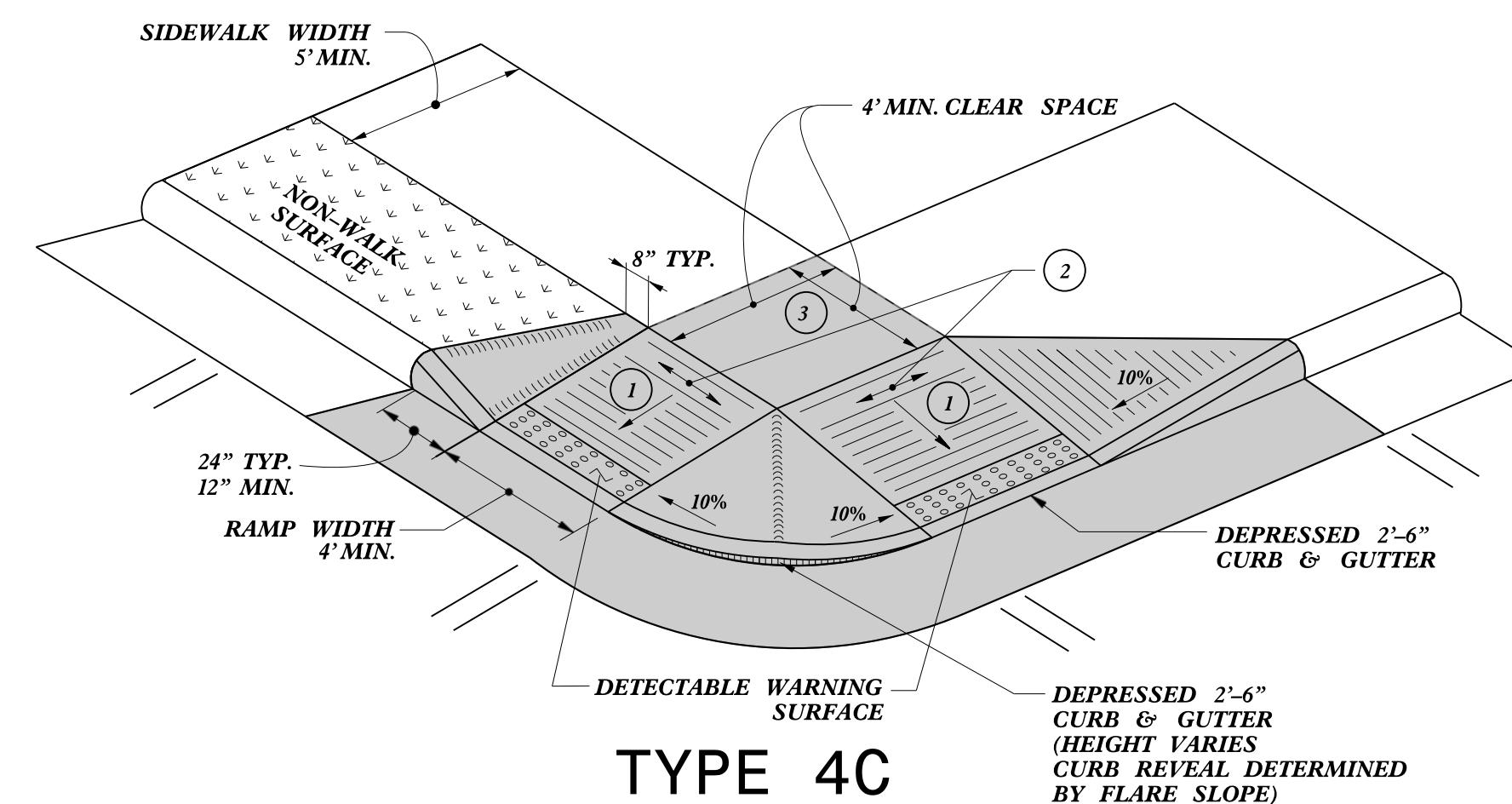
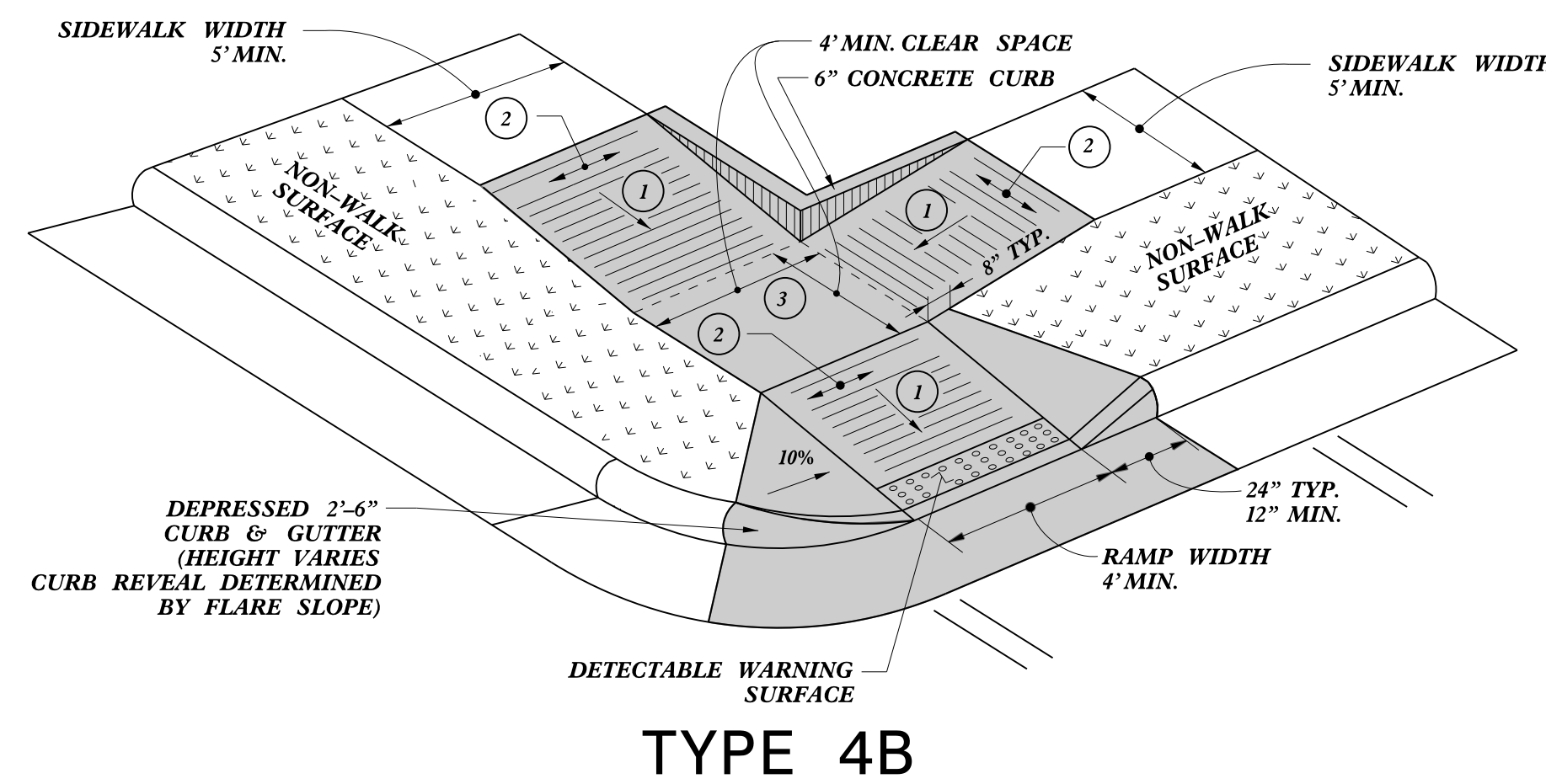
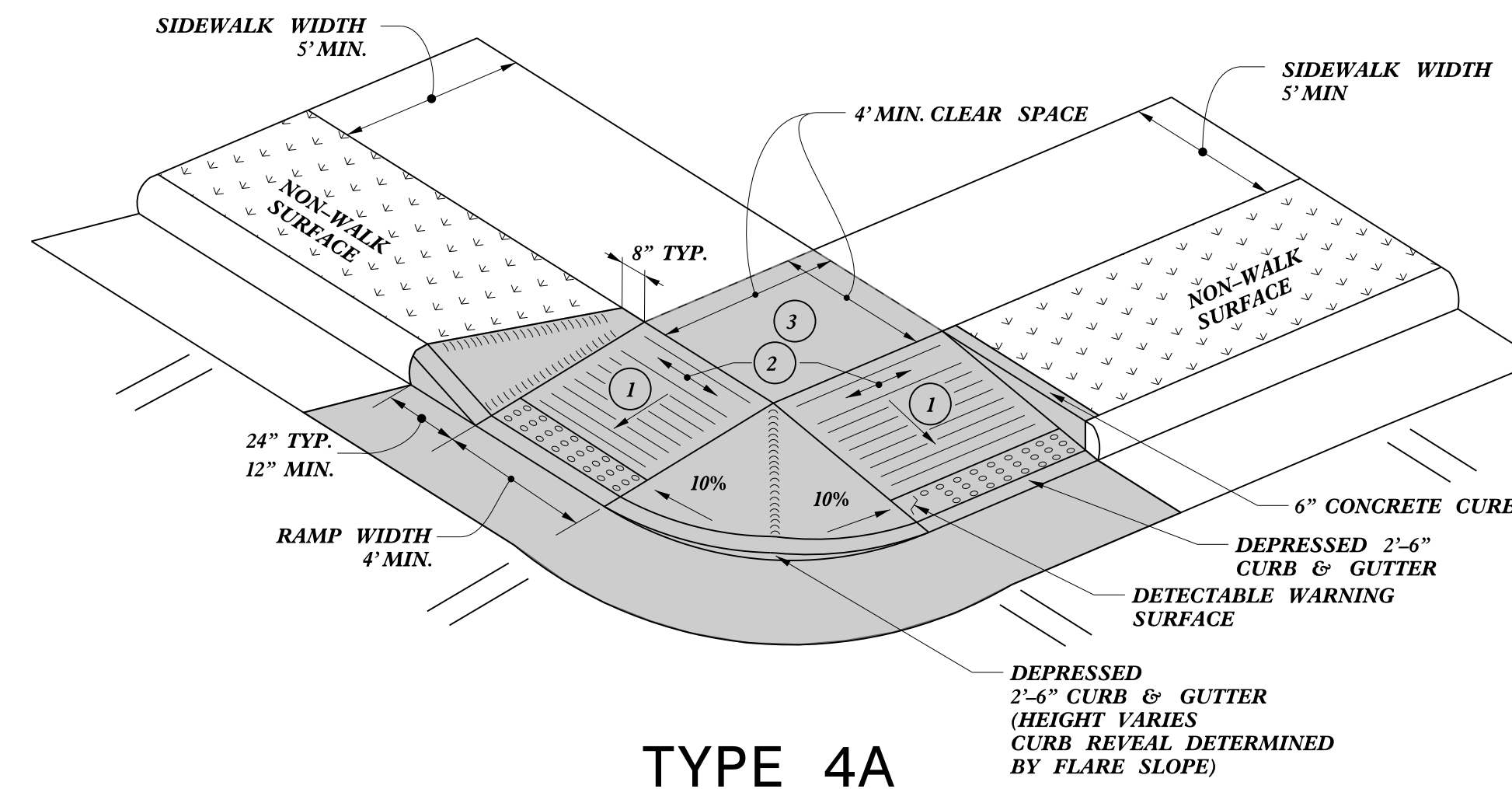
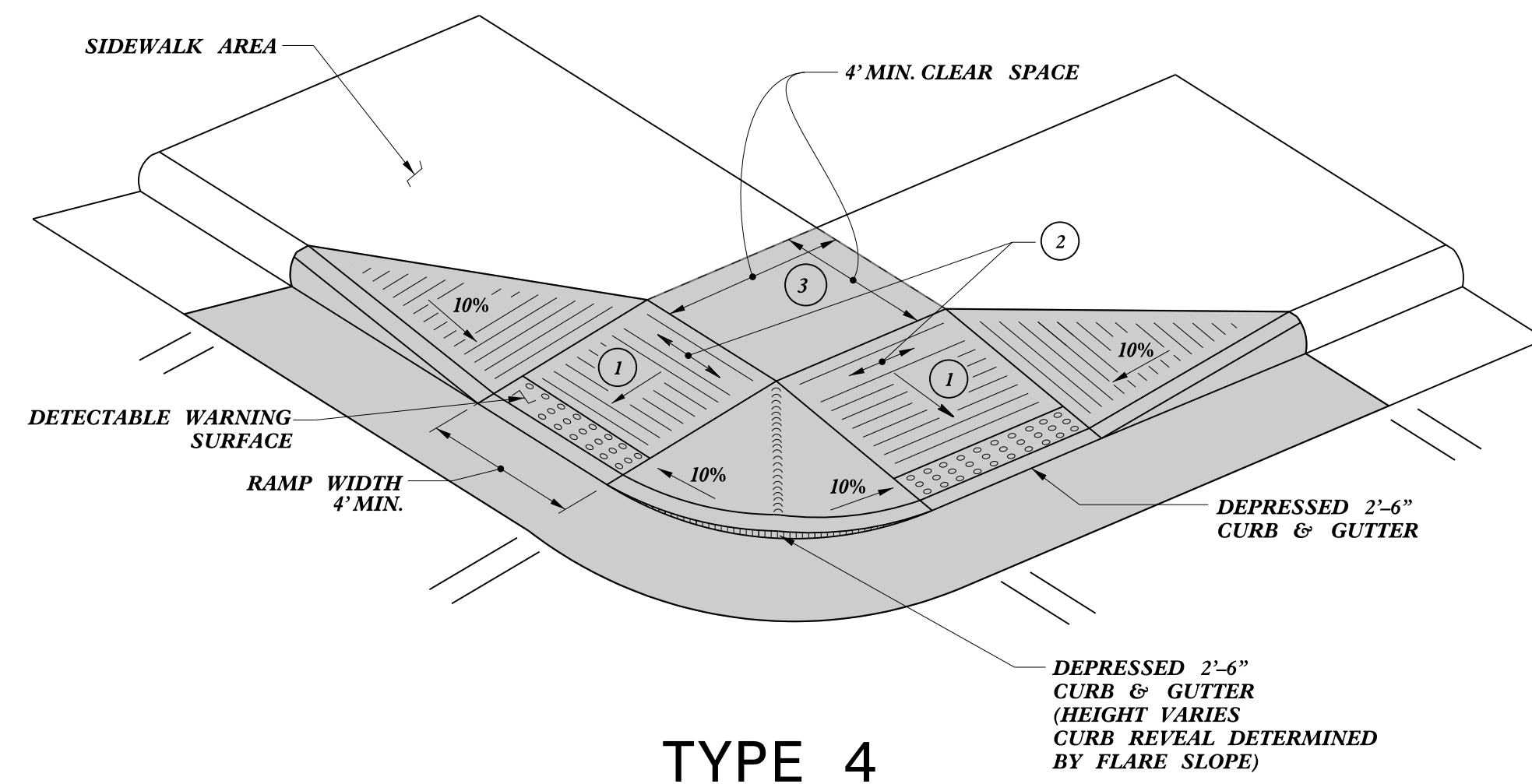
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

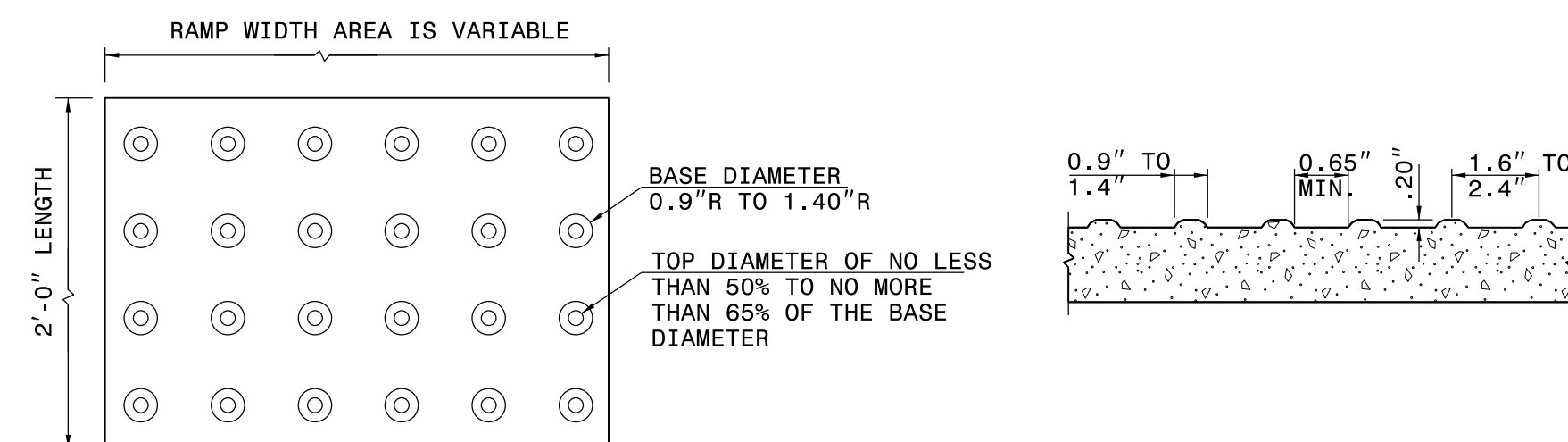
**DETAIL OF TEMPORARY
1" STEEL COVER
OVER DRAINAGE STRUCTURE**

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

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NOTES:
 DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PAY LIMITS FOR 1 OR 2 CURB RAMPS
 (CALCULATE BASED ON NUMBER OF SETS OF DETECTABLE WARNING SURFACES)

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

ROADWAY DETAIL DRAWING FOR
CURB RAMP
 SHARED LANDING



DocuSigned by:
 Nicole M. Hickler
 5884323034164C5...

SHEET 10 OF 13
848D06

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

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

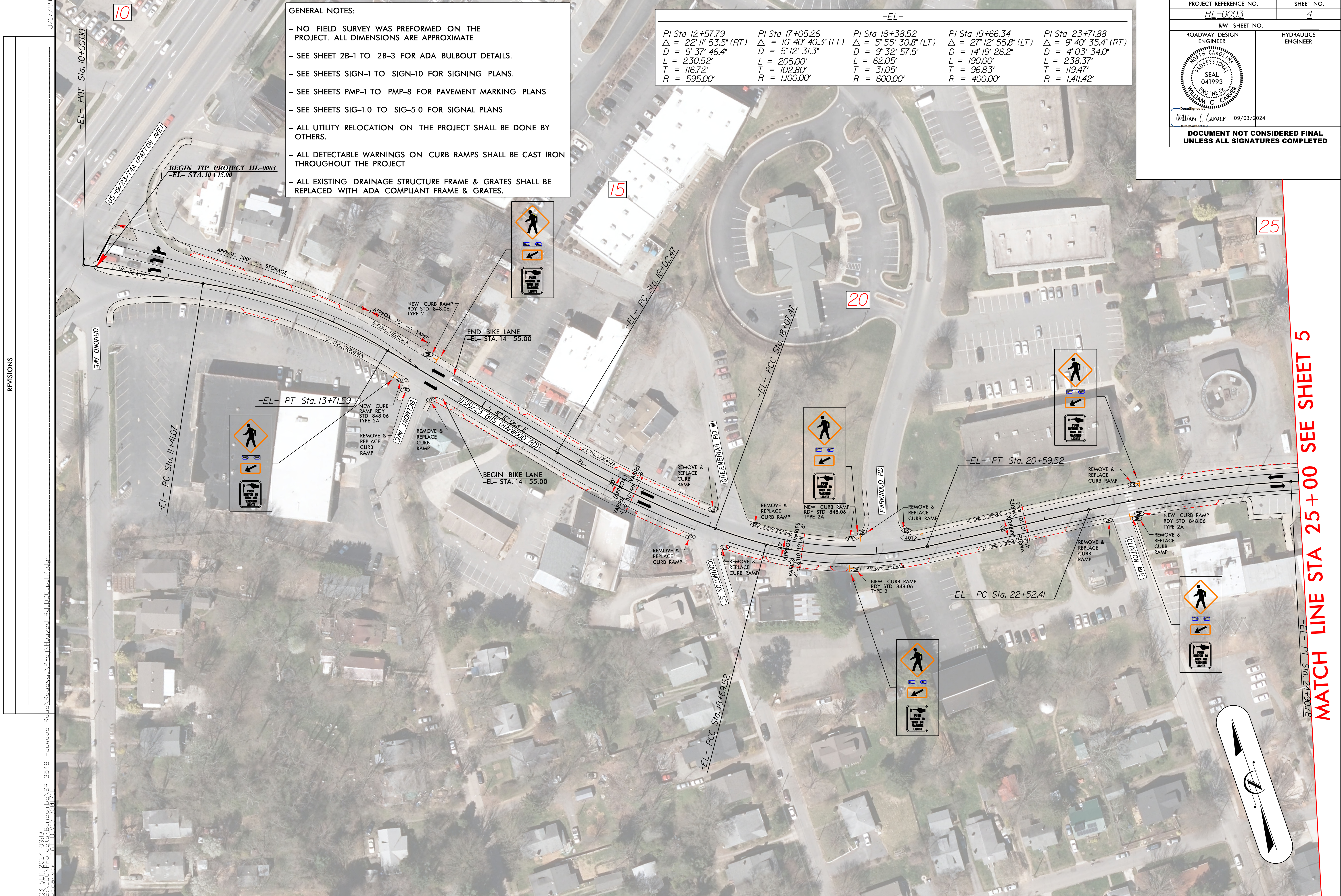
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ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
 MODIFIED BY: DATE:
 CHECKED BY: DATE:
 FILE SPEC.: special_details\nmhackler\848D0610.dgn

GENERAL NOTES:

- NO FIELD SURVEY WAS PERFORMED ON THE PROJECT. ALL DIMENSIONS ARE APPROXIMATE
- SEE SHEET 2B-1 TO 2B-3 FOR ADA BULBOUT DETAILS.
- SEE SHEETS SIGN-1 TO SIGN-10 FOR SIGNING PLANS.
- SEE SHEETS PMP-1 TO PMP-8 FOR PAVEMENT MARKING PLANS
- SEE SHEETS SIG-1.0 TO SIG-5.0 FOR SIGNAL PLANS.
- ALL UTILITY RELOCATION ON THE PROJECT SHALL BE DONE BY OTHERS.
- ALL DETECTABLE WARNINGS ON CURB RAMPS SHALL BE CAST IRON THROUGHOUT THE PROJECT
- ALL EXISTING DRAINAGE STRUCTURE FRAME & GRATES SHALL BE REPLACED WITH ADA COMPLIANT FRAME & GRATES.

-EL-				
PI Sta 12+57.79 Δ = 22° 11' 53.5" (RT) D = 9' 37' 46.4" L = 230.52' T = 116.72' R = 595.00'	PI Sta 17+05.26 Δ = 10° 40' 40.3" (LT) D = 5' 12' 31.3" L = 205.00' T = 102.80' R = 1,000.00'	PI Sta 18+38.52 Δ = 5' 55' 30.8" (LT) D = 9' 32' 57.5" L = 62.05' T = 31.05' R = 600.00'	PI Sta 19+66.34 Δ = 27° 12' 55.8" (LT) D = 14' 19' 26.2" L = 190.00' T = 96.83' R = 400.00'	PI Sta 23+71.88 Δ = 9° 40' 35.4" (RT) D = 4' 03' 34.0" L = 238.37' T = 119.47' R = 1,411.42'



MATCH LINE STA 25 + 00 SEE SHEET 5

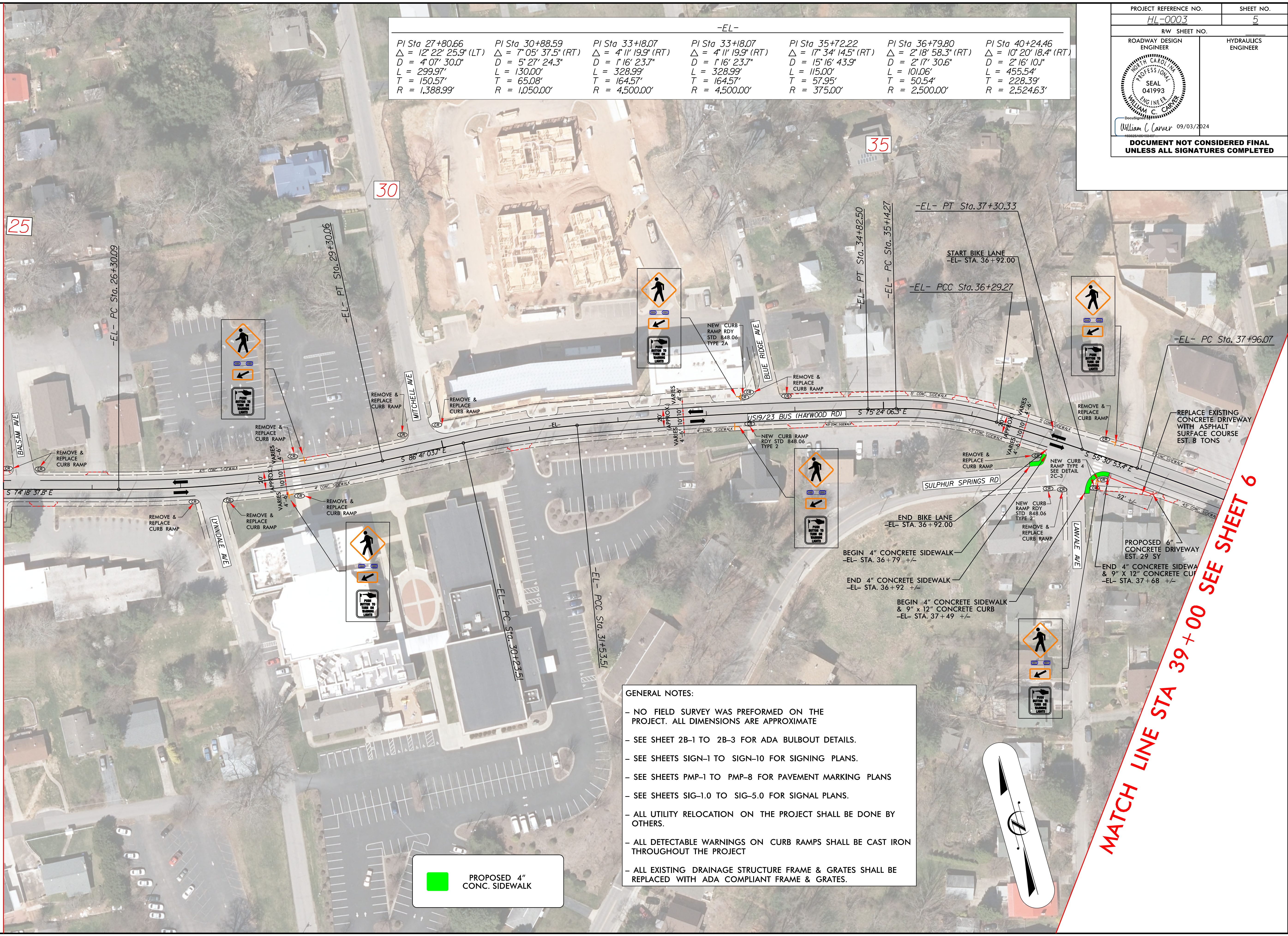
REVISIONS

8/17/99
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-EL-						
PI Sta 27+80.66 Δ = 12' 22" 25.9" (LT) D = 4' 07" 30.0" L = 299.97' T = 150.57' R = 1,388.99'	PI Sta 30+88.59 Δ = 7' 05" 37.5" (RT) D = 5' 27" 24.3" L = 130.00' T = 65.08' R = 1,050.00'	PI Sta 33+18.07 Δ = 4' 11" 19.9" (RT) D = 1' 16" 23.7" L = 328.99' T = 164.57' R = 4,500.00'	PI Sta 33+18.07 Δ = 4' 11" 19.9" (RT) D = 1' 16" 23.7" L = 328.99' T = 164.57' R = 4,500.00'	PI Sta 35+72.22 Δ = 17' 34" 14.5" (RT) D = 15' 16" 43.9" L = 115.00' T = 57.95' R = 375.00'	PI Sta 36+79.80 Δ = 2' 18" 58.3" (RT) D = 2' 17" 30.6" L = 101.06' T = 50.54' R = 2,500.00'	PI Sta 40+24.46 Δ = 10' 20" 18.4" (RT) D = 2' 16" 10.1" L = 455.54' T = 228.39' R = 2,524.63'

MATCH LINE STA 25+00 SEE SHEET 4

MATCH LINE STA 39+00 SEE SHEET 6



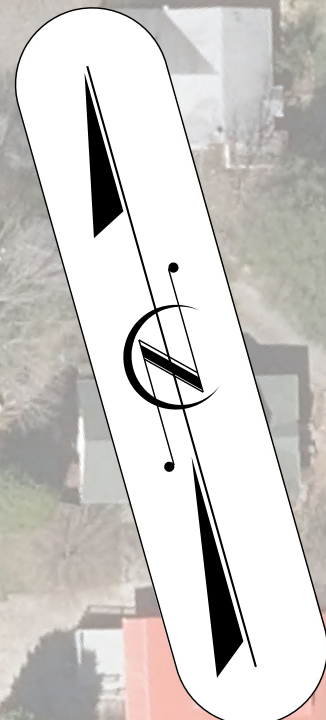
REVISIONS

8/17/99
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William C. Carver

PROPOSED 4" CONC. SIDEWALK

GENERAL NOTES:

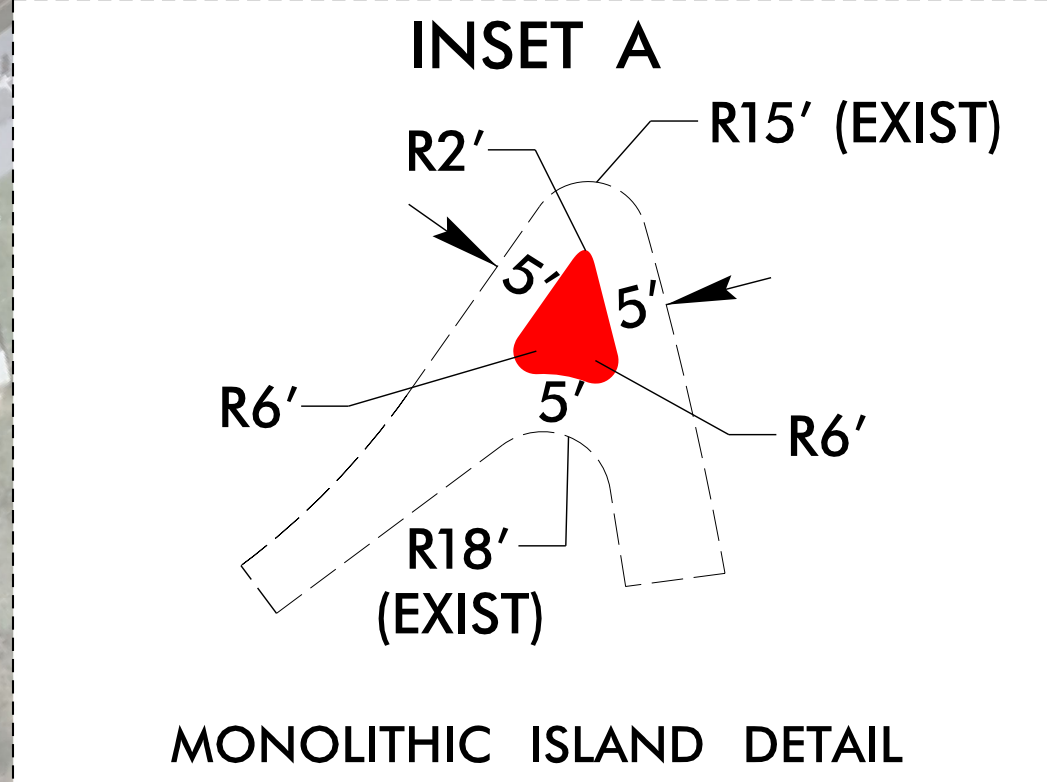
- NO FIELD SURVEY WAS PERFORMED ON THE PROJECT. ALL DIMENSIONS ARE APPROXIMATE
- SEE SHEET 2B-1 TO 2B-3 FOR ADA BULBOUT DETAILS.
- SEE SHEETS SIGN-1 TO SIGN-10 FOR SIGNING PLANS.
- SEE SHEETS PMP-1 TO PMP-8 FOR PAVEMENT MARKING PLANS
- SEE SHEETS SIG-1.0 TO SIG-5.0 FOR SIGNAL PLANS.
- ALL UTILITY RELOCATION ON THE PROJECT SHALL BE DONE BY OTHERS.
- ALL DETECTABLE WARNINGS ON CURB RAMPS SHALL BE CAST IRON THROUGHOUT THE PROJECT
- ALL EXISTING DRAINAGE STRUCTURE FRAME & GRATES SHALL BE REPLACED WITH ADA COMPLIANT FRAME & GRATES.



PROJECT REFERENCE NO.	SHEET NO.
HL-0003	6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
William C. Carver 09/03/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

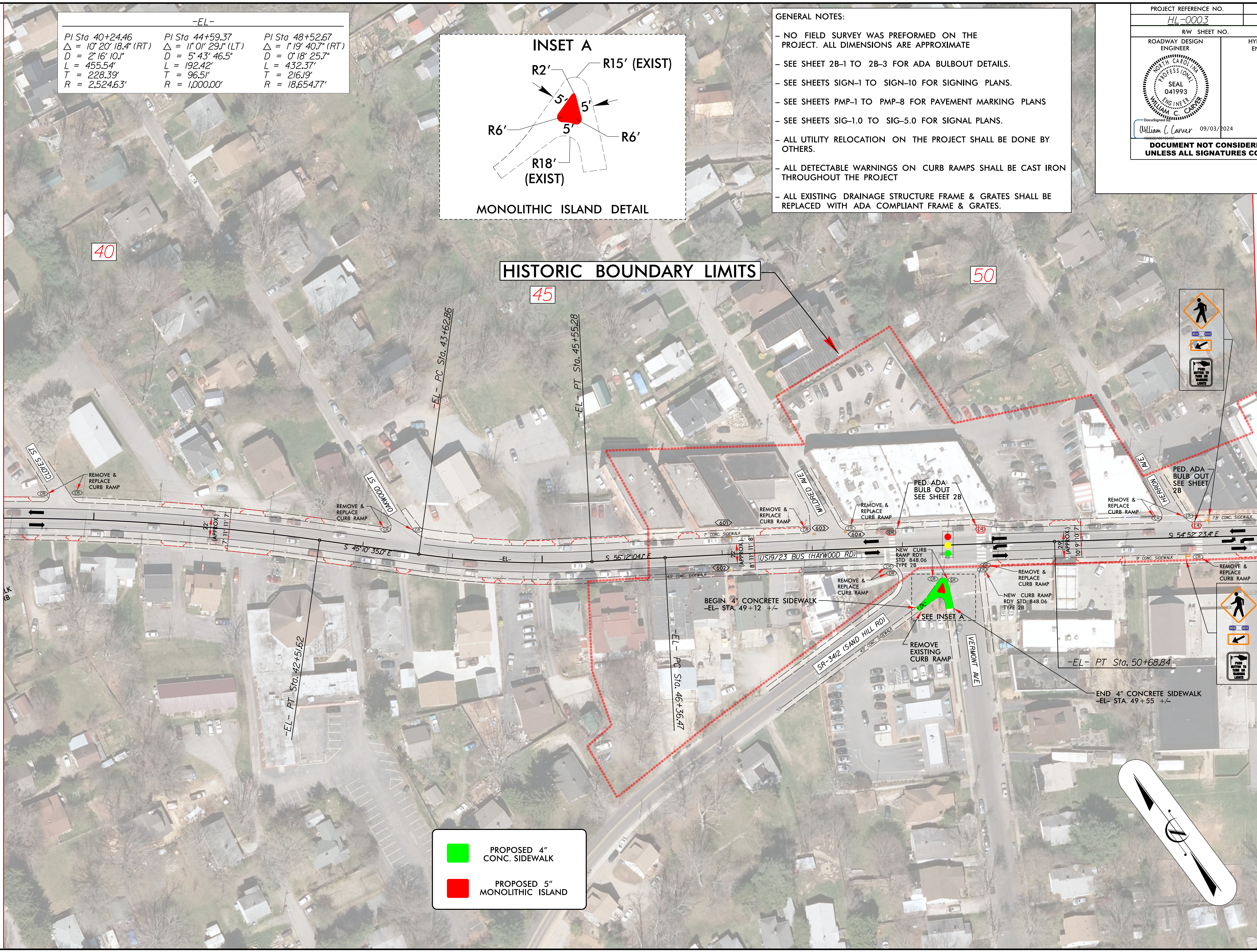
- GENERAL NOTES:**
- NO FIELD SURVEY WAS PERFORMED ON THE PROJECT. ALL DIMENSIONS ARE APPROXIMATE
 - SEE SHEET 2B-1 TO 2B-3 FOR ADA BULBOUT DETAILS.
 - SEE SHEETS SIGN-1 TO SIGN-10 FOR SIGNING PLANS.
 - SEE SHEETS PMP-1 TO PMP-8 FOR PAVEMENT MARKING PLANS
 - SEE SHEETS SIG-1.0 TO SIG-5.0 FOR SIGNAL PLANS.
 - ALL UTILITY RELOCATION ON THE PROJECT SHALL BE DONE BY OTHERS.
 - ALL DETECTABLE WARNINGS ON CURB RAMPS SHALL BE CAST IRON THROUGHOUT THE PROJECT
 - ALL EXISTING DRAINAGE STRUCTURE FRAME & GRATES SHALL BE REPLACED WITH ADA COMPLIANT FRAME & GRATES.

-EL-		
PI Sta 40+24.46	PI Sta 44+59.37	PI Sta 48+52.67
$\Delta = 10^{\circ} 20' 18.4" (RT)$	$\Delta = 11^{\circ} 01' 29.1" (LT)$	$\Delta = 1^{\circ} 19' 40.7" (RT)$
D = 2' 16" 10.1"	D = 5' 43" 46.5"	D = 0' 18" 25.7"
L = 455.54'	L = 192.42'	L = 432.37'
T = 228.39'	T = 96.51'	T = 216.19'
R = 2,524.63'	R = 1,000.00'	R = 18,654.77'

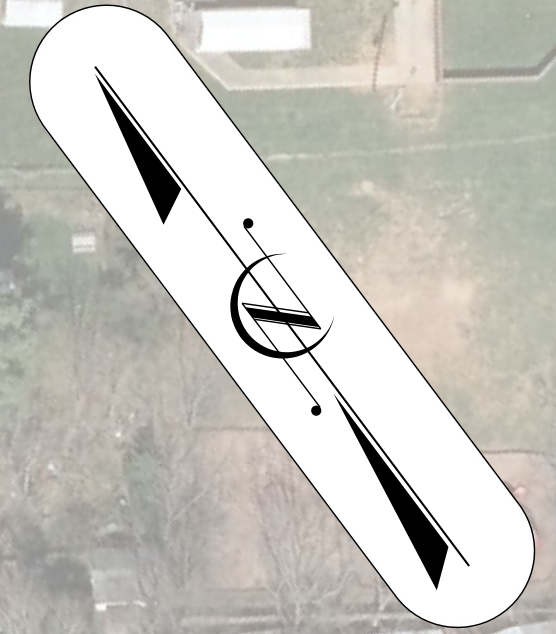


MATCH LINE STA 39+00 SEE SHEET 5

MATCH LINE STA 53+00 SEE SHEET 7



	PROPOSED 4" CONC. SIDEWALK
	PROPOSED 5" MONOLITHIC ISLAND



REVISIONS
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 WCCarver