

PROJECT ID:

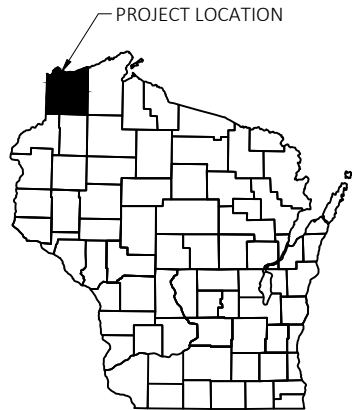
COUNTY:

DOUGLAS

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =



CITY OF SUPERIOR PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

CITY OF SUPERIOR, HAMMOND AVENUE

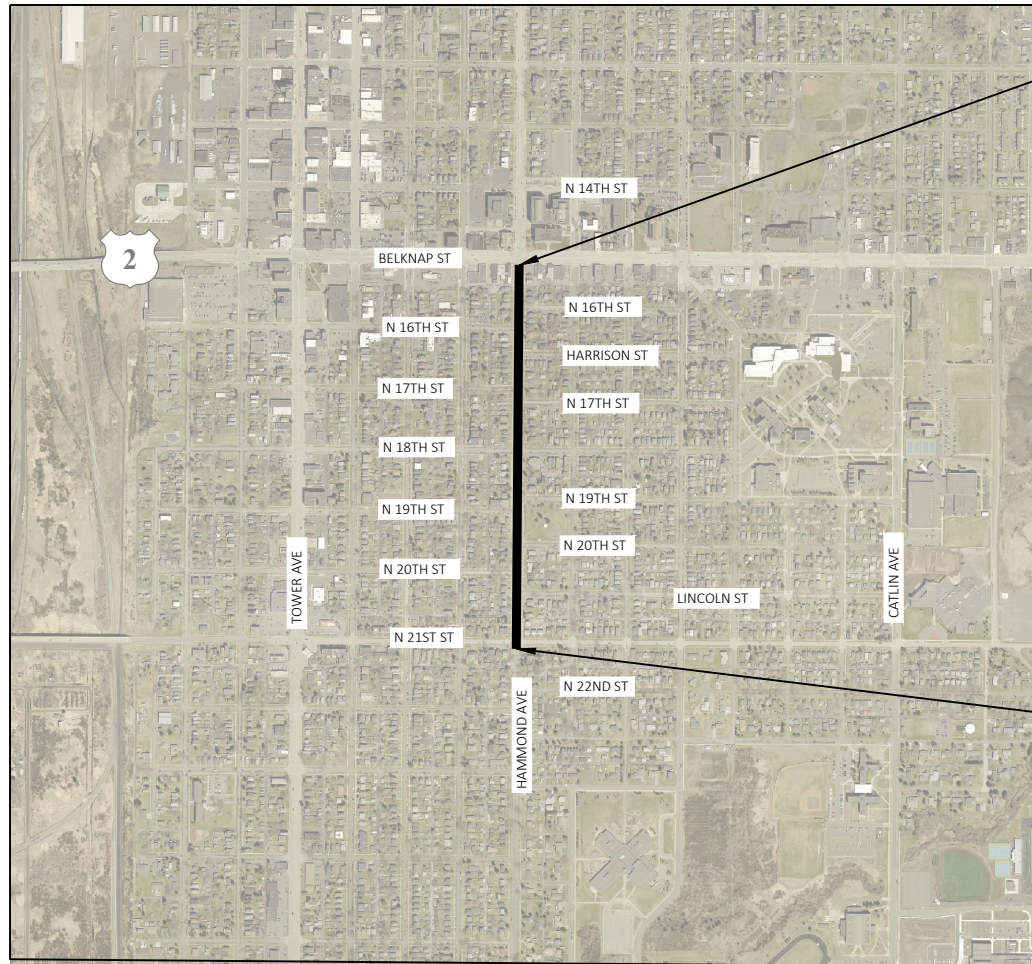
N 21ST STREET - BELKNAP STREET
HAMMOND AVENUE
DOUGLAS COUNTY

DESIGN DESIGNATION

A.A.D.T.	2023	=	5740
A.A.D.T.	2043	=	10,370
D.H.V.		=	861
D.D.		=	50/50
T.		=	2.0%
DESIGN SPEED		=	30 MPH
ESALS		=	299,300

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE



LAYOUT
SCALE 0 0.25 MI
TOTAL NET LENGTH OF CENTERLINE = 0.466 MI

END CONSTRUCTION
STA 152+43.79'NB'
MATCH EXISTING
SAWCUT REQ'D

BEGIN CONSTRUCTION
STA 125+50.00'NB'
Y = 302704.553
X = 148522.010
MATCH EXISTING
SAWCUT REQ'D

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DOUGLAS COUNTY, NAD83 (YEAR), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

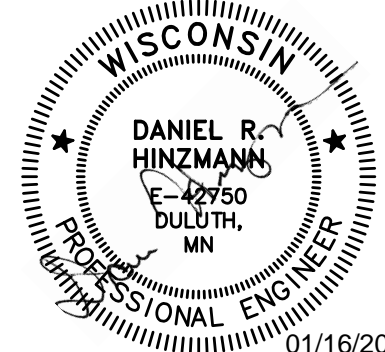
ELEVATIONS ARE REFERENCED TO NAVD 88 (YEAR). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ACCEPTED FOR
DOUGLAS COUNTY
CITY OF SUPERIOR

Date _____
(Signature and Title of Official)



01/16/2024



01/16/2024

FOR SANITARY/WATERMAIN PLAN SHEETS



Plans Prepared by

Short Elliott Hendrickson Inc.
10 North Bridge Street
Chippewa Falls, WI 54729
715.720.6200 | Main
www.sehinc.com

E

STANDARD ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and another Abbreviation. Includes entries like ABUT (ABUTMENT), AC (ACRE), AGG (AGGREGATE), etc.

ORDER OF SHEETS - SECTION 2:

- GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
LANDSCAPING PLAN
EROSION CONTROL
STORM SEWER
SANITARY SEWER
WATER MAIN
PERMANENT SIGNING
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT DETAILS

DESIGN CONTACT:

SEH
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CHIPPEWA FALLS WI 54729
TELEPHONE: 715.720.6261
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EMAIL: JSTARREN@SEHINC.COM

DNR CONTACT:

STATE OF WISCONSIN
NORTHWEST DISTRICT
2501 GOLF COURSE ROAD
ASHLAND, WI 54806
TELEPHONE: 715.928.0485
ATTENTION: MATHEW JACOBSON
EMAIL: MATTHEW.JACOBSON@WISCONSIN.GOV

UTILITY CONTACT LIST:

ASTREA F/K/A PACKERLAND BROADBAND -
COMMUNICATION LINE
105 KENT STREET
PO BOX 190
IRON MOUNTAIN MI 49801
TELEPHONE: 906.282.6434
ATTENTION: RUSSELL KENNY
EMAIL: RUSSELL.KENNY@ASTREACONNECT.COM

ASTREA F/K/A PACKERLAND - FIBER OPTIC
105 KENT STREET
PO BOX 190
IRON MOUNTAIN MI 49801
TELEPHONE: 906.776.2609
ATTENTION: ANDY HEIGL
EMAIL: ANDY.HEIGL@ASTREACONNECT.COM

LUMEN (AKA-CENTURYLINK)
2426 75TH. AVE
OSCEOLA, WI 54020
TELEPHONE: 715.392.0048
ATTENTION: MICHAEL VANDEN BOS
EMAIL: MIKE.VANDENBOS@LUMEN.COM

SPECTRUM F/K/A CHARTER COMMUNICATIONS -
COMMUNICATION LINE
640 GARFIELD AVENUE
DULUTH MN 55802
TELEPHONE: 218.529.8042
TELEPHONE SECONDARY: 218.260.6984
ATTENTION: CHAD LAWRENCE
EMAIL: CHAD.LAWRENCE@CHARTER.COM

SUPERIOR WATER, LIGHT & POWER CO.
2915 HILL AVENUE
P.O. BOX 519
SUPERIOR WISCONSIN 54880
TELEPHONE: 715.395.6315

GAS/PETROLEUM & ELECTRIC & WATER & GAS
218.393.6391
ATTENTION: JAMISON MEHLE
EMAIL: JMEHLE@SWLP.COM

DESIGN CONTACT:

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1316 N 14TH STREET
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TELEPHONE: 715.395.7334
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1316 N 14TH STREET
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ATTENTION: DAN SHEA
EMAIL: SHEAD@CI.SUPERIOR.WI.US

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EMAIL: ABRASONE@CI.SUPERIOR.WI.US

ENTRUST SOLUTIONS GROUP - FIBER OPTIC
SHAWN MORRIS
999 18th/ Street | Suite 3000
DENVER, CO 80202
TELEPHONE: 785 317 5887
EMAIL: SMORRIS@ENTRUSTSOL.COM

NORVADO - FIBER OPTIC
43705 US HIGHWAY 63
CABLE, WI 54821
TELEPHONE: 715.798.7123
ATTENTION: GUY FOLSOM
EMAIL: GFOLSOM@NORVADO.COM

MERIT NETWORK INC - COMMUNICATION LINE
880 TECHNOLOGY DRIVE - SUITE B
ANN ARBOR MI 48108
TELEPHONE: 734.527.5698
TELEPHONE SECONDARY: 734.216.2769
ATTENTION: JAMIE LAROCCA
EMAIL: J.LAROCCA@MERIT.EDU

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU DIG IN WISCONSIN



Dial 811 or (800)242-8511

www.DiggersHotline.com

NOTE: WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3
WORK DAYS NOTICE BEFORE YOU EXCAVATE.

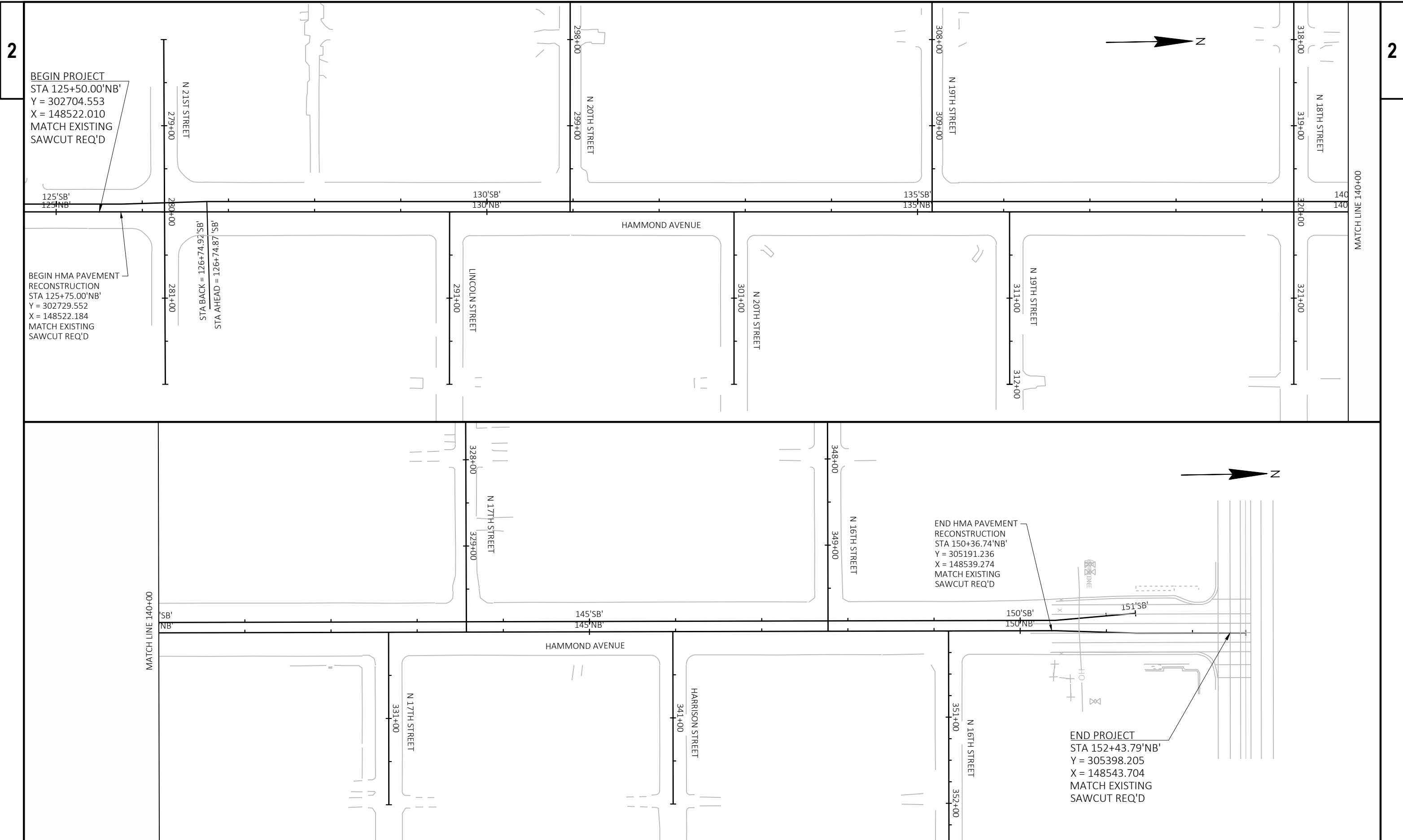
GENERAL NOTES:

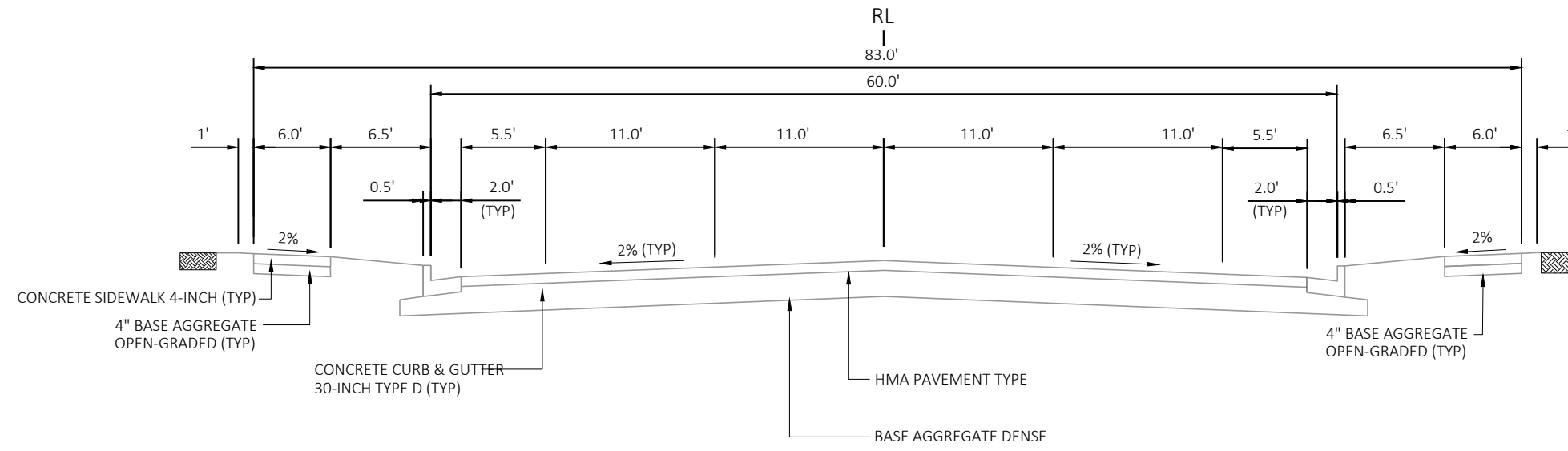
- 1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
3. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
4. PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS WITH THE ENGINEER.
5. CONCRETE COLLAR REQUIRED AT JOINTS BETWEEN EXISTING AND NEW STORM SEWER PIPE.
6. INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
7. WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.
8. BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.
9. CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH.
10. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
11. REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.
12. THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
13. ASPHALTIC AND CONCRETE SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
14. DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED AND SEEDED.
15. A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE.

RUNOFF COEFFICIENT TABLE

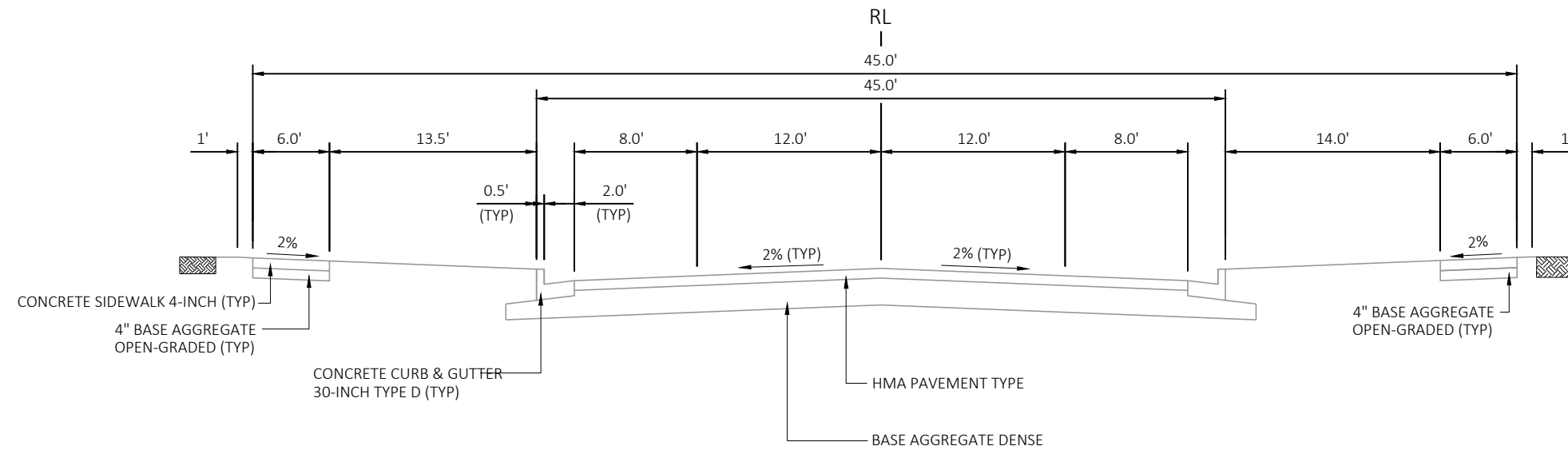
Table with columns for Hydrologic Soil Group (A, B, C, D) and Slope Range (Percent). Rows include Land Use, Row Crops, Median Strip-Turf, Side Slope-Turf, Pavement (Asphalt, Concrete, Brick, Drives/Walks, Roofs, Gravel Roads/Shoulders).

TOTAL PROJECT AREA = 6.84 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 7.19 ACRES

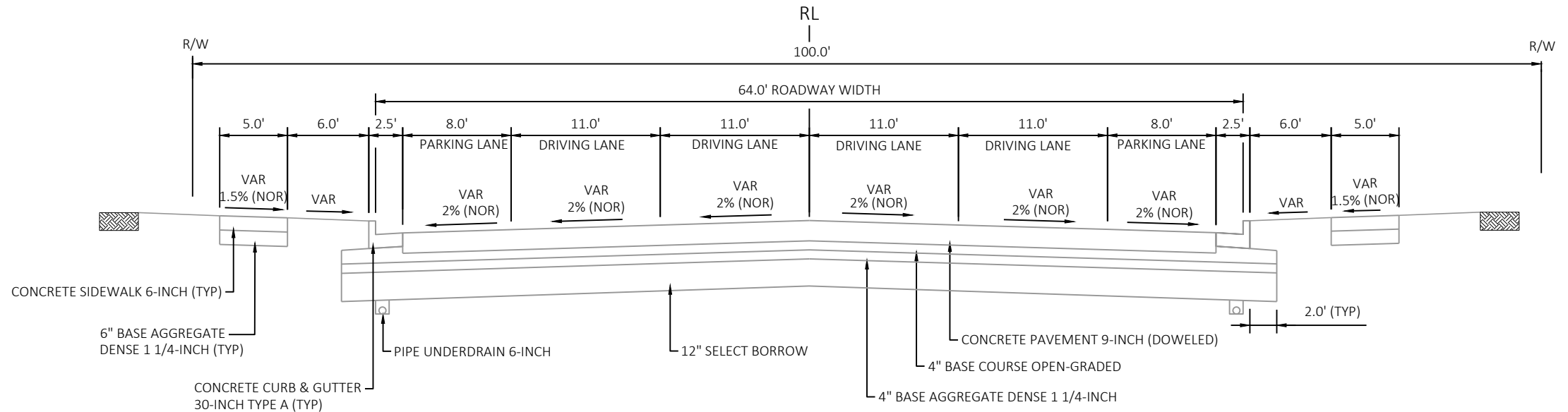




EXISTING TYPICAL SECTION
 HAMMOND AVENUE
 N 21ST STREET - BELKNAP STREET
 126+25.80 - 150+36.74



EXISTING TYPICAL SECTION
 HAMMOND AVENUE
 N 22ND STREET - N 21ST STREET
 125+50.00 - 126+25.80



EXISTING TYPICAL SECTION

HAMMOND AVENUE
N 16TH STREET - ALLEY
STA 150+36.74 - 150+50.00

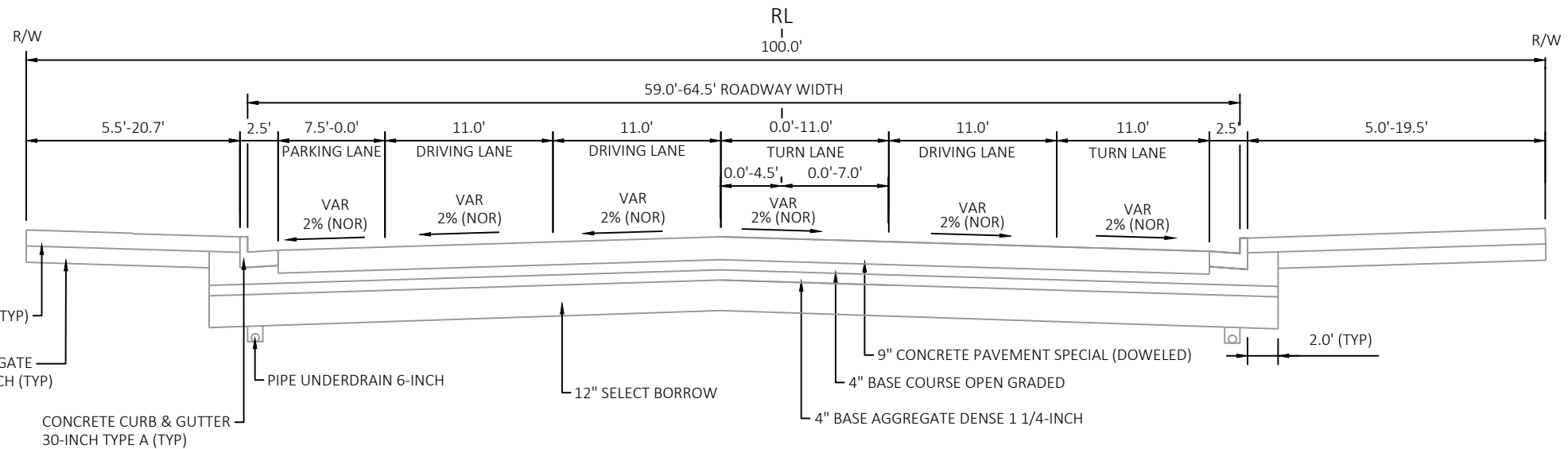
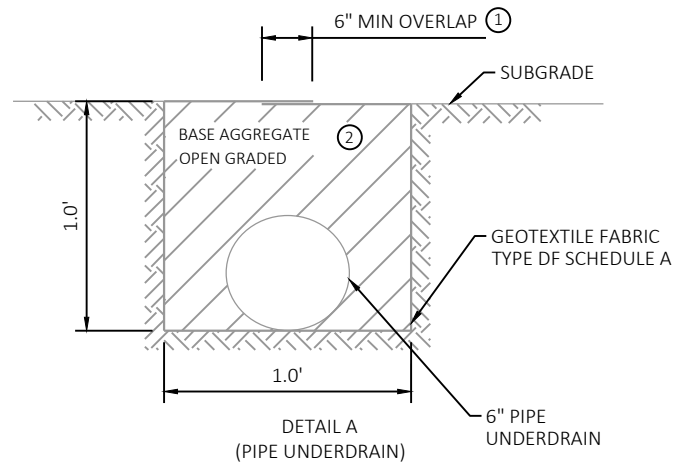
NOTES:

- ① FABRIC SHALL OVERLAP AT THE TOP OF SUBGRADE, 6-INCH MINIMUM OVERLAP.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

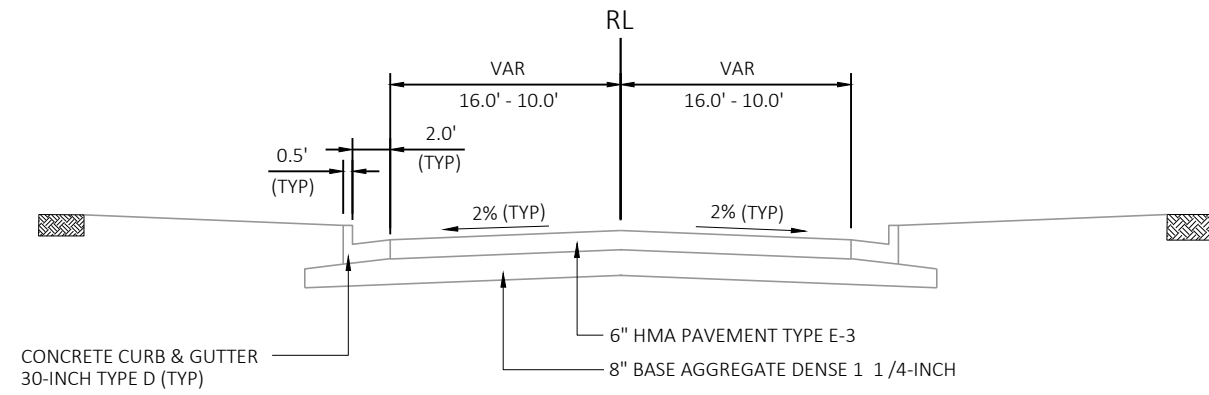
IF THERE IS A CONFLICT WITH THE STORM SEWER THE PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE STORM SEWER TOWARDS THE CENTER OF THE ROAD.
- ② PLACE UNDERDRAIN AFTER EXCAVATION OF SUBGRADE AND PRIOR TO THE PLACEMENT OF SELECT BORROW.

TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED, OR IN LIEU OF USE WELL GRADED COURSE AGGREGATE SIZE NO 1 OR 2 AS PER SUBSECTION 501.2.5.4.4 OF THE STANDARD SPECIFICATIONS.

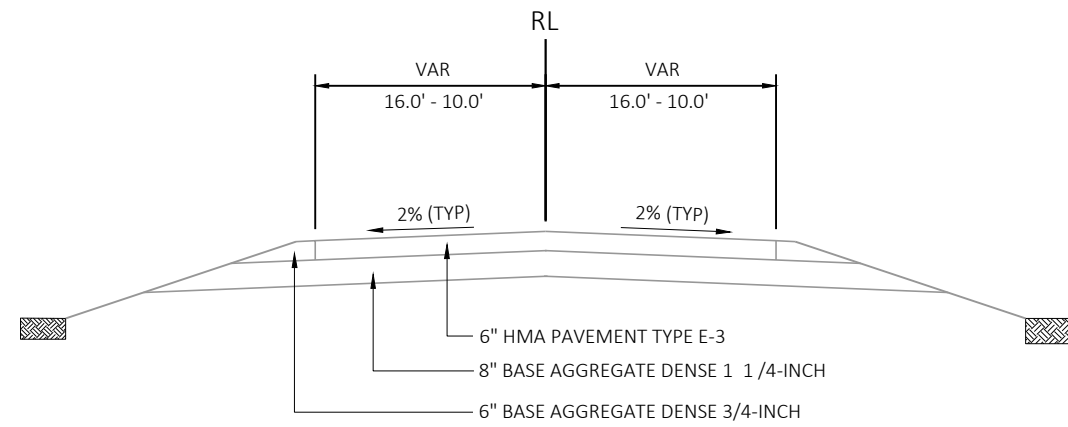


EXISTING TYPICAL SECTION

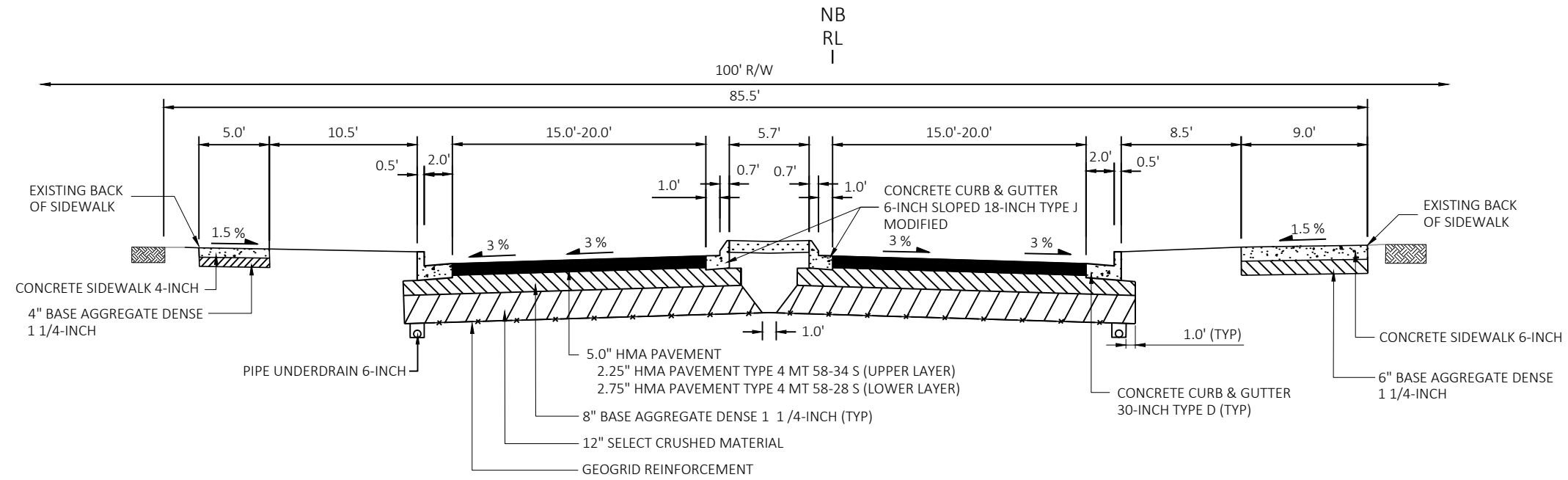
HAMMOND AVENUE
N 16TH STREET - BELKNAP STREET
STA 150+36.74 - 152+43.79



EXISTING TYPICAL SECTION
SIDE ROADS

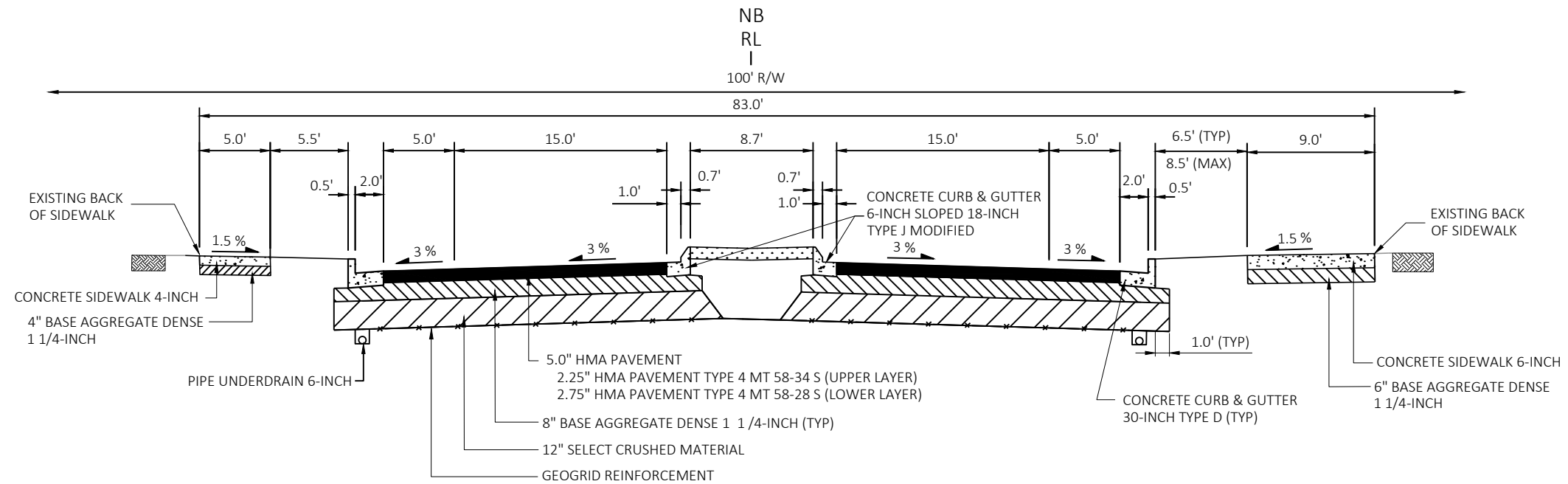


EXISTING TYPICAL SECTION
SIDE ROADS



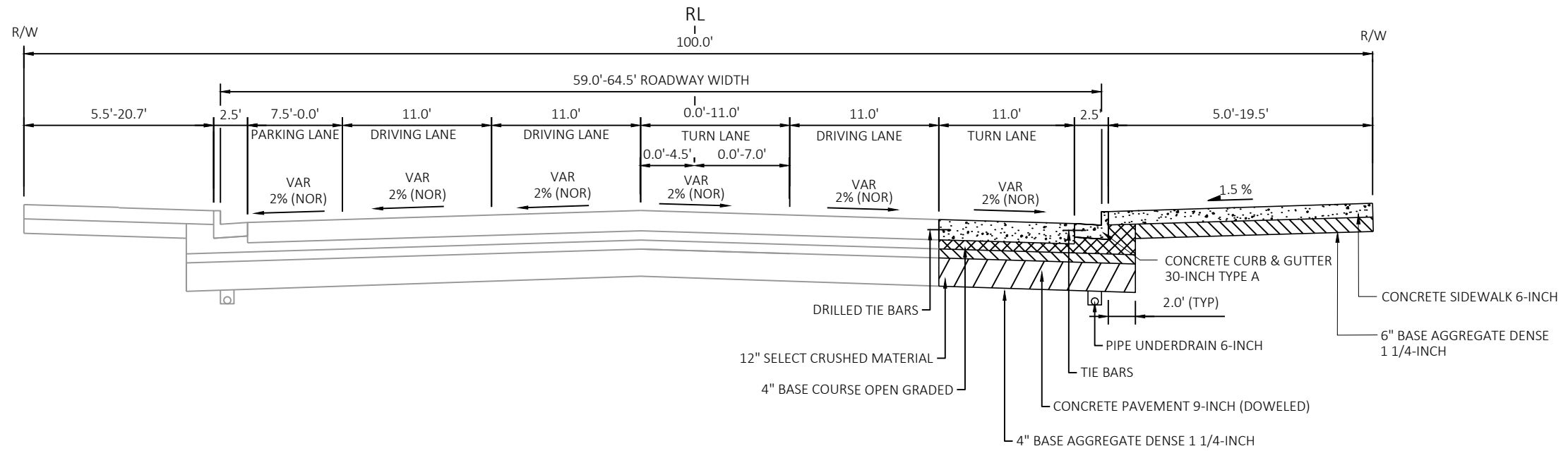
FINISHED TYPICAL SECTION

HAMMOND AVENUE
N 22ND STREET - N 21ST STREET
STA 125+50.00 - 126+25.80

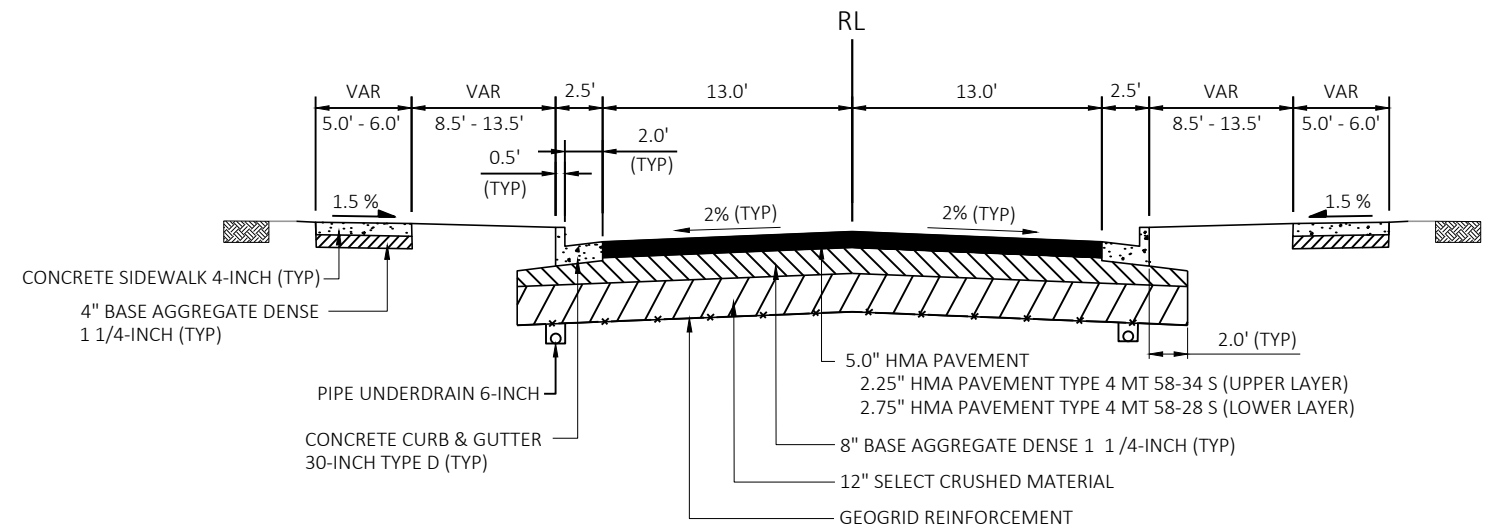


FINISHED TYPICAL SECTION

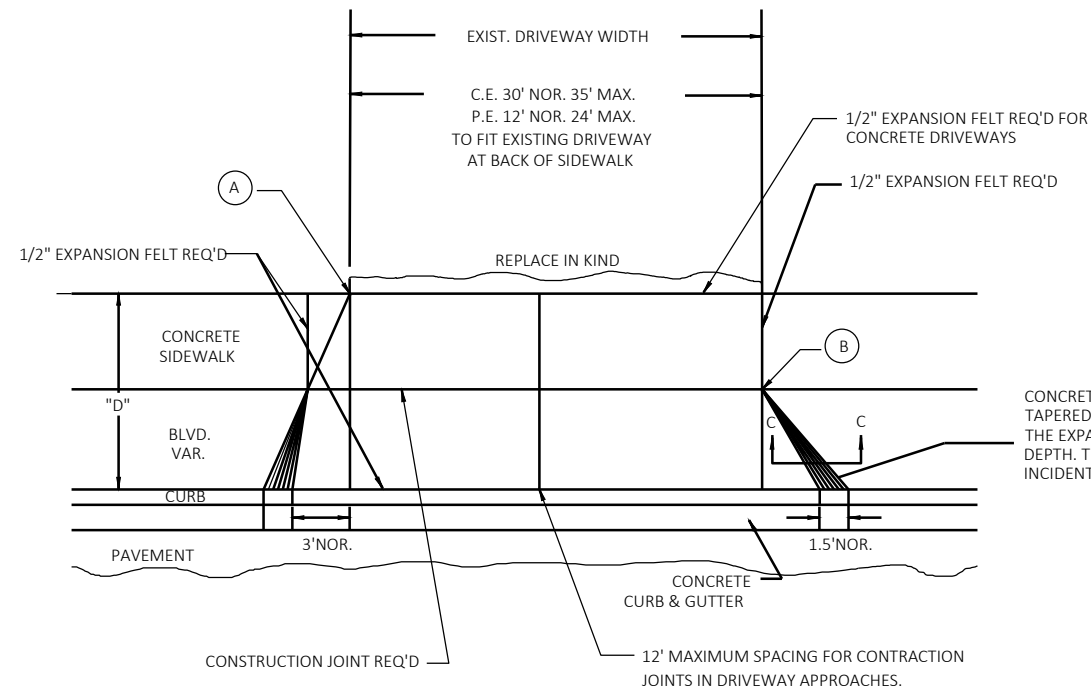
HAMMOND AVENUE
N 21 ST STREET - BELKNAP STREET
STA 126+25.80 - 150+36.74



FINISHED TYPICAL SECTION
 HAMMOND AVENUE
 N 16TH STREET - BELKNAP STREET
 STA150+36.74 - 152+43.79

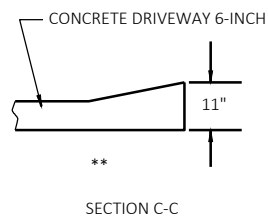


FINISHED TYPICAL SECTION
 N 21ST STREET
 LINCOLN STREET
 N 20TH STREET
 N 19TH STREET
 N 18TH STREET
 N 17TH STREET
 HARRISON STREET
 N 16TH STREET

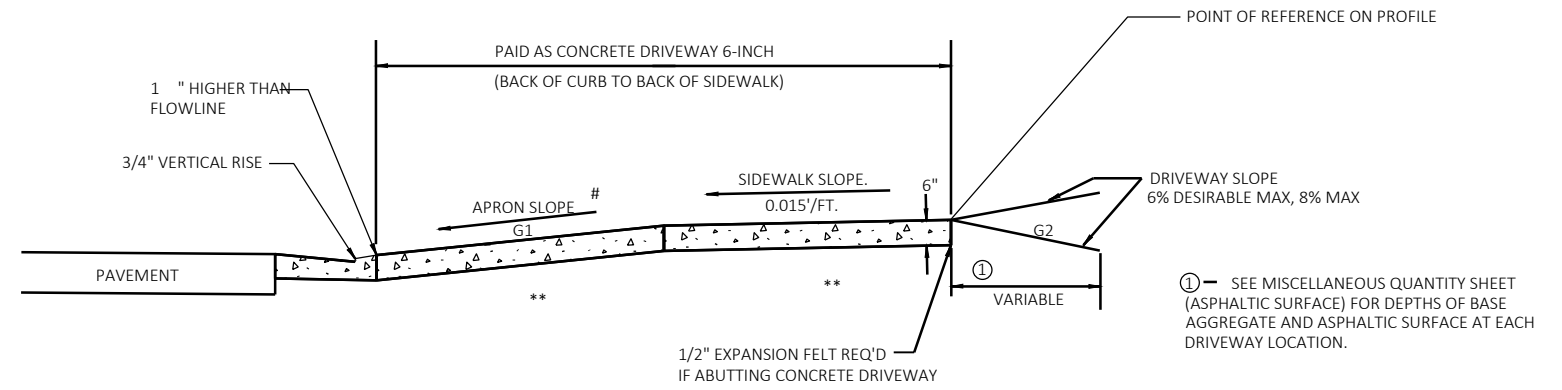


PLAN VIEW

- (A) WHEN "D" IS 13' OR LESS, ALIGN TAPER WITH BACK OF SIDEWALK
- (B) WHEN "D" IS GREATER THAN 13', ALIGN TAPER WITH FRONT OF SIDEWALK



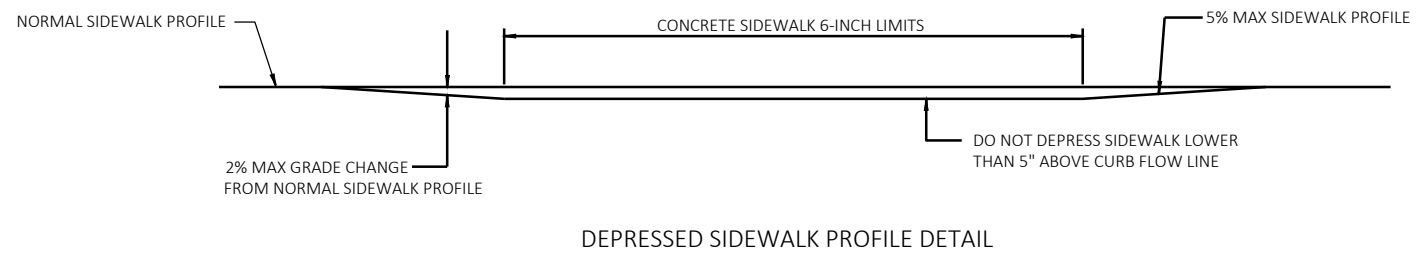
DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER



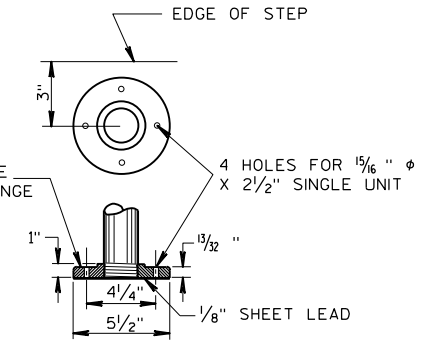
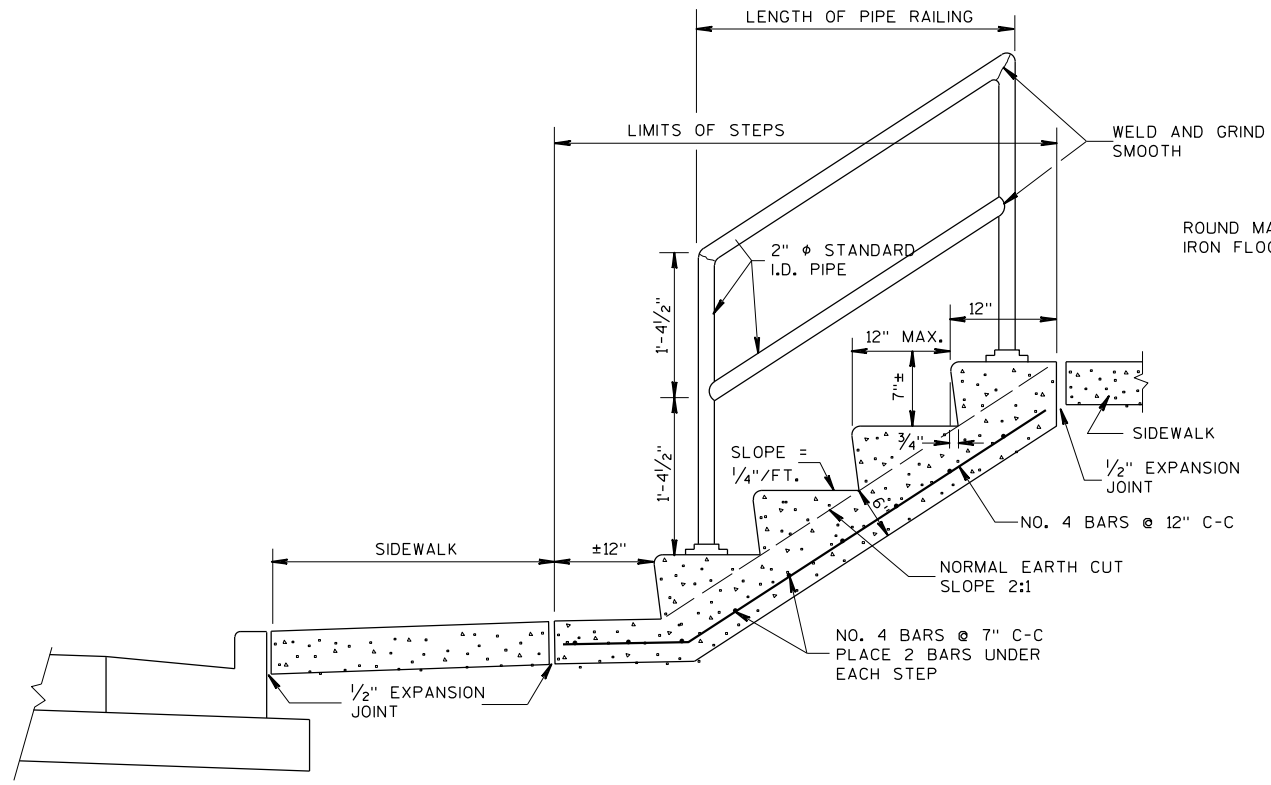
TYPICAL SIDEWALK SECTION

#	TERRACE WIDTH	APRON SLOPE (G1)		
		MIN %	DESIRABLE %	MAX %
	3 FT	7.0	8.5	9.0
	4 FT	5.0	7.0	9.0
	5 FT	4.0	7.0	9.0
	6 FT	4.0	7.0	9.0
	7 FT	3.5	7.0	9.0
	8 FT	3.0	7.0	9.0

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%
 DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE



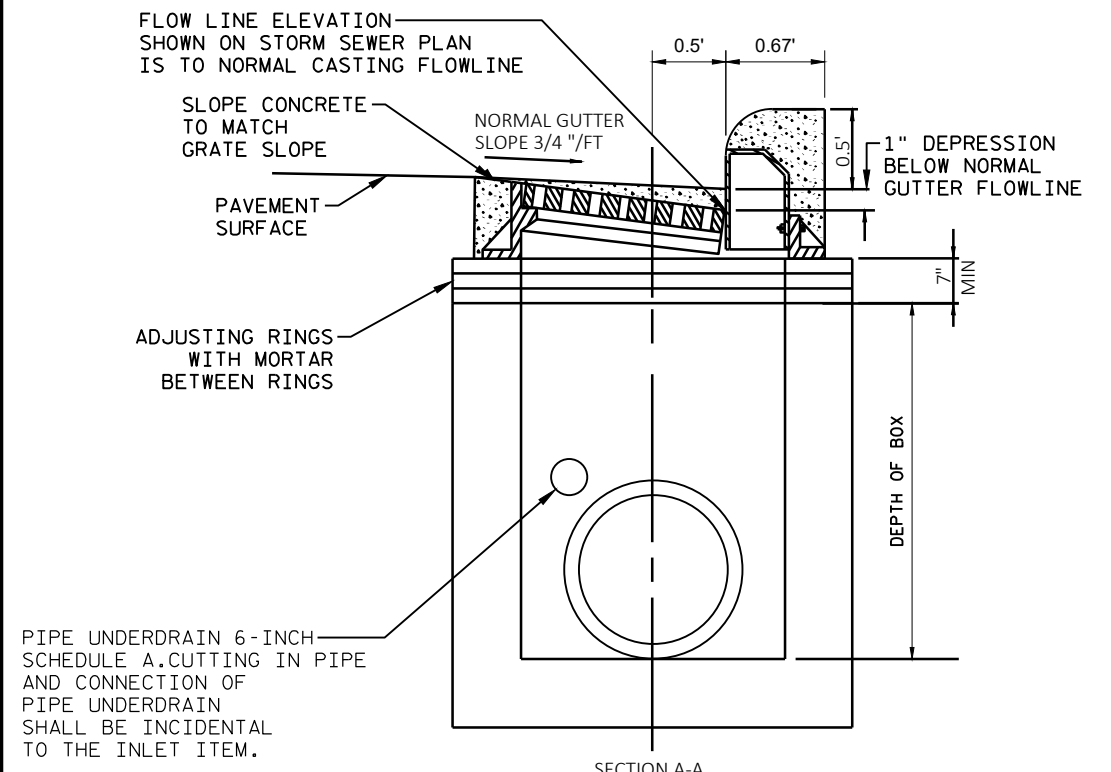
DEPRESSED SIDEWALK PROFILE DETAIL



FLANGE DETAIL

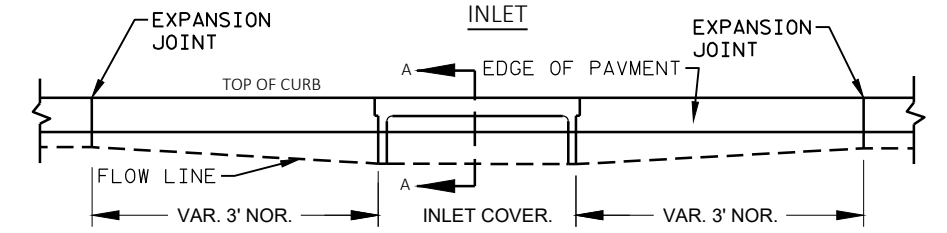
NOTE:
 THE EXACT LOCATION, WIDTHS, & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
 STEEL REINFORCEMENT AND PIPE RAILING NOT REQUIRED ON STEPS WITH 2 RISERS OR LESS.
 MINIMUM WIDTH OF STEP EQUALS 4 FEET.
 RAILING TO BE PLACED ON LEFT ASCENDING SIDE OF STEPS ONLY.

CONCRETE STEPS DETAIL

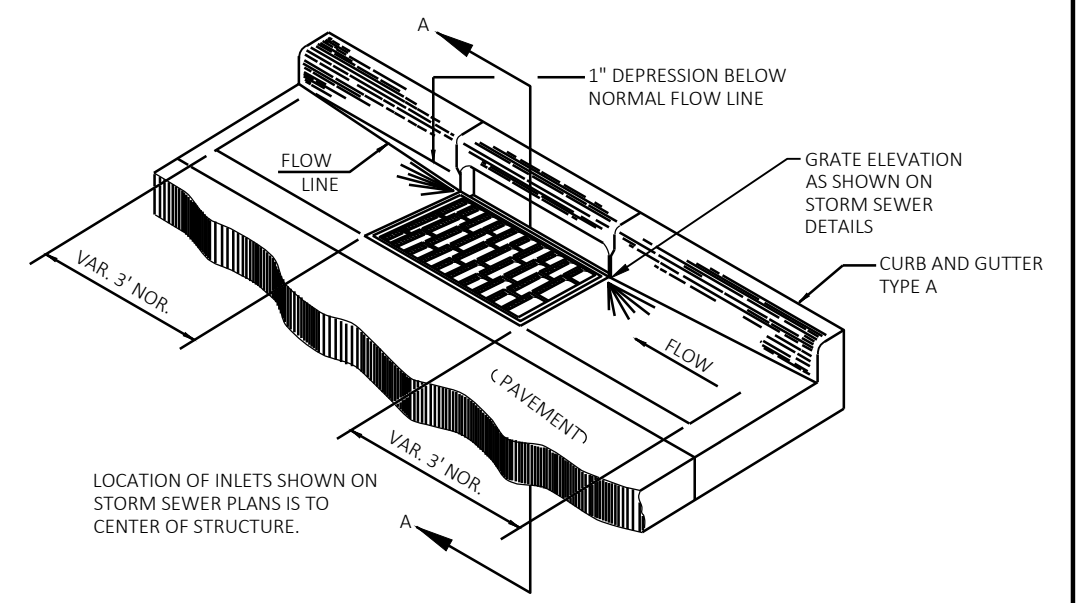


PIPE UNDERDRAIN 6-INCH SCHEDULE A CUTTING IN PIPE AND CONNECTION OF PIPE UNDERDRAIN SHALL BE INCIDENTAL TO THE INLET ITEM.

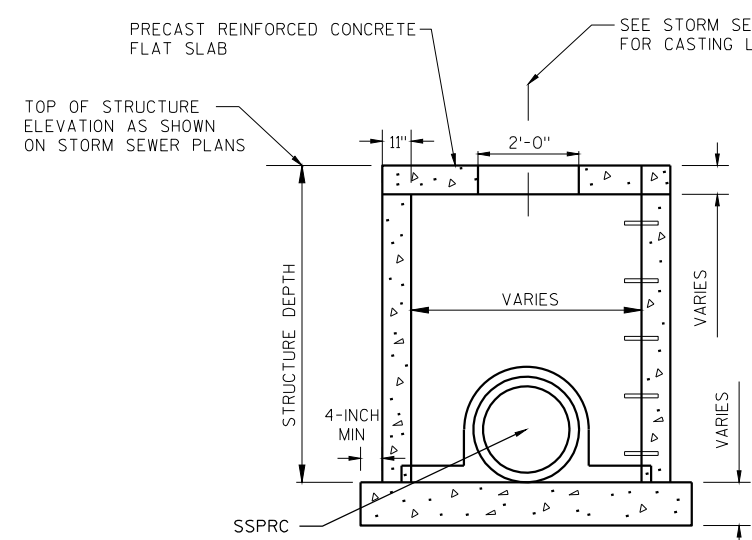
SECTION A-A INLET



ELEVATION



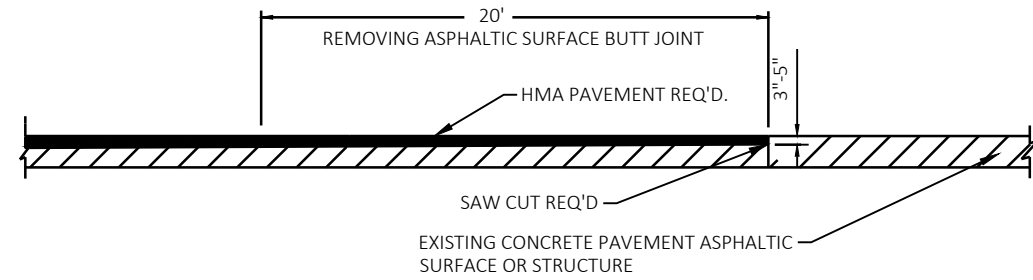
DETAIL OF CURB AND GUTTER AT INLETS



STATIONS AND OFFSETS ARE SHOWN IN STORM SEWER PLANS ARE TO THE CENTER OF STRUCTURE, 1.0' FROM BACK OF CURB (TOWARDS CENTERLINE). THESE OFFSETS COULD CHANGE TO DEPENDING ON OPENING LOCATION ON FLAT SLAB COVER. ADJUST STRUCTURE LOCATION TO ENSURE CENTER OF FLAT SLAB COVER OPENING IS 1.0' TOWARDS THE STREET FROM FINISHED BACK OF CURB.
 STRUCTURES TO BE DESIGNED TO MEET ALL APPLICABLE ASTM AND WISDOT REQUIREMENTS.

SEE STANDARD DETAIL DRAWING MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT & 8-FT DIAMETER AND MANHOLES 10-FT DIAMETER DETAIL ABOVE FOR ADDITIONAL STRUCTURE INFORMATION. STRUCTURES TO BE BUILT AS MANHOLES OF THE SAME DIAMETER WITH A 2'x3' OPENING AS SHOWN ON THE STANDARD DETAIL DRAWING FOR INLETS 4-FT DIAMETER.
 SEE STORM SEWER TRENCH DETAIL.

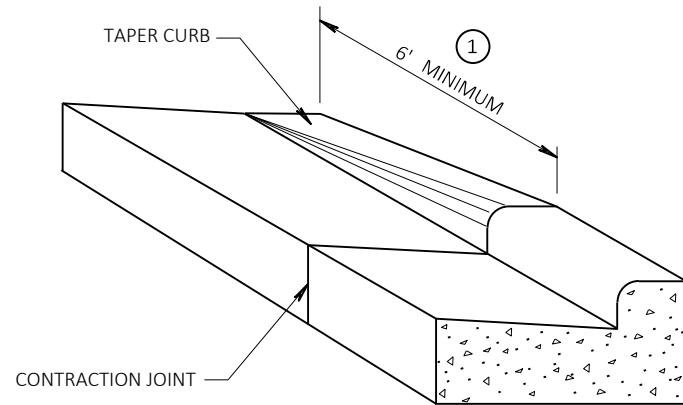
INLETS 5, 6, 7, 8, & 10-FT DIAMETER



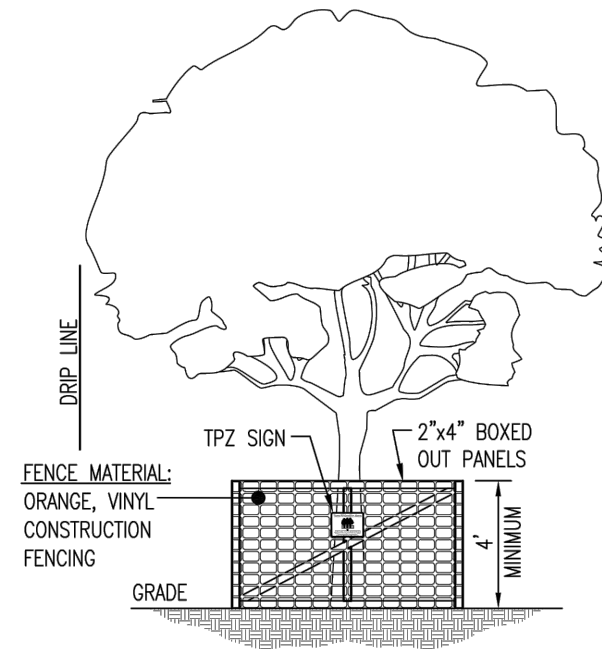
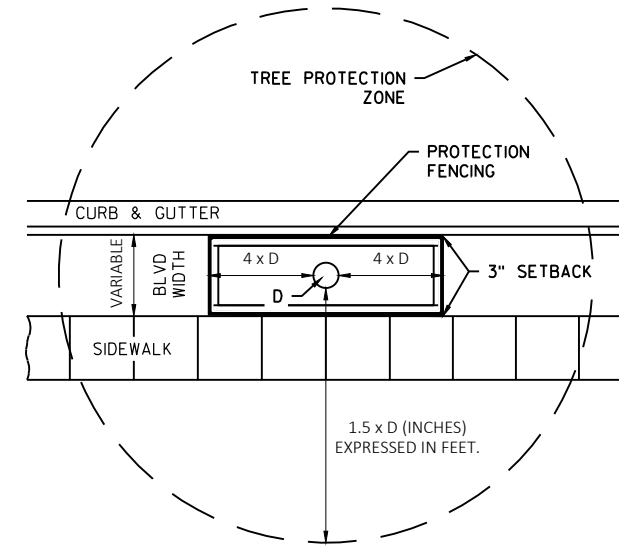
DETAIL OF BUTTED JOINT

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

① PROVIDE TAPERED CURB HEAD AT APPROACH ENDS. INCIDENTAL TO CONCRETE CURB & GUTTER ITEMS TO WHICH IT APPLIES.



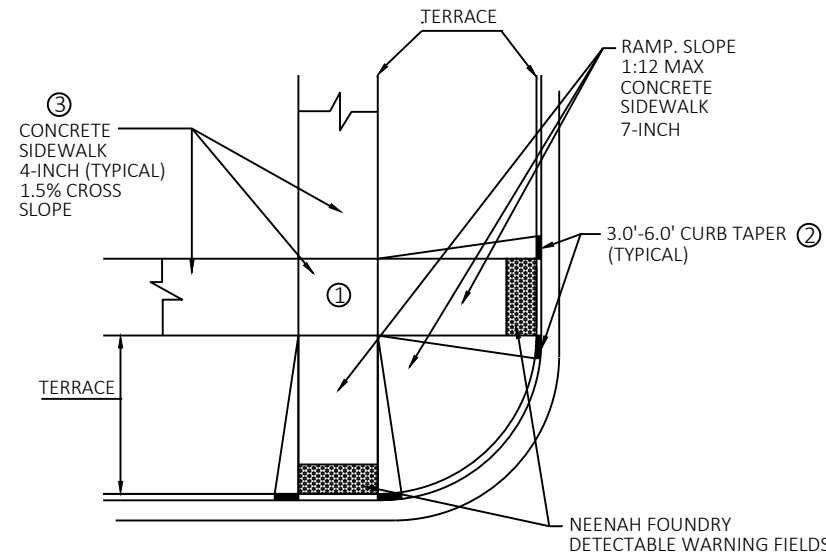
DETAIL OF CURB & GUTTER TERMINI



CONTRACTOR IS TO AVOID EQUIPMENT, MATERIAL STORAGE AND SOIL COMPACTION IN THE TREE PROTECTION ZONE.

PROTECTION BEHIND SIDEWALK - FENCING AND PROTECTION WORK TO BE COMPLETED WITHIN THE EXISTING R/W ONLY.

TREE PROTECTION ZONE TYPE 1
(NO SCALE)



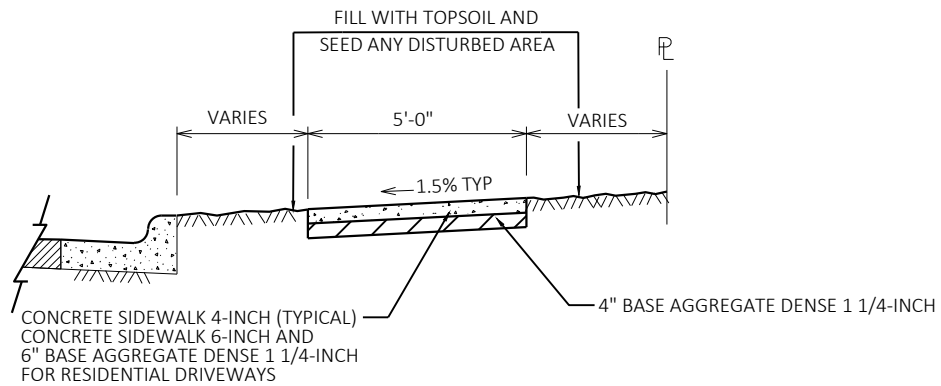
NOTES:

- ① PROVIDE LANDING AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION. MINIMUM LANDING SIZE 5'x5', CONCRETE DEPTH SHALL BE 4 INCHES.
- ② PROVIDE 3.0' TAPER (6:1 MAX) ADJACENT TO NON-TRAVERSABLE SURFACES AND 6.0' TAPER (10:1 MAX) ADJACENT TO TRAVERSABLE SURFACES.
- ③ SEE INTERSECTION DETAIL SHEETS FOR SIDEWALK WIDTHS.

PEDESTRIAN RAMP REPLACEMENT NOTES:

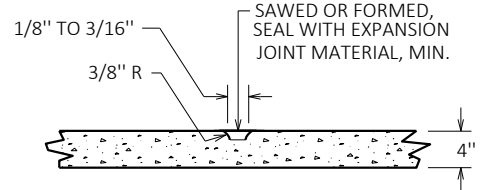
ALL PEDESTRIAN RAMPS ON PROJECT WILL BE REPLACED TO BRING THEM TO ADA SPECIFICATIONS.

PED-RAMP OVERHEAD DETAIL (NO SCALE)

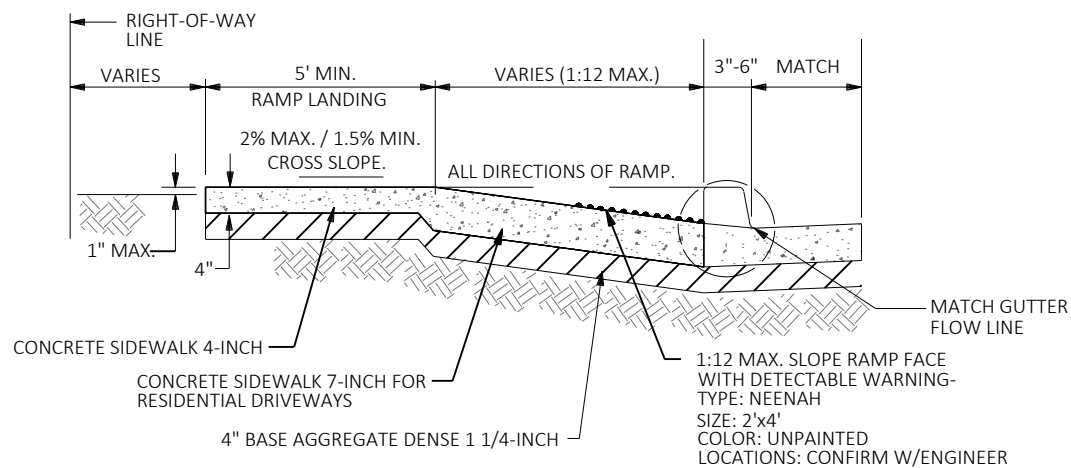


TYPICAL CONCRETE SIDEWALK SECTION

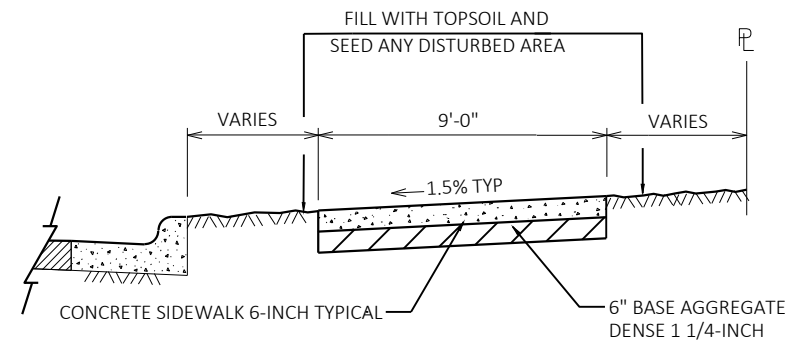
* SIDEWALK PROFILE MAY BE ADJUSTED BY THE ENGINEER TO A MAX. 1:12 SLOPE TO AVOID TREE ROOTS AND MAY BE NARROWED TO MIN. 4' WIDTH, MAINTAINING A MIN. 1.5% CROSS SLOPE.



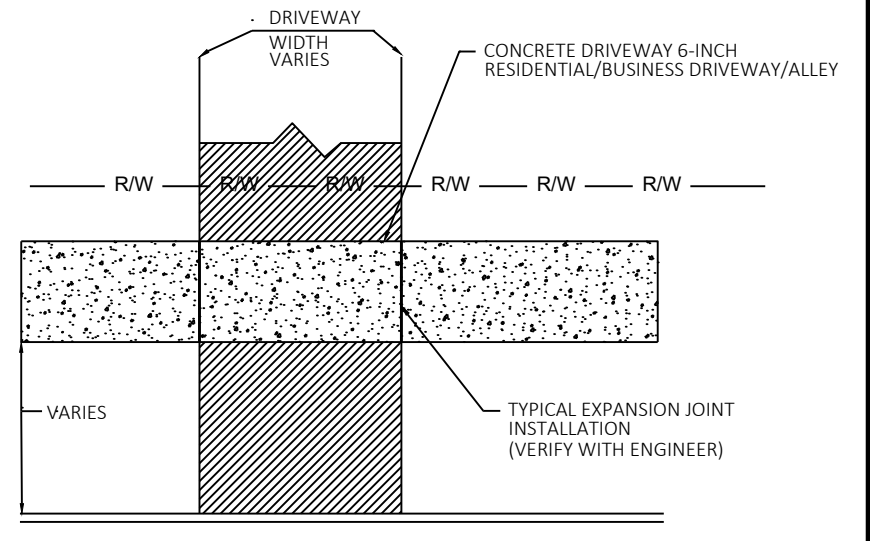
SIDEWALK CONTRACTION JOINT (NO SCALE)



PED-RAMP CROSS-SECTION (NO SCALE)



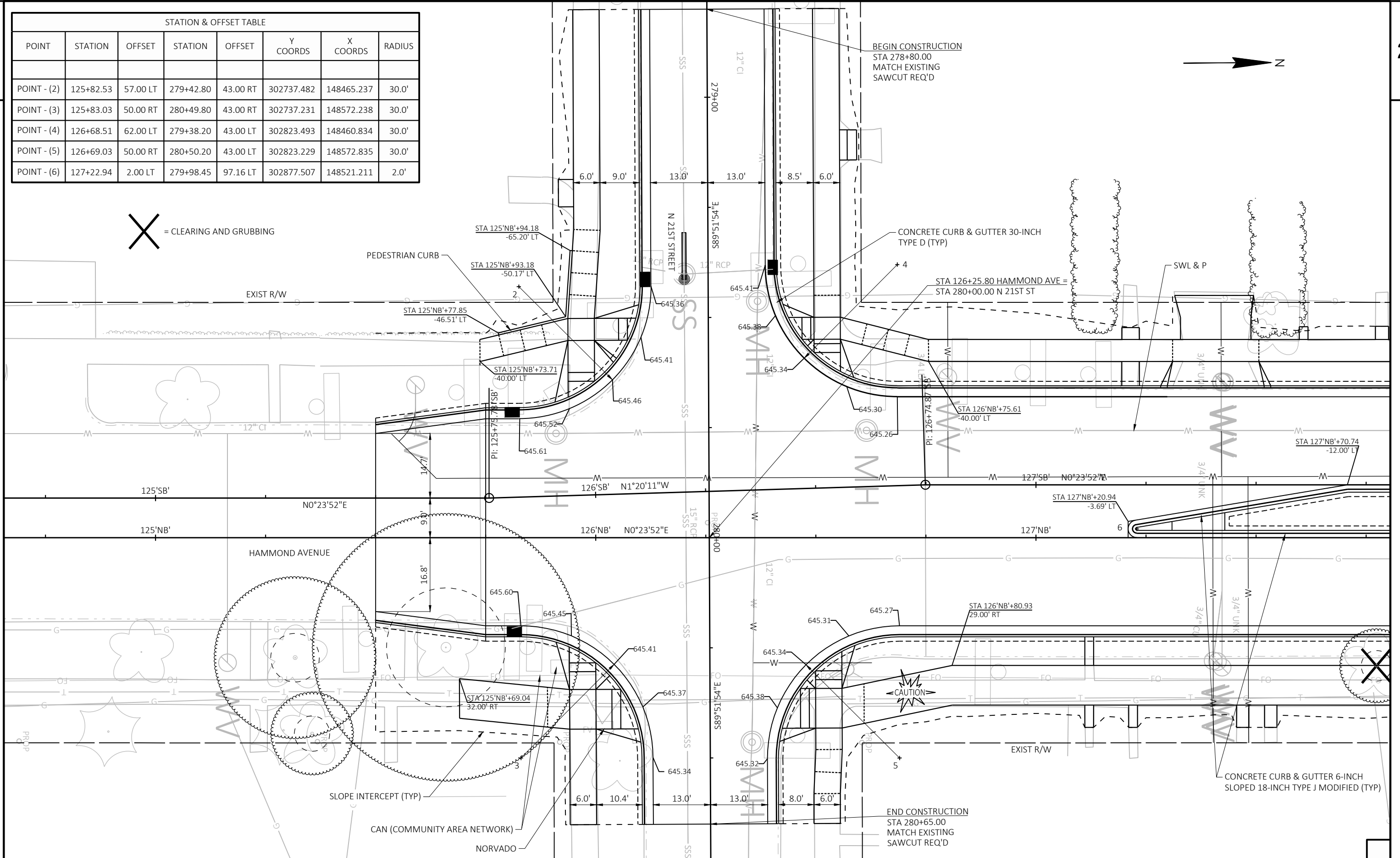
TYPICAL CONCRETE SIDEWALK/TRAIL SECTION

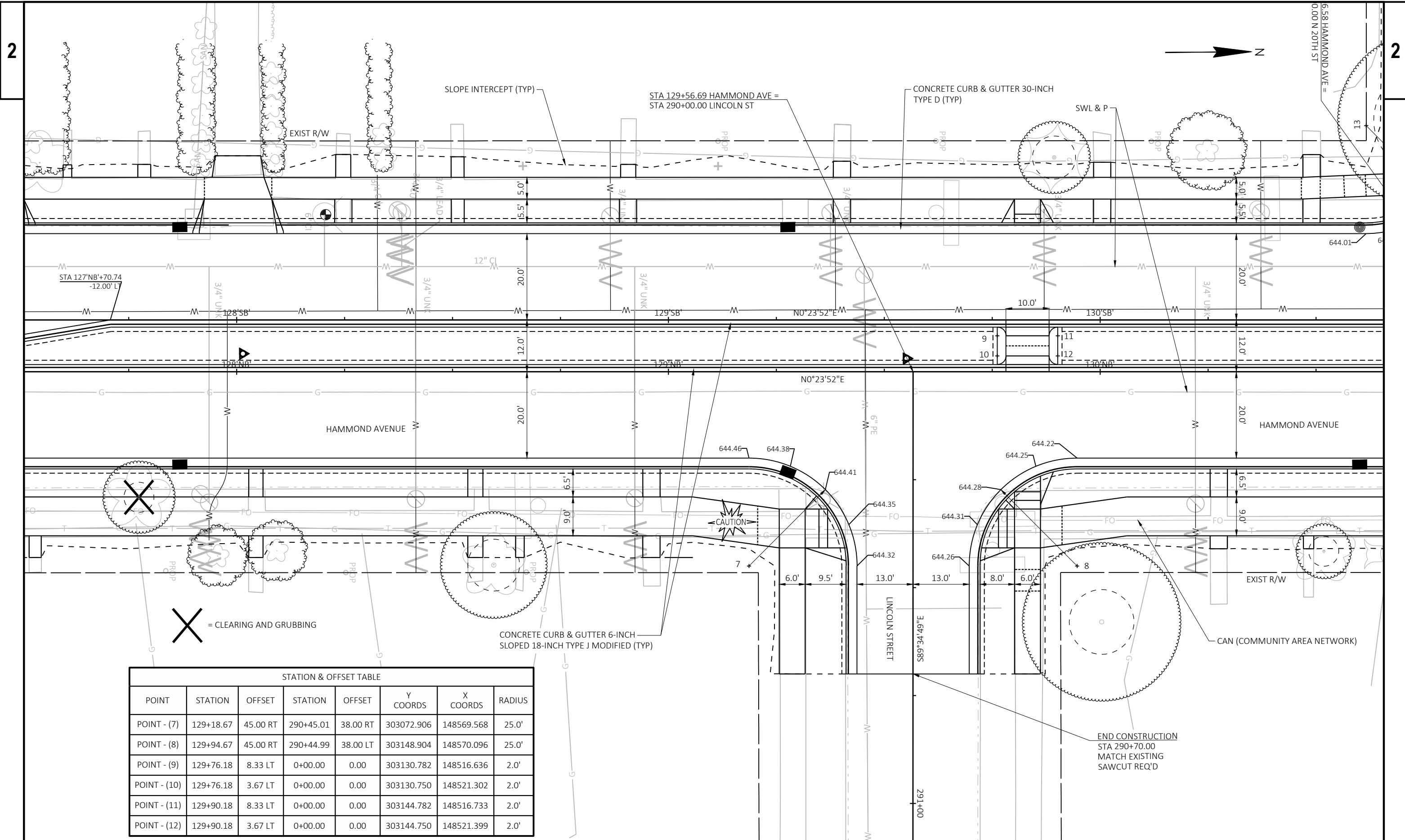


SIDEWALK THROUGH DRIVEWAY OR ALLEY (NO SCALE)

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (2)	125+82.53	57.00 LT	279+42.80	43.00 RT	302737.482	148465.237	30.0'
POINT - (3)	125+83.03	50.00 RT	280+49.80	43.00 RT	302737.231	148572.238	30.0'
POINT - (4)	126+68.51	62.00 LT	279+38.20	43.00 LT	302823.493	148460.834	30.0'
POINT - (5)	126+69.03	50.00 RT	280+50.20	43.00 LT	302823.229	148572.835	30.0'
POINT - (6)	127+22.94	2.00 LT	279+98.45	97.16 LT	302877.507	148521.211	2.0'

X = CLEARING AND GRUBBING





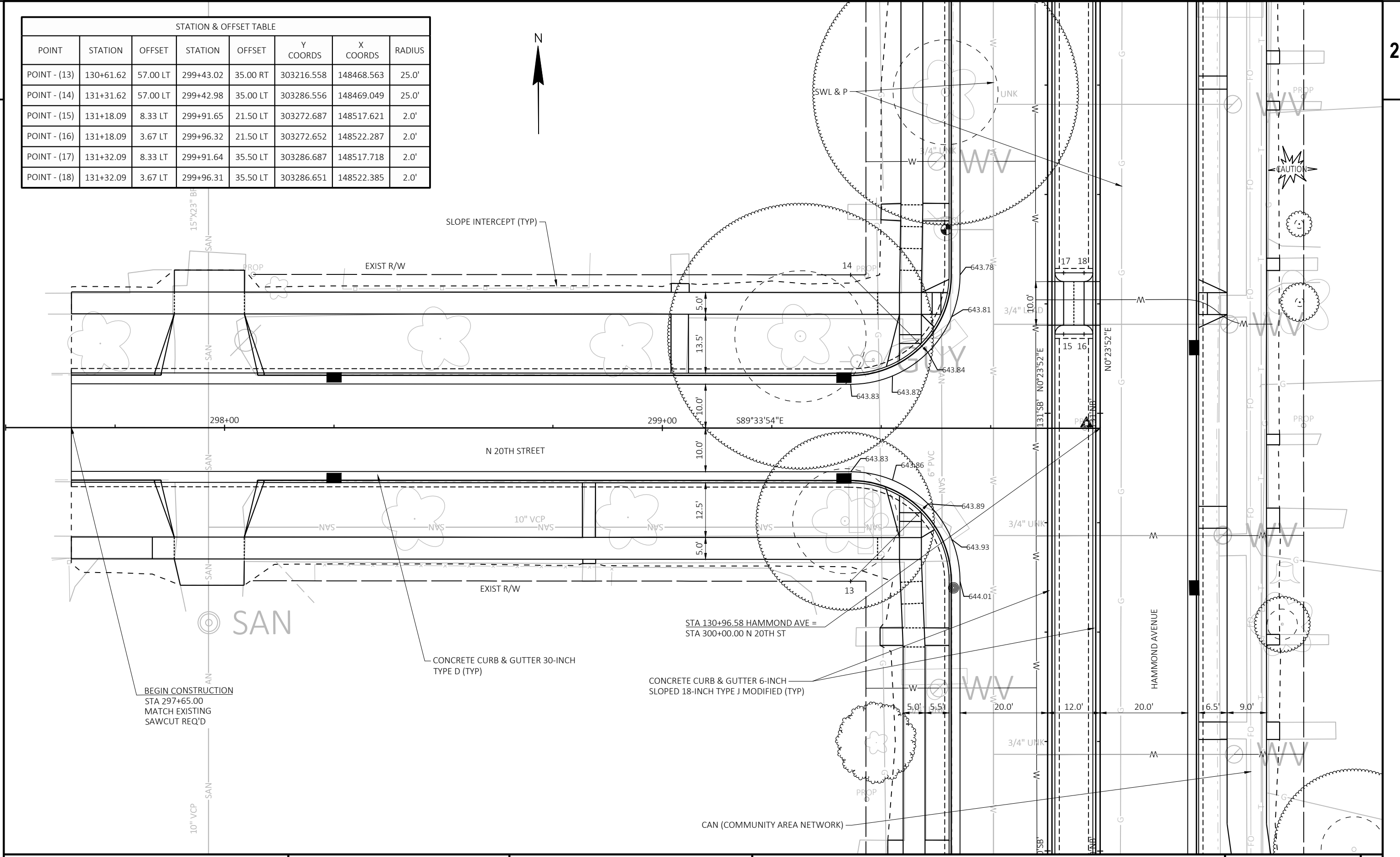
X = CLEARING AND GRUBBING

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (7)	129+18.67	45.00 RT	290+45.01	38.00 RT	303072.906	148569.568	25.0'
POINT - (8)	129+94.67	45.00 RT	290+44.99	38.00 LT	303148.904	148570.096	25.0'
POINT - (9)	129+76.18	8.33 LT	0+00.00	0.00	303130.782	148516.636	2.0'
POINT - (10)	129+76.18	3.67 LT	0+00.00	0.00	303130.750	148521.302	2.0'
POINT - (11)	129+90.18	8.33 LT	0+00.00	0.00	303144.782	148516.733	2.0'
POINT - (12)	129+90.18	3.67 LT	0+00.00	0.00	303144.750	148521.399	2.0'

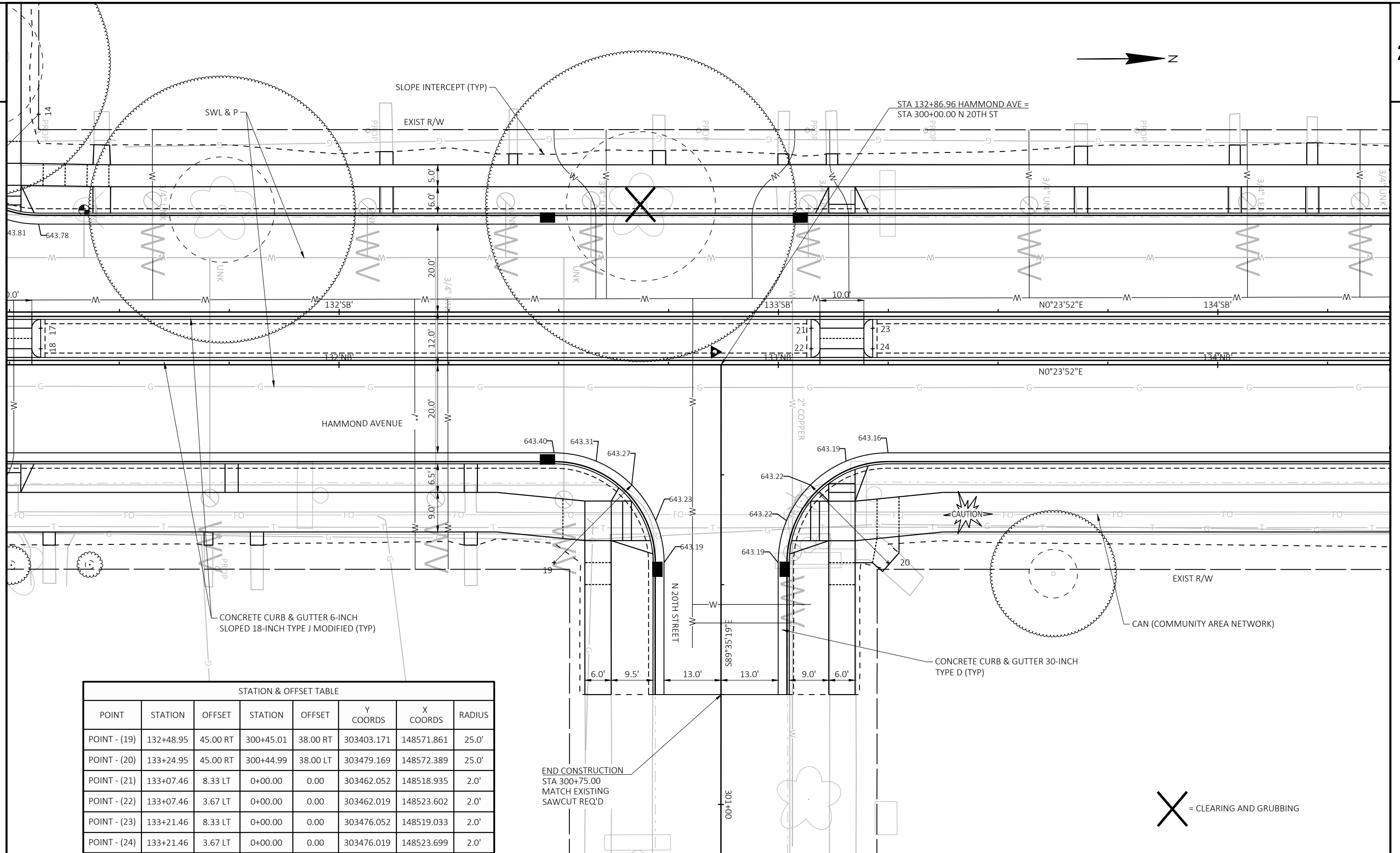
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2

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (13)	130+61.62	57.00 LT	299+43.02	35.00 RT	303216.558	148468.563	25.0'
POINT - (14)	131+31.62	57.00 LT	299+42.98	35.00 LT	303286.556	148469.049	25.0'
POINT - (15)	131+18.09	8.33 LT	299+91.65	21.50 LT	303272.687	148517.621	2.0'
POINT - (16)	131+18.09	3.67 LT	299+96.32	21.50 LT	303272.652	148522.287	2.0'
POINT - (17)	131+32.09	8.33 LT	299+91.64	35.50 LT	303286.687	148517.718	2.0'
POINT - (18)	131+32.09	3.67 LT	299+96.31	35.50 LT	303286.651	148522.385	2.0'



PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS INTERSECTION DETAIL - N 20TH STREET SHEET Page 16 of 207 E

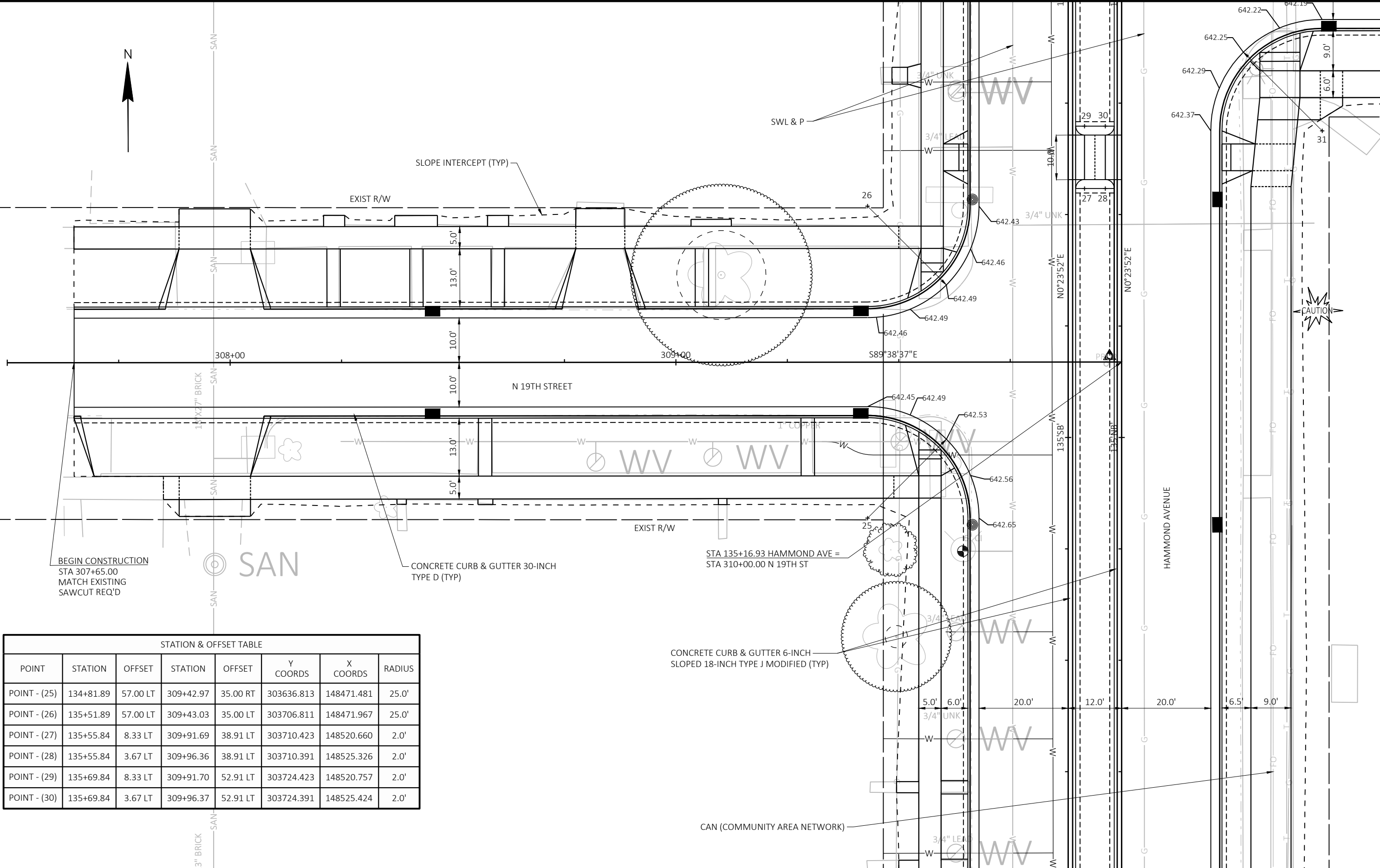


STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (19)	132+48.95	45.00 RT	300+45.01	38.00 RT	303403.171	148571.861	25.0'
POINT - (20)	133+24.95	45.00 RT	300+44.99	38.00 LT	303479.169	148572.389	25.0'
POINT - (21)	133+07.46	8.33 LT	0+00.00	0.00	303462.052	148518.935	2.0'
POINT - (22)	133+07.46	3.67 LT	0+00.00	0.00	303462.019	148523.602	2.0'
POINT - (23)	133+21.46	8.33 LT	0+00.00	0.00	303476.052	148519.033	2.0'
POINT - (24)	133+21.46	3.67 LT	0+00.00	0.00	303476.019	148523.699	2.0'

END CONSTRUCTION
STA 300+75.00
MATCH EXISTING
SAWCUT REQ'D

X = CLEARING AND GRUBBING



BEGIN CONSTRUCTION
 STA 307+65.00
 MATCH EXISTING
 SAWCUT REQ'D

SAN

CONCRETE CURB & GUTTER 30-INCH
 TYPE D (TYP)

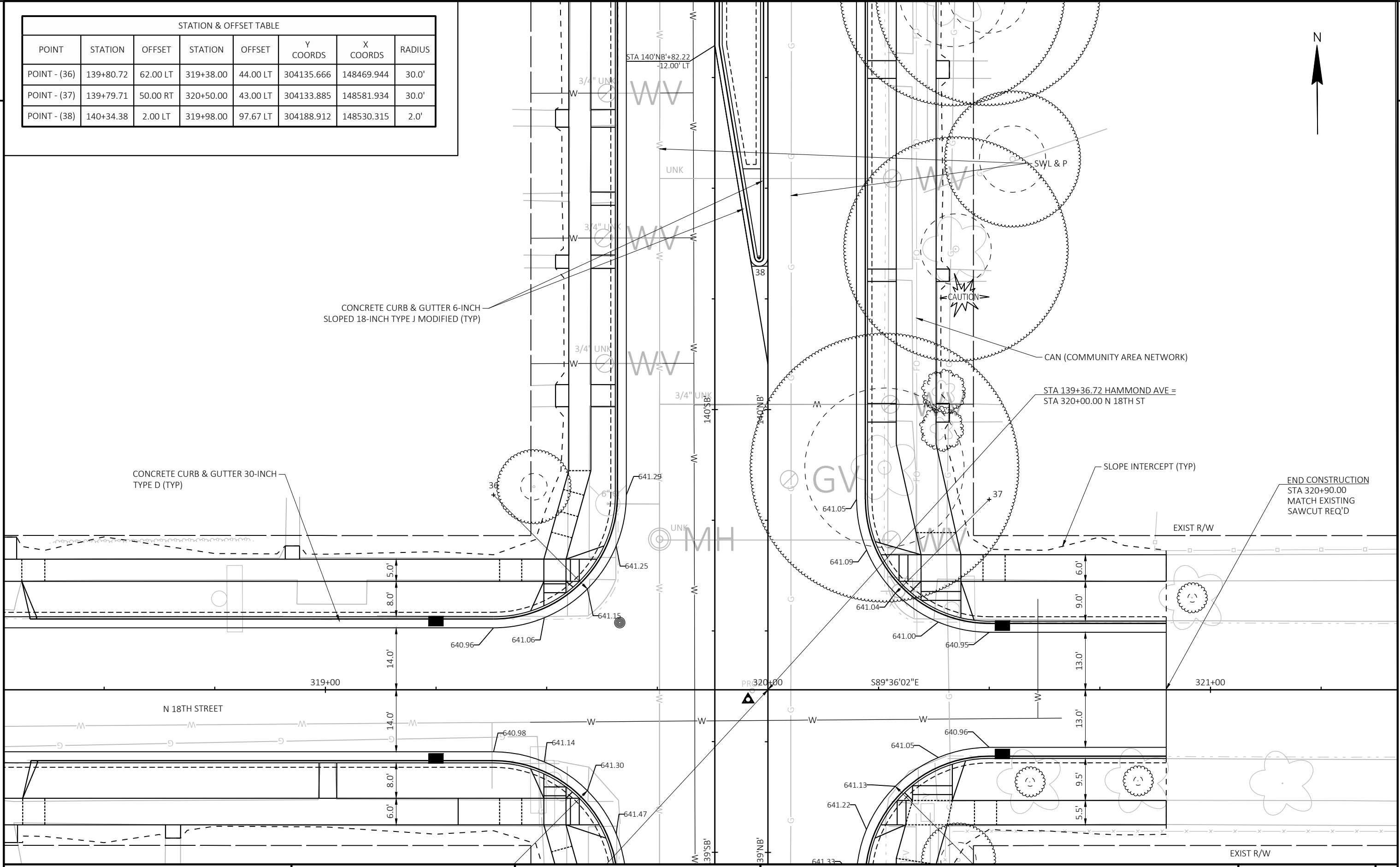
STA 135+16.93 HAMMOND AVE =
 STA 310+00.00 N 19TH ST

CONCRETE CURB & GUTTER 6-INCH
 SLOPED 18-INCH TYPE J MODIFIED (TYP)

CAN (COMMUNITY AREA NETWORK)

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (25)	134+81.89	57.00 LT	309+42.97	35.00 RT	303636.813	148471.481	25.0'
POINT - (26)	135+51.89	57.00 LT	309+43.03	35.00 LT	303706.811	148471.967	25.0'
POINT - (27)	135+55.84	8.33 LT	309+91.69	38.91 LT	303710.423	148520.660	2.0'
POINT - (28)	135+55.84	3.67 LT	309+96.36	38.91 LT	303710.391	148525.326	2.0'
POINT - (29)	135+69.84	8.33 LT	309+91.70	52.91 LT	303724.423	148520.757	2.0'
POINT - (30)	135+69.84	3.67 LT	309+96.37	52.91 LT	303724.391	148525.424	2.0'

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (36)	139+80.72	62.00 LT	319+38.00	44.00 LT	304135.666	148469.944	30.0'
POINT - (37)	139+79.71	50.00 RT	320+50.00	43.00 LT	304133.885	148581.934	30.0'
POINT - (38)	140+34.38	2.00 LT	319+98.00	97.67 LT	304188.912	148530.315	2.0'



CONCRETE CURB & GUTTER 30-INCH
TYPE D (TYP)

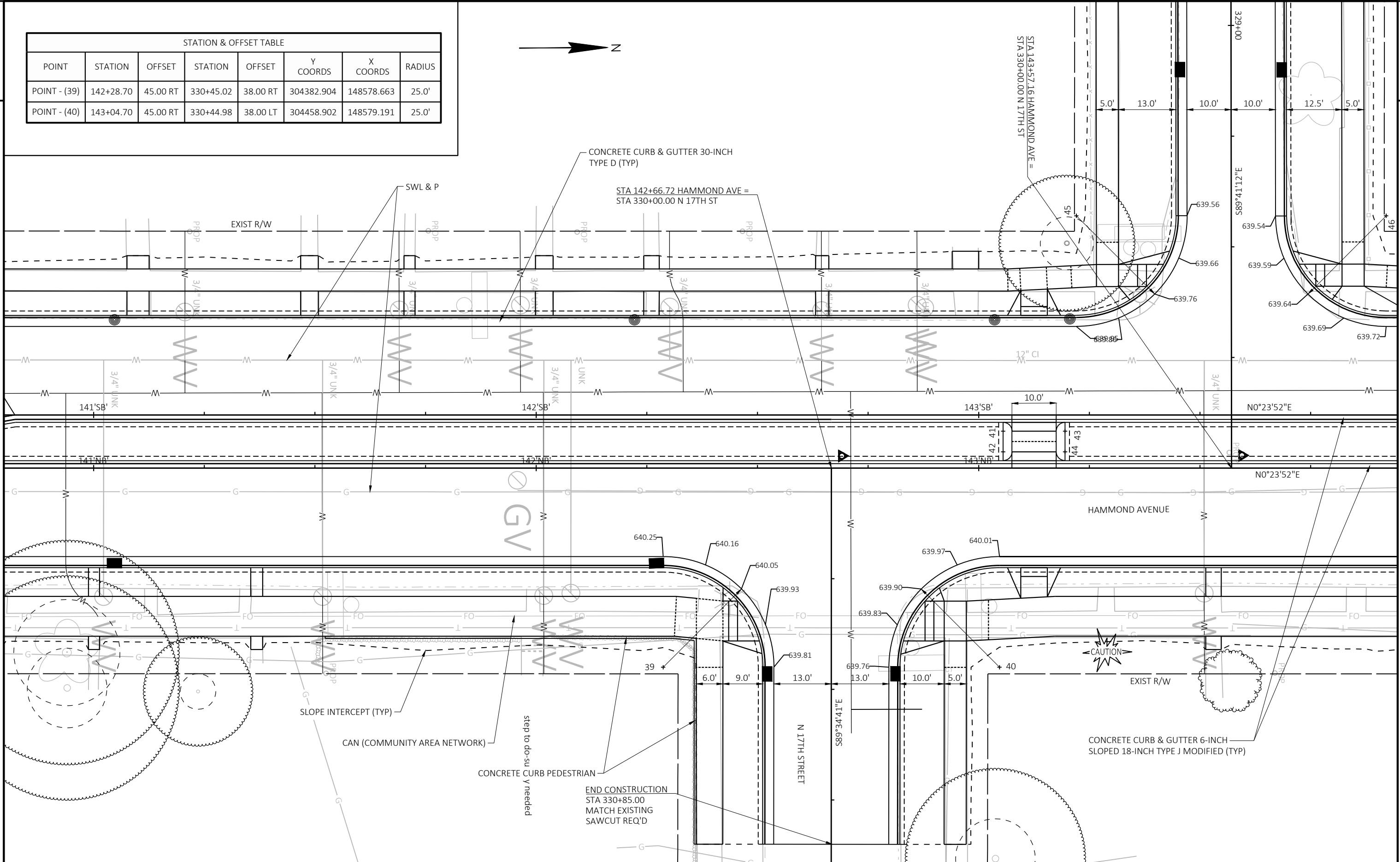
CONCRETE CURB & GUTTER 6-INCH
SLOPED 18-INCH TYPE J MODIFIED (TYP)

CAN (COMMUNITY AREA NETWORK)

STA 139+36.72 HAMMOND AVE =
STA 320+00.00 N 18TH ST

END CONSTRUCTION
STA 320+90.00
MATCH EXISTING
SAWCUT REQ'D

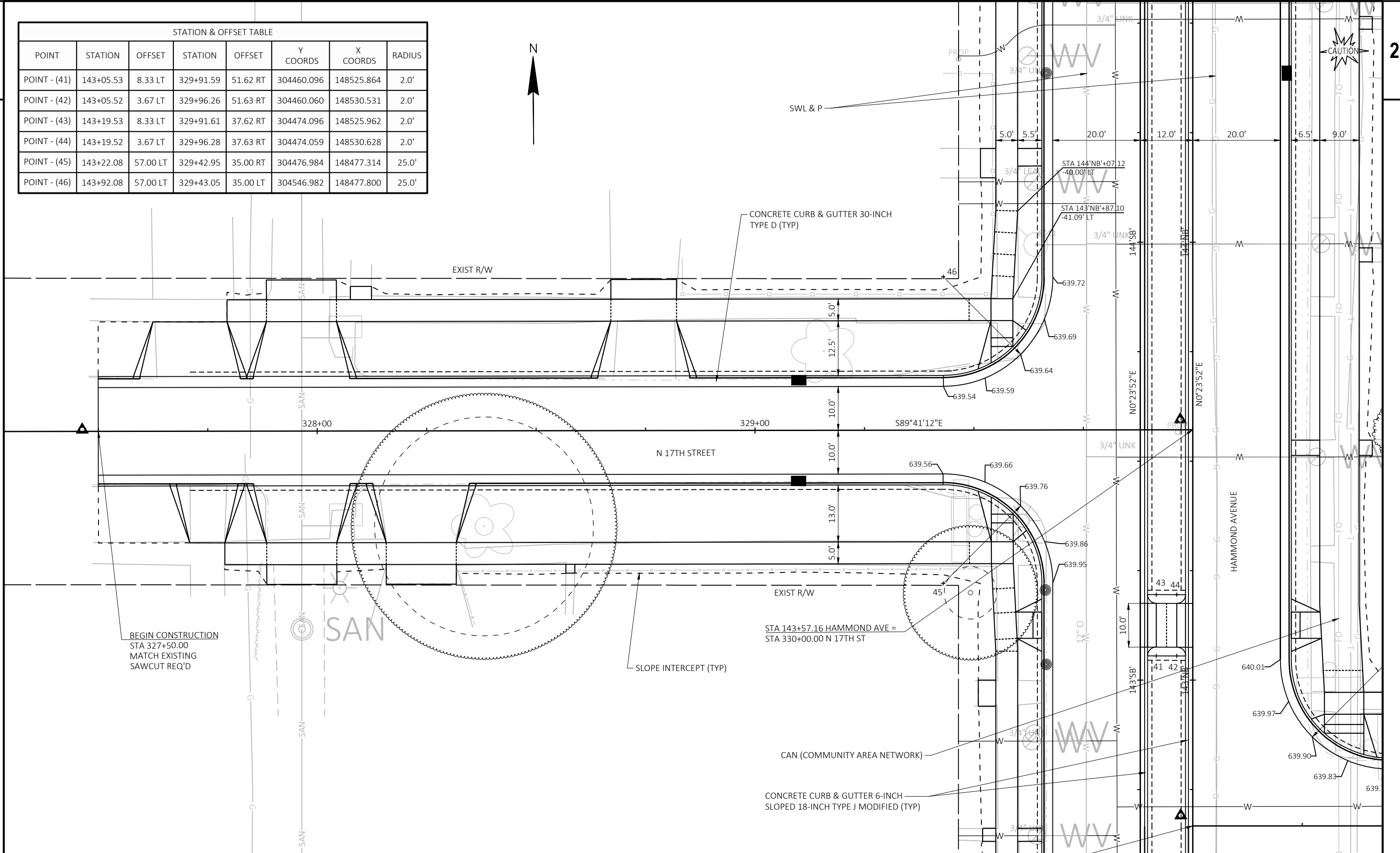
STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (39)	142+28.70	45.00 RT	330+45.02	38.00 RT	304382.904	148578.663	25.0'
POINT - (40)	143+04.70	45.00 RT	330+44.98	38.00 LT	304458.902	148579.191	25.0'



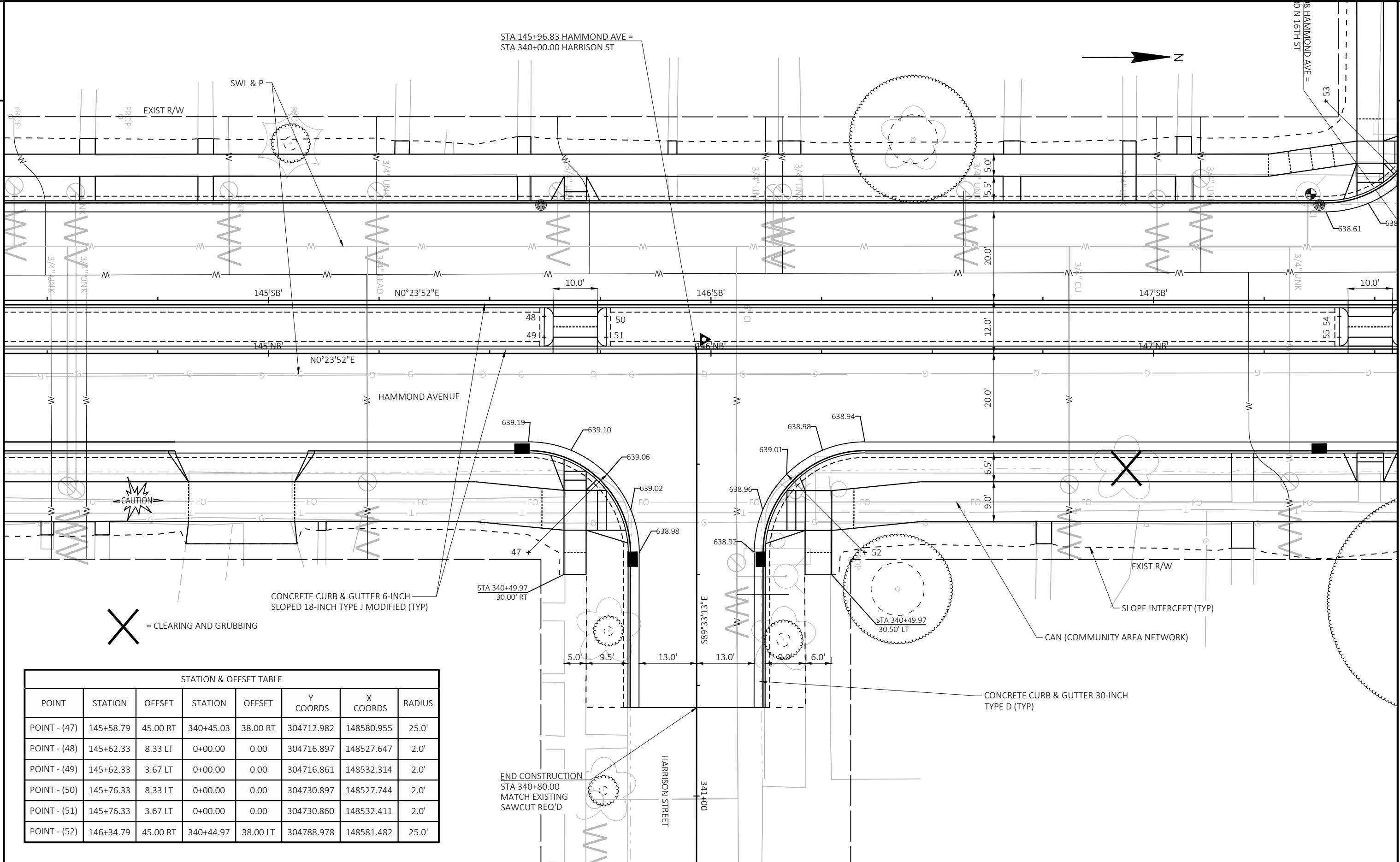
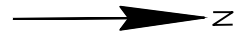
2

2

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (41)	143+05.53	8.33 LT	329+91.59	51.62 RT	304460.096	148525.864	2.0'
POINT - (42)	143+05.52	3.67 LT	329+96.26	51.63 RT	304460.060	148530.531	2.0'
POINT - (43)	143+19.53	8.33 LT	329+91.61	37.62 RT	304474.096	148525.962	2.0'
POINT - (44)	143+19.52	3.67 LT	329+96.28	37.63 RT	304474.059	148530.628	2.0'
POINT - (45)	143+22.08	57.00 LT	329+42.95	35.00 RT	304476.984	148477.314	25.0'
POINT - (46)	143+92.08	57.00 LT	329+43.05	35.00 LT	304546.982	148477.800	25.0'



STA 145+96.83 HAMMOND AVE =
STA 340+00.00 HARRISON ST



X = CLEARING AND GRUBBING

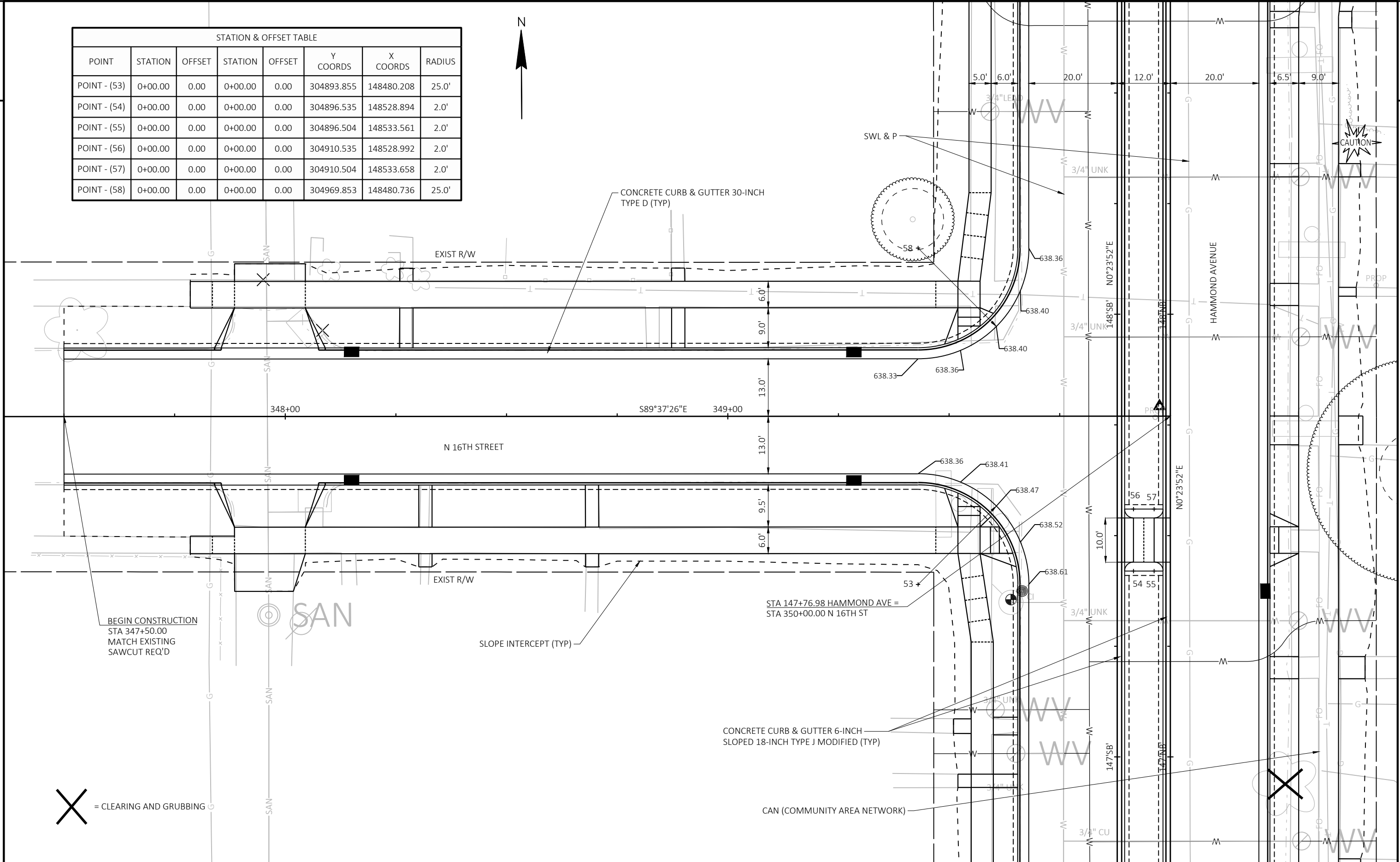
CONCRETE CURB & GUTTER 6-INCH
SLOPED 18-INCH TYPE J MODIFIED (TYP)

CONCRETE CURB & GUTTER 30-INCH
TYPE D (TYP)

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (47)	145+58.79	45.00 RT	340+45.03	38.00 RT	304712.982	148580.955	25.0'
POINT - (48)	145+62.33	8.33 LT	0+00.00	0.00	304716.897	148527.647	2.0'
POINT - (49)	145+62.33	3.67 LT	0+00.00	0.00	304716.861	148532.314	2.0'
POINT - (50)	145+76.33	8.33 LT	0+00.00	0.00	304730.897	148527.744	2.0'
POINT - (51)	145+76.33	3.67 LT	0+00.00	0.00	304730.860	148532.411	2.0'
POINT - (52)	146+34.79	45.00 RT	340+44.97	38.00 LT	304788.978	148581.482	25.0'

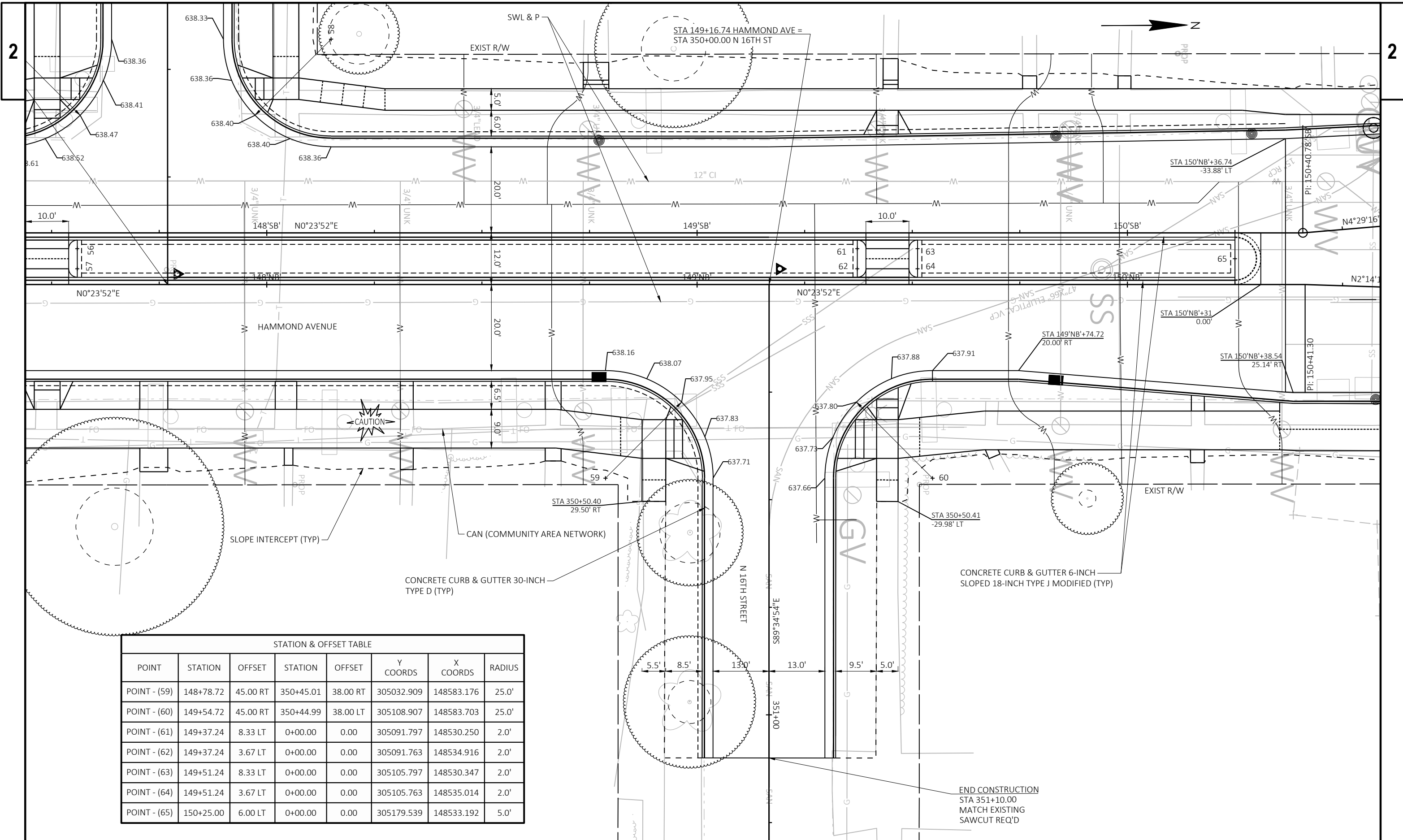
END CONSTRUCTION
STA 340+80.00
MATCH EXISTING
SAWCUT REQ'D

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (53)	0+00.00	0.00	0+00.00	0.00	304893.855	148480.208	25.0'
POINT - (54)	0+00.00	0.00	0+00.00	0.00	304896.535	148528.894	2.0'
POINT - (55)	0+00.00	0.00	0+00.00	0.00	304896.504	148533.561	2.0'
POINT - (56)	0+00.00	0.00	0+00.00	0.00	304910.535	148528.992	2.0'
POINT - (57)	0+00.00	0.00	0+00.00	0.00	304910.504	148533.658	2.0'
POINT - (58)	0+00.00	0.00	0+00.00	0.00	304969.853	148480.736	25.0'

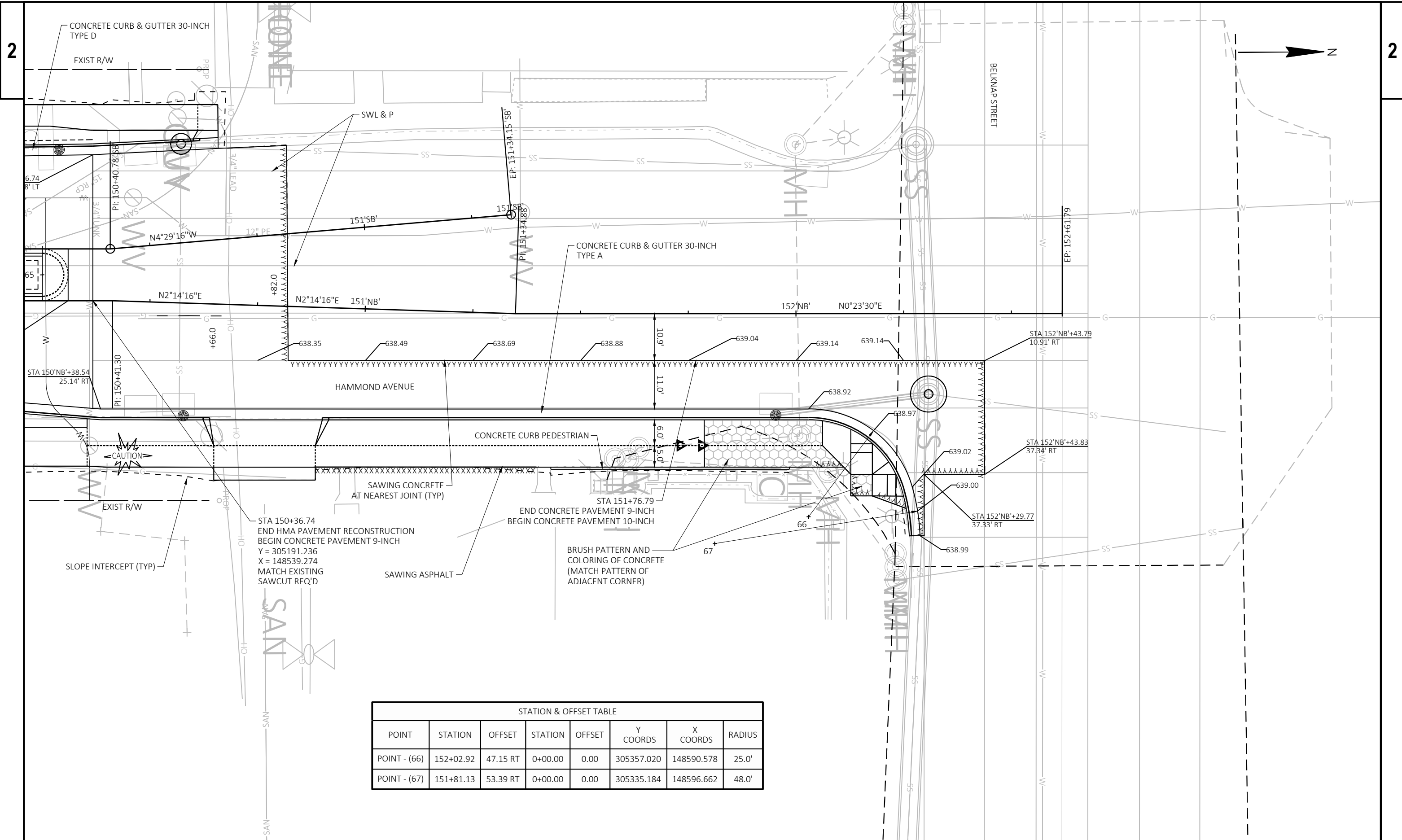


BEGIN CONSTRUCTION
 STA 347+50.00
 MATCH EXISTING
 SAWCUT REQ'D

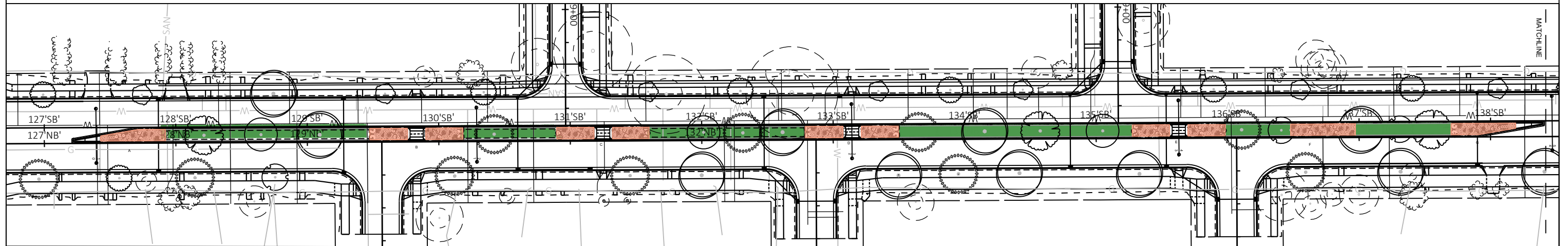
X = CLEARING AND GRUBBING



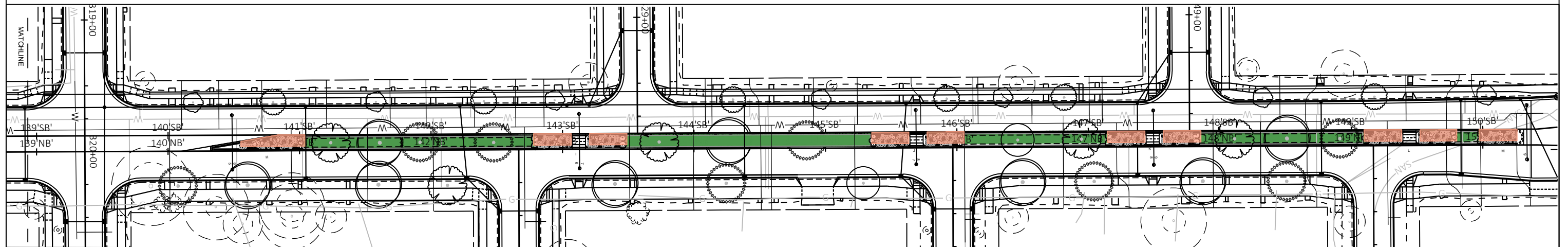
STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (59)	148+78.72	45.00 RT	350+45.01	38.00 RT	305032.909	148583.176	25.0'
POINT - (60)	149+54.72	45.00 RT	350+44.99	38.00 LT	305108.907	148583.703	25.0'
POINT - (61)	149+37.24	8.33 LT	0+00.00	0.00	305091.797	148530.250	2.0'
POINT - (62)	149+37.24	3.67 LT	0+00.00	0.00	305091.763	148534.916	2.0'
POINT - (63)	149+51.24	8.33 LT	0+00.00	0.00	305105.797	148530.347	2.0'
POINT - (64)	149+51.24	3.67 LT	0+00.00	0.00	305105.763	148535.014	2.0'
POINT - (65)	150+25.00	6.00 LT	0+00.00	0.00	305179.539	148533.192	5.0'



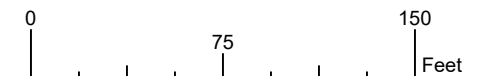
STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
POINT - (66)	152+02.92	47.15 RT	0+00.00	0.00	305357.020	148590.578	25.0'
POINT - (67)	151+81.13	53.39 RT	0+00.00	0.00	305335.184	148596.662	48.0'

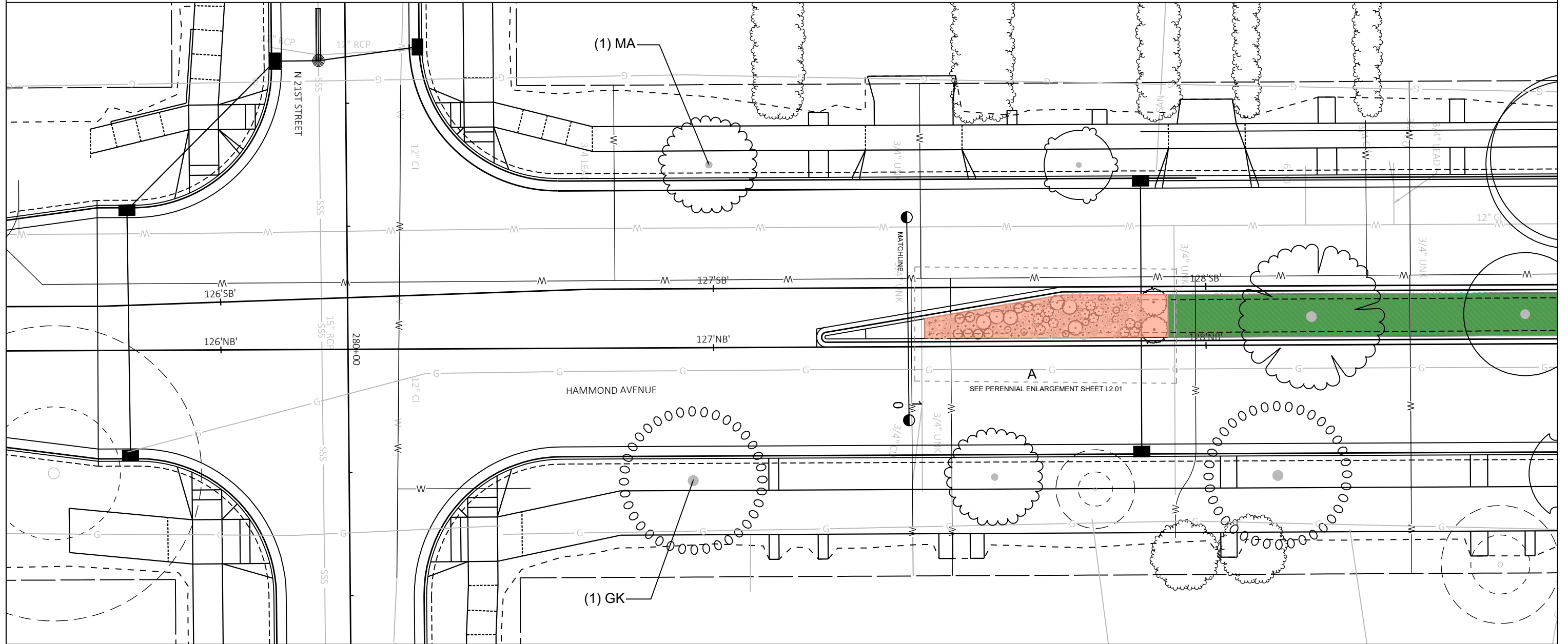
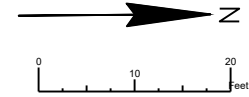


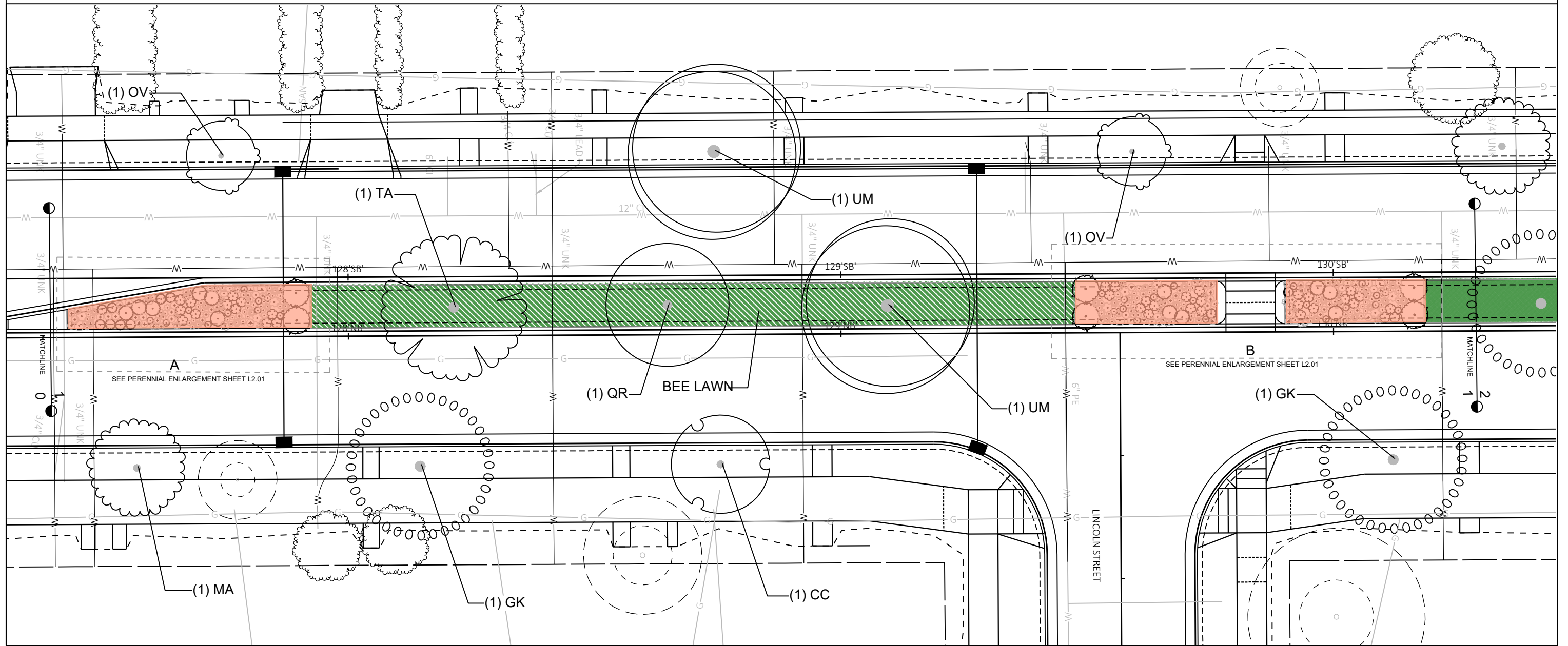
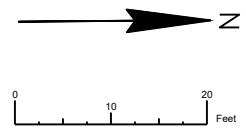
OVERVIEW: HAMMOND AVENUE - SOUTH

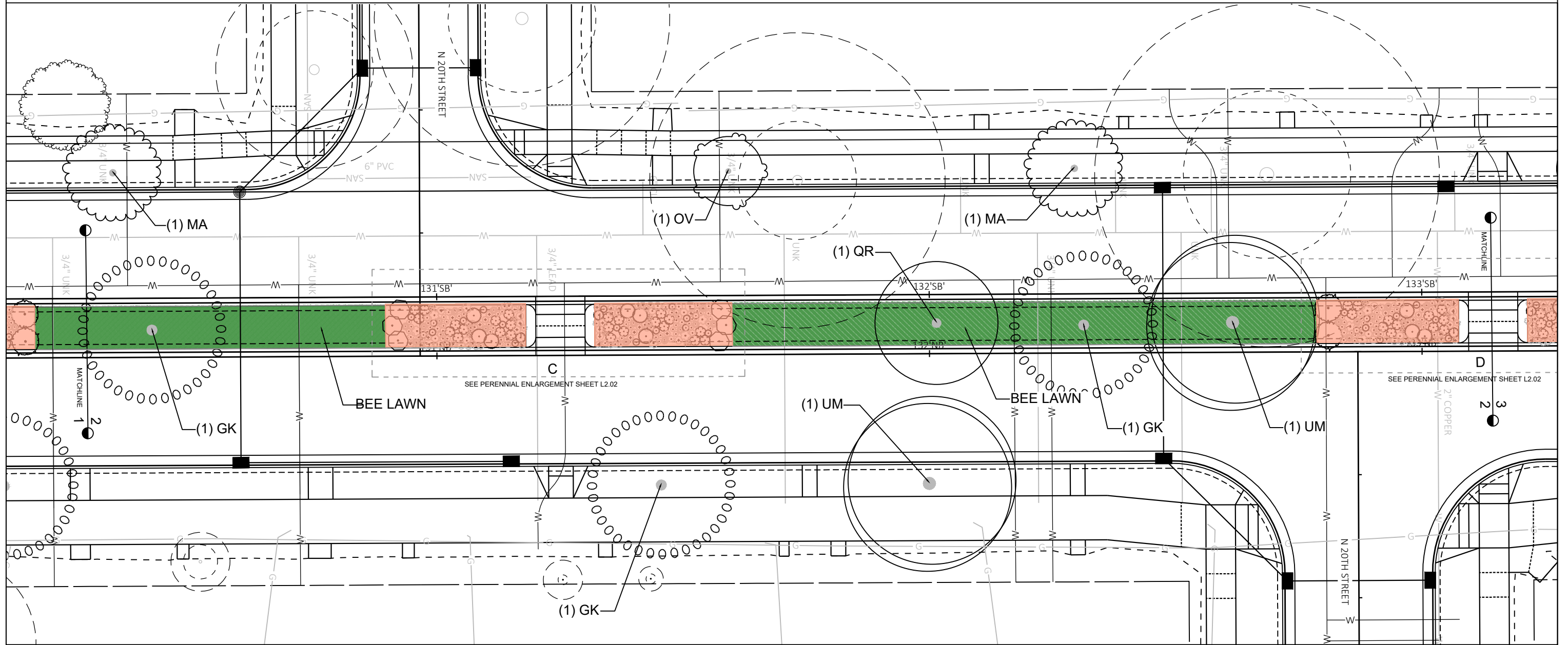
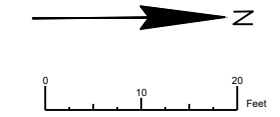


OVERVIEW: HAMMOND AVENUE - NORTH

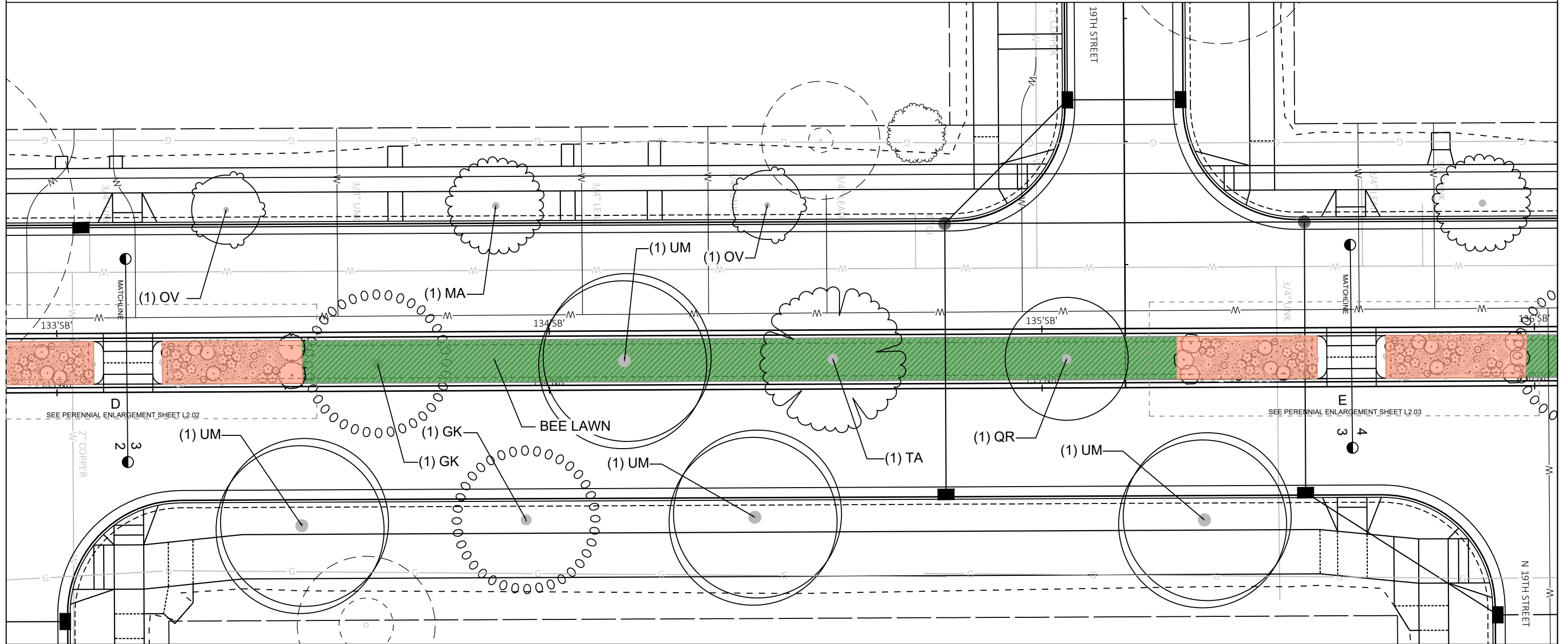
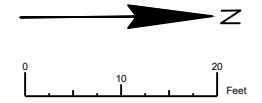


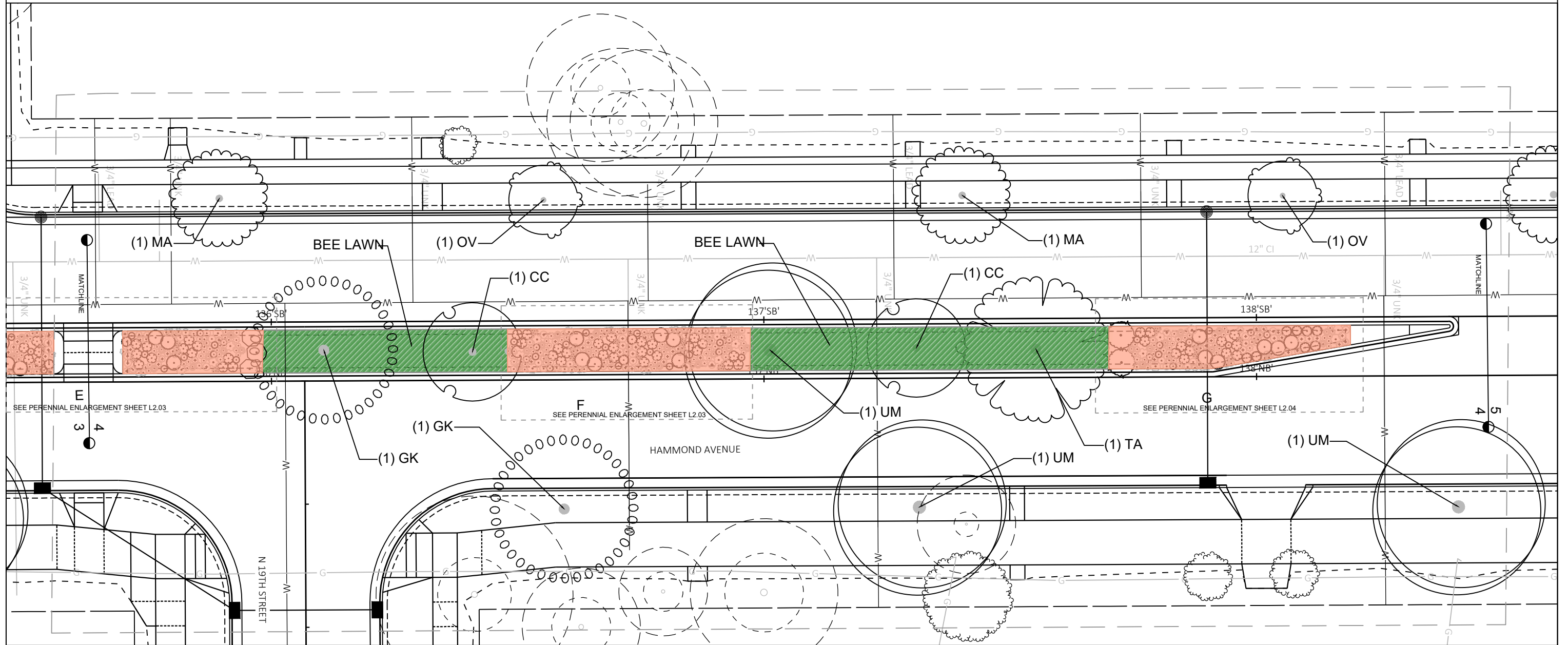
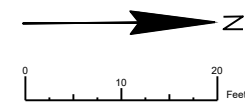


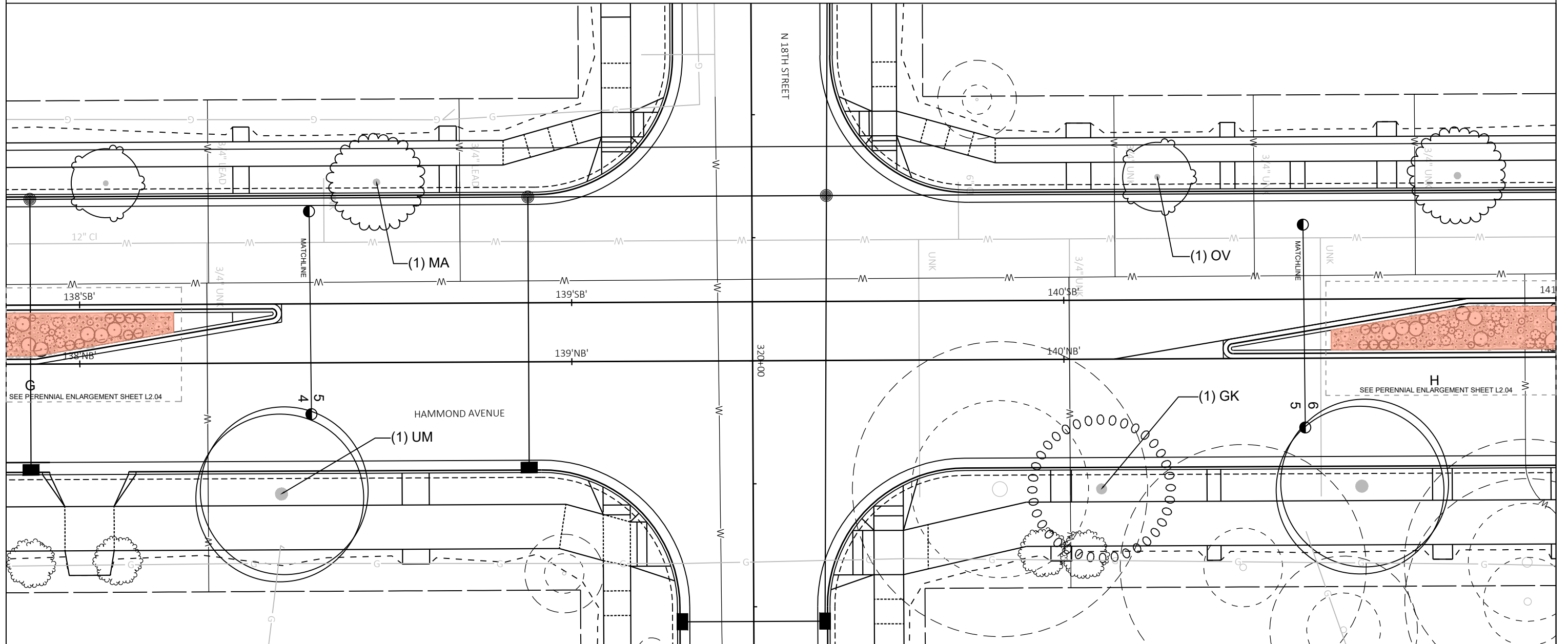
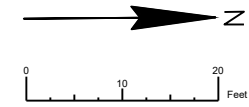


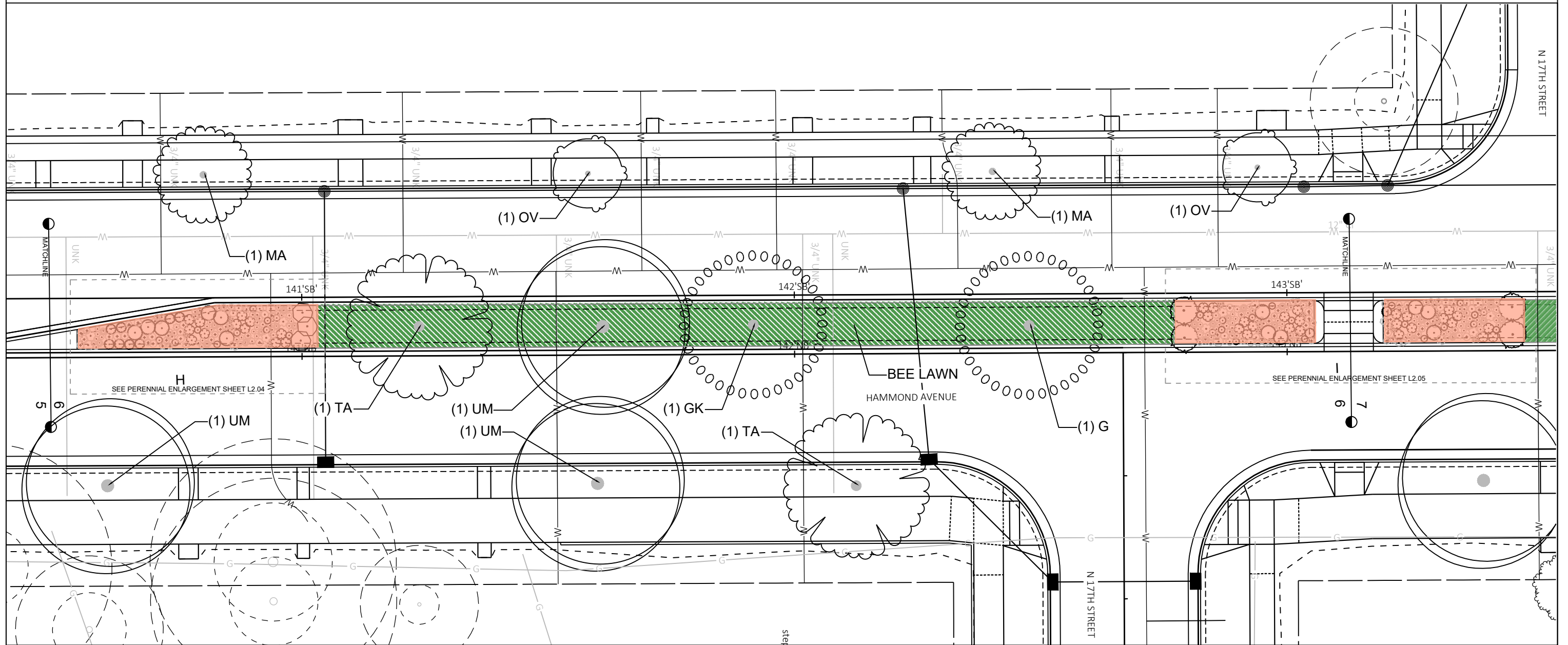
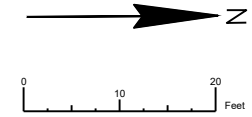


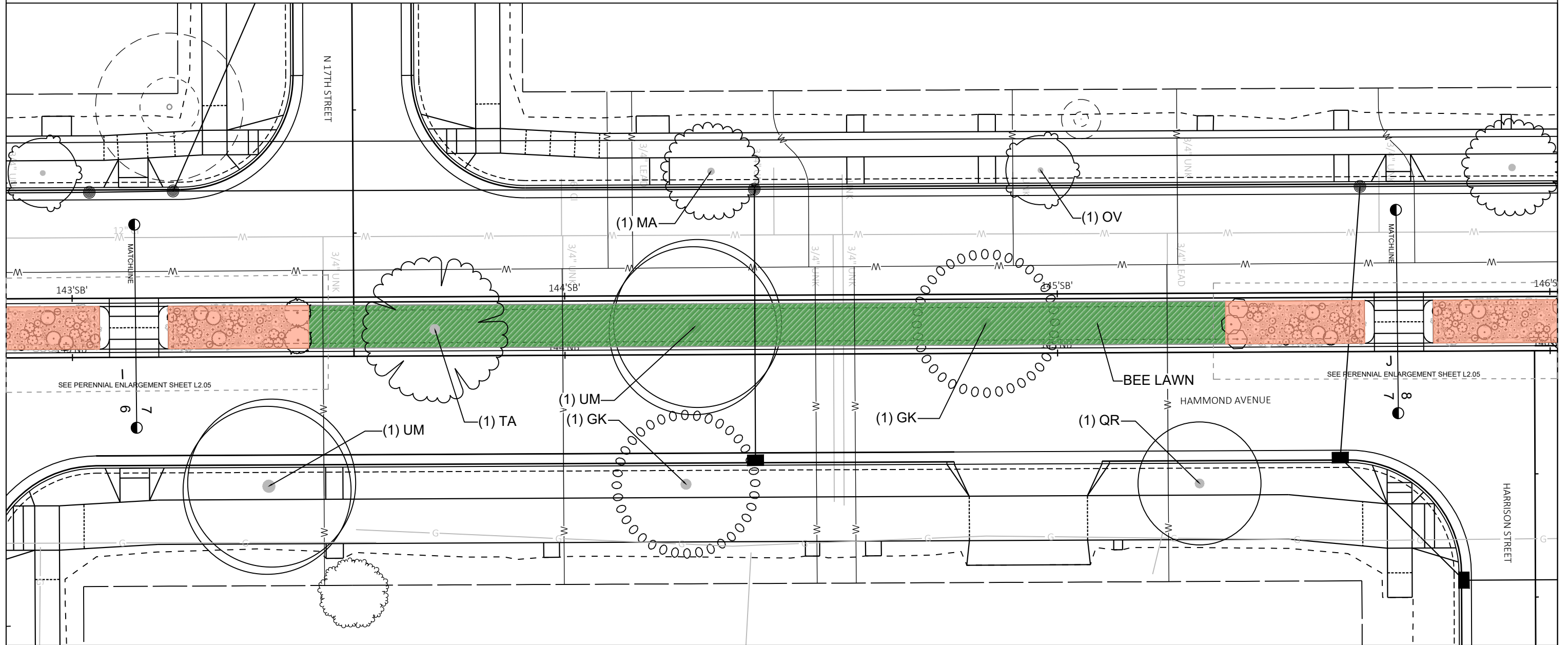
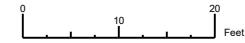
PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	LANDSCAPING PLAN	SHEET	Page 31 of 27	E
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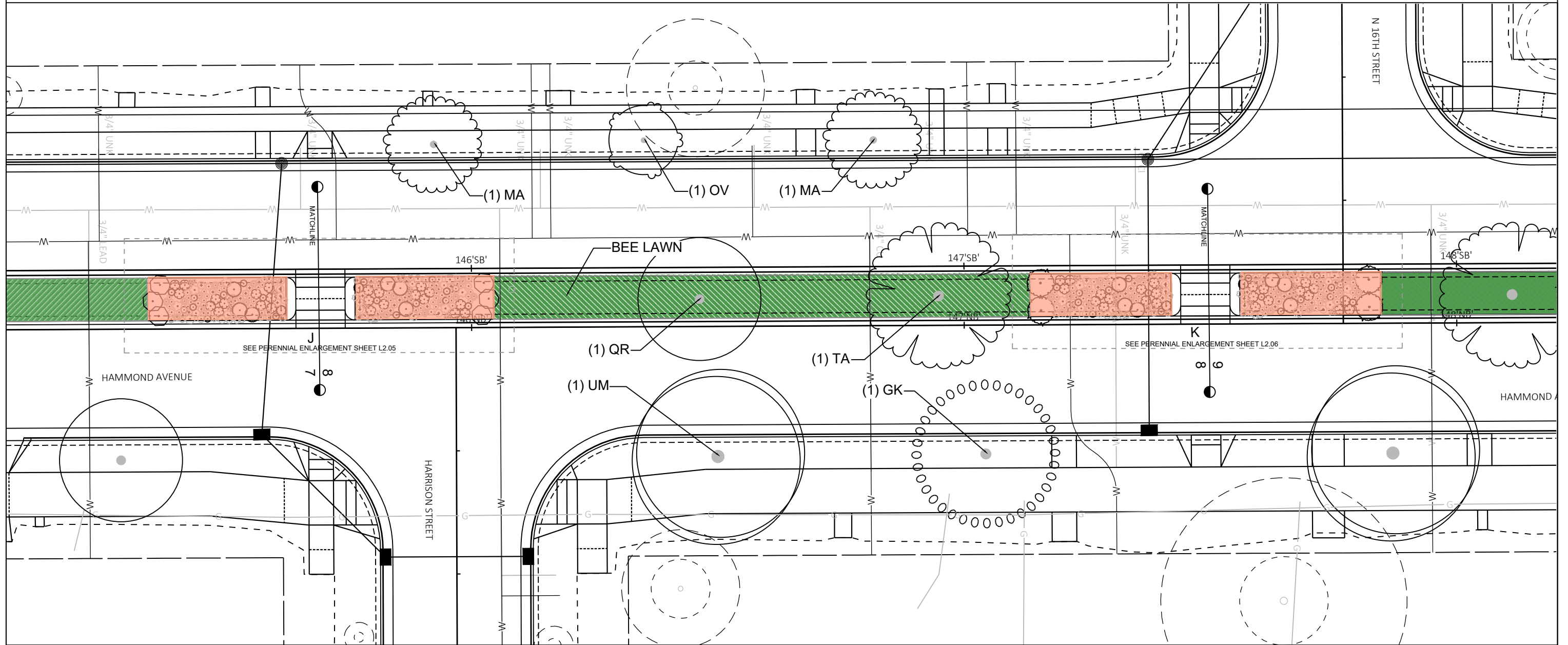
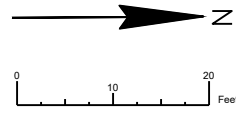


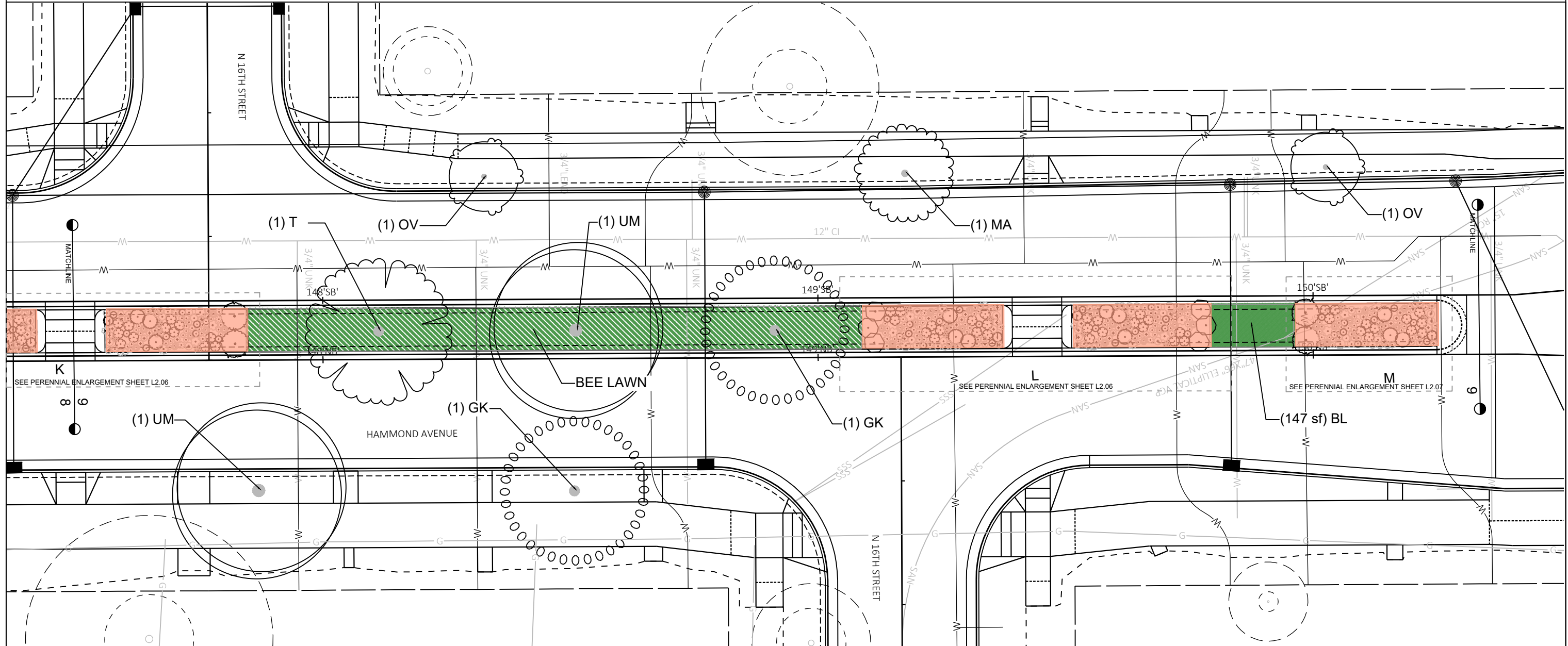
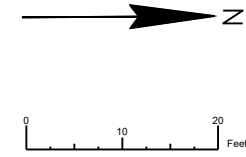


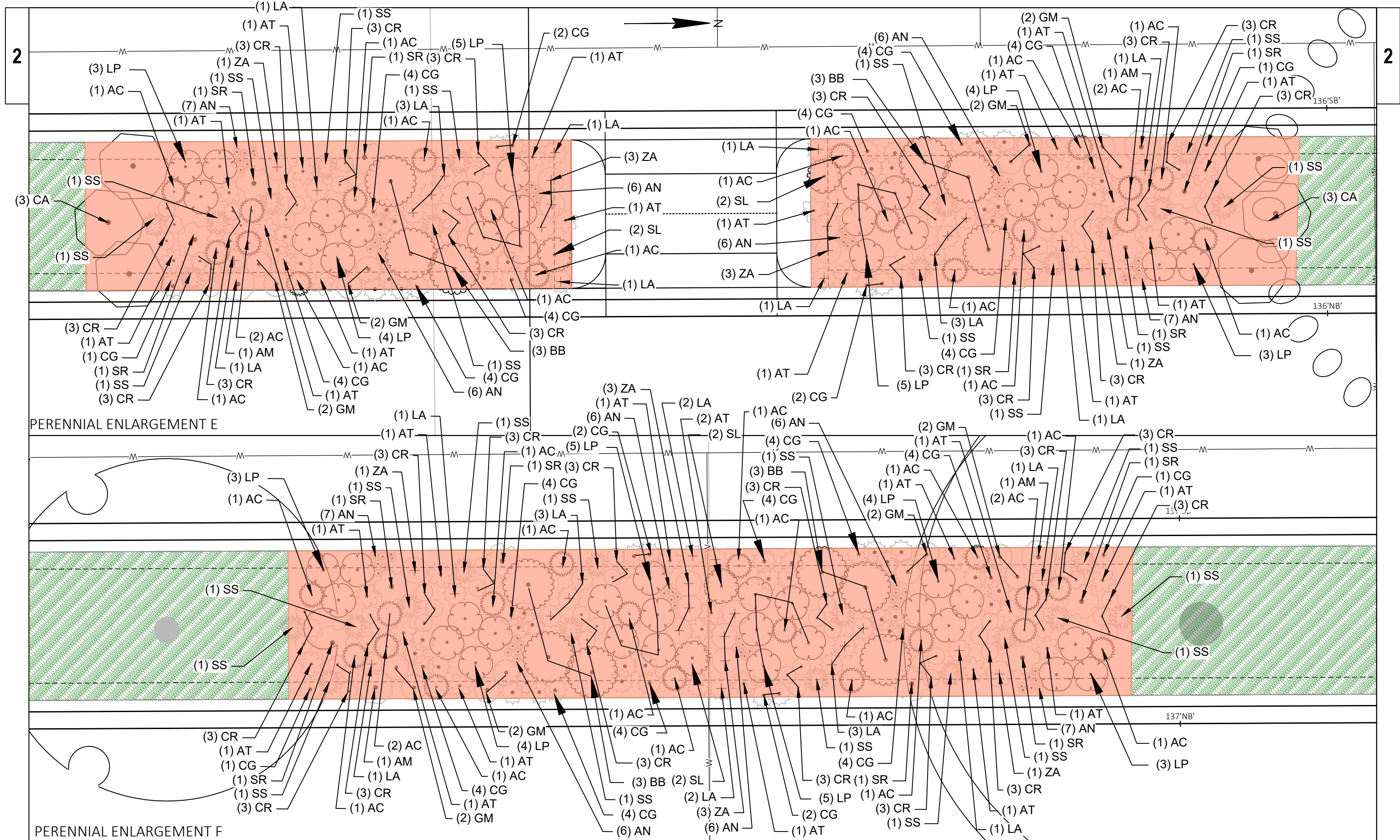


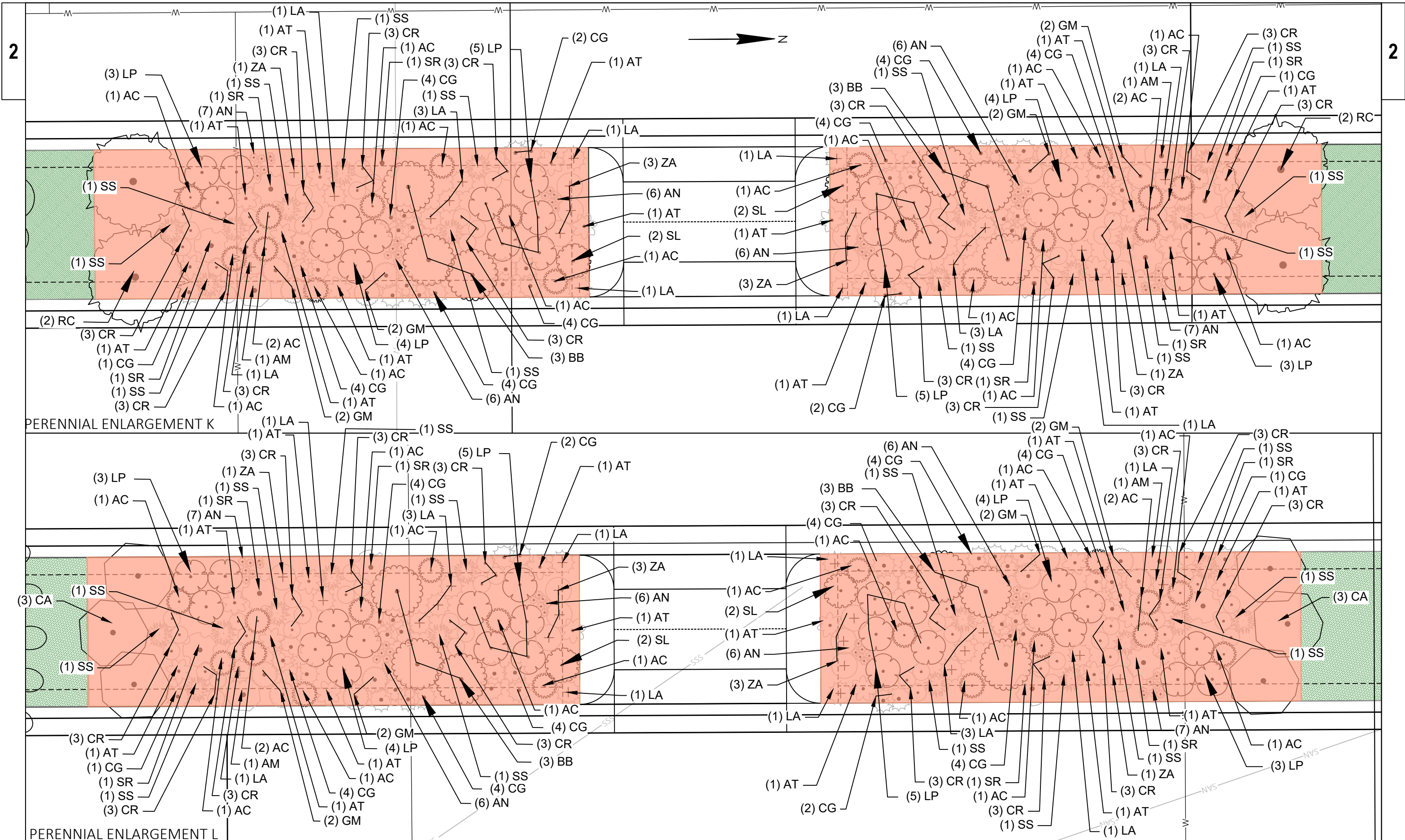


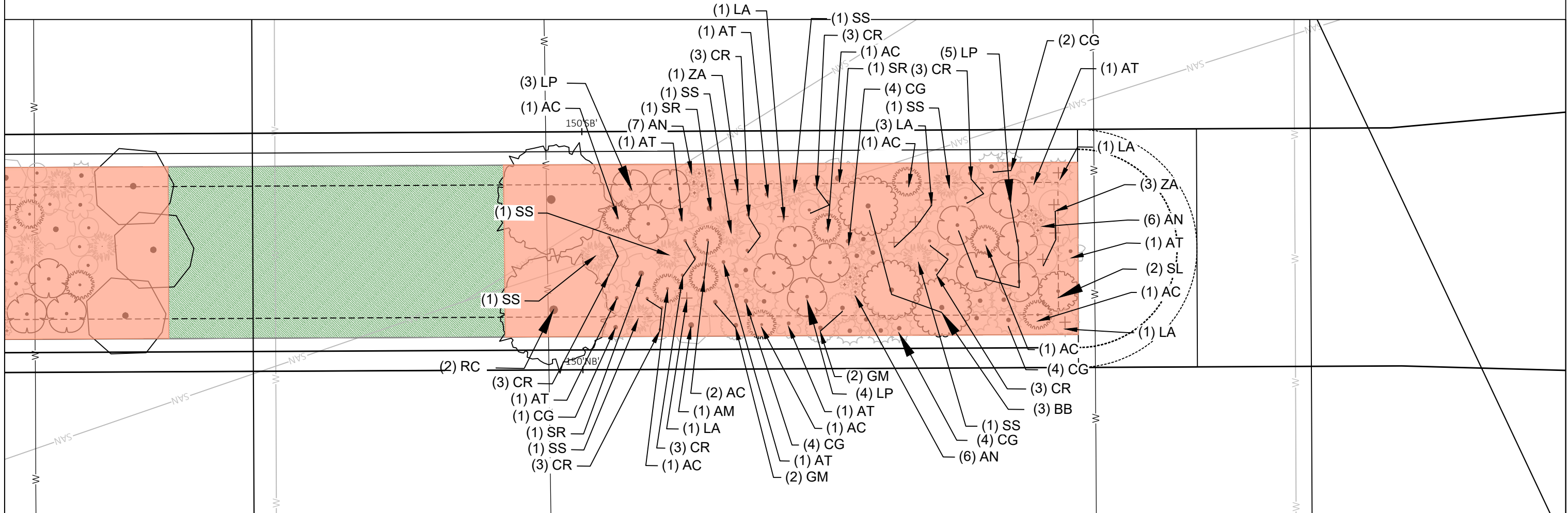
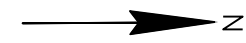










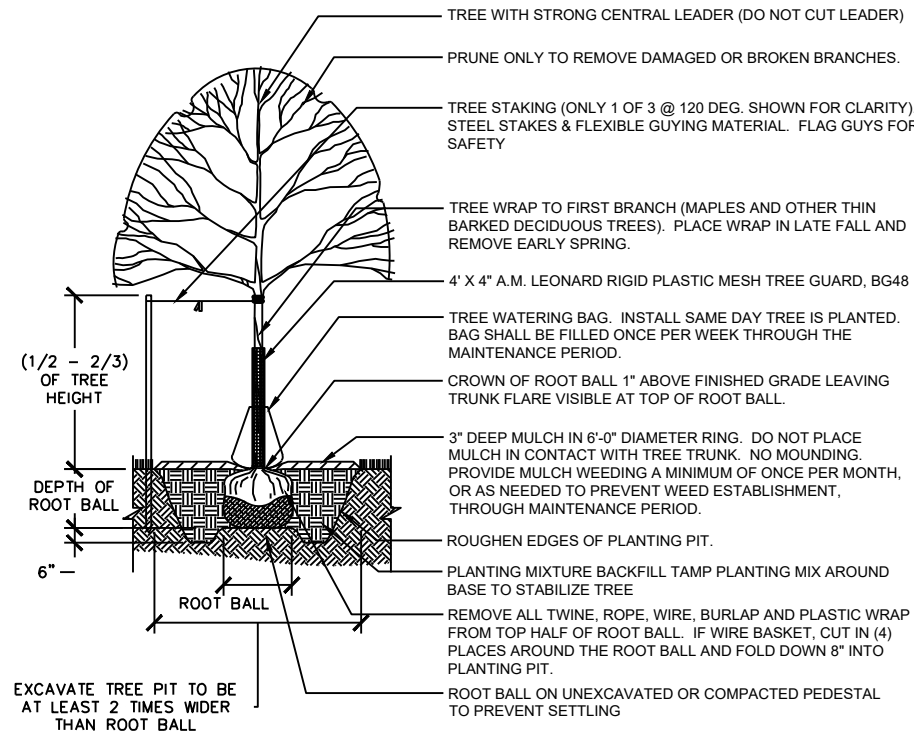


PERENNIAL ENLARGEMENT M

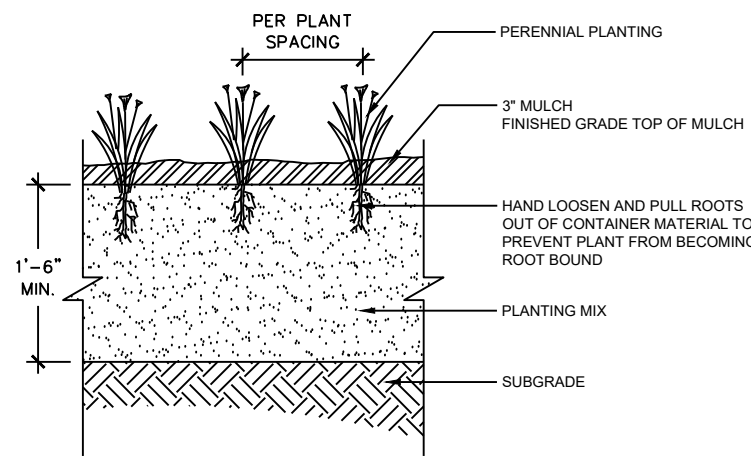
PLANTING NOTES

- EXISTING TREES FOUND ON SITE SHALL BE PROTECTED AND SAVED UNLESS NOTED TO BE REMOVED OR ARE LOCATED IN AN AREA TO BE GRADED. QUESTIONS REGARDING EXISTING PLANT MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND ENGINEER PRIOR TO REMOVAL. REFER TO SPECIAL PROVISION ITEM SPV.0060.06 'TREE PLANTING, RESERVATION, AND PROTECTION' FOR FURTHER GUIDANCE.
- LANDSCAPE WORK TO COMPLY WITH WISCONSIN DOT STANDARD SPECIFICATION SECTIONS:
 - 625 - TOPSOIL AND SALVAGED TOPSOIL
 - 627 - MULCHING
 - 629 - FERTILIZER AND AGRICULTURAL LIMESTONE
 - 630 - SEEDING
 - 632 - FURNISHING AND PLANTING PLANT MATERIALS.
- THE LAYOUT OF ALL PLANTING BEDS AND INDIVIDUAL TREES SHALL BE STAKED BY THE CONTRACTOR IN ADVANCE OF INSTALLATION. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. THE LANDSCAPE ARCHITECT WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAKE MINOR ADJUSTMENTS AS NECESSARY.
- THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING THE PLANT MATERIAL QUANTITIES REQUIRED BY THE LANDSCAPE PLANS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- SALVAGE TOPSOIL FROM THE EARTHWORK AREAS AS APPROPRIATE AND/OR AS DIRECTED BY LANDSCAPE ARCHITECT AND STOCKPILE FOR REUSE IN LOCATION APPROVED BY OWNER.
- AREAS UNDER PLANTING BEDS SHALL NOT CONTAIN COMPACTED AGGREGATE TO ALLOW FOR PROPER DRAINAGE AND GROWTH OF PLANT MATERIAL. REMOVE AGGREGATE AND PERFORM SUB-SOILING AS NECESSARY TO OBTAIN LOOSE, FREE DRAINING SUB-GRADE BELOW PLANTING BEDS. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN ALL AREAS.
- CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN ALL AREAS.
- ALL SEED AREAS SHALL RECEIVE A MINIMUM OF 6" DEPTH OF TOPSOIL.
- ALL PLANTING BEDS SHALL RECEIVE 18" DEPTH OF PREPARED SOIL.
- SEED AND/OR PLUG PLANTING SHALL OCCUR IN DESIGNATED PLANTING WINDOWS, SEE SPECIFICATIONS.
- PAINT OR STAKE LIMITS OF SEEDING FOR REVIEW BY LANDSCAPE ARCHITECT & OWNER PRIOR TO SEEDING.
- NEW SEEDED AREAS TO BE TREATED WITH HERBICIDE TO KILL ALL EXISTING GROUND COVER. THERE SHALL BE A MINIMUM OF TWO (2) APPLICATIONS SEPARATED BY 10 DAYS. IF ALL EXISTING GROUND COVER VEGETATION IS NOT KILLED WITHIN 10 DAYS OF 2ND APPLICATION, A 3RD APPLICATION IS REQUIRED.
- ALL DISTURBED AREAS OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- ALL PLANTING BEDS AND PLANTED TREES SHALL BE MULCHED WITH 3" DEEP SHREDDED HARDWOOD MULCH PER PLANTING DETAILS. MULCH SHALL BE CONSIDERED INCIDENTAL TO PLANT MATERIALS.
- NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL BY THE LANDSCAPE ARCHITECT. ALL PLANT MATERIAL AND SEED SHALL BE PROVIDED FROM A NURSERY (WITHIN 200 MILES) WITH A SIMILAR PLANT HARDINESS ZONE AS PROJECT LOCATION.

- CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS FOR A PERIOD OF TWO-YEARS FROM SUBSTANTIAL COMPLETION. SEE WIS DOT STANDARD SPECIFICATION 632 - 'FURNISHING AND PLANTING PLANT MATERIALS' FOR FURTHER GUIDANCE
- IF CARE SPECIALIST FAILS TO PERFORM ANY OF THE REQUIRED CARE CYCLES AS SPECIFIED IN WIS DOT SECTION 632.3.19.1, THE CITY WILL ASSESS DAILY DAMAGES IN AMOUNT INDICATED IN 'LANDSCAPE PLANTING SURVEILLANCE AND CARE CYLES' CONTRACT SPECIAL PROVISION. DAMAGES WILL BE ASSESSED FOR EACH DAY THE REQUIREMENT OF THE CARE CYCLE REMAINS INCOMPLETE.



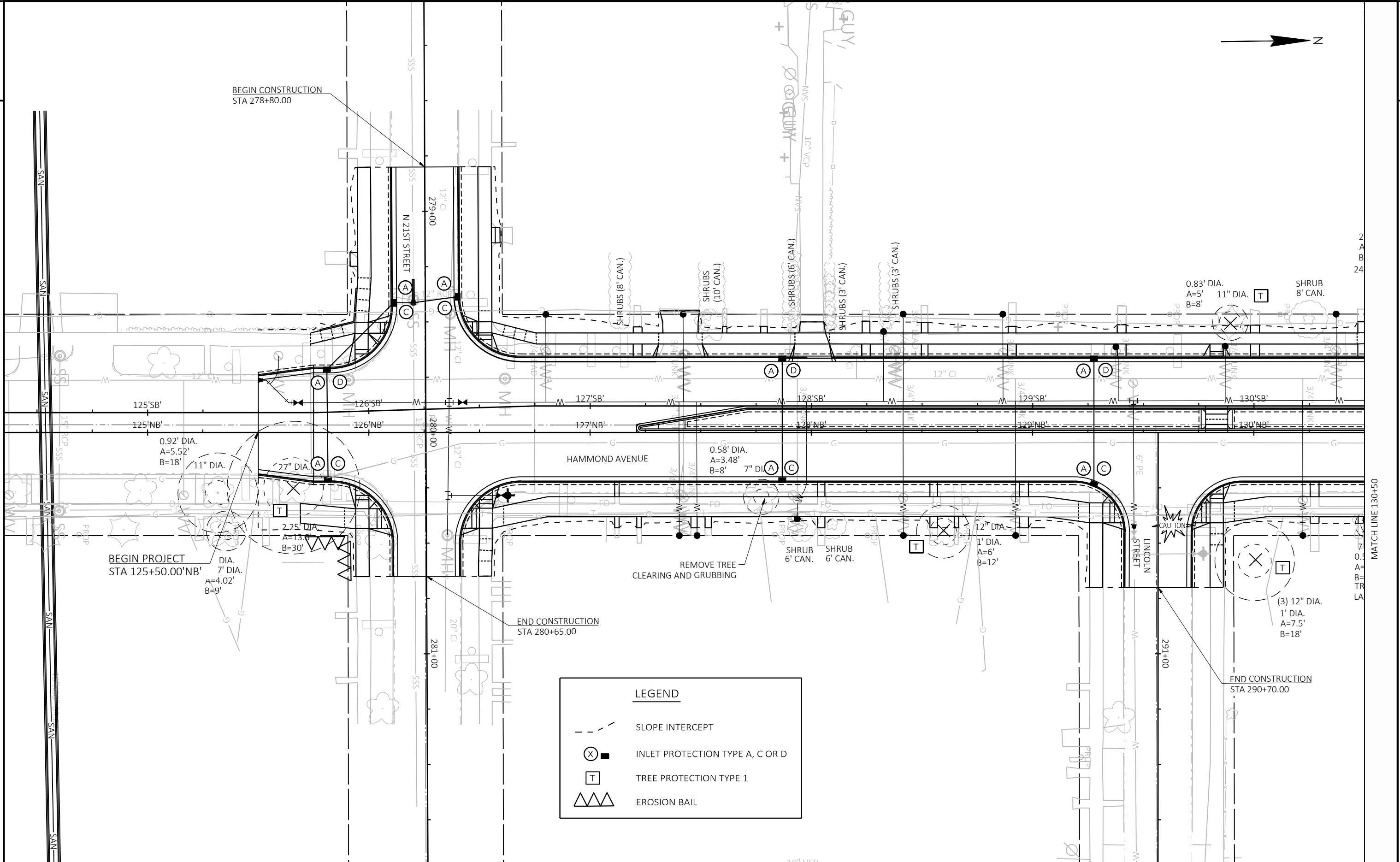
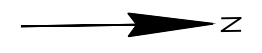
1 TREE PLANTING
1/4" = 1'-0" 329343-01



2 PERENNIAL PLANTING DETAIL
1" = 1'-0" 3293-01

PLANT_SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE
TREES				
	CC	3	Carpinus caroliniana / American Hornbeam	2.5" CAL
	GK	18	Gymnocladus dioica / Kentucky Coffeetree	2.5" CAL
	MA	14	Malus x 'Jarmin' / Marilee® Crabapple	2.5" CAL
	OV	14	Ostrya virginiana / American Hophornbeam	2.5" CAL
	QR	5	Quercus robur x bicolor 'Long' / Regal Prince® Oak	2.5" CAL
	TA	8	Tilia americana 'Boulevard' / Boulevard American Linden	2.5" CAL
	UM	19	Ulmus x 'Morton' / Accolade™ Elm	2.5" CAL
SHRUBS				
	CA	27	Ceanothus americanus / New Jersey Tea	2 gal
	RC	22	Rosa carolina / Carolina Rose	2 gal
GRASSES				
	SS	160	Schizachyrium scoparium / Little Bluestem	1 gal.
PERENNIALS				
	AN	418	Allium cernuum / Nodding Onion	1 gal.
	AM	28	Amorpha canescens / Leadplant	1 gal.
	AC	201	Aquilegia canadensis / Eastern Columbine	1 gal.
	AT	154	Asclepias tuberosa / Butterfly Milkweed	1 gal.
	BB	75	Baptisia bracteata leucophaea / Longbract Wild Indigo	1 gal.
	CR	480	Campanula rotundifolia / Harebell	1 gal.
	CG	436	Coreopsis grandiflora 'Double Sunburst' / Double Sunburst Tickseed	1 gal.
	GM	88	Geranium maculatum / Spotted Geranium	1 gal.
	LA	172	Liatris aspera / Rough Blazing Star	1 gal.
	LP	264	Lupinus perennis / Wild Lupine	1 gal.
	SR	66	Solidago rigida / Stiff Goldenrod	1 gal.
	SL	43	Symphotrichum laeve / Smooth Aster	1 gal.
	ZA	112	Zizia aurea / Golden Alexander	1 gal.
GROUND COVERS				
	BL	1,340	Bee Lawn / Deluxe Seed Mixture	seed, SY

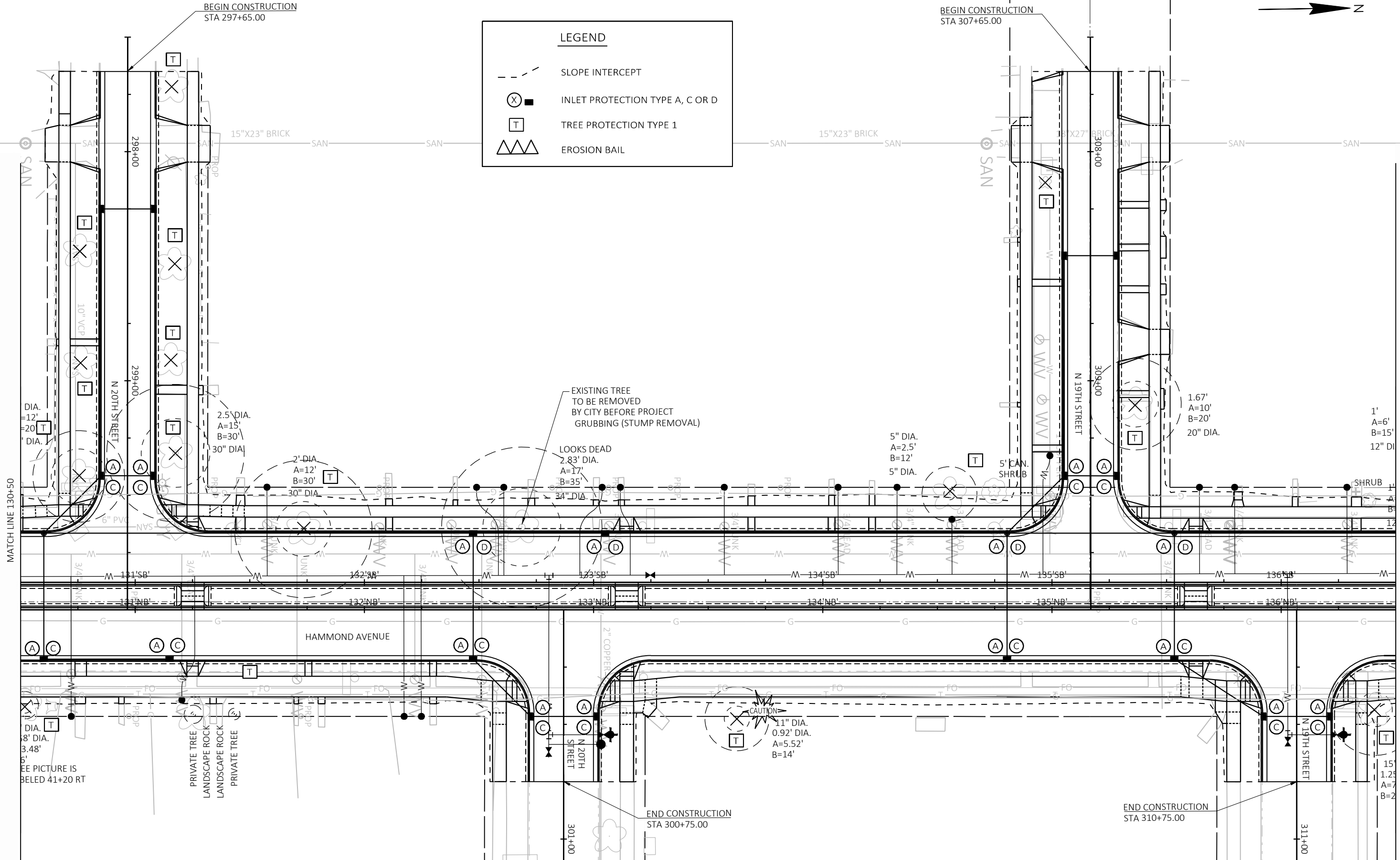


LEGEND	
	SLOPE INTERCEPT
	INLET PROTECTION TYPE A, C OR D
	TREE PROTECTION TYPE 1
	EROSION BAIL



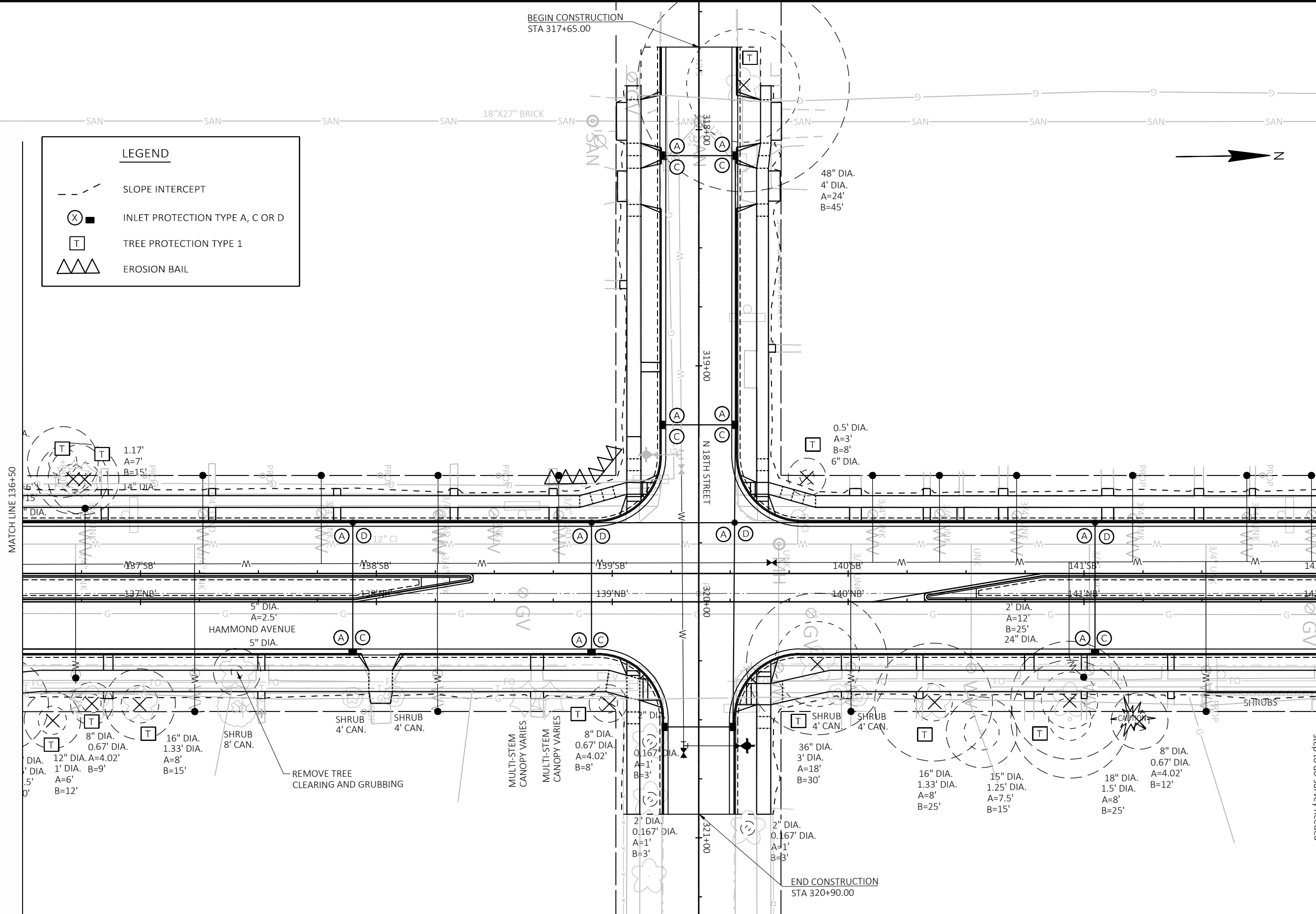
LEGEND

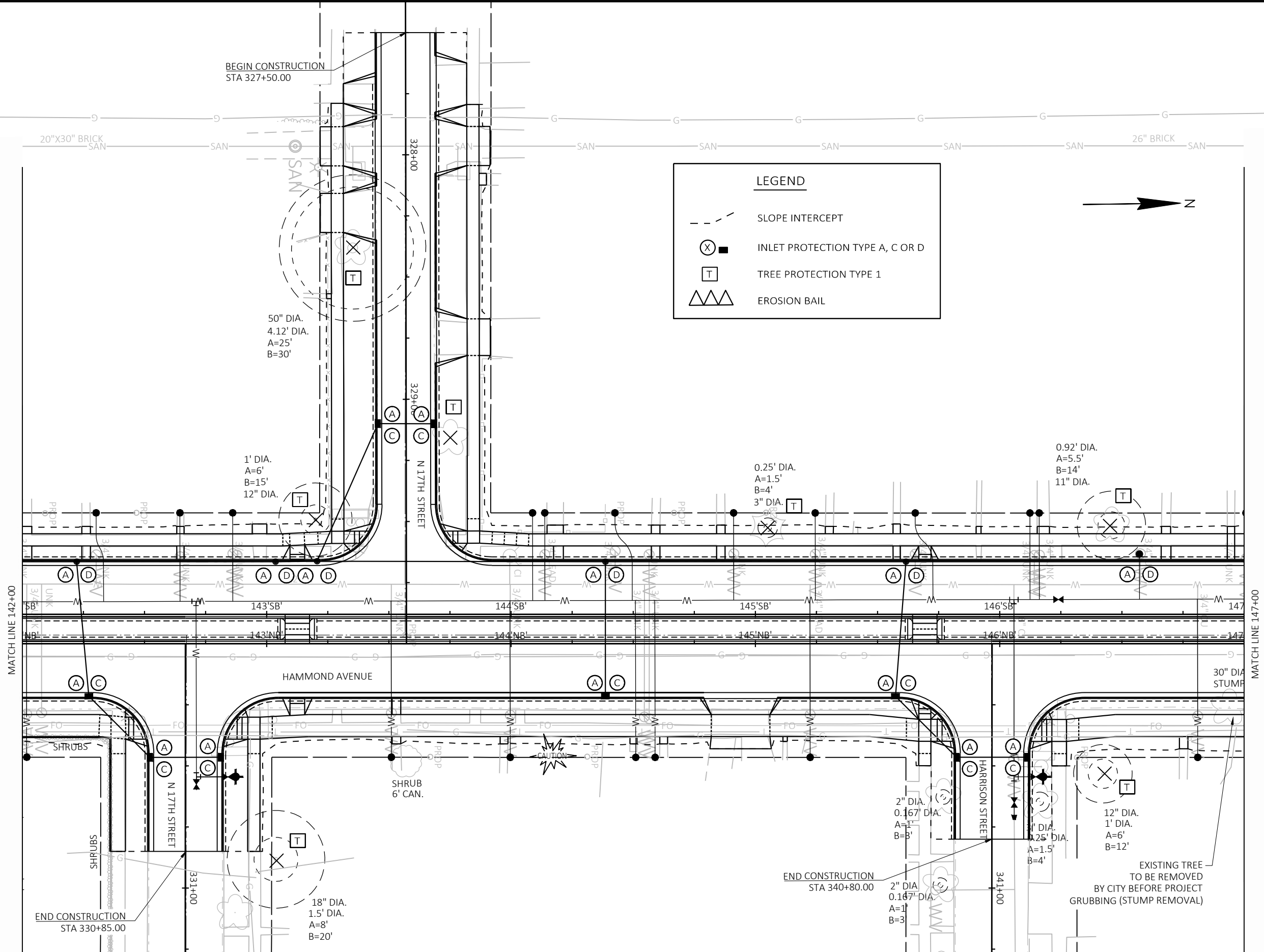
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A, C OR D
- TREE PROTECTION TYPE 1
- EROSION BAIL



LEGEND

- SLOPE INTERCEPT
- INLET PROTECTION TYPE A, C OR D
- TREE PROTECTION TYPE 1
- EROSION BAIL



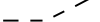





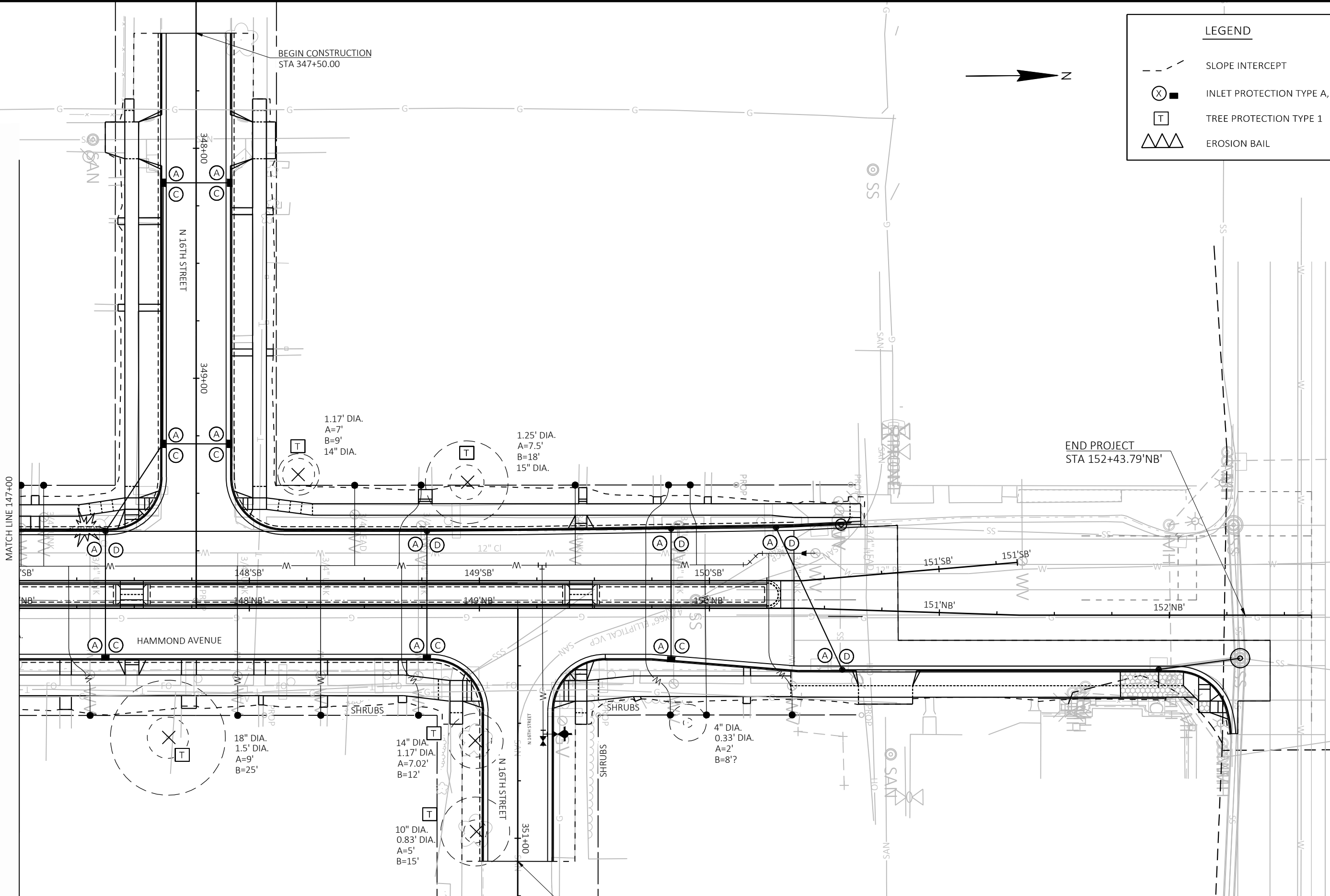
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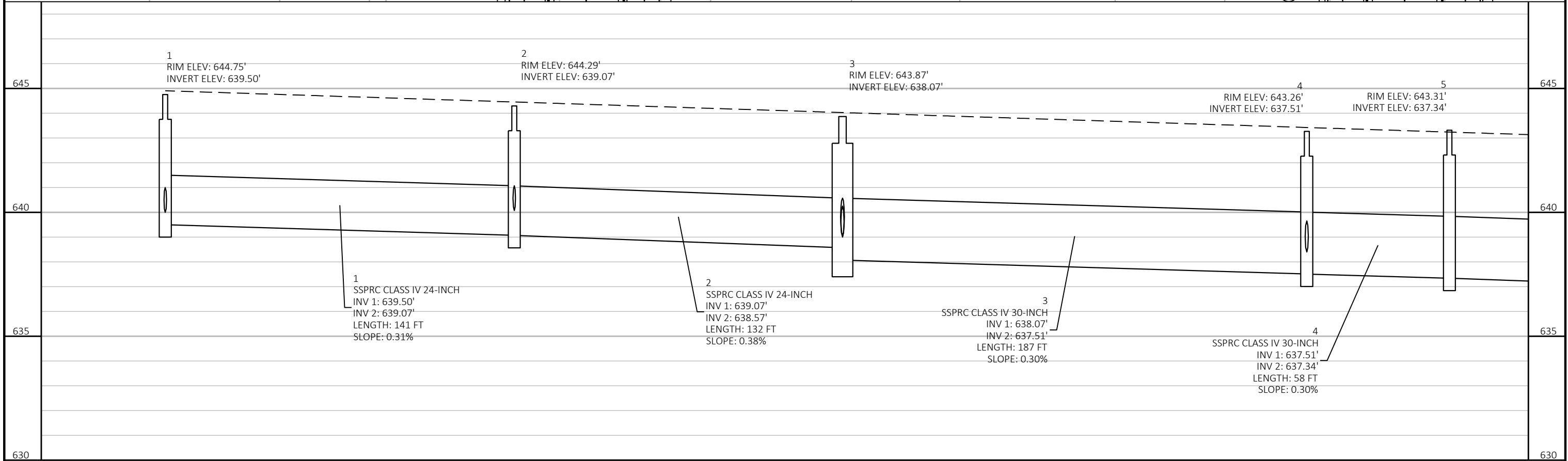
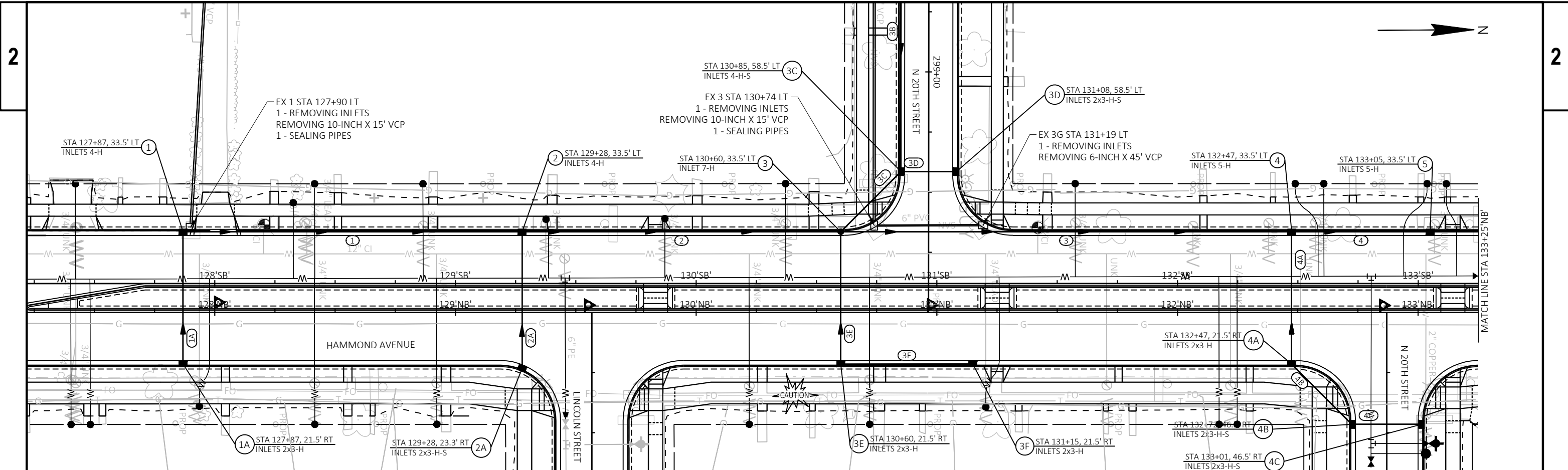
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- INLET PROTECTION TYPE A, C OR D
- TREE PROTECTION TYPE 1
- EROSION BAIL

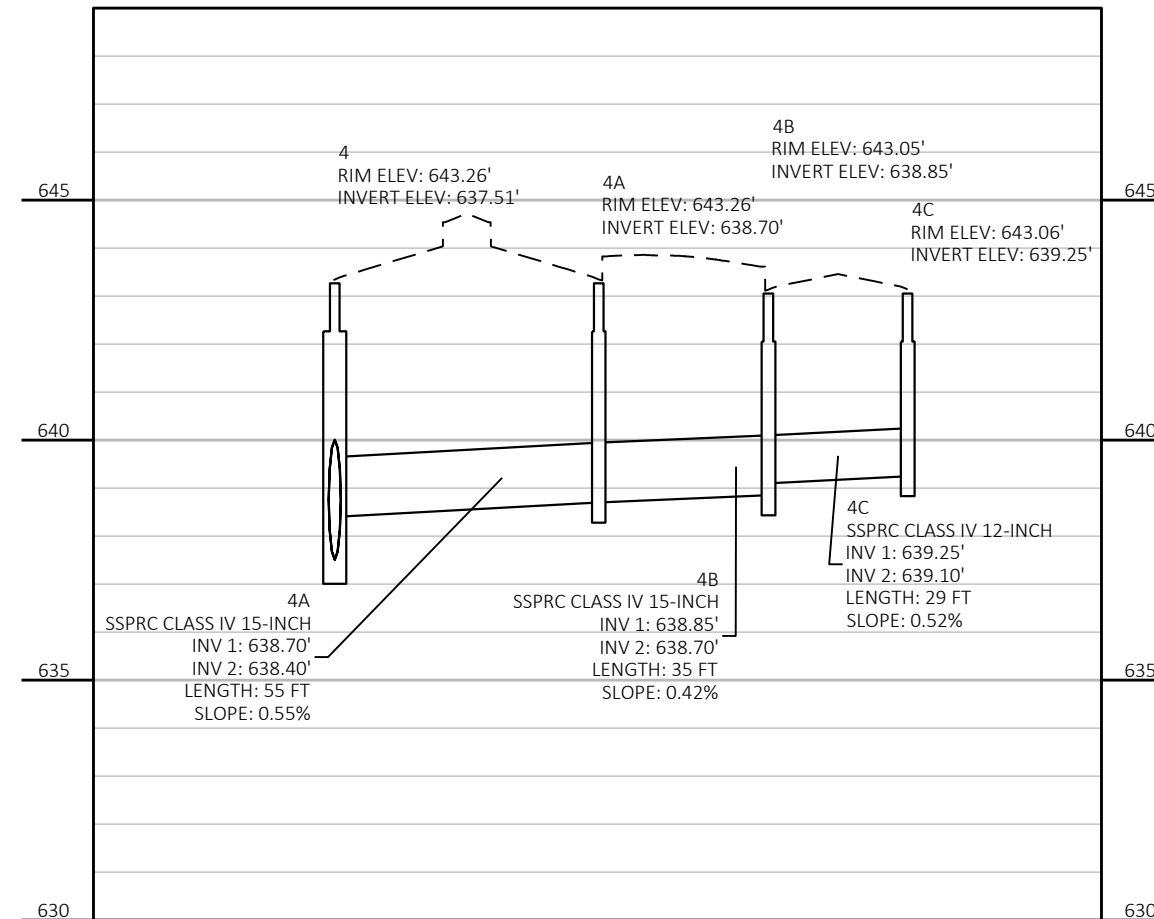
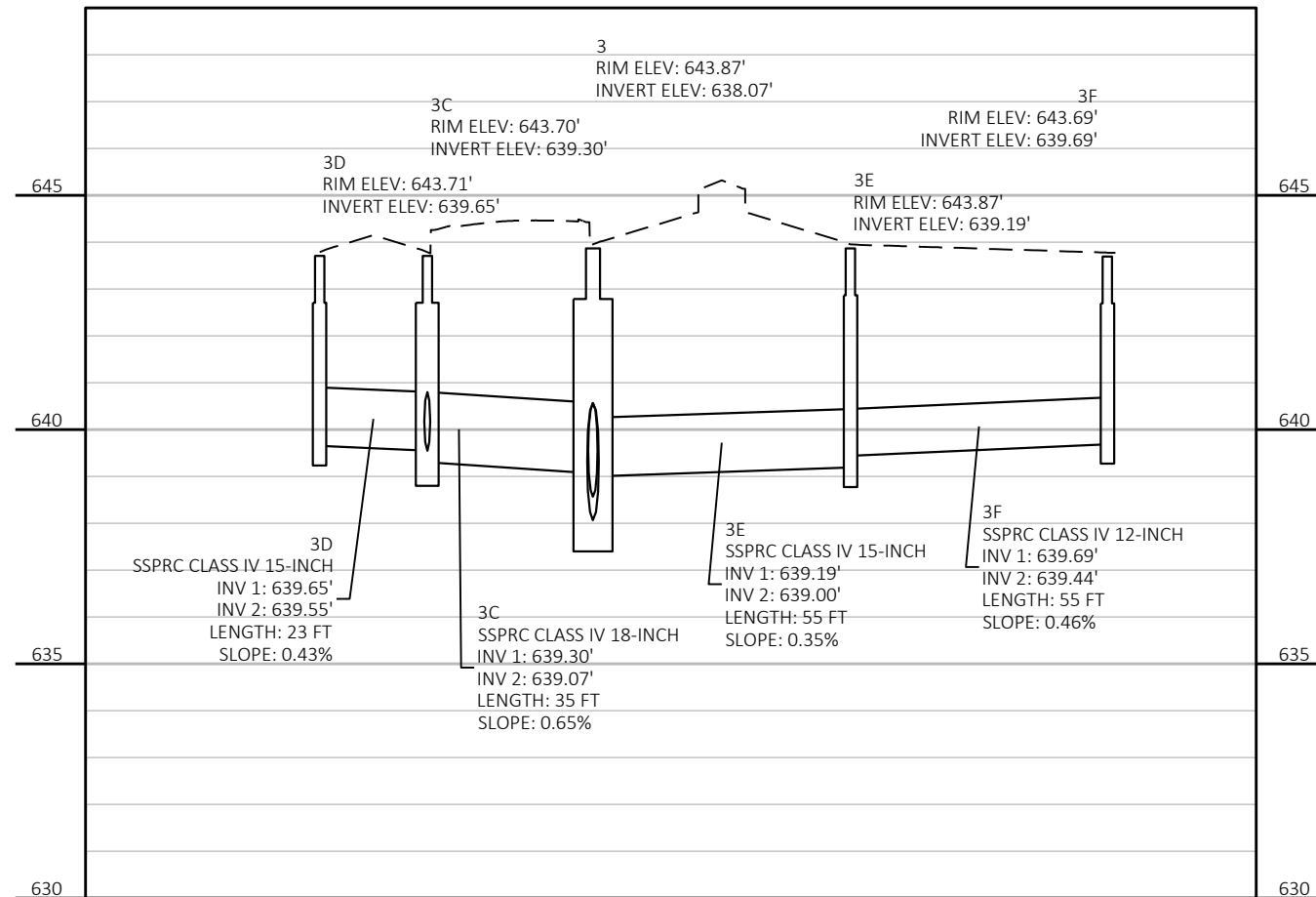
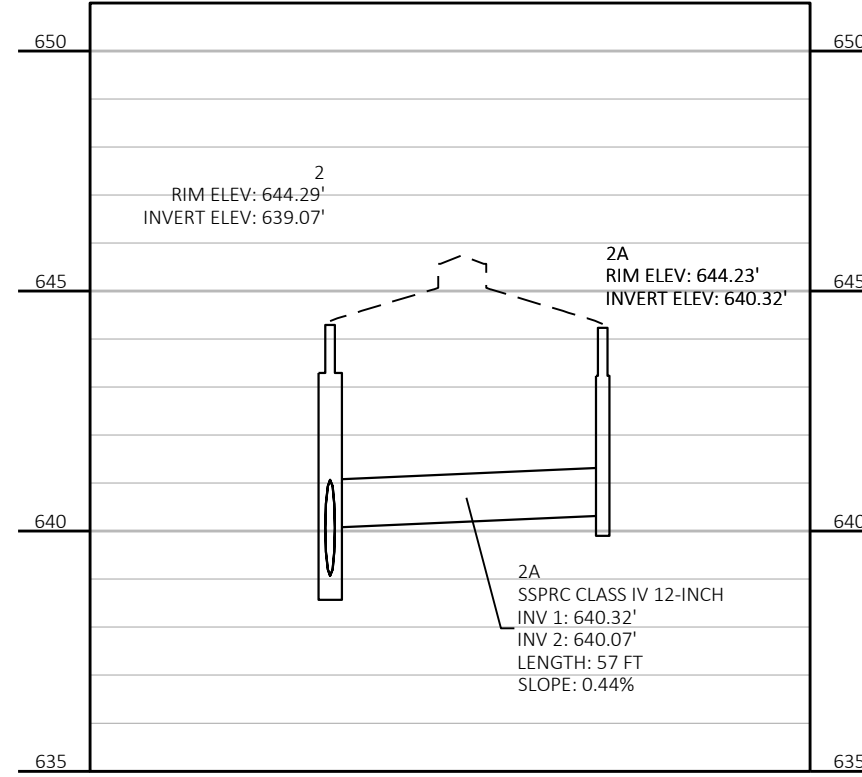
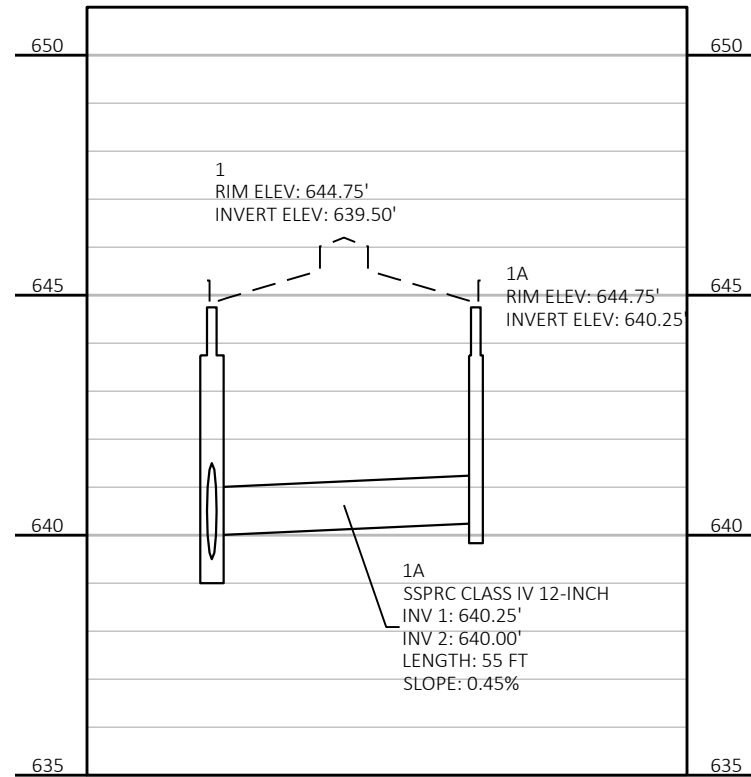


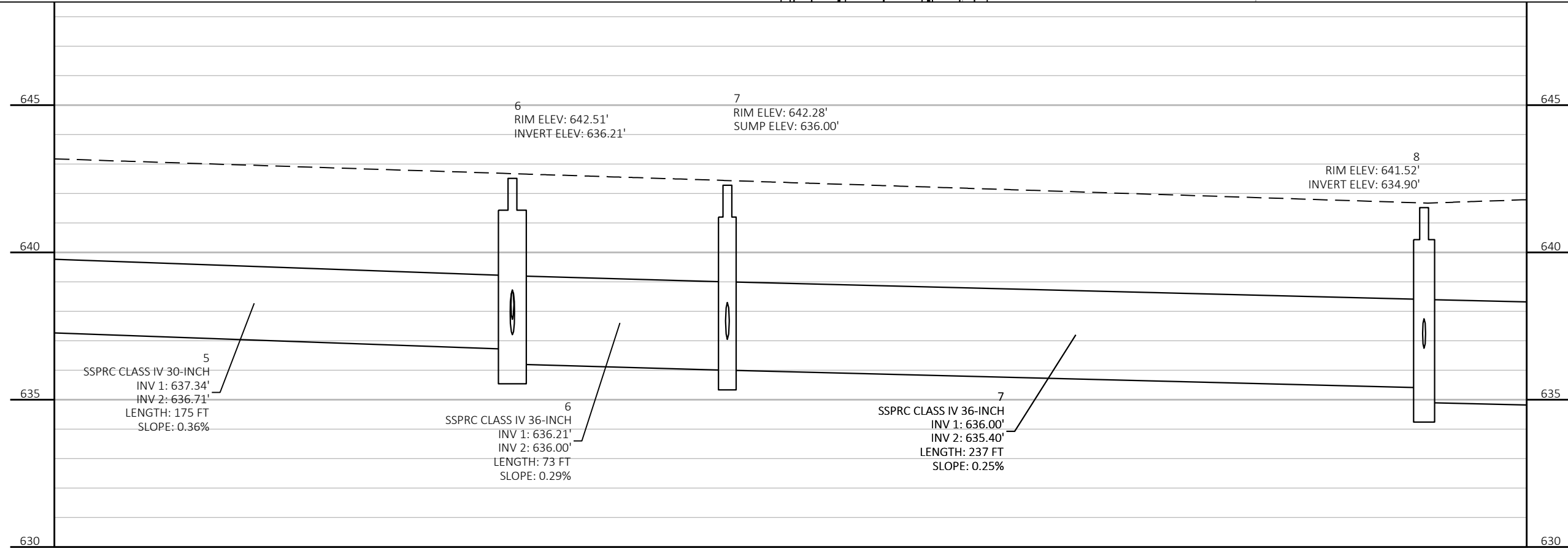
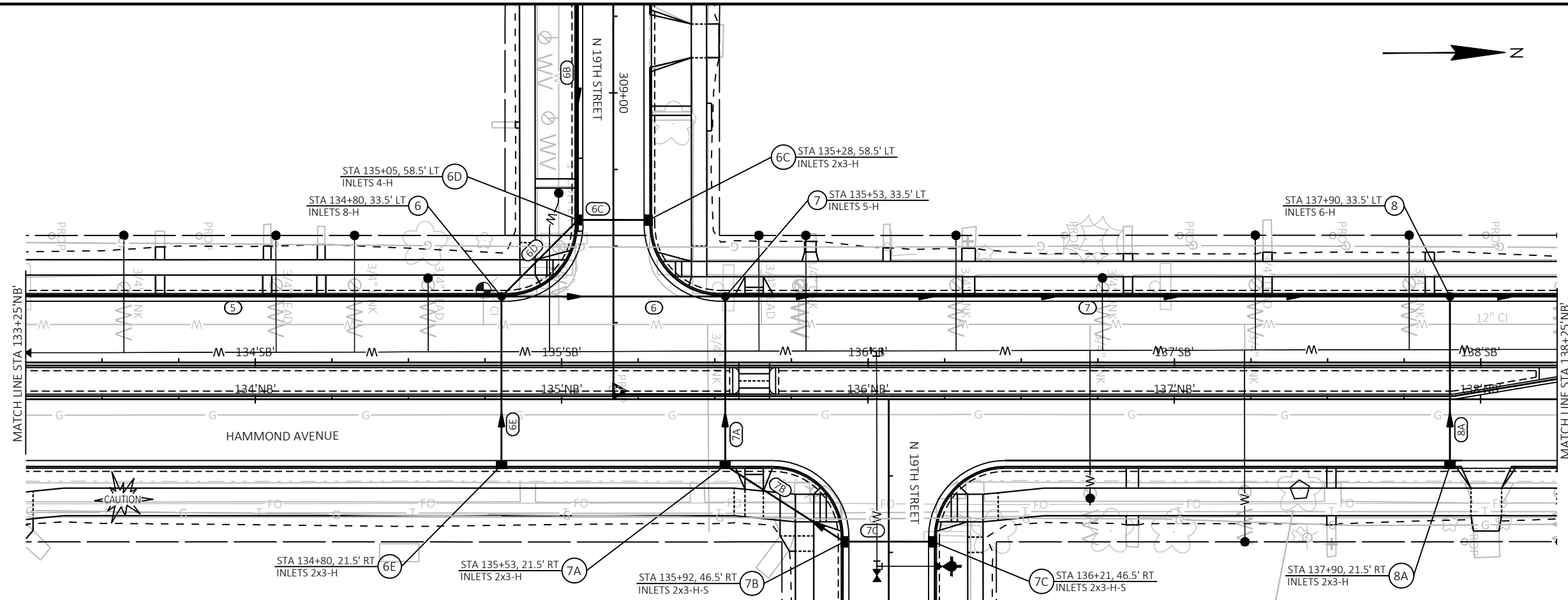
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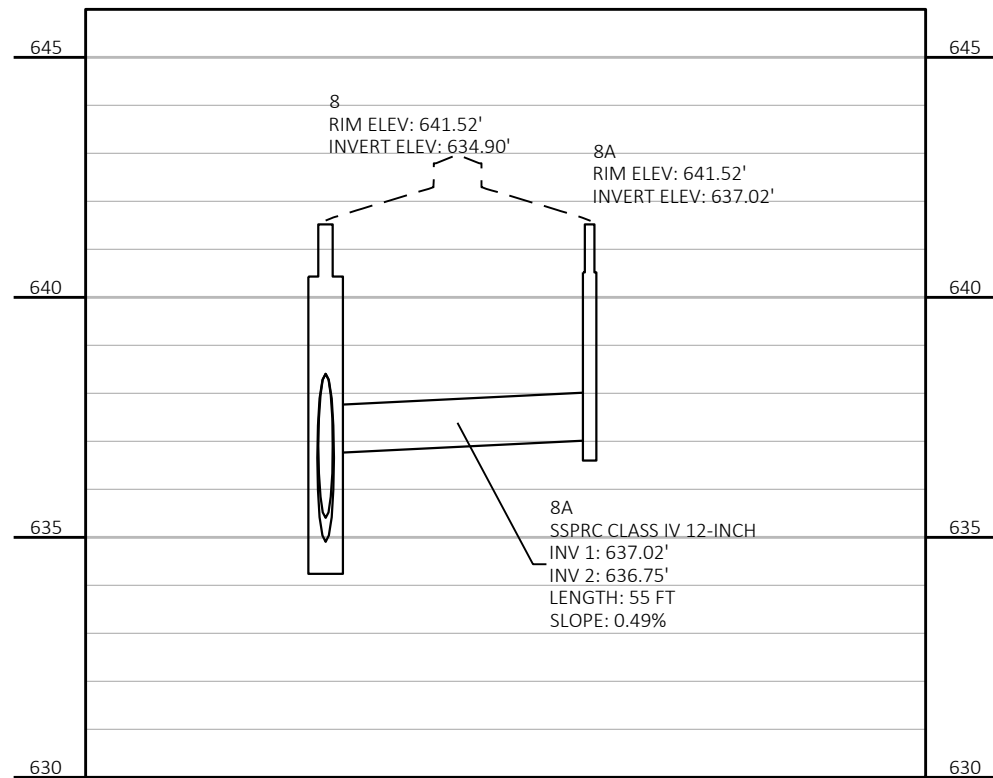
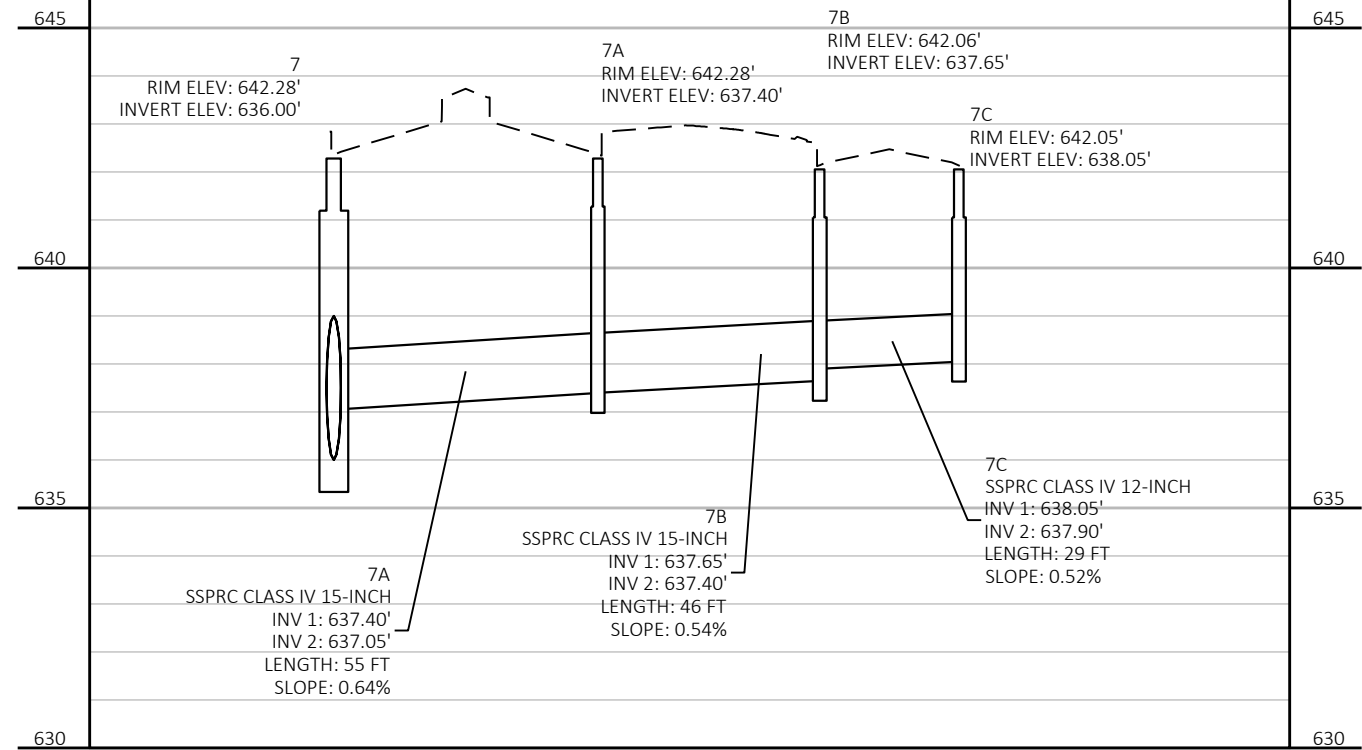
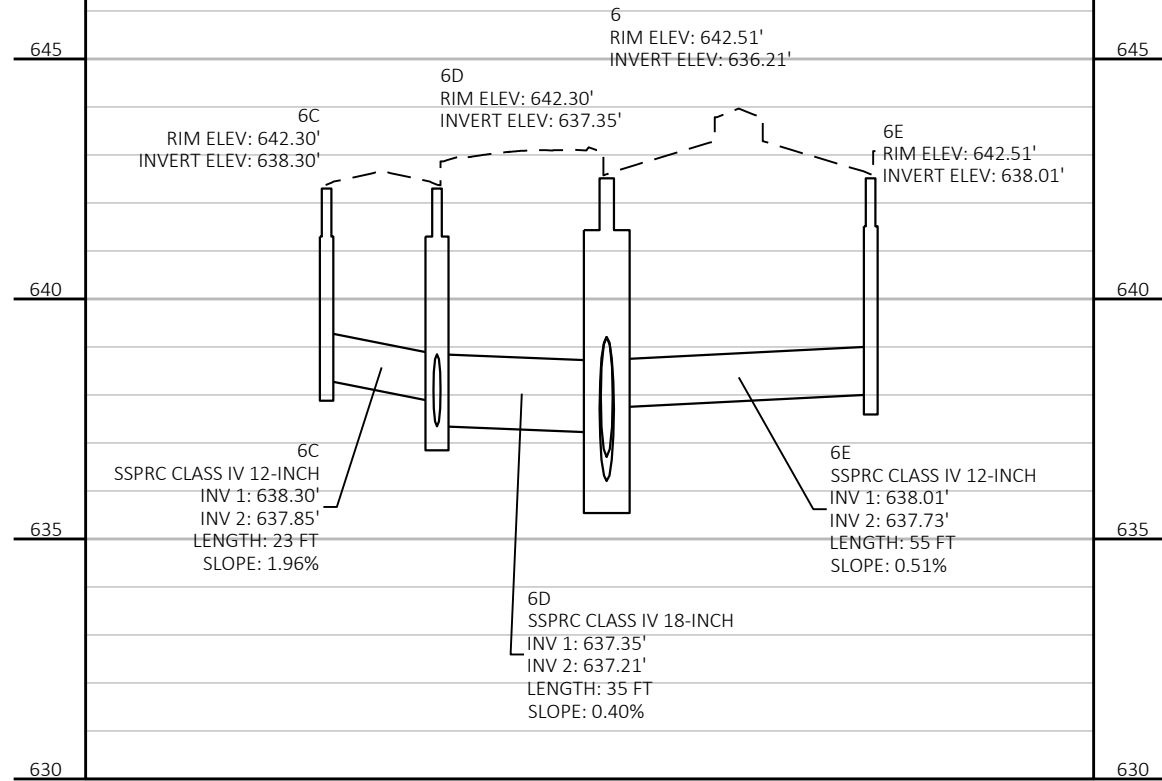
-  SLOPE INTERCEPT
-  INLET PROTECTION TYPE A, C OR D
-  TREE PROTECTION TYPE 1
-  EROSION BAIL

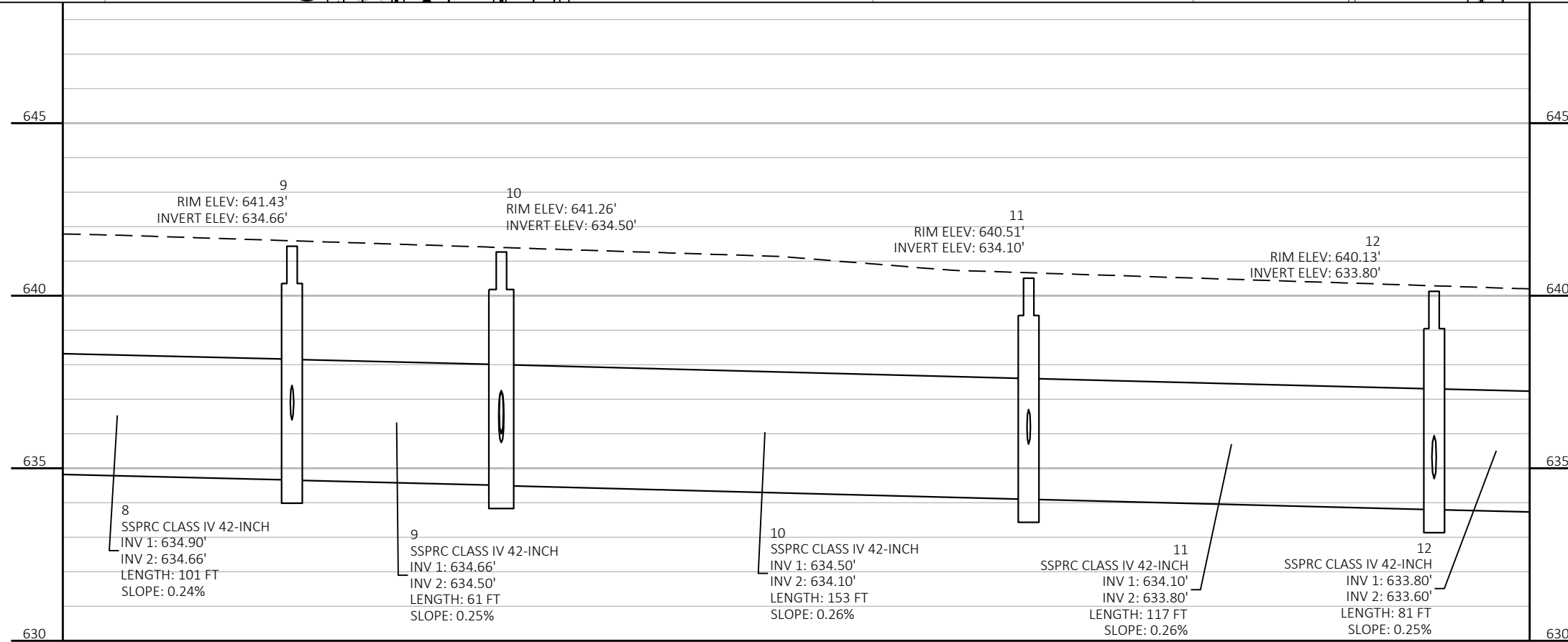
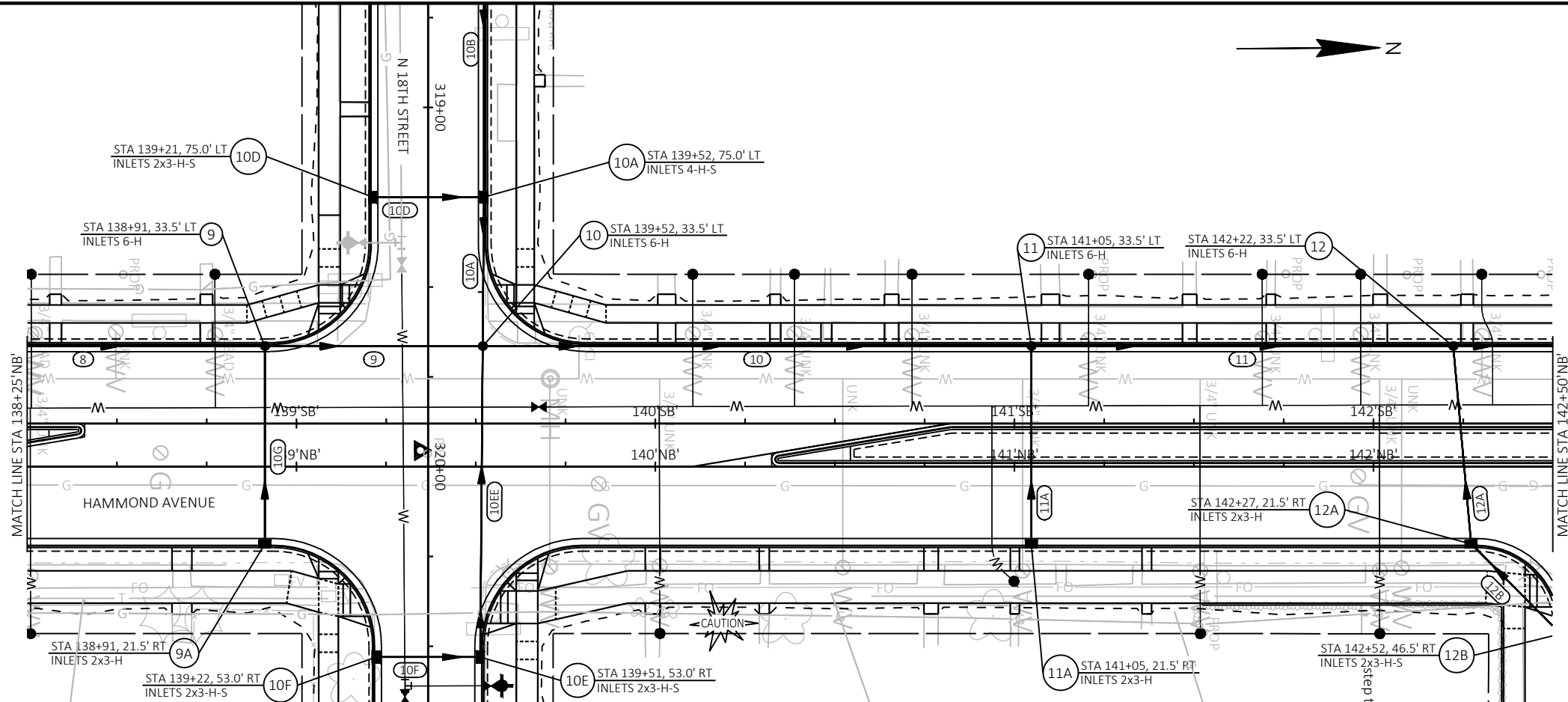


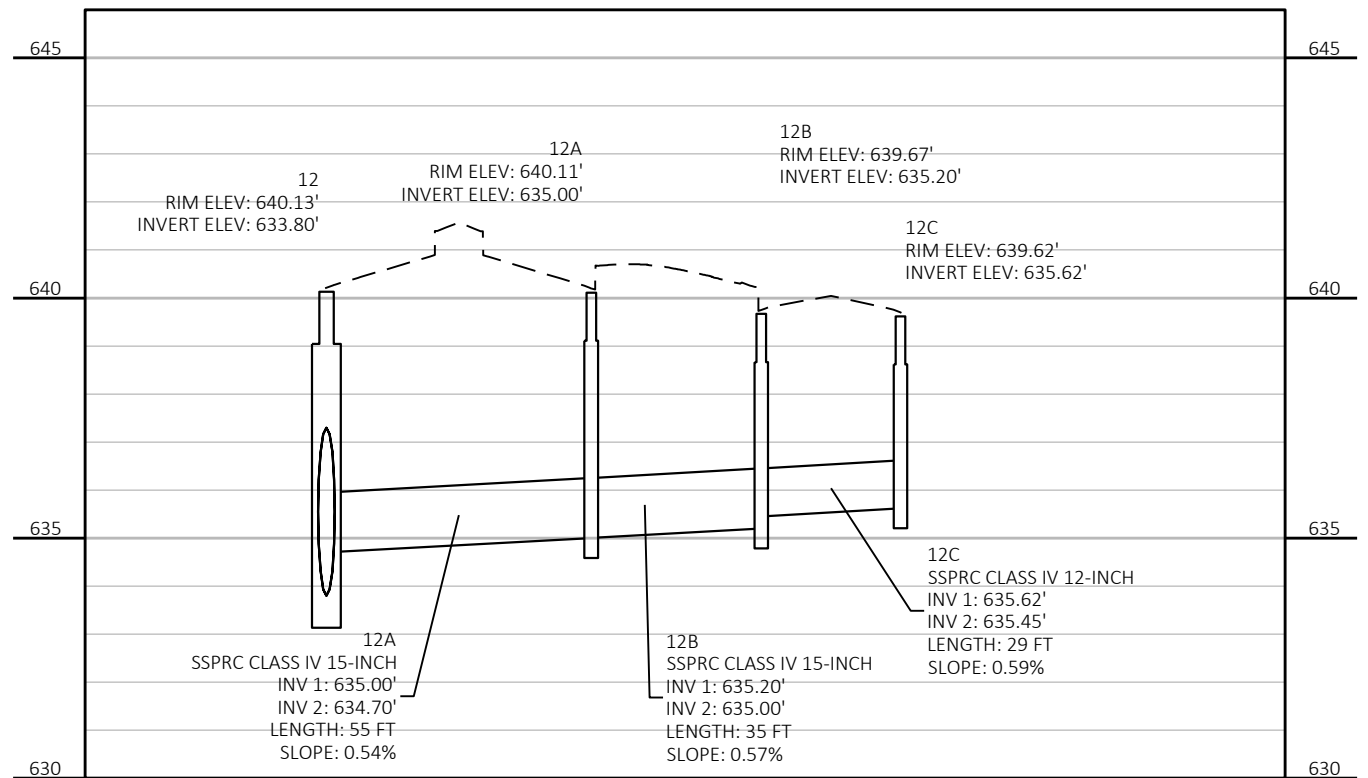
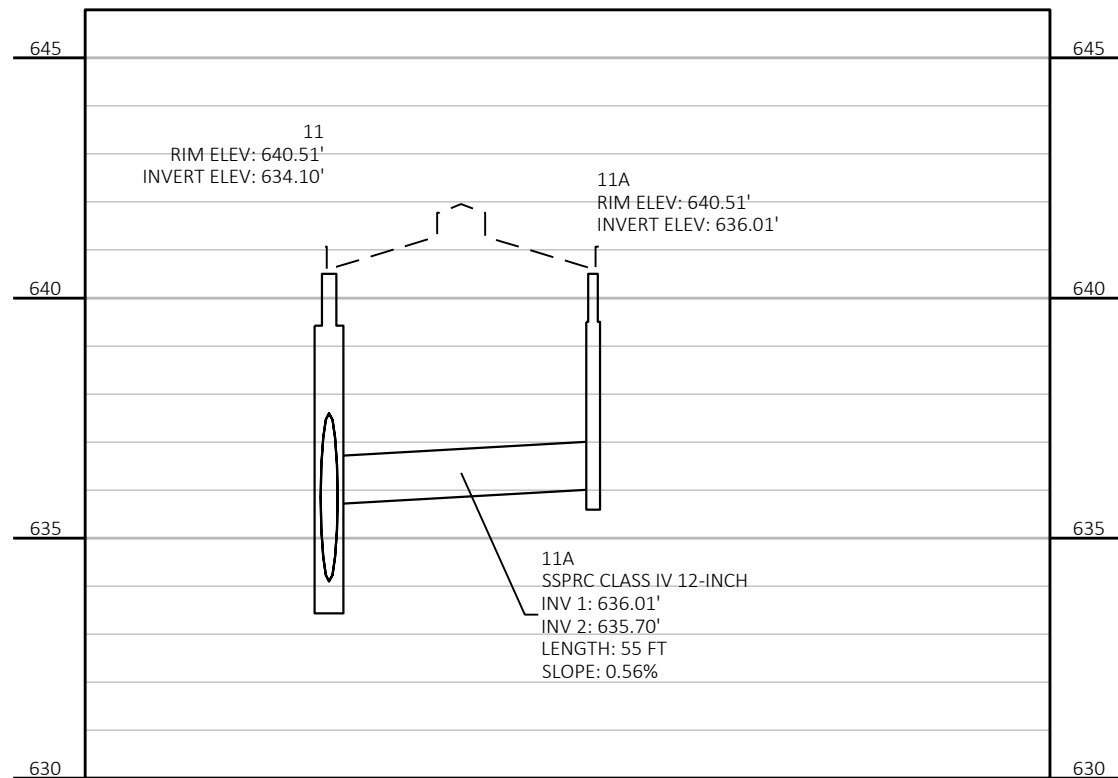
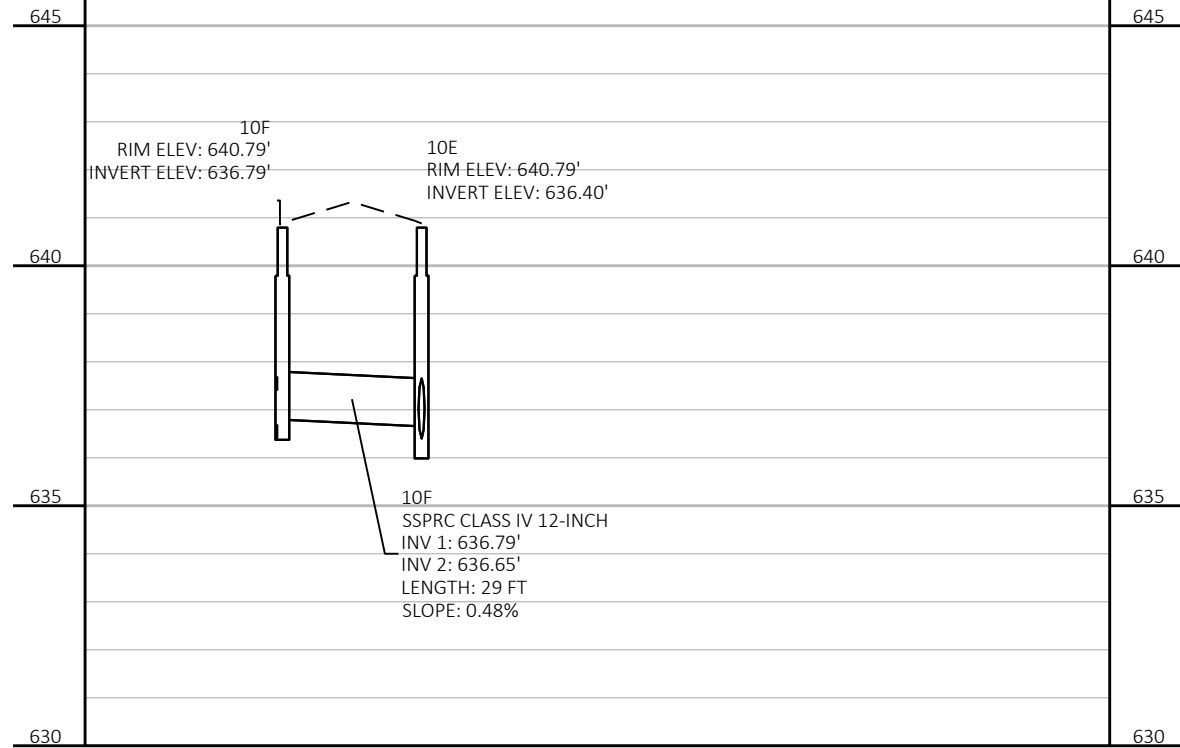
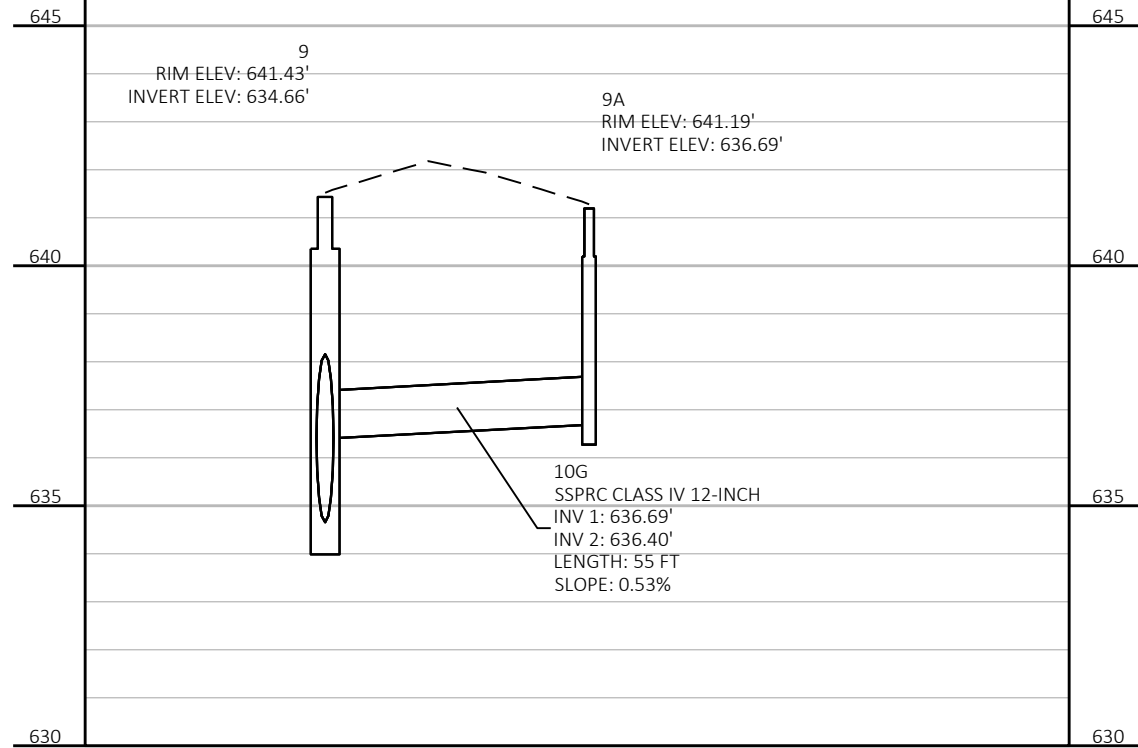


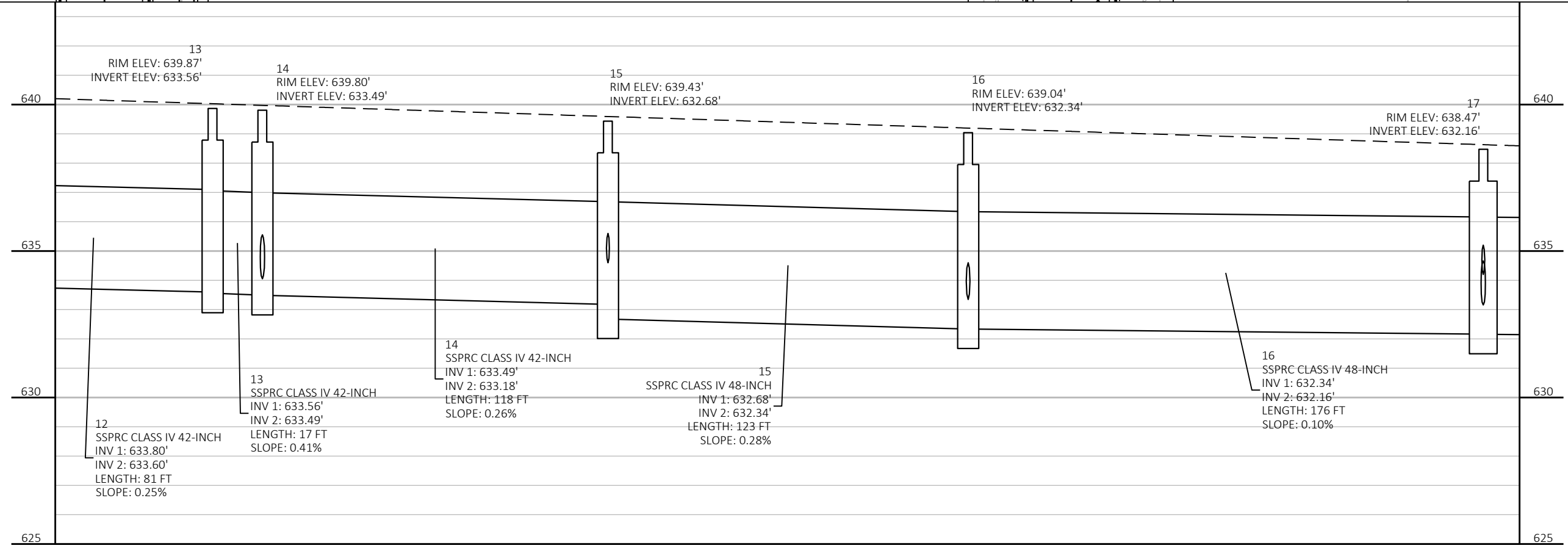
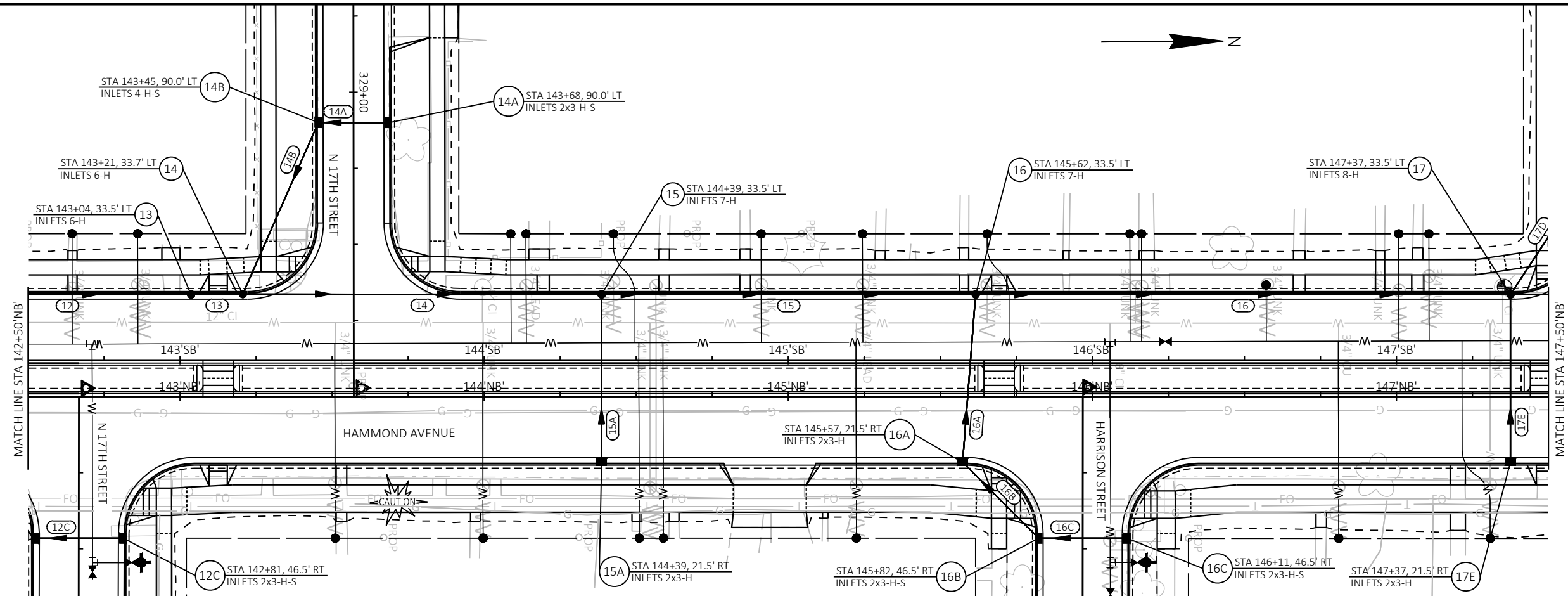


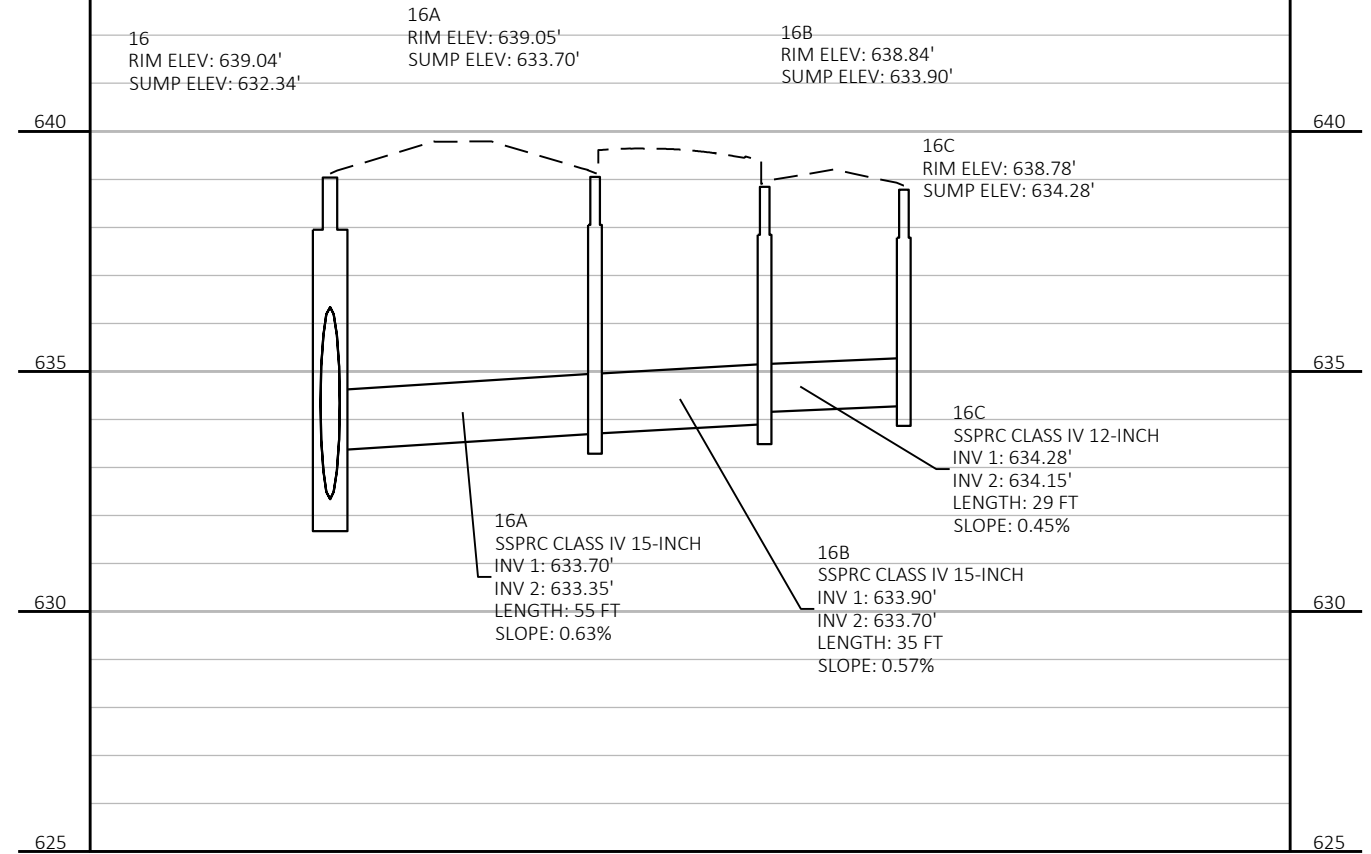
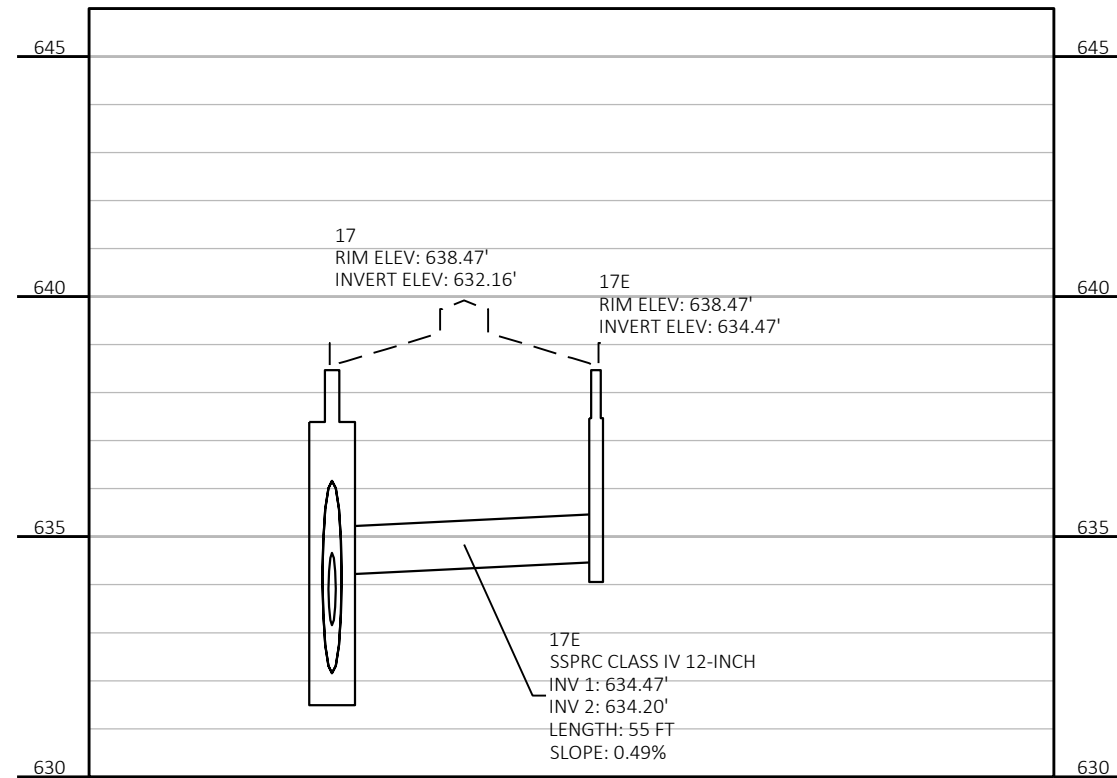
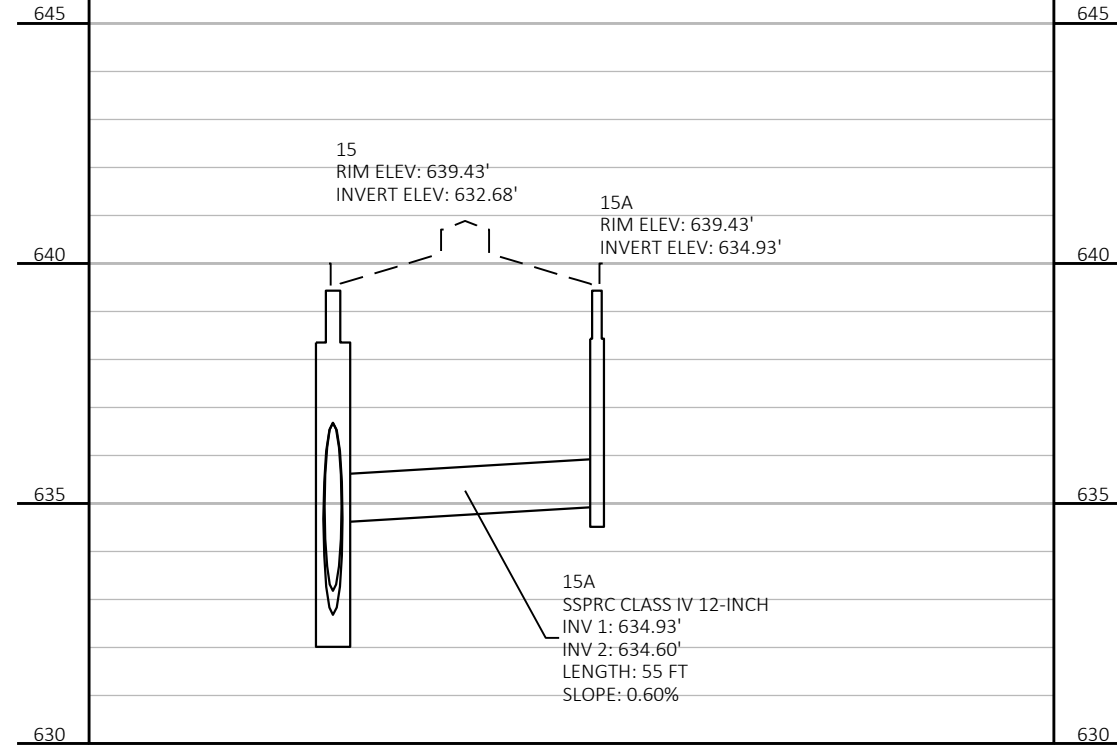


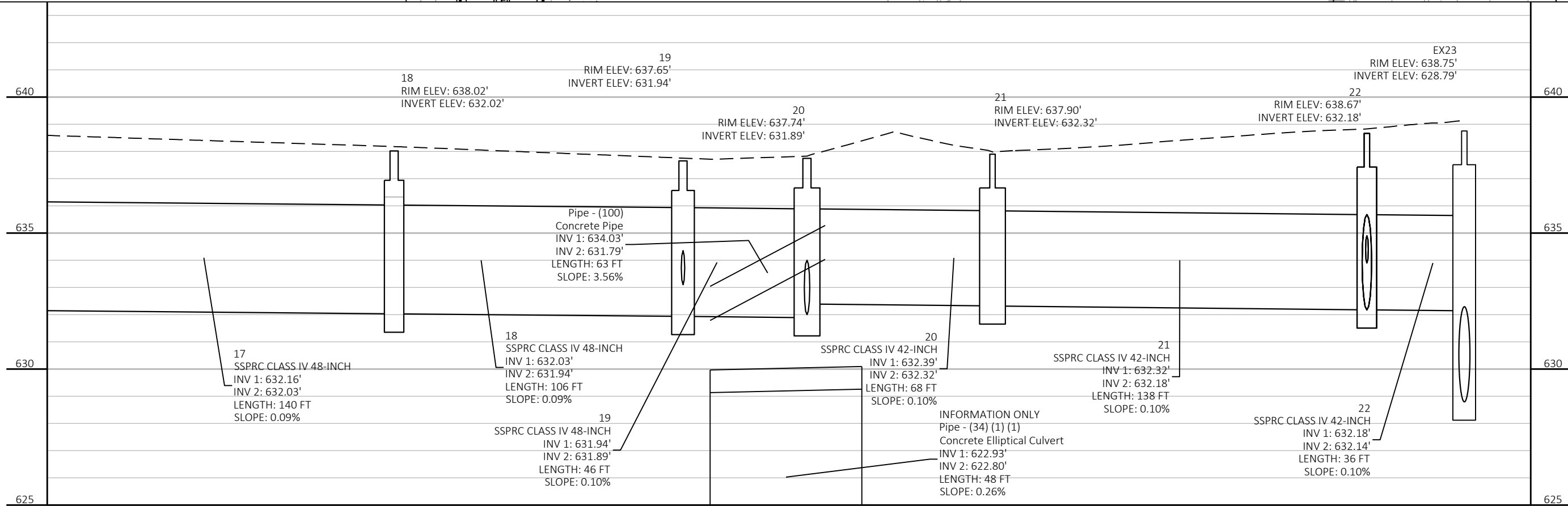
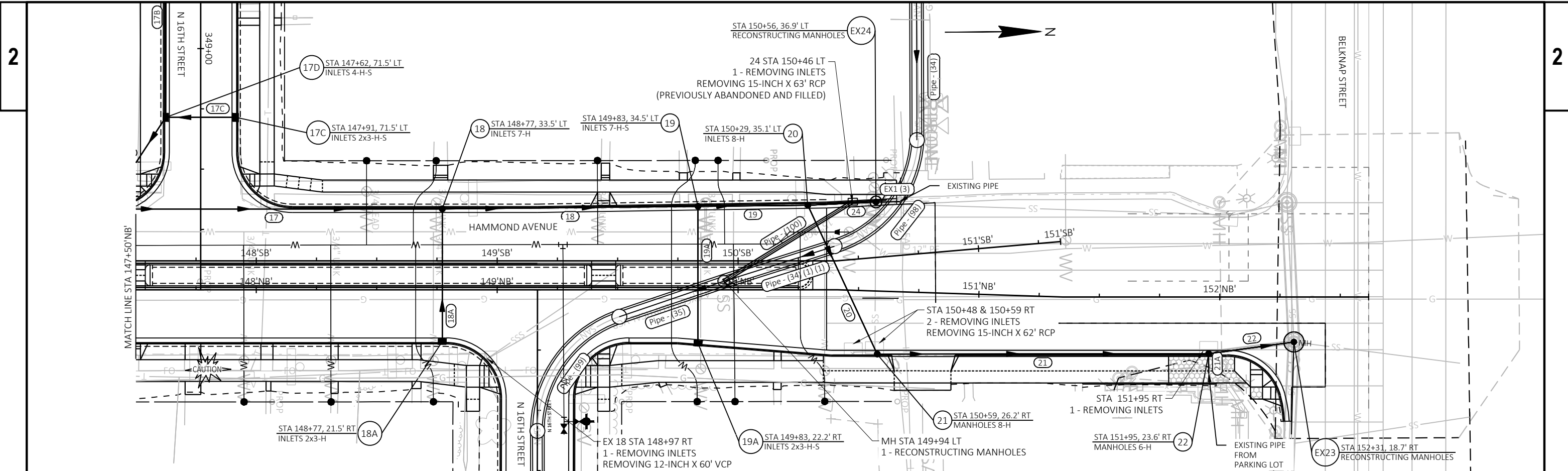


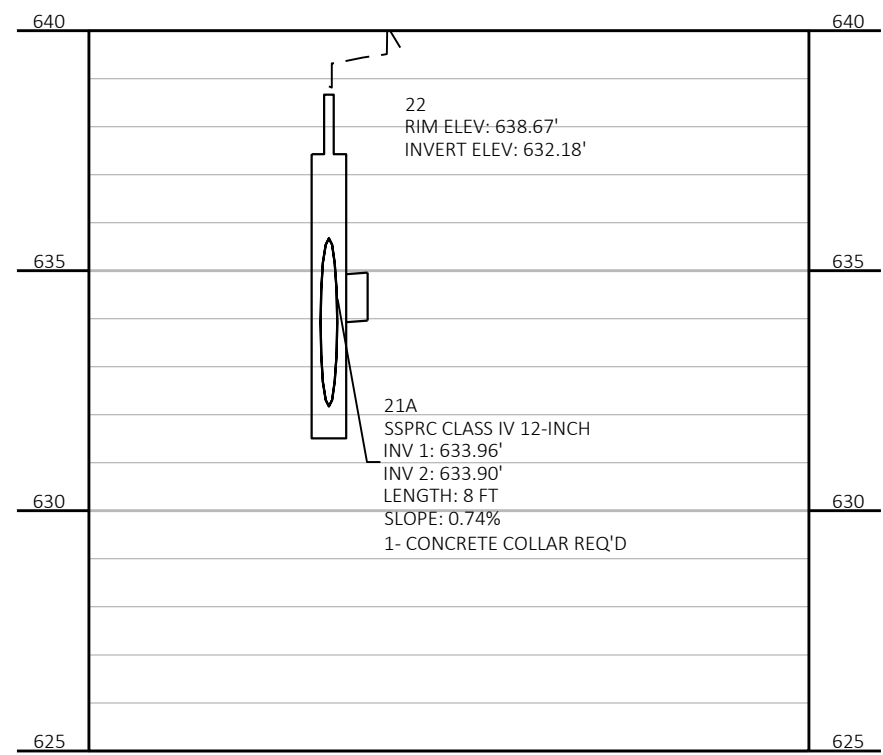
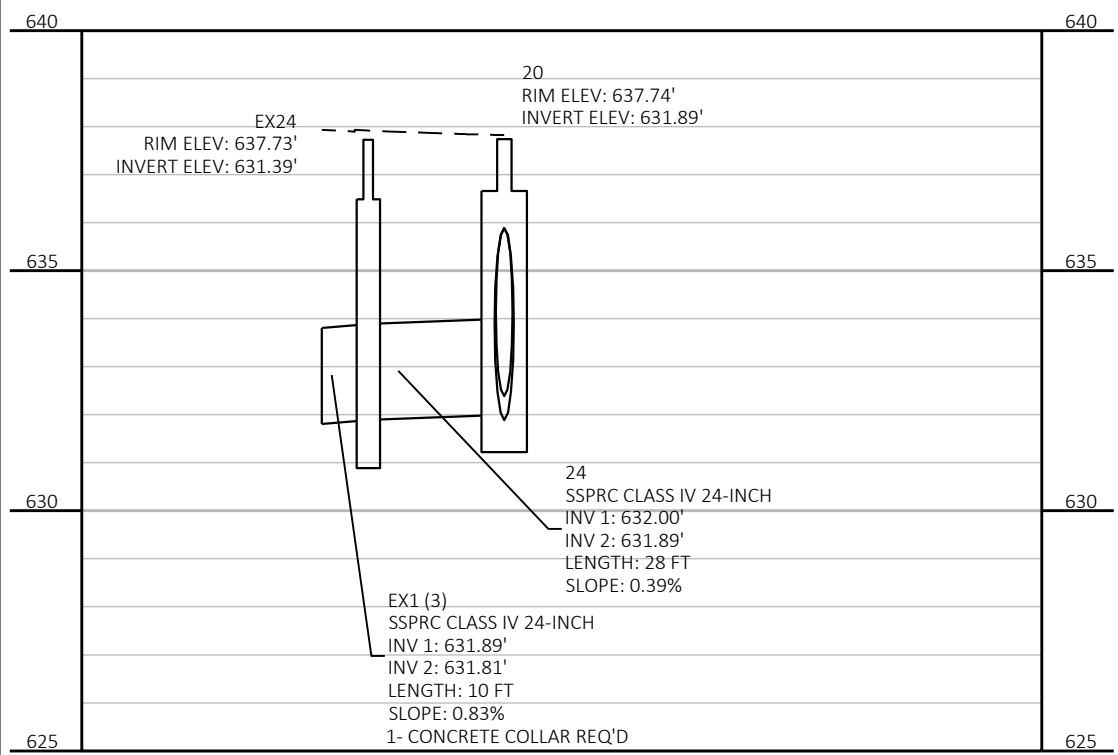
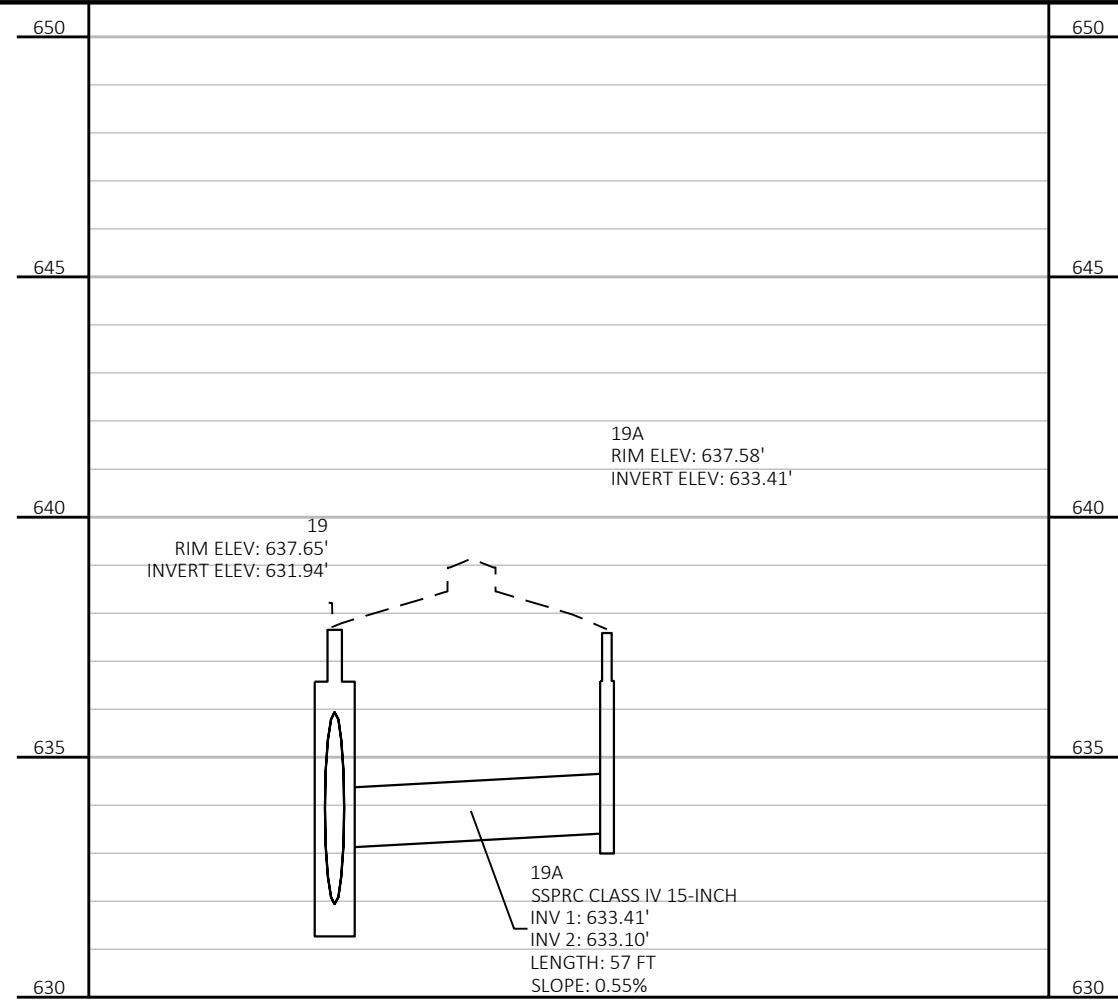
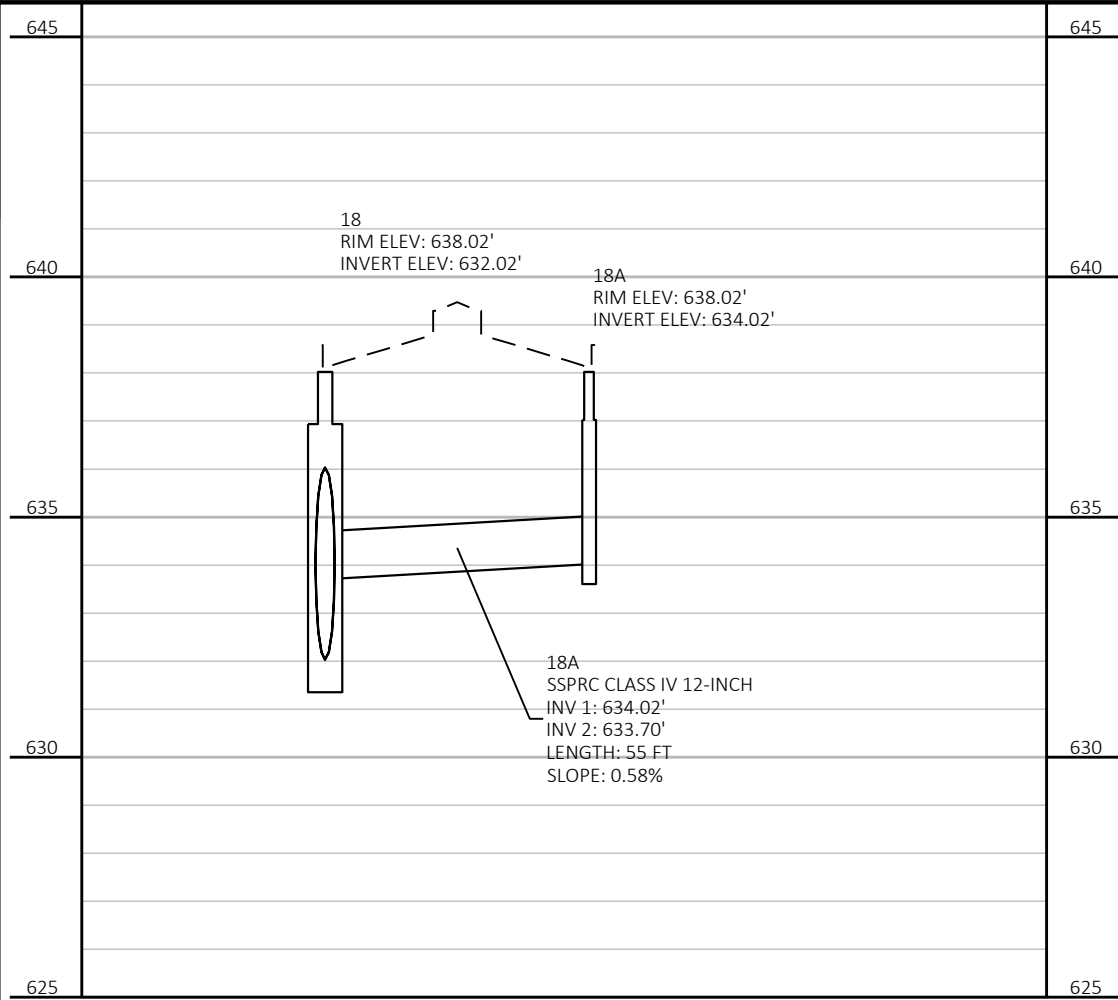


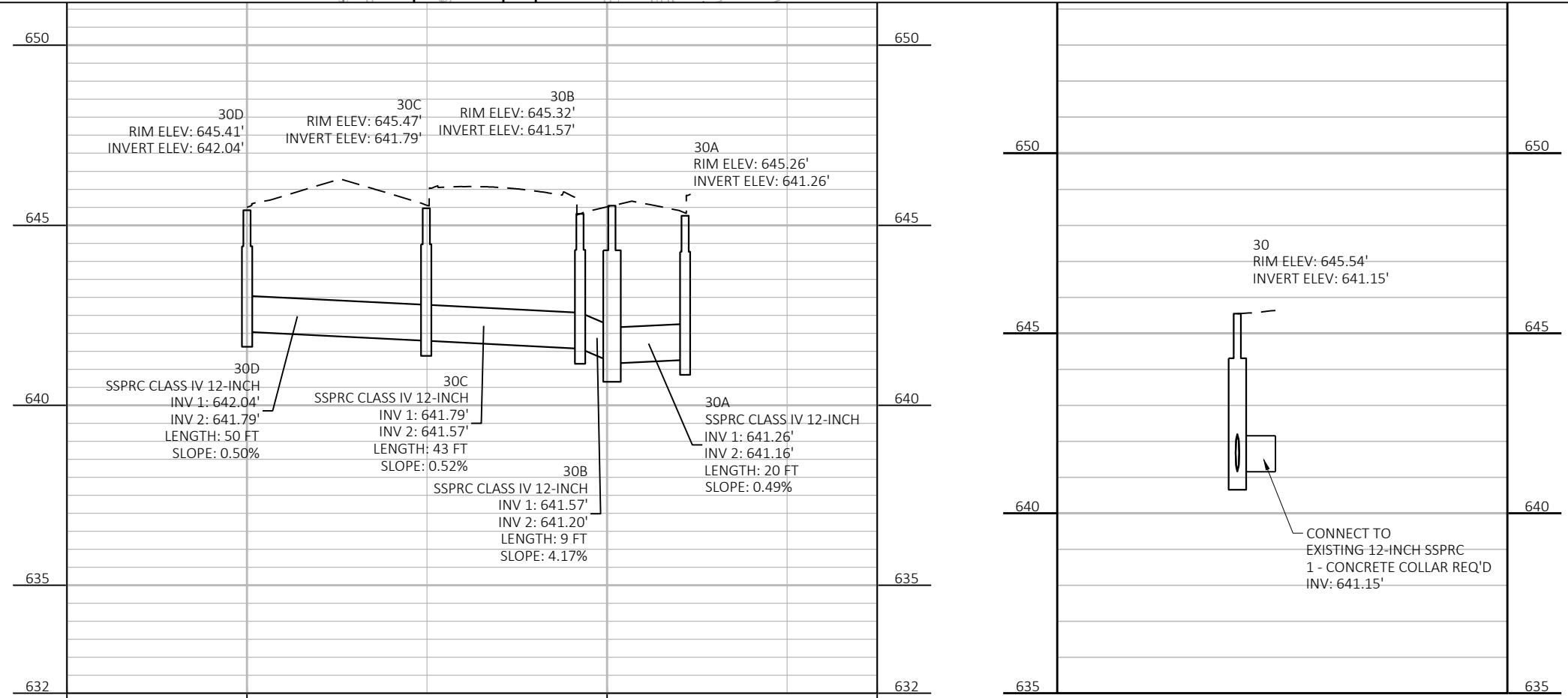
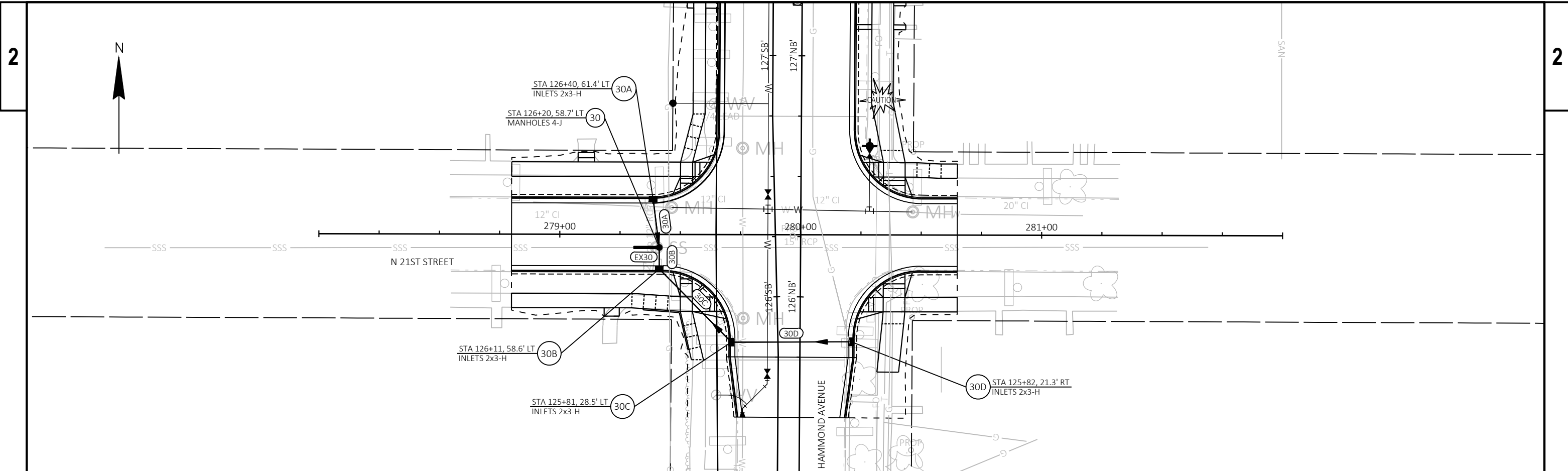


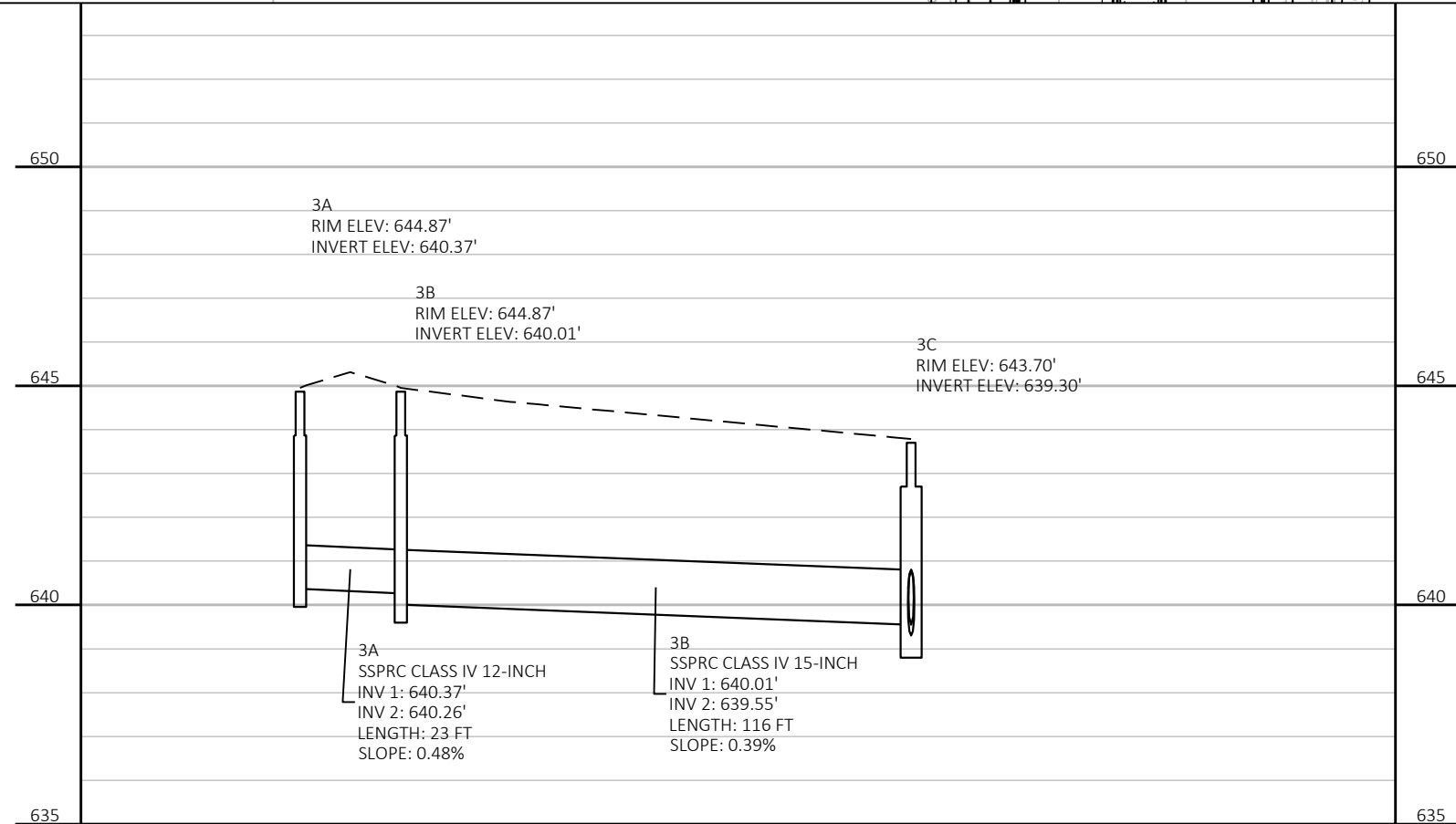
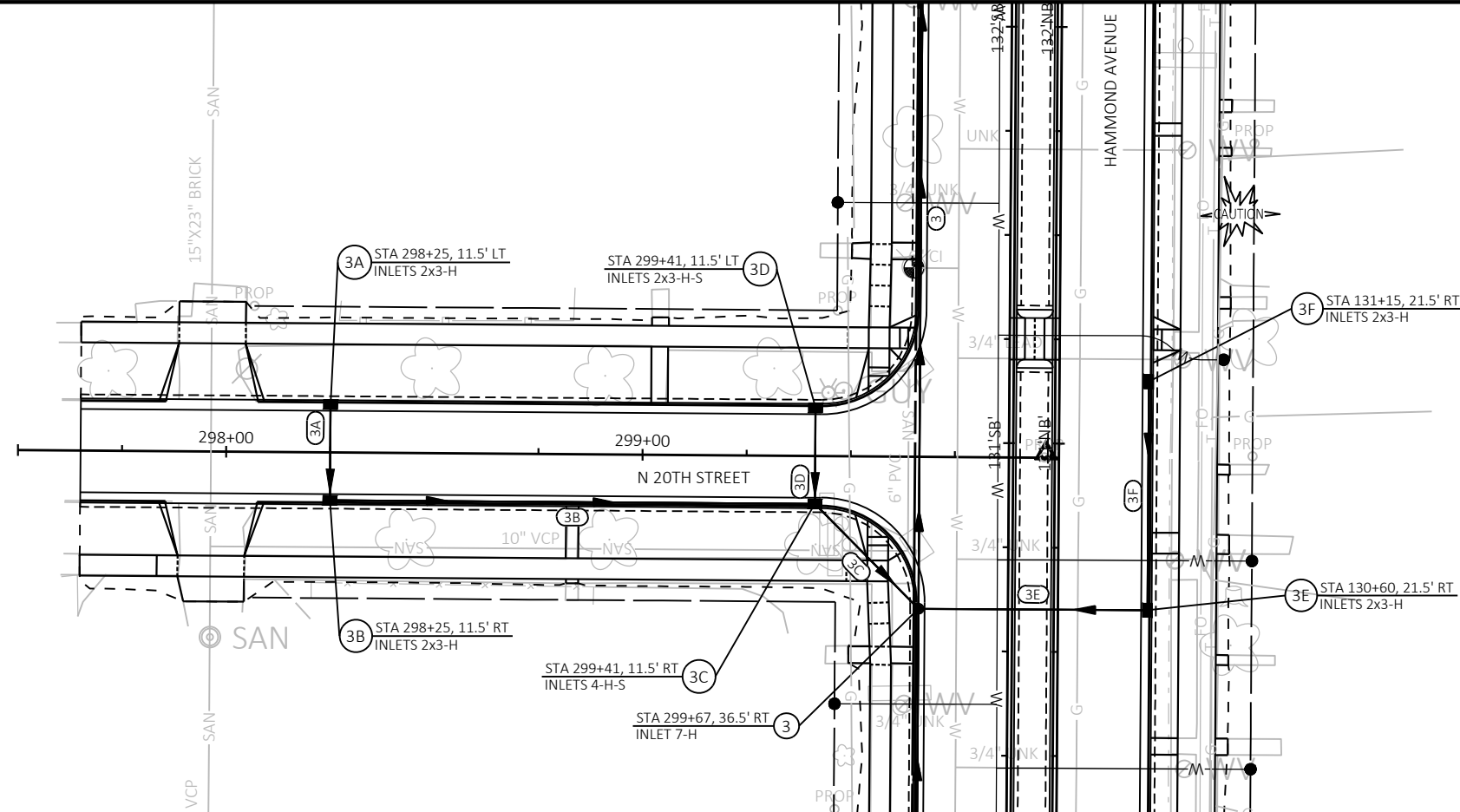


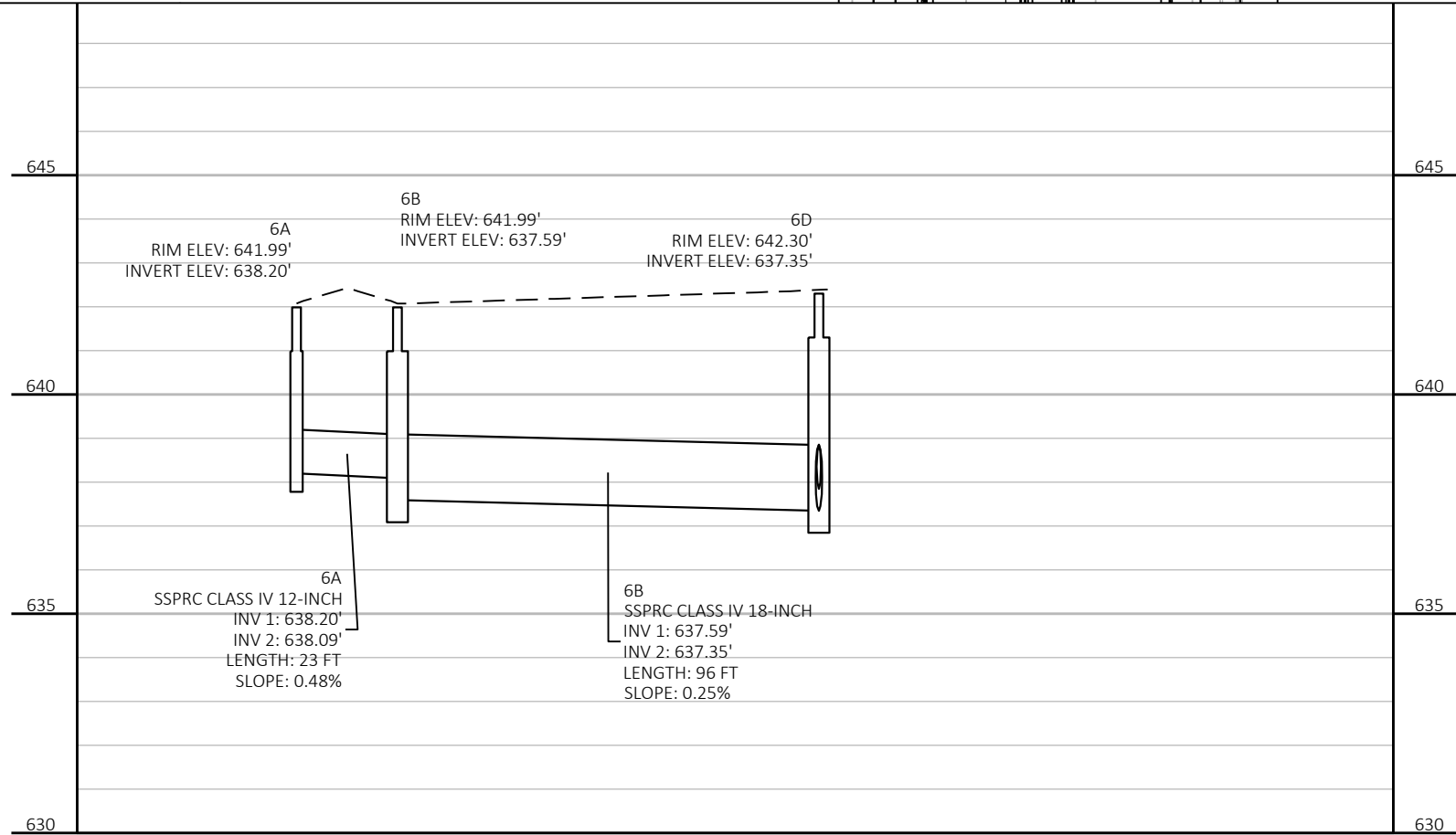
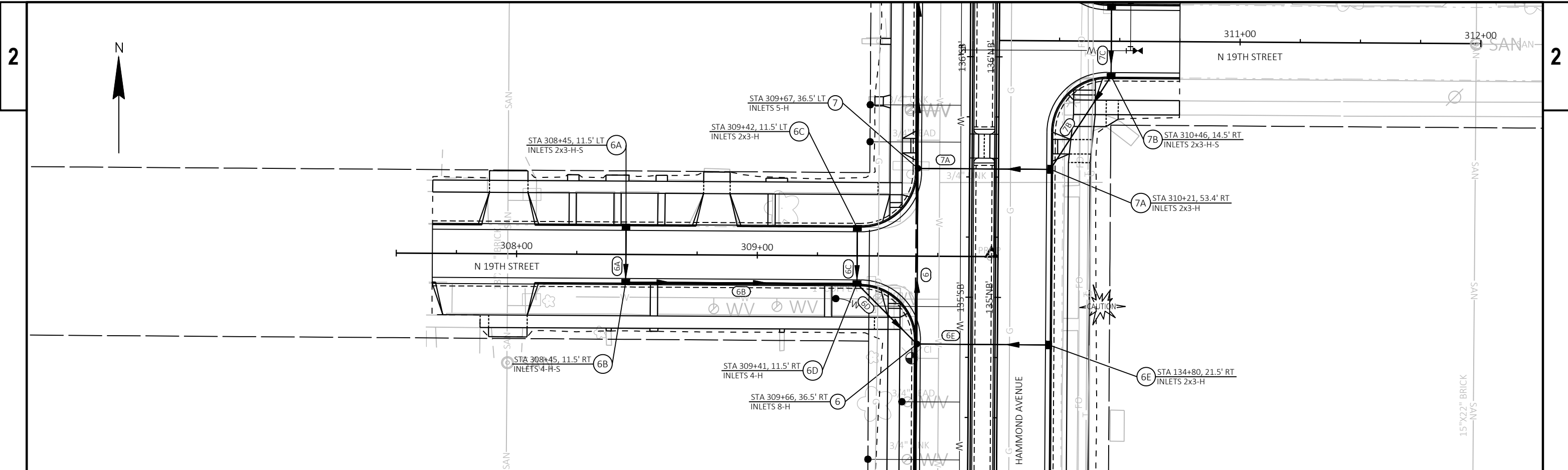


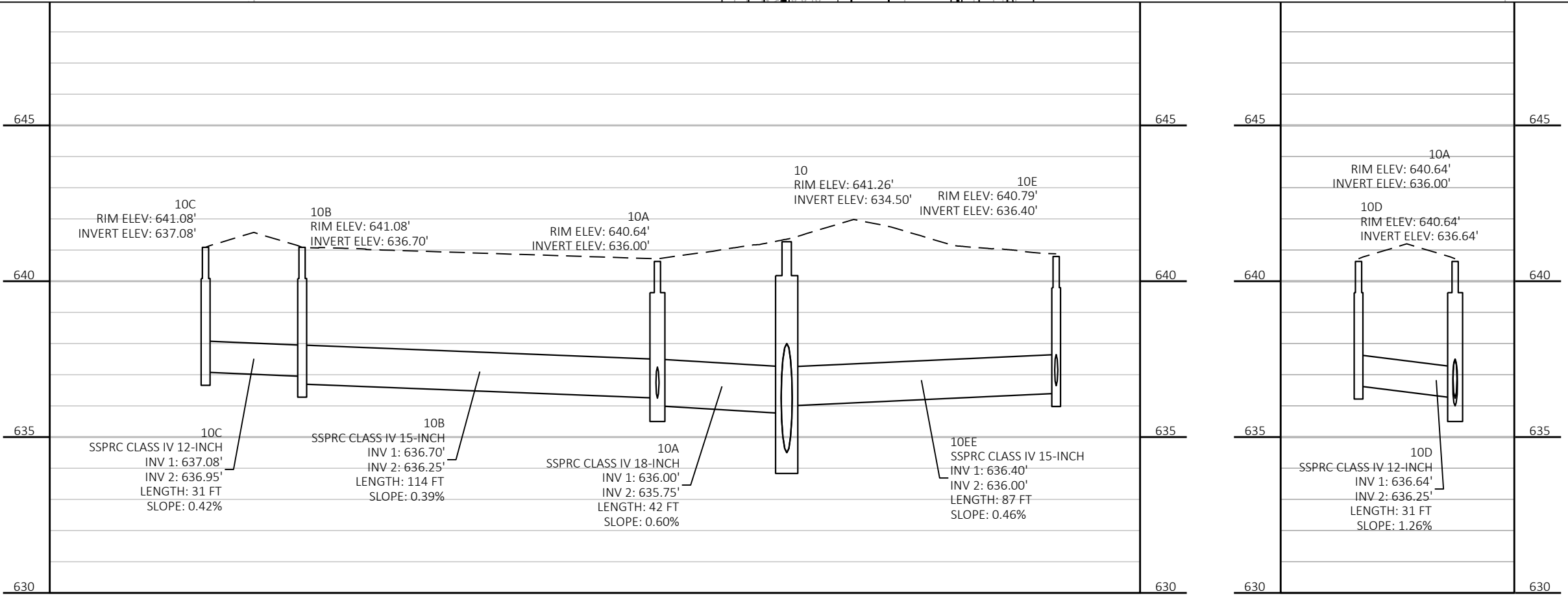
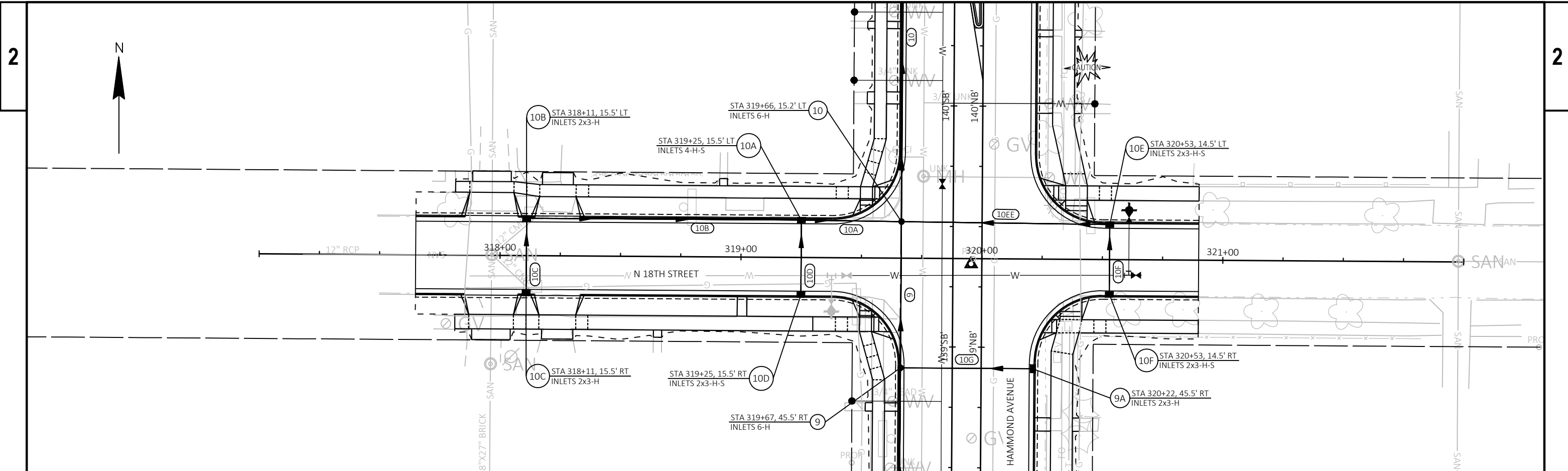


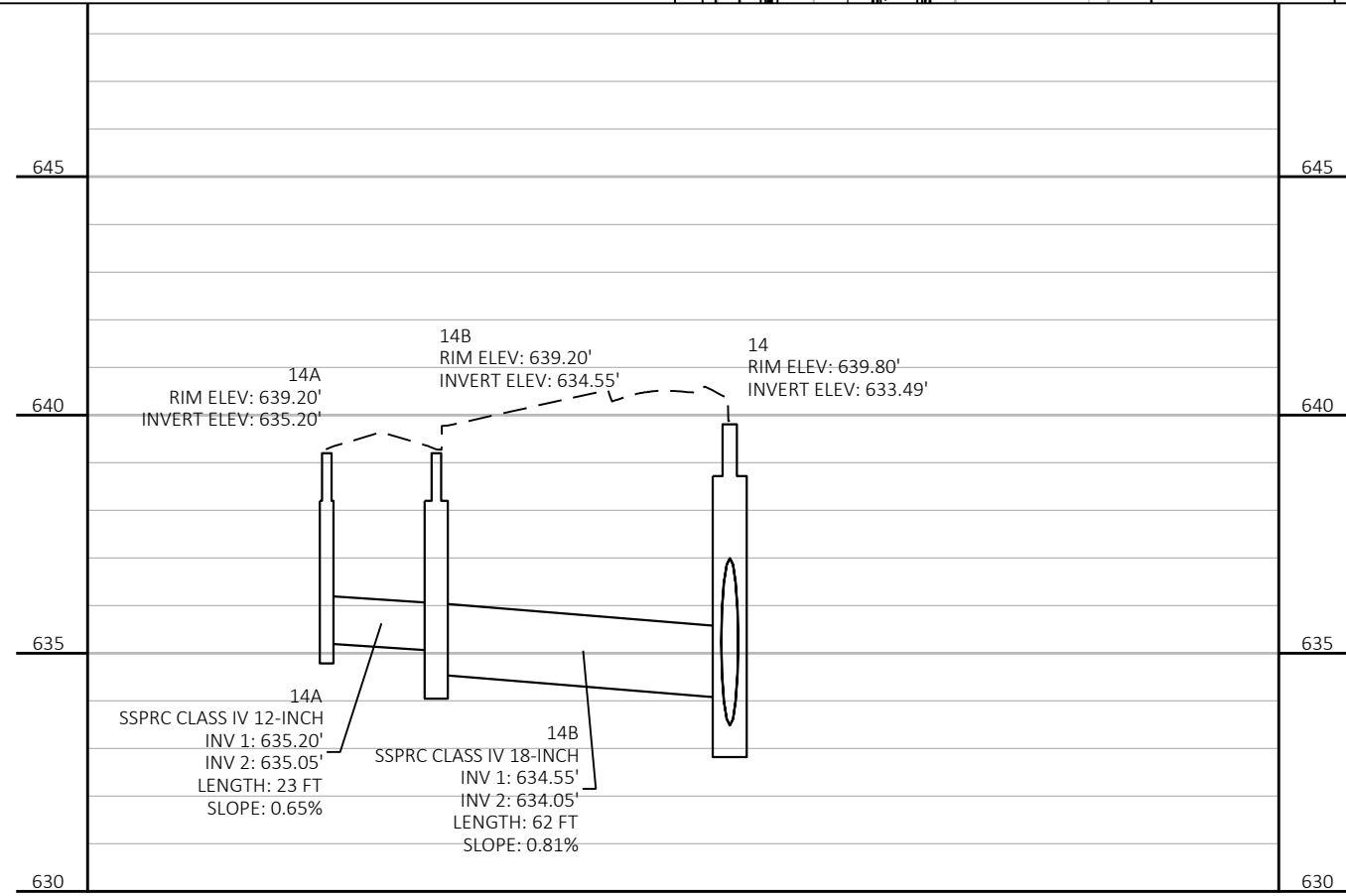
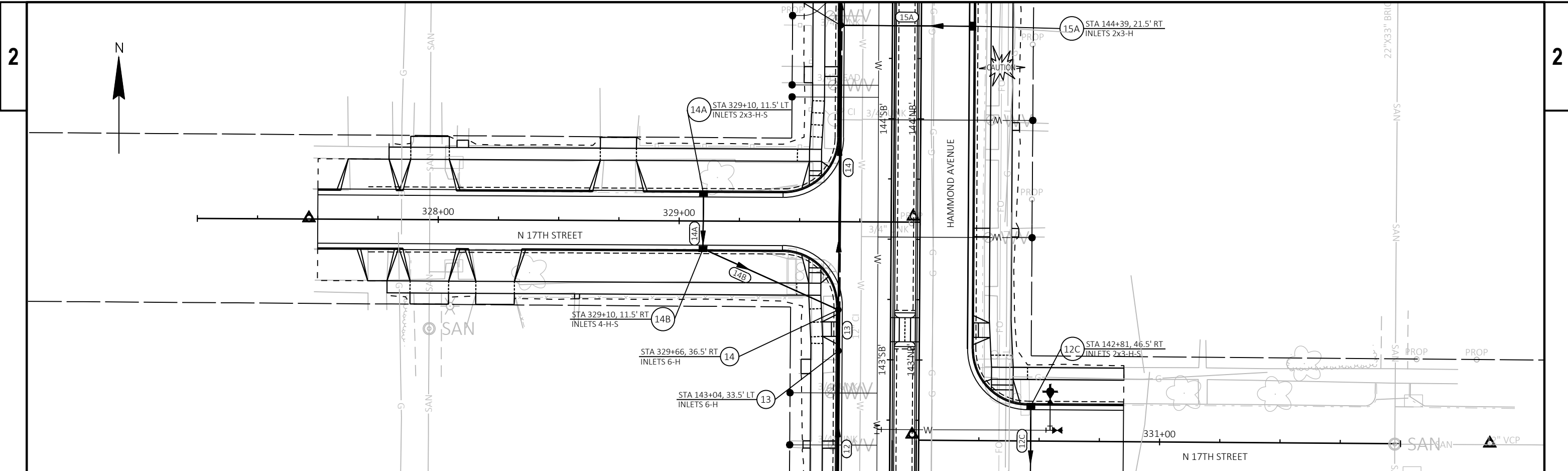


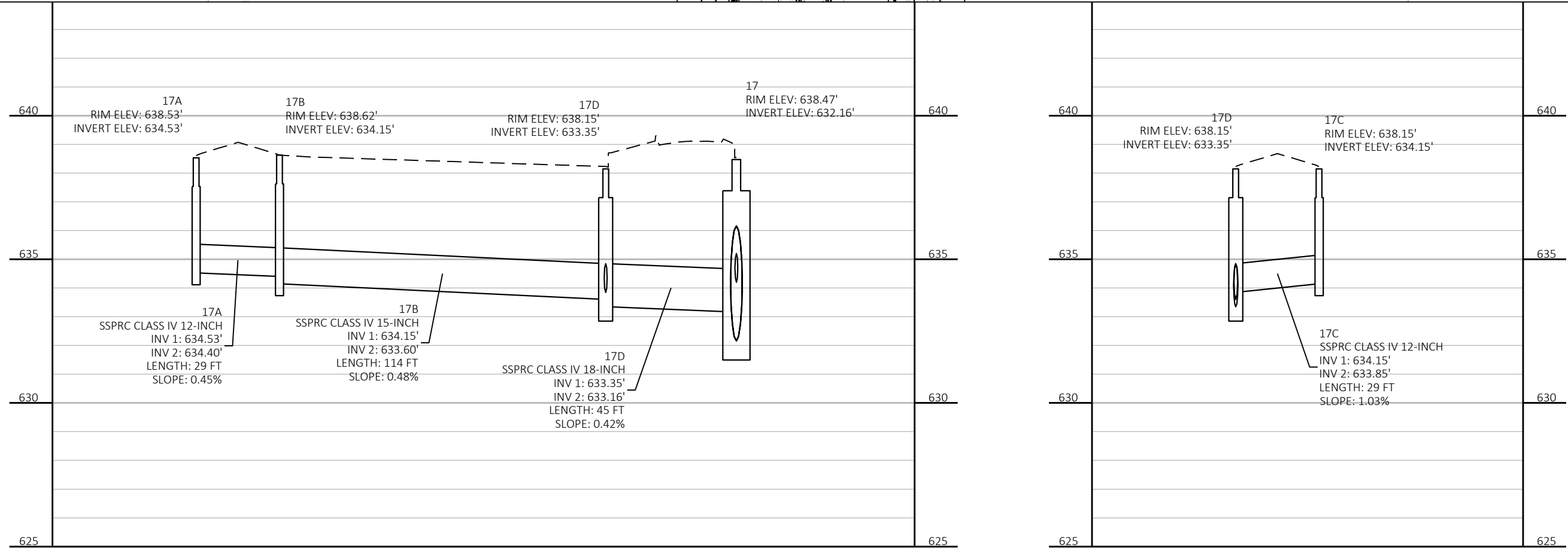
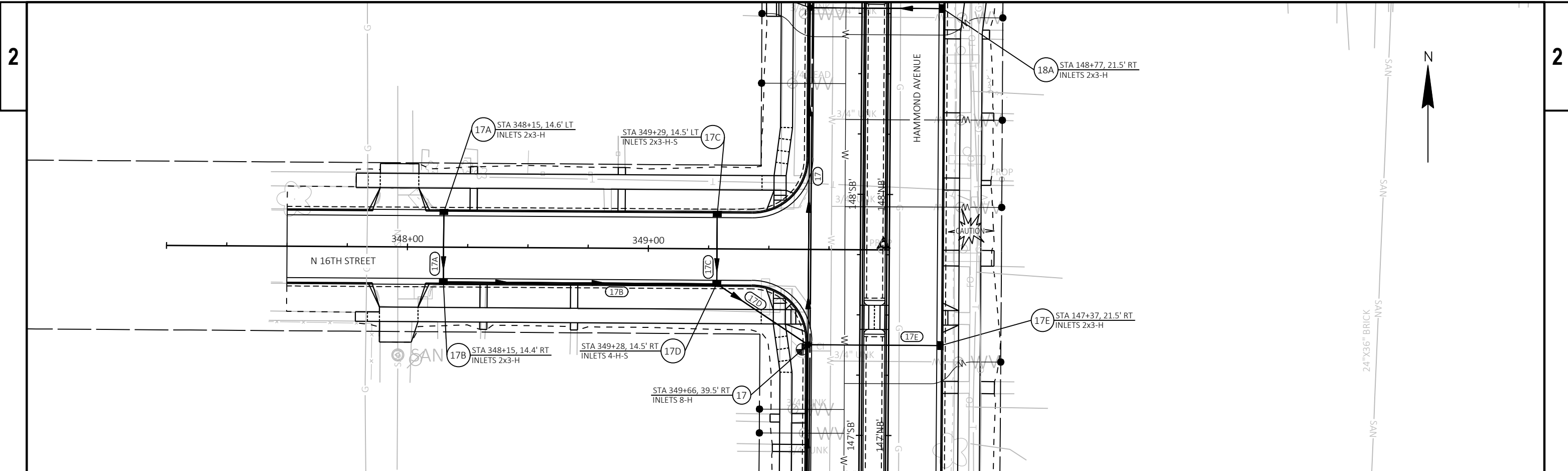


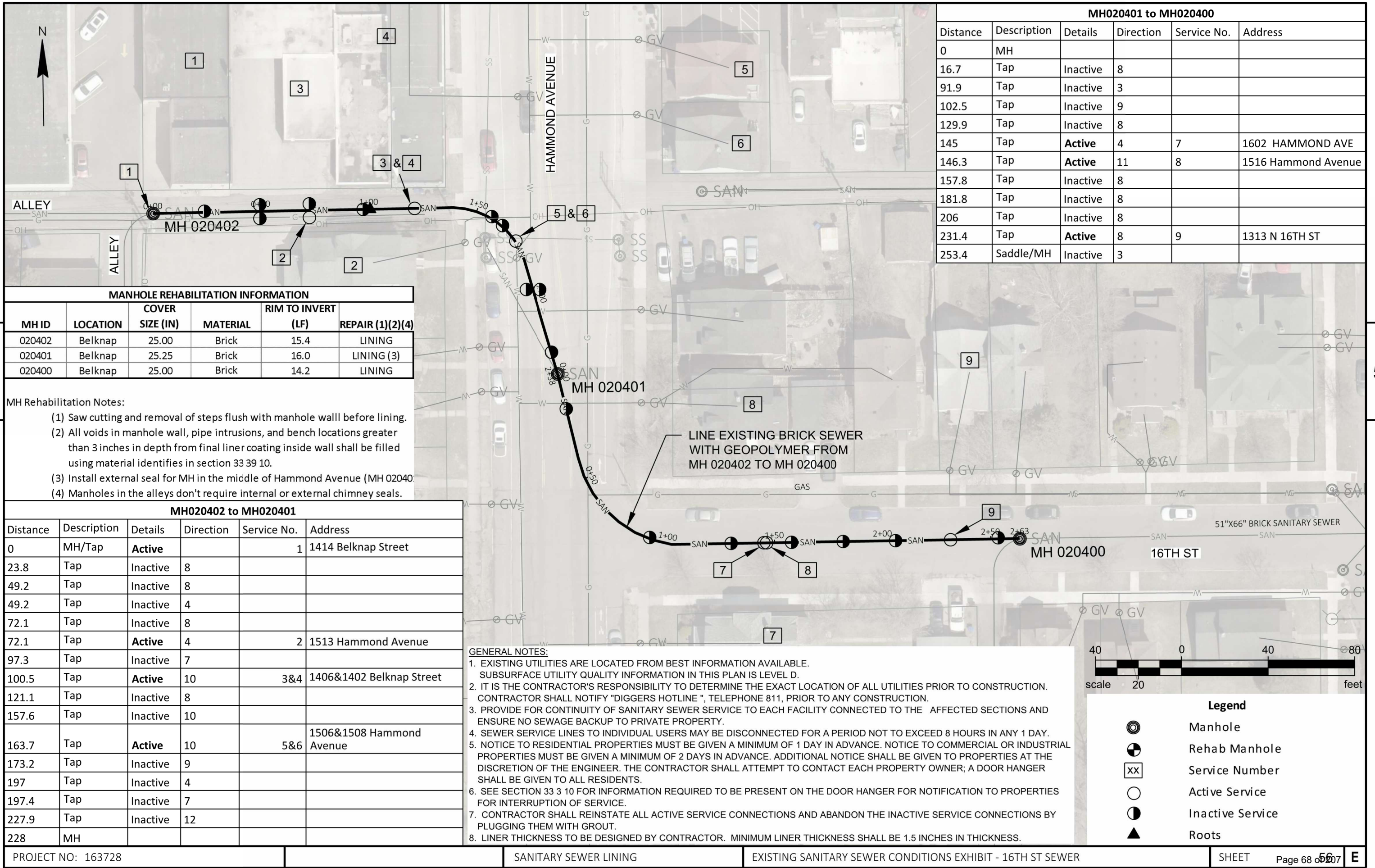












MH020401 to MH020400					
Distance	Description	Details	Direction	Service No.	Address
0	MH				
16.7	Tap	Inactive	8		
91.9	Tap	Inactive	3		
102.5	Tap	Inactive	9		
129.9	Tap	Inactive	8		
145	Tap	Active	4	7	1602 HAMMOND AVE
146.3	Tap	Active	11	8	1516 Hammond Avenue
157.8	Tap	Inactive	8		
181.8	Tap	Inactive	8		
206	Tap	Inactive	8		
231.4	Tap	Active	8	9	1313 N 16TH ST
253.4	Saddle/MH	Inactive	3		

MANHOLE REHABILITATION INFORMATION

MH ID	LOCATION	COVER SIZE (IN)	MATERIAL	RIM TO INVERT (LF)	REPAIR (1)(2)(4)
020402	Belknap	25.00	Brick	15.4	LINING
020401	Belknap	25.25	Brick	16.0	LINING (3)
020400	Belknap	25.00	Brick	14.2	LINING

MH Rehabilitation Notes:

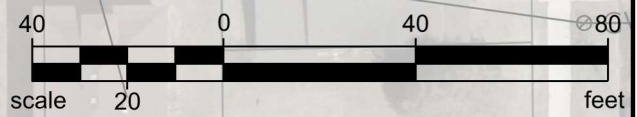
- (1) Saw cutting and removal of steps flush with manhole wall before lining.
- (2) All voids in manhole wall, pipe intrusions, and bench locations greater than 3 inches in depth from final liner coating inside wall shall be filled using material identifies in section 33 39 10.
- (3) Install external seal for MH in the middle of Hammond Avenue (MH 020401).
- (4) Manholes in the alleys don't require internal or external chimney seals.

MH020402 to MH020401

Distance	Description	Details	Direction	Service No.	Address
0	MH/Tap	Active		1	1414 Belknap Street
23.8	Tap	Inactive	8		
49.2	Tap	Inactive	8		
49.2	Tap	Inactive	4		
72.1	Tap	Inactive	8		
72.1	Tap	Active	4	2	1513 Hammond Avenue
97.3	Tap	Inactive	7		
100.5	Tap	Active	10	3&4	1406&1402 Belknap Street
121.1	Tap	Inactive	8		
157.6	Tap	Inactive	10		
163.7	Tap	Active	10	5&6	1506&1508 Hammond Avenue
173.2	Tap	Inactive	9		
197	Tap	Inactive	4		
197.4	Tap	Inactive	7		
227.9	Tap	Inactive	12		
228	MH				

GENERAL NOTES:

- 1. EXISTING UTILITIES ARE LOCATED FROM BEST INFORMATION AVAILABLE. SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS LEVEL D.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY "DIGGERS HOTLINE", TELEPHONE 811, PRIOR TO ANY CONSTRUCTION.
- 3. PROVIDE FOR CONTINUITY OF SANITARY SEWER SERVICE TO EACH FACILITY CONNECTED TO THE AFFECTED SECTIONS AND ENSURE NO SEWAGE BACKUP TO PRIVATE PROPERTY.
- 4. SEWER SERVICE LINES TO INDIVIDUAL USERS MAY BE DISCONNECTED FOR A PERIOD NOT TO EXCEED 8 HOURS IN ANY 1 DAY.
- 5. NOTICE TO RESIDENTIAL PROPERTIES MUST BE GIVEN A MINIMUM OF 1 DAY IN ADVANCE. NOTICE TO COMMERCIAL OR INDUSTRIAL PROPERTIES MUST BE GIVEN A MINIMUM OF 2 DAYS IN ADVANCE. ADDITIONAL NOTICE SHALL BE GIVEN TO PROPERTIES AT THE DISCRETION OF THE ENGINEER. THE CONTRACTOR SHALL ATTEMPT TO CONTACT EACH PROPERTY OWNER; A DOOR HANGER SHALL BE GIVEN TO ALL RESIDENTS.
- 6. SEE SECTION 33 3 10 FOR INFORMATION REQUIRED TO BE PRESENT ON THE DOOR HANGER FOR NOTIFICATION TO PROPERTIES FOR INTERRUPTION OF SERVICE.
- 7. CONTRACTOR SHALL REINSTATE ALL ACTIVE SERVICE CONNECTIONS AND ABANDON THE INACTIVE SERVICE CONNECTIONS BY PLUGGING THEM WITH GROUT.
- 8. LINER THICKNESS TO BE DESIGNED BY CONTRACTOR. MINIMUM LINER THICKNESS SHALL BE 1.5 INCHES IN THICKNESS.



Legend

	Manhole
	Rehab Manhole
	Service Number
	Active Service
	Inactive Service
	Roots

MH3B0040 to MH3B0038					
Distance	Description	Details	Direction	Service No.	Address
0	MH				
5	Tap	Inactive	9		
22	Tap	Active	9	10	1410 N 21ST ST
59.6	Tap	Active	11	11	1408 N 21ST ST
75	Tap	Inactive	9		
90.7	Tap	Active	2	12	2113 HAMMOND AVE
97	Tap	Inactive	2		
100	Tap	Inactive	9		
128	Tap	Active	9	13	1402 N 21ST ST
136	Tap	Inactive	9		
166	Tap	Inactive	9		
225	Tap	Inactive	9		
238	Tap	Inactive	3		
238	Tap	Inactive	9		
254	Tap	Inactive	3		
254	Tap	Inactive	9		
280	Tap	Inactive	3		
280	Tap	Inactive	9		
288	MH				

KEY NOTES:

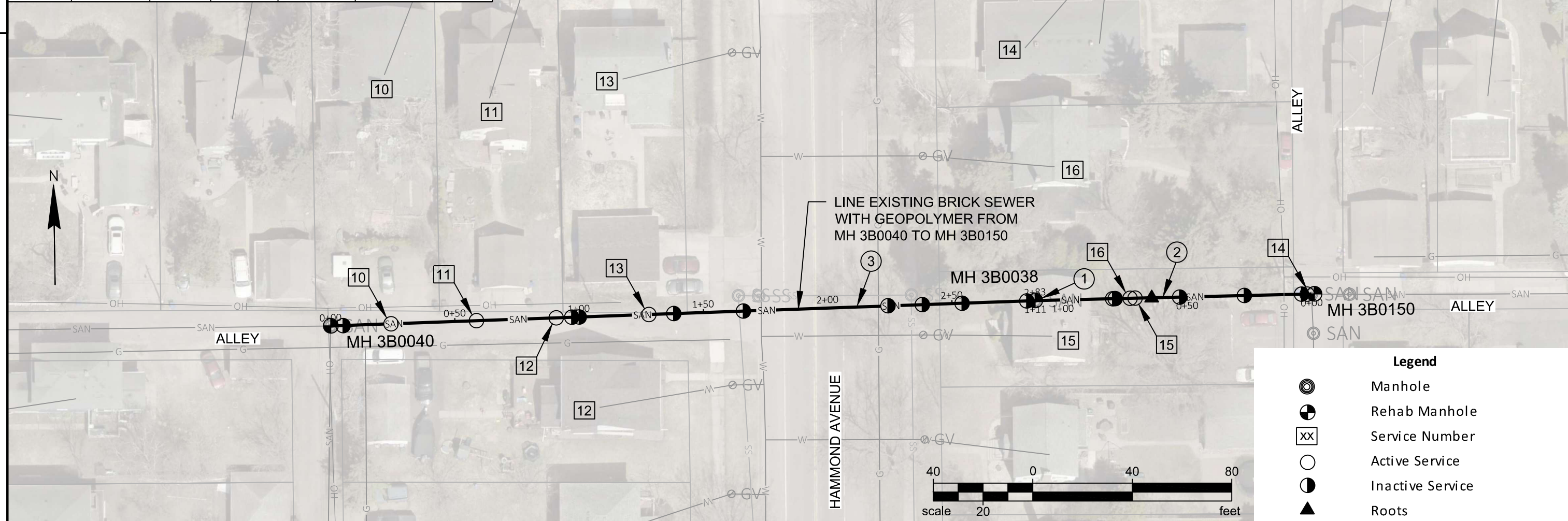
- EXISTING MANHOLE IS UNDER PRIVATE PROPERTY. CONTRACTOR SHALL REHABILITATE MANHOLE AS PART OF THE PIPE REHABILITATION. CONTRACTOR TO ACCESS THE MANHOLE FROM INSIDE THE PIPE ONLY.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF DEBRIS FROM THE BOTTOM OF THE PIPE ON THE DOWNSTREAM SIDE OF EXISTING MANHOLE
- CONTRACTOR TO REMOVE CONDUIT AND SEAL THE HOLES ON THE PIPE WALL.

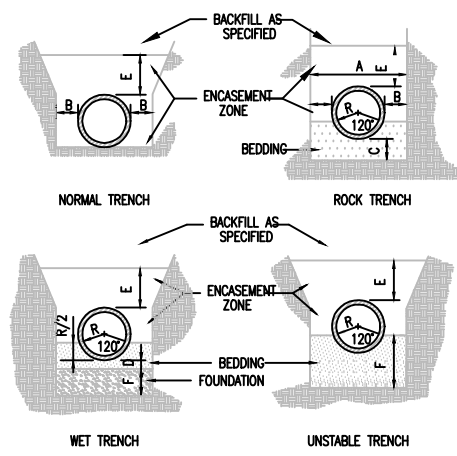
MANHOLE REHABILITATION INFORMATION					
MH ID	LOCATION	COVER SIZE (IN)	MATERIAL	RIM TO INVERT (LF)	REPAIR (1)(2)(5)
3B0040	21st St	24.00	Brick	17.3	LINING
3B0038	21st St	NA	Brick	16.0 (3)	LINING (4)
3B0150	21st St	24.00	Concrete	15.2	LINING

MH Rehabilitation Notes:

- Saw cutting and removal of steps flush with manhole wall before lining.
- All voids in manhole wall, pipe intrusions, and bench locations greater than 3 inches in depth from final liner coating inside wall shall be filled using material identifies in section 33 39 10.
- Rim to Invert Depth has been estimated.
- Manhole opening shall be covered prior to lining.
(See Key Note 1 for more details about repair.)
- Manholes in the alleys don't require internal or external chimney seals.

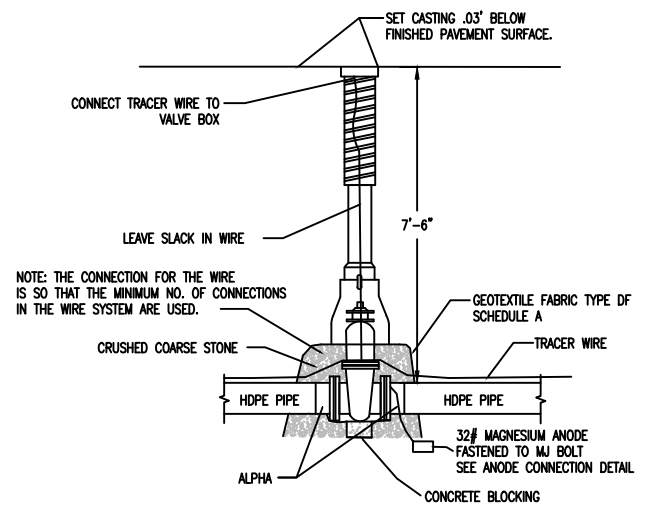
MH3B0150 to MH3B0038					
Distance	Description	Details	Direction	Service No.	Address
0	MH				
0.4	Tap	Active	2	14	1316/1318 N 21ST ST
4	Tap	Inactive	1		
4	Tap	Inactive	9		
27	Tap	Inactive	3		
27	Tap	Inactive	9		
53	Tap	Inactive	3		
53	Tap	Inactive	9		
71	Tap	Active	11	15	2110 HAMMOND AVE
73	Tap	Active	1	16	2106 HAMMOND AVE
79	Tap	Inactive	9		
80	Tap	Inactive	3		





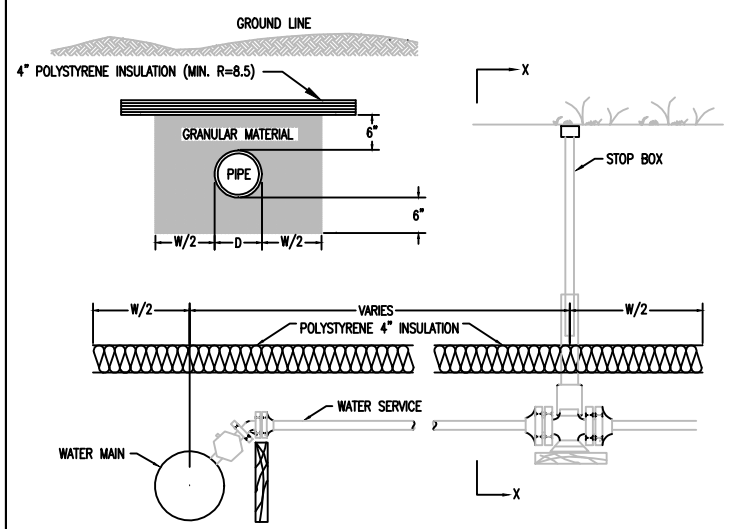
- DIMENSIONS:
 - A. MAXIMUM PAY WIDTH - O.D. PIPE +24"
 - B. MINIMUM - 6"
 - C. 6" BELOW BARREL
 - D. 3" BELOW BARREL
 - E. MINIMUM 12"
 - F. DETERMINED BY THE ENGINEER
- ENCASEMENT ZONE SHALL BE EXCAVATED MATERIALS THAT ARE CLASSIFIED SUITABLE, OR GRANULAR BACKFILL MATERIAL.
- FOUNDATION MATERIAL - 3" CRUSHED STONE FOR WET OR UNSTABLE TRENCH BOTTOM.
- BEDDING MATERIAL - CRUSHED STONE CHIPS

TRENCH SECTION FOR WATER MAIN
NTS



- NOTE: THE CONNECTION FOR THE WIRE IS SO THAT THE MINIMUM NO. OF CONNECTIONS IN THE WIRE SYSTEM ARE USED.
- NOTES:
- VALVES SHALL BE CONNECTED DIRECTLY TO HDPE WITH ALPHA.
 - USE EPOXY COATING ON EXTERIOR OF VALVES.
 - ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL WITH 6 OUNCE WITH 6 OUNCE ZINC ANODE CAPS CONFORMING TO ASTM B-418 FOR ALL MECHANICAL FITTINGS.
 - FOR OPEN CUT PIPE INSTALLATIONS, ELECTROFUSION COUPLINGS ARE NOT ALLOWED FOR CONNECTION OF HDPE TO MJ ADAPTERS. FOR DIRECTIONAL DRILLED INSTALLATIONS, ONE ELECTROFUSION COUPLING MAY BE USED PER VALVE.

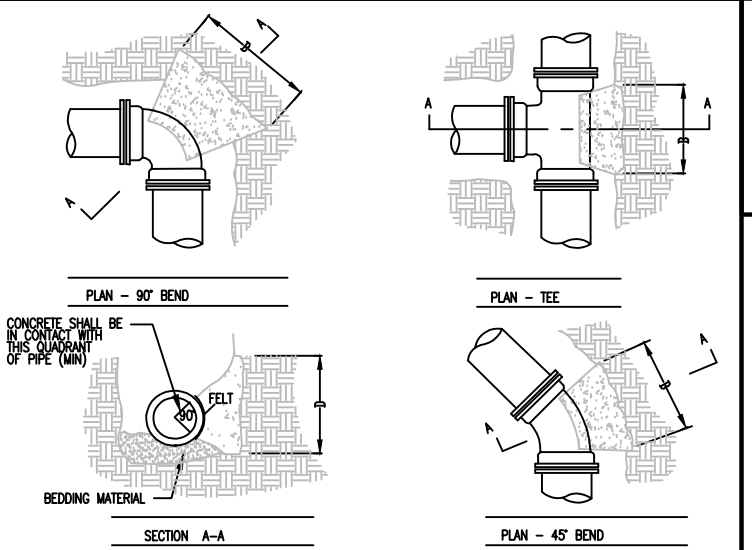
WATER MAIN VALVE DETAIL
NTS



DEPTH (D)	WIDTH (W)
7.5' OR MORE	NONE
5.2' TO 7.4'	4 FEET
4.3' TO 5.1'	6 FEET
3.0' TO 4.2'	8 FEET

- NOTES:
- LAYERING OF 1", 1 1/2", 2" TO ARRIVE AT 4" IS PERMITTED. OFFSET JOINTS.
 - POLYSTYRENE SHALL BE HI DENSITY DOW HI 40 OR CERTIFOAM 40

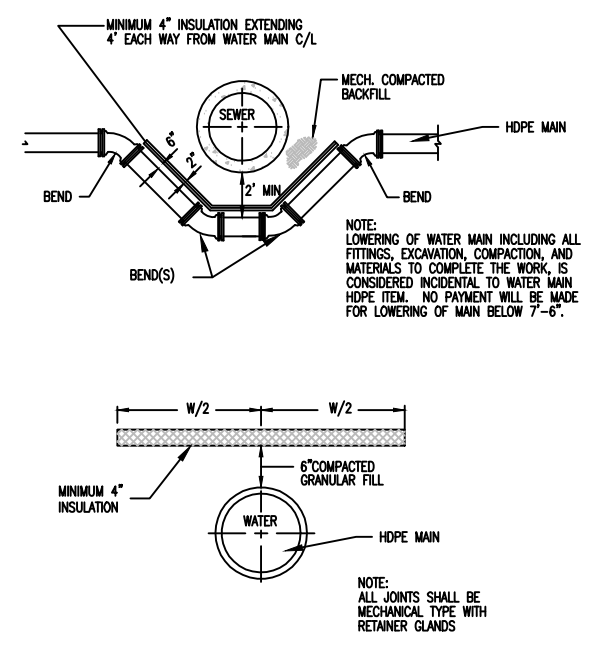
WATER MAIN & SERVICE INSULATION DETAIL
NTS



BEND OR BRANCH SIZE	BLOCKING DIMENSIONS							
	22 1/2° BENDS		45° BENDS		90° BENDS		TEES	
	B	D	B	D	B	D	B	D
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"	1'-3"	1'-0"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"	1'-6"	1'-4"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"	2'-3"	2'-0"
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"	3'-2"	2'-4"
20"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"	4'-0"	3'-0"
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"	5'-3"	3'-4"
30"	3'-6"	3'-0"	5'-4"	3'-10"	8'-0"	4'-8"	6'-3"	4'-3"

- NOTES:
- DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FOOT
 - BLOCKING TO BE SET AGAINST UNDISTURBED SOIL.
 - CONCRETE SHALL BE CLASS "1F". CONCRETE SHALL NOT INTERFERE WITH MECHANICAL JOINTS.

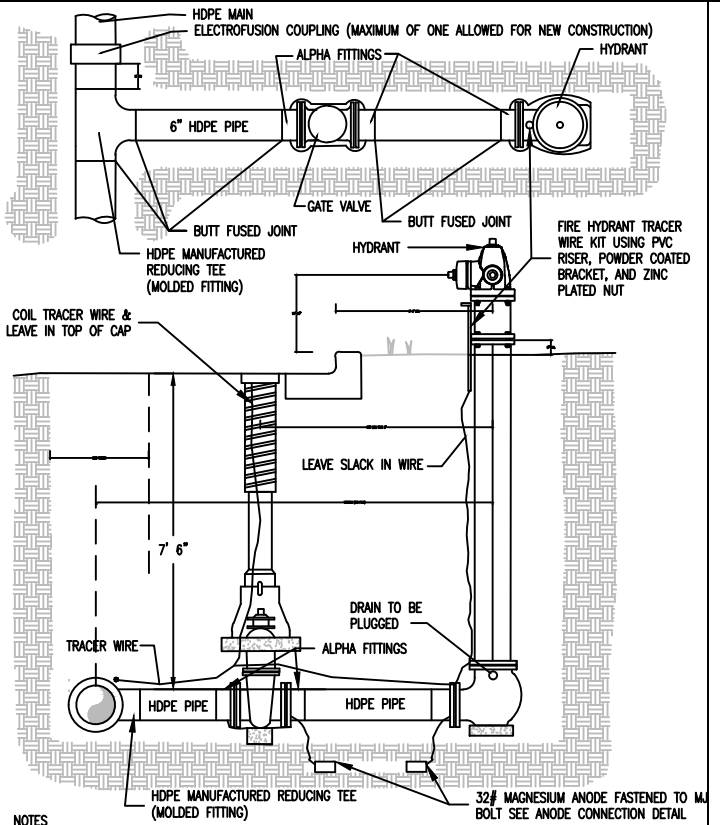
THRUST BLOCKING FOR WATER MAIN
NTS



NOTE: LOWERING OF WATER MAIN INCLUDING ALL FITTINGS, EXCAVATION, COMPACTION, AND MATERIALS TO COMPLETE THE WORK, IS CONSIDERED INCIDENTAL TO WATER MAIN HDPE ITEM. NO PAYMENT WILL BE MADE FOR LOWERING OF MAIN BELOW 7'-6".

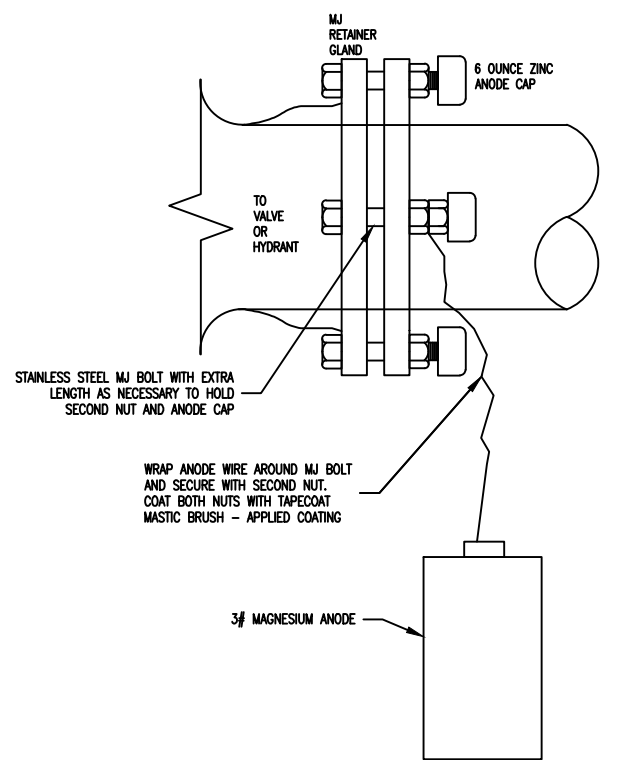
NOTE: ALL JOINTS SHALL BE MECHANICAL TYPE WITH RETAINER GLANDS

LOWER WATER MAIN W/INSULATION
NTS

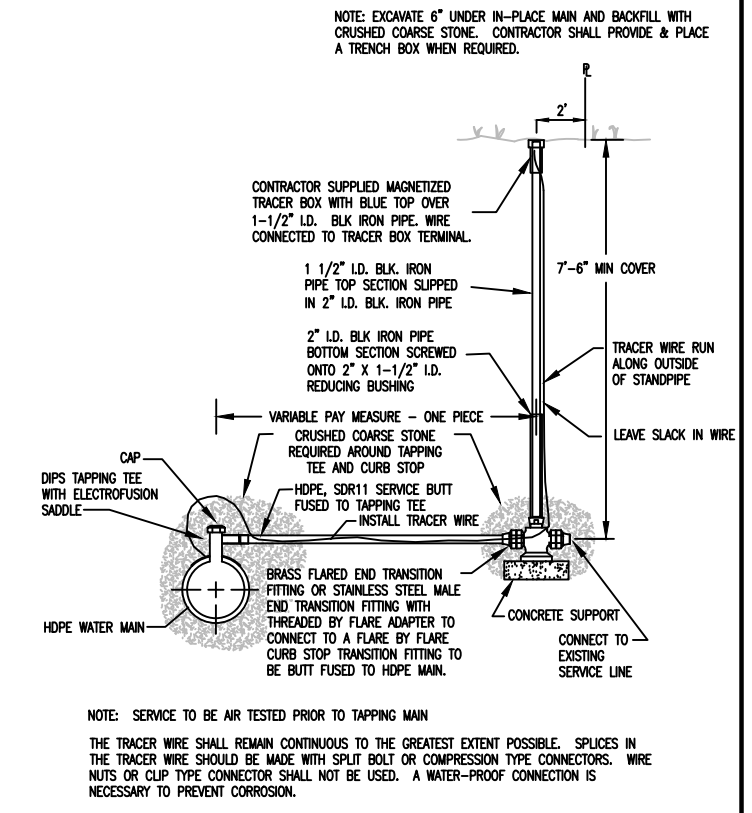


- NOTES:
- VALVES SHALL BE CONNECTED DIRECTLY TO MECHANICAL JOINT ADAPTERS.
 - USE EPOXY COATING ON VALVE AND HYDRANT BASE
 - ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL WITH 6 OUNCE ZINC ANODE CAPS CONFORMING TO ASTM B-418 FOR ALL MECHANICAL FITTINGS.

FIRE HYDRANT SETTING DETAIL
NTS

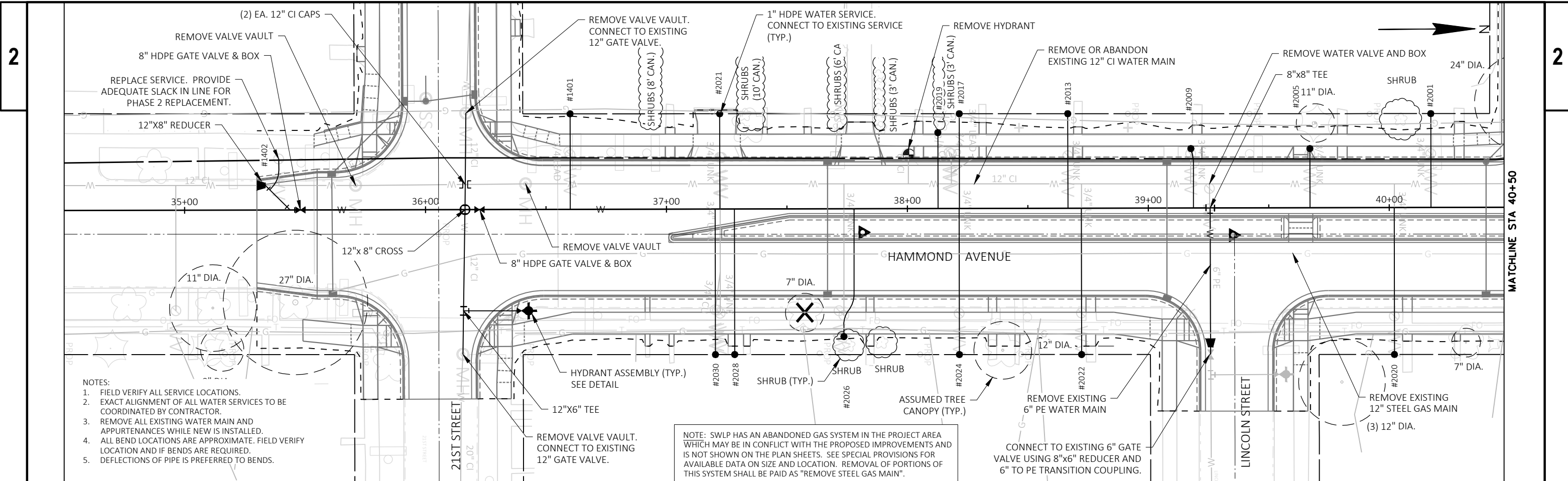


ANODE CONNECTION DETAIL
NTS



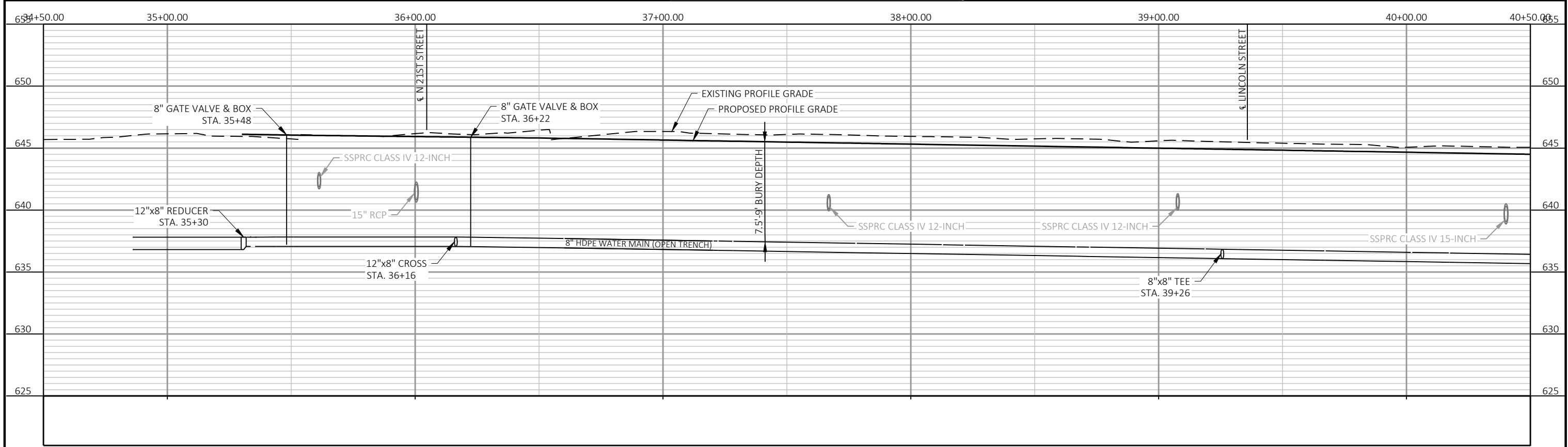
NOTE: SERVICE TO BE AIR TESTED PRIOR TO TAPPING MAIN
THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT OR COMPRESSION TYPE CONNECTORS. WIRE NUTS OR CLIP TYPE CONNECTOR SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

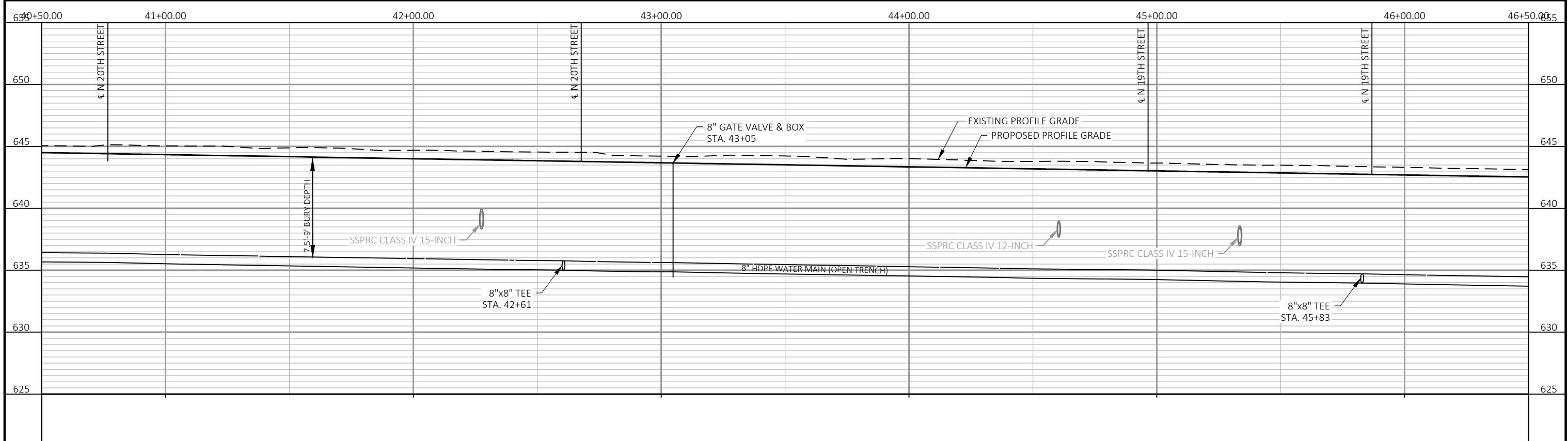
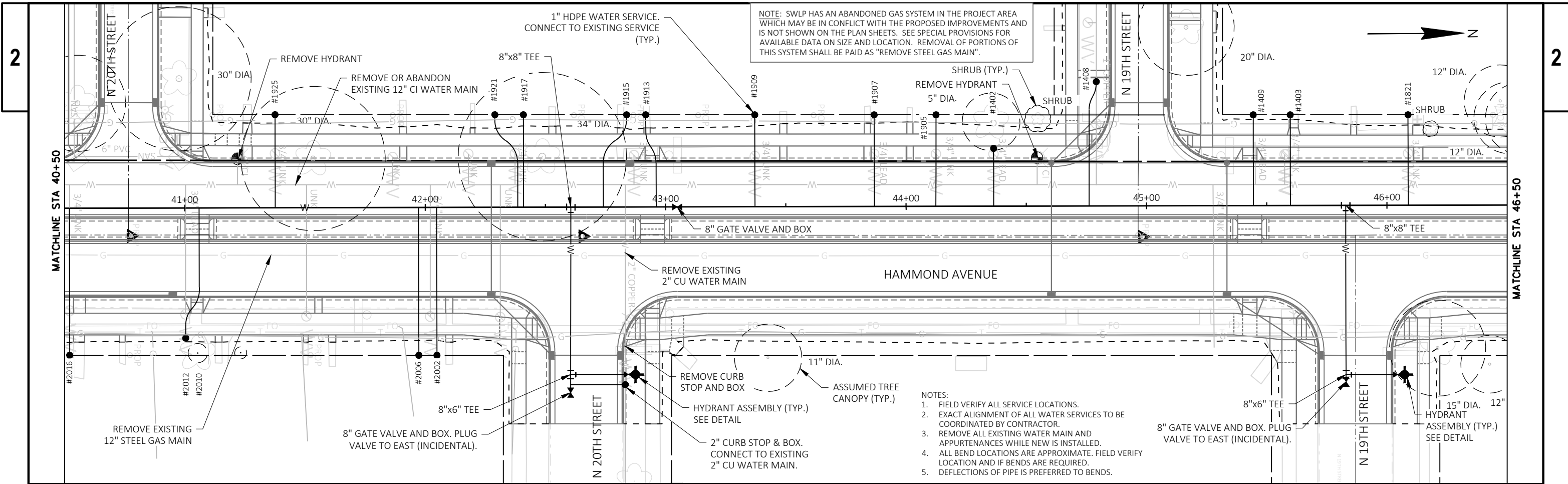
TYPICAL HDPE WATER SERVICE - 1", 1-1/4", 1-1/2", AND 2"
NTS

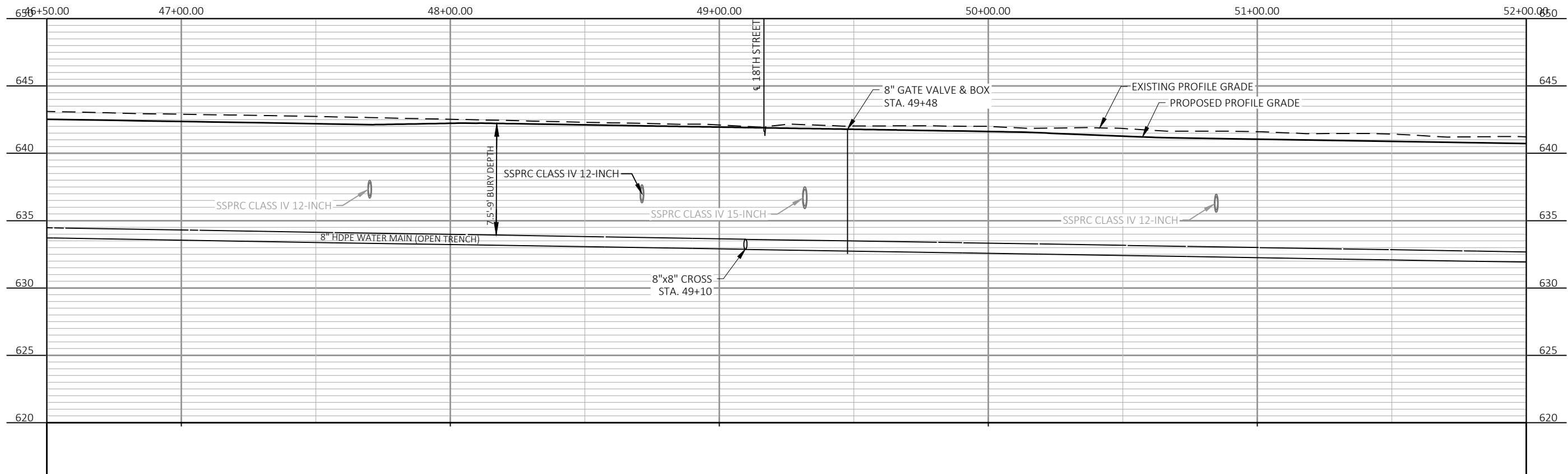
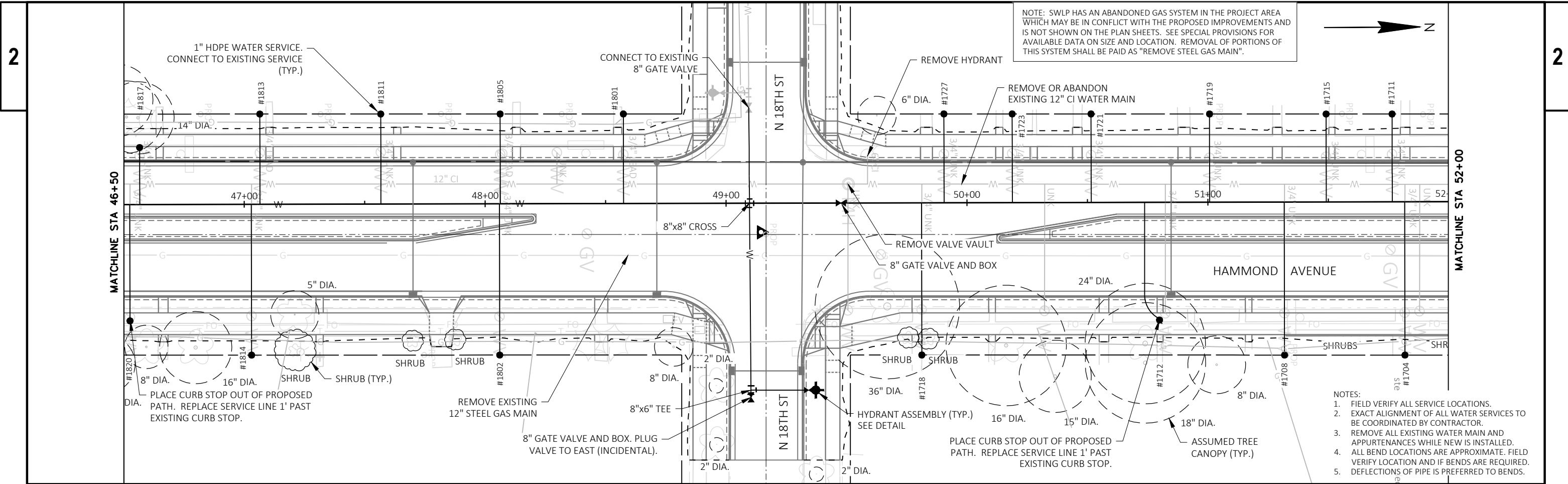


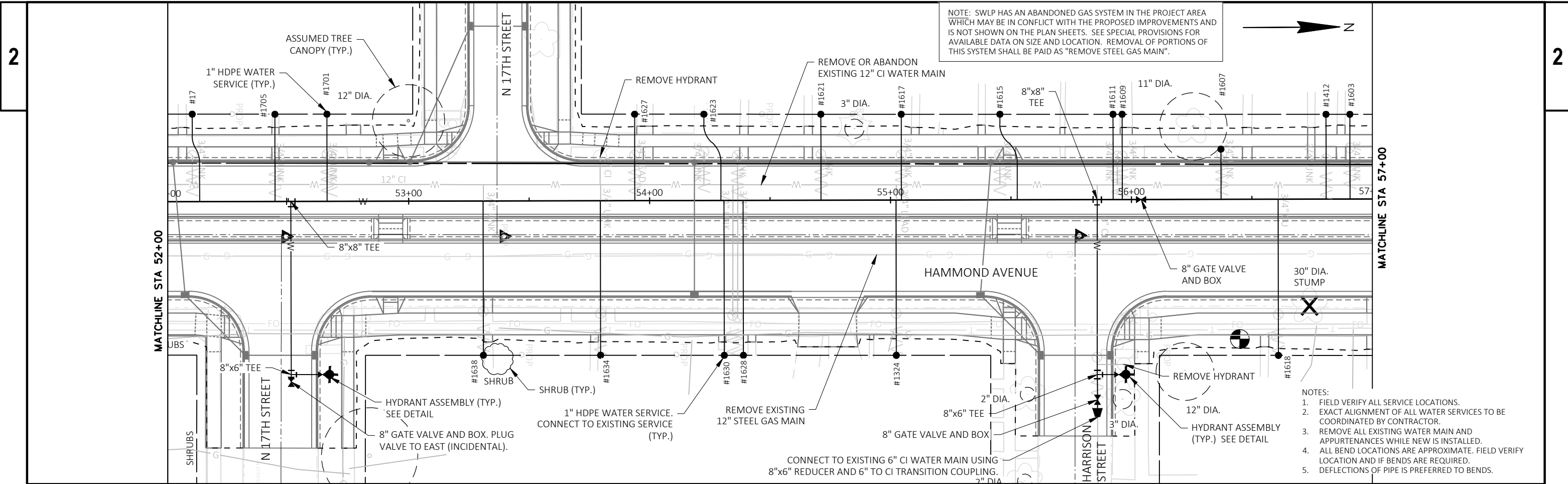
- NOTES:
1. FIELD VERIFY ALL SERVICE LOCATIONS.
 2. EXACT ALIGNMENT OF ALL WATER SERVICES TO BE COORDINATED BY CONTRACTOR.
 3. REMOVE ALL EXISTING WATER MAIN AND APPURTENANCES WHILE NEW IS INSTALLED.
 4. ALL BEND LOCATIONS ARE APPROXIMATE. FIELD VERIFY LOCATION AND IF BENDS ARE REQUIRED. DEFLECTIONS OF PIPE IS PREFERRED TO BENDS.

NOTE: SWLP HAS AN ABANDONED GAS SYSTEM IN THE PROJECT AREA WHICH MAY BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS AND IS NOT SHOWN ON THE PLAN SHEETS. SEE SPECIAL PROVISIONS FOR AVAILABLE DATA ON SIZE AND LOCATION. REMOVAL OF PORTIONS OF THIS SYSTEM SHALL BE PAID AS "REMOVE STEEL GAS MAIN".



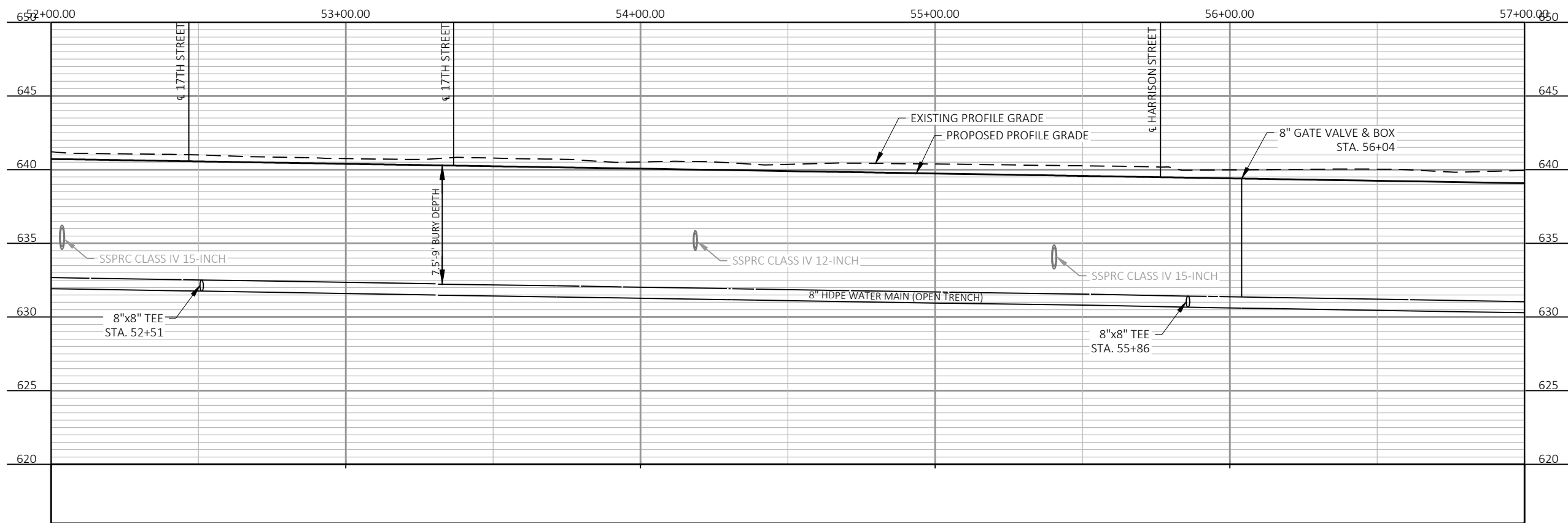


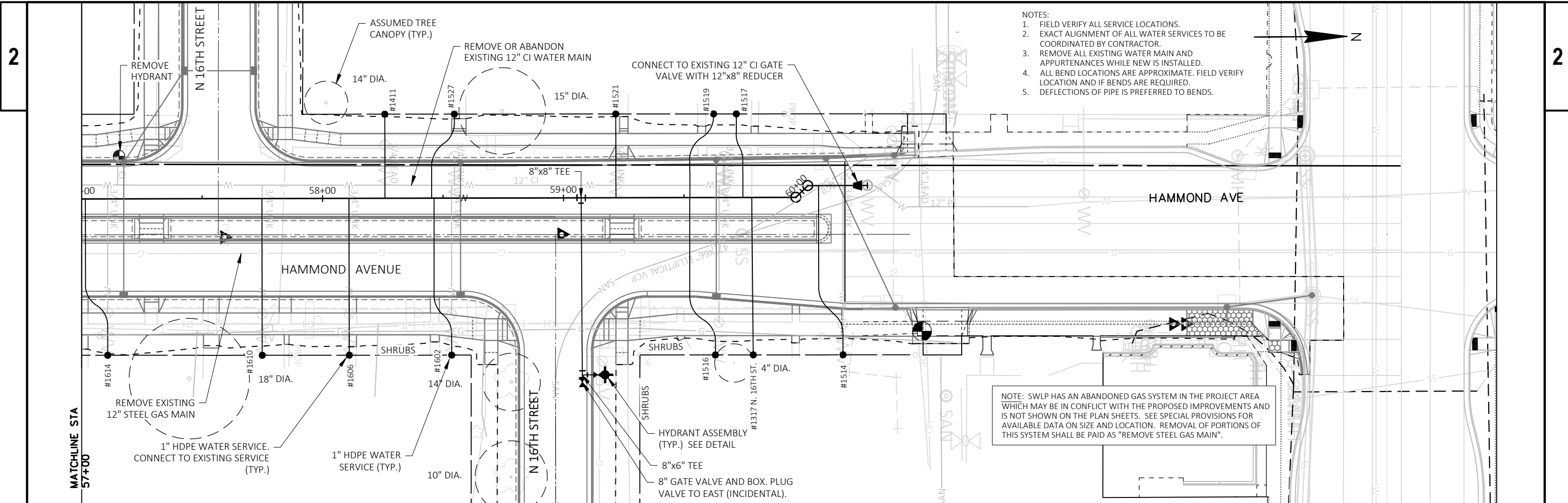




NOTE: SWLP HAS AN ABANDONED GAS SYSTEM IN THE PROJECT AREA WHICH MAY BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS AND IS NOT SHOWN ON THE PLAN SHEETS. SEE SPECIAL PROVISIONS FOR AVAILABLE DATA ON SIZE AND LOCATION. REMOVAL OF PORTIONS OF THIS SYSTEM SHALL BE PAID AS "REMOVE STEEL GAS MAIN".

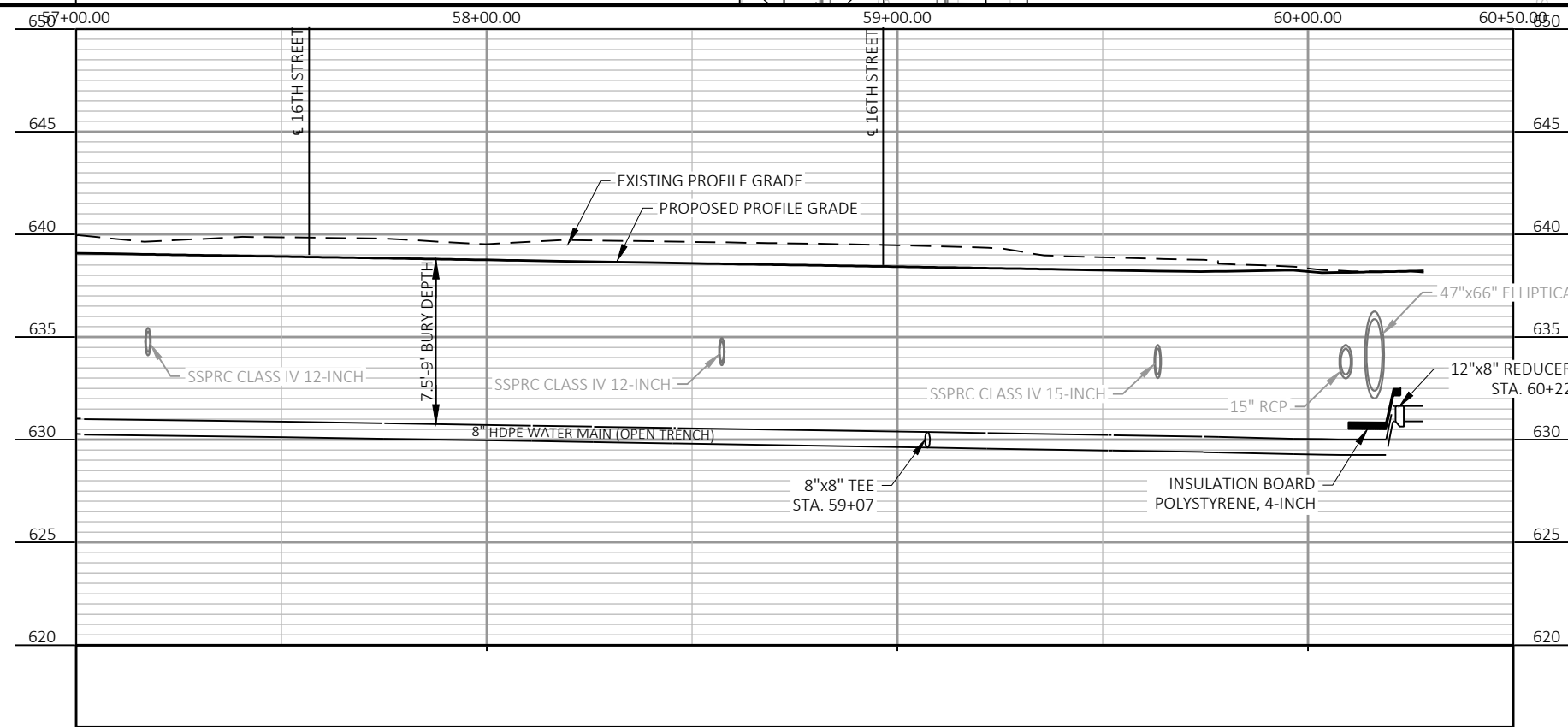
- NOTES:
1. FIELD VERIFY ALL SERVICE LOCATIONS.
 2. EXACT ALIGNMENT OF ALL WATER SERVICES TO BE COORDINATED BY CONTRACTOR.
 3. REMOVE ALL EXISTING WATER MAIN AND APPURTENANCES WHILE NEW IS INSTALLED.
 4. ALL BEND LOCATIONS ARE APPROXIMATE. FIELD VERIFY LOCATION AND IF BENDS ARE REQUIRED.
 5. DEFLECTIONS OF PIPE IS PREFERRED TO BENDS.



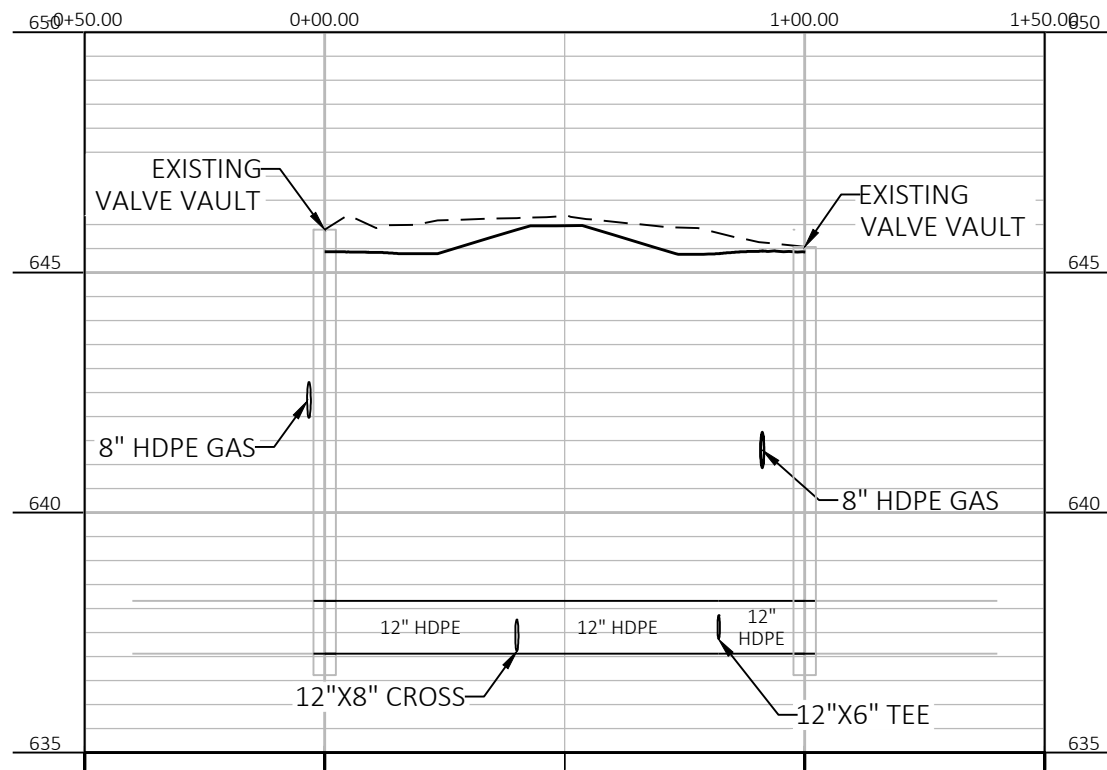


- NOTES:
1. FIELD VERIFY ALL SERVICE LOCATIONS.
 2. EXACT ALIGNMENT OF ALL WATER SERVICES TO BE COORDINATED BY CONTRACTOR.
 3. REMOVE ALL EXISTING WATER MAIN AND APPURTENANCES WHILE NEW IS INSTALLED.
 4. ALL BEND LOCATIONS ARE APPROXIMATE. FIELD VERIFY LOCATION AND IF BENDS ARE REQUIRED.
 5. DEFLECTIONS OF PIPE IS PREFERRED TO BENDS.

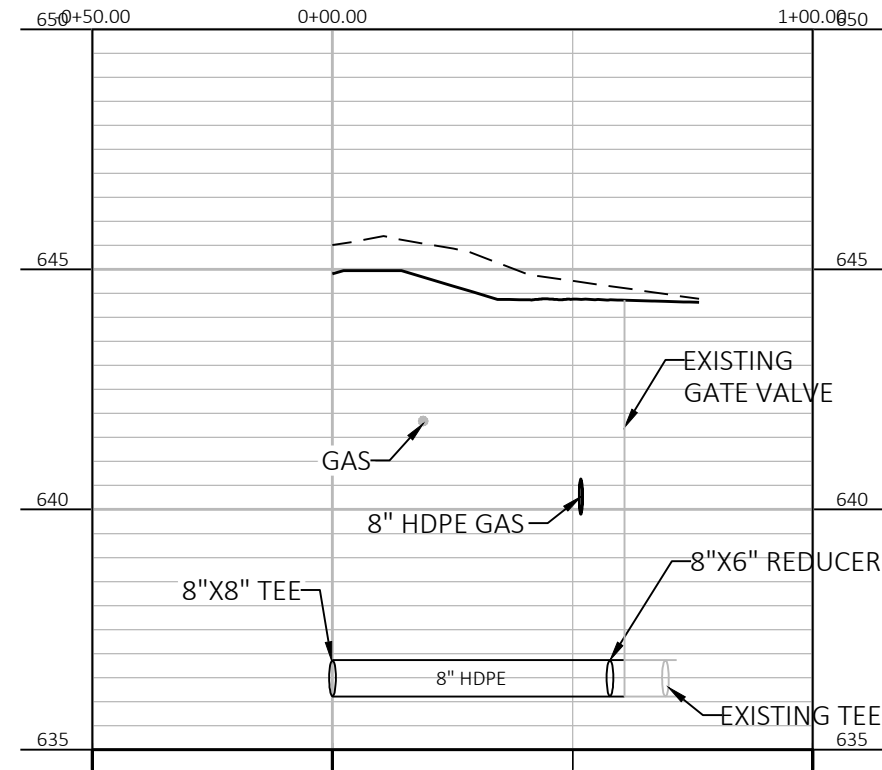
NOTE: SWLP HAS AN ABANDONED GAS SYSTEM IN THE PROJECT AREA WHICH MAY BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS AND IS NOT SHOWN ON THE PLAN SHEETS. SEE SPECIAL PROVISIONS FOR AVAILABLE DATA ON SIZE AND LOCATION. REMOVAL OF PORTIONS OF THIS SYSTEM SHALL BE PAID AS "REMOVE STEEL GAS MAIN".



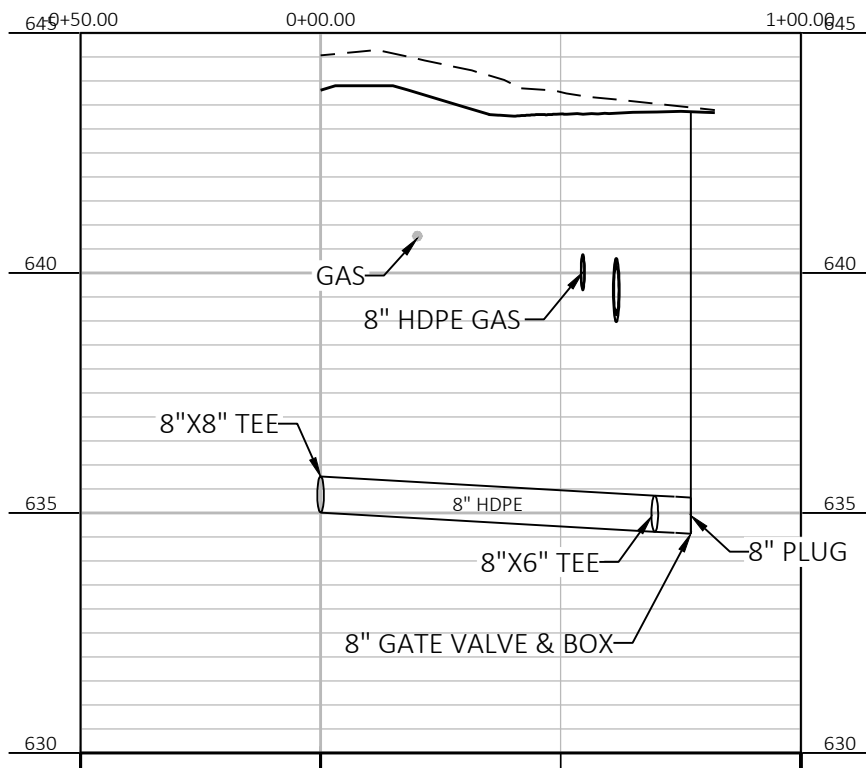
N 21ST STREET



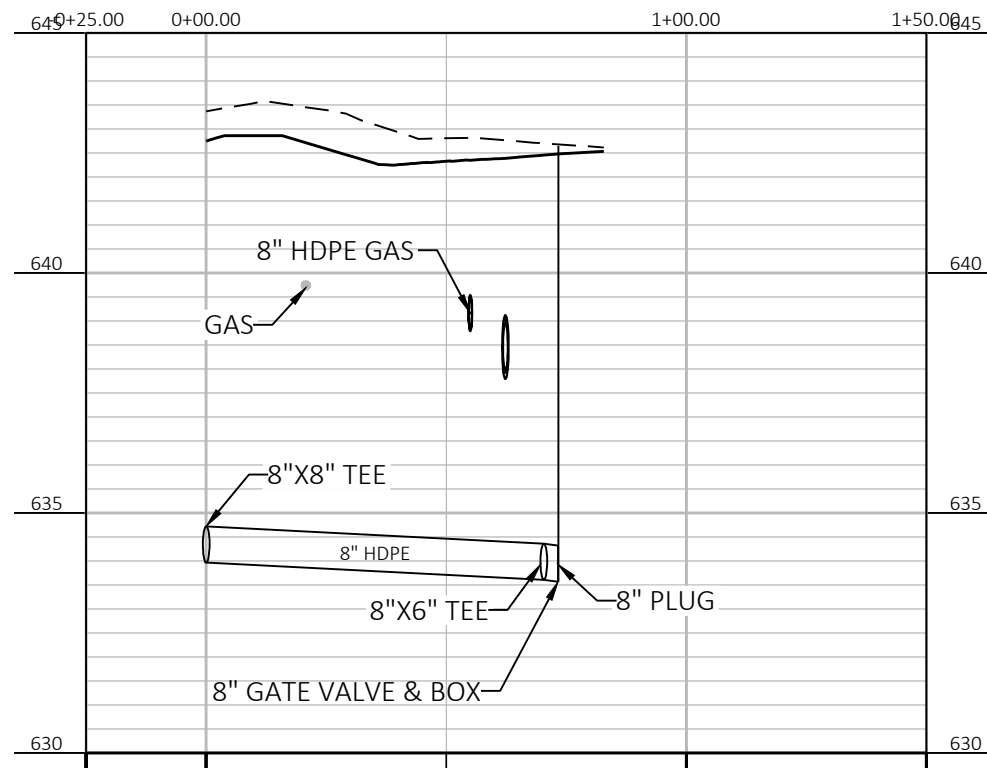
LINCOLN STREET



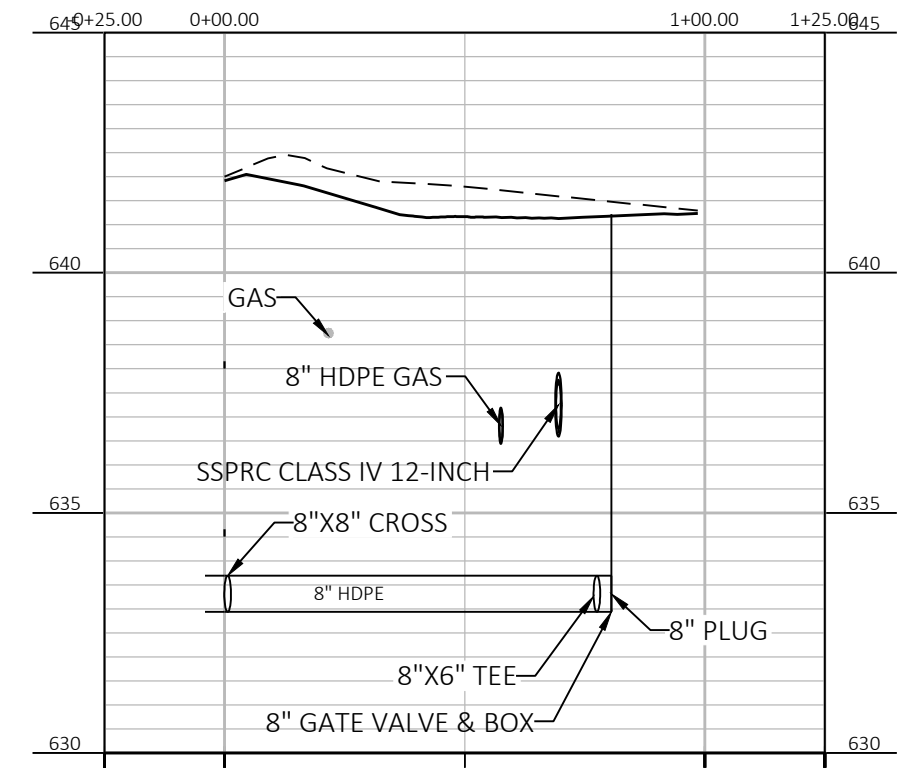
N 20TH ST (EAST)



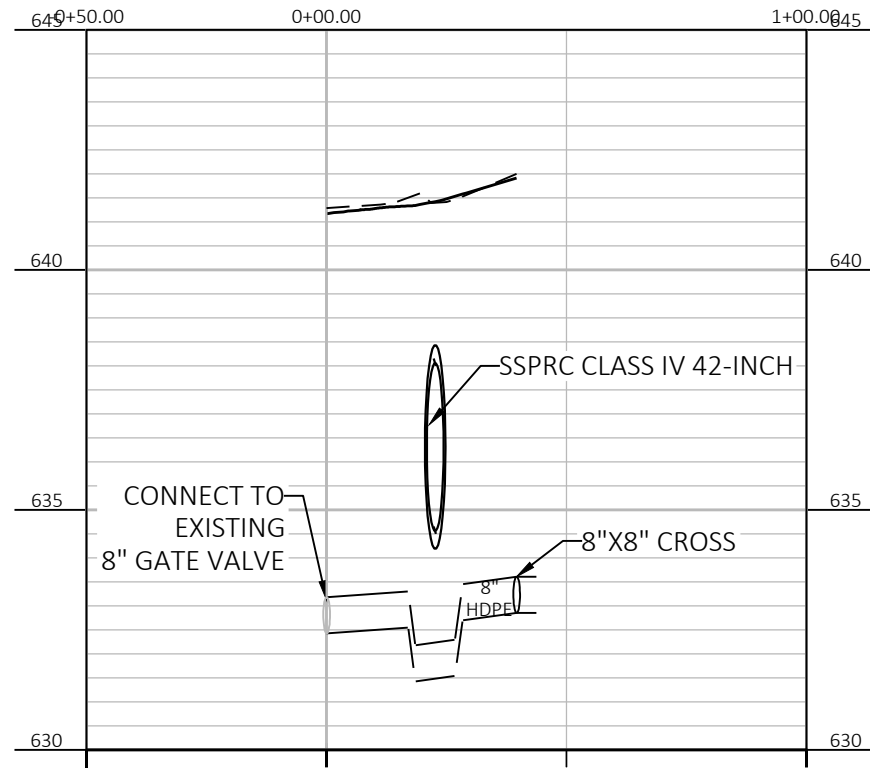
N 19TH ST (EAST)



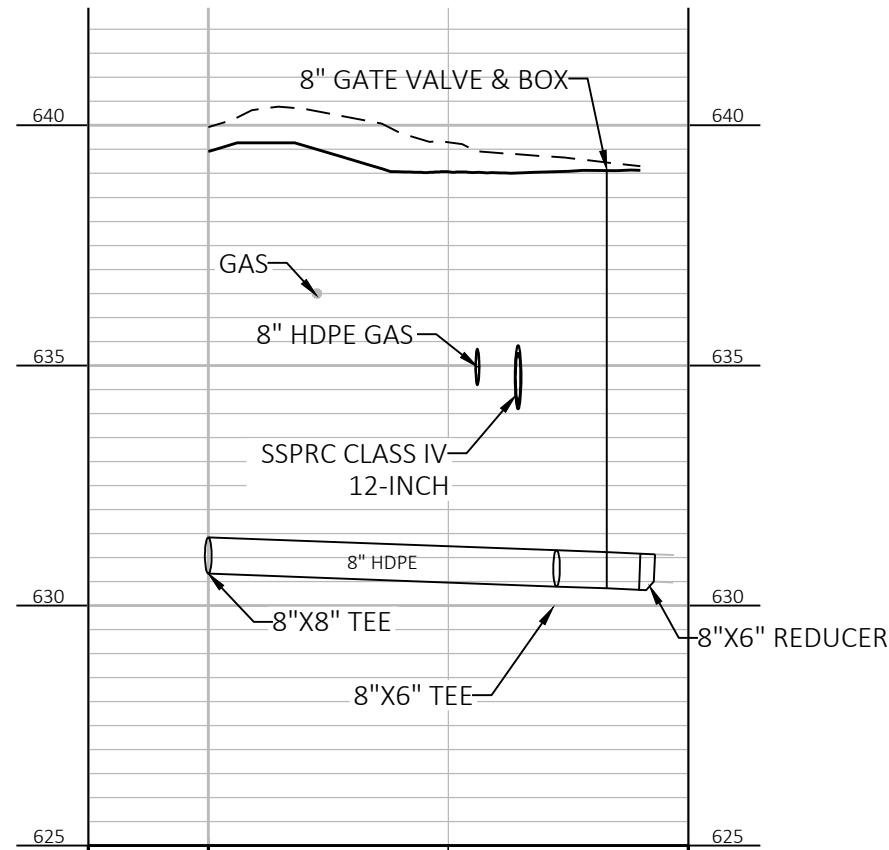
N 18TH ST (EAST)



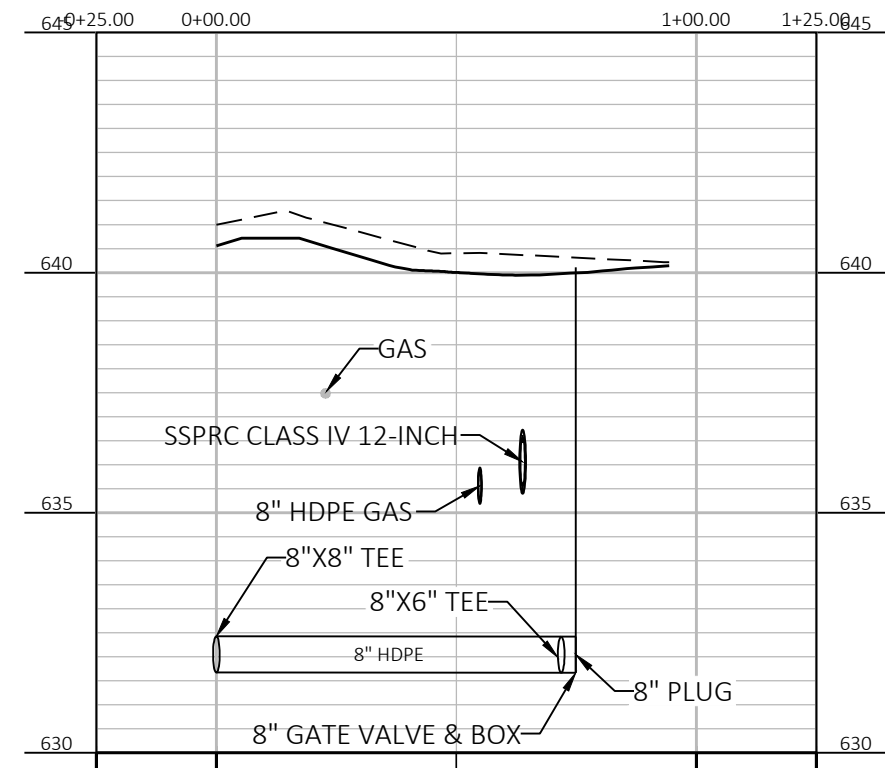
N 18TH ST (WEST)



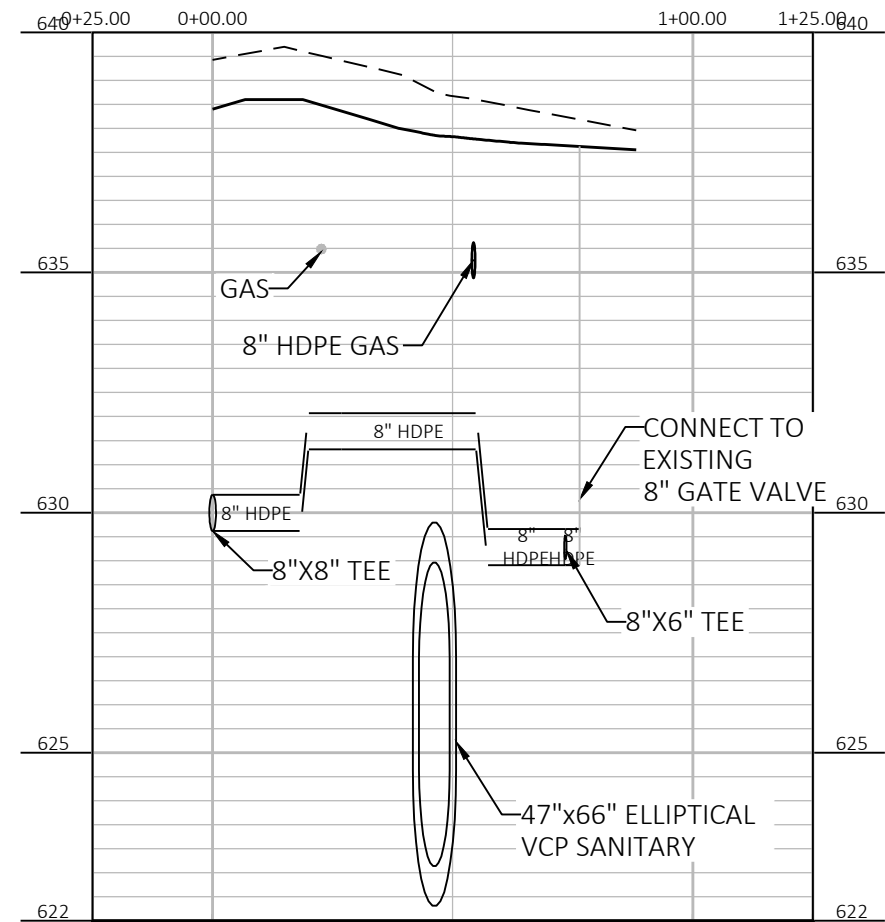
HARRISON ST

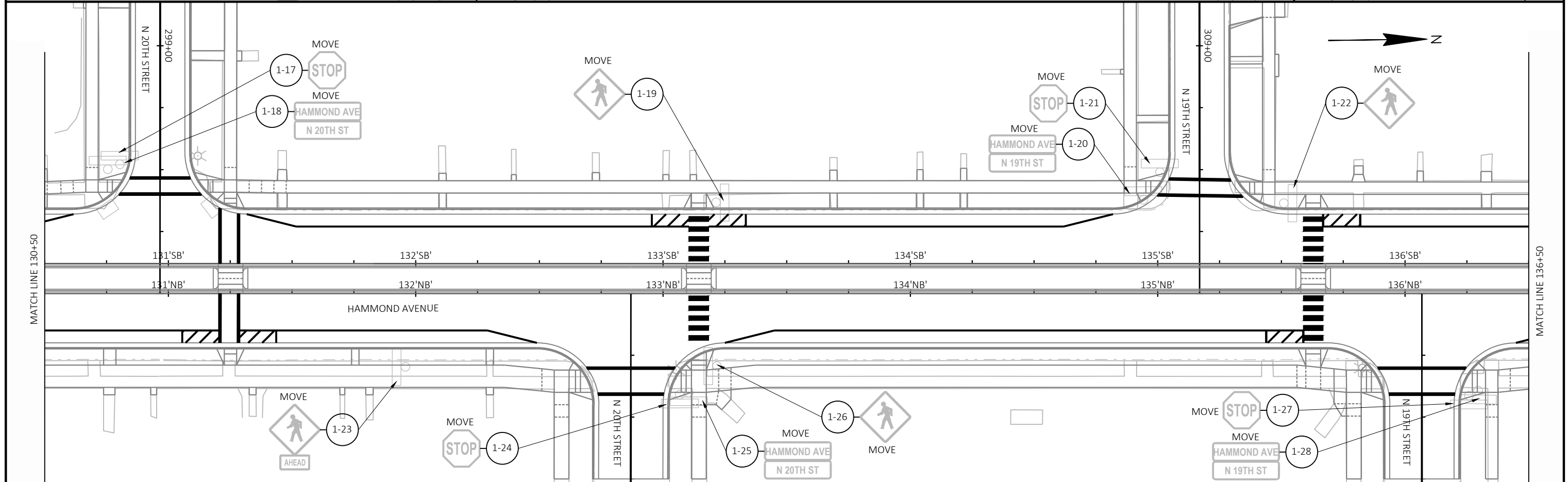
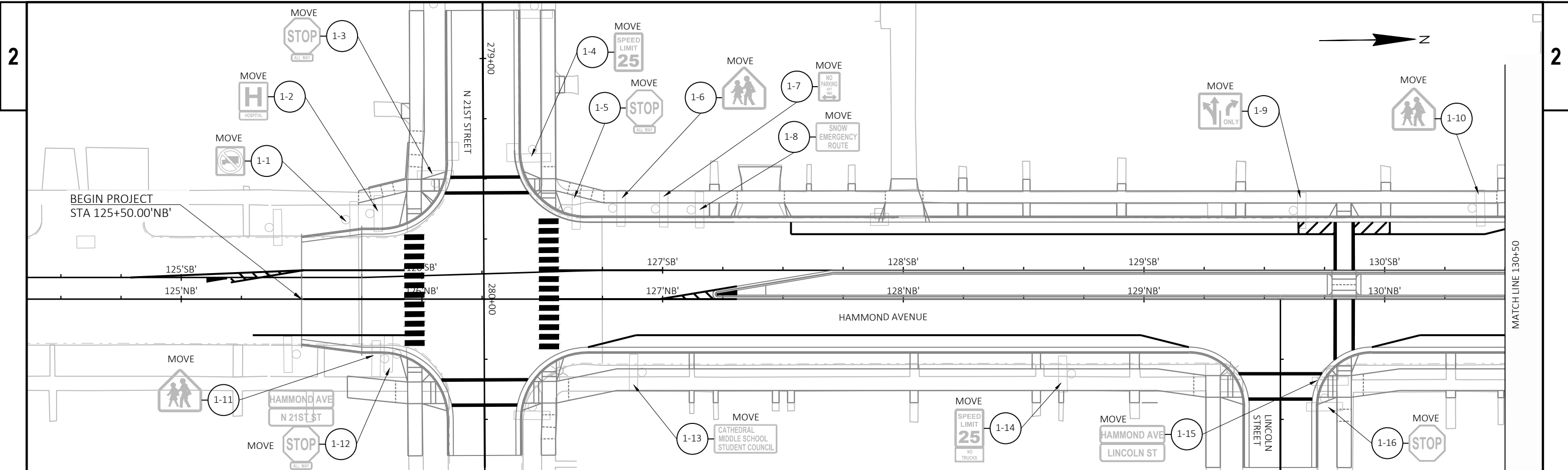


N 17TH ST (EAST)

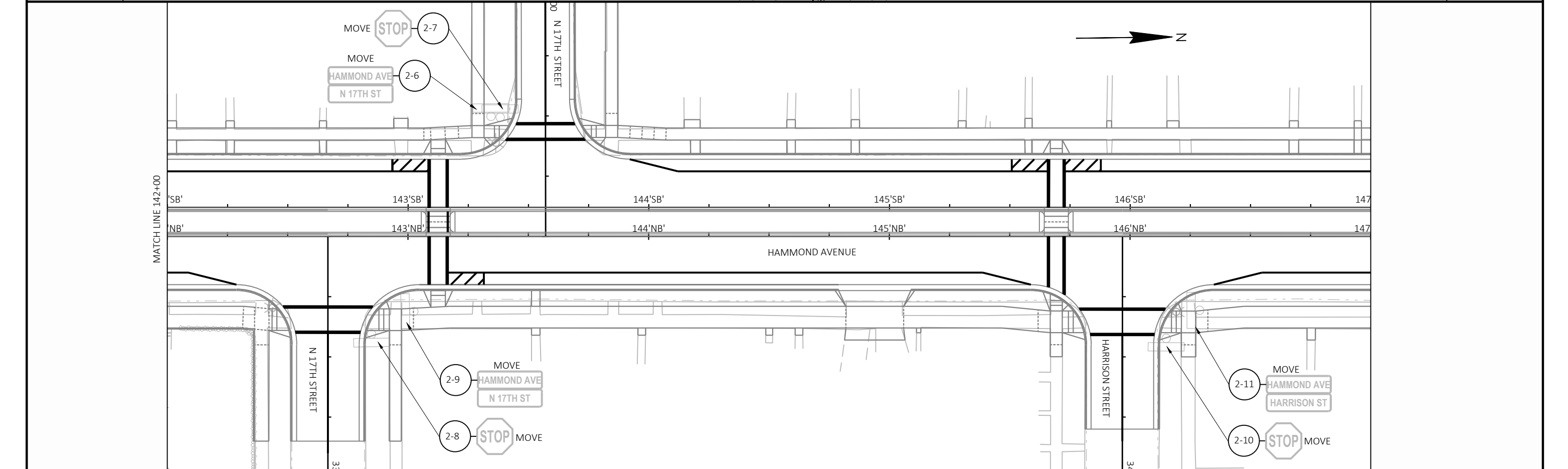
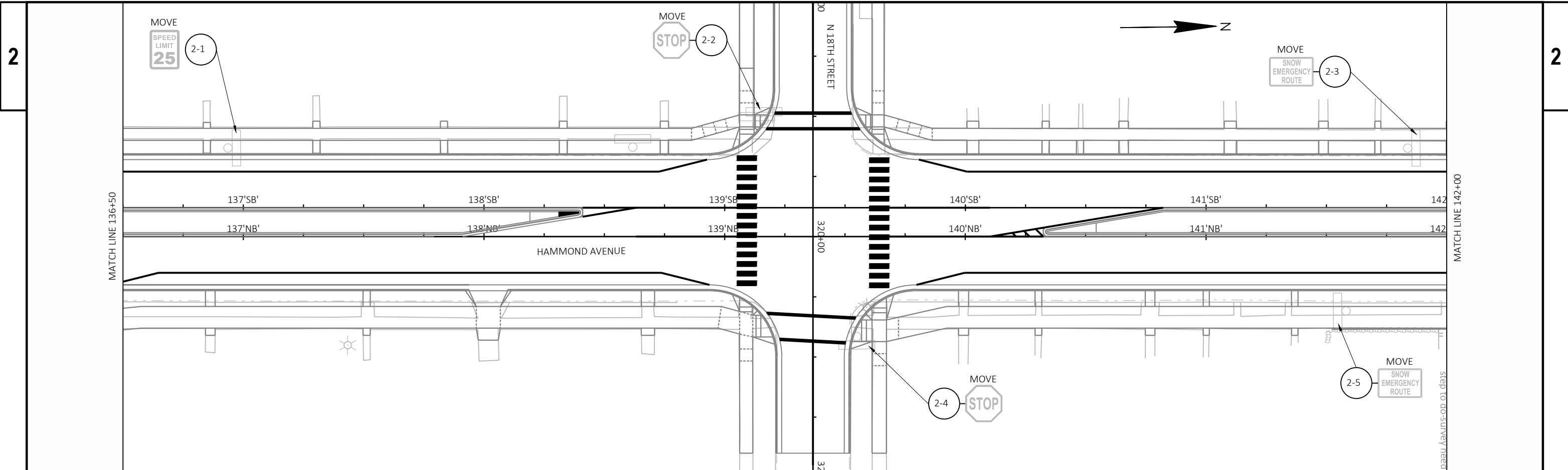


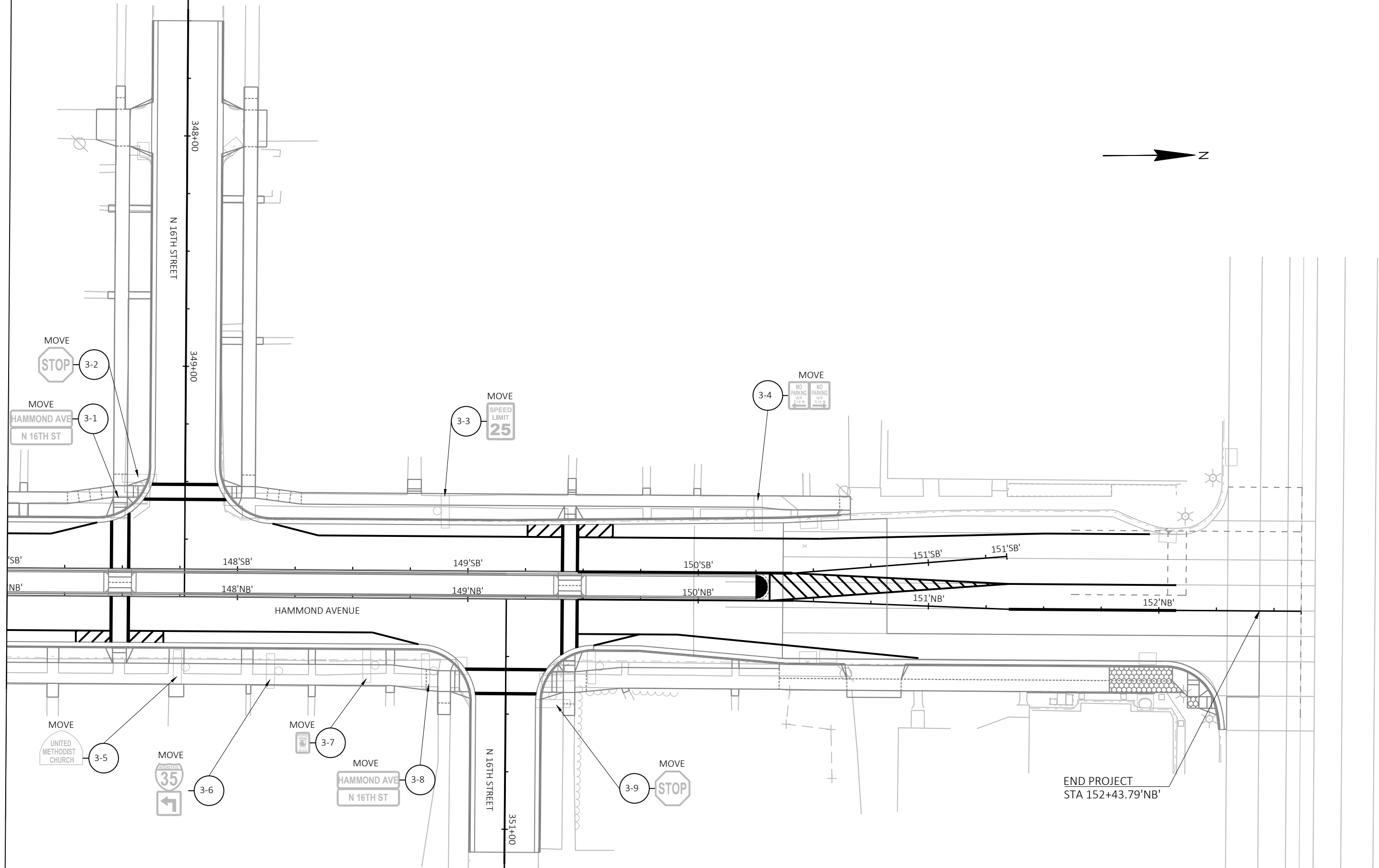
N 16TH ST (EAST)

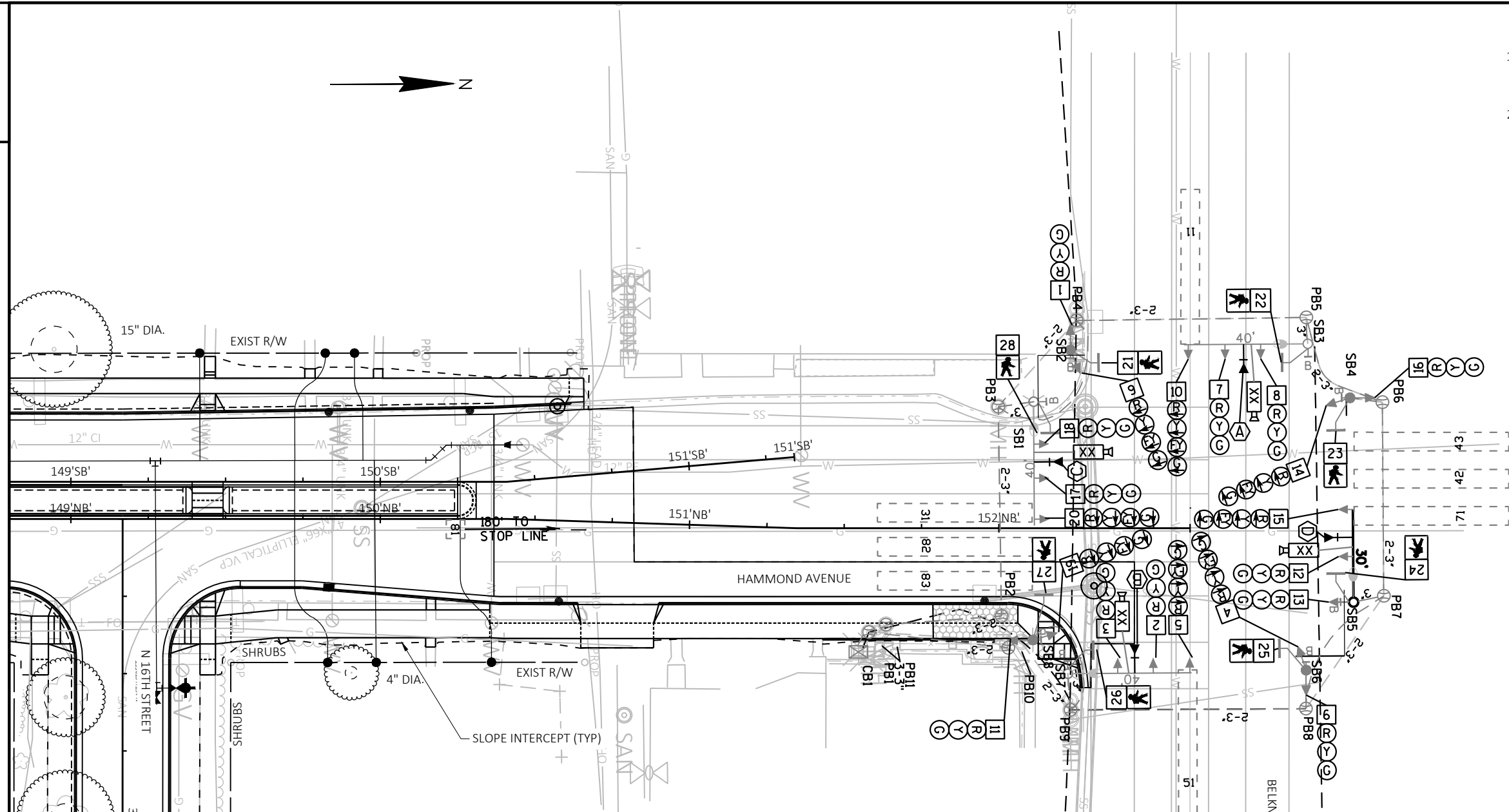




PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS PERMANENT SIGNING SHEET Page 78 of 207 E







CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. IF THE CONDUIT RUN OR PULL BOXES ON THE SOUTH SIDE OF THE INTERSECTION ARE IMPACTED, PULL BACK ALL EXISTING IMPACTED CABLES (SIGNAL CABLE, VIDEO DETECTION CABLE, EMERGENCY VEHICLE PREEMPTION (EVP) CABLE, AND GROUNDING CABLE AND COIL AND STORE IN A SAFE LOCATION. UPON COMPLETION OF THE PROJECT RESTORE THE EXISTING CABLE TO THE EXISTING CONNECTIONS. THE FOLLOWING ITEMS WILL NEED NEW RE-ROUTED CABLE IF IMPACTS ARE ENCOUNTERED.

INSTALL NEW 15-14 AWG SIGNAL CABLE TO SB1, SB2, SB3, AND SB4 AND CONNECT TO EXISTING POLE WIRING.

INSTALL NEW 10 AWG GROUNDING CABLE FROM SB1 TO CB1 IN ORDER TO HAVE A COMPLETED GROUNDING LOOP.

INSTALL NEW VIDEO DETECTION CABLE TO SB3 (V1) AND SB1 (V3) COORDINATE CABLE TYPE WITH TRAFFIC CONTROL CORPORATION.

INSTALL NEW EMERGENCY VEHICLE PREEMPTION CABLE TO SB1 (HEAD C) AND SB 3 (HEAD A).

STOP LINE
180' TO

LEGEND

	CONTROL CABINET		RED CIRCULAR INDICATOR
	NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED		YELLOW CIRCULAR INDICATOR
	SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE		GREEN CIRCULAR INDICATOR
	SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE		RED ARROW
	PEDESTRIAN HEAD WITH PUSH BUTTON		YELLOW ARROW
	PUSH BUTTON		GREEN ARROW
	LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE		DON'T WALK INDICATOR 16"
	LOOP DETECTOR IN 1" NONMETALLIC CONDUIT		WALK INDICATOR 16"
	PULL BOX, 24" X 36"		YIELD SIGN
	PULL BOX, 12" X 24"		STOP SIGN
	SIGNAL HEAD NUMBER		

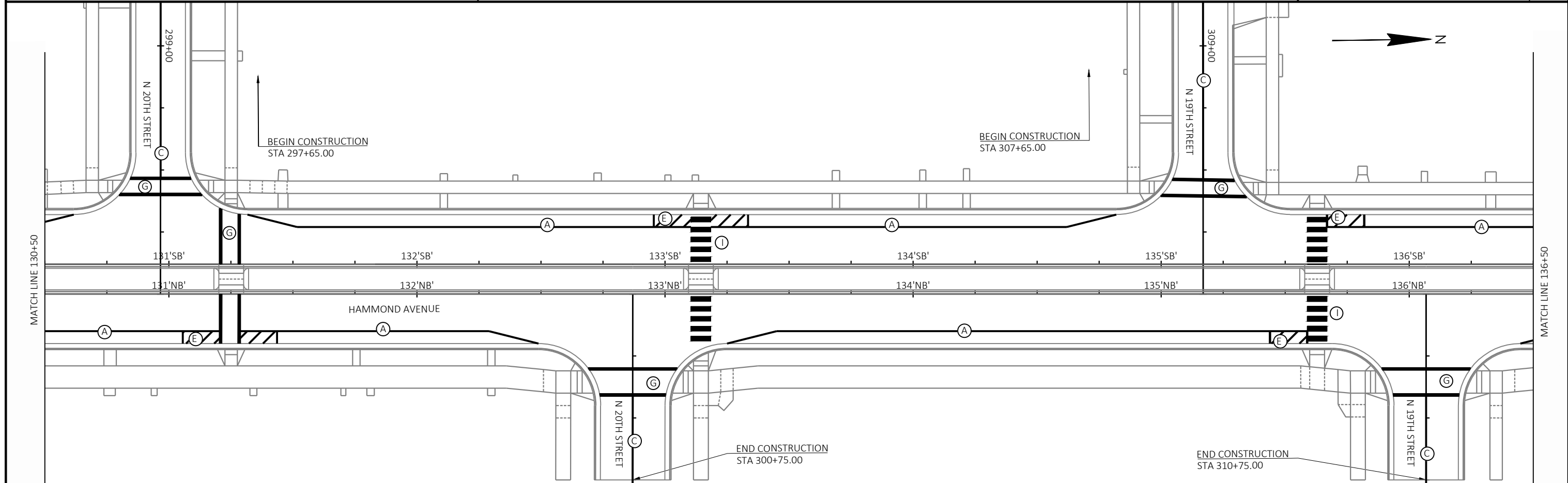
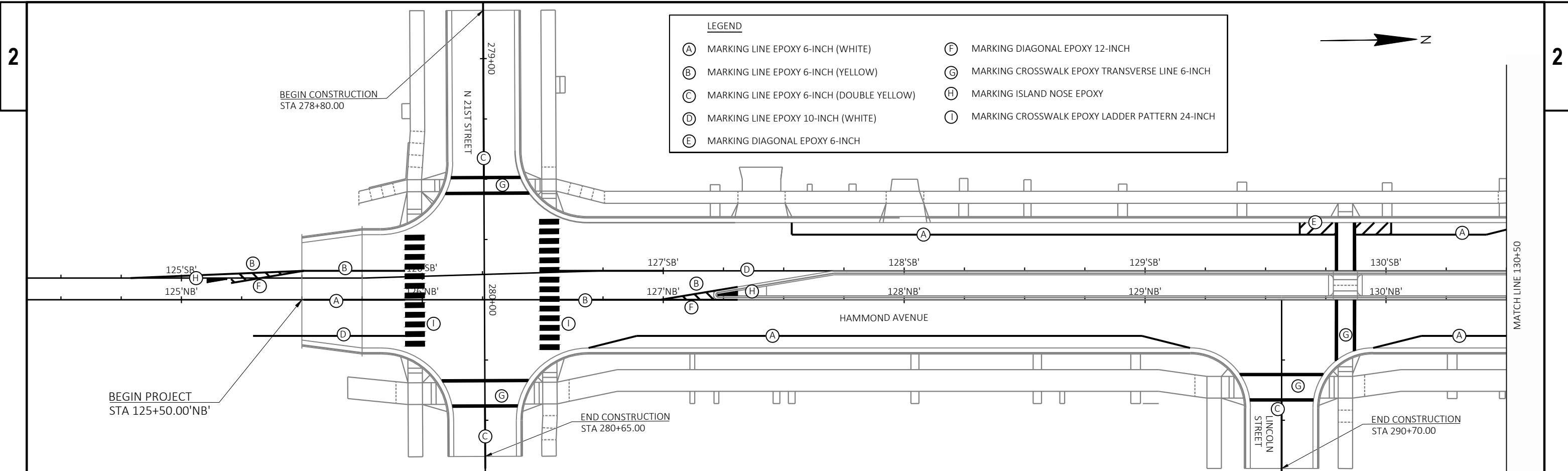
NOTES:
 • ALL LENSES ARE 12-INCH
 • GRAYSHADE REPRESENTS EXISTING

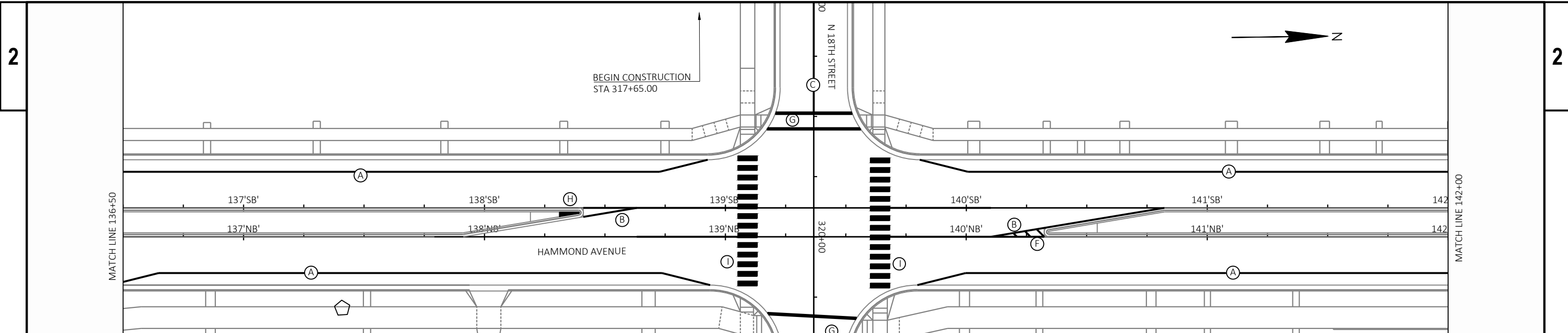
TRAFFIC CONTROL SIGNAL
HAMMOND AVE
CITY OF SUPERIOR
DOUGLASCOUNTY

SIGNAL NO. _____

REGION CONTACT: T. JANIGO
 DESIGNED BY: SEH
 REVISED BY: REVISED BY

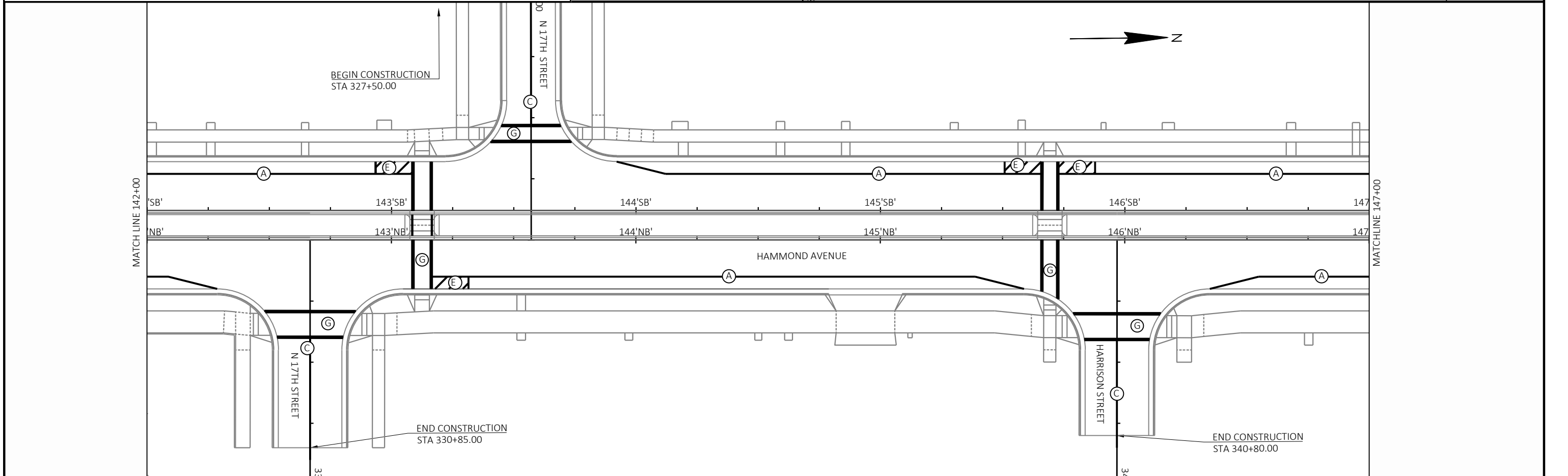
PAGE 1 OF 1





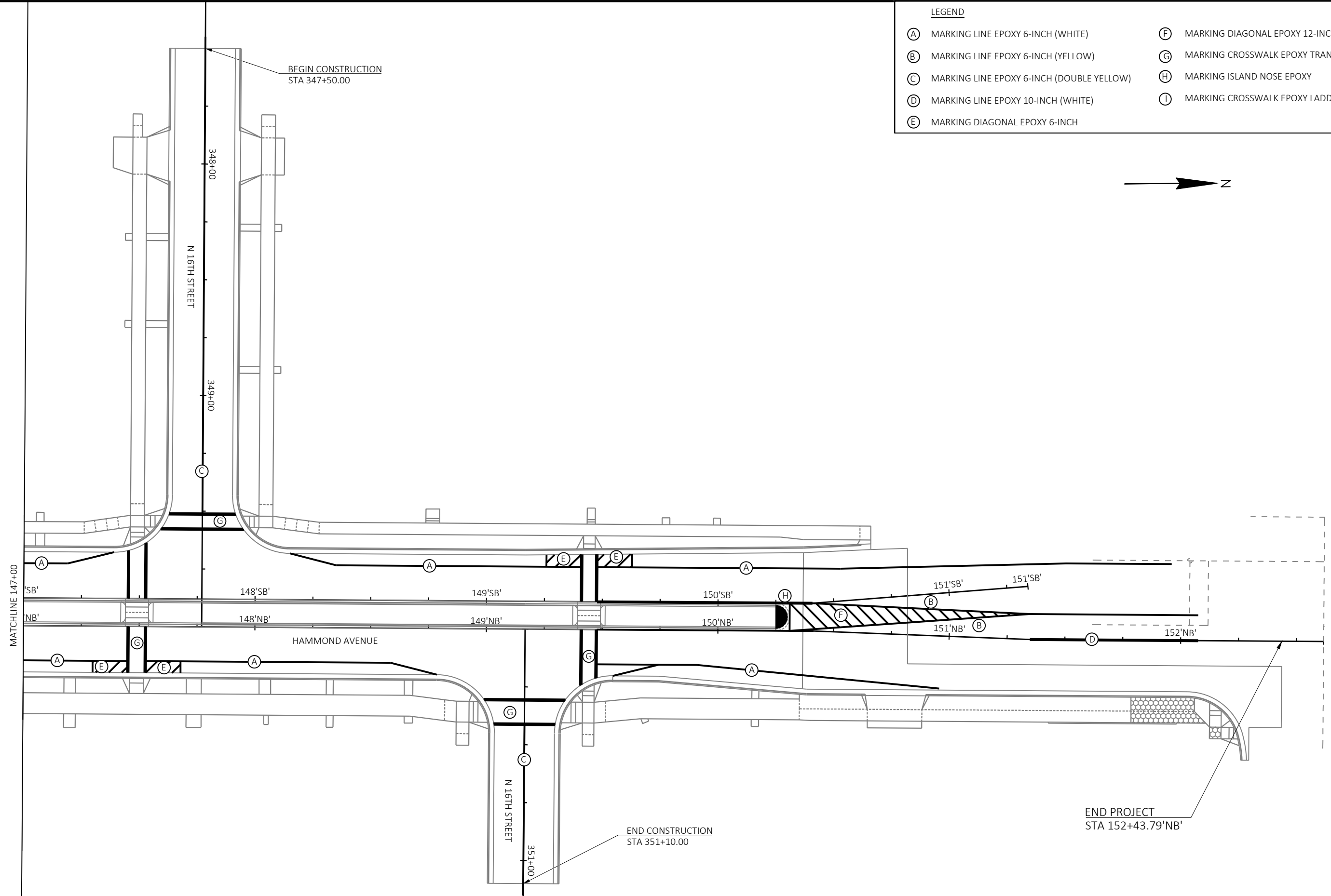
LEGEND

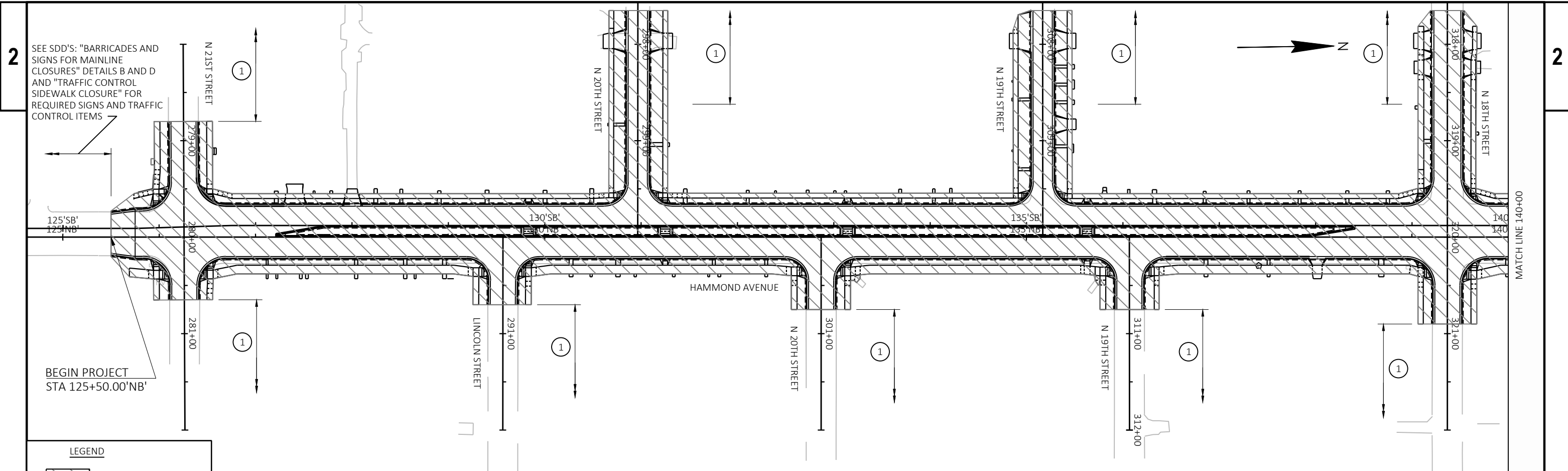
(A) MARKING LINE EPOXY 6-INCH (WHITE)	(F) MARKING DIAGONAL EPOXY 12-INCH
(B) MARKING LINE EPOXY 6-INCH (YELLOW)	(G) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
(C) MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW)	(H) MARKING ISLAND NOSE EPOXY
(D) MARKING LINE EPOXY 10-INCH (WHITE)	(I) MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH
(E) MARKING DIAGONAL EPOXY 6-INCH	



LEGEND

(A) MARKING LINE EPOXY 6-INCH (WHITE)	(F) MARKING DIAGONAL EPOXY 12-INCH
(B) MARKING LINE EPOXY 6-INCH (YELLOW)	(G) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
(C) MARKING LINE EPOXY 6-INCH (DOUBLE YELLOW)	(H) MARKING ISLAND NOSE EPOXY
(D) MARKING LINE EPOXY 10-INCH (WHITE)	(I) MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH
(E) MARKING DIAGONAL EPOXY 6-INCH	





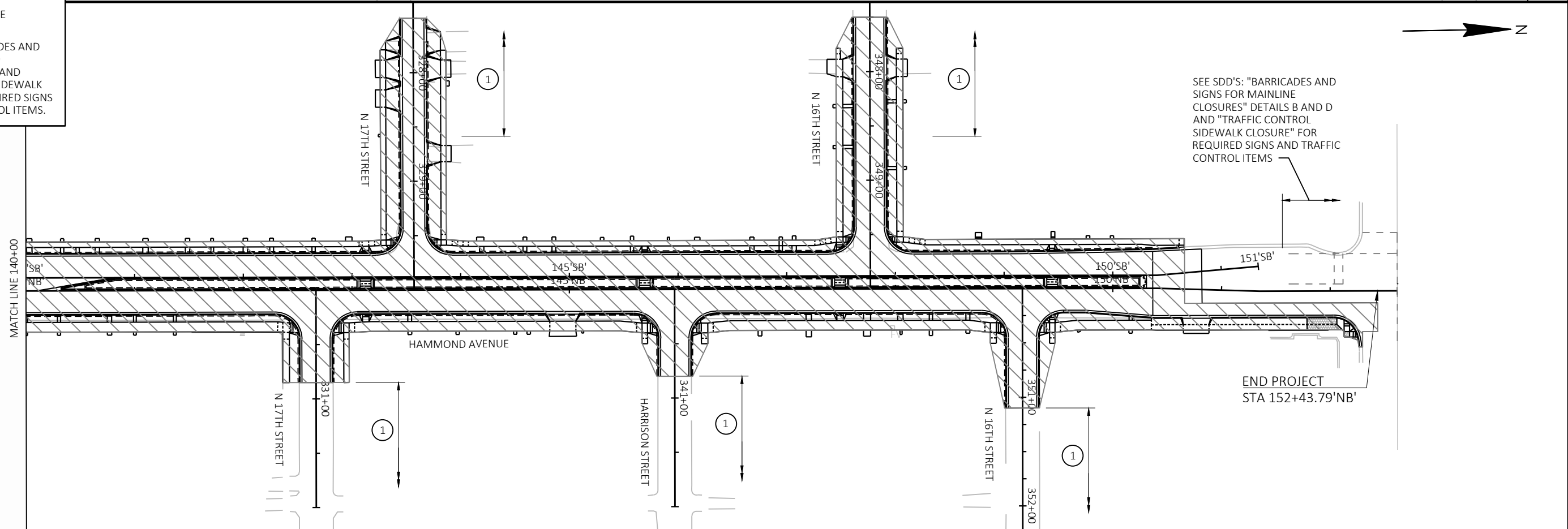


SEE SDD'S: "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAILS B AND D AND "TRAFFIC CONTROL SIDEWALK CLOSURE" FOR REQUIRED SIGNS AND TRAFFIC CONTROL ITEMS

BEGIN PROJECT STA 125+50.00'NB'

LEGEND

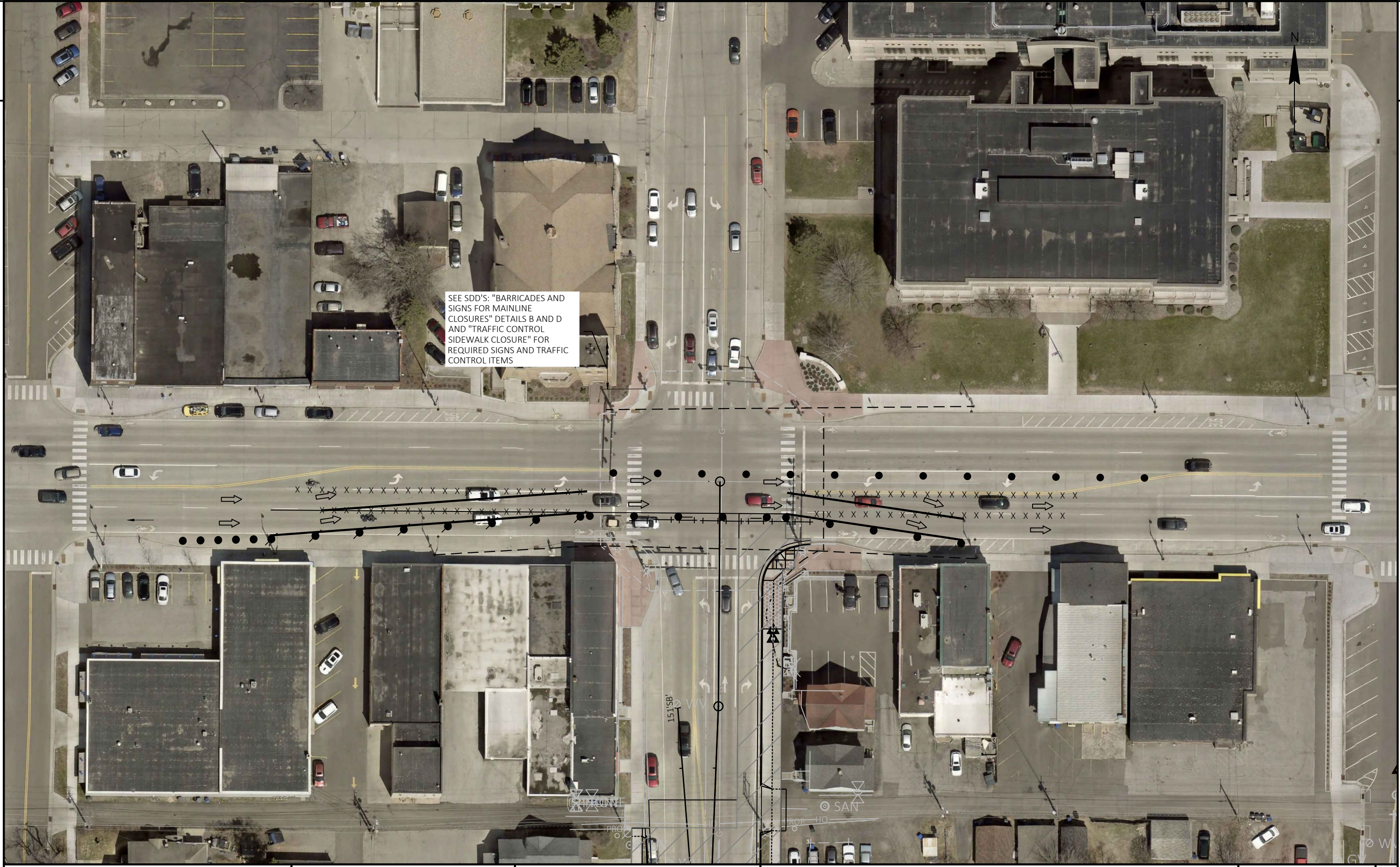
-  WORK ZONE
-  SEE SDD'S: "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" DETAIL 1 AND "TRAFFIC CONTROL SIDEWALK CLOSURE" FOR REQUIRED SIGNS AND TRAFFIC CONTROL ITEMS.



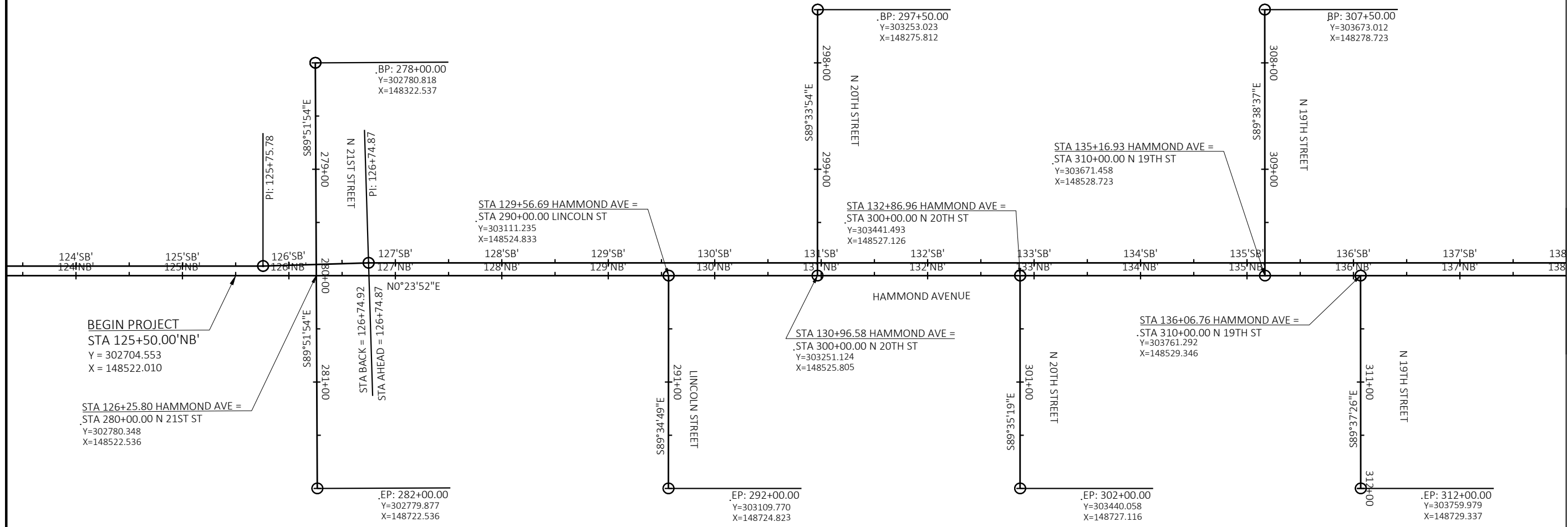
SEE SDD'S: "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAILS B AND D AND "TRAFFIC CONTROL SIDEWALK CLOSURE" FOR REQUIRED SIGNS AND TRAFFIC CONTROL ITEMS

END PROJECT STA 152+43.79'NB'

SEE SDD'S: "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAILS B AND D AND "TRAFFIC CONTROL SIDEWALK CLOSURE" FOR REQUIRED SIGNS AND TRAFFIC CONTROL ITEMS

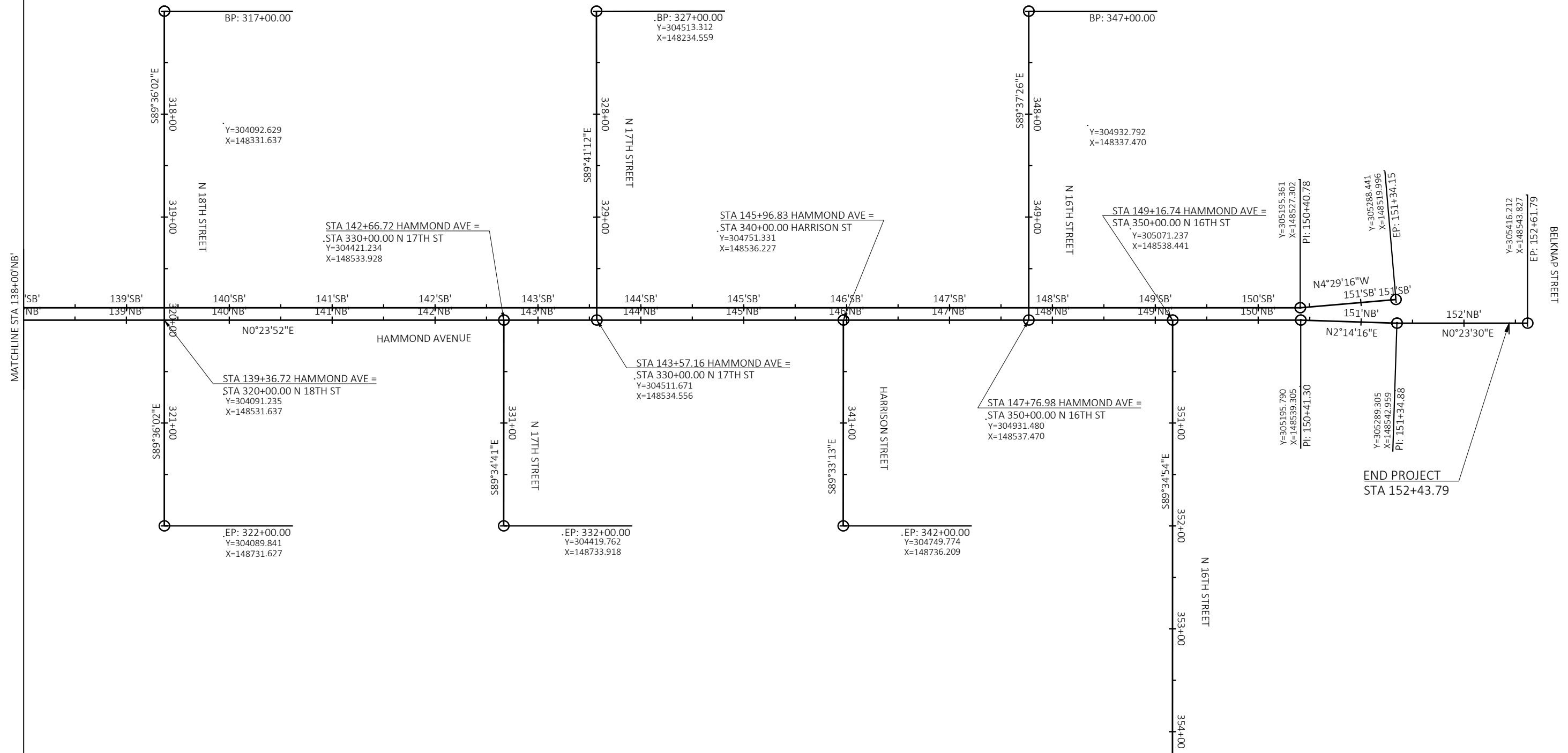
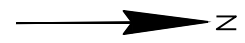


PROJECT NO: ----	HWY: HAMMOND AVE	COUNTY: DOUGLAS	TRAFFIC CONTROL	SHEET Page 86 of 207 E
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MATCHLINE STA 138+00'NB'

PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	ALIGNMENT	SHEET Page 87 of 207	E
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3

CLEARING AND GRUBBING

CATEGORY	STATION	LOCATION	201.0120 CLEARING ID	201.0220 GRUBBING ID	REMARKS
0010	127+77	RT	7	7	
0010	132+69	LT		30	STUMP
0011	137+45	RT	5	5	
0010	146+94	RT		30	STUMP
TOTAL 0010			12	72	

* NO TREES TO BE REMOVED WITHIN THE PROJECT LIMITS WITHOUT THE APPORVAL OF THE ENGINEER.

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	REMARKS
0010	128+00	LT	5	
0010	297+98	LT & RT	84	N 20TH STREET
0010	300+41	LT	6	N 20TH STREET
0010	307+97	LT & RT	107	N 19TH STREET
0010	310+41	RT	5	N 19TH STREET
0010	328+75	LT	28	N 17TH STREET
0010	347+95	LT & RT	18	N 16TH STREET
TOTAL 0010			253	

3

REMOVING CONCRETE PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	REMARKS
0010	125+74	-	126+75	LT & RT	1,112	INCLUDES N 21ST ST
0010	127+40	-		LT	29	
0010	308+82	-		LT	23	N 19TH STREET
0010	150+36	-	152+43	LT & RT	530	
TOTAL 0010					1,694	

NOTE: CONCRETE CURB & GUTTER INCLUDED IN REMOVING CONCRETE PAVEMENT AT N 21ST STREET AND BELKNAP STREET

REMOVING CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0150 REMOVING CURB & GUTTER LF	REMARKS
0010	126+75	-	129+35	RT	257	
0010	126+75	-	130+75	LT	400	
0010	129+81	-	132+60	RT	280	
0010	131+19	-	134+97	LT	378	
0010	135+40	-	139+06	LT	367	
0010	133+12	-	135+80	RT	268	
0010	136+32	-	139+06	RT	275	
0010	139+61	-	143+31	LT	370	
0010	139+62	-	142+44	RT	283	
0010	142+91	-	145+72	RT	281	
0010	143+83	-	147+55	LT	372	
0010	146+22	-	148+95	RT	273	
0010	148+01	-	149+98	LT	197	
0010	149+41	-	149+98	RT	57	
0010	290+27	-	290+70	LT & RT	100	LINCOLN STREET
0010	297+65	-	299+66	LT & RT	410	N 20TH STREET
0010	300+27	-	300+75	LT & RT	110	N 20TH STREET
0010	307+65	-	309+66	LT & RT	412	N 19TH STREET
0010	310+26	-	310+75	LT & RT	110	N 19TH STREET
0010	317+65	-	319+66	LT & RT	416	N 18TH STREET
0010	320+26	-	320+90	LT & RT	145	N 18TH STREET
0010	330+27	-	330+85	LT & RT	124	N 17TH STREET
0010	327+50	-	329+67	LT & RT	402	N 17TH STREET
0010	340+26	-	340+80	LT & RT	118	HARRISON STREET
0010	347+50	-	349+67	LT & RT	420	N 16TH STREET
0010	350+26	-	351+10	LT & RT	175	N 16TH STREET
TOTAL 0010					7,000	

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3

REMOVING STORM SEWER

CATEGORY	STATION	STRUCTURE	LOCATION	204.0280	204.0210	204.0220	204.0245.01	204.0245.02	204.0245.03	204.0245.04	REMARKS
				SEALING PIPES EACH	REMOVING MANHOLES EACH	REMOVING INLETS EACH	REMOVING STORM SEWER (SIZE) (6-INCH RCP) LF	REMOVING STORM SEWER (SIZE) (10-INCH RCP) LF	REMOVING STORM SEWER (SIZE) (12-INCH RCP) LF	REMOVING STORM SEWER (SIZE) (15-INCH RCP) LF	
0020	126+11.22	30B	58.63' LT			1			10		12" RCP
0020	126+40.21	30A	61.37' LT			1			20		12" RCP
0020	126+20.10	30	58.67' LT		1						
0020	127+90.00	EX1	35.50' LT			1		15			10" VCP
0020	130+74.00	EX3	35.8'0 LT					15			10" VCP
0020	131+19.00	EX3G	36.20' LT			1	45				6" VCP
0020	148+97.00	EX18	29.40' RT			1			60		12" VCP
0020	150+46.50	24	36.0' LT		1					63	15" RCP PIPE 100 - ABANDONED/FILLED
0020	150+48.00	EX	26.0' RT			1					
0020	150+59.00	EX	26.0' RT			1				62	15" RCP
0020	151+95.00	EX	23.0' RT			1					
	UNDISTRIBUTED			2							
TOTAL 0020				2	2	8	45	30	90	125	

ABANDONING SEWER

CATEGORY	STATION	LOCATION	204.0291.S	REMARKS
			ABANDONING SEWER CY	
0020	127+90	LT	13	INL - SAN ALLEY
0020	130+74	LT	13	INL - SAN ALLEY
TOTAL 0010			26	

3

REMOVING CONCRETE SIDEWALK

204.0155
REMOVING
CONCRETE
SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS
0010	125+75	-	125+94	LT & RT	24	
0010	126+56	-	129+26	RT	198	
0010	126+58	-	130+66	LT	271	
0010	129+86	-	132+56	RT	168	
0010	131+27	-	134+86	LT	226	
0010	133+18	-	135+76	RT	148	
0010	135+48	-	139+06	LT	223	
0010	136+38	-	139+06	RT	171	
0010	139+67	-	142+37	RT	186	
0010	139+67	-	143+26	LT	230	
0010	142+97	-	145+67	RT	205	
0010	143+87	-	147+46	LT	224	
0010	146+27	-	148+87	RT	175	
0010	148+08	-	150+65	LT	176	
0010	149+47	-	152+25	RT	278	
0010	278+80	-	279+72	LT & RT	130	N 21TH STREET
0010	280+20	-	280+65	LT & RT	62	N 21TH STREET
0010	290+27	-	290+70	LT & RT	69	LINCOLN STREET
0010	297+65	-	299+66	LT & RT	257	N 20TH STREET
0010	300+27	-	300+75	LT & RT	69	N 20TH STREET
0010	307+65	-	309+66	LT & RT	264	N 19TH STREET
0010	310+26	-	310+75	LT & RT	68	N 19TH STREET
0010	317+65	-	319+66	LT & RT	291	N 18TH STREET
0010	320+26	-	320+90	LT & RT	88	N 18TH STREET
0010	330+27	-	330+85	LT & RT	79	N 17TH STREET
0010	327+50	-	329+67	LT & RT	234	N 17TH STREET
0010	340+26	-	340+80	LT & RT	72	HARRISON STREET
0010	347+50	-	349+67	LT & RT	263	N 16TH STREET
0010	350+26	-	351+10	LT & RT	101	N 16TH STREET
TOTAL 0010					4,950	

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EXCAVATION COMMON

205.0100
EXCAVATION
COMMON

CATEGORY	STATION	TO	STATION	LOCATION	COMMON CY	EXPANDED FILL CY	REMARKS
0010	125+50	-	152+44	N21st - ALLEY SOUTH OF BELKNAP ST	20,800	100.00	INCLUDES SIDE STREETS MAINLINE SIDEWALK AREA NORTH OF ALLEY
TOTAL 0010					20,800		

3

FINISHING ROADWAY

213.0100.01
FINISHING
ROADWAY
(PROJECT) (01.
TBD)

CATEGORY	STATION	TO	STATION	LOCATION	EACH	REMARKS
0010	125+75	-	150+36.74	LT & RT	1	
TOTAL 0010					1	

BASE AGGREGATE OPEN-GRADED

310.0110
BASE
AGGREGATE
OPEN-GRADED

CATEGORY	STATION	TO	STATION	LOCATION	TON	REMARKS
0010	150+37	-	152+44	LT & RT	150	
TOTAL 0010					150	

BASE AGGREGATE

305.0120 312.0110
BASE
AGGREGATE
DENSE 1 1/4- INCH
SELECT CRUSHED
MATERIAL

CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	REMARKS
0010	125+75	-	129+56	LT & RT	1,210	1,561	
0010	129+56	-	130+96	LT & RT	386	551	
0010	130+96	-	132+86	LT & RT	524	747	
0010	132+86	-	135+16	LT & RT	631	899	
0010	135+16	-	136+06	LT & RT	250	357	
0010	136+06	-	139+36	LT & RT	939	1,343	
0010	139+36	-	142+66	LT & RT	942	1,343	
0010	142+66	-	143+57	LT & RT	251	359	
0010	143+57	-	145+96	LT & RT	658	938	
0010	145+96	-	147+76	LT & RT	496	707	
0010	147+76	-	149+16	LT & RT	379	542	
0010	149+16	-	150+36	LT & RT	601	868	
0010	278+80	-	279+65	LT & RT	172	224	N 21TH STREET
0010	280+24	-	280+65	LT & RT	90	124	N 21TH STREET
0010	290+24	-	290+70	LT & RT	95	129	LINCOLN STREET
0010	297+65	-	299+65	LT & RT	326	414	N 20TH STREET
0010	300+24	-	300+75	LT & RT	105	141	N 20TH STREET
0010	307+65	-	309+65	LT & RT	329	414	N 19TH STREET
0010	310+24	-	310+75	LT & RT	105	141	N 19TH STREET
0010	317+65	-	319+65	LT & RT	407	540	N 18TH STREET
0010	320+24	-	320+90	LT & RT	138	185	N 18TH STREET
0010	330+24	-	330+85	LT & RT	124	166	N 17TH STREET
0010	327+50	-	329+65	LT & RT	340	444	N 17TH STREET
0010	340+24	-	340+50	LT & RT	105	153	HARRISON STREET
0010	347+50	-	349+65	LT & RT	415	540	N 16TH STREET
0010	350+24	-	350+50	LT & RT	154	230	N 16TH STREET
0010	127+40	-	-	LT	11	-	DRIVEWAY
0010	128+00	-	-	LT	8	-	DRIVEWAY
0010	138+01	-	-	RT	6	-	DRIVEWAY
0010	144+93	-	-	RT	12	-	DRIVEWAY
0010	150+78	-	-	RT	6	-	DRIVEWAY
0010	297+96	-	-	LT	14	-	ALLEY
0010	297+96	-	-	RT	13	-	ALLEY
0010	307+96	-	-	LT	13	-	ALLEY
0010	307+96	-	-	RT	22	-	ALLEY
0010	308+83	-	-	LT	10	-	DRIVEWAY
0010	317+96	-	-	LT	11	-	ALLEY
0010	317+96	-	-	RT	10	-	ALLEY
0010	318+23	-	-	LT	8	-	DRIVEWAY
0010	318+23	-	-	RT	8	-	DRIVEWAY
0010	327+73	-	-	LT	10	-	DRIVEWAY
0010	327+74	-	-	RT	6	-	DRIVEWAY
0010	327+96	-	-	LT	13	-	ALLEY
0010	327+96	-	-	RT	13	-	ALLEY
0010	328+23	-	-	RT	13	-	DRIVEWAY
0010	328+74	-	-	LT	12	-	DRIVEWAY
0010	347+96	-	-	LT	10	-	ALLEY
0010	347+96	-	-	RT	12	-	ALLEY
TOTAL 0010					10,413	14,060	

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CONCRETE PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	415.0090	415.0100	REMARKS
					CONCRETE PAVEMENT 9-INCH SY	CONCRETE PAVEMENT 10-INCH SY	
0010	150+36	-	151+77	LT & RT	420		
0010	151+77	-	152+44	RT		130	
TOTAL 0010					420	130	

DRILLED TIE AND DOWEL BARS

CATEGORY	STATION	TO	STATION	LOCATION	416.0610	416.0620	REMARKS
					DRILLED TIE BARS EACH	DRILLED DOWEL BARS EACH	
0010	150+40	-	152+43	LT	100	80	
TOTAL 0010					100	80	

CONCRETE DRIVEWAY 6-INCH

CATEGORY	STATION	LOCATION	602.0810	REMARKS
			CONCRETE DRIVEWAY 6-INCH SY	
0010	127+40	LT	25	DRIVEWAY
0010	128+00	LT	24	DRIVEWAY
0010	138+01	RT	20	DRIVEWAY
0010	144+93	RT	45	DRIVEWAY
0010	150+78	RT	31	DRIVEWAY
0010	297+96	LT	39	ALLEY
0010	297+96	RT	37	ALLEY
0010	307+96	LT	38	ALLEY
0010	307+96	RT	68	ALLEY
0010	308+83	LT	28	DRIVEWAY
0010	317+96	LT	32	ALLEY
0010	317+96	RT	32	ALLEY
0010	318+23	LT	25	DRIVEWAY
0010	318+23	RT	27	DRIVEWAY
0010	327+73	LT	30	DRIVEWAY
0010	327+74	RT	18	DRIVEWAY
0010	327+96	LT	37	ALLEY
0010	327+96	RT	39	ALLEY
0010	328+23	RT	38	DRIVEWAY
0010	328+74	LT	35	DRIVEWAY
0010	347+96	LT	31	ALLEY
0010	347+96	RT	31	ALLEY
TOTAL 0010			730	

HMA ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	455.0605	460.6224	460.6244	REMARKS
					TACK COAT GAL	HMA PAVEMENT 4 MT 58-28 S TON	HMA PAVEMENT 4 MT 58-34 S TON	
0010	125+75	-	129+56	LT & RT	114	293	240	
0010	129+56	-	130+96	LT & RT	37	96	78	
0010	130+96	-	132+86	LT & RT	51	130	107	
0010	132+86	-	135+16	LT & RT	61	157	129	
0010	135+16	-	136+06	LT & RT	24	61	50	
0010	136+06	-	139+36	LT & RT	97	249	204	
0010	139+36	-	142+66	LT & RT	97	249	204	
0010	142+66	-	143+57	LT & RT	24	62	51	
0010	143+57	-	145+96	LT & RT	64	164	134	
0010	145+96	-	147+76	LT & RT	48	123	101	
0010	147+76	-	149+16	LT & RT	37	96	78	
0010	149+16	-	152+44	LT & RT	62	158	130	
0010	278+80	-	279+68	LT & RT	17	44	36	N 21TH STREET
0010	280+20	-	280+65	LT & RT	10	27	22	N 21TH STREET
0010	290+20	-	290+70	LT & RT	10	27	22	LINCOLN STREET
0010	297+65	-	299+68	LT & RT	29	74	61	N 20TH STREET
0010	300+20	-	300+75	LT & RT	11	29	24	N 20TH STREET
0010	307+65	-	309+68	LT & RT	29	74	61	N 19TH STREET
0010	310+20	-	310+75	LT & RT	11	29	24	N 19TH STREET
0010	317+65	-	319+65	LT & RT	40	104	85	N 18TH STREET
0010	320+20	-	320+90	LT & RT	15	38	31	N 18TH STREET
0010	330+20	-	330+85	LT & RT	13	34	27	N 17TH STREET
0010	327+50	-	329+68	LT & RT	31	79	65	N 17TH STREET
0010	340+20	-	340+80	LT & RT	12	31	26	HARRISON STREET
0010	347+50	-	349+68	LT & RT	40	102	83	N 16TH STREET
0010	350+20	-	351+10	LT & RT	17	45	37	N 16TH STREET
TOTAL 0010					1,003	2,574	2,106	

PROJECT NO: ----

HWY: HAMMOND AVE

COUNTY: DOUGLAS

MISCELLANEOUS QUANTITIES

SHEET Page 93 of 207

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ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

465.0120
ASPHALTIC
SURFACE
DRIVEWAYS AND
FIELD
ENTRANCES

CATEGORY	STATION	LOCATION	TON	REMARKS
0010	127+40	LT	4	DRIVEWAY
0010	128+00	LT	2	DRIVEWAY
0010	138+01	RT	1	DRIVEWAY
0010	144+93	RT	3	DRIVEWAY
0010	297+96	LT	2	ALLEY
0010	297+96	RT	2	ALLEY
0010	307+96	LT	2	ALLEY
0010	307+96	RT	2	ALLEY
0010	308+83	LT	2	DRIVEWAY
0010	317+96	LT	2	ALLEY
0010	317+96	RT	2	ALLEY
0010	318+23	LT	2	DRIVEWAY
0010	318+23	RT	1	DRIVEWAY
0010	327+96	LT	2	ALLEY
0010	327+96	RT	2	ALLEY
0010	328+23	RT	2	DRIVEWAY
0010	328+74	LT	2	DRIVEWAY
0010	347+96	LT	2	ALLEY
0010	347+96	RT	3	ALLEY

TOTAL 0010 40

CONCRETE CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0090.01 CONCRETE CURB & GUTTER 6-INCH SLOPED 18-INCH TYPE J MODIFIED LF	601.0409 CONCRETE CURB & GUTTER 30- INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30- INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	SPV.0090.02 CURE AND SEAL TREATEMENT, CONCRETE CURB AND GUTTER LF	REMARKS
0010	125+75	-	129+56	LT & RT	472		553		1025	1025	
0010	129+56	-	130+96	LT & RT	280		207		487	487	
0010	130+96	-	132+86	LT & RT	382		307		689	689	
0010	132+86	-	135+16	LT & RT	460		387		847	847	
0010	135+16	-	136+06	LT & RT	180		106		286	286	
0010	136+06	-	139+36	LT & RT	468		535		1003	1003	
0010	139+36	-	142+66	LT & RT	470		535	83	1088	1088	
0010	142+66	-	143+57	LT & RT	182		108		290	290	
0010	143+57	-	145+96	LT & RT	479		406		885	885	
0010	145+96	-	147+76	LT & RT	360		285		645	645	
0010	147+76	-	149+16	LT & RT	280		203		483	483	
0010	149+16	-	152+44	LT & RT	232	180	235		647	647	
0010	278+80	-	279+68	LT & RT			209	31	240	240	N 21TH STREET
0010	280+20	-	280+65	LT & RT			118		118	118	N 21TH STREET
0010	290+20	-	290+70	LT & RT			122		122	122	LINCOLN STREET
0010	297+65	-	299+68	LT & RT			428		428	428	N 20TH STREET
0010	300+20	-	300+75	LT & RT			133		133	133	N 20TH STREET
0010	307+65	-	309+68	LT & RT			428		428	428	N 19TH STREET
0010	310+20	-	310+75	LT & RT			132		132	132	N 19TH STREET
0010	317+65	-	319+65	LT & RT			434		434	434	N 18TH STREET
0010	320+20	-	320+90	LT & RT			168		168	168	N 18TH STREET
0010	330+20	-	330+85	LT & RT			152	46	198	198	N 17TH STREET
0010	327+50	-	329+68	LT & RT			458		458	458	N 17TH STREET
0010	340+20	-	340+80	LT & RT			143		143	143	HARRISON STREET
0010	347+50	-	349+68	LT & RT			458		458	458	N 16TH STREET
0010	350+20	-	351+10	LT & RT			202		202	202	N 16TH STREET
TOTAL 0010					4,245	180	7,452	160	12,037	12,037	

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CONCRETE SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0165.03	602.0405	602.0415	602.0420	650.9500	SPV.0165.01	REMARKS
					BRUSH PATTERN & COLORING OF CONCRETE SIDEWALK 6-INCH SF	CONCRETE SIDEWALK 4-INCH SF	CONCRETE SIDEWALK 6-INCH SF	CONCRETE SIDEWALK 7-INCH SF	CONSTRUCTION STAKING SIDEWALK (PROJECT) EACH	CURE AND SEAL TREATMENT, CONCRETE SIDEWALK SF	
0010	125+75	-	129+56	LT & RT		1670	3337	262	1	5269	
0010	129+56	-	130+96	LT & RT		655	1269	232		2156	
0010	130+96	-	132+86	LT & RT		903	1695	232		2830	
0010	132+86	-	135+16	LT & RT		1127	2036	238		3401	
0010	135+16	-	136+06	LT & RT		354	726	230		1310	
0010	136+06	-	139+36	LT & RT		1706	2747	78		4531	
0010	139+36	-	142+66	LT & RT		1830	2897	70		4797	
0010	142+66	-	143+57	LT & RT		350	767	239		1356	
0010	143+57	-	145+96	LT & RT		1219	1870	228		3317	
0010	145+96	-	147+76	LT & RT		883	1699	221		2803	
0010	147+76	-	149+16	LT & RT		611	1222	46		1879	
0010	149+16	-	150+36	LT & RT	340	824	2806	165		4135	
0010	278+80	-	279+50	LT & RT		892				892	N 21TH STREET
0010	280+43	-	280+65	LT & RT		260				260	N 21TH STREET
0010	290+41	-	290+70	LT & RT		351				351	LINCOLN STREET
0010	297+65	-	299+54	LT & RT		1837				1837	N 20TH STREET
0010	300+40	-	300+75	LT & RT		420				420	N 20TH STREET
0010	307+65	-	309+54	LT & RT		1883				1883	N 19TH STREET
0010	310+40	-	310+75	LT & RT		427				427	N 19TH STREET
0010	317+65	-	319+49	LT & RT		1523				1523	N 18TH STREET
0010	320+42	-	320+90	LT & RT		547				547	N 18TH STREET
0010	330+39	-	330+85	LT & RT		507				507	N 17TH STREET
0010	327+50	-	329+54	LT & RT		1452				1452	N 17TH STREET
0010	340+40	-	340+50	LT & RT		110				110	HARRISON STREET
0010	347+50	-	349+52	LT & RT		2016				2016	N 16TH STREET
0010	350+40	-	350+50	LT & RT		105				105	N 16TH STREET
			UNDISTRUBUTED	LT & RT		550				550	SIDEWALK UNDER WATERMAIN
TOTAL 0010					340	25,012	23,071	2,241	1	50,664	

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CURB RAMP

602.0515
CURB RAMP
DETECTABLE
WARNING FIELD
NATURAL PATINA
650.9000
CONSTRUCTION
STAKING CURB
RAMPS

CATEGORY	STATION	TO	STATION	LOCATION	SF	EACH	REMARKS
0010	125+75	-	129+56	LT & RT	48	4	
0010	129+56	-	130+96	LT & RT	64	4	
0010	130+96	-	132+86	LT & RT	60	4	
0010	132+86	-	135+16	LT & RT	64	4	
0010	135+16	-	136+06	LT & RT	64	4	
0010	136+06	-	139+36	LT & RT	23	2	
0010	139+36	-	142+66	LT & RT	22	2	
0010	142+66	-	143+57	LT & RT	64	4	
0010	143+57	-	145+96	LT & RT	60	4	
0010	145+96	-	147+76	LT & RT	64	4	
0010	149+16	-	152+44	LT & RT	60	4	
0010	278+80	-	279+68	LT & RT	20	2	N 21TH STREET
0010	280+20	-	280+65	LT & RT	36	2	N 21TH STREET
0010	290+20	-	290+70	LT & RT	36	2	LINCOLN STREET
0010	297+65	-	299+68	LT & RT	20	2	N 20TH STREET
0010	300+20	-	300+75	LT & RT	36	2	N 20TH STREET
0010	307+65	-	309+68	LT & RT	20	2	N 19TH STREET
0010	310+20	-	310+75	LT & RT	36	2	N 19TH STREET
0010	317+65	-	319+65	LT & RT	20	2	N 18TH STREET
0010	320+20	-	320+90	LT & RT	36	2	N 18TH STREET
0010	330+20	-	330+85	LT & RT	36	2	N 17TH STREET
0010	327+50	-	329+68	LT & RT	20	2	N 17TH STREET
0010	340+20	-	340+80	LT & RT	36	2	HARRISON STREET
0010	347+50	-	349+68	LT & RT	20	2	N 16TH STREET
0010	350+20	-	351+10	LT & RT	36	2	N 16TH STREET
TOTAL 0010					1,001	68	

CONCRETE STEPS

602.1500
CONCRETE STEPS

CATEGORY	STATION	LOCATION	SF
0010	148+77	LT	12
0010	149+45	LT	7
TOTAL 0010			19

PIPE UNDERDRAIN 6-INCH

612.0106
PIPE
UNDERDRAIN 6-
INCH

CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	125+75	-	129+56	LT & RT	553	
0010	129+56	-	130+96	LT & RT	207	
0010	130+96	-	132+86	LT & RT	307	
0010	132+86	-	135+16	LT & RT	387	
0010	135+16	-	136+06	LT & RT	106	
0010	136+06	-	139+36	LT & RT	535	
0010	139+36	-	142+66	LT & RT	535	
0010	142+66	-	143+57	LT & RT	108	
0010	143+57	-	145+96	LT & RT	406	
0010	145+96	-	147+76	LT & RT	285	
0010	147+76	-	149+16	LT & RT	203	
0010	149+16	-	152+44	LT & RT	415	
0010	278+80	-	279+68	LT & RT	209	N 21TH STREET
0010	280+20	-	280+65	LT & RT	118	N 21TH STREET
0010	290+20	-	290+70	LT & RT	122	LINCOLN STREET
0010	297+65	-	299+68	LT & RT	428	N 20TH STREET
0010	300+20	-	300+75	LT & RT	133	N 20TH STREET
0010	307+65	-	309+68	LT & RT	428	N 19TH STREET
0010	310+20	-	310+75	LT & RT	132	N 19TH STREET
0010	317+65	-	319+65	LT & RT	434	N 18TH STREET
0010	320+20	-	320+90	LT & RT	168	N 18TH STREET
0010	330+20	-	330+85	LT & RT	152	N 17TH STREET
0010	327+50	-	329+68	LT & RT	458	N 17TH STREET
0010	340+20	-	340+80	LT & RT	143	HARRISON STREET
0010	347+50	-	349+68	LT & RT	458	N 16TH STREET
0010	350+20	-	351+10	LT & RT	202	N 16TH STREET
TOTAL 0010					7,632	

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STORM SEWER PIPES

		520.8000 CONCRETE COLLARS FOR	608.0412	608.0415	608.0418	608.0424	608.0430	608.0436	608.0442	608.0448				
		PIPE EACH	12-INCH LF	15-INCH LF	18-INCH LF	24-INCH LF	30-INCH LF	36-INCH LF	42-INCH LF	48-INCH LF	JOINT TIES* EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
FROM -	TO	FROM ALIGNMENT												
1	-	2	HAMMOND AVE NB				141					639.50	639.07	0.0031
1A	-	1	HAMMOND AVE NB	55								640.25	640.00	0.0045
2	-	3	HAMMOND AVE NB				132					639.07	638.57	0.0038
2A	-	2	HAMMOND AVE NB	57								640.32	640.07	0.0044
3	-	4	HAMMOND AVE NB					187				638.07	637.51	0.0030
3A	-	3B	HAMMOND AVE NB	23								640.37	640.26	0.0048
3B	-	3C	HAMMOND AVE NB		116							640.01	639.55	0.0039
3C	-	3	HAMMOND AVE NB			35						639.30	639.07	0.0065
3E	-	3	HAMMOND AVE NB		55							639.19	639.00	0.0035
3F	-	3E	HAMMOND AVE NB	55								639.69	639.44	0.0046
4	-	5	HAMMOND AVE NB					58				637.51	637.34	0.0030
4A	-	4	HAMMOND AVE NB		55							638.70	638.40	0.0055
4B	-	4A	HAMMOND AVE NB		35							638.85	638.70	0.0042
4C	-	4B	HAMMOND AVE NB	29								639.25	639.10	0.0052
5	-	6	HAMMOND AVE NB					175				637.34	636.71	0.0036
6	-	7	HAMMOND AVE NB						73			636.21	636.00	0.0029
6A	-	6B	HAMMOND AVE NB	23								638.20	638.09	0.0048
6B	-	6D	HAMMOND AVE NB			96						637.59	637.35	0.0025
6C	-	6D	HAMMOND AVE NB	23								638.30	637.85	0.0196
6D	-	6	HAMMOND AVE NB			35						637.35	637.21	0.0040
6E	-	6	HAMMOND AVE NB	55								638.01	637.73	0.0051
7	-	8	HAMMOND AVE NB					237				636.00	635.40	0.0025
7A	-	7	HAMMOND AVE NB		55							637.40	637.05	0.0064
7B	-	7A	HAMMOND AVE NB		46							637.65	637.40	0.0054
7C	-	7B	HAMMOND AVE NB	29								638.05	637.90	0.0052
8	-	9	HAMMOND AVE NB						101			634.90	634.66	0.0024
8A	-	8	HAMMOND AVE NB	55								637.02	636.75	0.0049
9	-	10	HAMMOND AVE NB						61			634.66	634.50	0.0025
9A	-	9	HAMMOND AVE NB	55								636.69	636.40	0.0053
10	-	11	HAMMOND AVE NB						153			634.50	634.10	0.0026
10A	-	10	HAMMOND AVE NB			42						636.00	635.75	0.0060
10B	-	10A	HAMMOND AVE NB		114							636.70	636.25	0.0039
10C	-	10B	HAMMOND AVE NB	31								637.08	636.95	0.0042
10D	-	10A	HAMMOND AVE NB	31								636.64	636.25	0.0126
10E	-	10	HAMMOND AVE NB		87							636.40	636.00	0.0046
10F	-	10E	HAMMOND AVE NB	29								636.79	636.65	0.0048
11	-	12	HAMMOND AVE NB						117			634.10	633.80	0.0026
11A	-	11	HAMMOND AVE NB	55								636.01	635.70	0.0056
12	-	13	HAMMOND AVE NB						81			633.80	633.60	0.0025
12A	-	12	HAMMOND AVE NB		55							635.00	634.70	0.0054
12B	-	12A	HAMMOND AVE NB		35							635.20	635.00	0.0057
12C	-	12B	HAMMOND AVE NB	29								635.62	635.45	0.0059
13	-	14	HAMMOND AVE NB						17			633.56	633.49	0.0041
14	-	15	HAMMOND AVE NB						118			633.49	633.18	0.0026
14A	-	14B	HAMMOND AVE NB	23								635.20	635.05	0.0065

*NON-BID ITEM: FOR INFORMATION ONLY

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STORM SEWER PIPES (CONT'D)

FROM - TO	FROM ALIGNMENT	520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0412 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.0448 48-INCH LF	JOINT TIES* EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
14B - 14	HAMMOND AVE NB				62							634.55	634.05	0.0081
15 - 16	HAMMOND AVE NB									123		632.68	632.34	0.0028
15A - 15	HAMMOND AVE NB		55									634.93	634.60	0.0060
16 - 17	HAMMOND AVE NB									176		632.34	632.16	0.0010
16A - 16	HAMMOND AVE NB			55								633.70	633.35	0.0063
16B - 16A	HAMMOND AVE NB			35								633.90	633.70	0.0057
16C - 16B	HAMMOND AVE NB		29									634.28	634.15	0.0045
17 - 18	HAMMOND AVE NB									140		632.16	632.03	0.0009
17A - 17B	HAMMOND AVE NB		29									634.53	634.40	0.0045
17B - 17D	HAMMOND AVE NB			114								634.15	633.60	0.0048
17C - 17D	HAMMOND AVE NB		29									634.15	633.85	0.0103
17D - 17	HAMMOND AVE NB				45							633.35	633.16	0.0042
17E - 17	HAMMOND AVE NB		55									634.47	634.20	0.0049
18 - 19	HAMMOND AVE NB									106		632.03	631.93	0.0009
18A - 18	HAMMOND AVE NB		55									634.02	633.70	0.0058
19 - 20	HAMMOND AVE NB									46		631.93	631.89	0.0010
19A - 19	HAMMOND AVE NB			57								633.41	633.10	0.0055
20 - 21	HAMMOND AVE NB								68			632.39	632.32	0.0010
21 - 22	HAMMOND AVE NB								138			632.32	632.18	0.0010
22 - 23	HAMMOND AVE NB								36			632.18	632.14	0.0010
EX - 22	HAMMOND AVE NB	1	8									633.96	633.90	0.0078
30B - 30	HAMMOND AVE NB		9									641.57	641.20	0.0411
30A - 30	HAMMOND AVE NB		20									641.26	641.16	0.0050
30C - 30B	HAMMOND AVE NB		43									641.79	641.57	0.0051
30D - 30C	HAMMOND AVE NB		50									642.04	641.79	0.0050
3D - 3C	HAMMOND AVE NB			23								639.65	639.55	0.0013
30 -	HAMMOND AVE NB	1	8									641.15	641.14	0.0013
EX24 - 20	HAMMOND AVE NB					28						632.00	631.89	0.0039
EX1 (3) - EX24	HAMMOND AVE NB	1				10						631.89	631.81	0.0083
TOTALS		3	1047	937	315	311	420	310	890	591				

*NON-BID ITEM: FOR INFORMATION ONLY

STORM SEWER STRUCTURES

SPV.0060.09

STRUCTURE	STATION	OFFSET*	FROM ALIGNMENT	MANHOLE	611.0624	611.0639	611.2004	611.3004	611.3230	SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	611.0420	650.4000	RIM** ELEVATION	INVERT*** ELEVATION	DEPTH**** FT
				COVERS TYPE J SPECIAL EACH	INLET COVERS TYPE H EACH	INLET COVERS TYPE H-S EACH	MANHOLES 4-FT DIAMETER EACH	INLETS 4-FT DIAMETER EACH	INLETS 2X3-FT EACH	INLETS 5-FT DIAMETER EACH	INLETS 6-FT DIAMETER EACH	INLETS 7-FT DIAMETER EACH	INLETS 8-FT DIAMETER EACH	RECONSTRUCTING MANHOLES EACH	CONSTRUCTION STAKING STORM SEWER EACH			
1	127+86.85	33.50' LT	HAMMOND AVE NB		1			1							1	644.75	639.50	4.50
1A	127+86.85	21.50' RT	HAMMOND AVE NB		1				1						1	644.75	640.25	3.66
2	129+27.67	33.50' LT	HAMMOND AVE NB		1			1							1	644.29	639.07	4.47
2A	129+27.67	23.29' RT	HAMMOND AVE NB			1			1						1	644.23	640.32	3.08
3	130+60.12	33.50' LT	HAMMOND AVE NB		1								1		1	643.87	638.07	5.01
3A	131+08.20	174.99' LT	HAMMOND AVE NB		1				1						1	644.87	640.37	3.67
3B	130+85.20	175.01' LT	HAMMOND AVE NB		1				1						1	644.87	640.01	4.05
3C	130+85.12	58.53' LT	HAMMOND AVE NB			1		1							1	643.70	639.30	3.61
3D	131+08.12	58.52' LT	HAMMOND AVE NB			1			1						1	643.71	640.71	2.00
3E	130+60.12	21.50' RT	HAMMOND AVE NB		1				1						1	643.87	639.19	3.86
3F	131+15.00	21.48' RT	HAMMOND AVE NB		1				1						1	643.69	639.69	3.17
4	132+47.45	33.50' LT	HAMMOND AVE NB		1					1					1	643.26	637.51	5.05
4A	132+47.45	21.50' RT	HAMMOND AVE NB		1					1					1	643.26	638.70	3.75
4B	132+72.45	46.51' RT	HAMMOND AVE NB			1			1						1	643.05	638.85	3.39
4C	133+01.45	46.49' RT	HAMMOND AVE NB			1			1						1	643.06	639.25	2.97
5	133+05.00	33.50' LT	HAMMOND AVE NB		1					1					1	643.31	637.34	5.26
6	134+80.39	33.50' LT	HAMMOND AVE NB		1								1		1	642.51	636.21	5.55
6A	135+28.32	154.59' LT	HAMMOND AVE NB			1			1						1	641.99	638.20	2.95
6B	135+05.32	154.57' LT	HAMMOND AVE NB			1		1							1	642.39	637.59	4.01
6C	135+28.39	58.48' LT	HAMMOND AVE NB		1				1						1	642.30	638.30	3.17
6D	135+05.39	58.52' LT	HAMMOND AVE NB		1			1							1	642.30	637.35	4.16
6E	134+80.39	21.50' RT	HAMMOND AVE NB		1				1						1	642.51	638.01	3.67
7	135+53.39	33.50' LT	HAMMOND AVE NB		1					1					1	642.28	636.00	5.53
7A	135+53.39	21.50' RT	HAMMOND AVE NB		1					1					1	642.28	637.40	4.07
7B	135+92.28	46.49' RT	HAMMOND AVE NB			1			1						1	642.06	637.65	3.59
7C	136+21.28	46.51' RT	HAMMOND AVE NB			1			1						1	642.05	638.05	3.17
8	137+90.00	33.50' LT	HAMMOND AVE NB		1							1			1	641.52	634.91	5.91
8A	137+90.00	21.50' RT	HAMMOND AVE NB		1					1					1	641.52	637.02	3.67
9	138+91.22	33.50' LT	HAMMOND AVE NB		1							1			1	641.43	634.66	6.07
9A	138+91.21	21.50' RT	HAMMOND AVE NB		1					1					1	641.19	636.69	3.67
10	139+51.88	33.50' LT	HAMMOND AVE NB		1							1			1	641.26	634.50	6.06
10A	139+52.22	75.00' LT	HAMMOND AVE NB			1		1							1	640.64	636.00	3.84
10B	139+52.22	189.05' LT	HAMMOND AVE NB		1				1						1	641.08	636.70	3.57
10C	139+21.22	189.05' LT	HAMMOND AVE NB		1				1						1	641.08	637.08	3.19
10D	139+21.22	75.00' LT	HAMMOND AVE NB			1			1						1	640.64	636.64	3.16
10E	139+51.21	53.00' RT	HAMMOND AVE NB			1			1						1	640.79	636.40	3.58
10F	139+22.21	53.00' RT	HAMMOND AVE NB			1			1						1	640.79	636.79	3.17
11	141+04.71	33.50' LT	HAMMOND AVE NB		1							1			1	640.51	634.10	5.70
11A	141+04.71	21.50' RT	HAMMOND AVE NB		1					1					1	640.51	636.01	3.66
12	142+22.20	33.50' LT	HAMMOND AVE NB		1							1			1	640.13	633.80	5.62
12A	142+27.20	21.50' RT	HAMMOND AVE NB		1					1					1	640.11	635.00	4.30
12B	142+52.21	46.51' RT	HAMMOND AVE NB			1			1						1	639.67	635.20	3.65
12C	142+81.21	46.49' RT	HAMMOND AVE NB			1			1						1	639.62	635.62	3.16
13	143+03.58	33.50' LT	HAMMOND AVE NB		1							1			1	639.87	633.56	5.60
14	143+20.58	33.70' LT	HAMMOND AVE NB		1							1			1	639.80	633.49	5.61
14A	143+68.48	89.97' LT	HAMMOND AVE NB			1			1						1	639.20	635.20	3.17
14B	143+45.48	90.03' LT	HAMMOND AVE NB			1		1							1	639.20	634.55	3.86
15	144+38.58	33.50' LT	HAMMOND AVE NB		1							1			1	639.43	632.68	6.09
15A	144+38.58	21.50' RT	HAMMOND AVE NB		1					1					1	639.43	634.93	3.67
16	145+61.58	33.50' LT	HAMMOND AVE NB		1							1			1	639.04	632.34	6.03

REMARKS:

*STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

**RIM ELEV IS AT THE INLET COVER FLANGE LOCATION

***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

STORM SEWER STRUCTURES (CONT'D)

STRUCTURE	STATION	OFFSET*	FROM ALIGNMENT	SPV.0060.09												RECONSTRUCTING MANHOLES	CONSTRUCTION STAKING STORM SEWER	RIM** ELEVATION	INVERT*** ELEVATION	DEPTH**** FT
				MANHOLE	611.0624	611.0639	611.2004	611.3004	611.3230	SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	611.0420	650.4000					
				COVERS TYPE J SPECIAL EACH	INLET COVERS TYPE H EACH	INLET COVERS TYPE H-S EACH	MANHOLES 4-FT DIAMETER EACH	INLETS 4-FT DIAMETER EACH	INLETS 2X3-FT EACH	INLETS 5-FT DIAMETER EACH	INLETS 6-FT DIAMETER EACH	INLETS 7-FT DIAMETER EACH	INLETS 8-FT DIAMETER EACH	CONSTRUCTION STAKING EACH	CONSTRUCTION STAKING EACH					
16A	145+57.29	21.52' RT	HAMMOND AVE NB		1					1						1	639.05	633.70	4.54	
16B	145+82.29	46.50' RT	HAMMOND AVE NB			1				1						1	638.84	633.90	4.13	
16C	146+11.29	46.50' RT	HAMMOND AVE NB			1				1						1	638.78	634.28	3.67	
17	147+37.46	33.50' LT	HAMMOND AVE NB		1									1		1	638.47	632.16	5.64	
17A	147+91.52	184.99' LT	HAMMOND AVE NB		1					1						1	638.53	634.53	3.17	
17B	147+62.52	185.01' LT	HAMMOND AVE NB		1					1						1	638.62	634.15	3.66	
17C	147+91.45	71.49' LT	HAMMOND AVE NB			1				1						1	638.15	634.15	3.16	
17D	147+62.45	71.51' LT	HAMMOND AVE NB			1		1								1	638.15	633.35	4.01	
17E	147+37.46	21.50' RT	HAMMOND AVE NB		1					1						1	638.47	634.47	3.17	
18	148+77.21	33.50' LT	HAMMOND AVE NB		1								1			1	638.02	632.03	5.33	
18A	148+77.23	21.50' RT	HAMMOND AVE NB		1					1						1	638.02	634.02	3.17	
19	149+83.38	34.54' LT	HAMMOND AVE NB			1							1			1	637.65	631.94	5.13	
19A	149+83.38	22.20' RT	HAMMOND AVE NB			1				1						1	637.66	633.41	3.44	
EX MH	149+94.00	3.4'0' LT	HAMMOND AVE NB											1						
20	150+28.92	35.05' LT	HAMMOND AVE NB										1			1	637.74	631.89	5.19	
21	150+58.57	26.17' RT	HAMMOND AVE NB		1								1			1	637.91	632.32	4.72	
22	151+95.31	23.56' RT	HAMMOND AVE NB		1							1				1	638.67	632.18	5.63	
EX23	152+30.74	18.70' RT	HAMMOND AVE NB											1						
30	126+20.10	58.67' LT	HAMMOND AVE NB	1			1									1	645.54	641.15	3.19	
30A	126+40.21	61.37' LT	HAMMOND AVE NB		1					1						1	645.26	641.26	3.17	
30B	126+11.22	58.63' LT	HAMMOND AVE NB		1					1						1	645.32	641.57	2.92	
30C	125+81.03	28.50' LT	HAMMOND AVE NB		1					1						1	645.47	641.79	2.85	
30D	125+81.51	19.26' RT	HAMMOND AVE NB		1					1						1	645.41	642.04	2.54	
EX24	150+56.00	36.90' LT	HAMMOND AVE NB											1			637.73	631.39		
TOTALS					1	46	23	1	8	42	3	8	5	4	3	71				

REMARKS:

*STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

**RIM ELEV IS AT THE INLET COVER FLANGE LOCATION

***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

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MAINTENANCE AND REPAIR OF HAUL ROADS

618.0100.01
MAINTENANCE
AND REPAIR OF
HAUL ROADS
(PROJECT) (01.
TBD)
EACH

CATEGORY	STATION	TO	STATION	LOCATION	EACH	REMARKS
0010	125+75	-	150+36.74	LT & RT	1	
TOTAL 0010					1	

MOBILIZATION

619.1000
MOBILIZATI
ON
EACH

CATEGORY	STATION	TO	STATION	LOCATION	EACH	REMARKS
0010	125+75	-	150+36.74	LT & RT	1	
TOTAL 0010					1	

CONCRETE MEDIAN SLOPED NOSE

620.0300
CONCRETE
MEDIAN SLOPED
NOSE

SPV.0165.02
CURE AND SEAL TREATMENT,
CONCRETE MEDIAN SLOPED
NOSE

CATEGORY	STATION	LOCATION	NOSE SF	NOSE SF	REMARKS
0010	127+21	R/L	21	21	
0010	138+41	LT	21	21	
0010	140+32	R/L	21	21	
0010	150+31	R/L	72	72	
TOTAL 0010			135	135	

WATER

624.0100
WATER
MGAL

CATEGORY	STATION	TO	STATION	LOCATION	MGAL	REMARKS
0010	125+75	-	129+56	LT & RT	21	
0010	129+56	-	130+96	LT & RT	7	
0010	130+96	-	132+86	LT & RT	10	
0010	132+86	-	135+16	LT & RT	12	
0010	135+16	-	136+06	LT & RT	5	
0010	136+06	-	139+36	LT & RT	18	
0010	139+36	-	142+66	LT & RT	18	
0010	142+66	-	143+57	LT & RT	5	
0010	143+57	-	145+96	LT & RT	13	
0010	145+96	-	147+76	LT & RT	10	
0010	147+76	-	149+16	LT & RT	7	
0010	149+16	-	150+36	LT & RT	11	
0010	278+80	-	279+65	LT & RT	3	N 21TH STREET
0010	280+24	-	280+65	LT & RT	2	N 21TH STREET
0010	290+24	-	290+70	LT & RT	2	LINCOLN STREET
0010	297+65	-	299+65	LT & RT	6	N 20TH STREET
0010	300+24	-	300+75	LT & RT	2	N 20TH STREET
0010	307+65	-	309+65	LT & RT	6	N 19TH STREET
0010	310+24	-	310+75	LT & RT	2	N 19TH STREET
0010	317+65	-	319+65	LT & RT	7	N 18TH STREET
0010	320+24	-	320+90	LT & RT	2	N 18TH STREET
0010	330+24	-	330+85	LT & RT	2	N 17TH STREET
0010	327+50	-	329+65	LT & RT	6	N 17TH STREET
0010	340+24	-	340+80	LT & RT	2	HARRISON STREET
0010	347+50	-	349+65	LT & RT	7	N 16TH STREET
0010	350+24	-	351+10	LT & RT	3	N 16TH STREET

TOTAL 0010 188

THIS ITEM IS FOR DUST CONTROL

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TOPSOIL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0100	627.0200	629.0210	630.0140	630.0200	630.0500	REMARKS
					TOPSOIL SY	MULCHING SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 40 LB	SEEDING TEMPORARY LB	SEED WATER MGAL	
0010	125+75	-	129+56	LT & RT	550	550	0.35	10	15	4	
0010	129+56	-	130+96	LT & RT	195	195	0.12	4	5	1	
0010	130+96	-	132+86	LT & RT	312	312	0.20	6	8	2	
0010	132+86	-	135+16	LT & RT	402	402	0.25	7	11	3	
0010	135+16	-	136+06	LT & RT	127	127	0.08	2	3	1	
0010	136+06	-	139+36	LT & RT	495	495	0.31	9	13	4	
0010	139+36	-	142+66	LT & RT	456	456	0.29	8	12	3	
0010	142+66	-	143+57	LT & RT	106	106	0.07	2	3	1	
0010	143+57	-	145+96	LT & RT	369	369	0.23	7	10	3	
0010	145+96	-	147+76	LT & RT	321	321	0.20	6	9	2	
0010	147+76	-	149+16	LT & RT	283	283	0.18	5	8	2	
0010	149+16	-	152+44	LT & RT	180	180	0.11	3	5	1	
0010	278+80	-	279+68	LT & RT	169	169	0.11	3	5	1	N 21TH STREET
0010	280+20	-	280+65	LT & RT	48	48	0.03	1	1	0	N 21TH STREET
0010	290+20	-	290+70	LT & RT	61	61	0.04	1	2	0	LINCOLN STREET
0010	297+65	-	299+68	LT & RT	539	539	0.34	10	15	4	N 20TH STREET
0010	300+20	-	300+75	LT & RT	76	76	0.05	1	2	1	N 20TH STREET
0010	307+65	-	309+68	LT & RT	461	461	0.29	8	12	3	N 19TH STREET
0010	310+20	-	310+75	LT & RT	86	86	0.05	2	2	1	N 19TH STREET
0010	317+65	-	319+65	LT & RT	315	315	0.20	6	8	2	N 18TH STREET
0010	320+20	-	320+90	LT & RT	115	115	0.07	2	3	1	N 18TH STREET
0010	330+20	-	330+85	LT & RT	99	99	0.06	2	3	1	N 17TH STREET
0010	327+50	-	329+68	LT & RT	472	472	0.30	9	13	3	N 17TH STREET
0010	340+20	-	340+80	LT & RT	90	90	0.06	2	2	1	HARRISON STREET
0010	347+50	-	349+68	LT & RT	450	450	0.28	8	12	3	N 16TH STREET
0010	350+20	-	351+10	LT & RT	185	185	0.12	3	5	1	N 16TH STREET
UNDISTRIBUTED					256	256	0.16	5	7	2	WATER SERVICE REPLACEMENT
TOTAL 0010					7,218	7,218	4.55	130	195	52	

TOPSOIL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0100	627.0200	629.0210	SPV.0120	REMARKS
					TOPSOIL SY	MULCHING SY	FERTILIZER TYPE B CWT	B LAWN SEED WATER MGAL	
0050	125+75	-	129+56	C/L	199	199	0.13	1	CENTER MEDIAN
0050	129+56	-	130+96	C/L	121	121	0.08	1	CENTER MEDIAN
0050	130+96	-	132+86	C/L	171	171	0.11	1	CENTER MEDIAN
0050	132+86	-	135+16	C/L	209	209	0.13	2	CENTER MEDIAN
0050	135+16	-	136+06	C/L	73	73	0.05	1	CENTER MEDIAN
0050	136+06	-	139+36	C/L	199	199	0.13	1	CENTER MEDIAN
0050	139+36	-	142+66	C/L	197	197	0.12	1	CENTER MEDIAN
0050	142+66	-	143+57	C/L	74	74	0.05	1	CENTER MEDIAN
0050	143+57	-	145+96	C/L	218	218	0.14	2	CENTER MEDIAN
0050	145+96	-	147+76	C/L	161	161	0.10	1	CENTER MEDIAN
0050	147+76	-	149+16	C/L	134	134	0.08	1	CENTER MEDIAN
0050	149+16	-	152+44	C/L	92	92	0.06	1	CENTER MEDIAN
UNDISTRIBUTED					92	92	1.12	1	
TOTAL 0050					1,940	1,940	2.30	15	

INLET PROTECTION

CATEGORY	STATION	LOCATION	628.7005	628.7015	628.7020	628.7504	REMARKS
			INLET PROTECTION TYPE A EACH	INLET PROTECTION TYPE C EACH	INLET PROTECTION TYPE D EACH	TEMPORARY DITCH CHECK LF	
0010	125+75	44.50' LT	1	-	1	-	
0011	125+76	44.50' RT	1	1	-	25	
0010	1 127+86.85	33.50' LT	1	1	-	-	
0010	1A 127+86.85	21.50' RT	1	1	-	-	
0010	2 129+27.67	33.50' LT	1	-	1	-	
0010	2A 129+27.67	23.29' RT	1	1	-	-	
0010	3 130+60.12	33.50' LT	1	-	1	-	
0010	3A 131+08.20	174.99' LT	1	1	-	-	
0010	3B 130+85.20	175.01' LT	1	1	-	-	
0010	3C 130+85.12	58.53' LT	1	1	-	-	
0010	3D 131+08.12	58.52' LT	1	1	-	-	
0010	3E 130+60.12	21.50' RT	1	1	-	-	
0010	3F 131+15.00	21.48' RT	1	1	-	-	
0010	4 132+47.45	33.50' LT	1	-	1	-	
0010	4A 132+47.45	21.50' RT	1	1	-	-	
0010	4B 132+72.45	46.51' RT	1	1	-	-	
0010	4C 133+01.45	46.49' RT	1	1	-	-	
0010	5 133+05.00	33.50' LT	1	-	1	-	
0010	6 134+80.39	33.50' LT	1	-	1	-	
0010	6A 135+28.32	154.59' LT	1	1	-	-	
0010	6B 135+05.32	154.57' LT	1	1	-	-	
0010	6C 135+28.39	58.48' LT	1	1	-	-	
0010	6D 135+05.39	58.52' LT	1	1	-	-	
0010	6E 134+80.39	21.50' RT	1	1	-	-	
0010	7 135+53.39	33.50' LT	1	-	1	-	
0010	7A 135+53.39	21.50' RT	1	1	-	-	
0010	7B 135+92.28	46.49' RT	1	1	-	25	
0010	7C 136+21.28	46.51' RT	1	1	-	-	
0010	8 137+90.00	33.50' LT	1	-	1	-	
0010	8A 137+90.00	21.50' RT	1	1	-	-	
0010	9 138+91.22	33.50' LT	1	-	1	-	
0010	9A 138+91.21	21.50' RT	1	1	-	-	
0010	10 139+51.88	33.50' LT	1	-	1	-	
0010	10A 139+52.22	75.00' LT	1	1	-	-	
0010	10B 139+52.22	189.05' LT	1	1	-	-	
0010	10C 139+21.22	189.05' LT	1	1	-	-	
0010	10D 139+21.22	75.00' LT	1	1	-	-	
TOTAL 0010			37	27	10	50	

INLET PROTECTION (CONT'D)

CATEGORY	STATION	LOCATION	628.7005	628.7015	628.7020	628.7504	REMARKS
			INLET PROTECTION TYPE A EACH	INLET PROTECTION TYPE C EACH	INLET PROTECTION TYPE D EACH	TEMPORARY DITCH CHECK LF	
0010	10E	139+51.21	53.00' RT	1	1	-	-
0010	10F	139+22.21	53.00' RT	1	1	-	-
0010	11	141+04.71	33.50' LT	1	-	1	-
0010	11A	141+04.71	21.50' RT	1	1	-	-
0010	12	142+22.20	33.50' LT	1	-	1	-
0010	12A	142+27.20	21.50' RT	1	1	-	-
0010	12B	142+52.21	46.51' RT	1	1	-	-
0010	12C	142+81.21	46.49' RT	1	1	-	-
0010	13	143+03.58	33.50' LT	1	-	1	-
0010	14	143+20.58	33.70' LT	1	-	1	-
0010	14A	143+68.48	89.97' LT	1	1	-	-
0010	14B	143+45.48	90.03' LT	1	1	-	-
0010	15	144+38.58	33.50' LT	1	-	1	-
0010	15A	144+38.58	21.50' RT	1	1	-	-
0010	16	145+61.58	33.50' LT	1	-	1	-
0010	16A	145+57.29	21.52' RT	1	1	-	-
0010	16B	145+82.29	46.50' RT	1	1	-	-
0010	16C	146+11.29	46.50' RT	1	1	-	-
0010	17	147+37.46	33.50' LT	1	-	1	-
0010	17A	147+91.52	184.99' LT	1	1	-	-
0010	17B	147+62.52	185.01' LT	1	1	-	-
0010	17C	147+91.45	71.49' LT	1	1	-	-
0010	17D	147+62.45	71.51' LT	1	1	-	-
0010	17E	147+37.46	21.50' RT	1	1	-	-
0010	18	148+77.21	33.50' LT	1	-	1	-
0010	18A	148+77.23	21.50' RT	1	1	-	-
0010	19	149+83.38	34.54' LT	1	-	1	-
0010	19A	149+83.38	22.20' RT	1	1	-	-
0010	EX MH	149+94.00	3.4'0' LT	1	1	-	-
0010	20	150+28.92	35.05' LT	1	-	1	-
0010	21	150+58.57	26.17' RT	1	-	1	-
0010	22	151+95.31	23.56' RT	1	-	1	-
0010	EX23	152+30.74	18.70' RT	1	1	-	-
0010	30	126+20.10	58.67' LT	1	-	1	-
0010	30A	126+40.21	61.37' LT	1	1	-	-
0010	30B	126+11.22	58.63' LT	1	1	-	-
0010	30C	125+81.03	28.50' LT	1	1	-	-
0010	30D	125+81.51	19.26' RT	1	1	-	-
0010	EX24	150+56.00	36.90' LT	1	1	-	-
SUBTOTAL			39	26	13	0	
TOTAL 0010			76	53	23	50	

TRACKING PAD

CATEGORY	STATION	TO	STATION	LOCATION	628.7560	REMARKS
					EACH	
0010	125+75	-	150+36.74	LT & RT	6	
TOTAL 0010					6	

MOVING SIGNS TYPE II

638.2102
MOVING SIGNS
TYPE II

CATEGORY	SIGN NO	SIGN MESSAGE	EACH	REMARKS
0010	1-1	NO TRUCK SYMBOL	1	
0010	1-2	H	1	
0010		HOSPITAL	1	
0010	1-3	STOP	1	
0010		ALL WAY	1	
0010	1-4	SPEED LIMIT 25	1	
0010	1-5	STOP	1	
0010		ALL WAY	1	
0010	1-6	SCHOOL CROSSING	1	
0010	1-7	NO PARKING	1	
0010	1-8	SNOW EMERGENCY ROUTE	1	
0010	1-9	TURN ARROWS	1	
0010	1-10	SCHOOL CROSSING	1	
0010	1-11	SCHOOL CROSSING	1	
0010	1-12	HAMMOND AVE	1	
0010		N 21ST ST	1	
0010		STOP	1	
0010		ALL WAY	1	
0010	1-13	CATHEDRAL MIDDLE SCHOOL	1	
0010	1-14	SPEED LIMIT 25	1	
0010		NO TRUCKS	1	
0010	1-15	HAMMOND AVE	1	
0010		LINCOLN ST	1	
0010	1-16	STOP	1	
0010	1-17	STOP	1	
0010	1-18	HAMMOND AVE	1	
0010		N 20TH ST	1	
0010	1-19	PEDESTRIAN SYMBOL	1	
0010	1-20	HAMMOND AVE	1	
0010		N 19TH ST	1	
0010	1-21	STOP	1	
0010	1-22	PEDESTRIAN SYMBOL	1	
0010	1-23	PEDESTRIAN SYMBOL	1	
0010		AHEAD	1	
0010	1-24	STOP	1	
0010	1-25	HAMMOND AVE	1	
0010		N 20TH ST	1	
0010	1-26	PEDESTRIAN SYMBOL	1	
0010	1-27	STOP	1	
0010	1-28	HAMMOND AVE	1	
0010		N 19TH ST	1	
0010	2-1	SPEED LIMIT 25	1	
0010	2-2	STOP	1	
0010	2-3	SNOW EMERGENCY ROUTE	1	
0010	2-4	STOP	1	
SUB TOTAL 0010			45	

MOVING SIGNS TYPE II (CON'T)

638.2102
MOVING SIGNS
TYPE II

CATEGORY	SIGN NO	SIGN MESSAGE	EACH	REMARKS
0010	2-5	SNOW EMERGENCY ROUTE	1	
0010	2-6	HAMMOND AVE	1	
0010		N 17TH ST	1	
0010	2-7	STOP	1	
0010	2-8	STOP	1	
0010	2-9	HAMMOND AVE	1	
0010		N 17TH ST	1	
0010	2-10	STOP	1	
0010	2-11	HAMMOND AVE	1	
0010		N 17TH ST	1	
0010	3-1	HAMMOND AVE	1	
0010		N 16TH ST	1	
0010	3-2	STOP	1	
0010	3-3	SPEED LIMIT 25	1	
0010	3-4	NO PARKING	1	
0010		NO PARKING	1	
0010	3-5	UNITED METHODIST CHURCH	1	
0010	3-6	HWY 35	1	
0010		ARROW LEFT	1	
0010	3-7	HANDICAP	1	
0010	3-8	HAMMOND AVE	1	
0010		N 16TH ST	1	
0010	3-9	STOP	1	

SUB TOTAL 0010 23
TOTAL 0010 68

NOTE: MOVING SIGNS TYPE II INCLUDES MOVING SIGN SUPPORTS

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FIELD OFFICE TYPE B

CATEGORY	STATION	TO	STATION	LOCATION	642.5001 FIELD OFFICE TYPE B EACH	REMARKS
0010	125+75	-	150+36.74	LT & RT	1	
TOTAL 0010					1	

GEOGRID TYPE SR

CATEGORY	STATION	TO	STATION	LOCATION	645.0220 GEOGRID TYPE SR SY	REMARKS
0010	125+75	-	129+56	LT & RT	2,341	
0010	129+56	-	130+96	LT & RT	825	
0010	130+96	-	132+86	LT & RT	1,119	
0010	132+86	-	135+16	LT & RT	1,348	
0010	135+16	-	136+06	LT & RT	534	
0010	136+06	-	139+36	LT & RT	2,013	
0010	139+36	-	142+66	LT & RT	2,014	
0010	142+66	-	143+57	LT & RT	538	
0010	143+57	-	145+96	LT & RT	1,406	
0010	145+96	-	147+76	LT & RT	1,059	
0010	147+76	-	149+16	LT & RT	813	
0010	149+16	-	150+36	LT & RT	1,301	
0010	278+80	-	279+65	LT & RT	335	N 21TH STREET
0010	280+24	-	280+65	LT & RT	186	N 21TH STREET
0010	290+24	-	290+70	LT & RT	193	LINCOLN STREET
0010	297+65	-	299+65	LT & RT	621	N 20TH STREET
0010	300+24	-	300+75	LT & RT	211	N 20TH STREET
0010	307+65	-	309+65	LT & RT	621	N 19TH STREET
0010	310+24	-	310+75	LT & RT	211	N 19TH STREET
0010	317+65	-	319+65	LT & RT	809	N 18TH STREET
0010	320+24	-	320+90	LT & RT	277	N 18TH STREET
0010	330+24	-	330+85	LT & RT	248	N 17TH STREET
0010	327+50	-	329+65	LT & RT	666	N 17TH STREET
0010	340+24	-	340+50	LT & RT	779	HARRISON STRFFT
0010	347+50	-	349+65	LT & RT	809	N 16TH STREET
0010	350+24	-	350+50	LT & RT	339	N 16TH STREET
TOTAL 0010					21,065	

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MARKING										
				646.2020	646.4020	646.7020	646.7120	646.7420	646.7520	646.8220
				MARKING LINE	MARKING LINE	MARKING	MARKING	MARKING	MARKING	MARKING
				EPOXY 6-INCH	EPOXY 10-INCH	DIAGONAL	DIAGONAL	CROSSWALK	CROSSWALK	ISLAND NOSE
STATION	TO	STATION	LOCATION	LF	LF	EPOXY 6-INCH	EPOXY 12-INCH	EPOXY TRANSVERSE LINE 6-INCH	EPOXY LADDER PATTERN 24-INCH	EPOXY EACH
125+75	-	129+56	LT & RT	627	43		25		208	2
129+56	-	130+96	LT & RT	210		37		87		
130+96	-	132+86	LT & RT	311		37		83		
132+86	-	135+16	LT & RT	390		37			80	
135+16	-	136+06	LT & RT	92		37			80	
136+06	-	139+36	LT & RT	624						1
139+36	-	142+66	LT & RT	610	42				224	1
142+66	-	143+57	LT & RT	93		36		80		
143+57	-	145+96	LT & RT	410		38		85		
145+96	-	147+76	LT & RT	288		38		85		
147+76	-	149+16	LT & RT	204						
149+16	-	152+44	LT & RT	922		41	151	86		1
278+80	-	279+68	LT & RT	148				64		
280+20	-	280+65	LT & RT	52				63		
290+20	-	290+70	LT & RT	66				61		
297+65	-	299+68	LT & RT	386				58		
300+20	-	300+75	LT & RT	78				63		
307+65	-	309+68	LT & RT	388				60		
310+20	-	310+75	LT & RT	78				63		
317+65	-	319+65	LT & RT	376				71		
320+20	-	320+90	LT & RT	102				65		
330+20	-	330+85	LT & RT	100				64		
327+50	-	329+68	LT & RT	416				57		
340+20	-	340+80	LT & RT	88				63		
347+50	-	349+68	LT & RT	412				65		
350+20	-	351+10	LT & RT	148				62		
TOTAL 0010				7,619	85	301	176	1,385	592	5

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL

650.9911 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL					
CATEGORY	STATION	TO	STATION	LOCATION	REMARKS
0010	125+75	-	150+36.74	LT & RT	1
TOTAL 0010					1

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CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4500	650.5000	650.9920	REMARKS
					CONSTRUCTION STAKING SUBGRADE LF	CONSTRUCTION STAKING BASE LF	CONSTRUCTION STAKING SLOPE STAKES LF	
0010	125+75	-	129+56	LT & RT	381	381	381	
0010	129+56	-	130+96	LT & RT	140	140	140	
0010	130+96	-	132+86	LT & RT	190	190	190	
0010	132+86	-	135+16	LT & RT	230	230	230	
0010	135+16	-	136+06	LT & RT	90	90	90	
0010	136+06	-	139+36	LT & RT	330	330	330	
0010	139+36	-	142+66	LT & RT	330	330	330	
0010	142+66	-	143+57	LT & RT	91	91	91	
0010	143+57	-	145+96	LT & RT	239	239	239	
0010	145+96	-	147+76	LT & RT	180	180	180	
0010	147+76	-	149+16	LT & RT	140	140	140	
0010	149+16	-	152+44	LT & RT	328	328	328	
0010	278+80	-	280+65	LT & RT	185	185	185	N 21TH STREET
0010	290+00	-	290+70	LT & RT	70	70	70	LINCOLN STREET
0010	297+65	-	300+00	LT & RT	235	235	235	N 20TH STREET
0010	300+00	-	300+75	LT & RT	75	75	75	N 20TH STREET
0010	307+65	-	310+00	LT & RT	235	235	235	N 19TH STREET
0010	310+00	-	310+75	LT & RT	75	75	75	N 19TH STREET
0010	317+65	-	320+90	LT & RT	325	325	325	N 18TH STREET
0010	330+00	-	330+85	LT & RT	85	85	85	N 17TH STREET
0010	327+50	-	330+00	LT & RT	250	250	250	N 17TH STREET
0010	340+00	-	340+80	LT & RT	80	80	80	HARRISON STREET
0010	347+50	-	350+00	LT & RT	250	250	250	N 16TH STREET
0010	350+00	-	351+10	LT & RT	110	110	110	N 16TH STREET
TOTAL 0010					4,644	4,644	4,644	

CONDUIT

FROM	TO	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
USH 2 & HAMMOND AVENUE PB2	PB3	130
ITEM TOTALS		130

TRAFFIC SIGNAL CABLE NO. 14 (BELOW GROUND)

FROM	TO	655.0260 CABLE TRAFFIC SIGNAL 12 - 14 AWG LF
USH 2 & HAMMOND AVENUE		
CB1	SB1	566
CB1	SB2	512
CB1	SB3	421
CB1	SB4	365
ITEM TOTALS		1864

* ITEMS SHOWN ELSEWHERE IN THE PLANS

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2 - 10 AWG GROUNDED LF
USH 2 & HAMMOND AVENUE		
CB1	SB1	566
ITEM TOTALS		566

ELECTRIC WIRE TRAFFIC SIGNALS

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
USH 2 & HAMMOND AVENUE		
CB1	SB1	566
ITEM TOTALS		566

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
USH 2 & HAMMOND AVENUE		
CB1	SB1 (HEAD C)	631
CB1	SB3 (HEAD A)	486
INTERSECTION TOTAL		1117

FURNISH AND INSTALL VIDEO DETECTION CABLE

FROM	TO	SPV.0090.03 FURNISH AND INSTALL VIDEO DETECTION CABLE LF
USH 2 & HAMMOND AVENUE		
CB1	SB1	641
CB1	SB2	496
ITEM TOTALS		1137

SAWING

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010	125+75	-	129+56	LT & RT	76	52	
0010	129+56	-	130+96	LT & RT		21	
0010	130+96	-	132+86	LT & RT		22	
0010	132+86	-	135+16	LT & RT	6	13	
0010	135+16	-	136+06	LT & RT	6	8	
0010	136+06	-	139+36	LT & RT	8	33	
0010	139+36	-	142+66	LT & RT		50	
0010	142+66	-	143+57	LT & RT		10	
0010	143+57	-	145+96	LT & RT	25	33	
0010	145+96	-	147+76	LT & RT		30	
0010	147+76	-	149+16	LT & RT		15	
0010	149+16	-	152+44	LT & RT	52	294	
0010	278+80	-	279+68	LT & RT	26	25	N 21TH STREET
0010	280+20	-	280+65	LT & RT	26	12	N 21TH STREET
0010	290+20	-	290+70	LT & RT	26	12	LINCOLN STREET
0010	297+65	-	299+68	LT & RT	51	17	N 20TH STREET
0010	300+20	-	300+75	LT & RT	26	12	N 20TH STREET
0010	307+65	-	309+68	LT & RT	63	51	N 19TH STREET
0010	310+20	-	310+75	LT & RT	26	11	N 19TH STREET
0010	317+68	-	319+65	LT & RT	86	17	N 18TH STREET
0010	320+20	-	320+90	LT & RT	26	12	N 18TH STREET
0010	330+20	-	330+85	LT & RT	26	11	N 17TH STREET
0010	327+50	-	329+68	LT & RT	93	17	N 17TH STREET
0010	340+20	-	340+80	LT & RT	26	11	HARRISON STREET
0010	347+50	-	349+68	LT & RT	55	22	N 16TH STREET
0010	350+20	-	351+10	LT & RT	26	11	N 16TH STREET
TOTAL 0010					755	822	

UTILITY LINE OPENING

CATEGORY	STATION	LOCATION	SPV.0060.05 UTILITY LINE OPENING EACH
0010	126+00	LT	1
0010	130+72	LT	1
0010	132+65	RT	1
0010	134+90	LT	1
0010	135+75	RT	1
0010	139+51	RT	1
0010	142+40	RT	1
0010	143+25	LT	1
0010	145+70	RT	1
0010	147+45	LT	1
0010	152+00	RT	1
0010	UNDISTRIBUTED		4
TOTAL 0010			15

VERIFY WITH THE ENGINEER LOCATIONS REQUIRED.
VERIFY GAS AND FIBER AT NEW SS LOCATION

TREE PLANTING, PRESERVATION AND PROTECTION

SPV.0060.06
TREE PLANTING,
PRESERVATION
AND PROTECTION
EACH

CATEGORY	STATION	LOCATION	REMARKS
0050	125+65	25.19 RT Hammond Ave NB	1 27"
0050	128+59	44.27 TR Hammond Ave NB	1 12"
0050	129+89	49.29 LT Hammond Ave NB	1 11"
0050	130+00	57.48 RT Hammond Ave NB	1 12"
0050	130+51	42.29 RT Hammond Ave NB	1 7"
0050	130+75	58.56 LT Hammond Ave NB	1 24"
0050	131+17	68.34 LT Hammond Ave NB	1 30"
0050	131+73	35.56 LT Hammond Ave NB	1 30"
0050	133+62	47.55 RT Hammond Ave NB	1 11"
0050	134+55	51.91 LT Hammond Ave NB	1 5"
0050	136+71	52.02 LT Hammond Ave NB	1 12"
0050	136+76	51.83 LT Hammond Ave NB	1 14"
0050	136+40	43.63 RT Hammond Ave NB	1 15"
0050	136+62	50.34 RT Hammond Ave NB	1 12"
0050	136+79	43.17 RT Hammond Ave NB	1 8"
0050	136+99	43.54 RT Hammond Ave NB	1 16"
0050	138+98	43.27 RT Hammond Ave NB	1 8"
0050	139+86	26.43 RT Hammond Ave NB	1 30'
0050	140+36	42.59 RT Hammond Ave NB	1 16"
0050	139+82	52.51 LT Hammond Ave NB	1 6"
0050	140+93	41.99 RT Hammond Ave NB	1 18"
0050	141+23	50.75 RT Hammond Ave NB	1 8"
0050	143+20	50.58 LT Hammond Ave NB	1 12"
0050	146+45	48.18 LT Hammond Ave NB	1 11"
0050	147+65	56.14 RT Hammond Ave NB	1 18"
0050	148+21	58.13 LT Hammond Ave NB	1 14"
0050	148+94	54.82 LT Hammond Ave NB	1 15"
0050	298+91	18.92 LT N 20TH ST	1 30"
0050	298+49	20.61 LT N 20TH ST	1 30"
0050	298+43	20.82 RT N 20TH ST	1 10"
0050	298+43	20.82 RT N 20TH ST	1 30"
0050	298+92	20.47 RT N 20TH ST	1 30"
0050	297+71	19.18 LT N 20TH ST	1 10"
0050	330+89	37.32 LT N 17TH ST	1 18"
0050	328+38	21.55 RT N 17TH ST	1 50"
0050	329+16	18.07 LT N 17TH ST	1 4"
0050	340+53	46.11 LT Harrison ST	1 12'
0050	350+57	18.48 RT N 16TH ST	1 14"
0050	350+97	17.88 RT N 16TH ST	1 10"
0050	309+11	19.39 LT N 19TH ST	1 20"
0050	308+13	19.69 RT N 19TH ST	1 15"
0050	317+81	18.97 LT N 18TH ST	1 48"
UNDISTRIBUTED 5			
TOTAL 0050 47			

LOCATE AND RESET PROPERTY CORNERS

SPV.0060.08

CATEGORY	STATION	LOCATION	COORDINATES		EACH
			NORTHING	EASTING	
0010	125+36.77'	NB' 46.33' RT	302691.0010'	148568.2450'	1
0010	125+91.81'	NB' 46.39' RT	302746.0360'	148568.6850'	1
0010	126+25.42'	NB' 3.41' LT	302779.9930'	148519.1240'	1
0010	126+60.46'	NB' 46.51' RT	302814.6830'	148569.2840'	1
0010	127+83.59'	NB' 46.13' RT	302937.8150'	148569.7560'	1
0010	128+25.27'	NB' 46.53' RT	302979.4980'	148570.4460'	1
0010	128+67.08'	NB' 46.44' RT	303021.3020'	148570.6500'	1
0010	129+11.49'	NB' 53.39' LT	303066.4060'	148471.1310'	1
0010	129+61.96'	NB' 53.40' LT	303116.8720'	148471.4670'	1
0010	130+11.83'	NB' 53.35' LT	303166.7400'	148471.8690'	1
0010	130+96.59'	NB' 3.52' LT	303251.1540'	148522.2820'	1
0010	130+97.20'	NB' 46.47' RT	303251.4150'	148572.2800'	1
0010	131+31.53'	NB' 53.39' LT	303286.4350'	148472.6620'	1
0010	131+72.31'	NB' 46.41' RT	303326.5280'	148572.7440'	1
0010	132+06.54'	NB' 53.28' LT	303361.4420'	148473.2920'	1
0010	132+81.86'	NB' 53.29' LT	303436.7650'	148473.8000'	1
0010	133+06.57'	NB' 53.34' LT	303461.4750'	148473.9200'	1
0010	133+33.52'	NB' 53.31' LT	303488.4220'	148474.1440'	1
0010	133+81.54'	NB' 53.27' LT	303536.4440'	148474.5170'	1
0010	135+16.49'	NB' 3.45' LT	303671.0400'	148525.2690'	1
0010	136+64.07'	NB' 53.45' LT	303818.9720'	148476.2950'	1
0010	137+01.87'	NB' 53.38' LT	303856.7640'	148476.6300'	1
0010	137+51.70'	NB' 53.37' LT	303906.5940'	148476.9830'	1
0010	137+94.69'	NB' 46.52' RT	303948.8870'	148577.1660'	1
0010	138+01.68'	NB' 53.51' LT	303956.5770'	148477.1930'	1
0010	138+51.76'	NB' 53.49' LT	304006.6520'	148477.5610'	1
0010	139+36.53'	NB' 3.57' LT	304091.0710'	148528.0710'	1
0010	141+21.71'	NB' 53.43' LT	304276.5960'	148479.4890'	1
0010	141+52.52'	NB' 46.39' RT	304306.7170'	148579.5230'	1
0010	141+75.62'	NB' 53.59' LT	304330.5020'	148479.7030'	1
0010	142+09.26'	NB' 53.34' LT	304364.1420'	148480.1930'	1
0010	142+46.63'	NB' 53.49' LT	304401.5090'	148480.2980'	1
0010	143+56.62'	NB' 3.49' LT	304511.1540'	148531.0540'	1
0010	143+66.90'	NB' 46.31' RT	304521.0900'	148580.9340'	1
0010	144+31.14'	NB' 46.26' RT	304585.3250'	148581.3310'	1
0010	144+41.74'	NB' 53.51' LT	304596.6160'	148481.6360'	1
0010	144+66.66'	NB' 53.51' LT	304621.5340'	148481.8080'	1
0010	145+04.31'	NB' 53.56' LT	304659.1840'	148482.0210'	1
0010	146+31.57'	NB' 46.58' RT	304785.7510'	148583.0380'	1
0010	147+76.72'	NB' 3.46' LT	304931.2390'	148534.0340'	1
0010	148+06.56'	NB' 46.52' RT	304960.7320'	148584.1940'	1
0010	149+51.66'	NB' 46.51' RT	305105.8340'	148585.1880'	1
0010	150+11.58'	NB' 53.61' LT	305166.4420'	148485.4930'	1
0010	150+11.81'	NB' 53.65' LT	305166.6760'	148485.4570'	1
0010	150+59.68'	NB' 54.36' LT	305216.2780'	148485.7020'	1
0010	150+67.57'	NB' 45.60' RT	305220.2610'	148585.8960'	1
TOTAL 0010					46

LOCATE AND REPLACE EXISTING CENTERLINE MONUMENTS

SPV.0060.07

CATEGORY	STATION	LOCATION	COORDINATES		EACH
			NORTHING	EASTING	
0010	103+16.71	3.48 LT	300471.338	148503.022	1
0010	109+76.10	3.10 LT	301130.716	148507.983	1
0010	113+07.99	3.13 LT	301462.597	148510.257	1
0010	117+35.16	3.56 LT	301889.758	148512.787	1
0010	121+54.62	3.49 LT	302309.205	148515.769	1
0010	124+50.67	2.91 LT	302605.247	148518.402	1
0010	129+55.16	3.05 LT	303109.722	148521.770	1
0010	132+85.49	2.95 LT	303440.045	148524.164	1
0010	139+34.50	4.49 LT	304089.051	148527.130	1
0010	143+59.50	2.85 LT	304514.026	148531.715	1
0010	147+79.22	2.43 LT	304933.739	148535.047	1
0010	151+73.16	30.54 RT	305327.374	148573.762	1
0010	128+01.43	4.17 LT	302956.008	148519.584	1
0010	130+97.68	3.11 LT	303252.238	148522.694	1
0010	132+87.15	241.66 RT	303440.009	148768.785	1
0010	135+18.24	2.72 LT	303672.785	148526.004	1
0010	142+69.10	2.73 LT	304423.627	148531.206	1
0010	142+67.03	237.05 RT	304419.895	148770.977	1
0010	143+57.16	253.67 LT	304513.435	148280.887	1
0010	145+98.38	3.16 LT	304752.910	148533.069	1
0010	145+96.96	262.44 RT	304749.639	148798.659	1
0010	149+19.21	3.61 LT	305073.730	148534.841	1
0010	149+16.74	377.92 RT	305068.617	148916.359	1
0010	151+13.90	385.07 RT	305253.307	148926.922	1
0010	101+66.39	3.24 LT	300321.024	148502.221	1
TOTAL 0010					25

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STATEMENT OF ESTIMATED QUANTITIES - WATER				
NOTE	ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
	SPV.0060.40	REMOVE WATER VALVE AND BOX	EACH	2
	SPV.0060.41	REMOVE CURB STOP AND BOX	EACH	87
	SPV.0060.42	REMOVE HYDRANT	EACH	6
	SPV.0060.43	REMOVE VALVE VAULT	EACH	5
	SPV.0060.44	GATE VALVE AND BOX, 8-INCH	EACH	9
	SPV.0060.45	HYDRANT ASSEMBLY	EACH	7
	SPV.0060.46	CONNECT TO EXISTING WATER MAIN	EACH	9
	SPV.0060.47	CONNECT TO EXISTING WATER SERVICE	EACH	81
	SPV.0060.48	TAPPING TEE WITH ELECTROFUSION SADDLE, 1-INCH	EACH	81
	SPV.0060.49	CURB STOP AND BOX, 1-INCH	EACH	80
	SPV.0060.50	CURB STOP AND BOX, 2-INCH	EACH	1
	SPV.0090.40	REMOVE OR ABANDON WATER MAIN	LIN FT	2565
2	SPV.0090.41	REMOVE STEEL GAS MAIN	LIN FT	2894
1	SPV.0090.42	WATER MAIN AND FITTINGS, 8-INCH HDPE DR-11	LIN FT	3073
1	SPV.0090.43	WATER MAIN AND FITTINGS, 12-INCH HDPE DR-11	LIN FT	100
1	SPV.0090.44	WATER SERVICE, 1-INCH HDPE	LIN FT	3658
	SPV.0090.45	WATER SERVICE, 2-INCH HDPE	LIN FT	23
	SPV.0105.30	TEMPORARY BYPASS SYSTEM	LUMP SUM	1
	612.0902.S	INSULATION BOARD POLYSTYRENE, 4-INCH	SY	486

NOTES:	
1	TRACER WIRE INCIDENTAL.
2	REMOVAL OF ALL GAS PIPING LESS THAN 6" INCIDENTAL.

STATEMENT OF ESTIMATED QUANTITIES - SANITARY			
ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
SPV.0060.30	POINT REPAIR BY CHEMICAL GROUT	EACH	10
SPV.0060.31	COVER INTERCEPTOR MANHOLE OPENING	EACH	1
SPV.0060.32	INTERCEPTOR MANHOLE LINING	EACH	6
SPV.0090.30	SAPL 46"x60" INTERCEPTOR	LIN FT	280
SPV.0090.31	SALP 47"x66" INTERCEPTOR	LIN FT	521
SPV.0090.32	CLEANING AND TELEVISIONING SEWER INTERCEPTOR	LIN FT	801
SPV.0105.30	TEMPORARY BYPASS SYSTEM	LUMP SUM	1

NOTES:

EXACT ALIGNMENT OF ALL WATER SERVICES TO BE COORDINATED BY CONTRACTOR WITH EXISTING AND PROPOSED UTILITIES AS WELL AS PROPOSED LANDSCAPING FEATURES.

MINIMUM 18" CLEAR REQUIRED AT ALL STORM AND SANITARY CROSSINGS. PIPE INVERTS SHOWN ARE AT REFERENCE LINE OF ROADWAY AND DO NOT ACCOUNT FOR PIPE THICKNESS.

CONTRACTOR TO VERIFY ALL ANTICIPATED SERVICES CONNECTIONS SHOWN IN PLAN.

REMOVAL OR ABANDONMENT OF ALL PIPES 2-INCH AND SMALLER IS INCIDENTAL.

BENDS SHOWN, PREFERABLE TO DEFLECT HDPE PIPE AT BEND LOCATIONS IF FEASIBLE. NO PAYMENT SHALL BE MADE FOR METHOD SELECTED.

SWLP TO OPERATE VALVES AND CONDUCT WET TAPS.

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A - WATER MAIN								
STATION TO STATION	LOCATION	SPV.0060.40	SPV.0060.43	SPV.0060.44	SPV.0060.46	SPV.0090.40	SPV.0090.42	SPV.0090.43
		REMOVE WATER VALVE AND BOX EACH	REMOVE VALVE VAULT EACH	GATE VALVE AND BOX, 8-INCH EACH	CONNECT TO EXISTING WATER MAIN EACH	REMOVE OR ABANDON WATER MAIN LIN FT	WATER MAIN AND FITTINGS, 8-INCH HDPE DR-11 LIN FT	WATER MAIN AND FITTING, 12-INCH HDPE DR-11 LIN FT
35+30 - 35+34	10.2' LT.				1	4	4	
35+34 - 35+44	10.2' LT. - CL					10	15	
35+44 - 35+48	CL					4	4	
35+48	CL			1				
35+48 - 36+16	CL					68	68	
35+71	10.1' LT.		1		1			
36+15.41	CL - 60.0' RT		1		1			60
36+16.86	40.0' LT. - CL		1		1			40
36+16 - 36+22	CL					6	6	
36+22	CL			1				
36+22 - 39+26	CL					303	303	
36+42	10.6' LT.		1					
39+25	8.1' LT.	1						
39+25	10.0' LT. - 58.8" RT.				1	68	58	
39+25 - 42+61	CL					336	336	
42+60	77.1' RT.			1				
42+61	CL - 77.1' RT.						77	
42+61 - 43+05	CL					44	44	
43+05	CL			1				
43+05 - 45+83	CL					278	278	
45+83	CL - 73.3' RT.			1			73	
45+83 - 49+48	CL					365	365	
49+10	39.6' LT. - CL				1		40	
49+10	CL - 80.5' RT.				1		80	
49+48 - 49+51	CL					4	4	
49+51	7.9' LT.		1					
49+51 - 52+51	CL					300	300	
52+51	CL - 74.8' RT.						75	
52+51	74.8' RT.			1				
52+51 - 55+86	CL					335	335	
55+86	CL - 90.0' RT.	1		1	1		90	
55+86 - 56+04	CL					18	18	
56+04	CL			1				
56+04 - 59+07	CL					303	303	
59+07	76.0' RT.			1			76	
59+07 - 59+96	CL					89	89	
59+96 - 60+03	CL					5	7	
60+03 - 60+28	CL				1	25	25	
PROJECT ITEM TOTALS		2	5	9	9	2565	3073	100

B - HYDRANTS			
STATION	LOCATION	SPV.0060.42	SPV.0060.45
		REMOVE HYDRANT EACH	HYDRANT ASSEMBLY EACH
36+42.70	42.1' RT.		1
41+22.30	20.5' LT.	1	
42+87.33	69.6' RT.		1
44+54.90	20.0' LT.	1	
46+07.17	70.4' RT.		1
49+37.08	77.6' RT.		1
49+58.78	19.5' LT.	1	
52+67.08	71.8' RT.		1
53+79.51	18.3' LT.	1	
55+96.82	68.4' RT.	1	
55+97.57	72.5' RT.		1
57+14.98	17.7' LT.	1	
59+17.10	73.4' RT.		1
PROJECT ITEM TOTALS		6	7

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C - WATER SERVICES										
STATION	LOCATION	CONNECTION TYPE	LOWER SERVICE UNDER PROPOSED STORM	SPV.0060.41 REMOVE CURB STOP AND BOX EACH	SPV.0060.47 CONNECT TO EXISTING WATER SERVICE EACH	SPV.0060.48 TAPPING TEE WITH ELECTROFUSION SADDLE, 1-INCH EACH	SPV.0060.49 CURB STOP AND BOX, 1-INCH EACH	SPV.0060.50 CURB STOP AND BOX, 2-INCH EACH	SPV.0090.44 WATER SERVICE, 1-INCH HDPE, LIN FT	SPV.0090.45 WATER SERVICE, 2-INCH HDPE, LIN FT
35+39.16	21.2' LT.	A	NO		1	1			14	
36+60.08	39.7' LT.	A	NO	1	1	1	1		40	
37+20.21	60.4' RT.	A	NO	1	1	1	1		60	
37+22.18	39.6' LT.	A	NO	1	1	1	1		40	
37+28.21	60.4' RT.	A	NO	1	1	1	1		60	
37+73.55	53.0' RT.	A	NO	1	1	1	1		54	
38+12.70	31.5' LT.	A	NO	1	1	1	1		32	
38+21.45	60.6' RT.	A	NO	1	1	1	1		61	
38+21.60	39.4' LT.	A	NO	1	1	1	1		40	
38+66.64	39.3' LT.	A	NO	1	1	1	1		39	
38+72.17	60.7' RT.	A	NO	1	1	1	1		61	
39+17.74	24.4' LT.	A	NO	1	1	1	1		25	
39+67.09	24.6' LT.	A	NO	1	1	1	1		24	
40+02.02	61.0' RT.	A	NO	1	1	1	1		61	
40+17.31	39.0' LT.	A	NO	1	1	1	1		39	
40+52.01	61.1' RT.	A	NO	1	1	1	1		61	
41+00.28	54.1' RT.	A	NO	1	1	1	1		56	
41+37.63	38.7' LT.	B	YES	1	1	1	1		39	
41+50.54	45.1' RT.			1						
41+86.54	20.9' LT.			1						
41+97.22	61.4' RT.	A		1	1	1	1		61	
42+04.75	61.5' RT.	A		1	1	1	1		61	
42+18.01	22.2' LT.			1						
42+29.06	38.5' LT.	B		1	1	1	1		42	
42+31.14	45.7' RT.			1						
42+40.92	38.5' LT.	B	YES	1	1	1	1		38	
42+83.11	73.8' RT.			1	1	1		1		23
42+83.84	38.4' LT.	B		1	1	1	1		42	
42+91.81	38.3' LT.	A		1	1	1	1		39	
43+37.14	38.2' LT.	A	YES	1	1	1	1		38	
43+86.80	38.1' LT.	A	YES	1	1	1	1		38	
44+12.51	38.0' LT.	A	YES	1	1	1	1		38	
44+36.45	24.0' LT.	A	YES	1	1	1	1		24	
44+79.21	51.7' LT.	A	YES	1	1	1	1		52	
45+44.47	37.7' LT.	A	YES	1	1	1	1		38	
45+59.83	37.7' LT.		YES	1	1	1	1		38	
46+08.82	37.6' LT.	A	YES	1	1	1	1		38	
46+52.46	48.2' RT.	A		1	1	1	1		48	
46+56.61	23.6' LT.	A	YES	1	1	1	1		24	
47+02.92	62.6' RT.	A		1	1	1	1		63	
47+06.54	37.4' LT.	A	YES	1	1	1	1		37	
47+56.75	37.4' LT.	A	YES	1	1	1	1		38	
48+05.90	62.8' RT.	A		1	1	1	1		63	
48+06.29	37.2' LT.	A	YES	1	1	1	1		38	
48+29.81	21.2' LT.			1						
48+57.44	37.1' LT.	A	YES	1	1	1	1		37	
49+50.50	44.5' RT.			1						
49+81.12	63.1' RT.	B		1	1	1	1		63	
SHEET SUBTOTALS				45	40	40	39	1	1727	23

CONNECTION TYPE A = OPEN TRENCH
CONNECTION TYPE B = DIRECTIONALLY DRILL

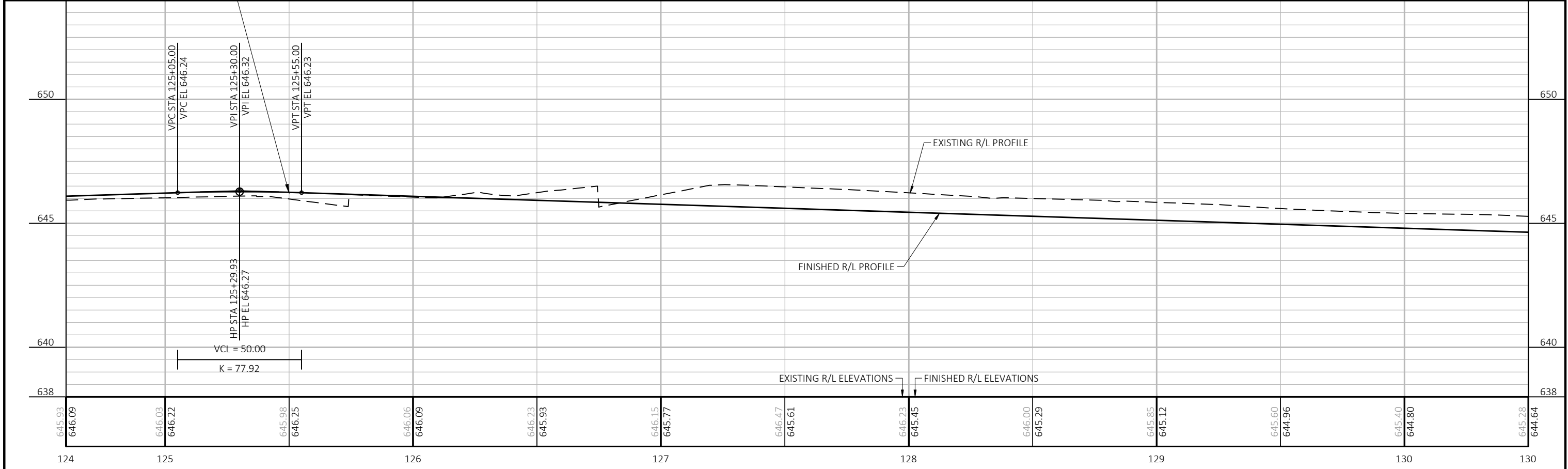
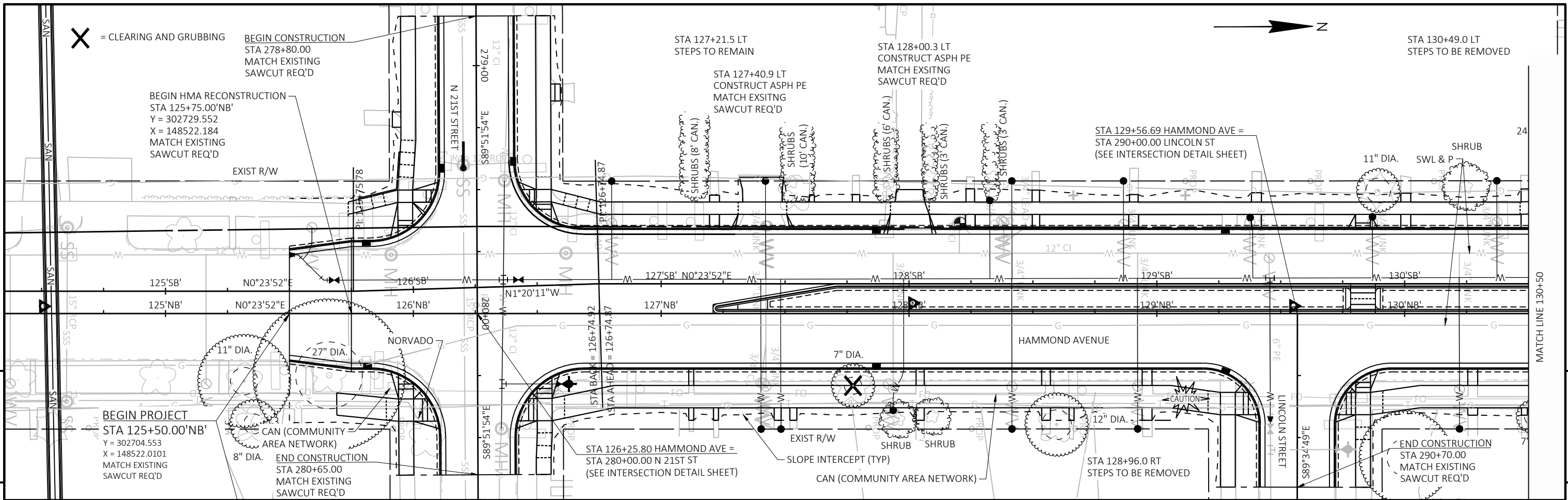
C - WATER SERVICES (CONTINUED)

STATION	LOCATION		LOWER SERVICE UNDER PROPOSED STORM	SPV.0060.41 REMOVE CURB STOP AND BOX EACH	SPV.0060.47 CONNECT TO EXISTING WATER SERVICE EACH	SPV.0060.48 TAPPING TEE WITH ELECTROFUSION SADDLE, 1-INCH EACH	SPV.0060.49 CURB STOP AND BOX, 1-INCH EACH	SPV.0060.50 CURB STOP AND BOX, 2-INCH EACH	SPV.0090.44 WATER SERVICE, 1-INCH HDPE LIN FT	SPV.0090.45 WATER SERVICE, 2-INCH HDPE LIN FT
49+90.49	36.8' LT.	A	YES	1	1	1	1		37	
50+18.83	36.8' LT.	A	YES	1	1	1	1		37	
50+51.56	36.7' LT.	A	YES	1	1	1	1		37	
50+79.81	48.8' RT.	B		1	1	1	1		53	
51+00.76	36.6' LT.	A	YES	1	1	1	1		37	
51+31.67	63.5' RT.	A		1	1	1	1		64	
51+49.13	36.5' LT.	A	YES	1	1	1	1		37	
51+76.52	36.4' LT.	A	YES	1	1	1	1		36	
51+81.65	63.6' RT.	A		1	1	1	1		64	
51+87.79	45.4' RT.			1						
52+10.26	36.3' LT.	A	YES	1	1	1	1		37	
52+44.57	36.2' LT.	A	YES	1	1	1	1		37	
52+66.17	36.2' LT.	A	YES	1	1	1	1		36	
53+30.90	64.0' RT.	A		1	1	1	1		64	
53+79.54	64.1' RT.	A		1	1	1	1		64	
53+88.88	35.9' LT.			1	1	1	1		36	
53+93.88	35.9' LT.	A	YES	1	1	1	1		36	
54+22.63	35.8' LT.	A	YES	1	1	1	1		38	
54+30.89	64.2' RT.	A		1	1	1	1		64	
54+38.83	64.2' RT.	A		1	1	1	1		64	
54+71.17	35.7' LT.	A	YES	1	1	1	1		36	
55+02.29	64.4' RT.	A		1	1	1	1		64	
55+04.53	35.6' LT.	A	YES	1	1	1	1		36	
55+45.48	35.5' LT.	A	YES	1	1	1	1		38	
55+92.44	35.4' LT.	A	YES	1	1	1	1		35	
55+96.23	35.4' LT.	A	YES	1	1	1	1		35	
56+37.19	18.5' LT.	A	YES	1	1	1	1		19	
56+60.89	64.8' RT.	A		1	1	1	1		65	
56+80.84	35.2' LT.	A	YES	1	1	1	1		35	
56+90.74	35.2' LT.	A	YES	1	1	1	1		35	
57+10.69	64.9' RT.	A		1	1	1	1		68	
57+74.83	65.0' RT.	A		1	1	1	1		65	
58+10.96	65.1' RT.	A		1	1	1	1		65	
58+25.92	34.9' LT.	A	YES	1	1	1	1		35	
58+53.44	65.1' RT.	A		1	1	1	1		67	
58+54.78	34.9' LT.	A	YES	1	1	1	1		38	
59+21.77	34.8' LT.	A	YES	1	1	1	1		35	
59+62.36	34.7' LT.	A	YES	1	1	1	1		39	
59+62.90	65.3' RT.	A		1	1	1	1		69	
59+71.79	34.7' LT.	A	YES	1	1	1	1		35	
59+78.62	65.3' RT.			1	1	1	1		65	
60+17.88	70.3' RT.	A		1	1	1	1		74	
SHEET SUBTOTALS				42	41	41	41	0	1931	0
PROJECT ITEM TOTALS				87	81	81	80	1	3658	23

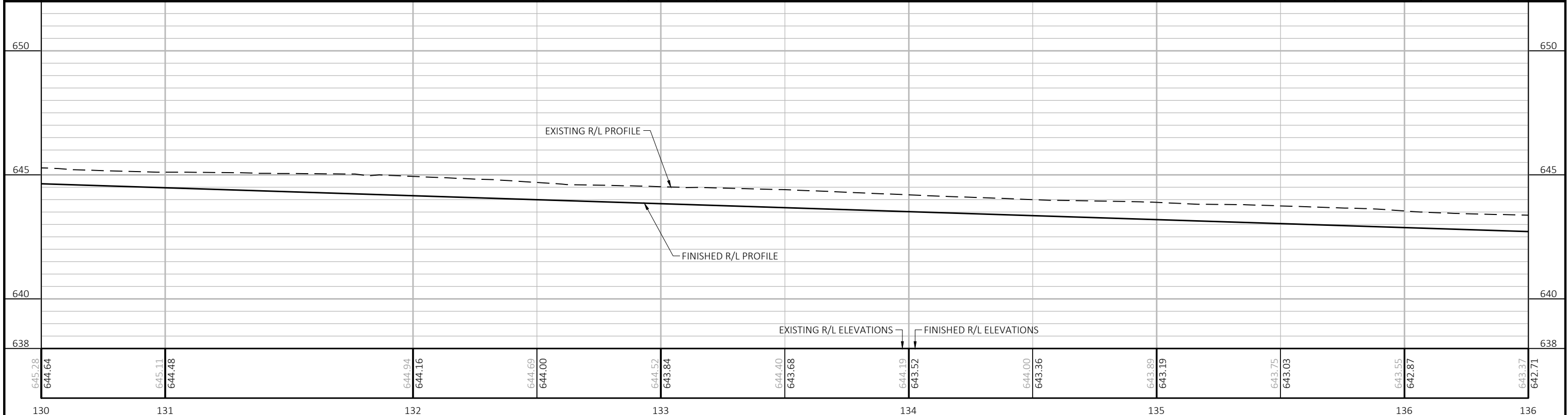
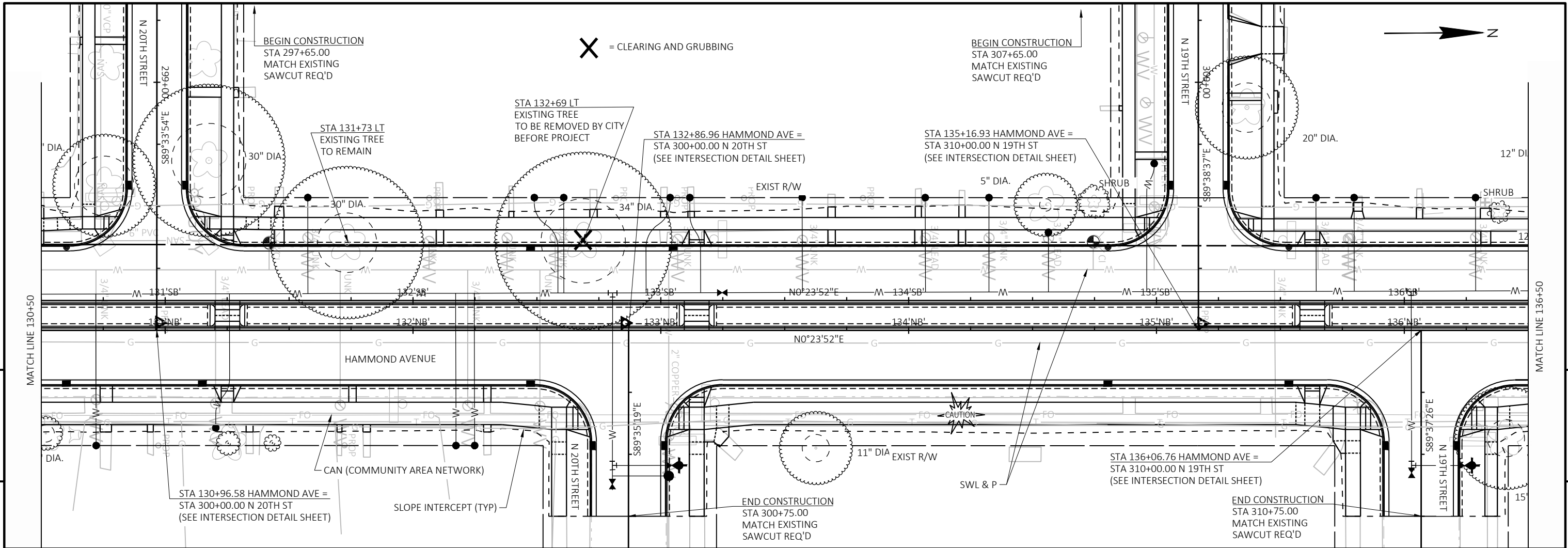
CONNECTION TYPE A = OPEN TRENCH
CONNECTION TYPE B = DIRECTIONALLY DRILL

D - INSULATION		
STATION TO STATION	LOCATION	612.0902.S INSULATION BOARD POLYSTYRENE, 4- INCH SQ YD
41+37.63	18.7' LT.	7
42+38.53	18.5' LT.	7
42+40.92	18.5' LT.	7
42+74.08	18.9' LT.	7
42+96.08	18.3' LT.	7
43+37.14	18.3' LT.	7
43+86.80	18.1' LT.	7
44+12.51	18.1' LT.	7
44+36.45	18.0' LT.	7
44+76.13	17.9' LT.	8
44+76.16	33.6' LT.	4
45+44.44	17.8' LT.	8
45+59.82	17.8' LT.	8
46+08.82	17.6' LT.	8
46+56.61	17.5' LT.	8
47+06.54	17.4' LT.	8
47+56.75	17.3' LT.	8
48+06.29	17.2' LT.	9
48+57.44	17.1' LT.	9
49+09.63	16.9' LT.	10
49+90.49	16.8' LT.	9
50+18.83	16.7' LT.	9
50+51.56	16.6' LT.	9
51+00.76	16.5' LT.	9
51+49.13	16.4' LT.	9
51+76.52	16.4' LT.	9
52+03.72	CL	3
52+13.28	16.3' LT.	9
52+44.57	16.2' LT.	9
52+66.17	16.2' LT.	9
53+93.88	15.9' LT.	9
54+29.66	15.8' LT.	11
54+71.17	15.7' LT.	11
55+04.53	15.6' LT.	11
55+40.41	CL	3
55+52.65	15.5' LT.	11
55+92.44	15.4' LT.	11
55+96.23	15.4' LT.	11
56+37.19	15.3' LT.	11
56+80.84	15.3' LT.	11
56+90.74	15.2' LT.	11
58+25.92	14.9' LT.	11
58+45.47	14.9' LT.	11
59+07.52	46.2' RT.	12
59+21.77	15.3' LT.	11
59+52.35	22.6' RT.	11
59+52.46	15.6' LT.	11
59+74.46	15.8' LT.	11
59+78.25	14.1' RT.	11
60+07.88	CL-RT.	15
60+07.88	10.3' RT	15
60+16.22	CL	20
PROJECT ITEM TOTALS		486

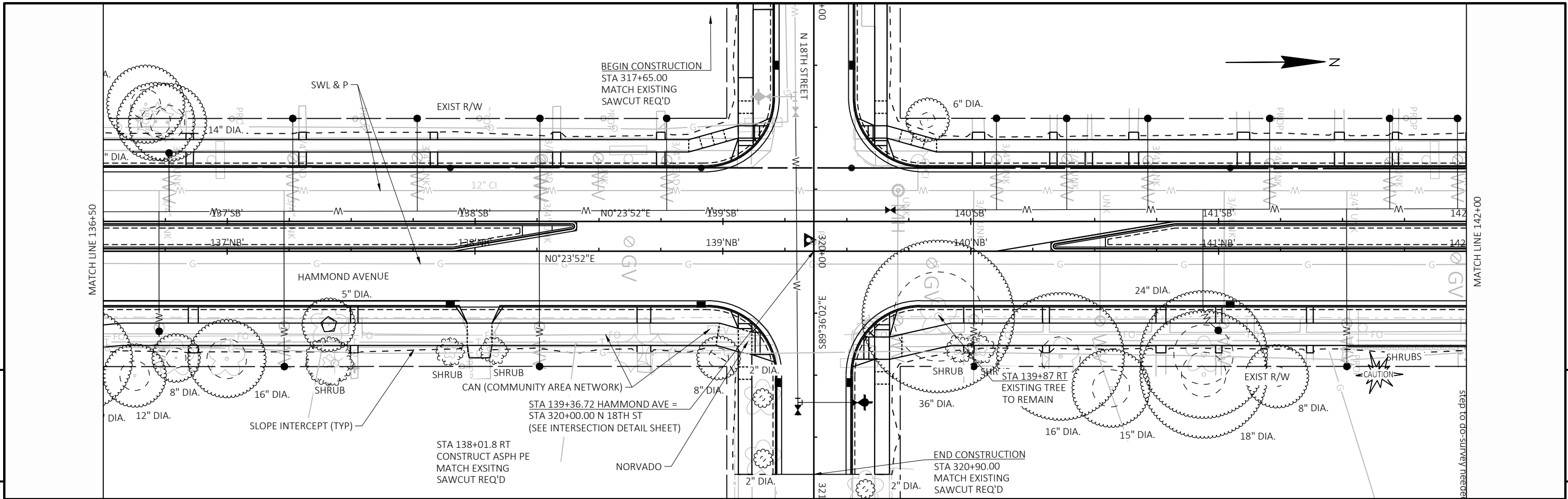
E - FITTINGS		
STATION	LOCATION	TYPE
35+31.71	10.2' LT	12"X8" REDUCER
35+33.58	10.2' LT	8" 45° BEND
35+43.81	CL	8" 45° BEND
36+16.40	CL	12"X8" CROSS
39+25.67	CL	8"X8" TEE
39+25.69	55.9' RT	8"X6" REDUCER
42+60.57	CL	8"X8" TEE
45+82.82	CL	8"X8" TEE
49+09+71	CL	8"X8" CROSS
52+51.10	CL	8"X8" TEE
55+85.82	CL	8"X8" TEE
55+85.74	88.0' RT.	8"X6" REDUCER
59+07.35	CL	8"X8" TEE
59+96.49	CL	8" 45° BEND
60+03.42	CL	8" 45° BEND
60+24.18	CL	12"X8" REDUCER



PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	PLAN AND PROFILE: HAMMOND AVENUE	SHEET Page 115 of 207
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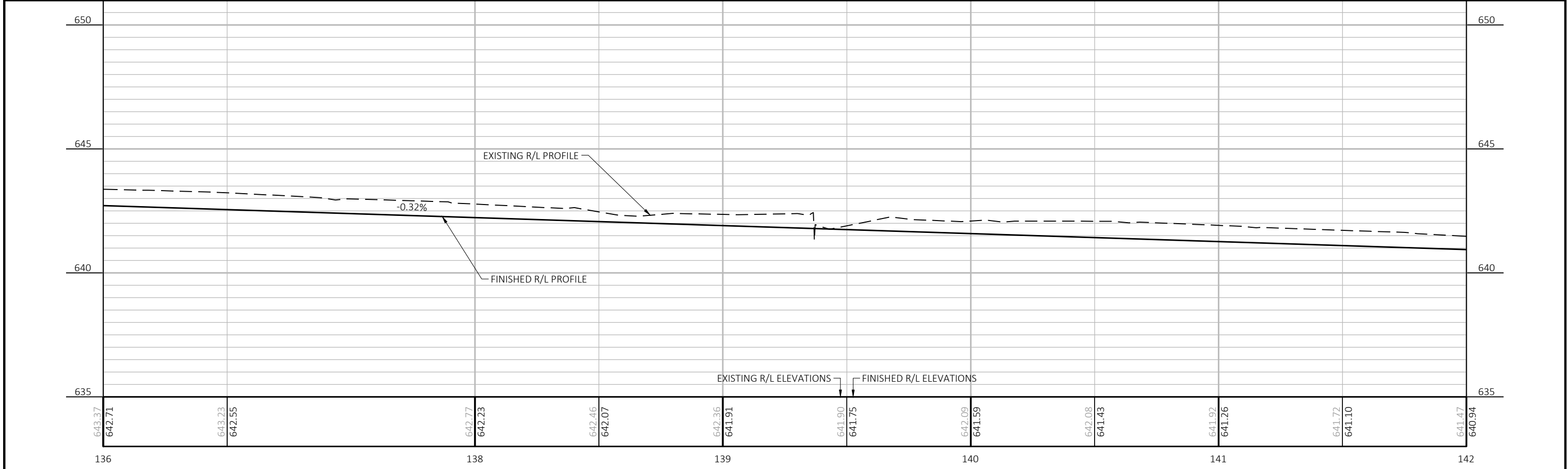


PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	PLAN AND PROFILE: HAMMOND AVENUE	SHEET Page 116 of 207
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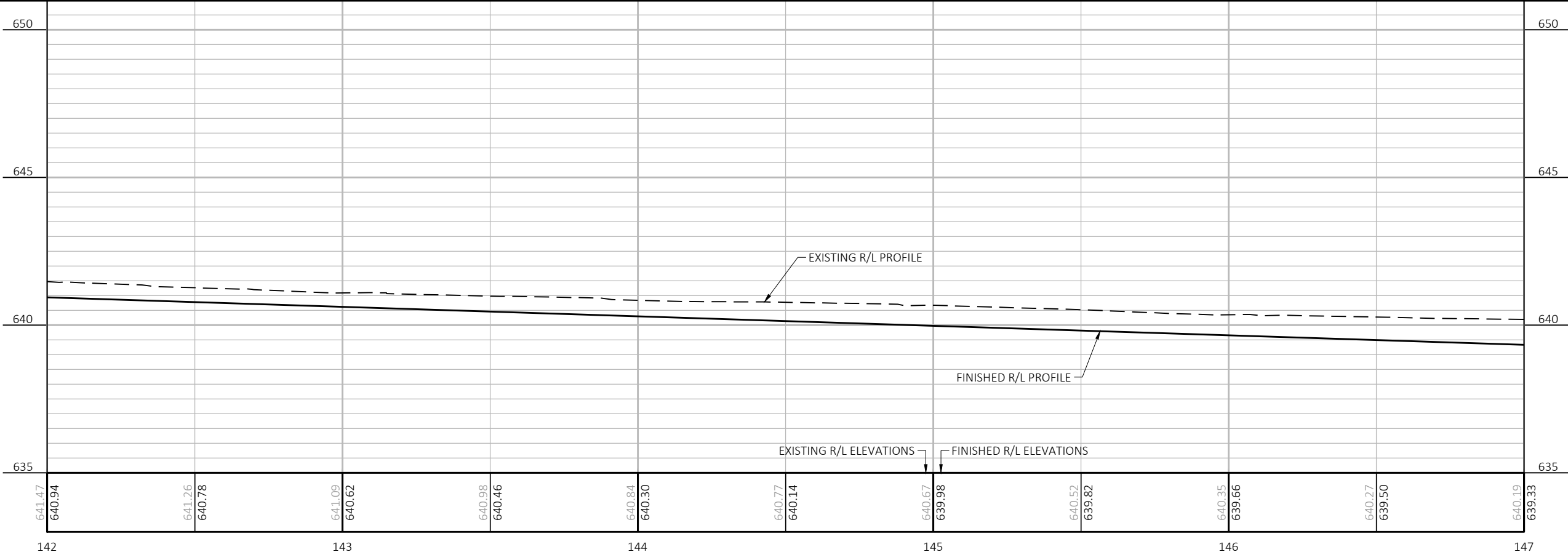
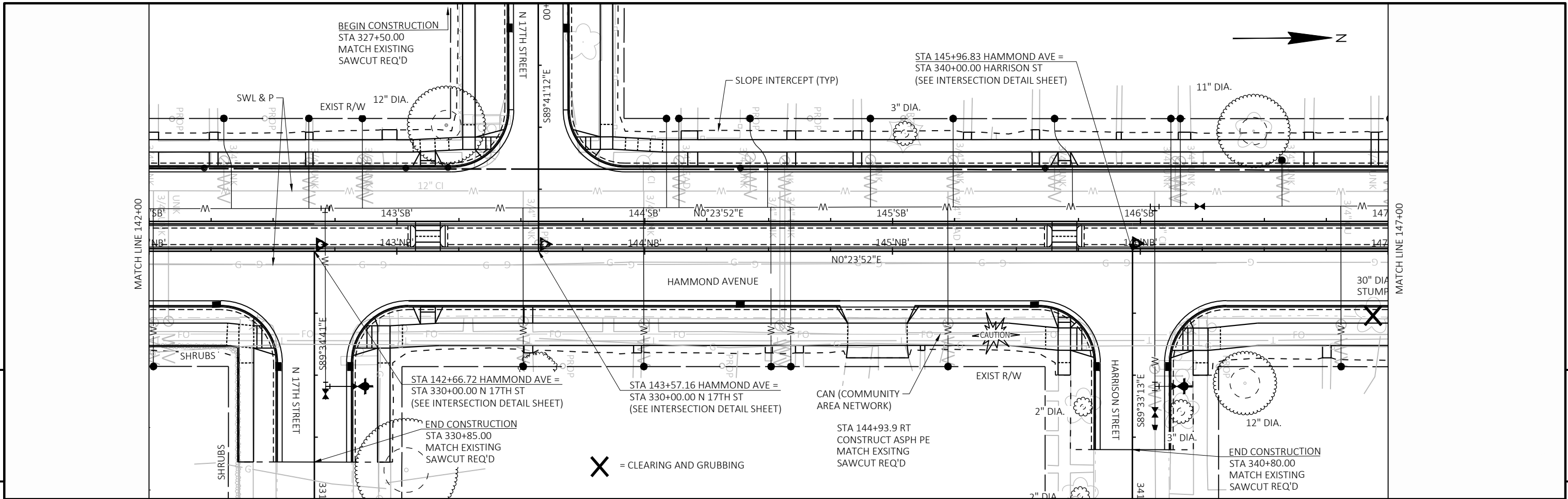


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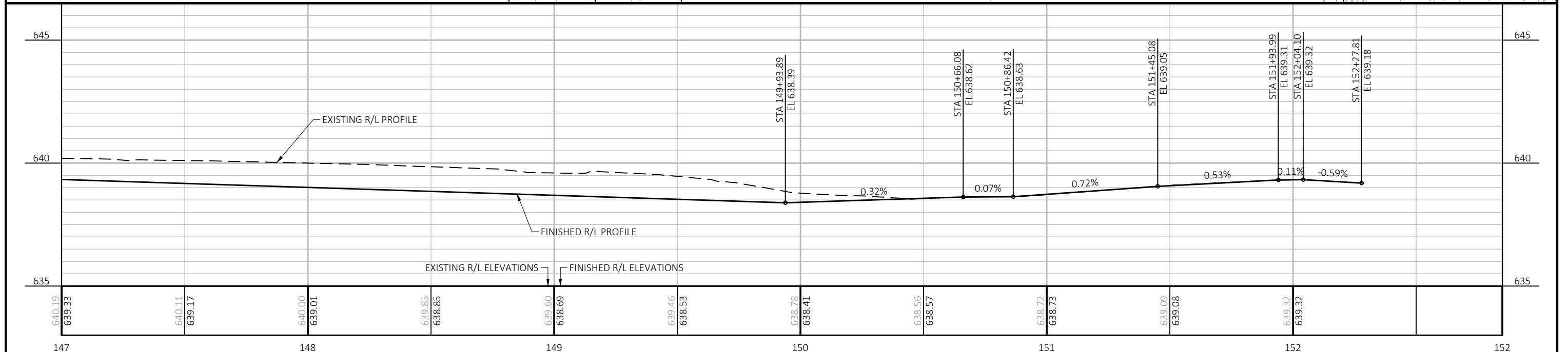
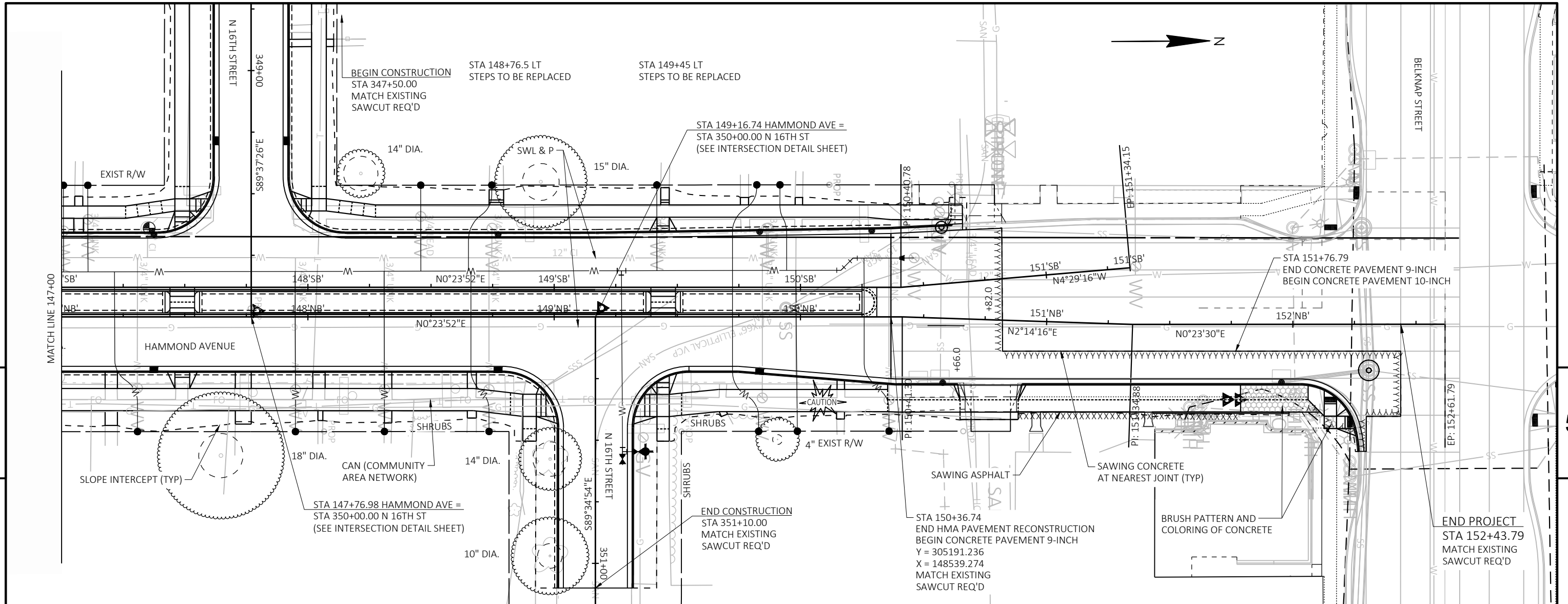
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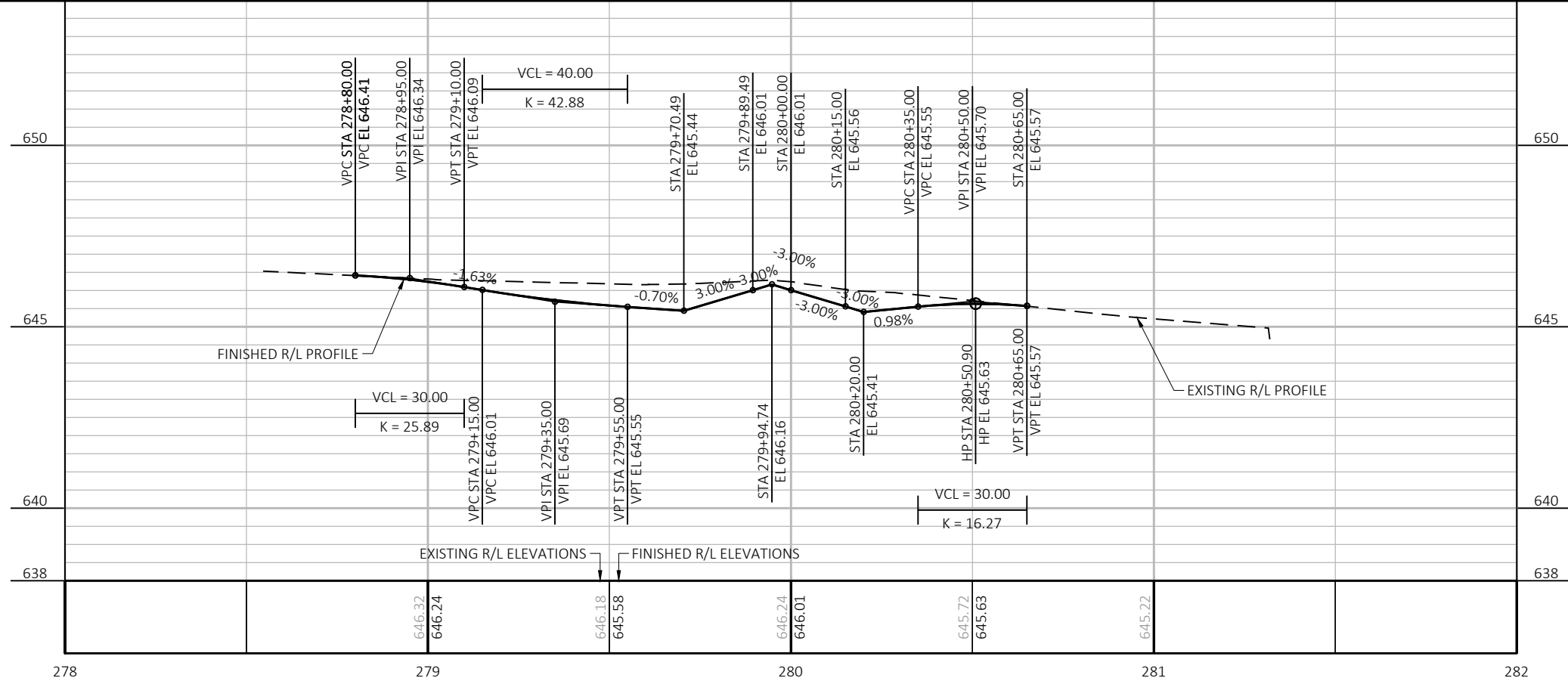
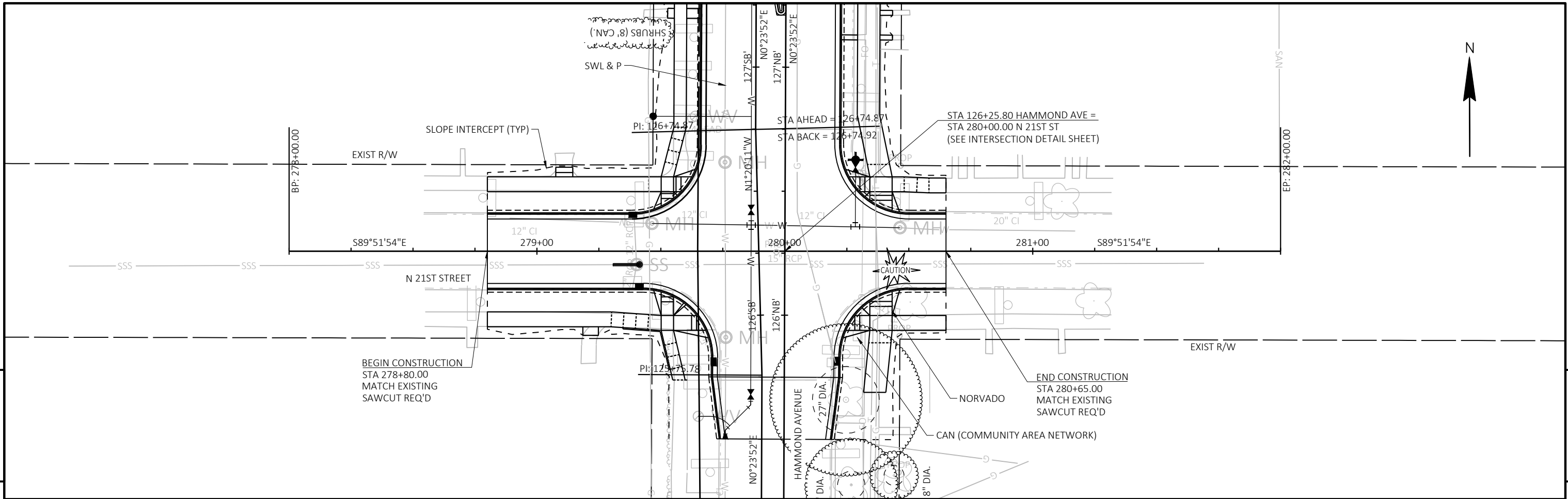
PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS PLAN AND PROFILE: HAMMOND AVENUE SHEET Page 117 of 207 E



PROJECT NO: _____ HWY: HAMMOND AVE COUNTY: DOUGLAS PLAN AND PROFILE: HAMMOND AVENUE SHEET Page 118 of 207 **E**

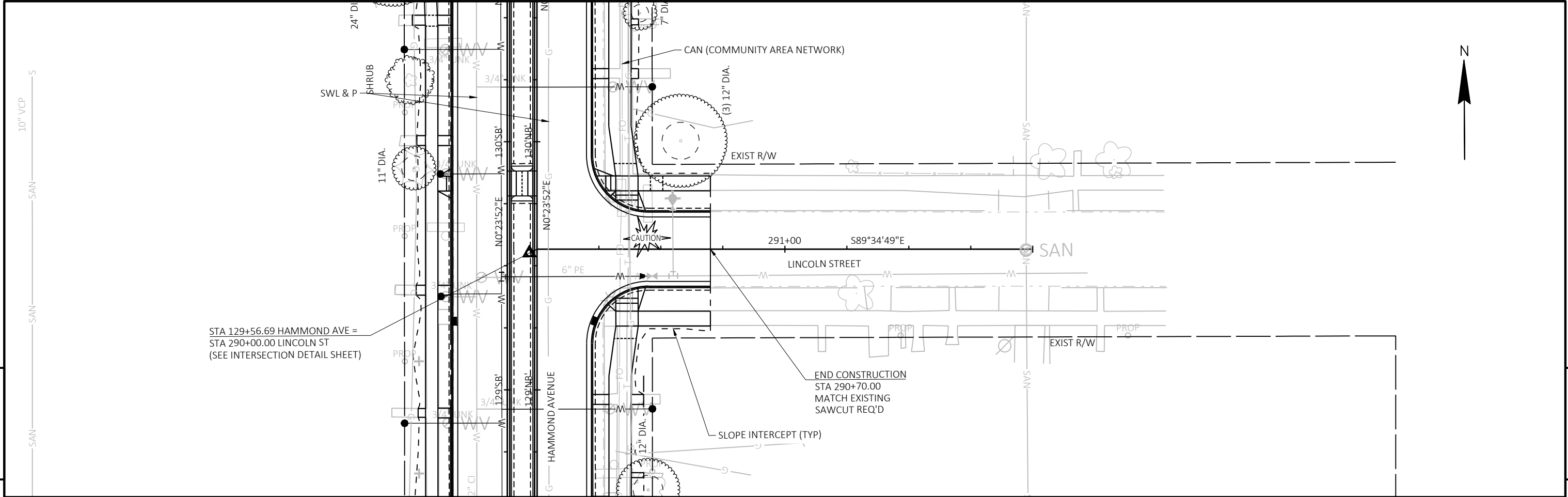


PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	PLAN AND PROFILE: HAMMOND AVENUE	SHEET Page 119 of 207
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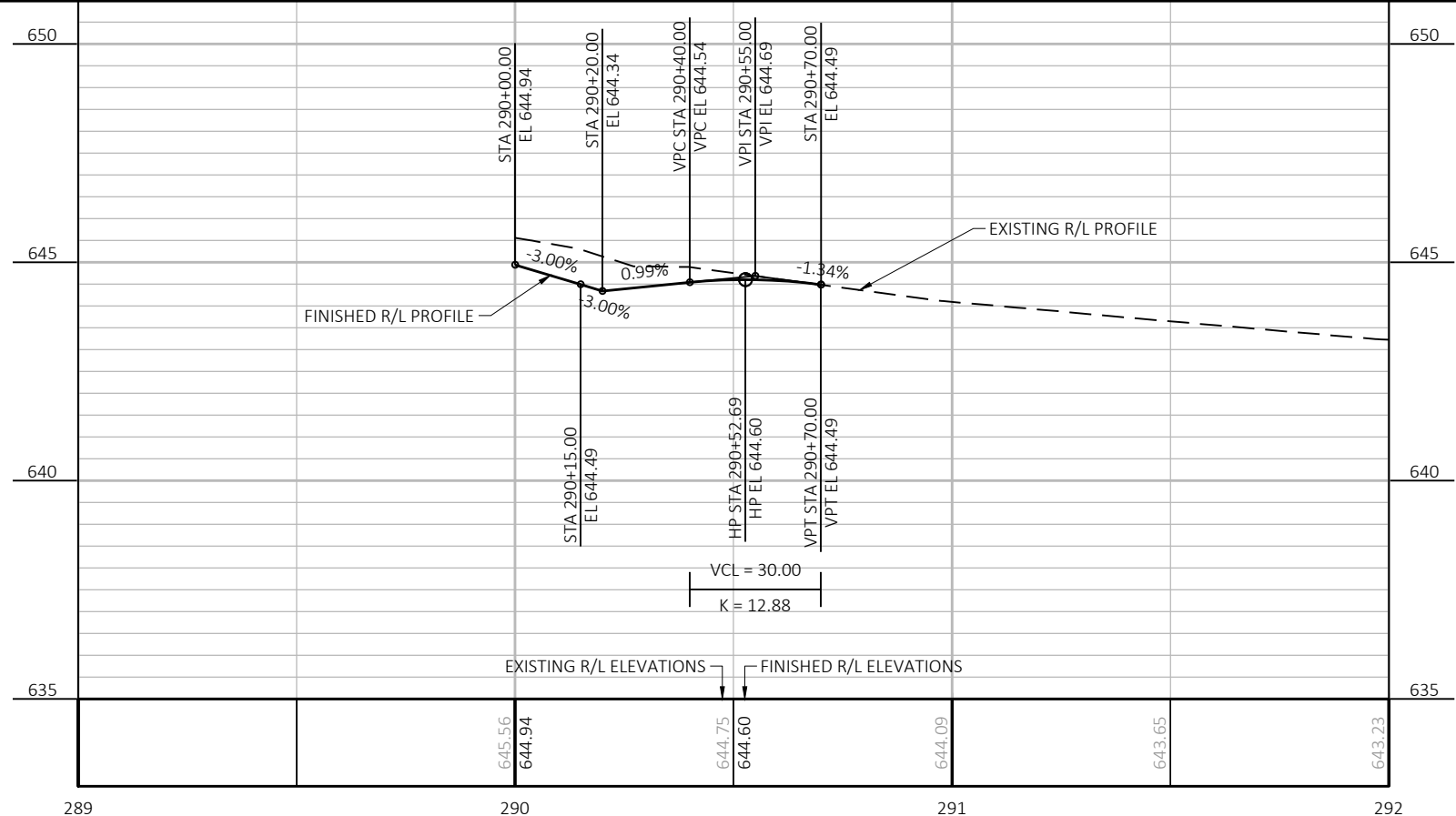


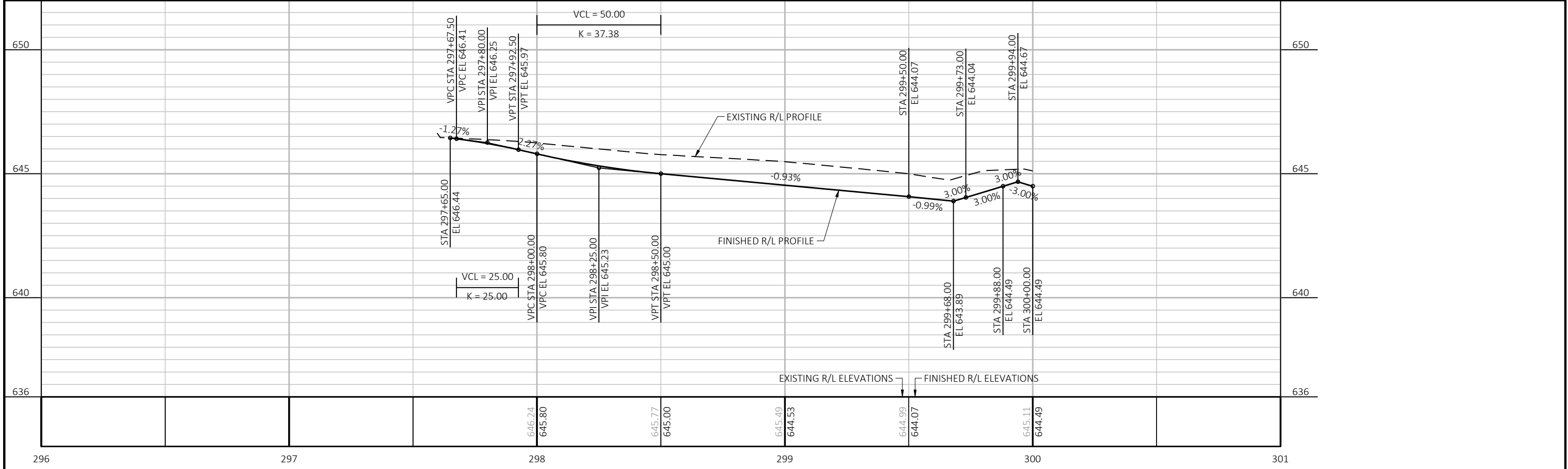
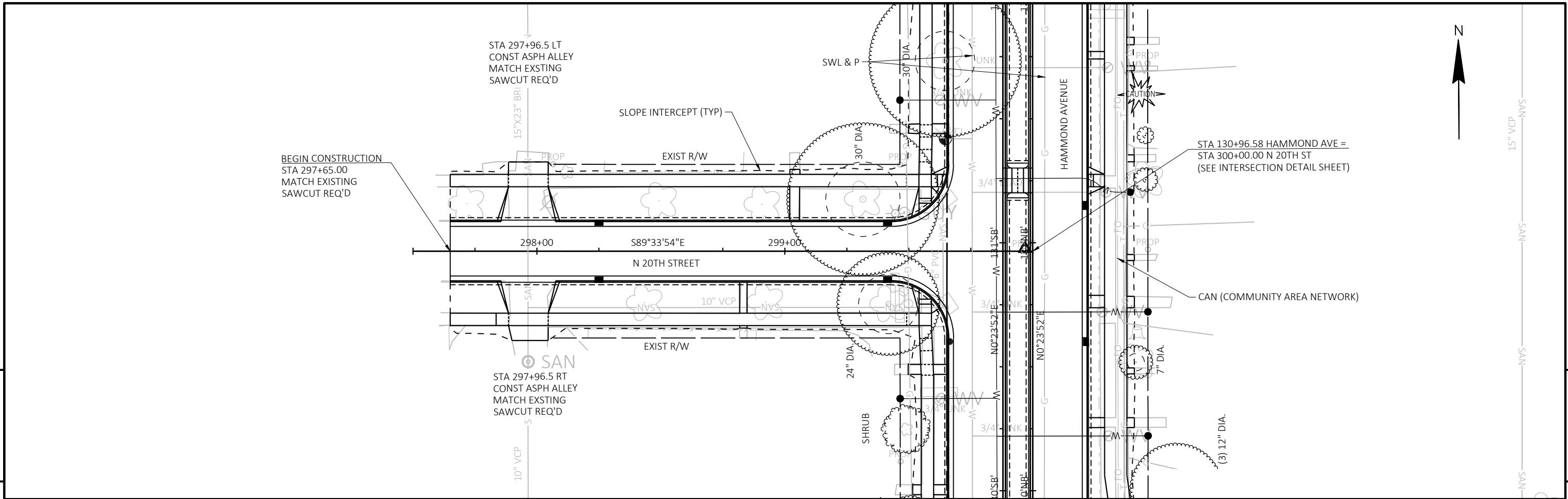
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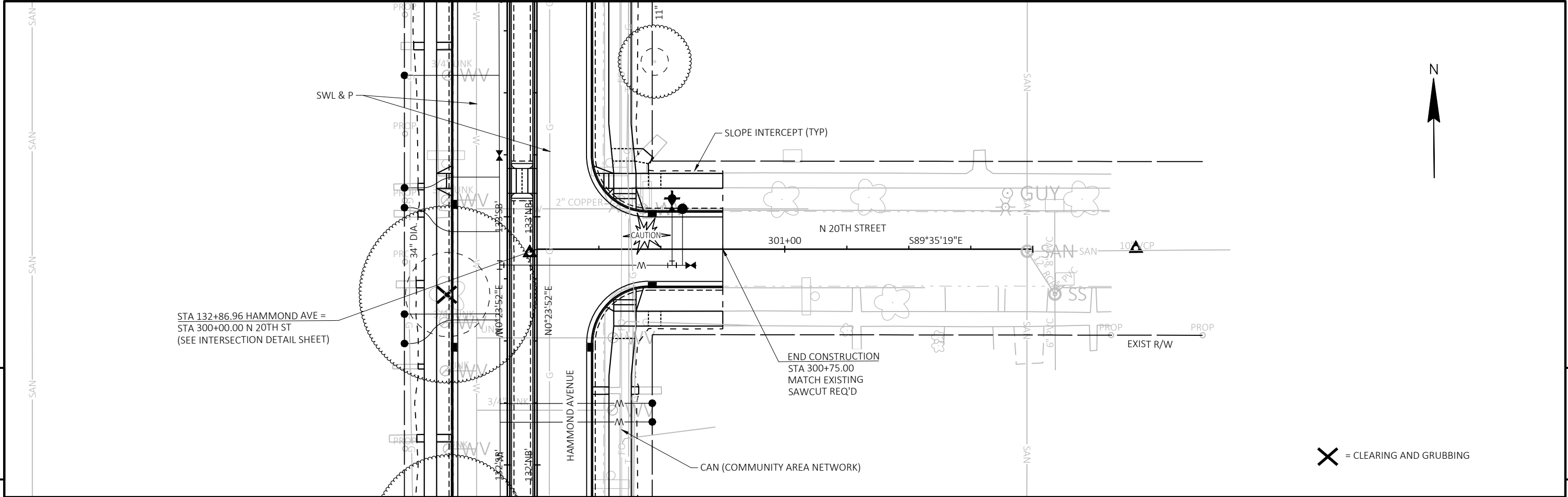
STA 129+56.69 HAMMOND AVE =
 STA 290+00.00 LINCOLN ST
 (SEE INTERSECTION DETAIL SHEET)



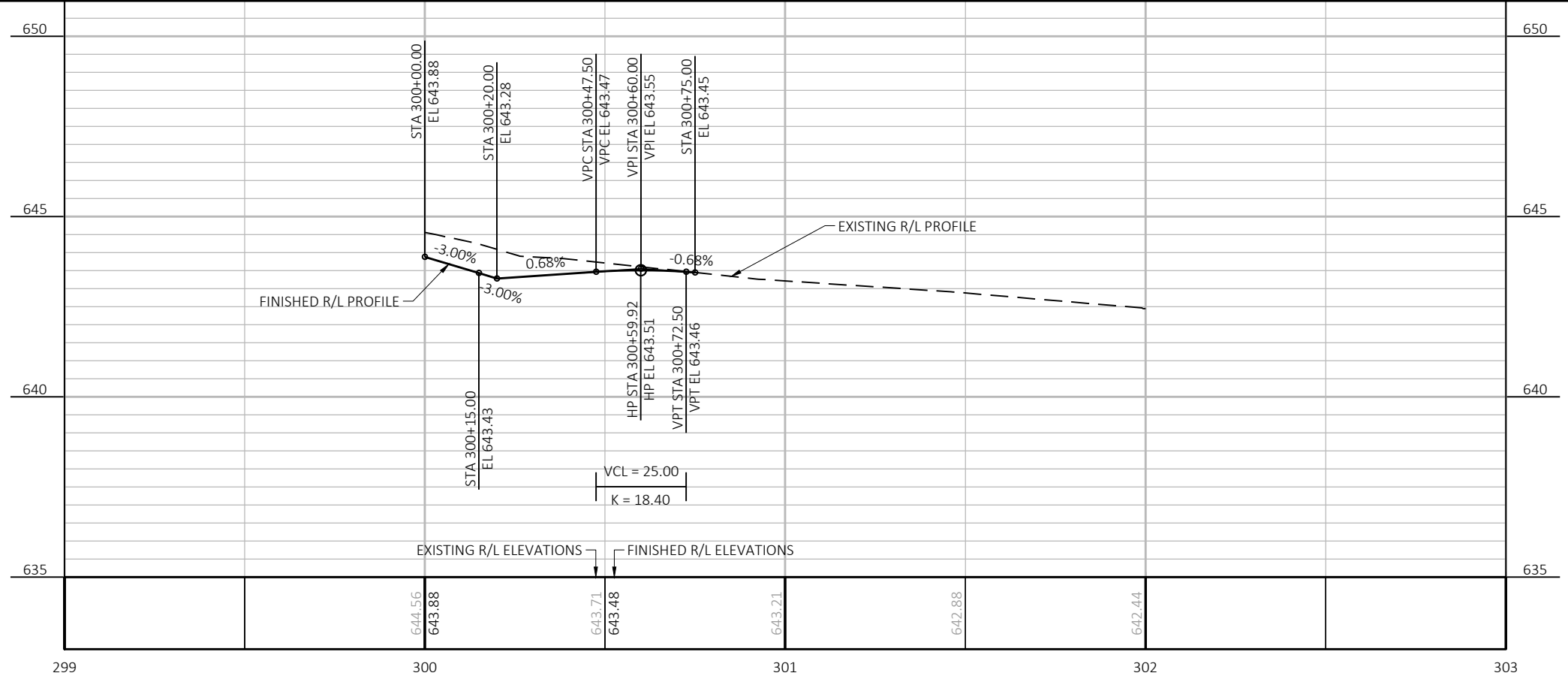


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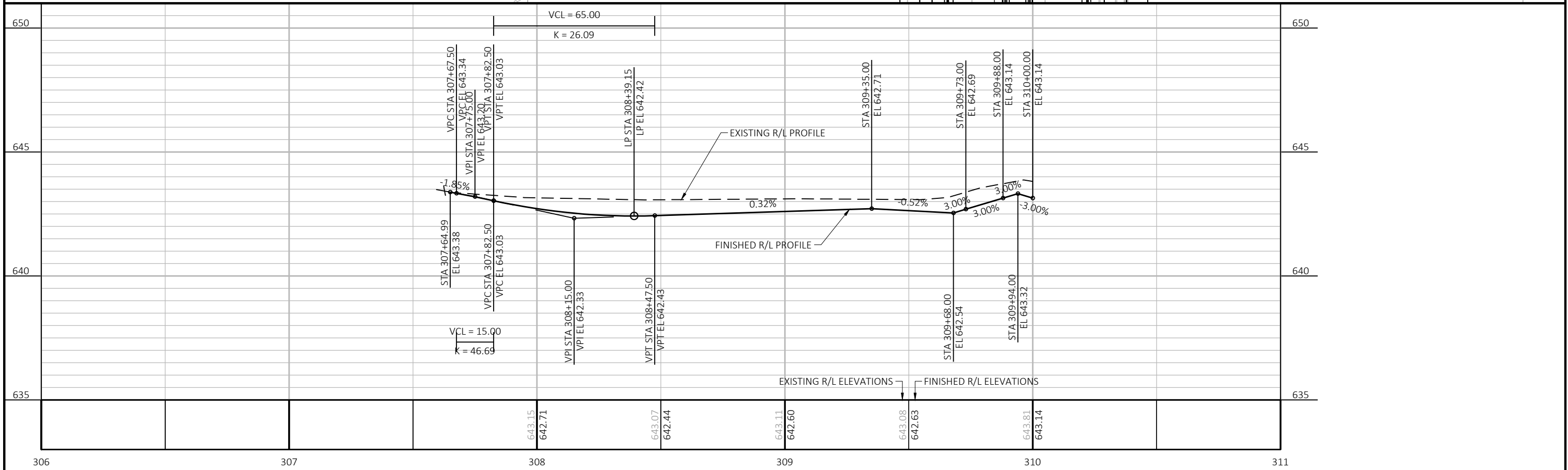
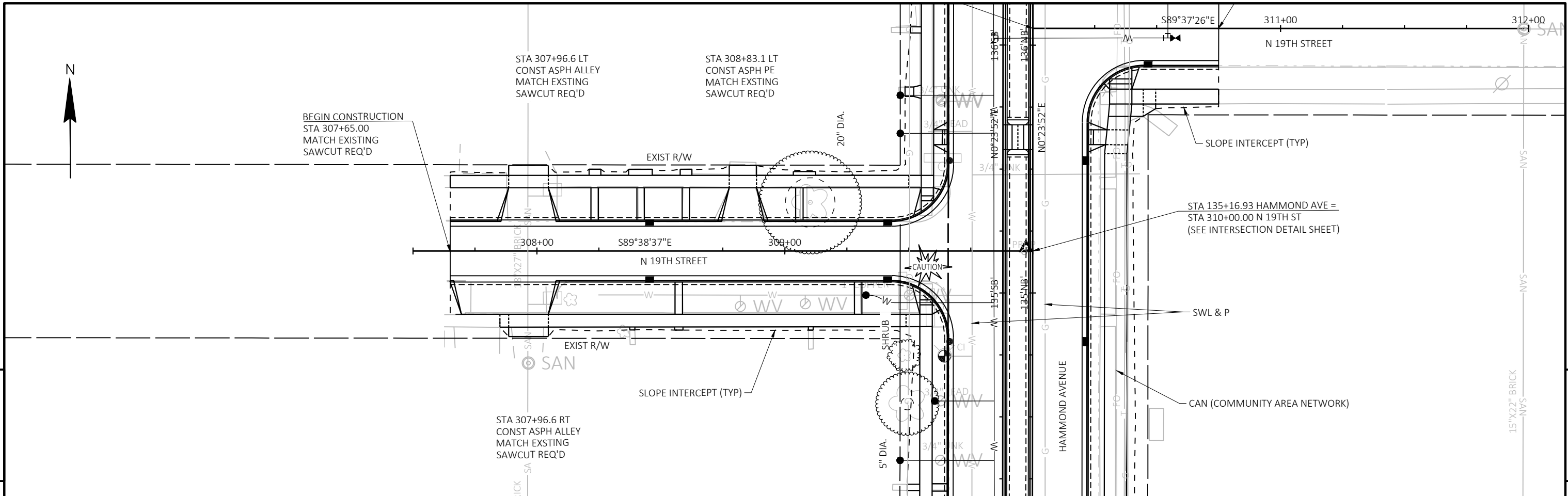
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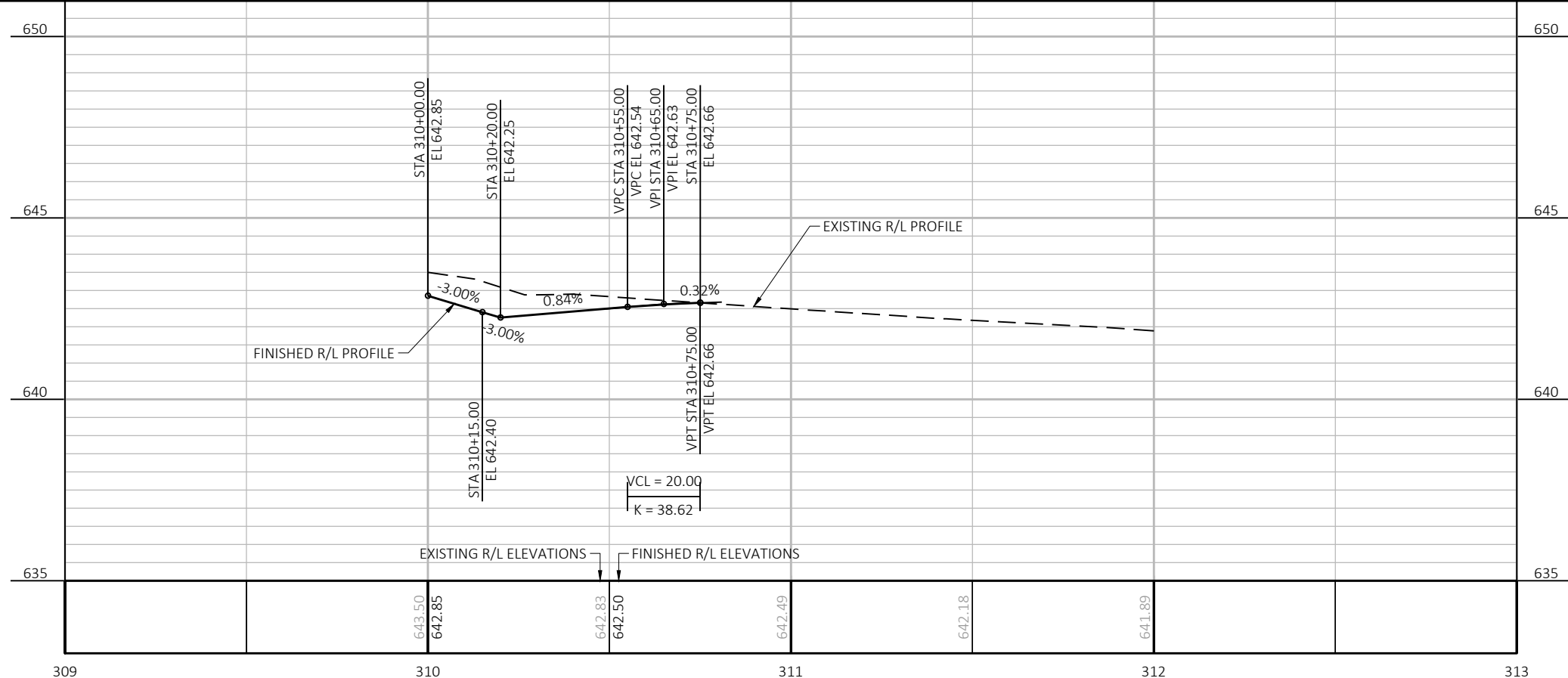
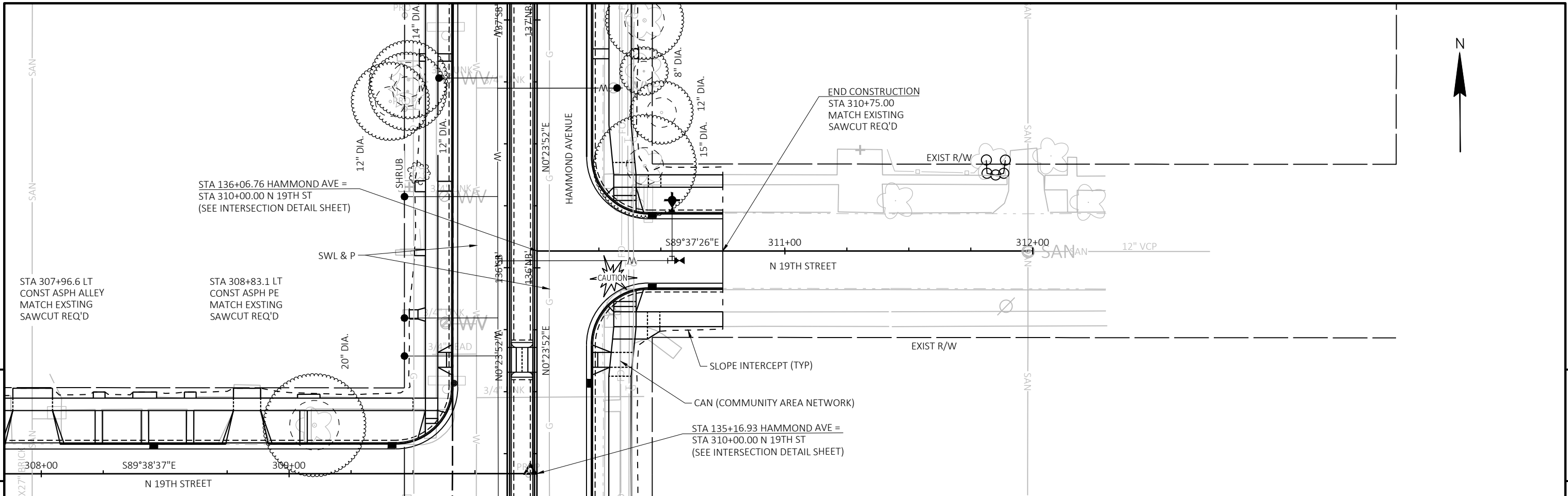


X = CLEARING AND GRUBBING

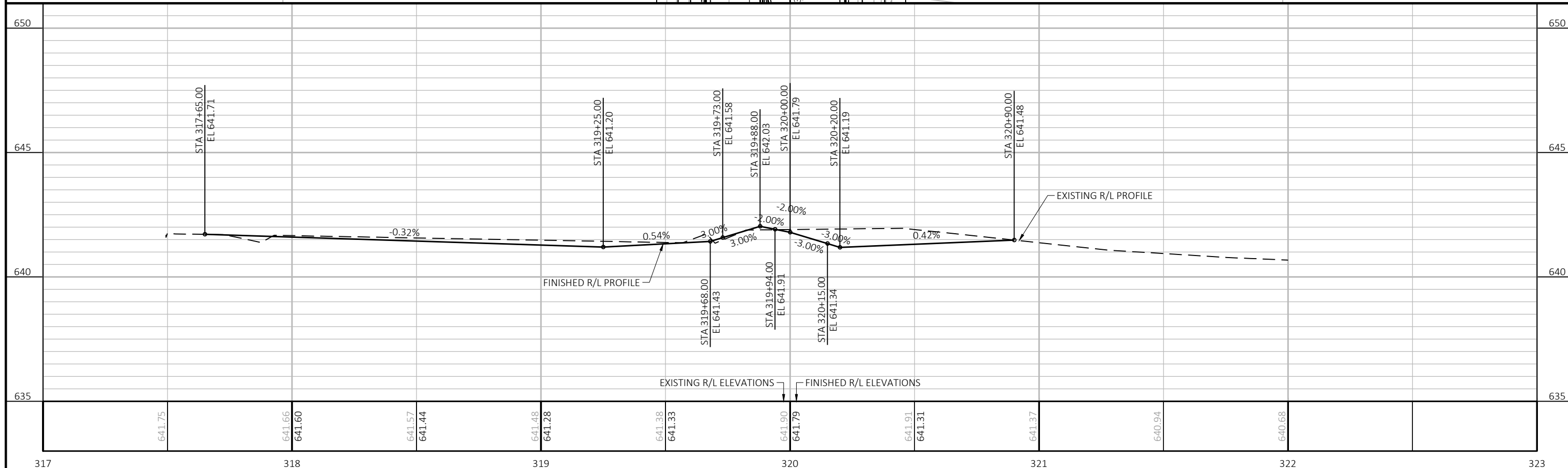
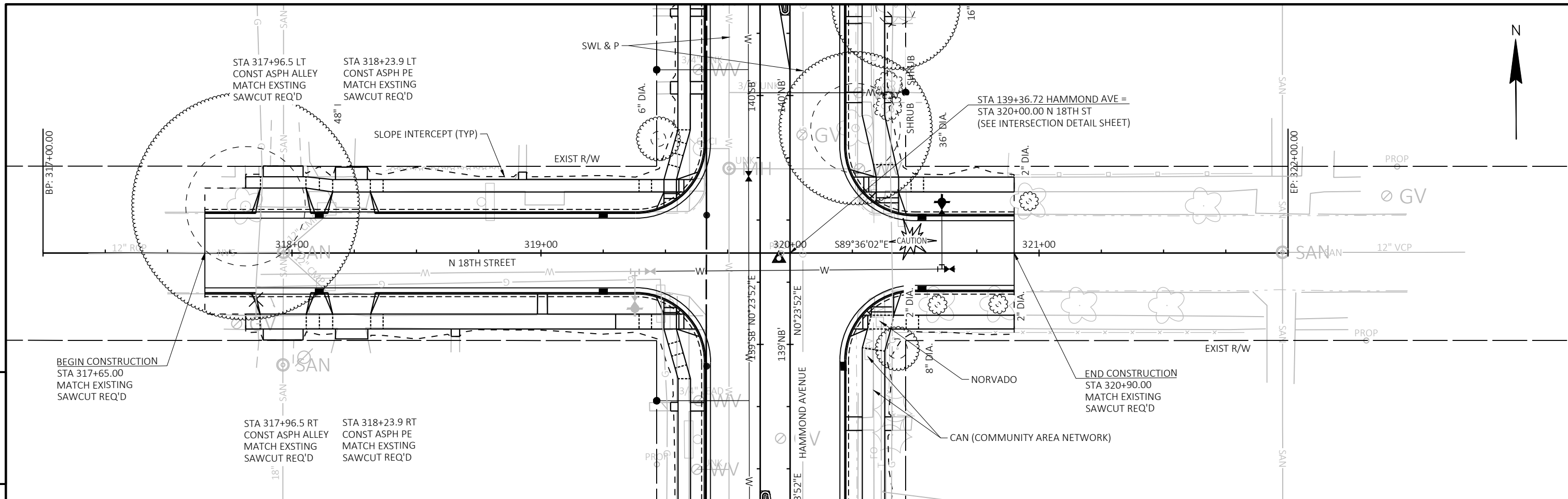


PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	PLAN AND PROFILE: N 20TH STREET	SHEET Page 123 of 207	E
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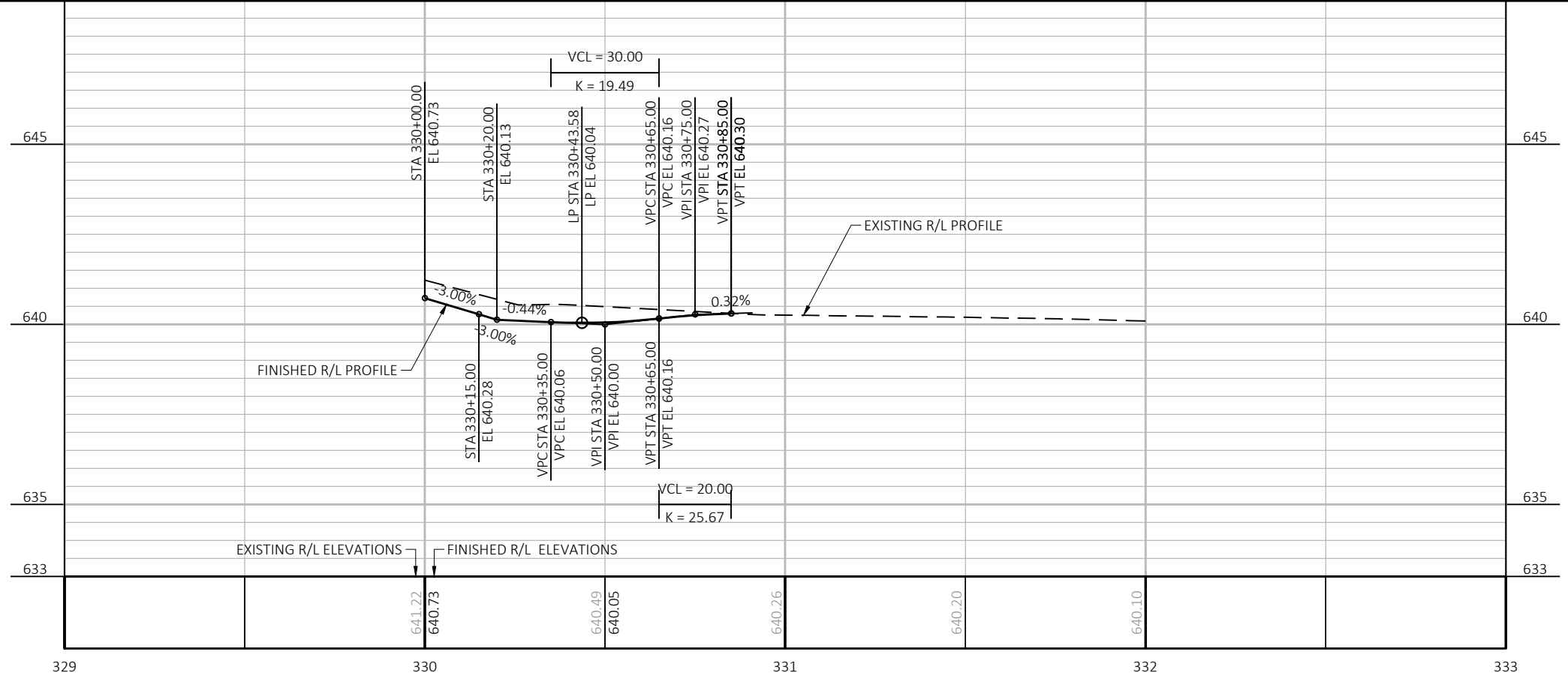
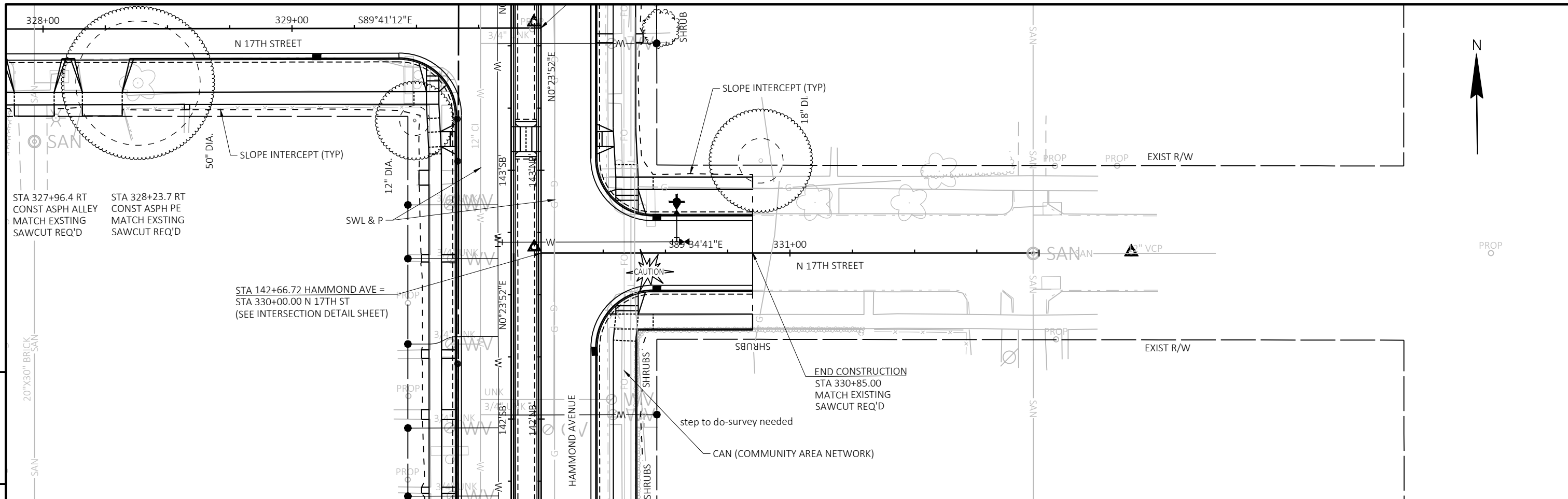




PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS PLAN AND PROFILE: N 19TH STREET SHEET Page 125 of 207 E



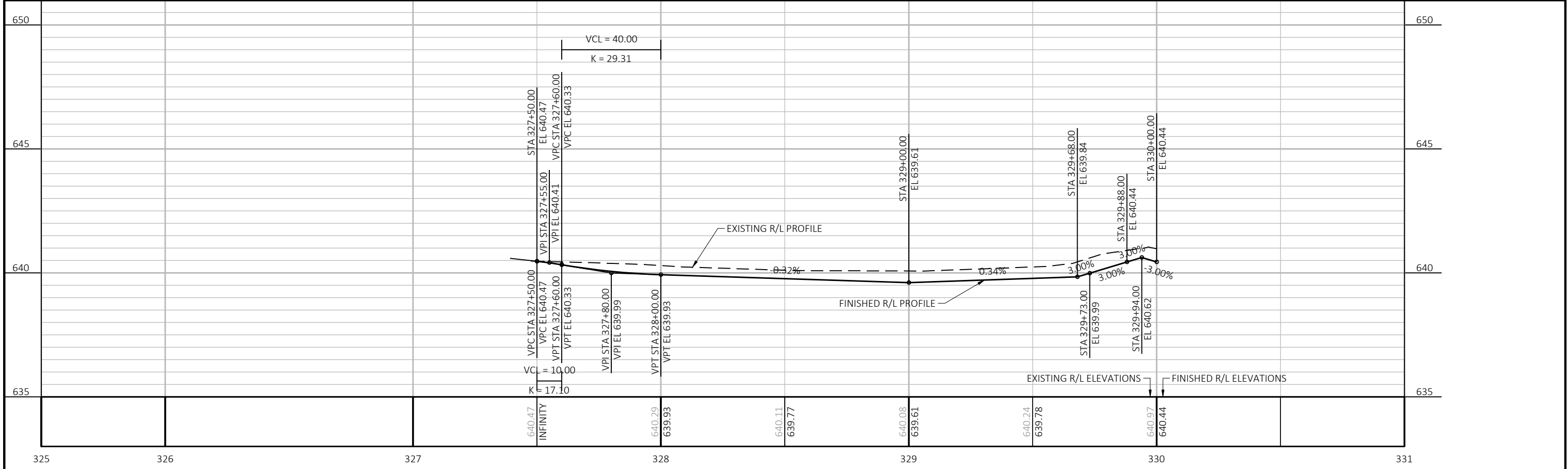
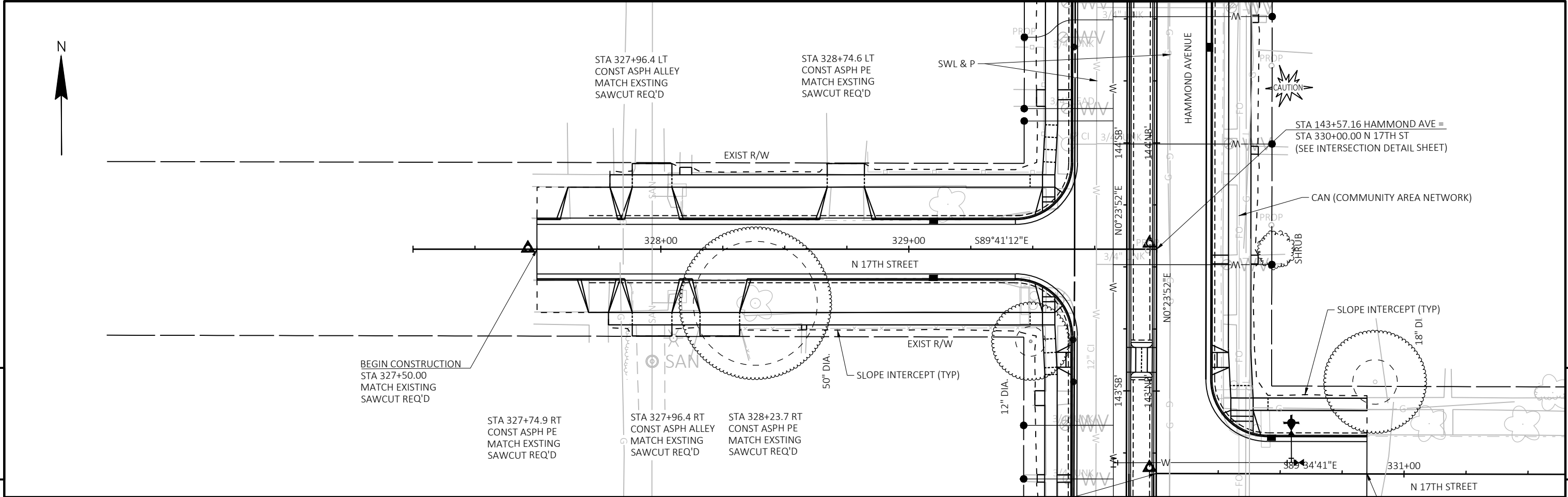
PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS PLAN AND PROFILE: N 18TH STREET SHEET Page 126 of 207 E





5

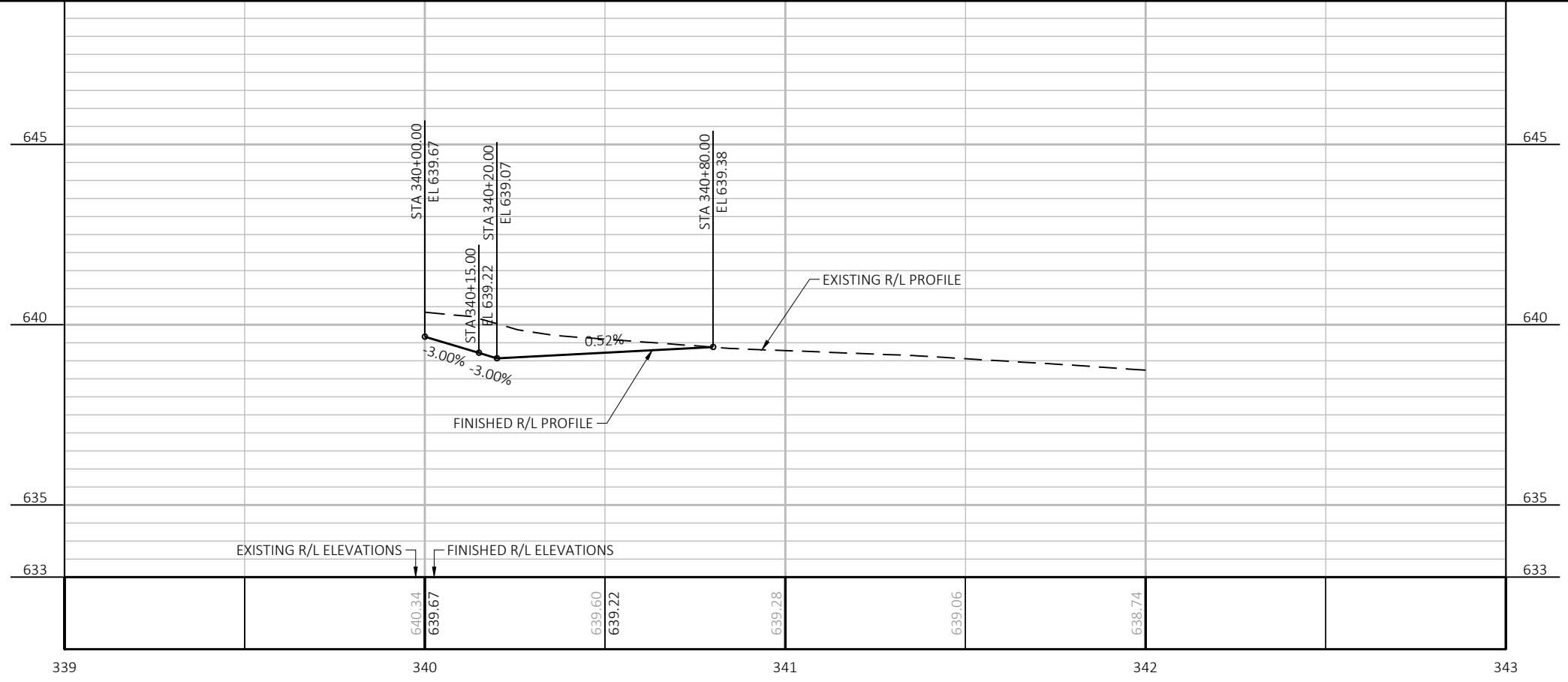
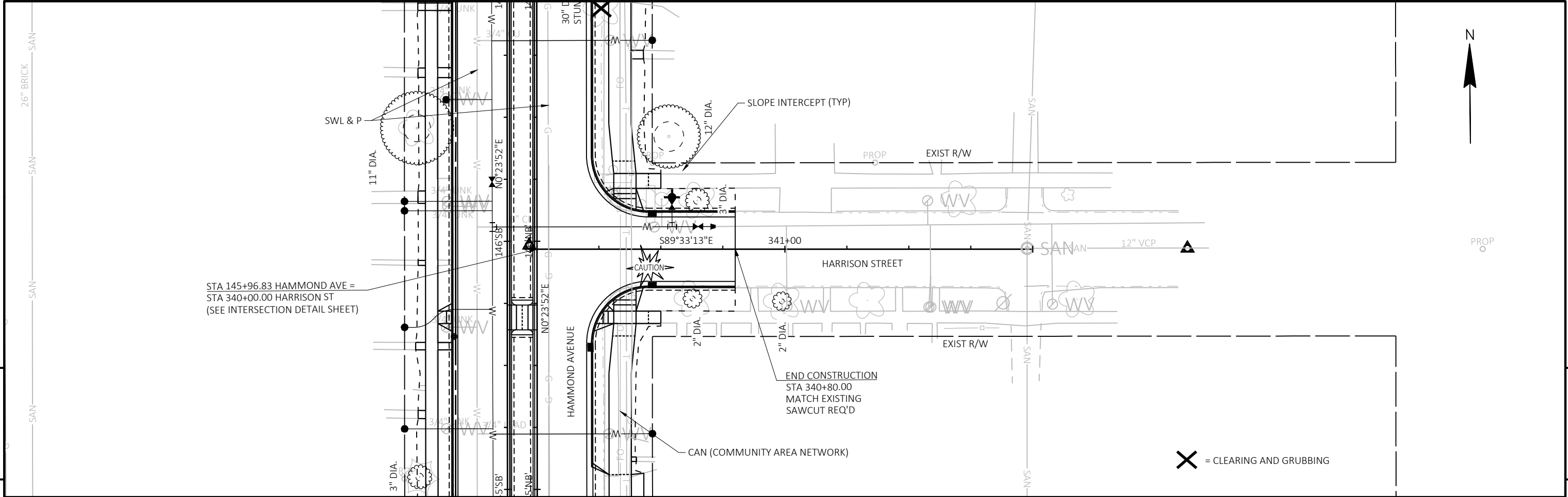
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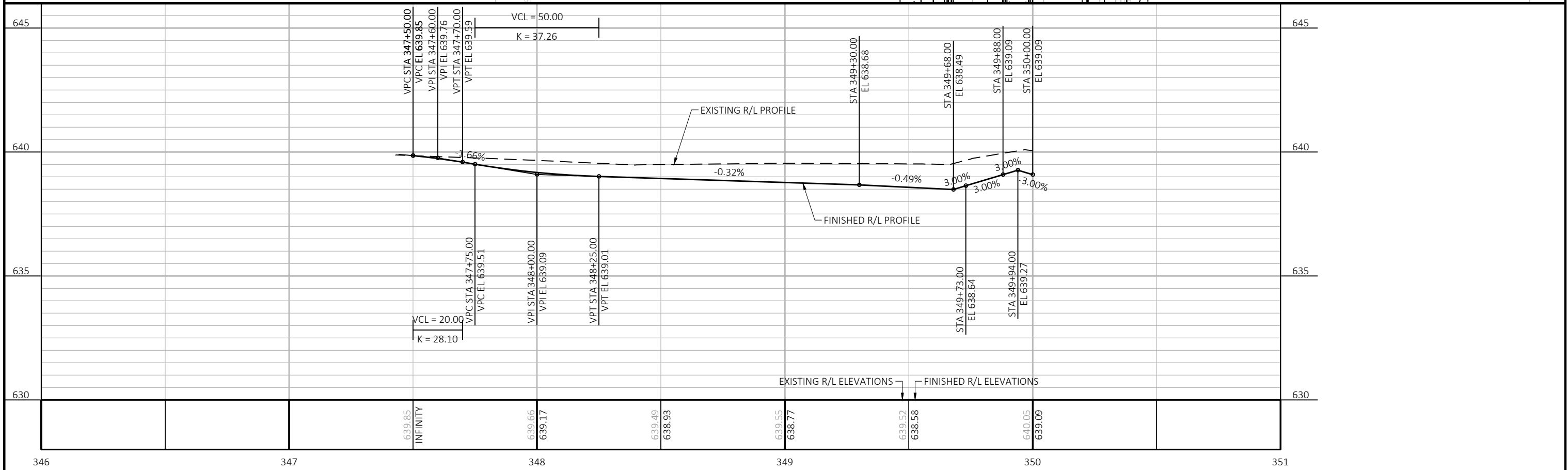
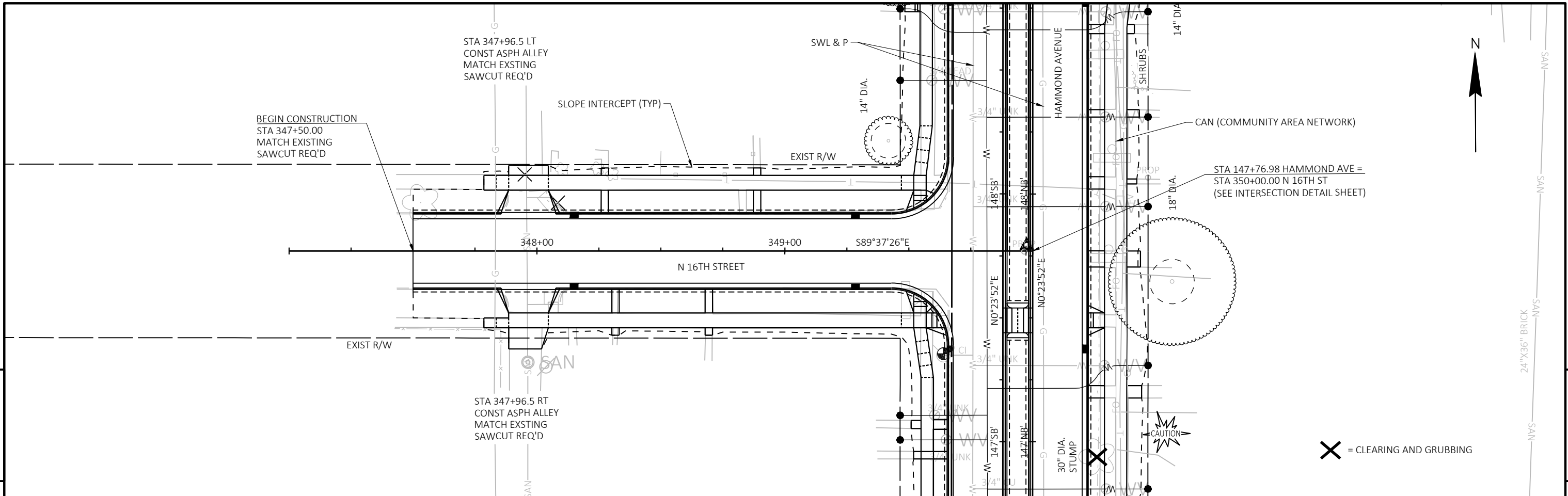
PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	PLAN AND PROFILE: N 17TH STREET	SHEET Page 128 of 207
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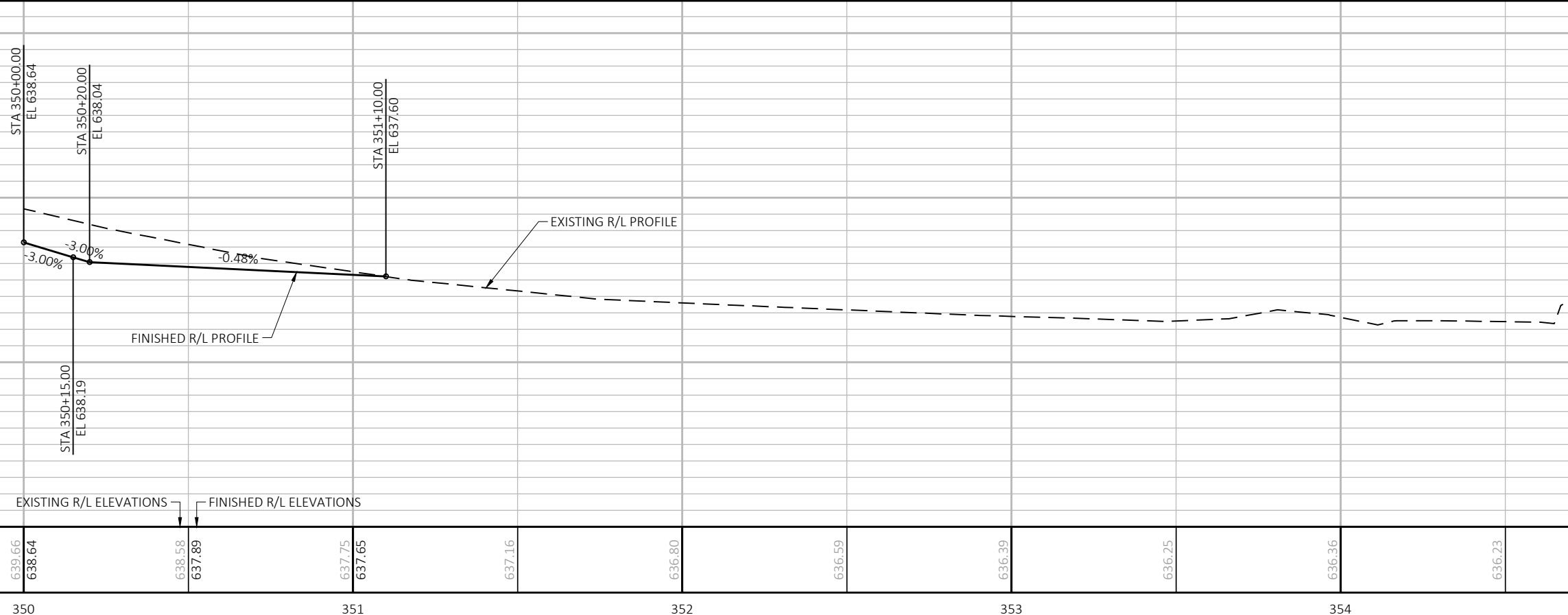
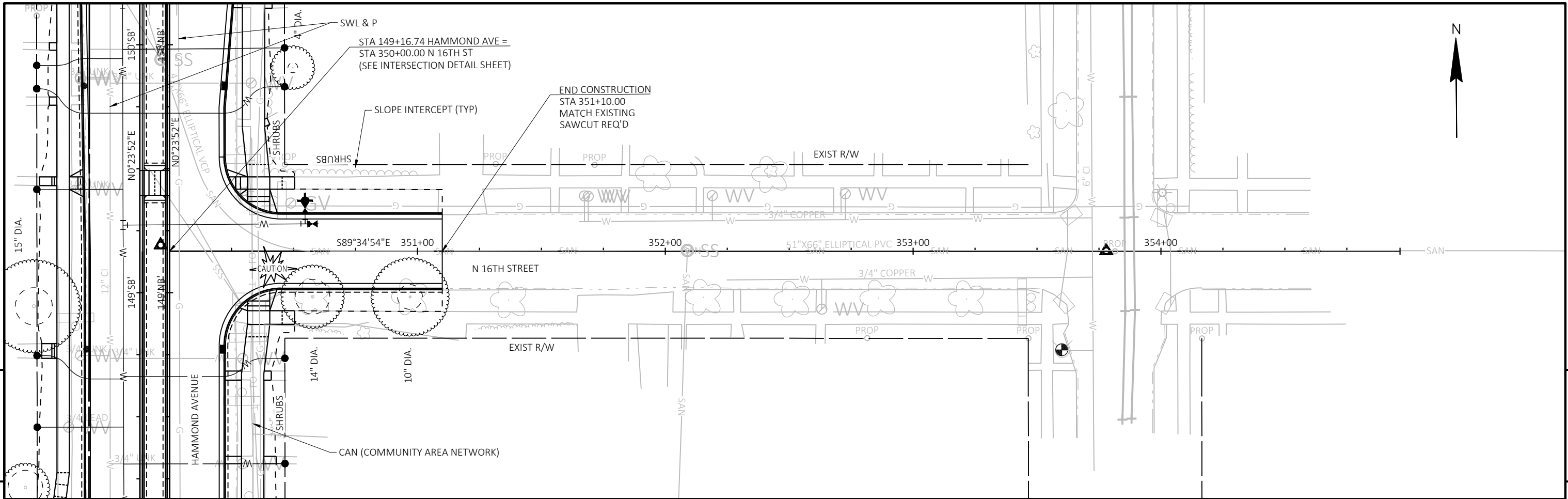
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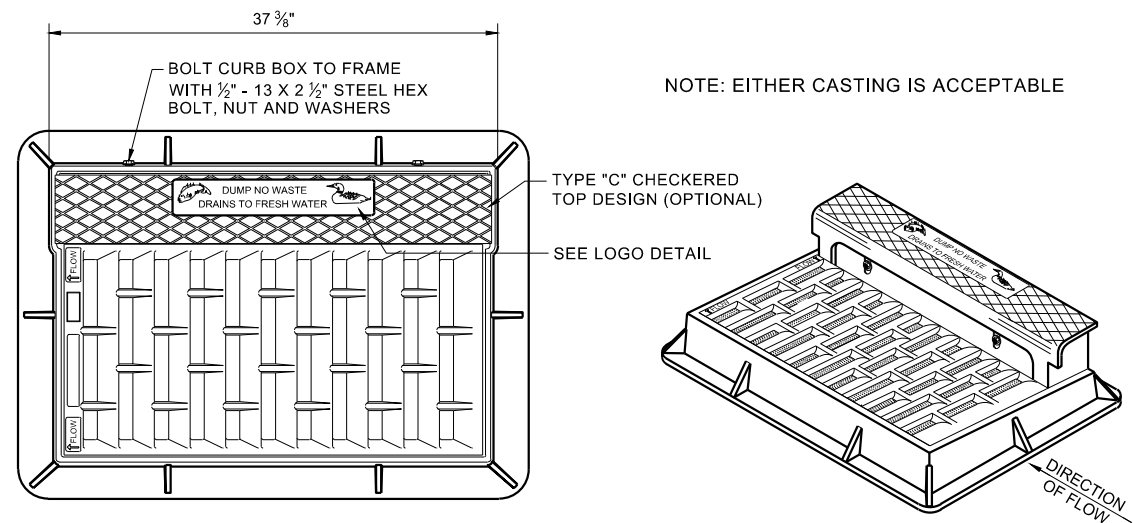


PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	PLAN AND PROFILE: HARRISON STREET	SHEET Page 129 of 207	E
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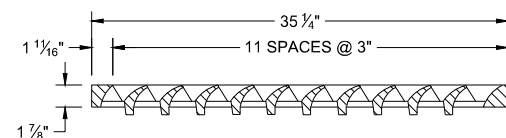
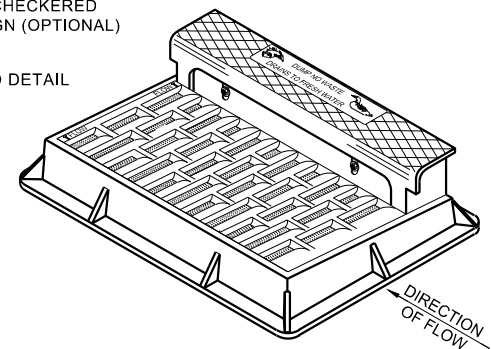


PROJECT NO:	HWY: HAMMOND AVE	COUNTY: DOUGLAS	PLAN AND PROFILE: N 16TH STREET	SHEET Page 131 of 207	E
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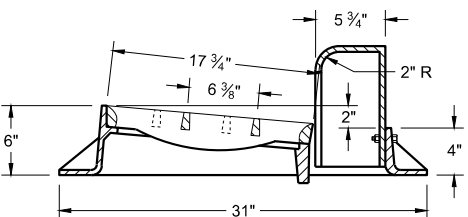
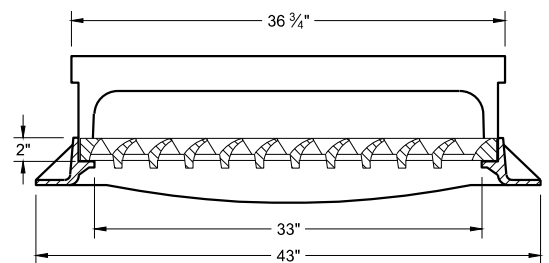
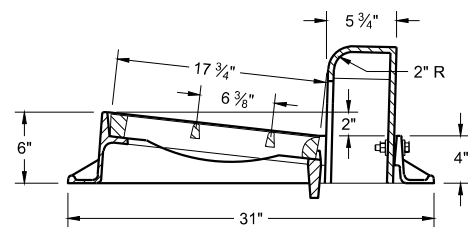
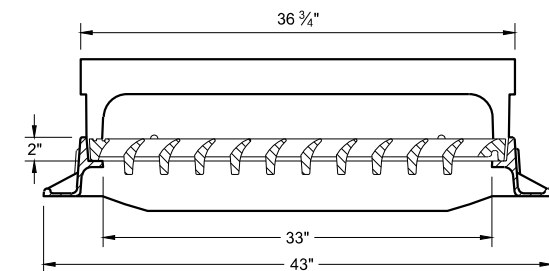


NOTE: EITHER CASTING IS ACCEPTABLE

TYPE "C" CHECKERED TOP DESIGN (OPTIONAL)
SEE LOGO DETAIL



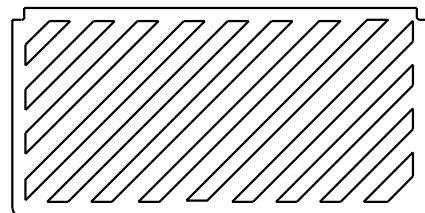
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"



TYPE "H"

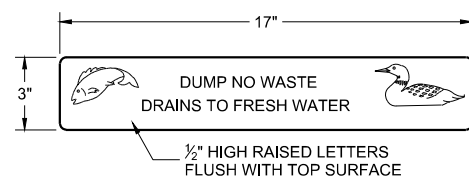
NOTE: EITHER CASTING IS ACCEPTABLE

1 1/8" DIAGONAL BARS WITH 1 5/8" OPENINGS



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 3/4" X 2")
(NOTED AS TYPE H-S ON DRAINAGE TABLE)



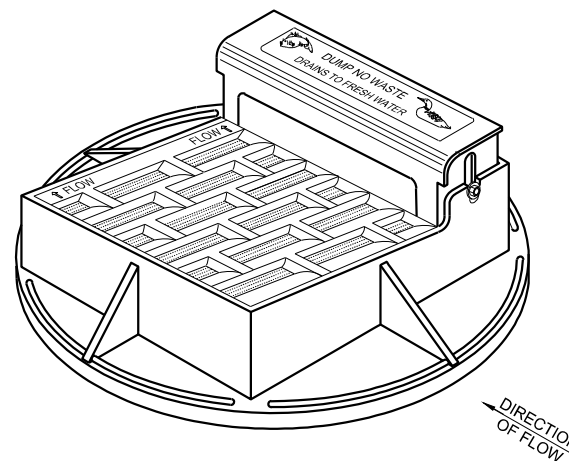
LOGO DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

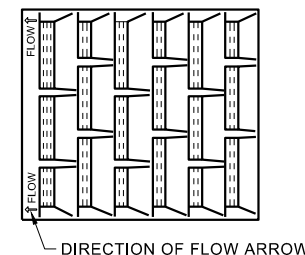
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

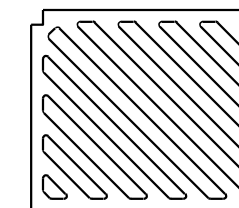


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"

NOTE: EITHER CASTING IS ACCEPTABLE

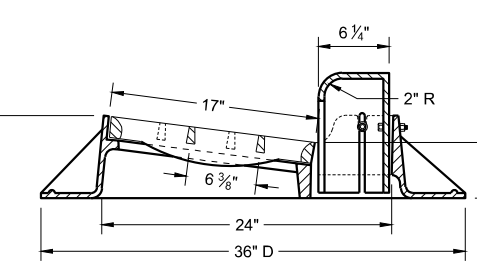
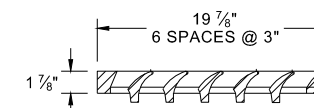
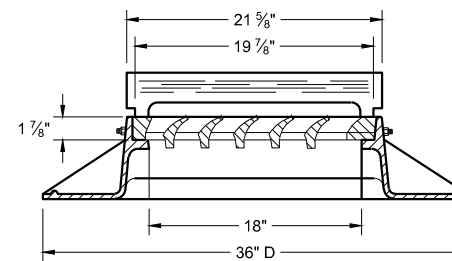


1" DIAGONAL BARS WITH 1 1/2" OPENINGS

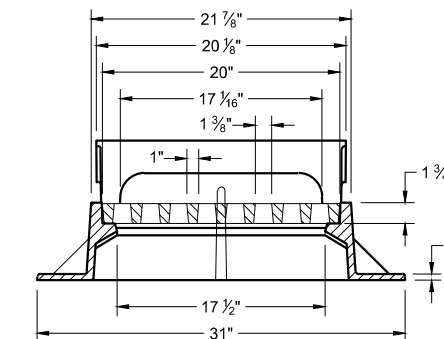
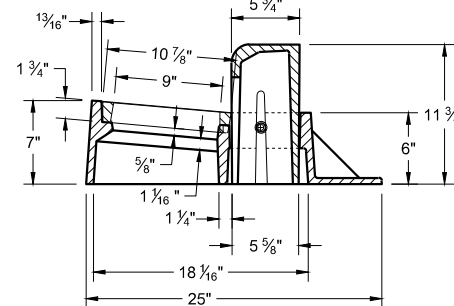


SPECIAL GRATE FOR TYPE "A" COVER

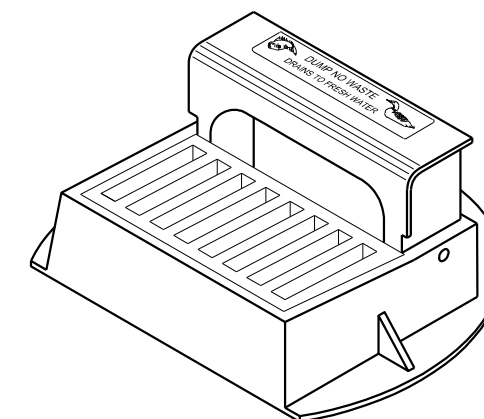
(MEASURES 19 3/4" X 17" X 1 7/8")
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"



TYPE "Z"



INLET COVERS TYPES A, H, A-S, H-S AND Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 DATE /S/ Rodney Tayler
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR



SDD 08B09 Manholes, 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT and 10-FT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

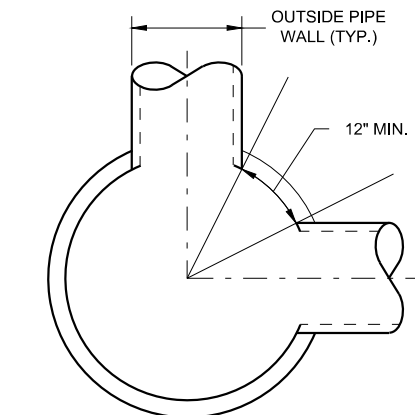
PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

- ① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- ② SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES
- ③ SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.
- ④ JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).
- ⑤ SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

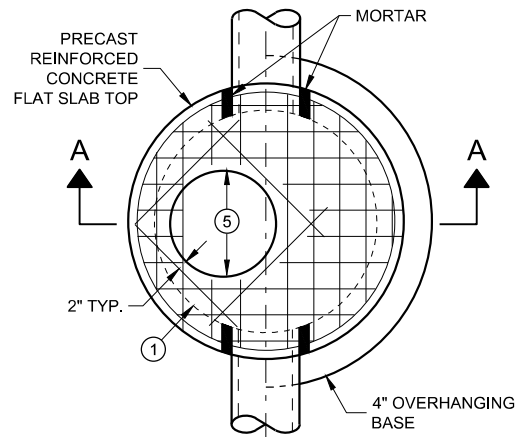
MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE \ OPENING SIZE (FT.)	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

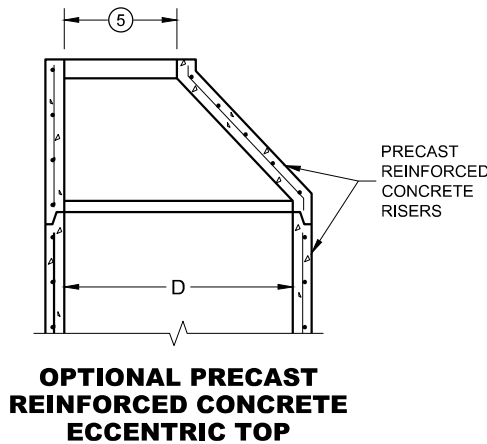
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

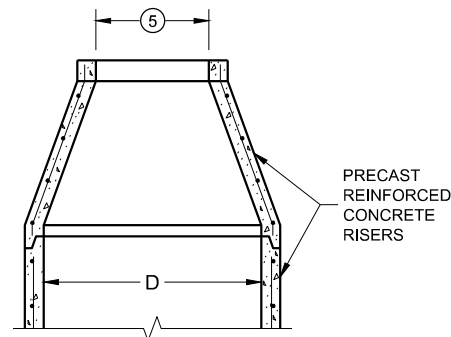
*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.



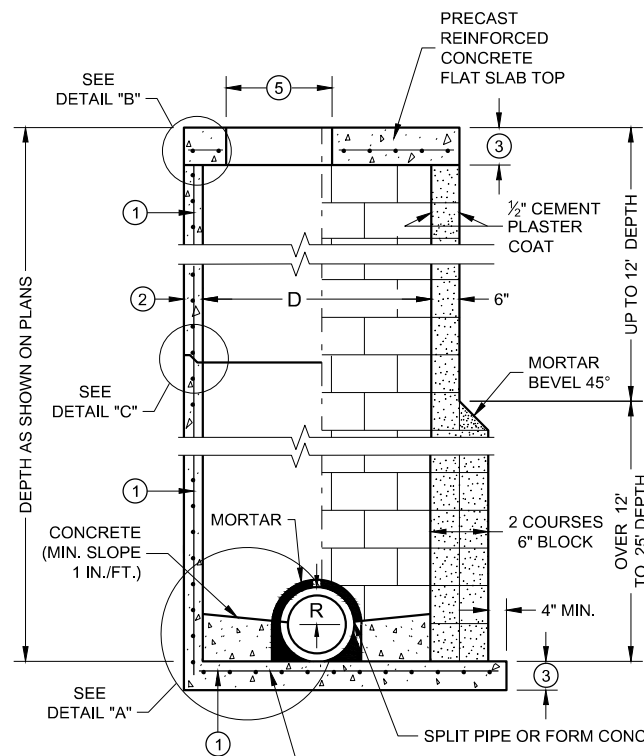
PLAN VIEW CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



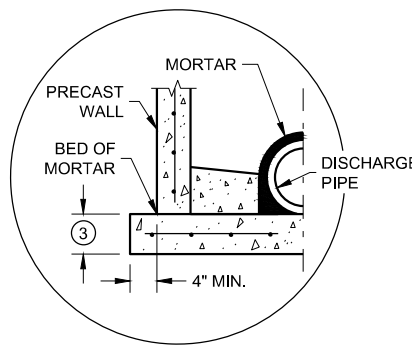
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



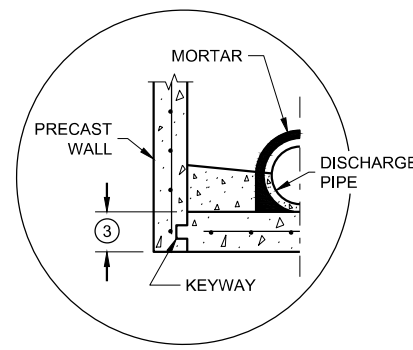
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE ①

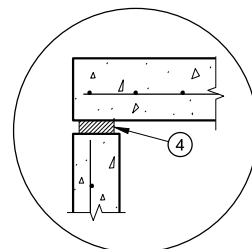


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

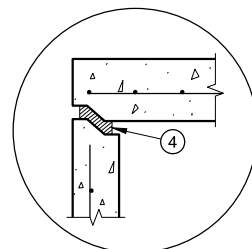


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

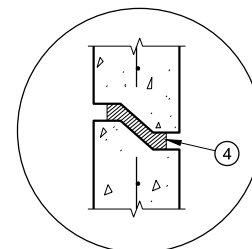
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

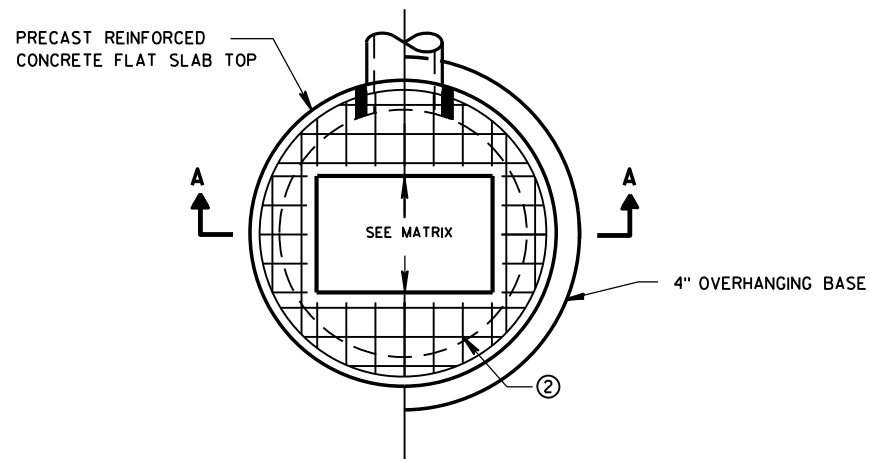
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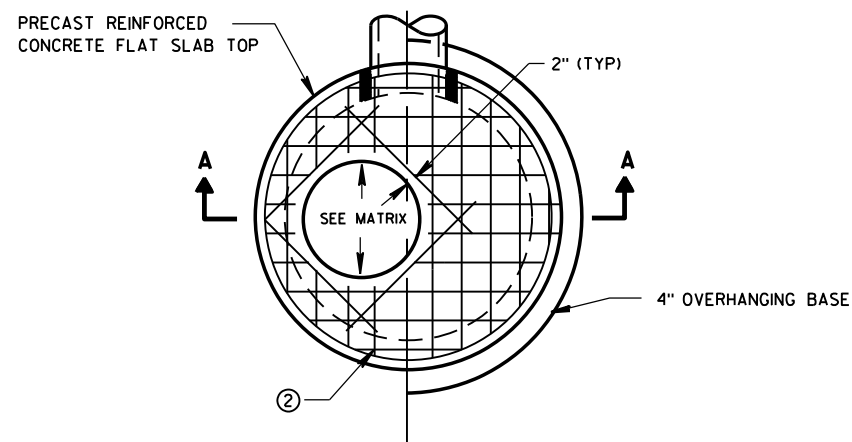
**MANHOLES, 3-FT, 4-FT
5-FT, 6-FT, 7-FT, 8-FT, 9-FT
AND 10-FT DIAMETER**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

GENERAL NOTES

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ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

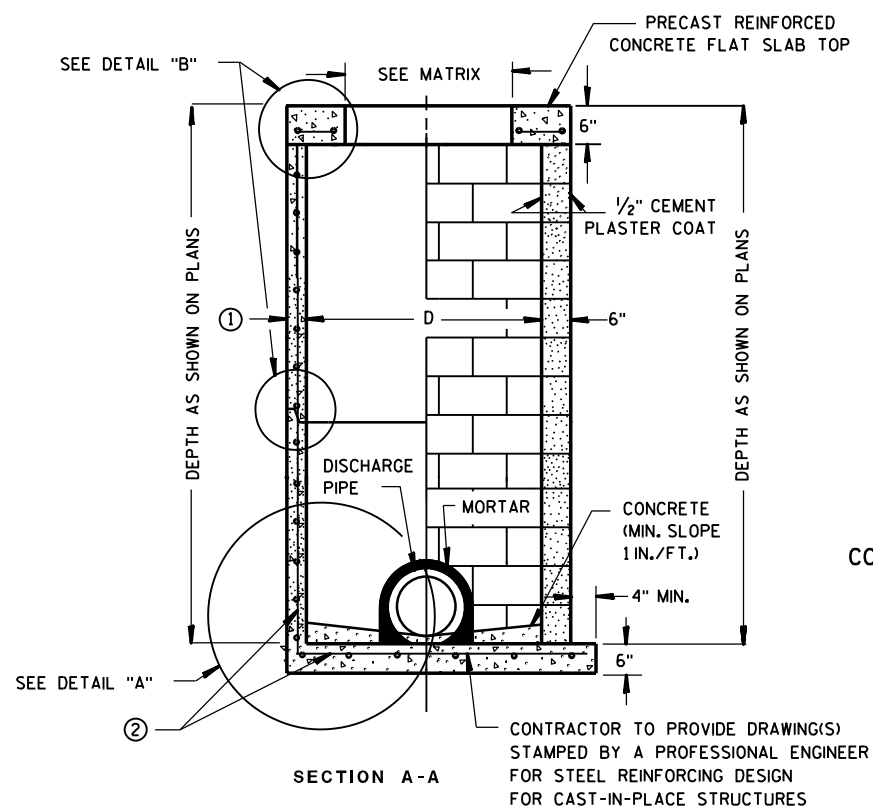
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- ① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.
- ② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

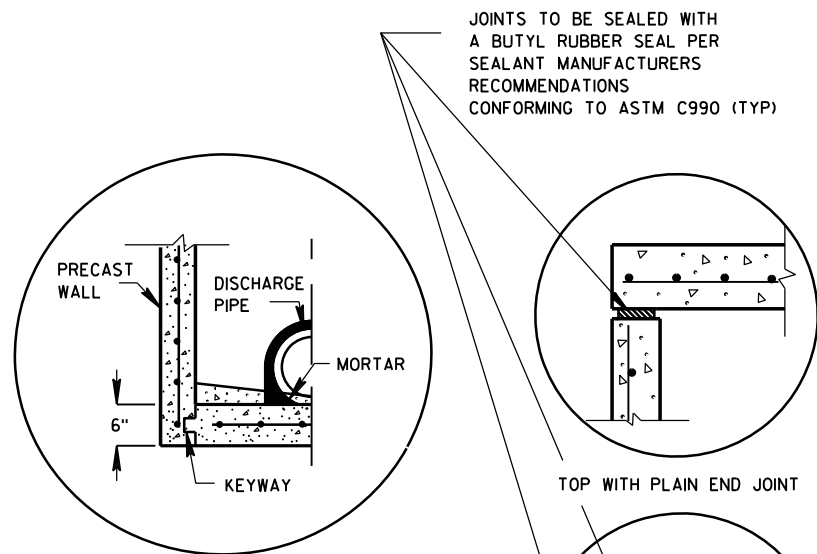
INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X	X	
	2X2.5			X								
	2X3						X					
	2.5X3					X						

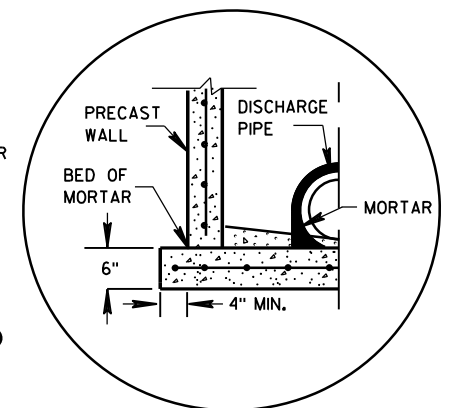


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE OR CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

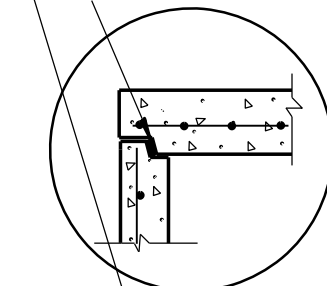


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

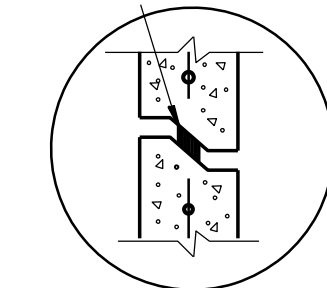


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



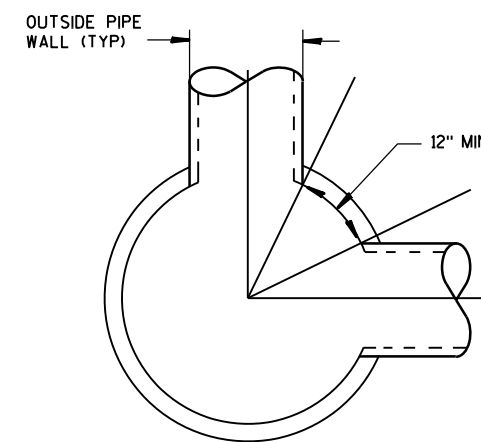
TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

INLETS 3-FT AND 4-FT DIAMETER



DETAIL "C"

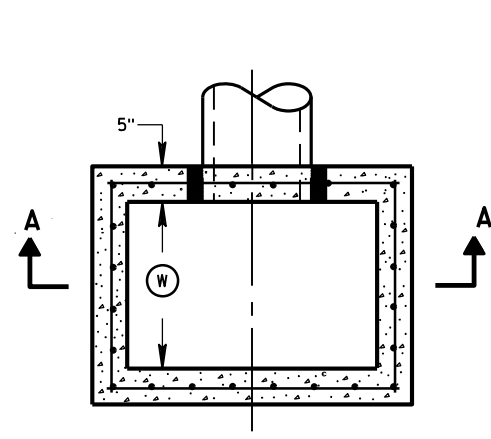
PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

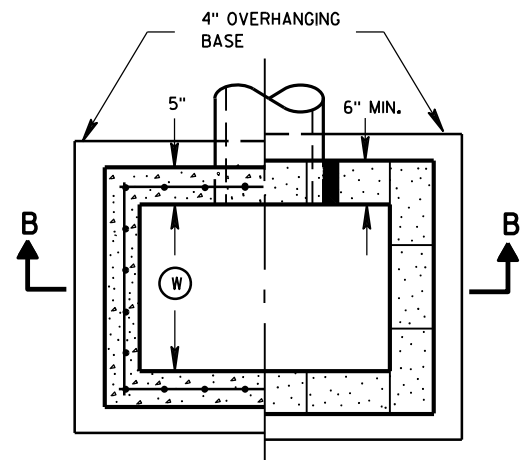
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

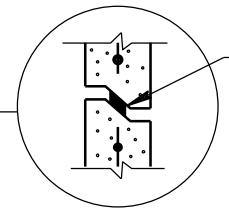
APPROVED
 Sept., 2016 /S/ Rodney Taylor
 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
 FHWA



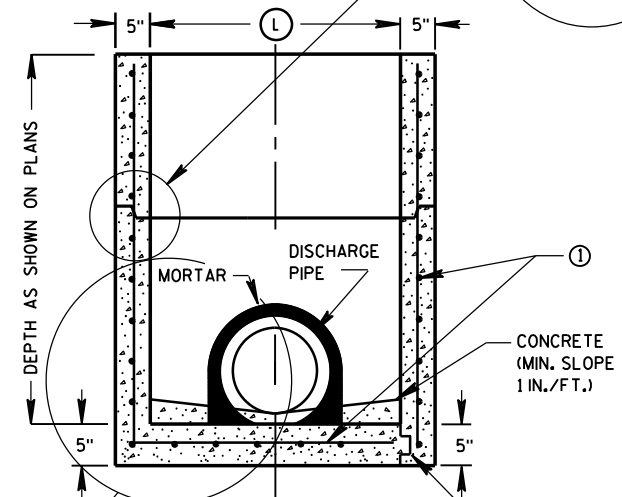
PLAN VIEW



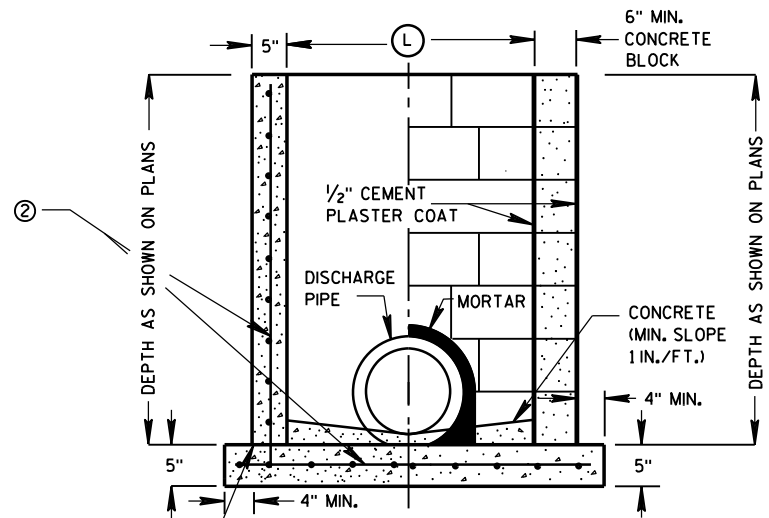
PLAN VIEW



RISER JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



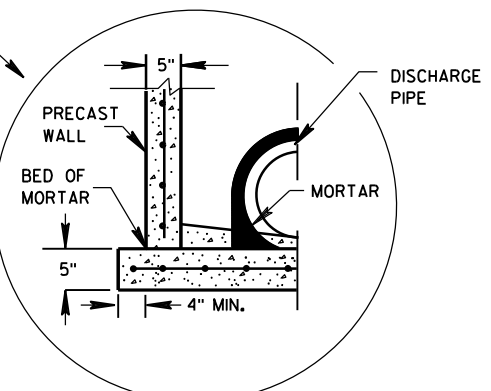
SECTION A-A



SECTION B-B

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE
 PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE
 KEYWAY

CONSTRUCTION JOINT
 CAST-IN-PLACE REINFORCED CONCRETE
 CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ①



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

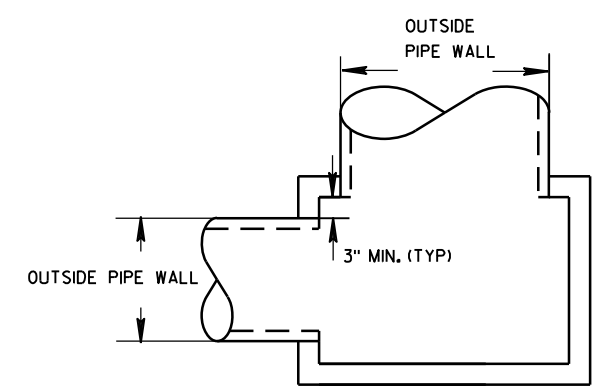
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE	INLET COVER TYPE		ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

**INLETS 2X2-FT, 2X2.5-FT,
2X3-FT AND 2.5X3-FT**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

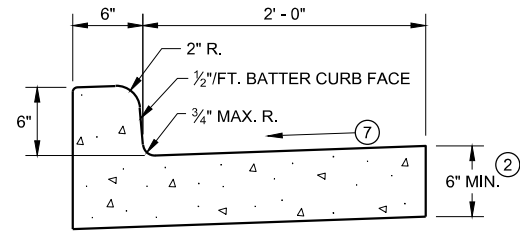
APPROVED
 Sept., 2016 /S/ Rodney Taylor
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 FHWA UNIT SUPERVISOR

6

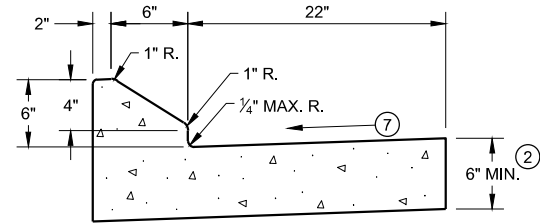
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S.D.D. 8 C 7-2

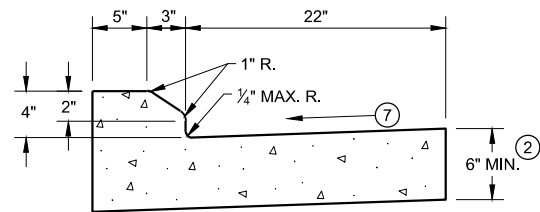
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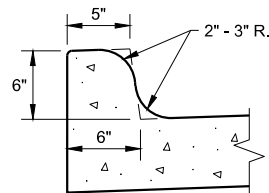
TYPES A^① & D



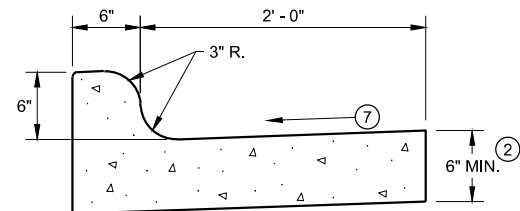
6" SLOPED CURB TYPES G^① & J



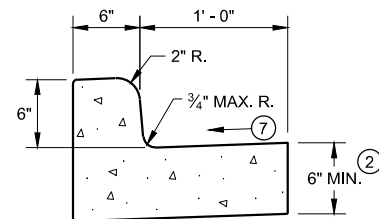
4" SLOPED CURB TYPES G^① & J



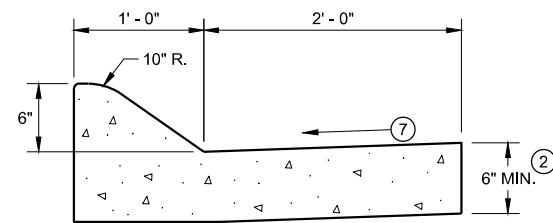
TYPES K^① & L
(OPTIONAL CURB SHAPE)



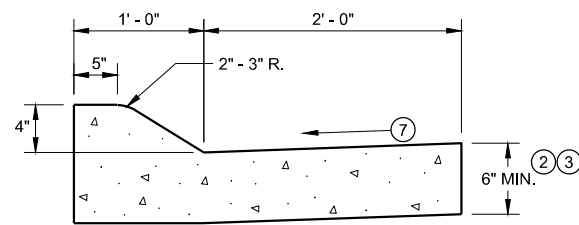
TYPES K^① & L
CONCRETE CURB AND GUTTER 30"



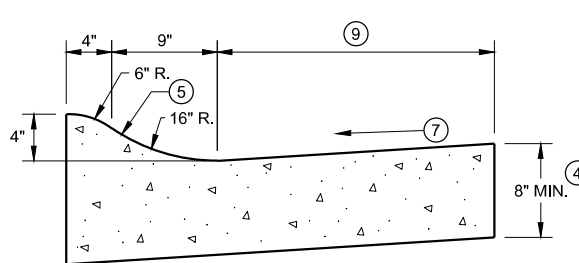
TYPES A^① & D
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A^① & D

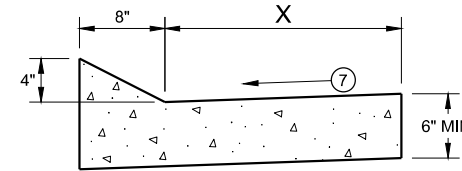


4" SLOPED CURB TYPES A^① & D
CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R^① & T

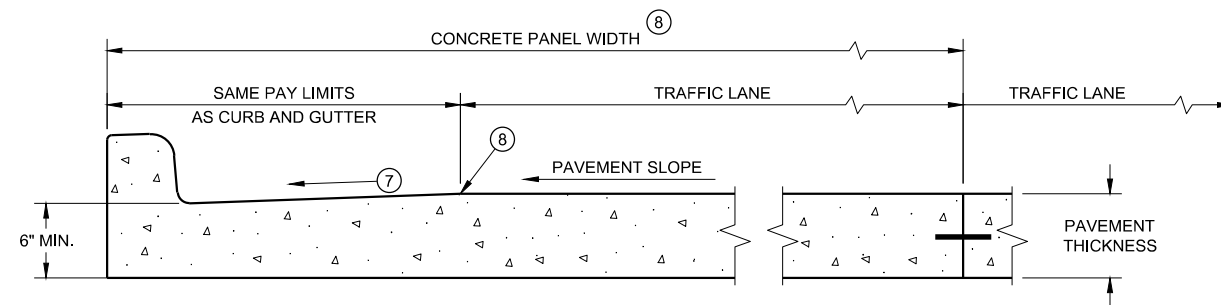
TBT & TBTT	X
30"	22"
36"	28"



TYPES TBT & TBTT^①
CONCRETE CURB AND GUTTER

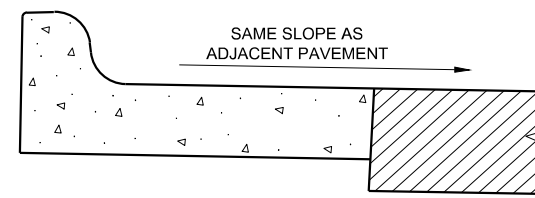
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT* WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER^⑥
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
- ⑨ CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

6

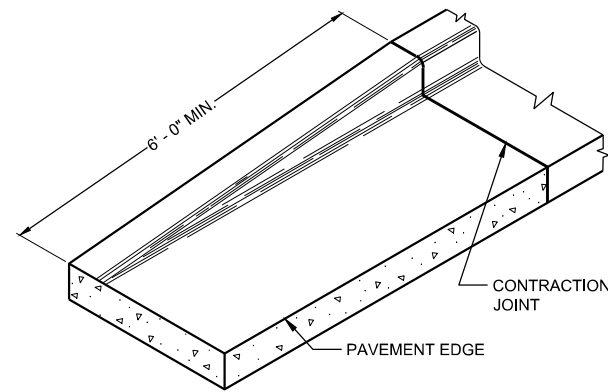
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SDD08D01 - 23a

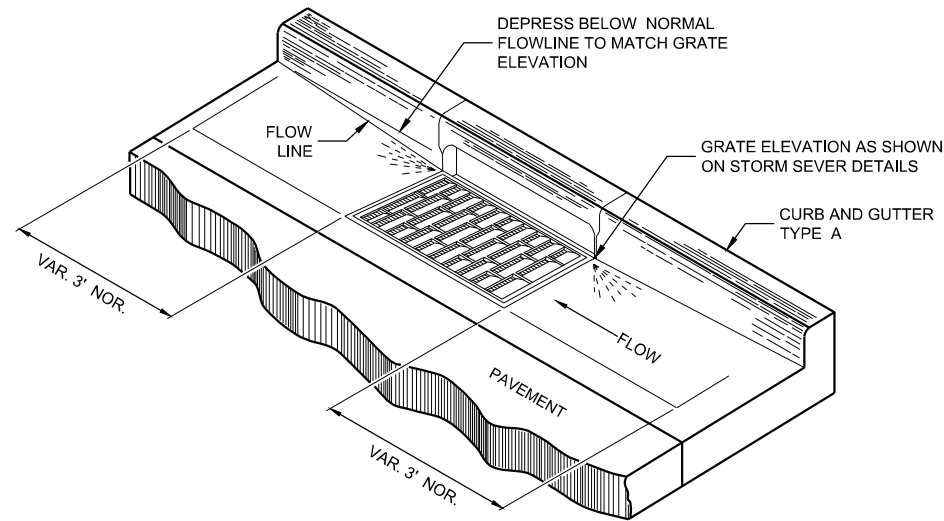
SDD08D01 - 23a

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

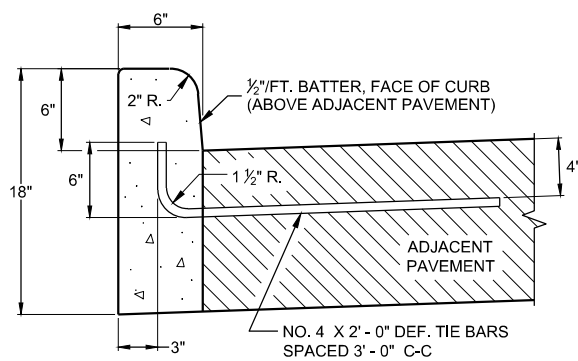
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

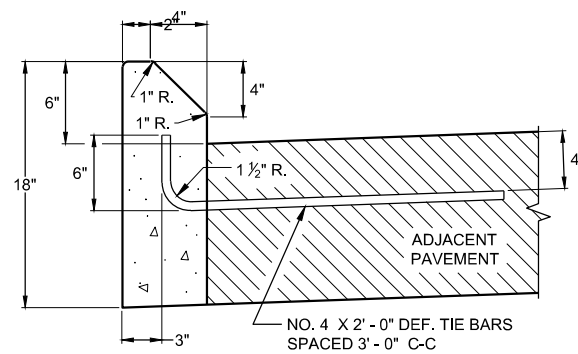
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑩ REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.
- ⑪ PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

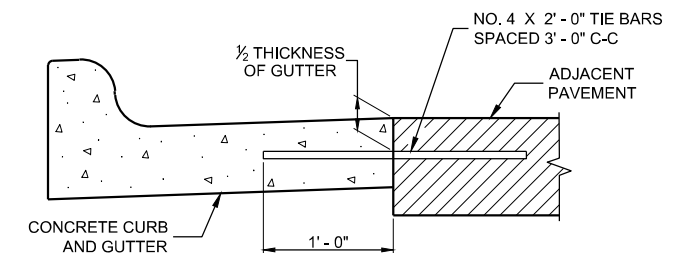


TYPES A^① & D

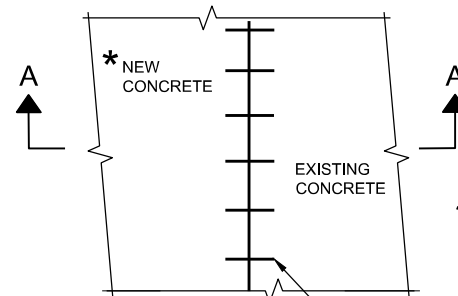


TYPES G^① & J

CONCRETE CURB

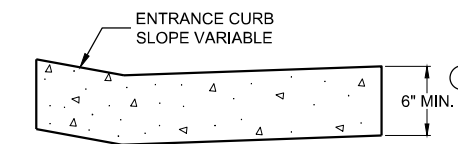


TYPICAL TIE BAR LOCATION^①



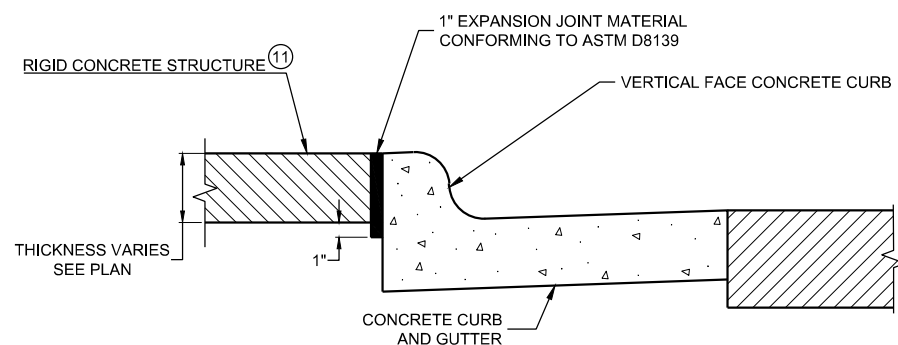
PLAN VIEW

* NEW CURB AND GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

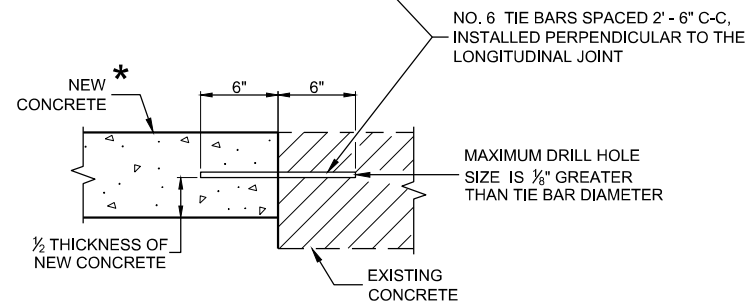


DRIVEWAY ENTRANCE CURB^⑩

(WHEN DIRECTED BY THE ENGINEER)



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE^⑪



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE May 2023 /S/ Rodnery Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER

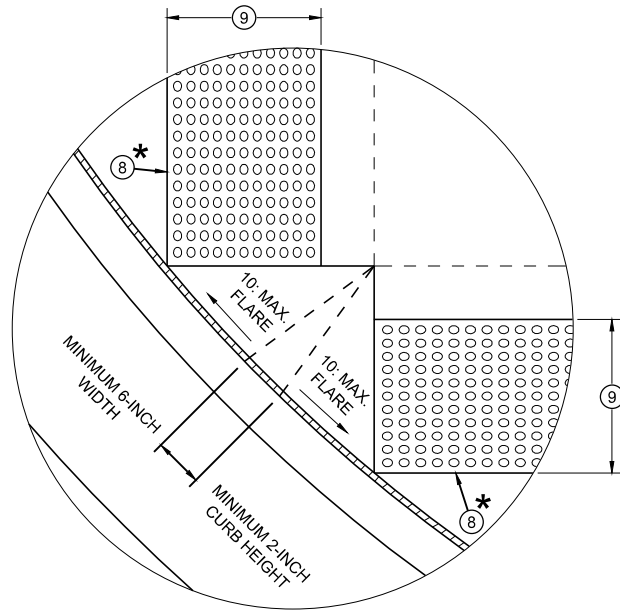
FHWA

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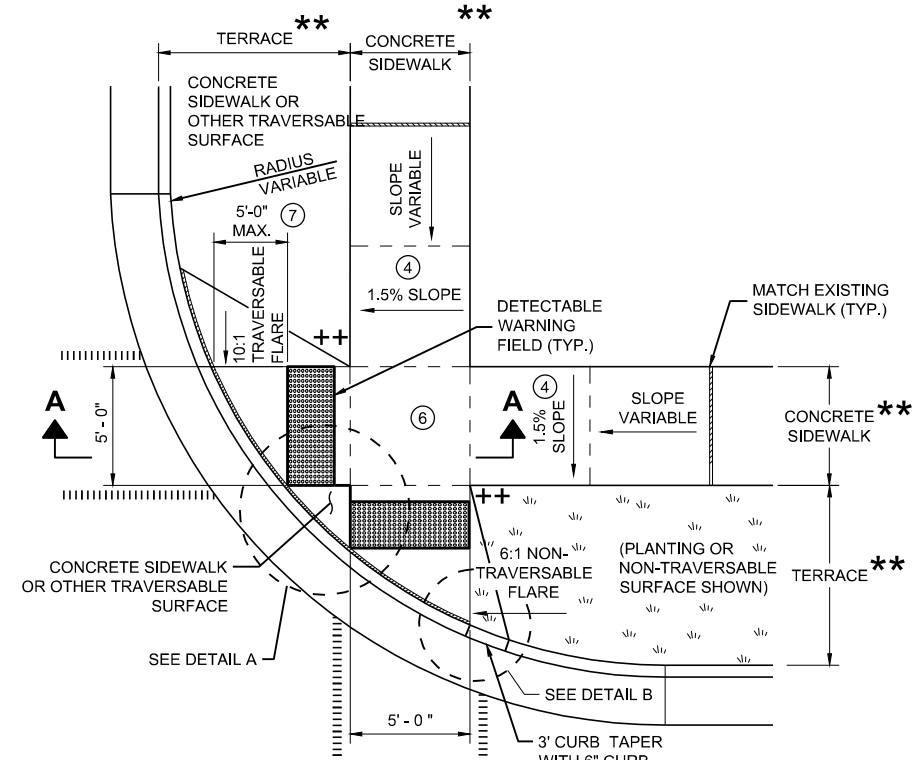
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SDD 08D01 - 23b

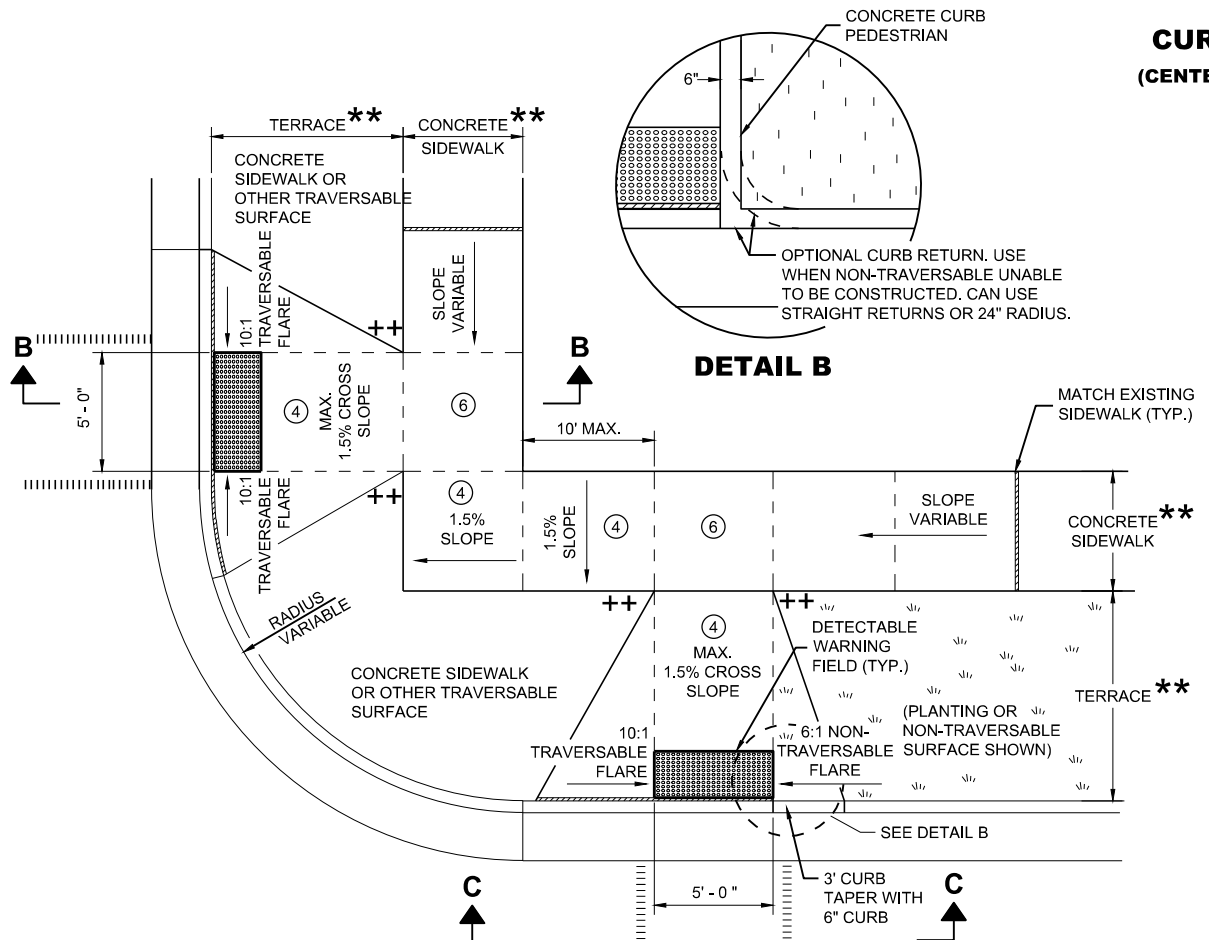
SDD 08D01 - 23b



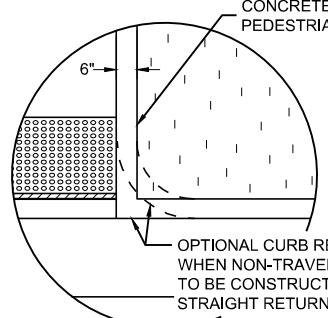
DETAIL A



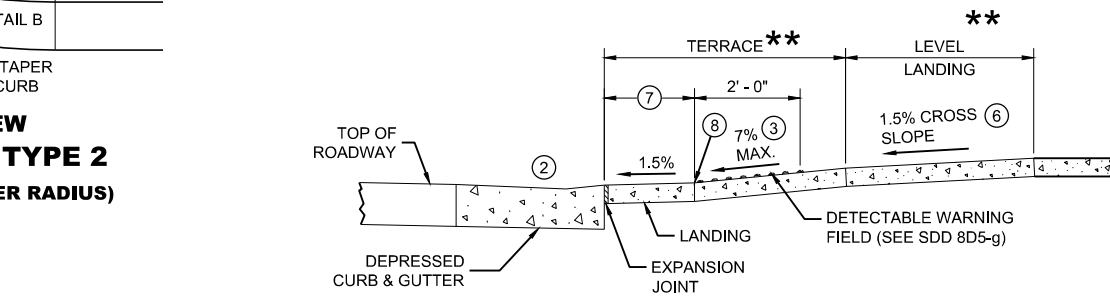
**PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)**



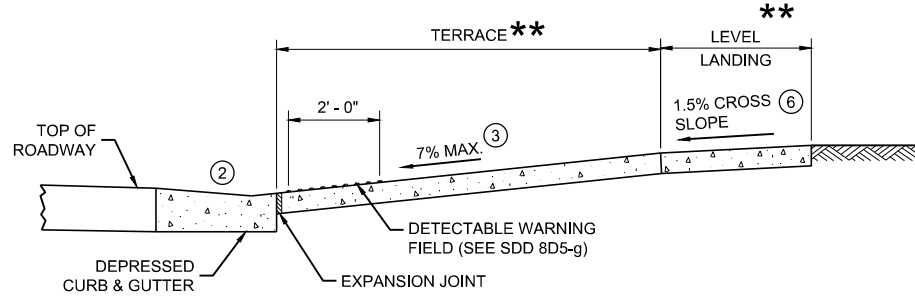
**PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)**



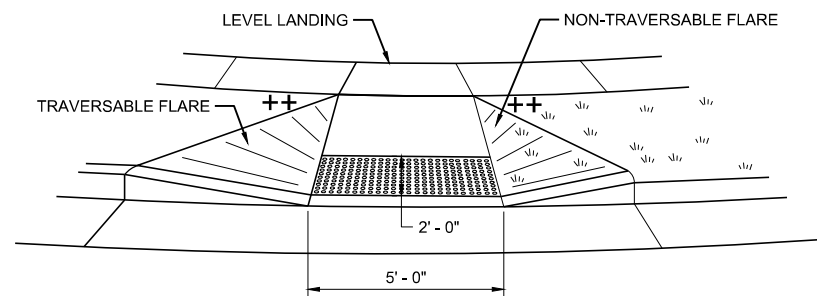
DETAIL B



SECTION A - A FOR TYPE 2



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

GENERAL NOTES

- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4 - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- ③ AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.
- ④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ⑥ PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.
- ⑦ WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- ⑧ PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- ⑨ WHEN DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

- * MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK
- ** WIDTH SHOWN ELSEWHERE IN THE PLANS
- ++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

LEGEND

- 1/2" EXPANSION JOINT SIDEWALK
- - - CONTRACTION JOINT SIDEWALK
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)

**CURB RAMPS
TYPE 2 AND 3**

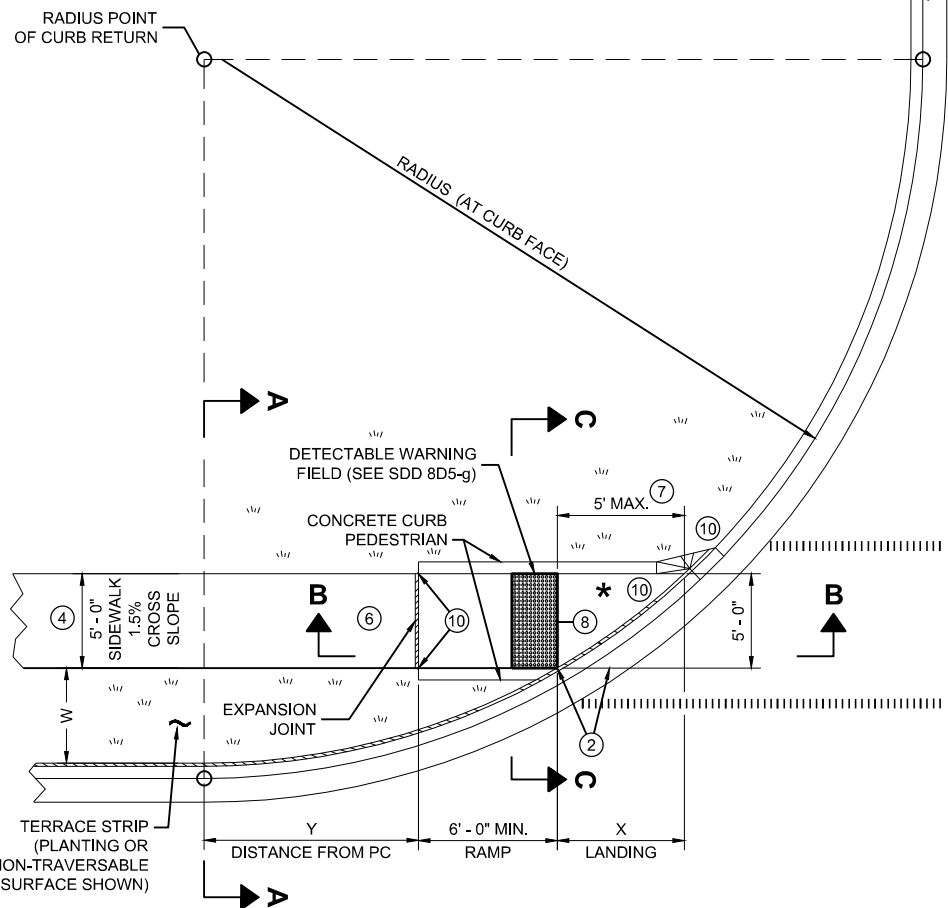
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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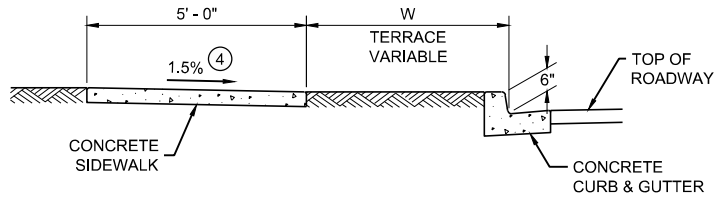
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SDD 08D05-21b

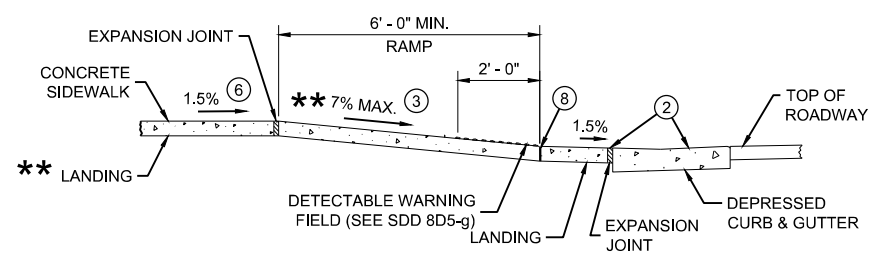
SDD 08D05-21b



PLAN VIEW CURB RAMP TYPE 4B



SECTION A - A FOR TYPE 4B

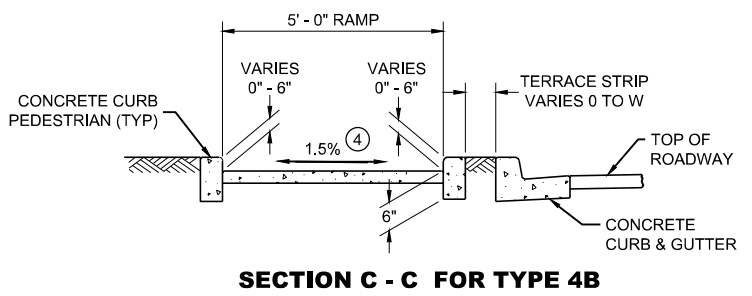


SECTION B - B FOR TYPE 4B AND TYPE 4B1

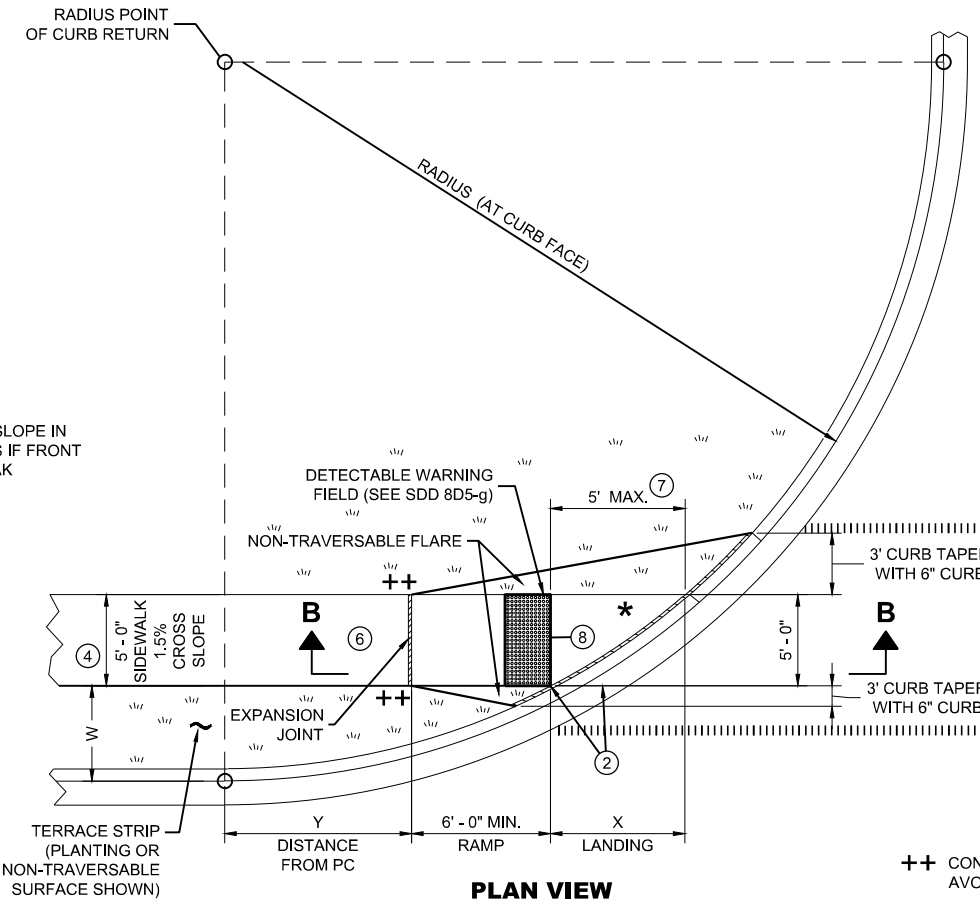
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10 1/4"	0'-5"	2'-1"	1'-4 1/2"	1'-5"	2'-1"	0'-10"	2'-7 1/2"	0'-3 1/4"	3'-0 1/4"						
15 FEET	4'-6 3/4"	2'-1 3/4"	3'-9"	3'-5 3/4"	3'-1 1/4"	4'-6"	2'-6 3/4"	5'-4 1/2"	2'-1"	6'-1"	1'-8"	6'-8 1/2"	1'-3 1/4"	7'-2 1/2"	0'-10 3/4"	7'-7 1/2"
20 FEET			4'-11 1/2"	5'-1 3/4"	4'-3 1/4"	6'-5 1/2"	3'-8 3/4"	7'-7"	3'-3"	8'-6 1/2"	2'-10"	9'-4 1/2"	2'-5 1/2"	10'-1 1/4"	2'-1 1/4"	10'-9"
30 FEET									4'-10 3/4"	12'-5 3/4"	4'-5 1/2"	13'-7 3/4"	4'-0 3/4"	14'-8 1/2"	3'-8 1/2"	15'-8 1/4"
40 FEET															4'-10 3/4"	19'-8 1/4"

INTERMEDIATE RADII CAN BE INTERPOLATED
 DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
 DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

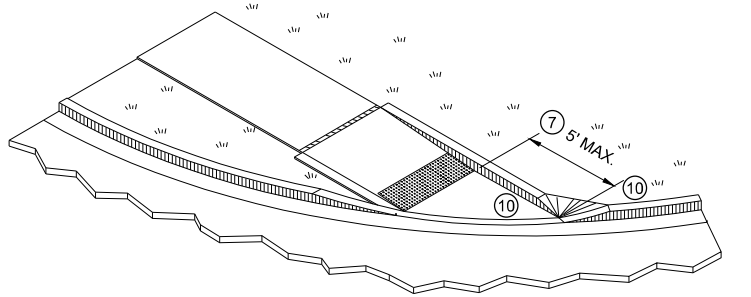


SECTION C - C FOR TYPE 4B

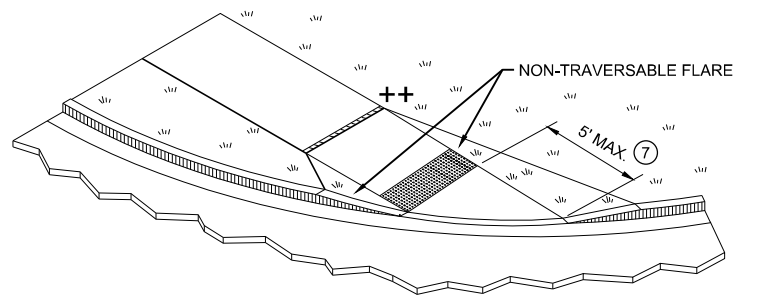


PLAN VIEW CURB RAMP TYPE 4B1

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

- 1/2" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
- (2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/8" INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- (3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.
- (7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- (8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

6

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SDD 08D05-21d

SDD 08D05-21d



SDD 08D15-b Edgedrain and Base Aggregate Open Graded

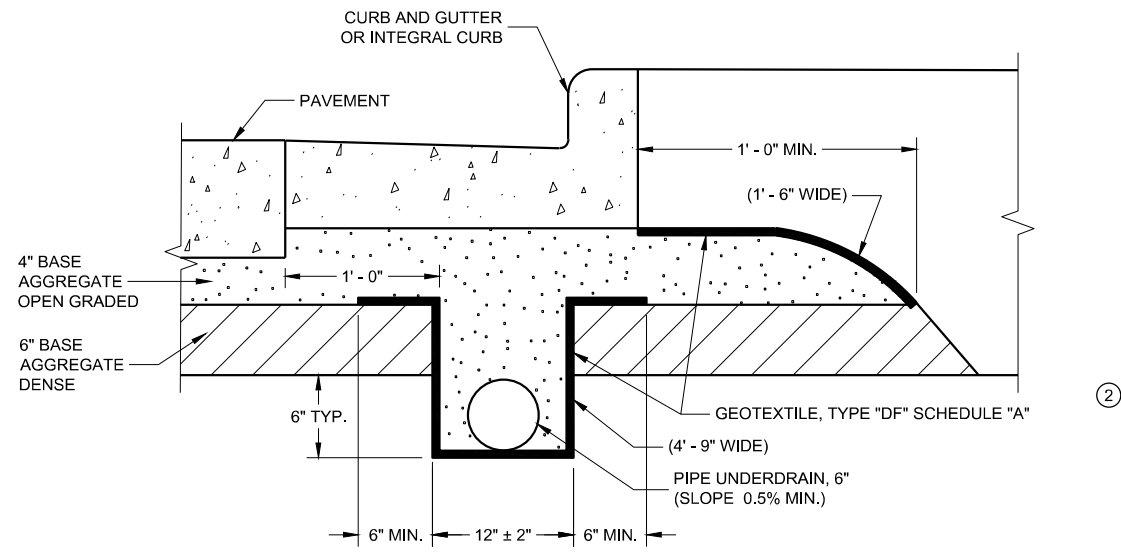
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

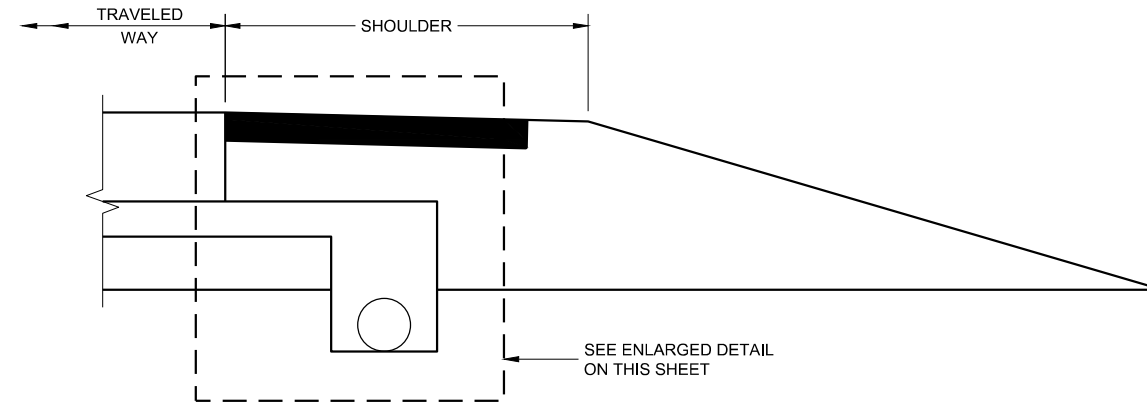
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

① FOLD OVER EXCESS GEOTEXTILE AT THIS LOCATION.

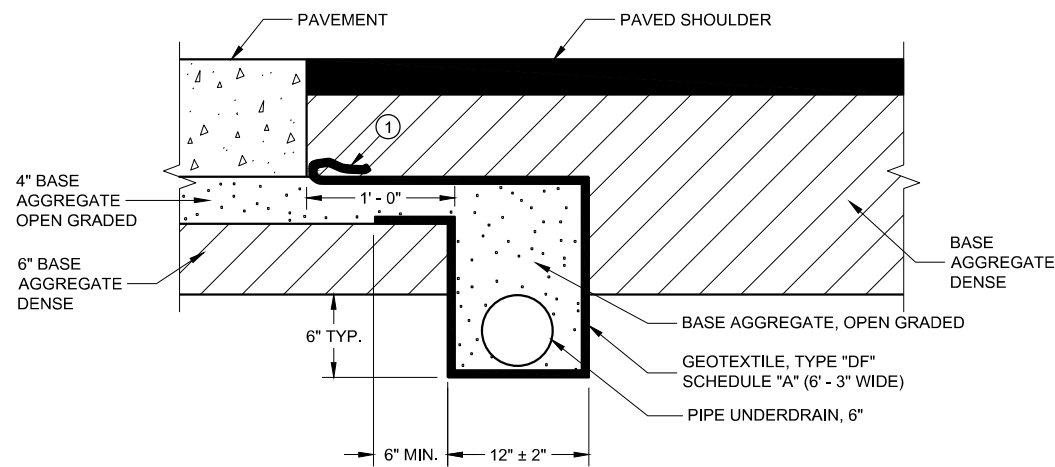
② TOTAL GEOTEXTILE WIDTH IS 6'-3" FOR PAYMENT.



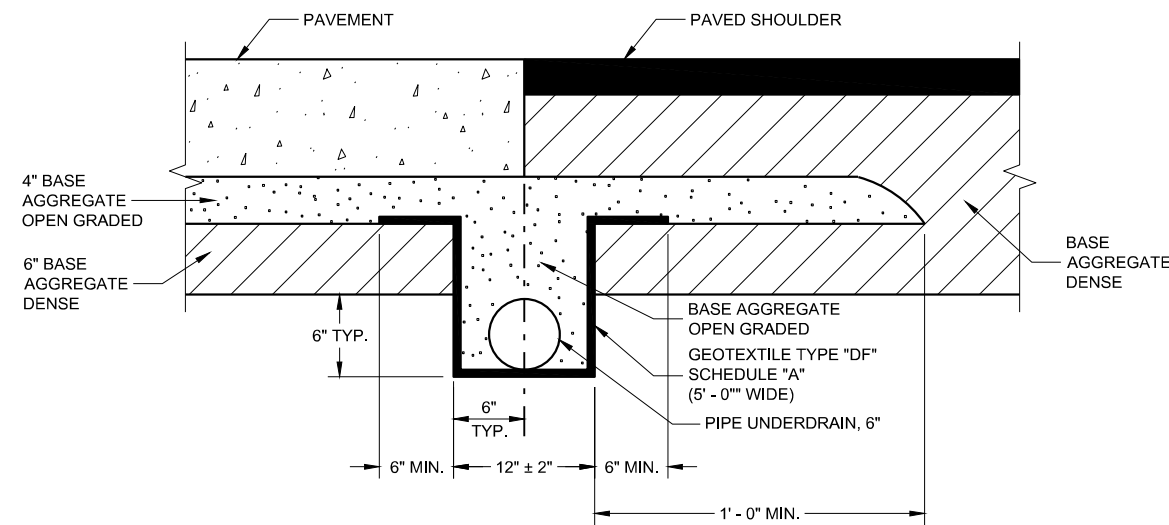
EDGEDRAIN IN URBAN ROADWAY



RURAL CROSS SECTION



POST PAVING INSTALLATION (QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

**EGEDRAIN AND BASE
AGGREGATE OPEN GRADED**

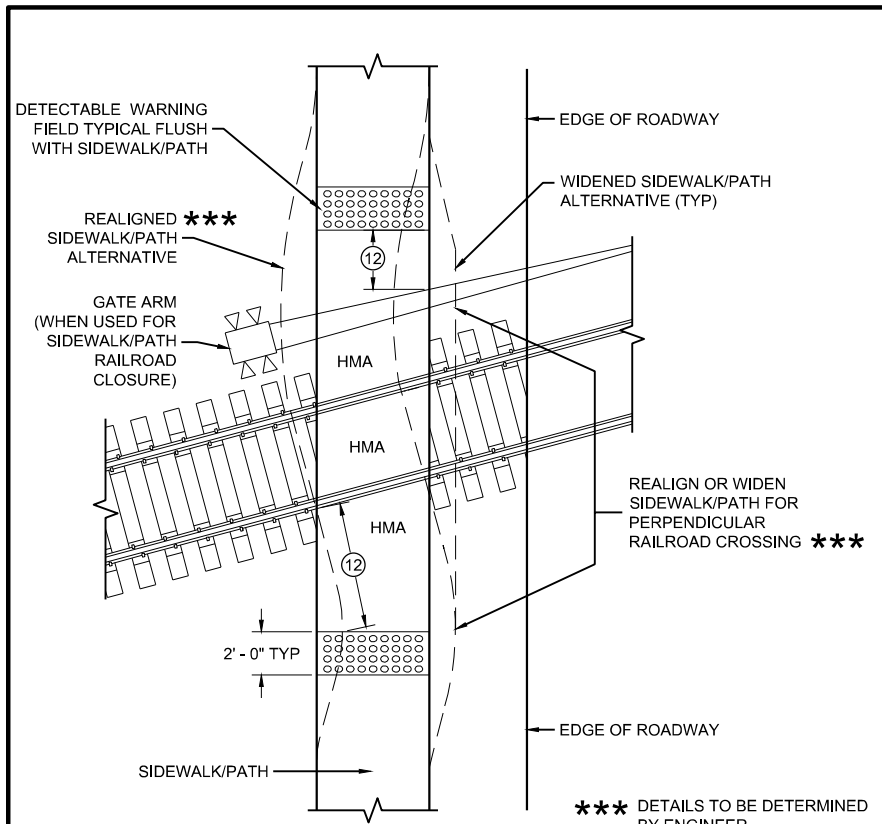
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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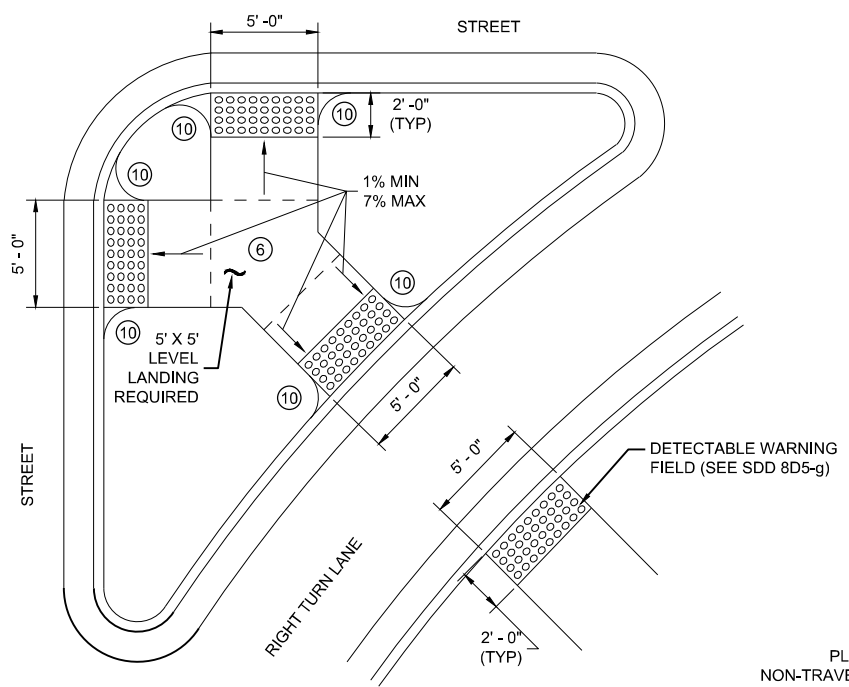
SDD 08D15 - 05b

SDD 08D15 - 05b



CURB RAMP TYPE 8

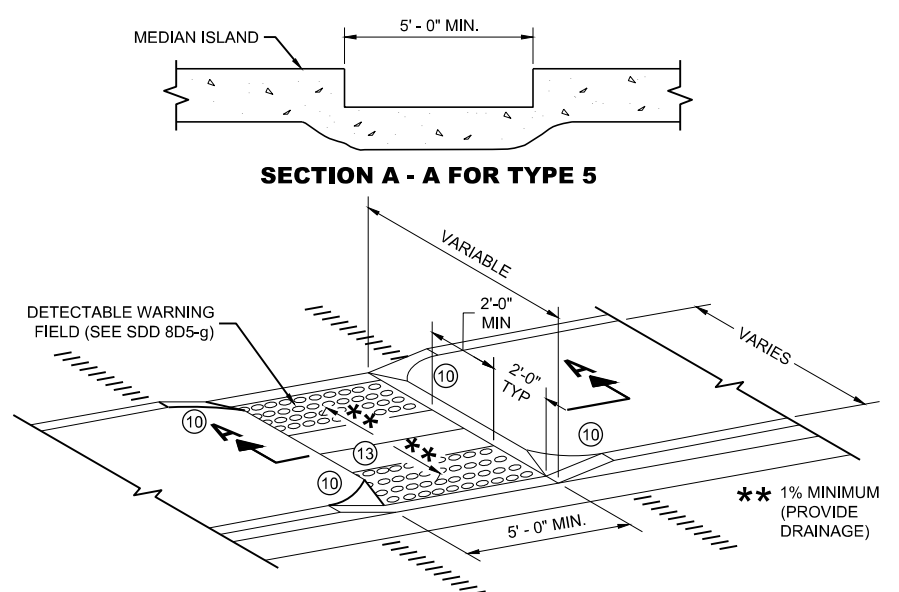
DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



CURB RAMP TYPE 6

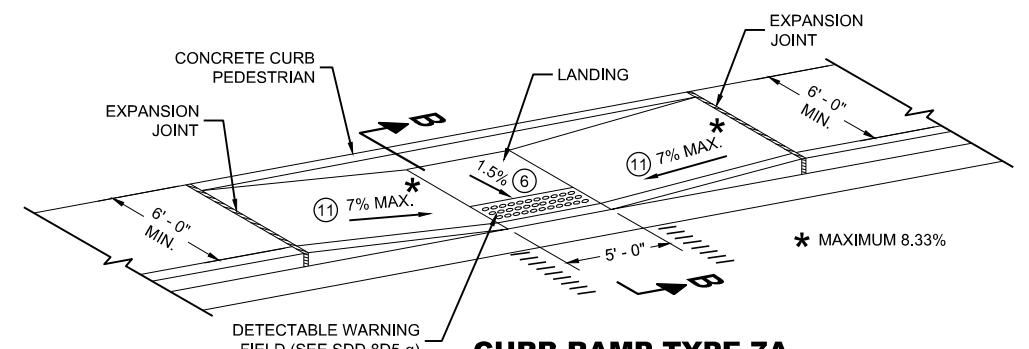
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES ② AND ③ FOR ALL ISLAND CURB RAMPS

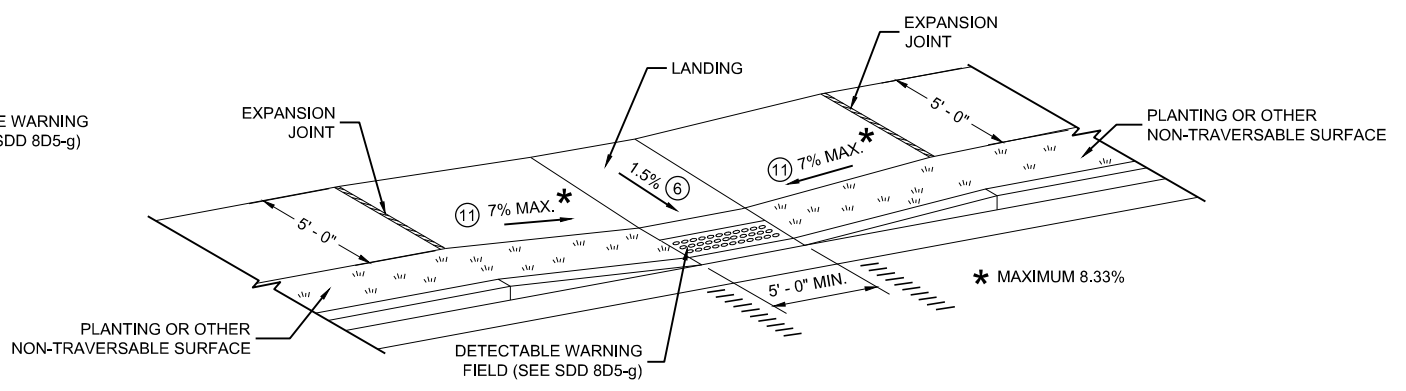


SECTION A - A FOR TYPE 5

**CURB RAMP TYPE 5
MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING**



**CURB RAMP TYPE 7A
FOR INTERSECTIONS AND
MID BLOCK CROSSINGS**



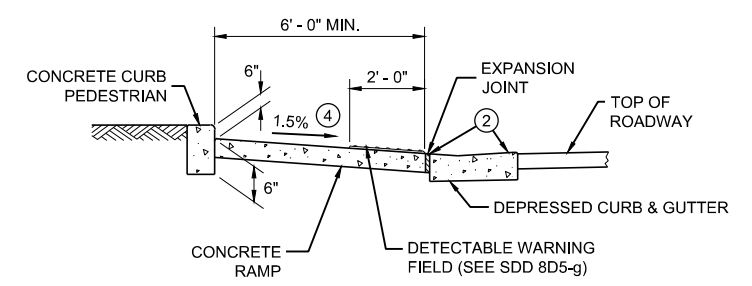
**CURB RAMP TYPE 7B
FOR INTERSECTIONS AND
MID BLOCK CROSSINGS**

GENERAL NOTES

- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/8" INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- ③ AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- ④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ⑥ PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.
- ⑩ INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.
- ⑪ SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.
- ⑫ THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.
- ⑬ DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

- 1/2" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



SECTION B - B FOR TYPE 7A

6

6

SDD 08D05-21e

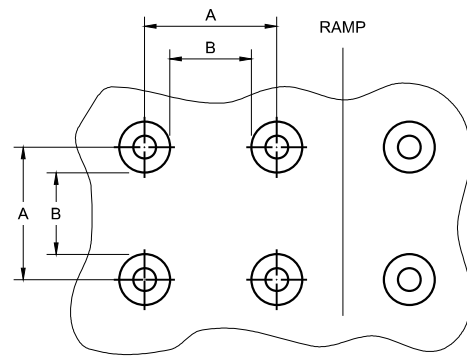
SDD 08D05-21e

**CURB RAMPS
TYPE 5, 6, 7A, 7B & 8**

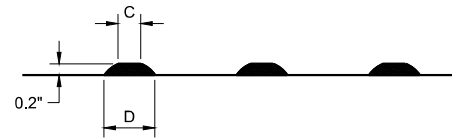
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

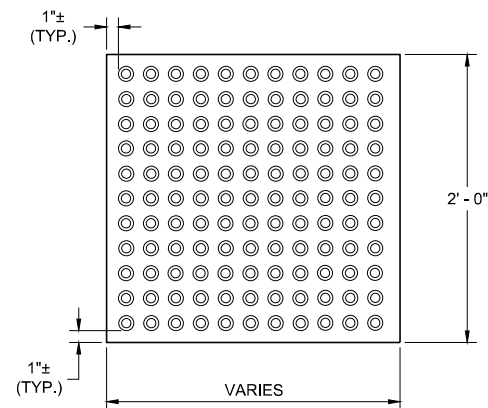


PLAN VIEW

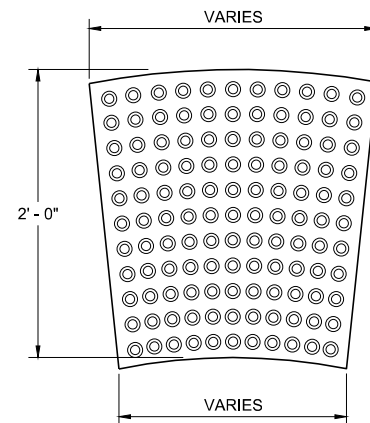


ELEVATION VIEW

**TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL**

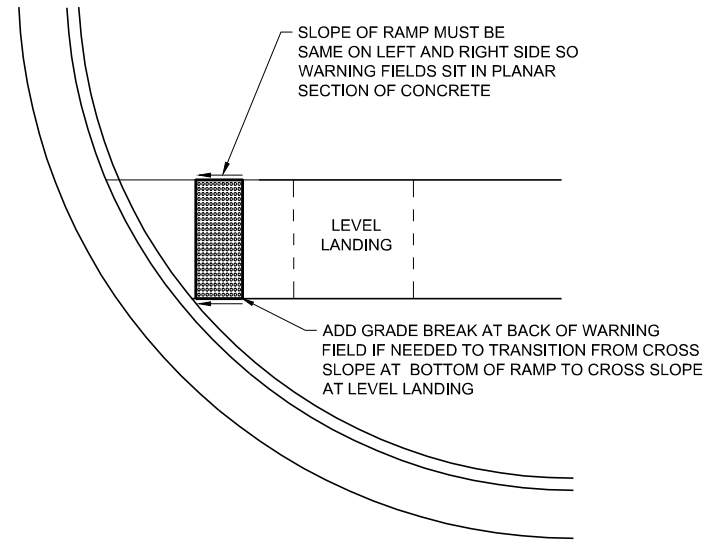


**RECTANGULAR
PLATES**



**RADIAL
PLATES**

**PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)**

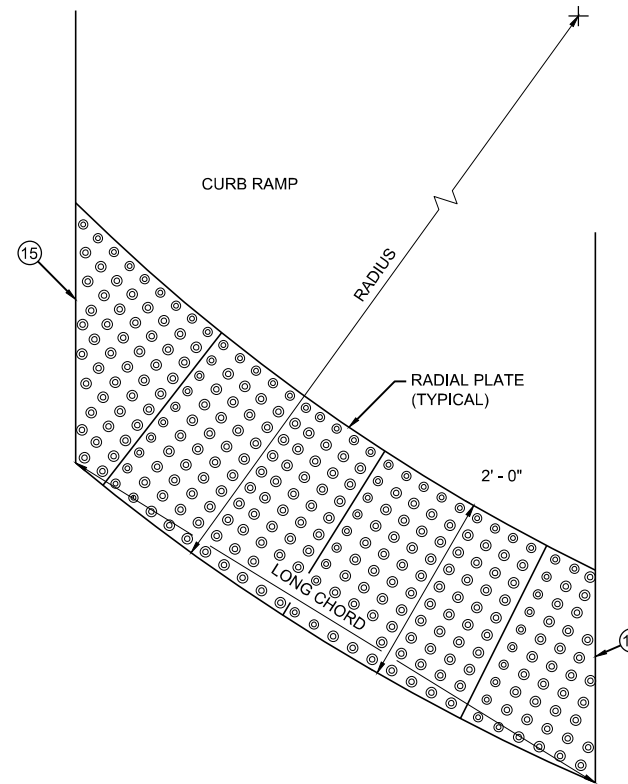


**DETECTABLE WARNING FIELD
PLANAR INSTALLATION**

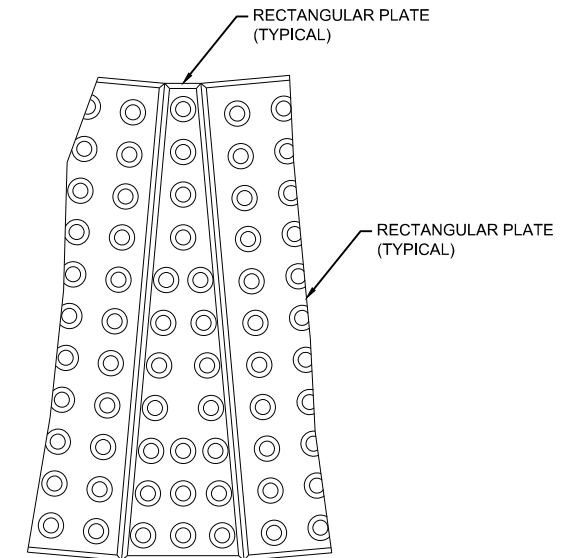
GENERAL NOTES

- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.
- PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.
- FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.
- DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.
- FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.
- REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.
- DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

15 FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



**PLAN VIEW
RADIAL DETECTABLE
WARNING FIELD ATTRIBUTES**



**PLAN VIEW
RADIAL WEDGE PLATE
CONNECTION DETAIL**

**CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 /S/ Rodney Taylor
DATE ROADWAY STANDARDS DEVELOPMENT
FHWA UNIT SUPERVISOR

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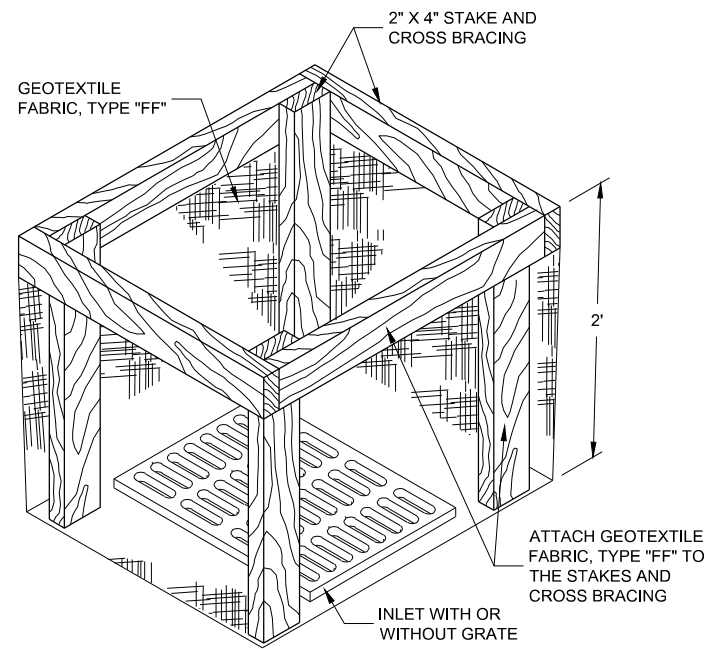
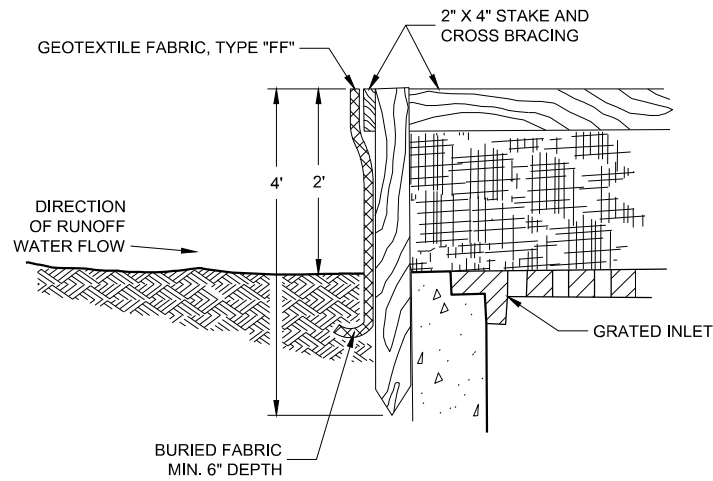
SDD 08D05-219

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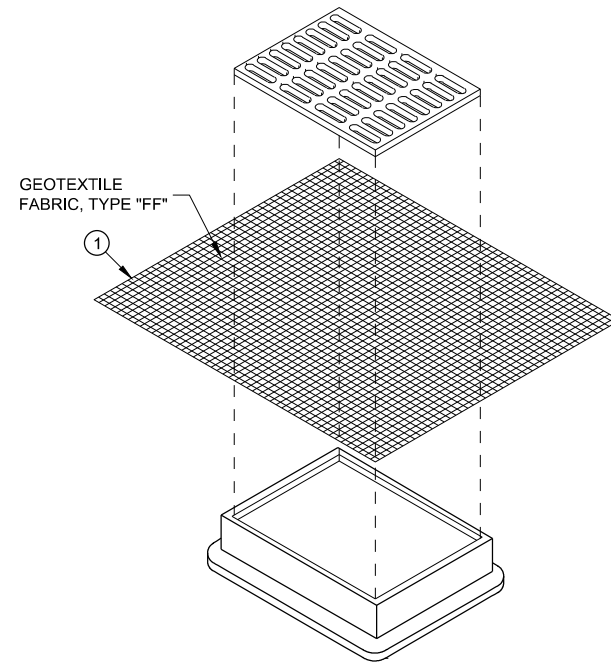
SDD 08D05-219



SDD 08E10 Inlet Protection, Types A, B, C and D

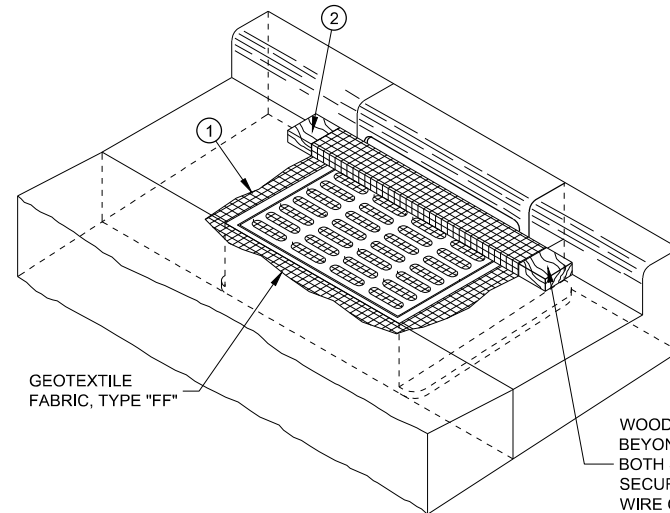


INLET PROTECTION, TYPE "A"



INLET PROTECTION, TYPE "B" (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE "C" (WITH CURB BOX)

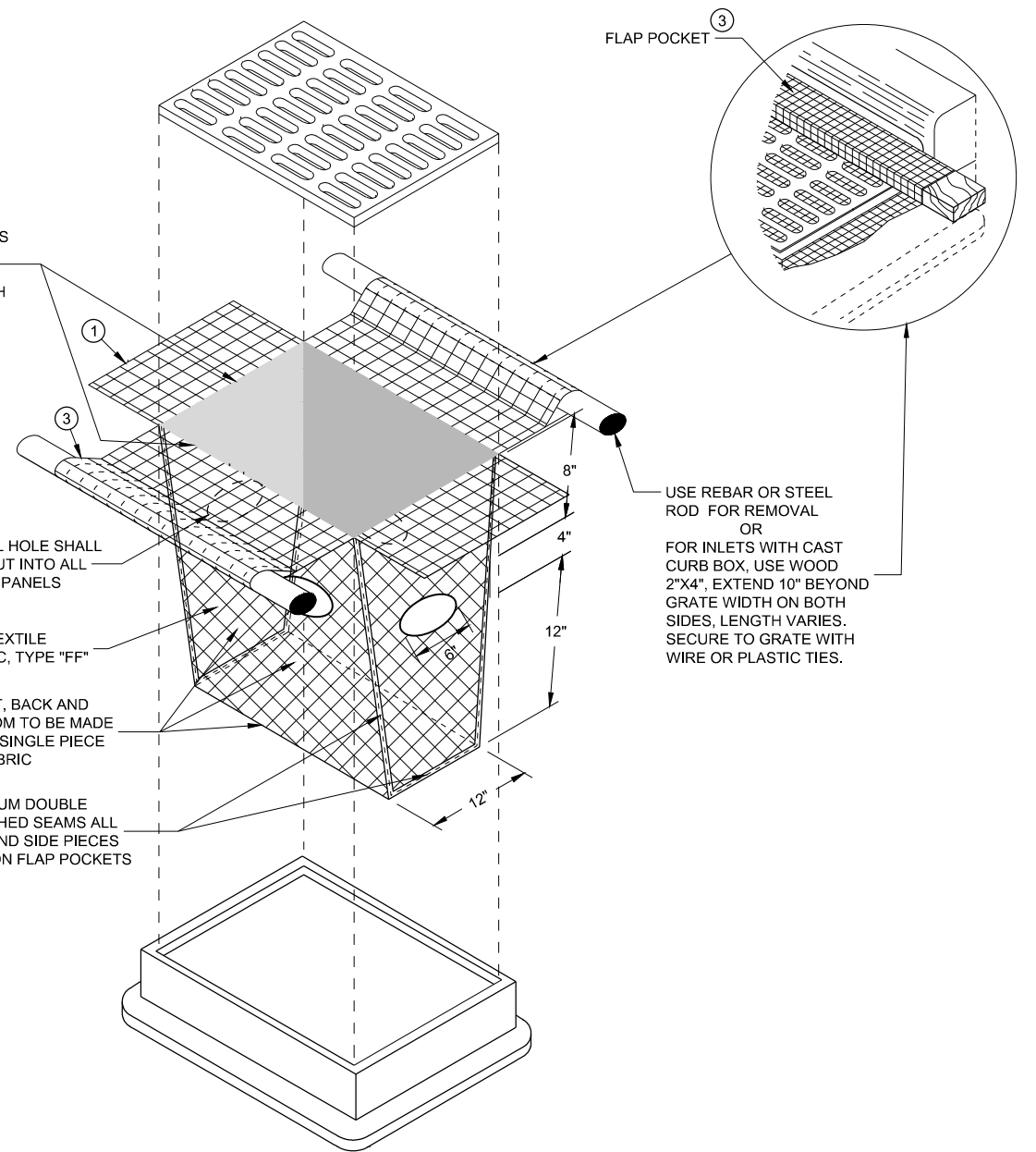
INLET SPECIFICATIONS AS PER THE PLAN. DIMENSION LENGTH AND WIDTH TO MATCH

4" x 6" OVAL HOLE SHALL BE HEAT CUT INTO ALL FOUR SIDE PANELS

GEOTEXTILE FABRIC, TYPE "FF"

FRONT, BACK AND BOTTOM TO BE MADE FROM SINGLE PIECE OF FABRIC

MINIMUM DOUBLE STITCHED SEAMS ALL AROUND SIDE PIECES AND ON FLAP POCKETS



INLET PROTECTION, TYPE "D"

(CAN BE INSTALLED IN ANY INLET WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPES B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

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SDD 08E10 - 02

SDD 08E10 - 02

INLET PROTECTION TYPES A, B, C AND D	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/16/02 DATE	/S/ Beth Cannestra ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



SDD 08E14 Tracking Pad

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

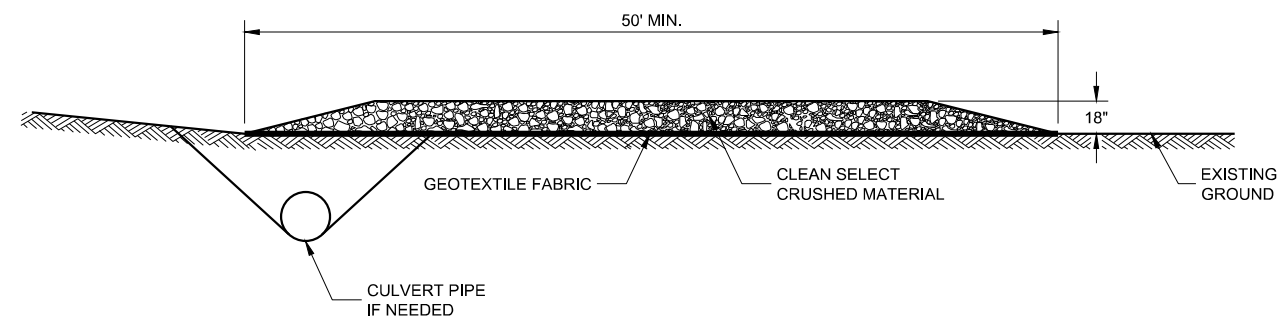
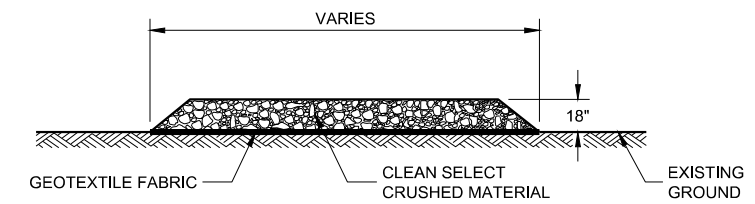
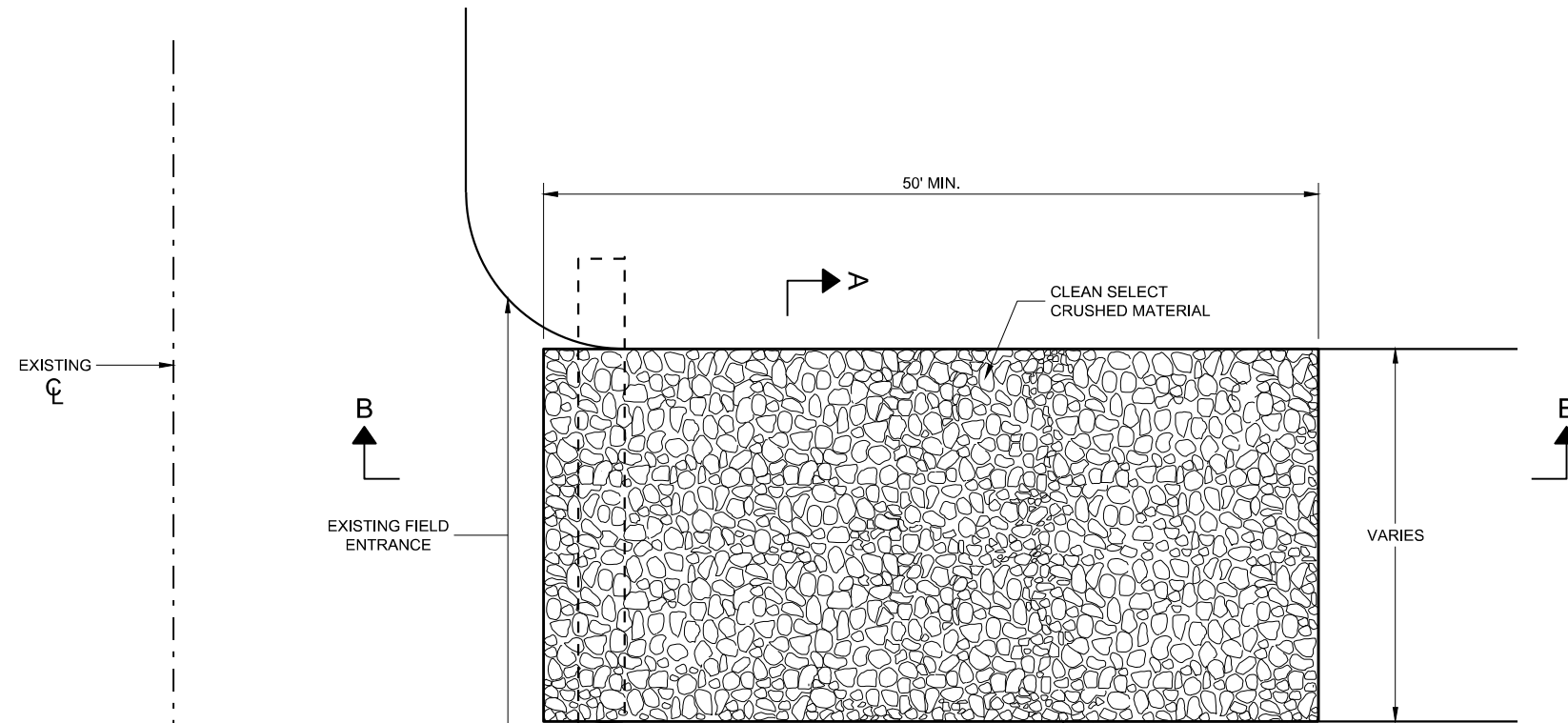
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



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SDD 08E14 - 01

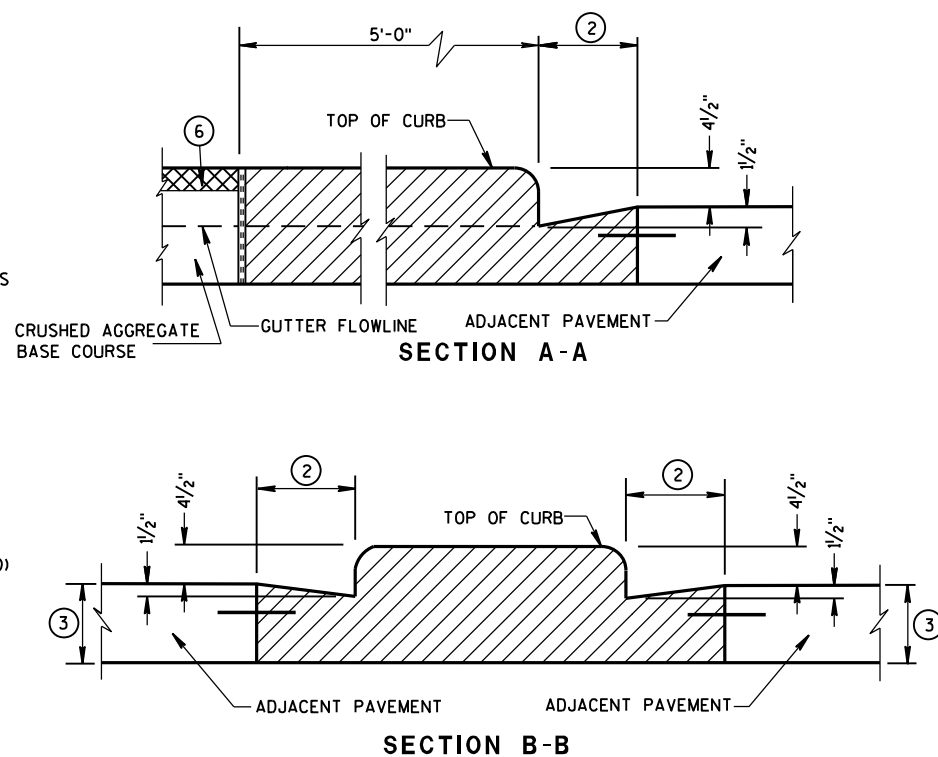
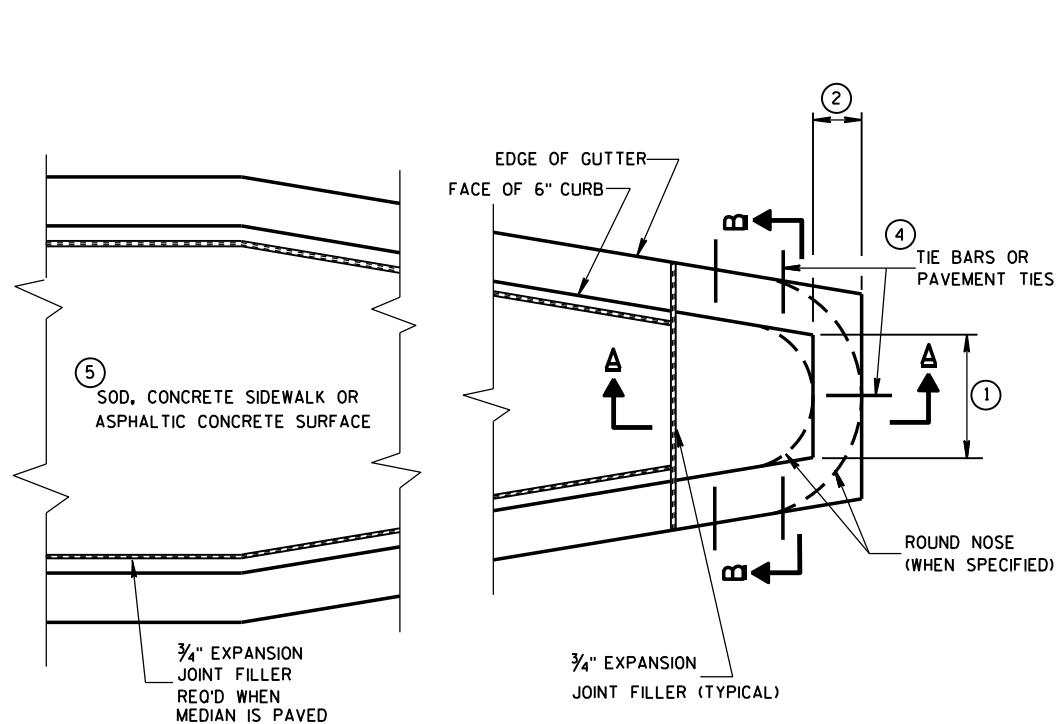
SDD 08E14 - 01

TRACKING PAD

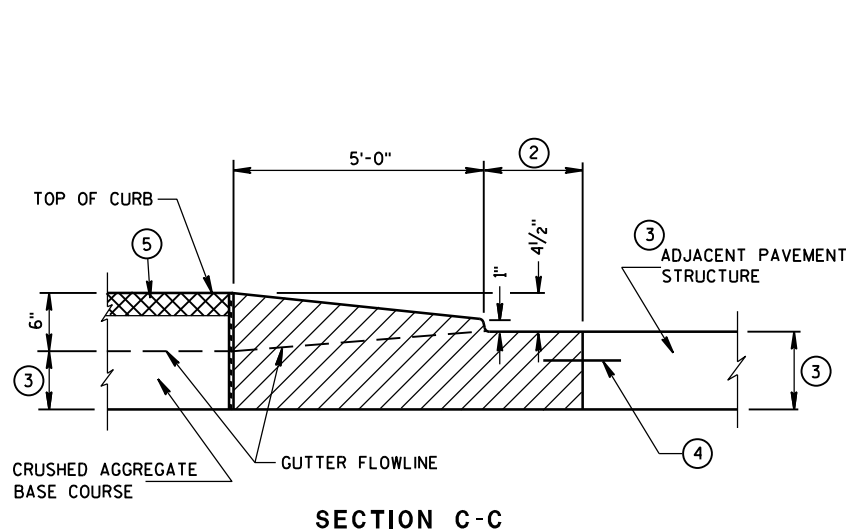
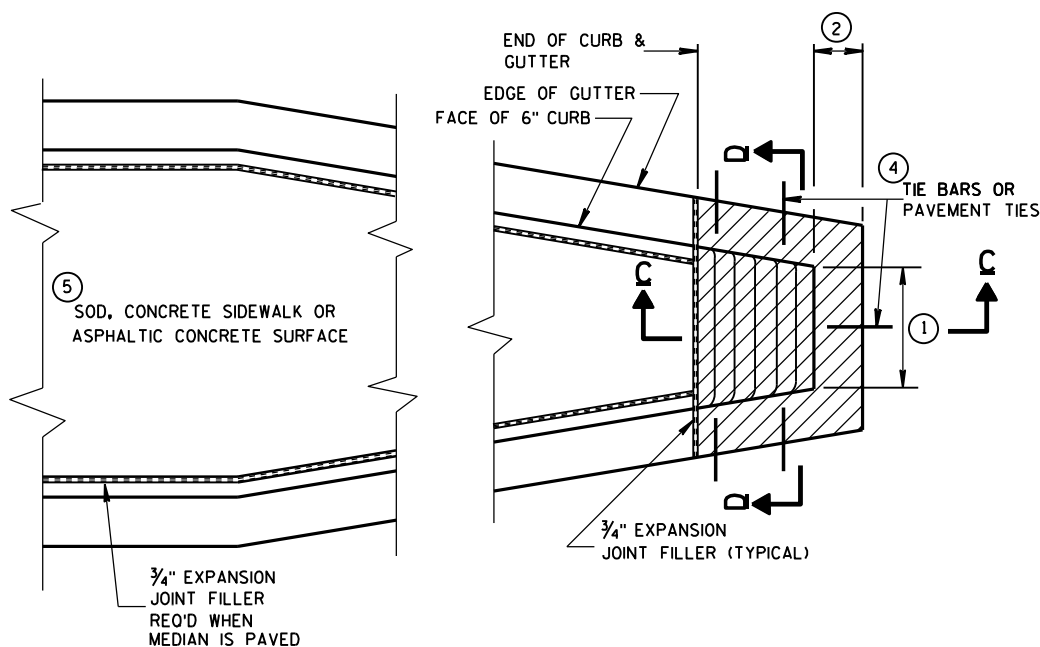
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	/s/ Jerry H. Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT ENGINEER
3/24/2011	

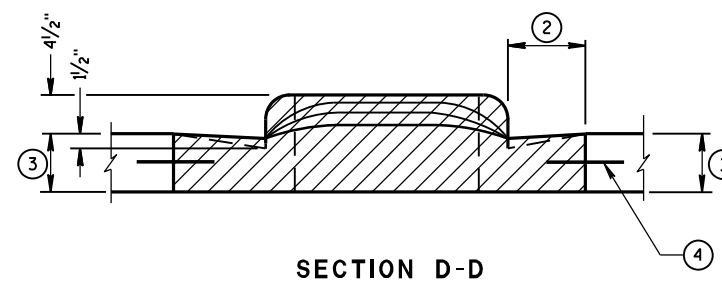
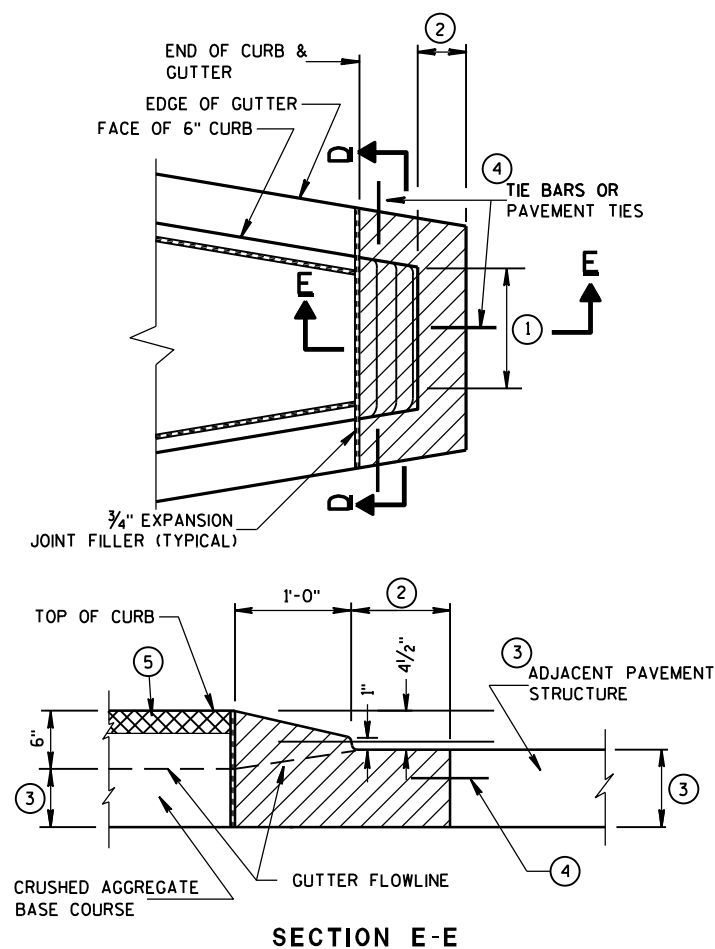
FHWA



CONCRETE MEDIAN BLUNT NOSE DETAIL



CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN SLOPED NOSE TYPE 2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).
- ② WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.
- ③ DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:
 - (1) NEW OR EXISTING CONCRETE PAVEMENT.
 - (2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.
 - (3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.
- ④ TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.
- PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.
- ⑤ SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

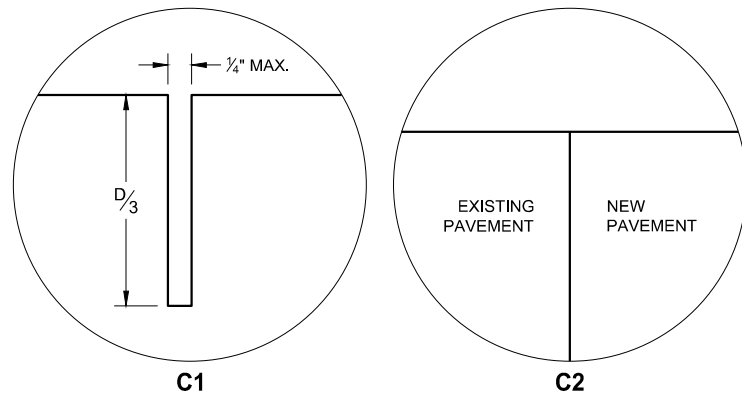
CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

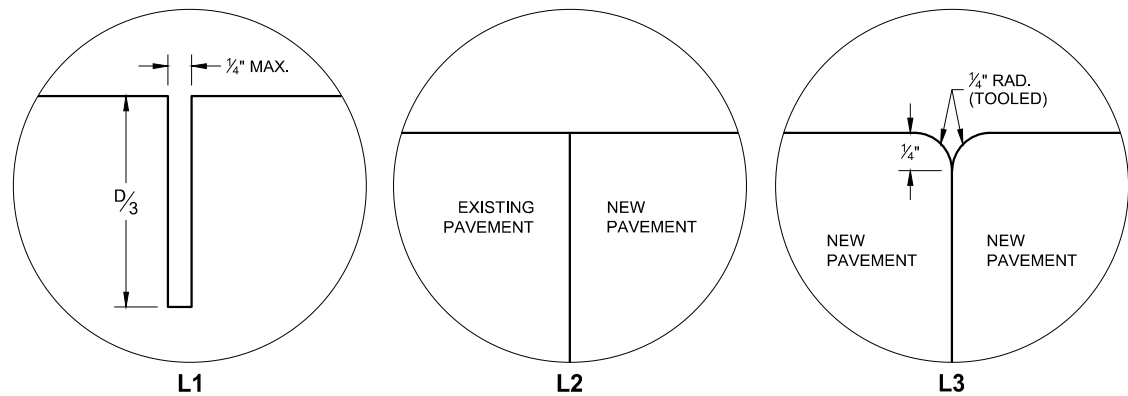
APPROVED
6-8-2006 DATE /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



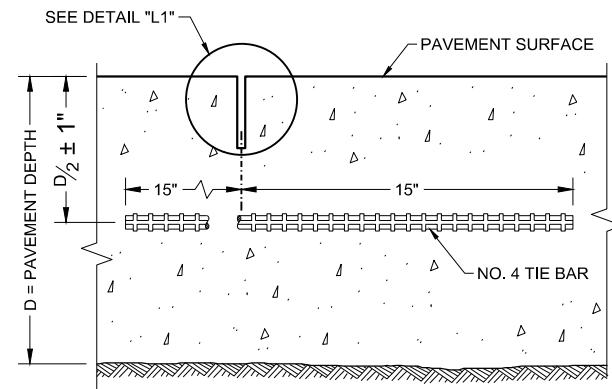
SDD 13C14-b Base Patching Concrete



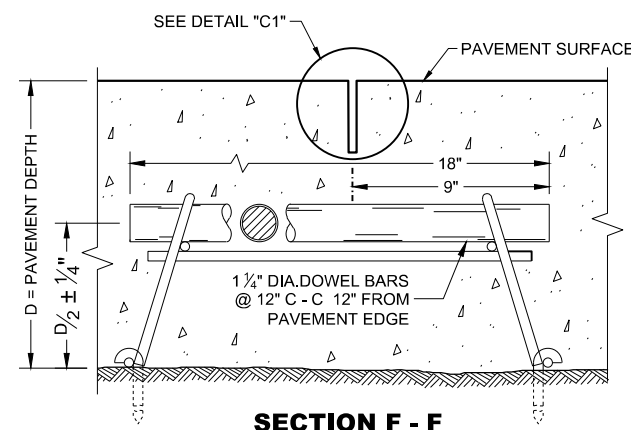
TRANSVERSE JOINTS



LONGITUDINAL JOINTS



**SECTION C - C
SAWED LONGITUDINAL JOINT**



**SECTION F - F
CONTRACTION JOINT**

GENERAL NOTES

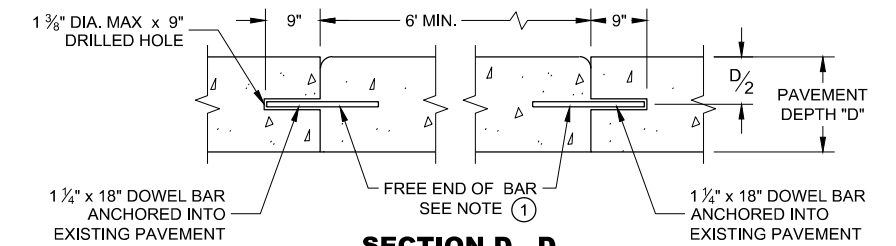
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NON-DOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

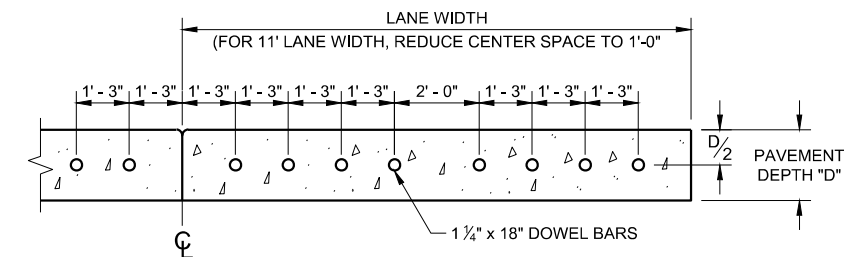
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

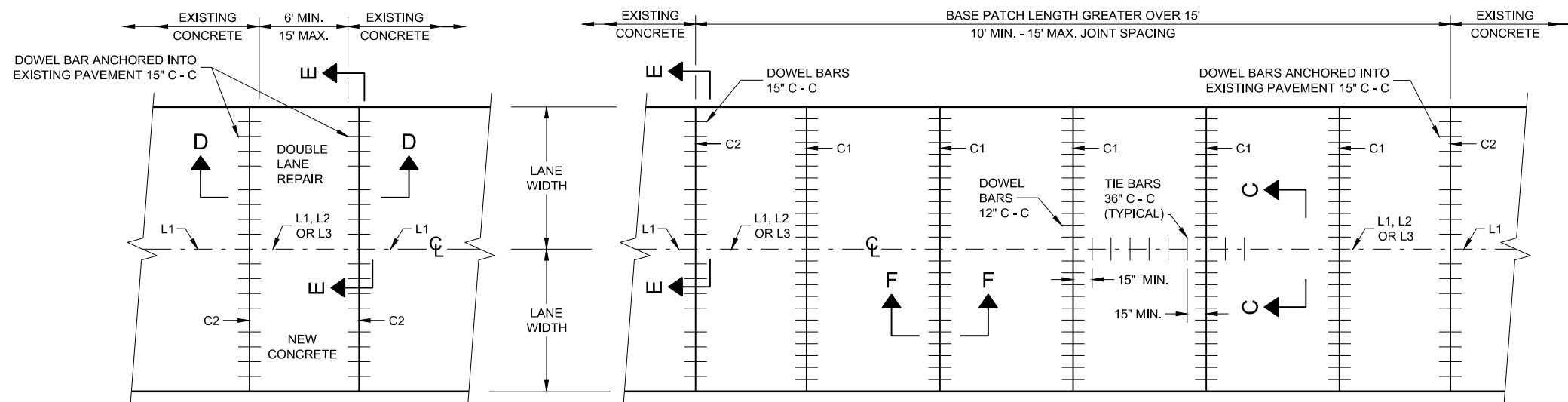
① APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



SECTION D - D



**SECTION E - E
SPACING OF DOWEL BARS
ANCHORED INTO EXISTING PAVEMENT**



**PLAN VIEW
MULTILANE CONCRETE BASE PATCH
15' MAXIMUM LENGTH**

**PLAN VIEW
MULTILANE CONCRETE BASE PATCH
GREATER THAN 15' IN LENGTH**

BASE PATCHING CONCRETE

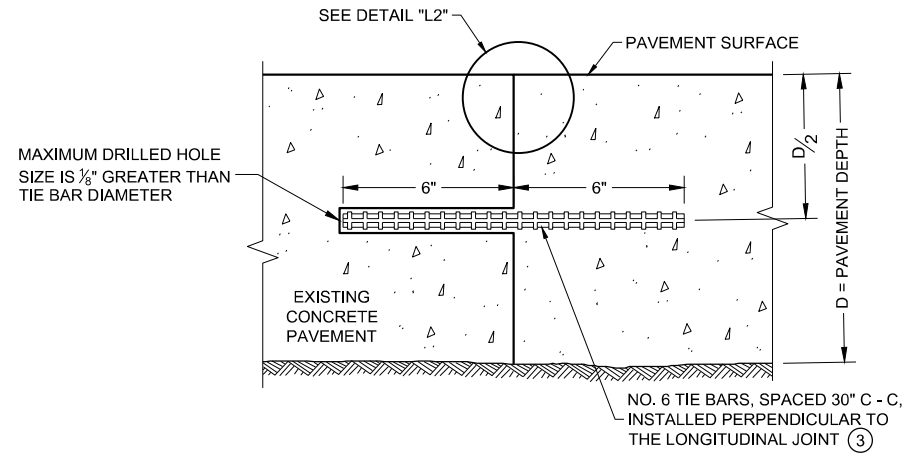
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 13C14 - 07b

SDD 13C14 - 07b

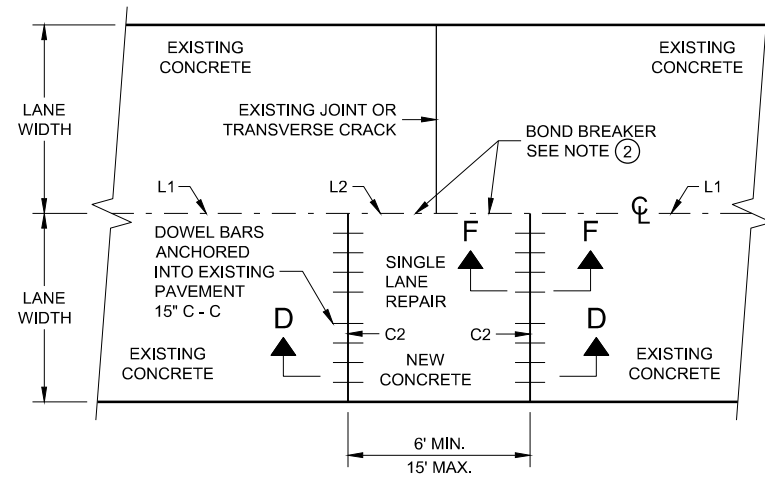


**SECTION G - G
TIE BARS ANCHORED INTO EXISTING PAVEMENT**

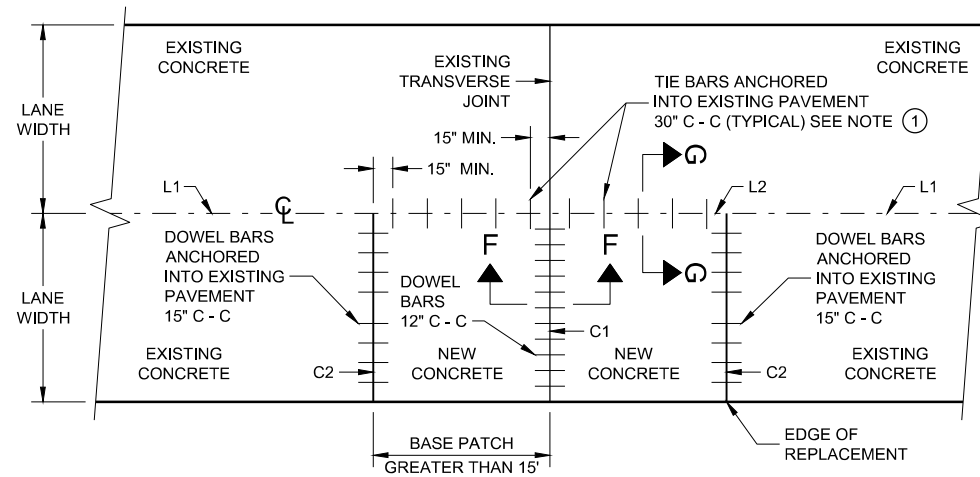
GENERAL NOTES

- ① WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- ② USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
- ③ ANCHOR TIE BARS INTO DRILLED HOES WITH AN EPOXY.

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**PLAN VIEW
SINGLE LANE CONCRETE BASE PATCH
15' MAXIMUM LENGTH**



**PLAN VIEW
SINGLE LANE CONCRETE BASE PATCH
GREATER THAN 15' LENGTH**

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SDD 13C14 - 07C

SDD 13C14 - 07C

BASE PATCHING CONCRETE

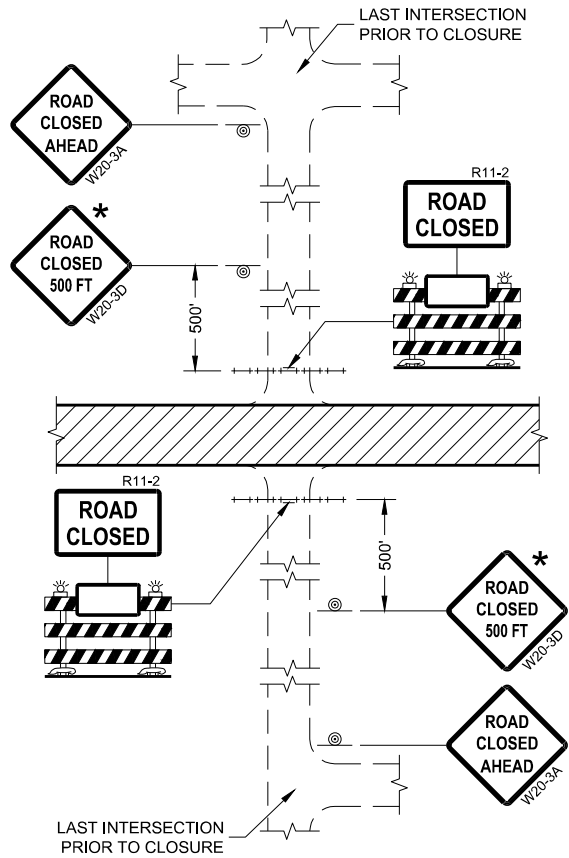
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	/S/ Peter Kemp P.E.
March 2018	DATE
	PAVEMENT SUPERVISOR

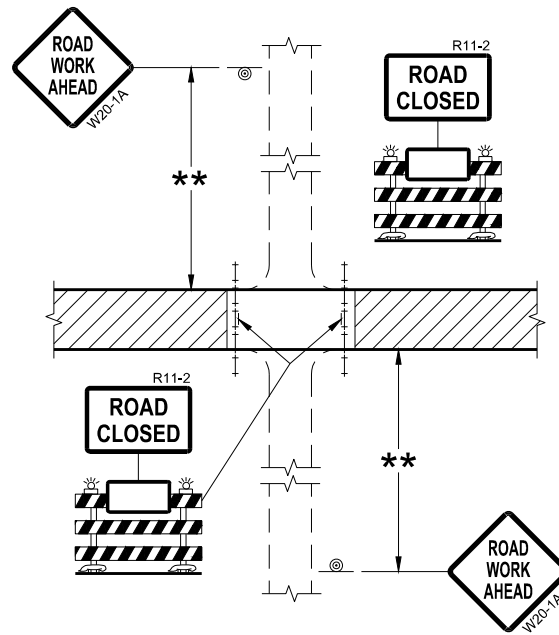
FHWA



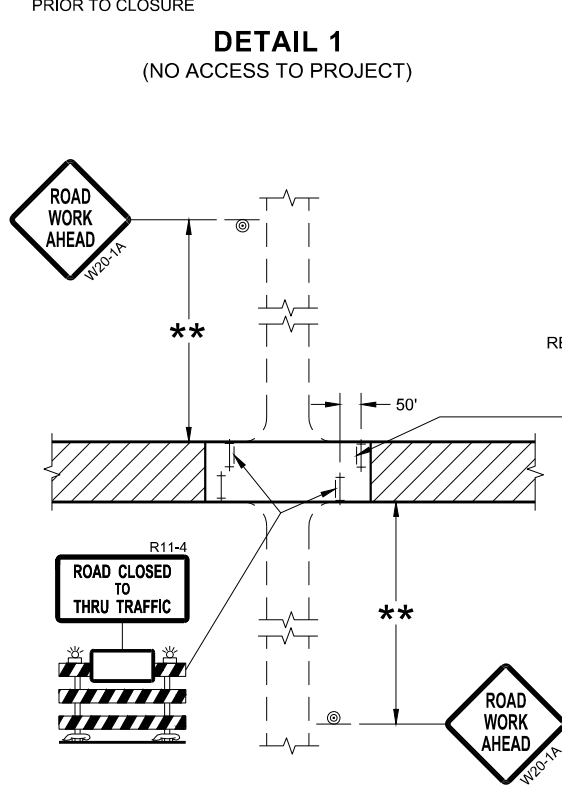
SDD 15C03 Barricades and Signs for Sideroad Closures



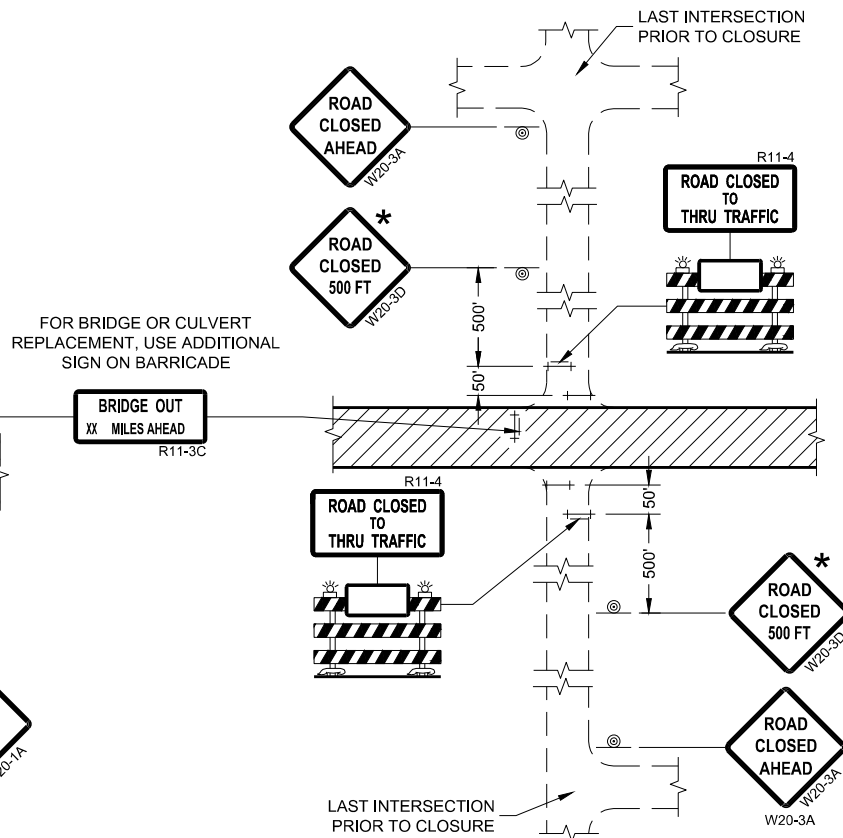
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

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SDD 15C03 - 05

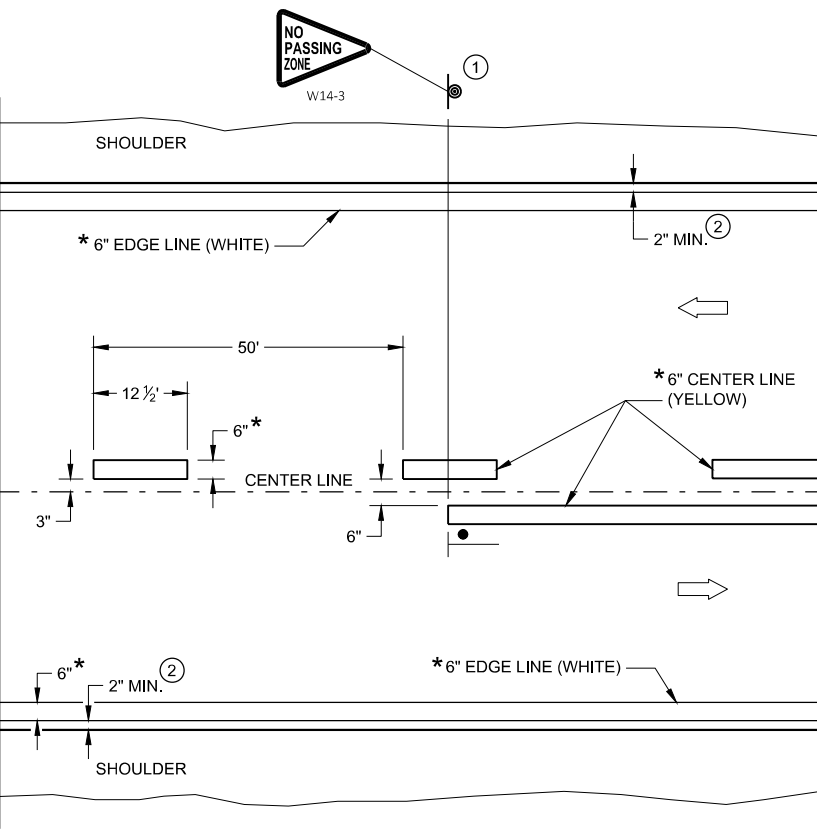
SDD 15C03 - 05

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

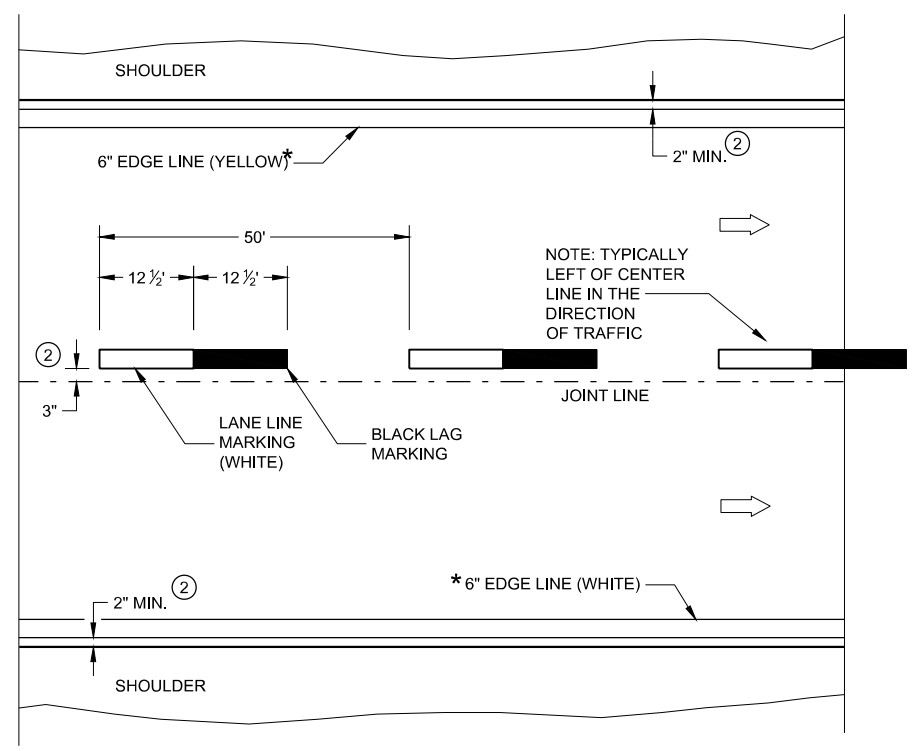
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

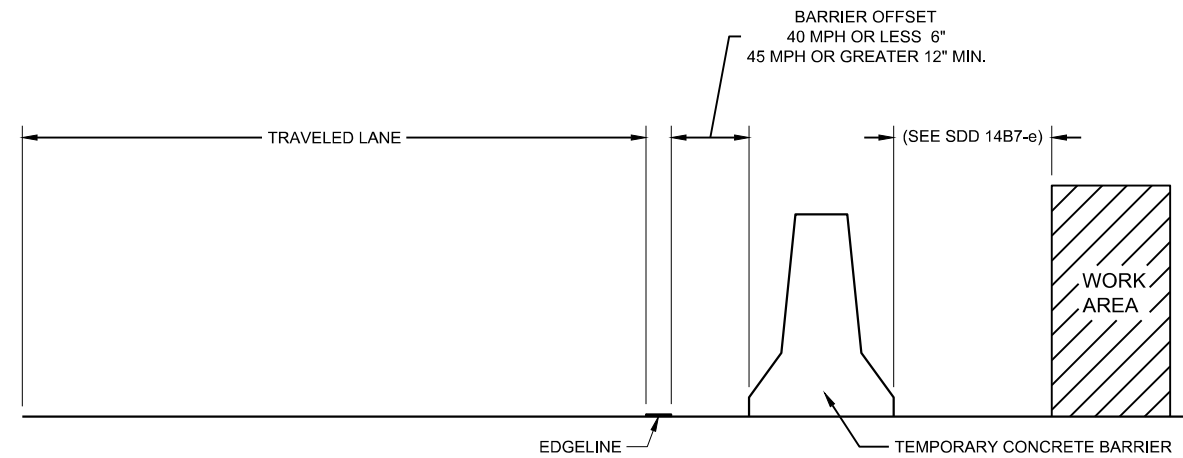
- ① "T" MARKING
- ② SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED
 May 2023 /S/ Jeannie Silver
 DATE STATEWIDE SIGNING AND MARKING ENGINEER

FHWA



TEMPORARY BARRIER OFFSET FROM EDGELINE

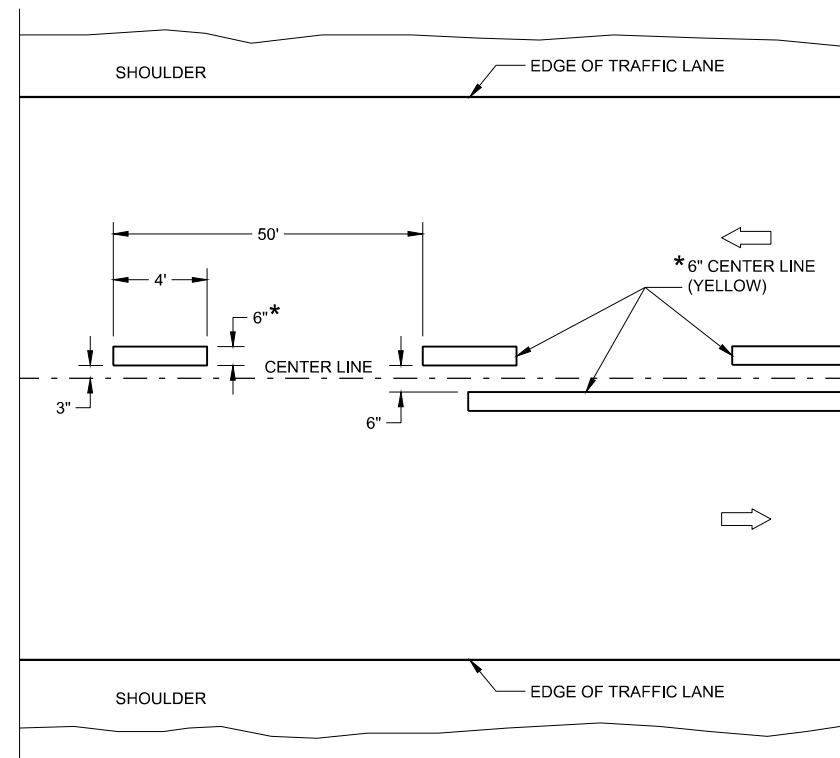
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

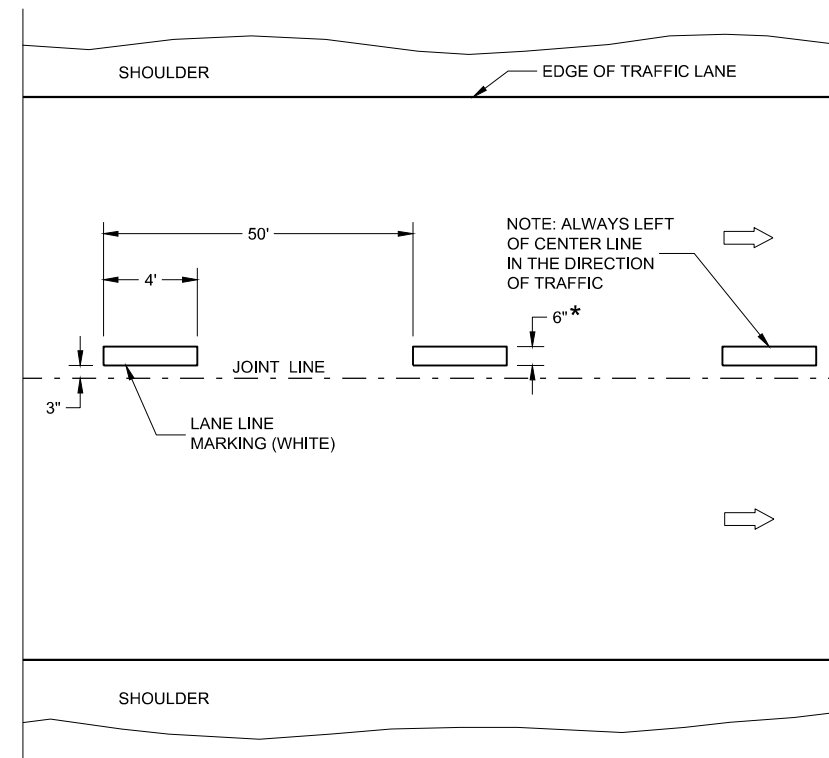
LEGEND

➔ DIRECTION OF TRAFFIC

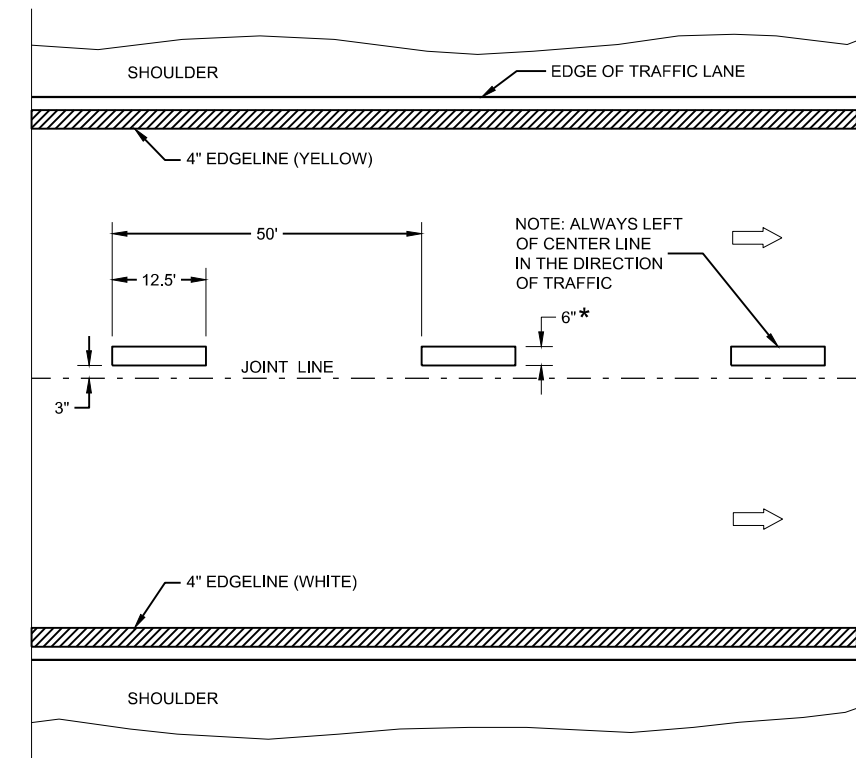
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Jeannie Silver
DATE STATEWIDE SIGNING AND MARKING ENGINEER

FHWA

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SDD 15C08-23b

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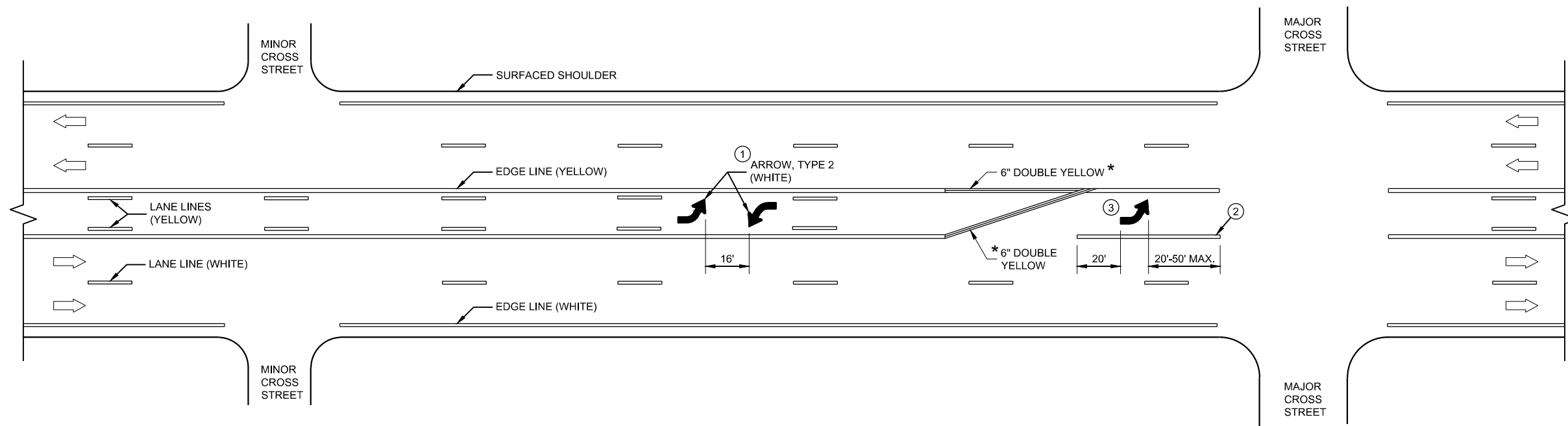
SDD 15C08-23C

GENERAL NOTES

- ① A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ② 10" WHITE
- ③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

➡ DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

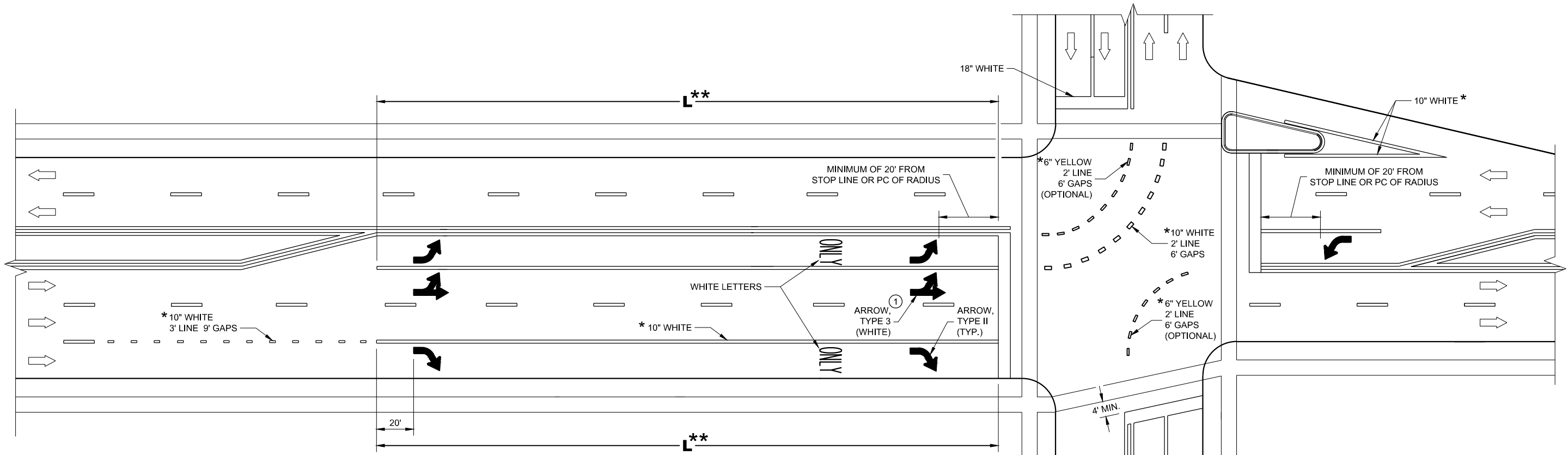


TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

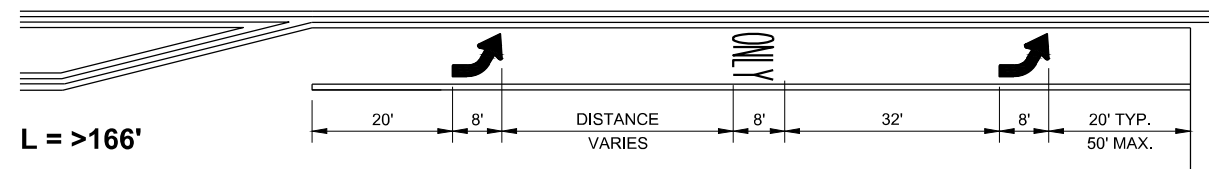
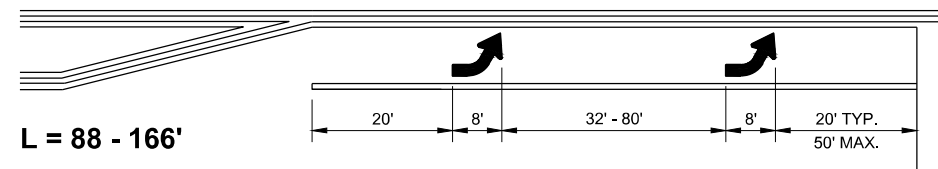
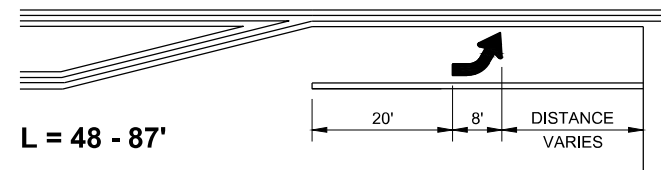
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SDD 15C08-23C



TURN LANE OPTIONS

LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

GENERAL NOTES

① QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

➡ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

**PAVEMENT MARKING
(TURN LANES)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

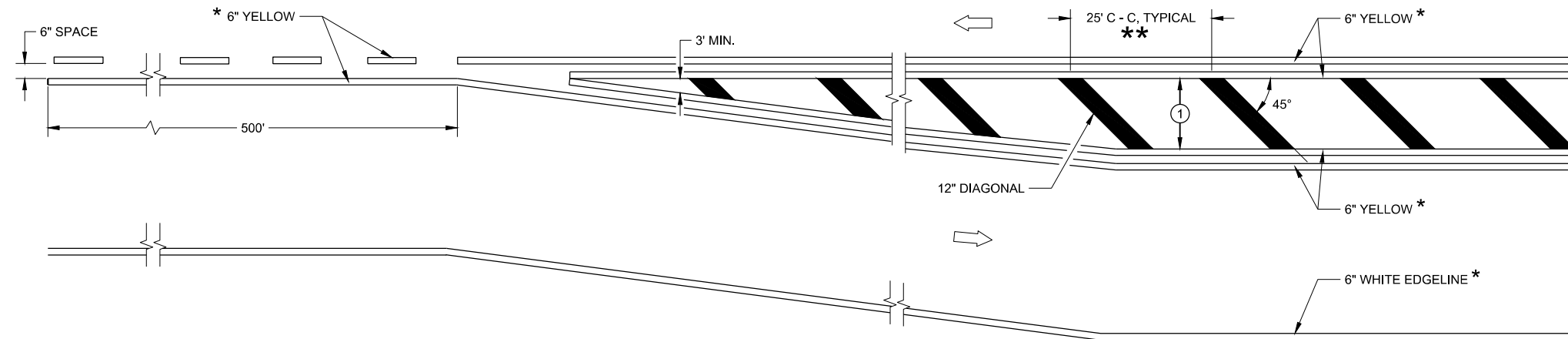
- ① DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

➔ DIRECTION OF TRAVEL

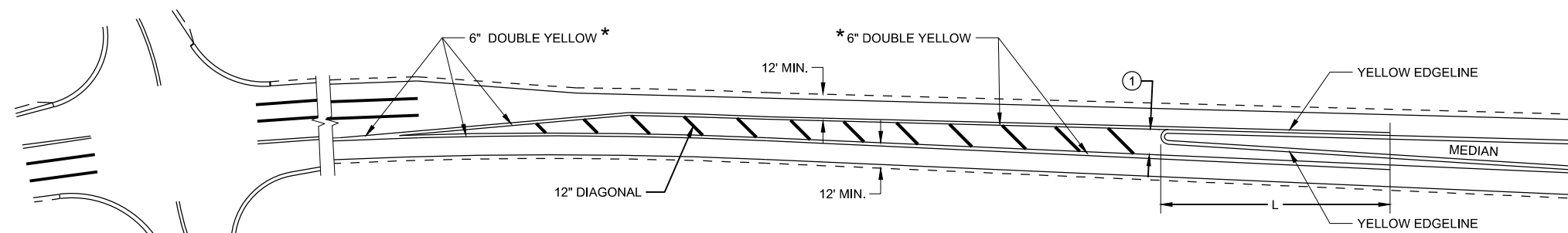
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

SPEED LIMIT	L
<35 MPH	5'
35> MPH	50'

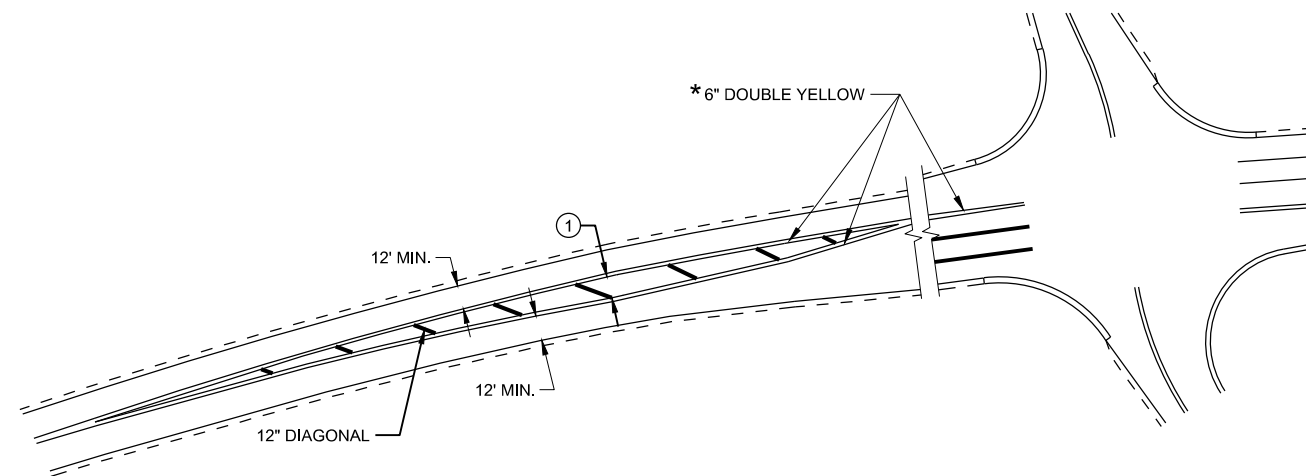
** WHEN THE PAINTED MEDIAN LENGTH IS LESS THAN 50 FEET THE SPACING IS 10'.



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

6

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SDD 15C18-08a

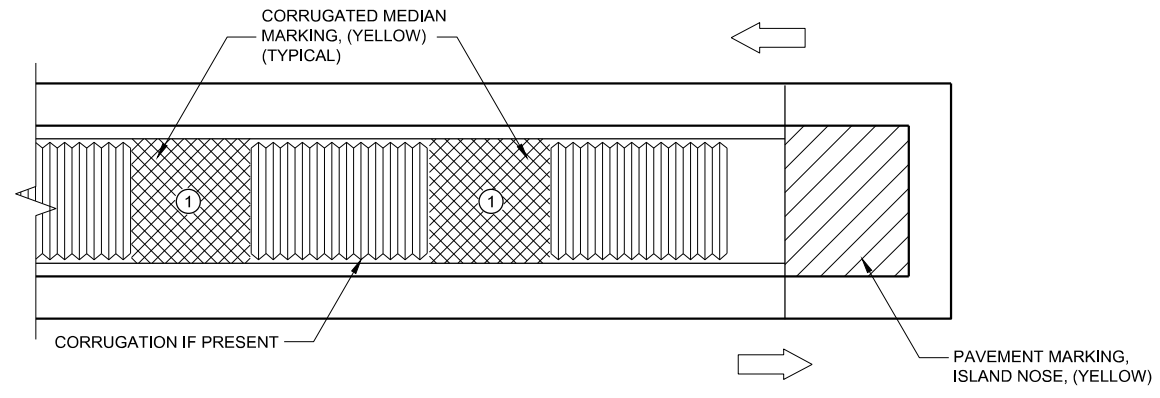
SDD 15C18-08a

MEDIAN ISLAND PAVEMENT MARKINGS

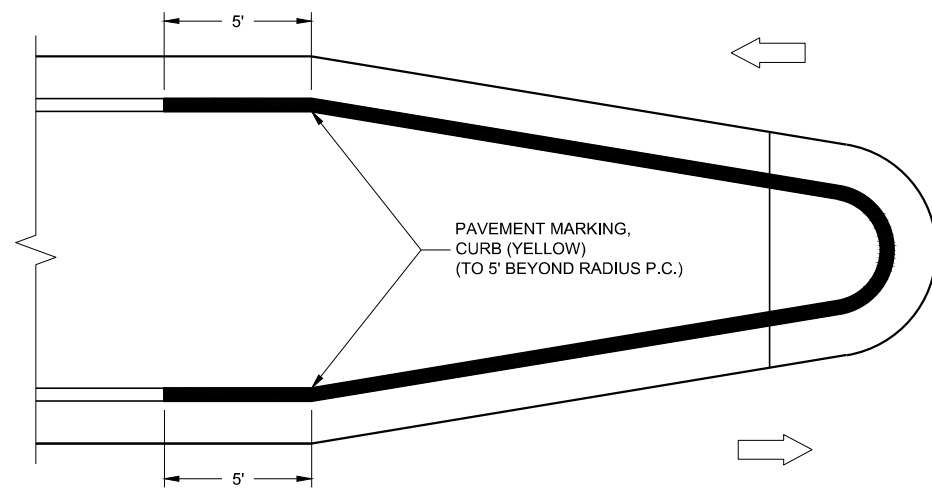
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Jeannie Silver
DATE STATE SIGNATURE ENGINEER
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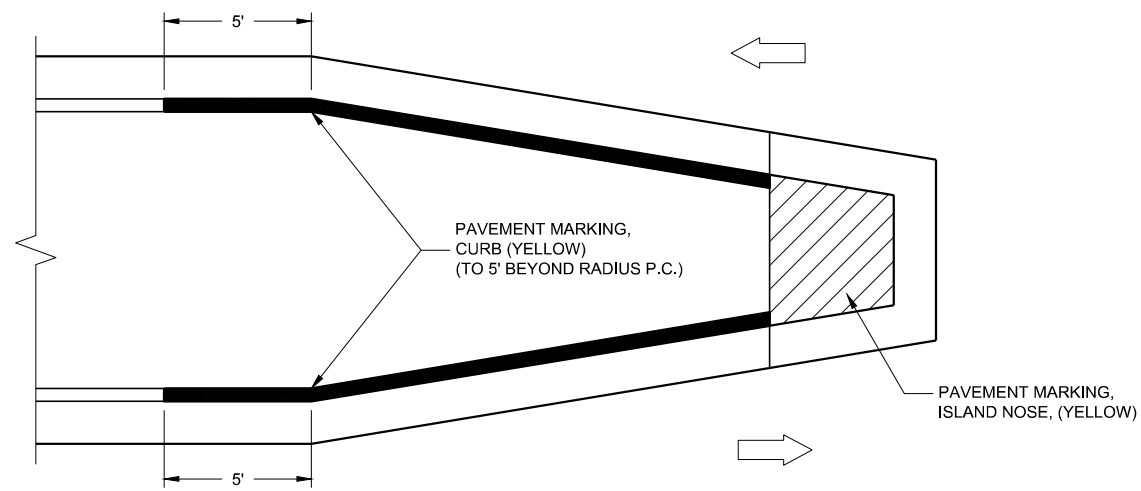
FHWA



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

- ① APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

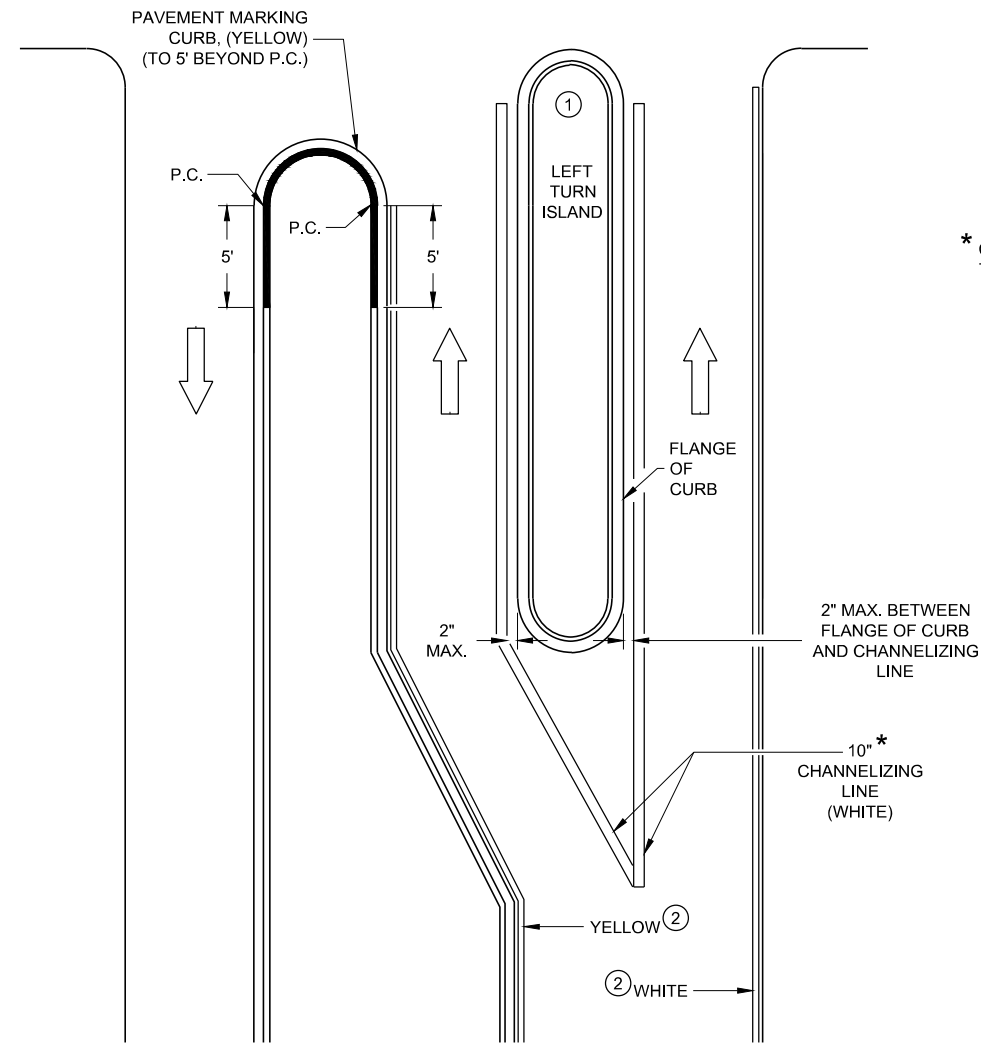
APPROVED
May 2023 /S/ Jeannie Silver
DATE STATE SIGNATURE ENGINEER
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REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

GENERAL NOTES

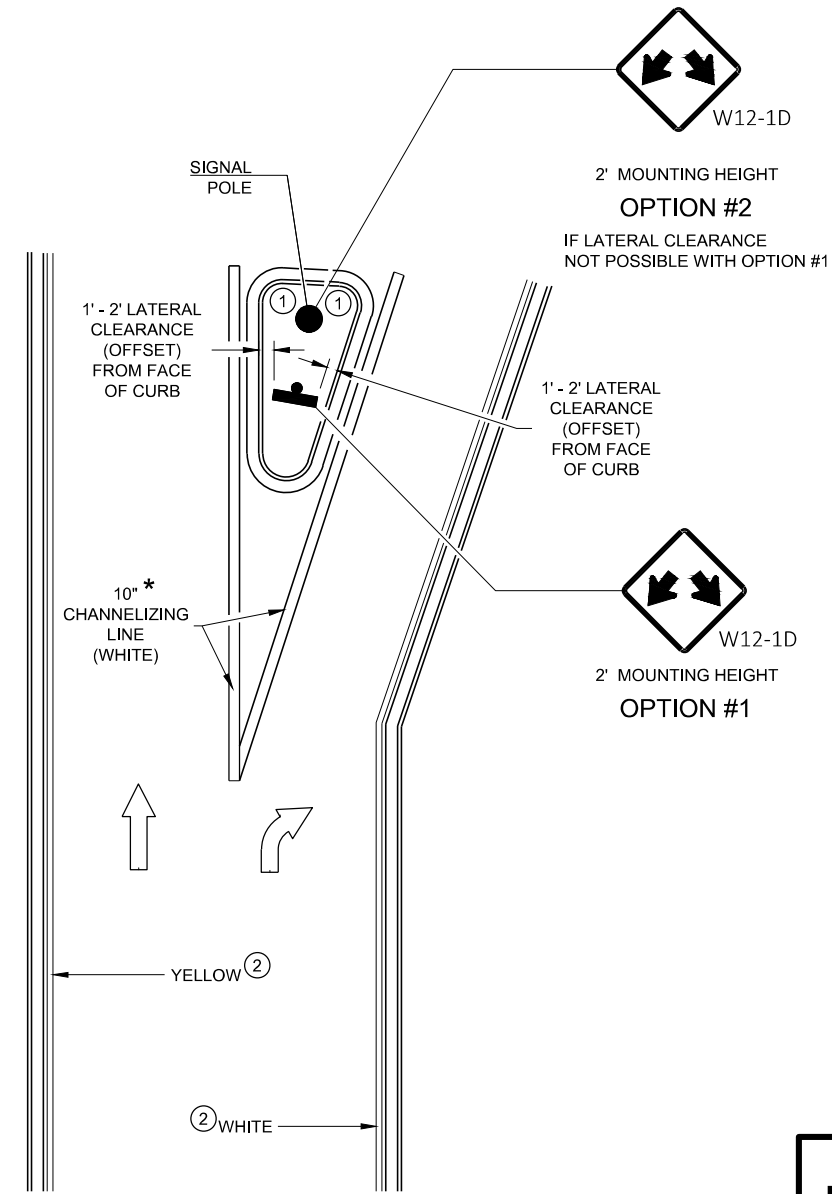
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

- ① MARK CURB NOSES YELLOW.
- ② MARK ACCORDING TO TABLE.



* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND

6

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SDD 15C18-08C

SDD 15C18-08C

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/s/ Jeannie Silver STATE SIGNING ENGINEER Page 15 of 207

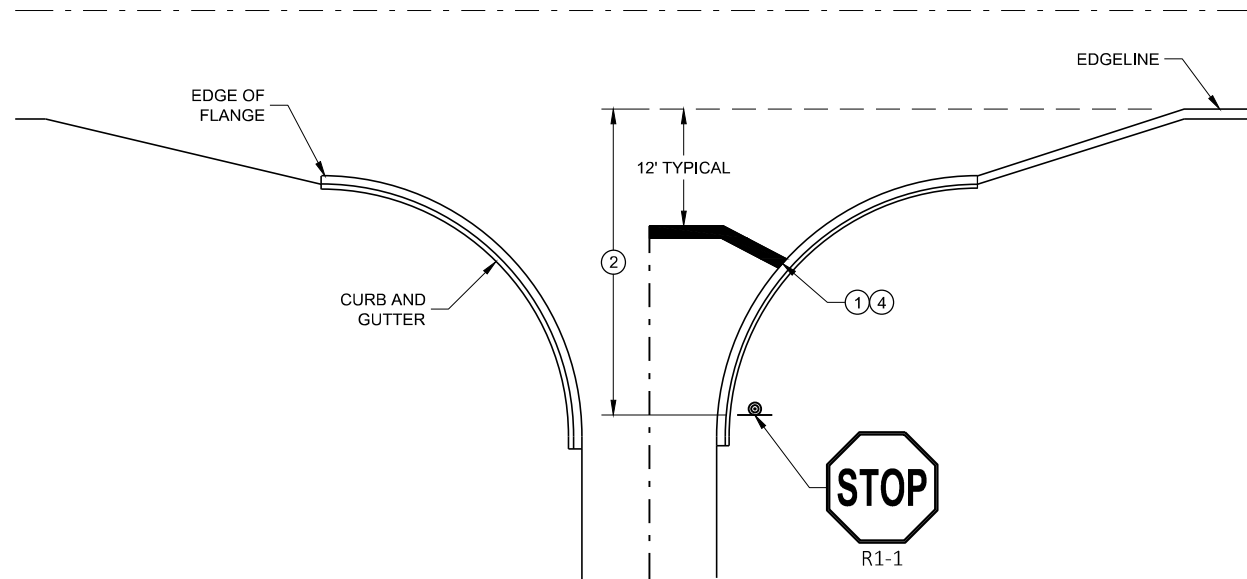


SDD 15C33 Stop Line and Crosswalk Pavement Marking

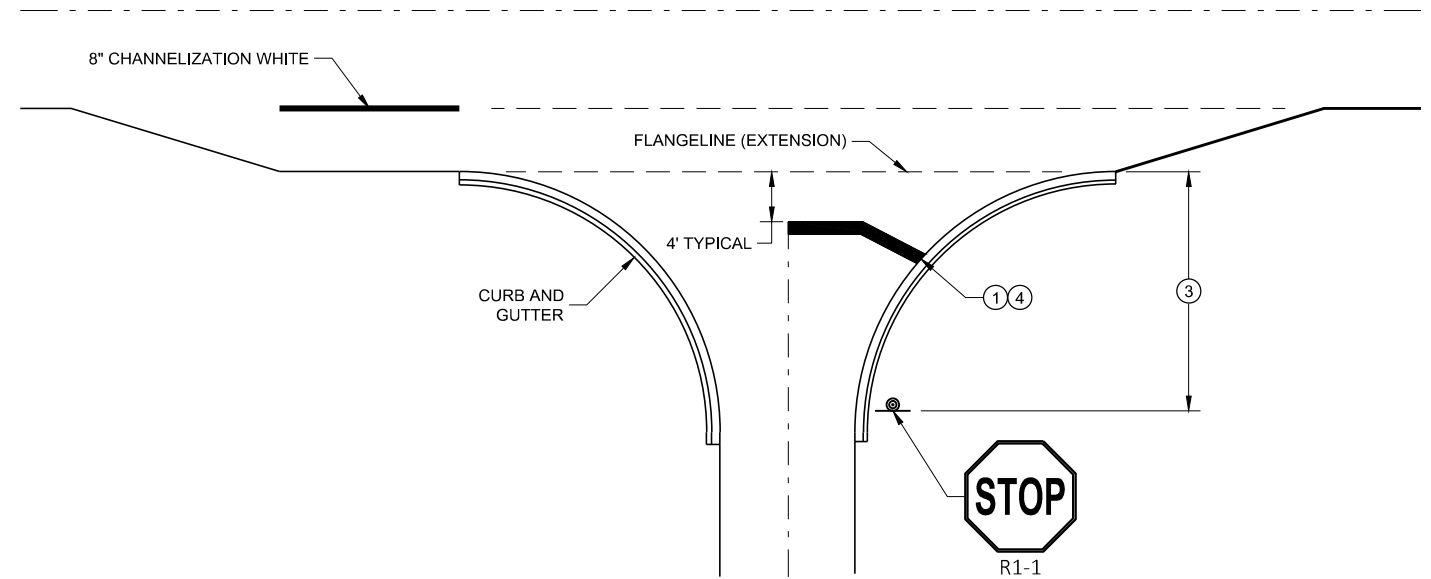
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

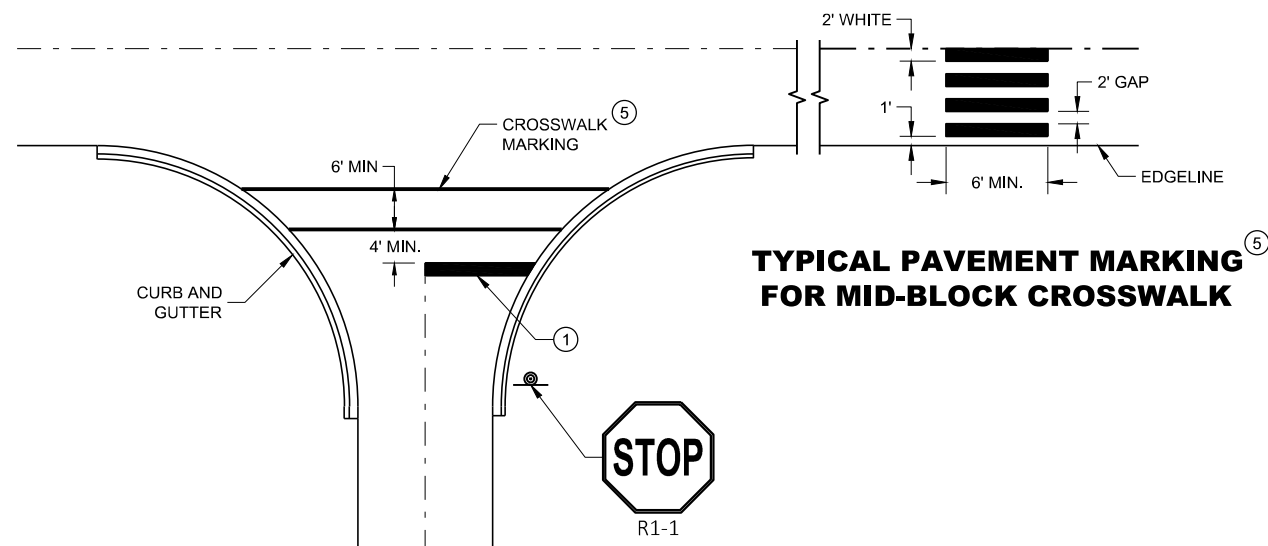
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



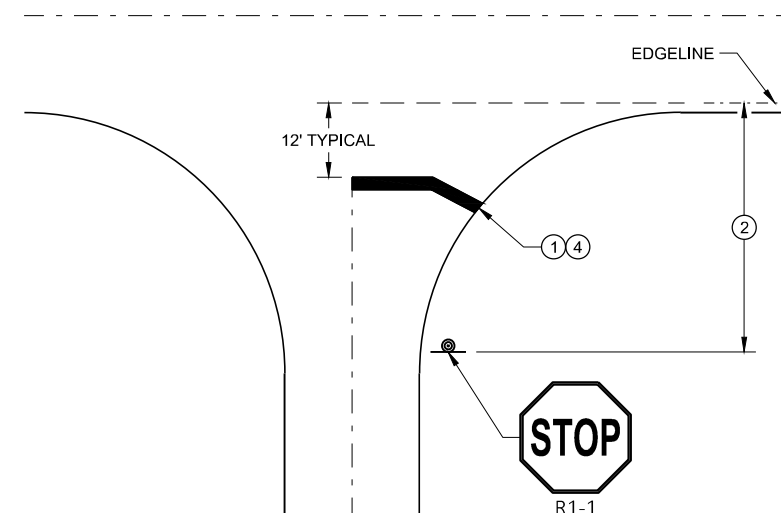
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING

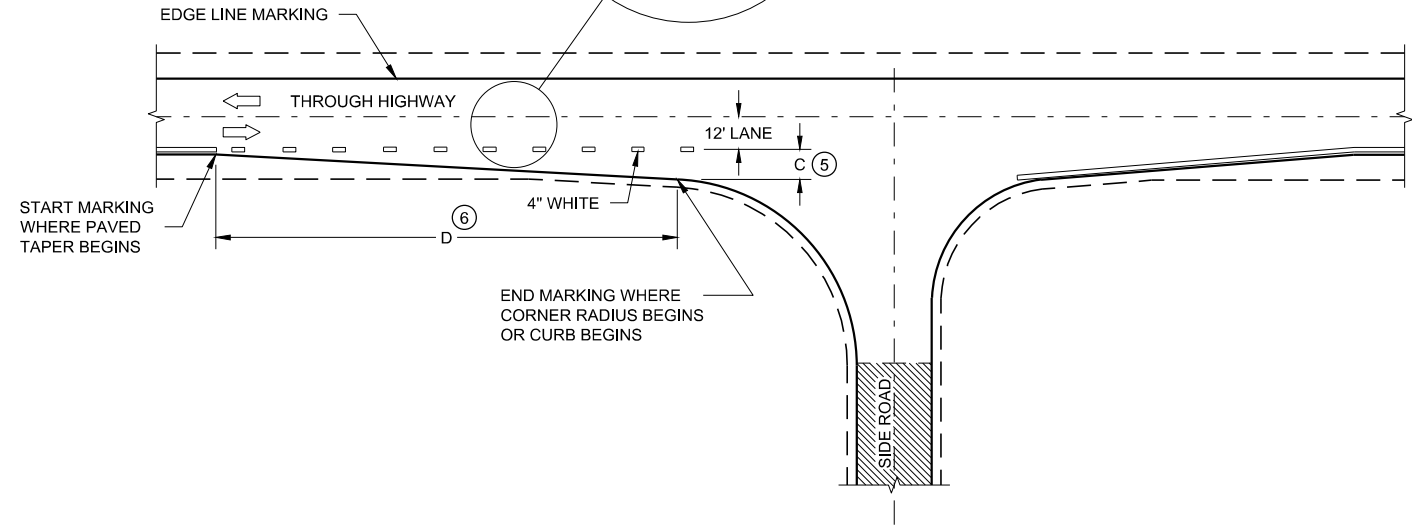
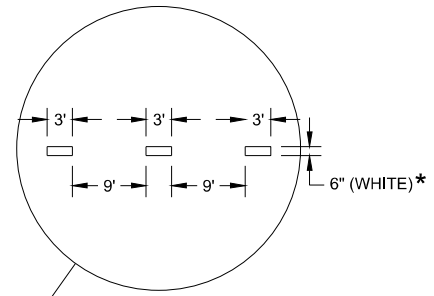


TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 November 2019 /S/ Matthew Rauch
 DATE STATE SIGNING ENGINEER
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MINOR INTERSECTION

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

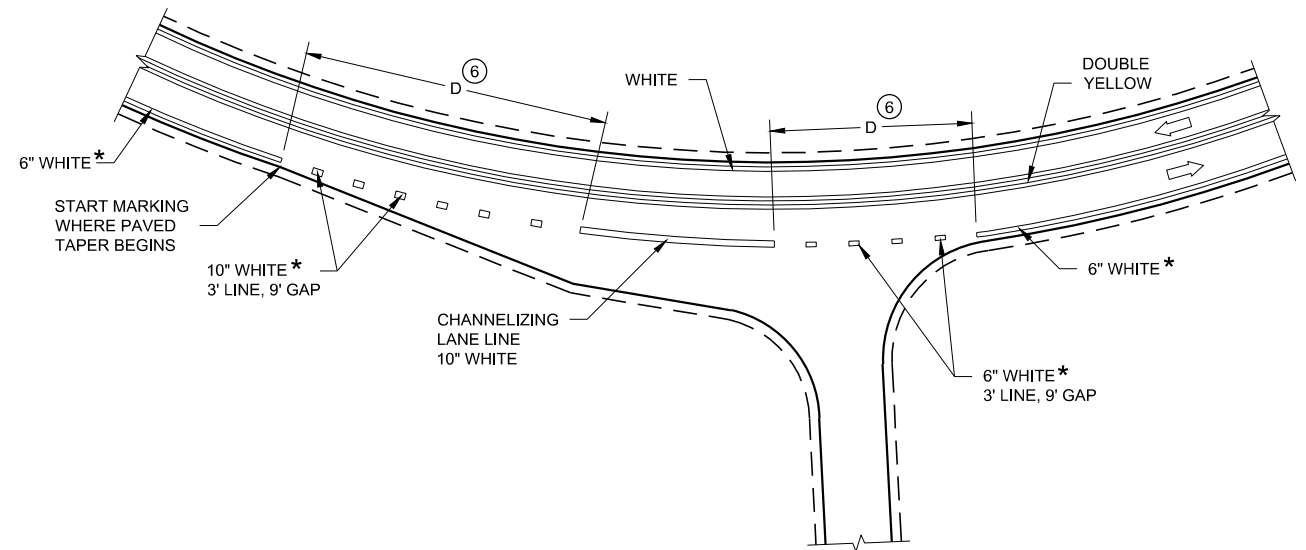
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

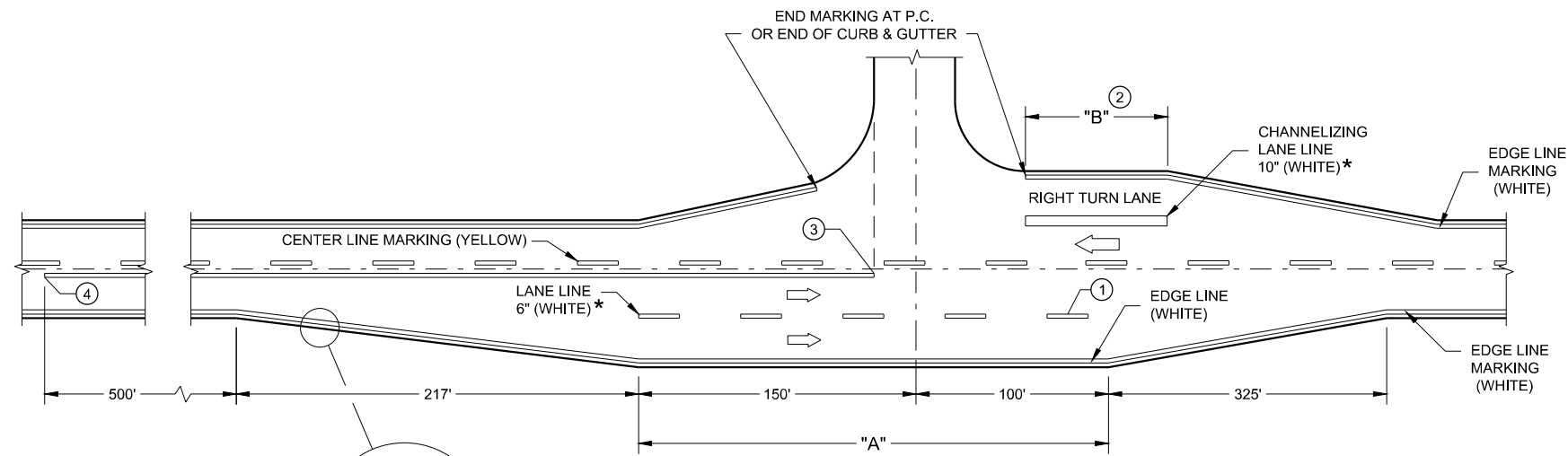
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑤ WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
- ⑥ WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

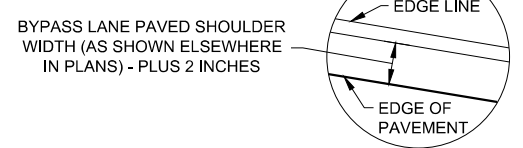
➔ DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



**MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)**



**PAVEMENT MARKING
(INTERSECTIONS)**










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SDD 15C35-06a

SDD 15C35-06a

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

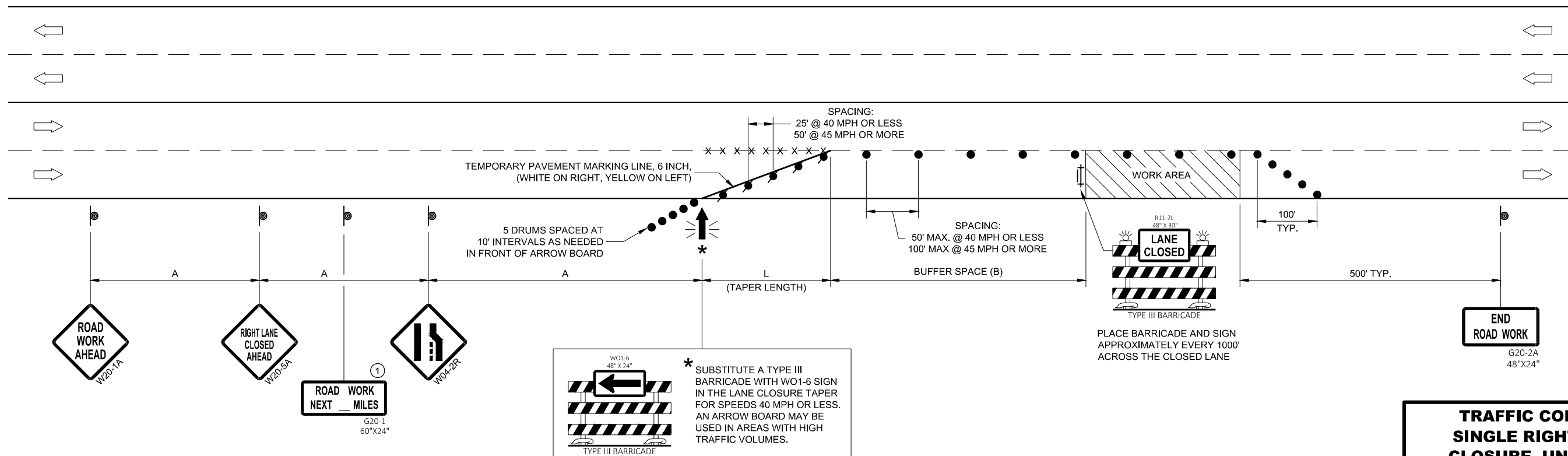
① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'



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SDD 15D20-07b

SDD 15D20-07b

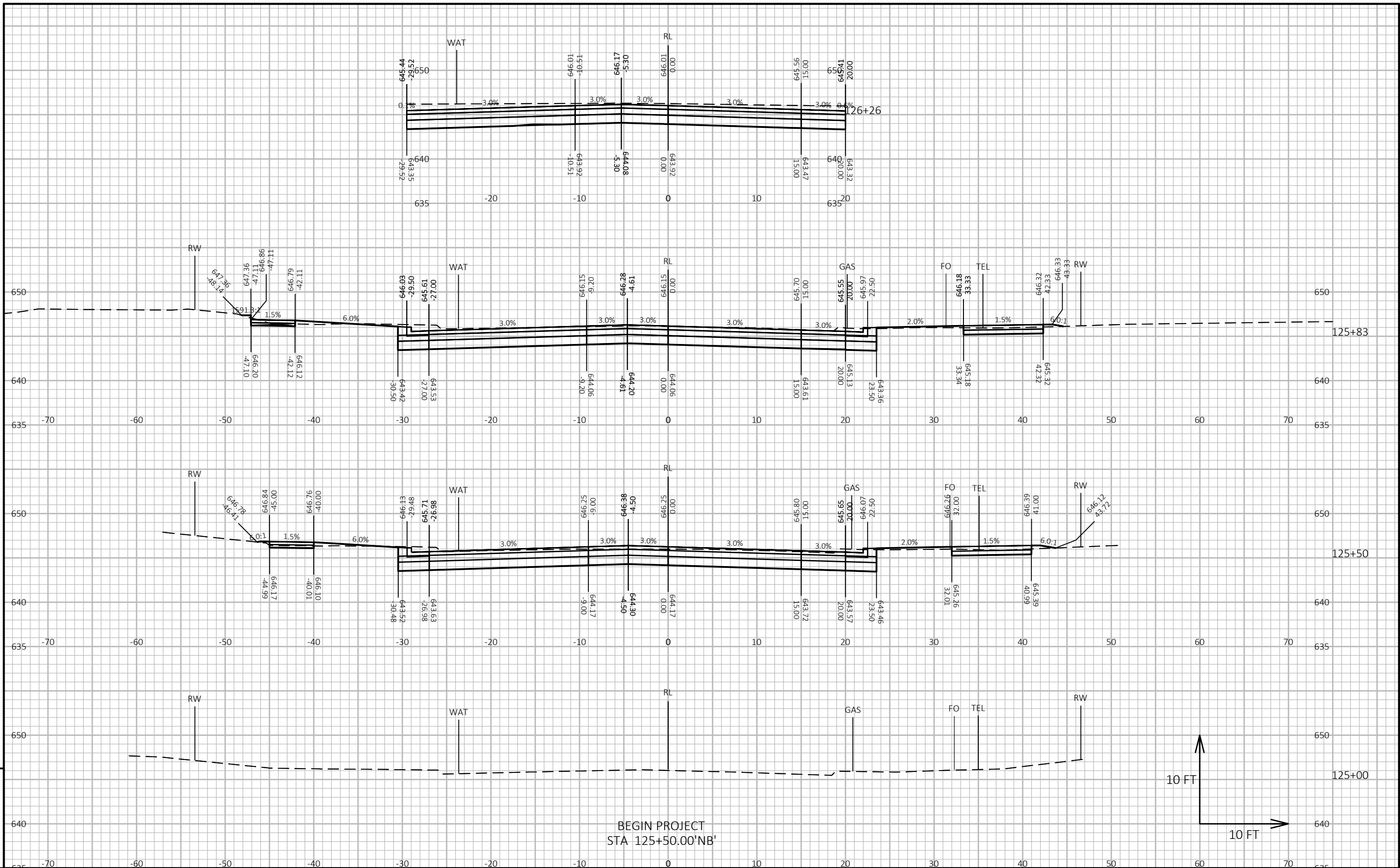
**TRAFFIC CONTROL,
SINGLE RIGHT LANE
CLOSURE, UNDIVIDED
NON-FREEWAY/EXPRESSWAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

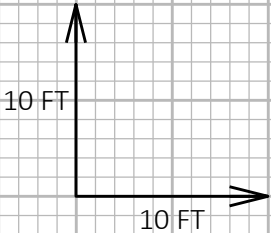
APPROVED _____ /S/ Andrew Heidtke
DATE May 2023 WORK ZONE ENGINEER

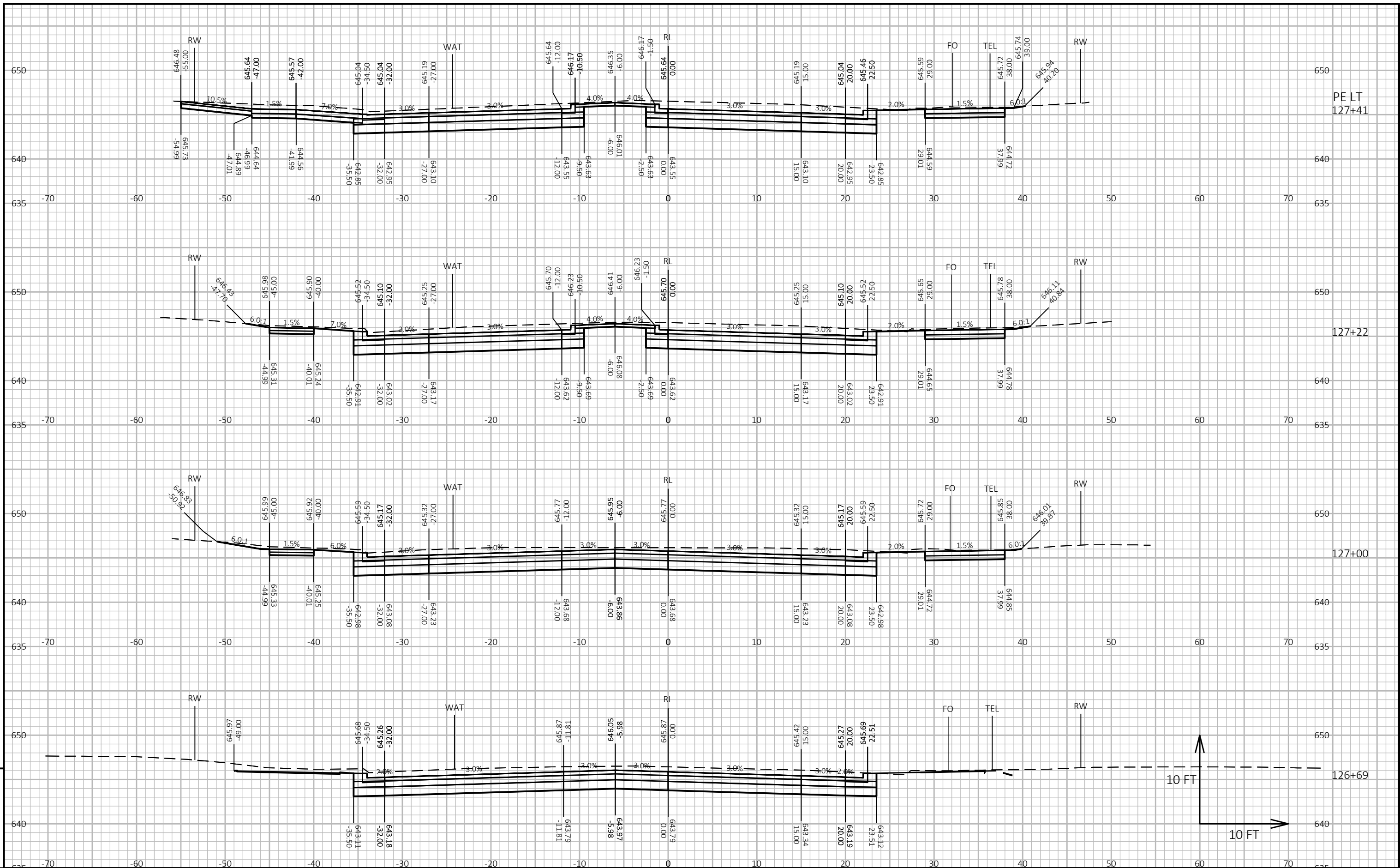
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FHWA



BEGIN PROJECT
STA 125+50.00'NB'





PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 160 of 207 E

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LAYOUT NAME - 02

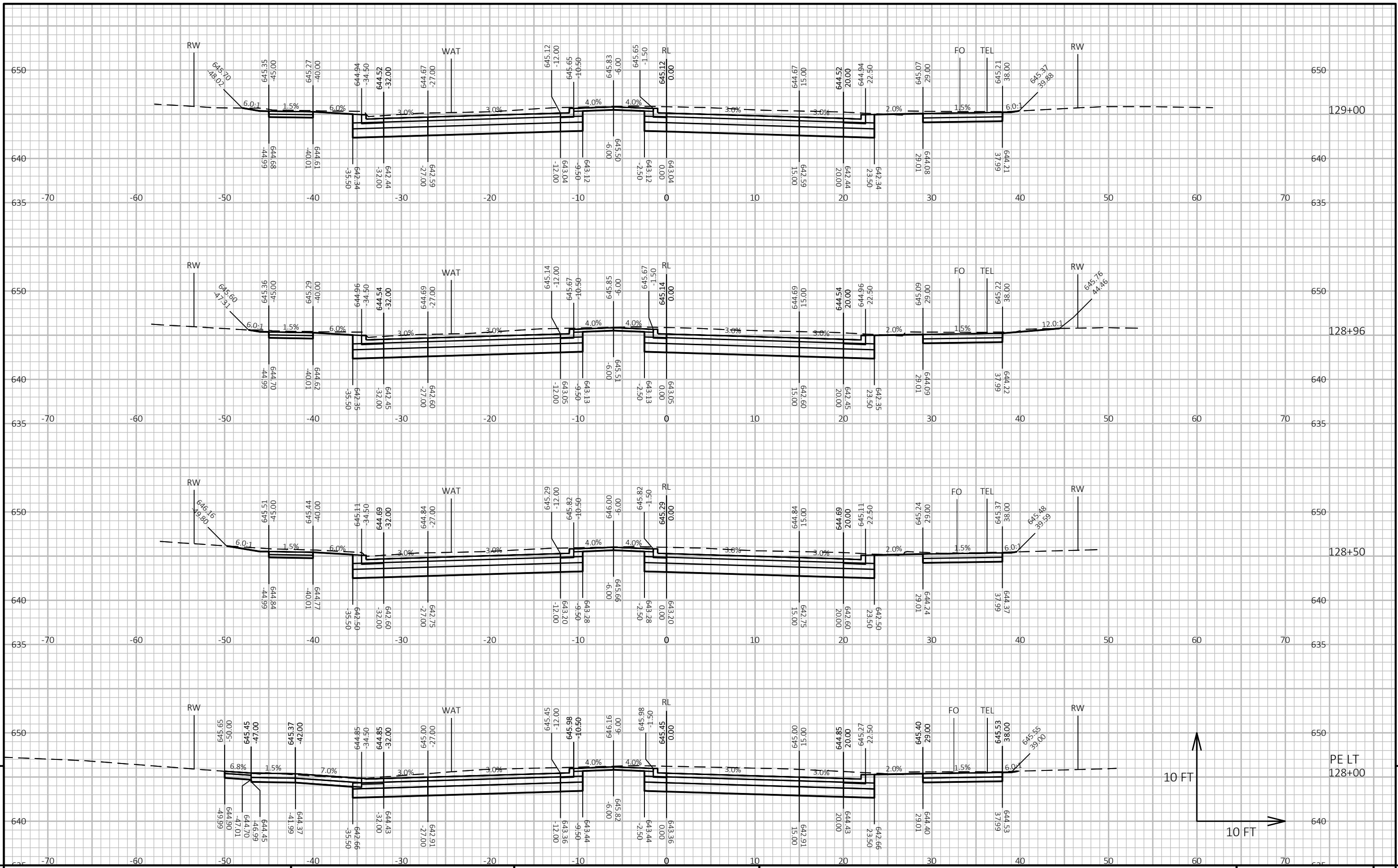
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PLOT BY : ANNIE JEROME

PLOT NAME :

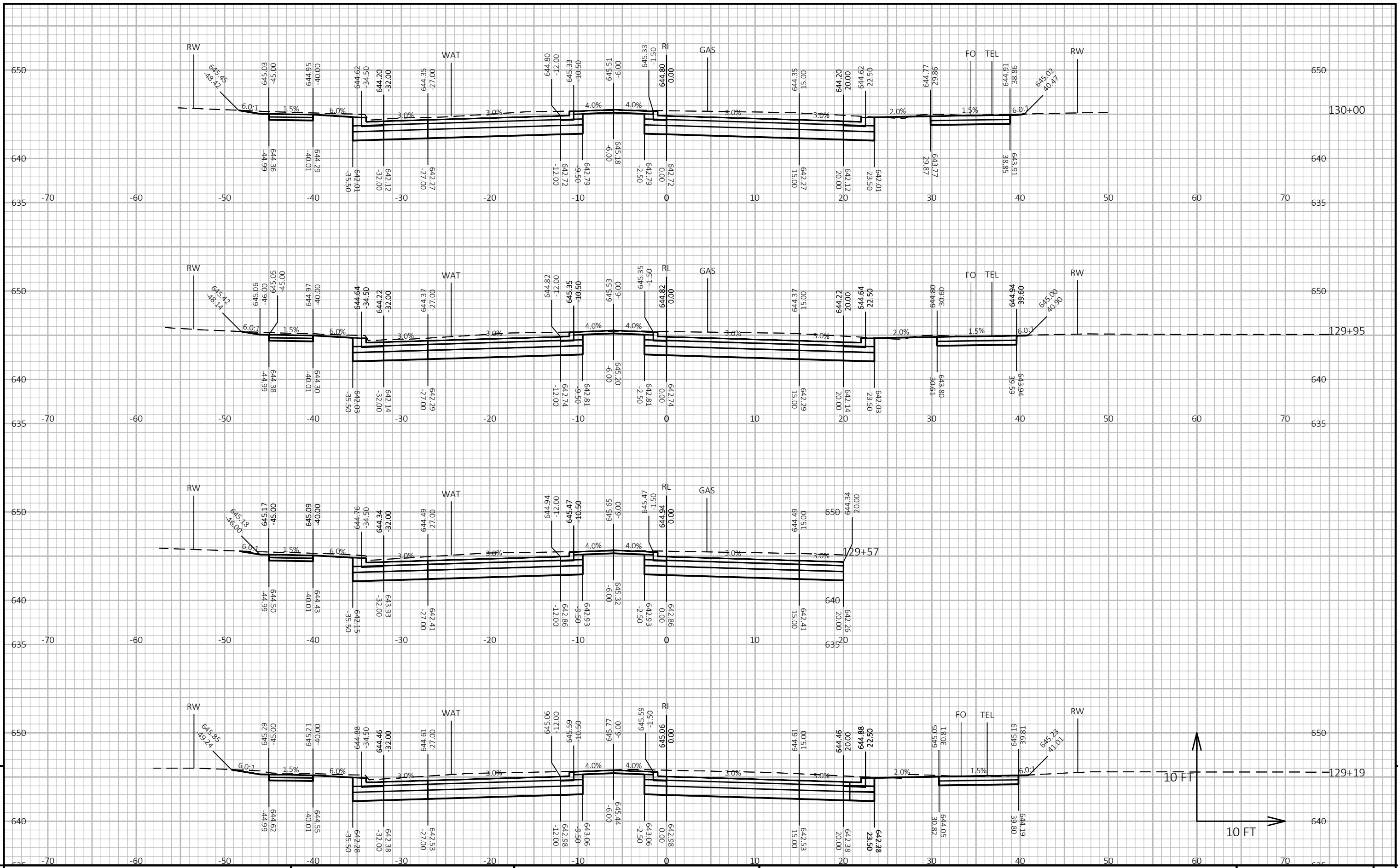
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADD SHEET 49



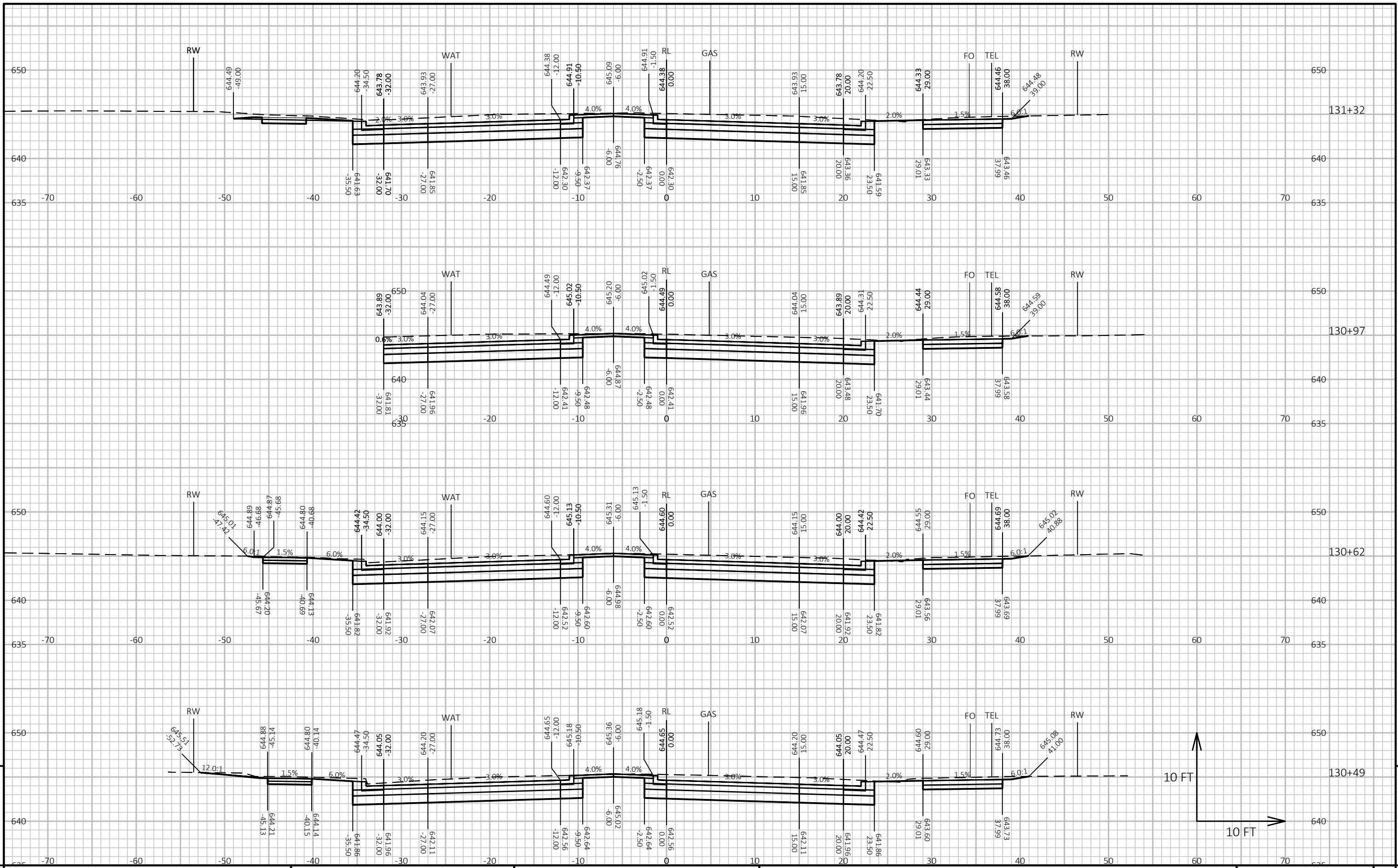
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PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 162 of 207 E

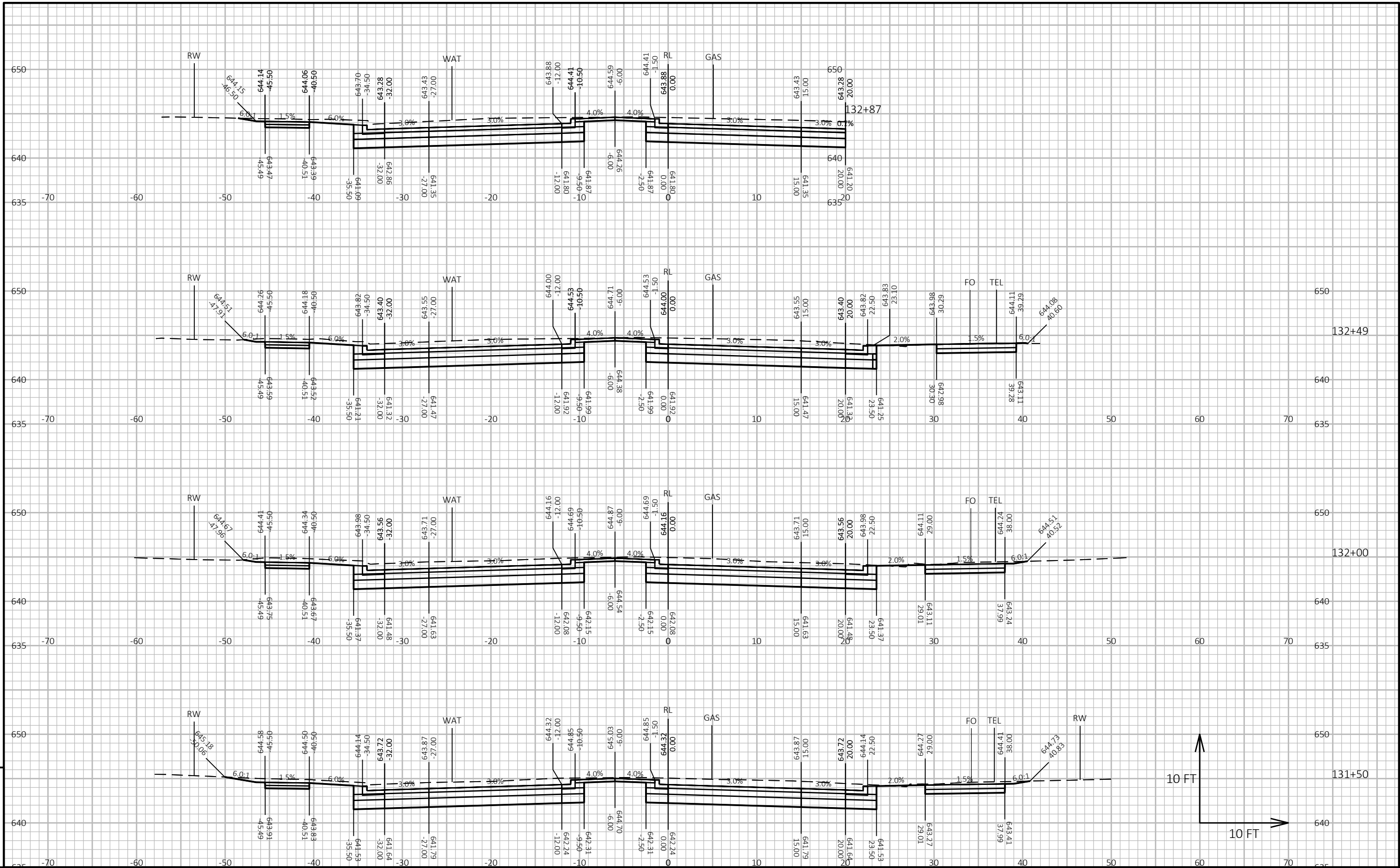
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PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 163 of 207 E

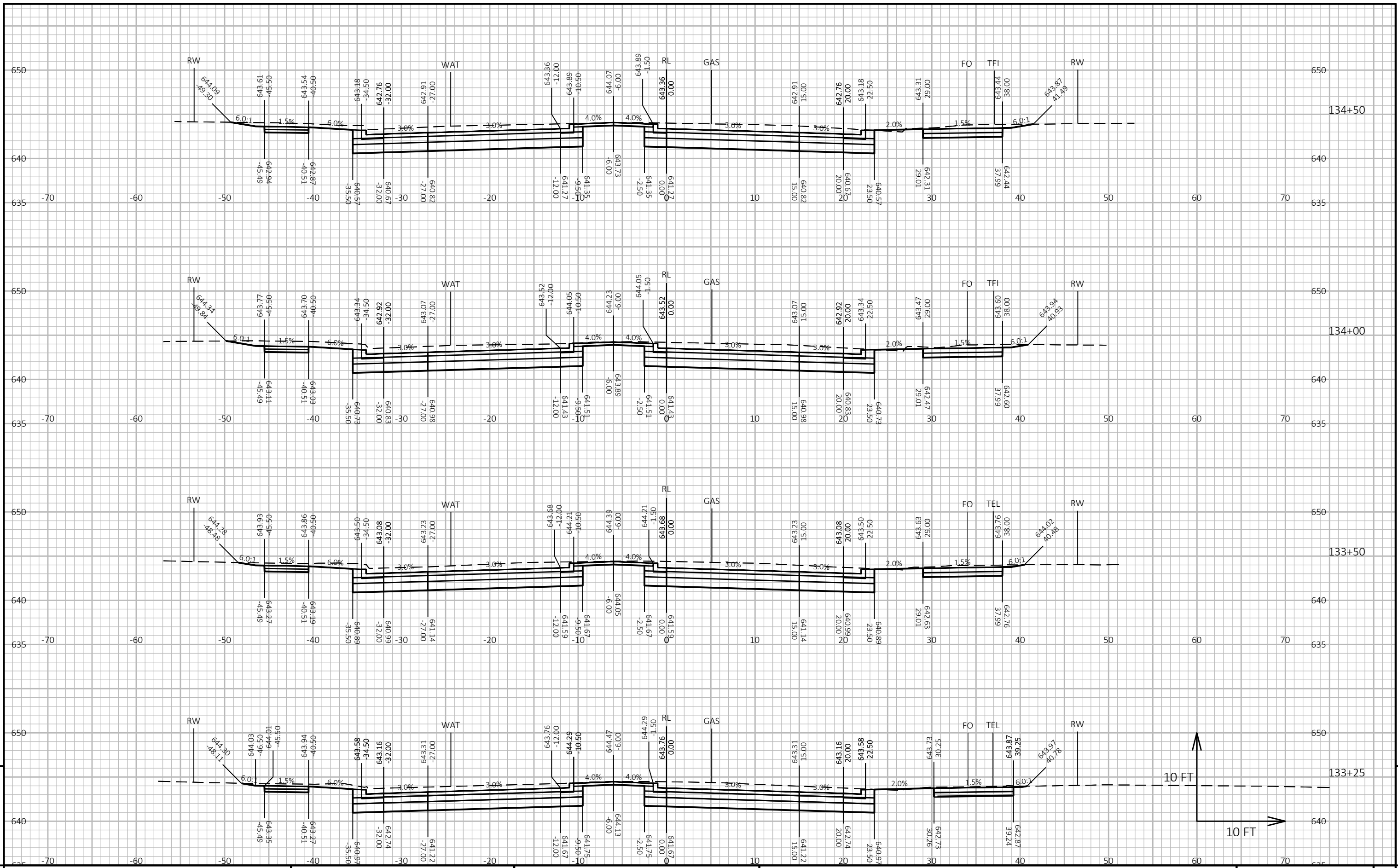
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LAYOUT NAME - 05



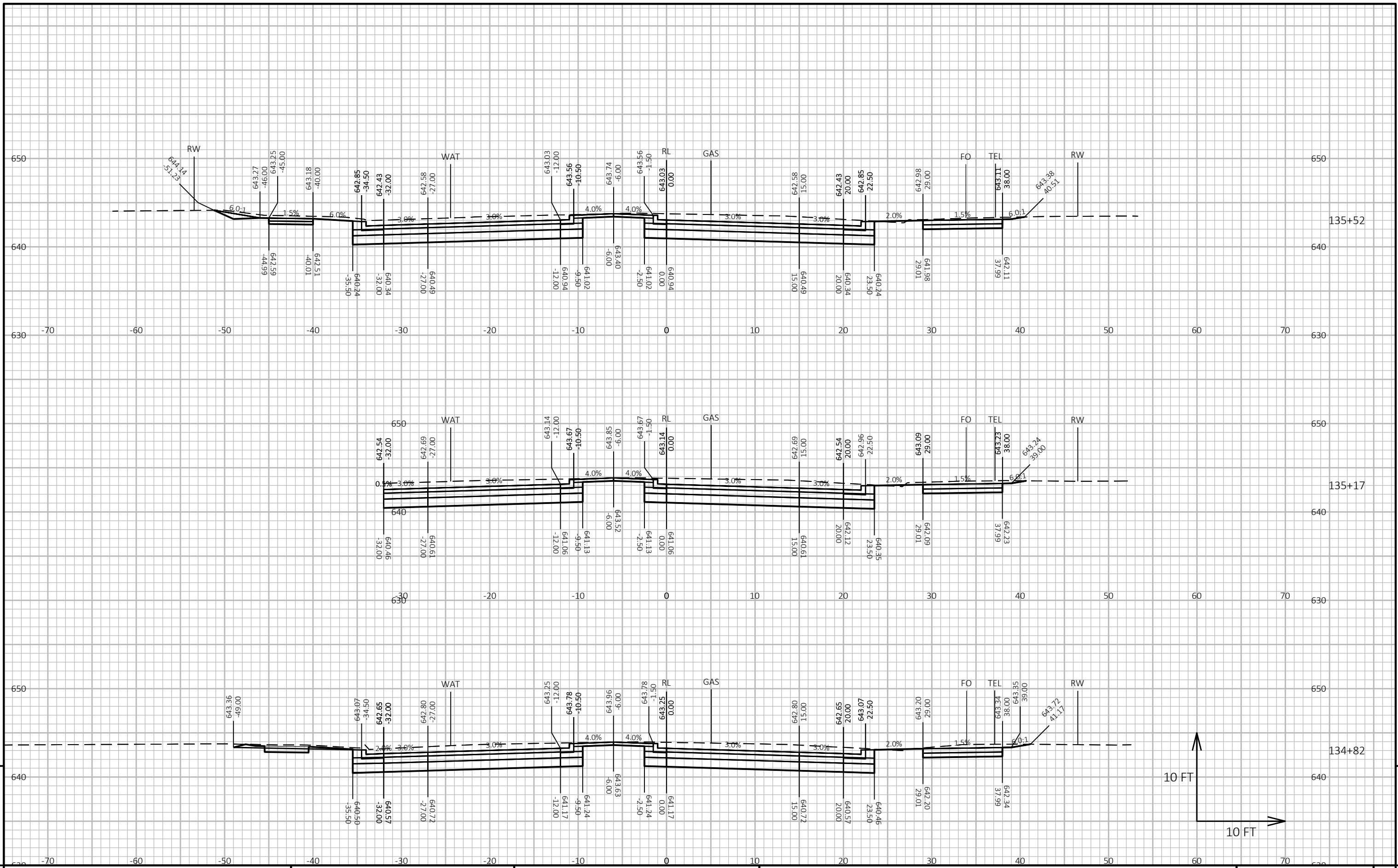
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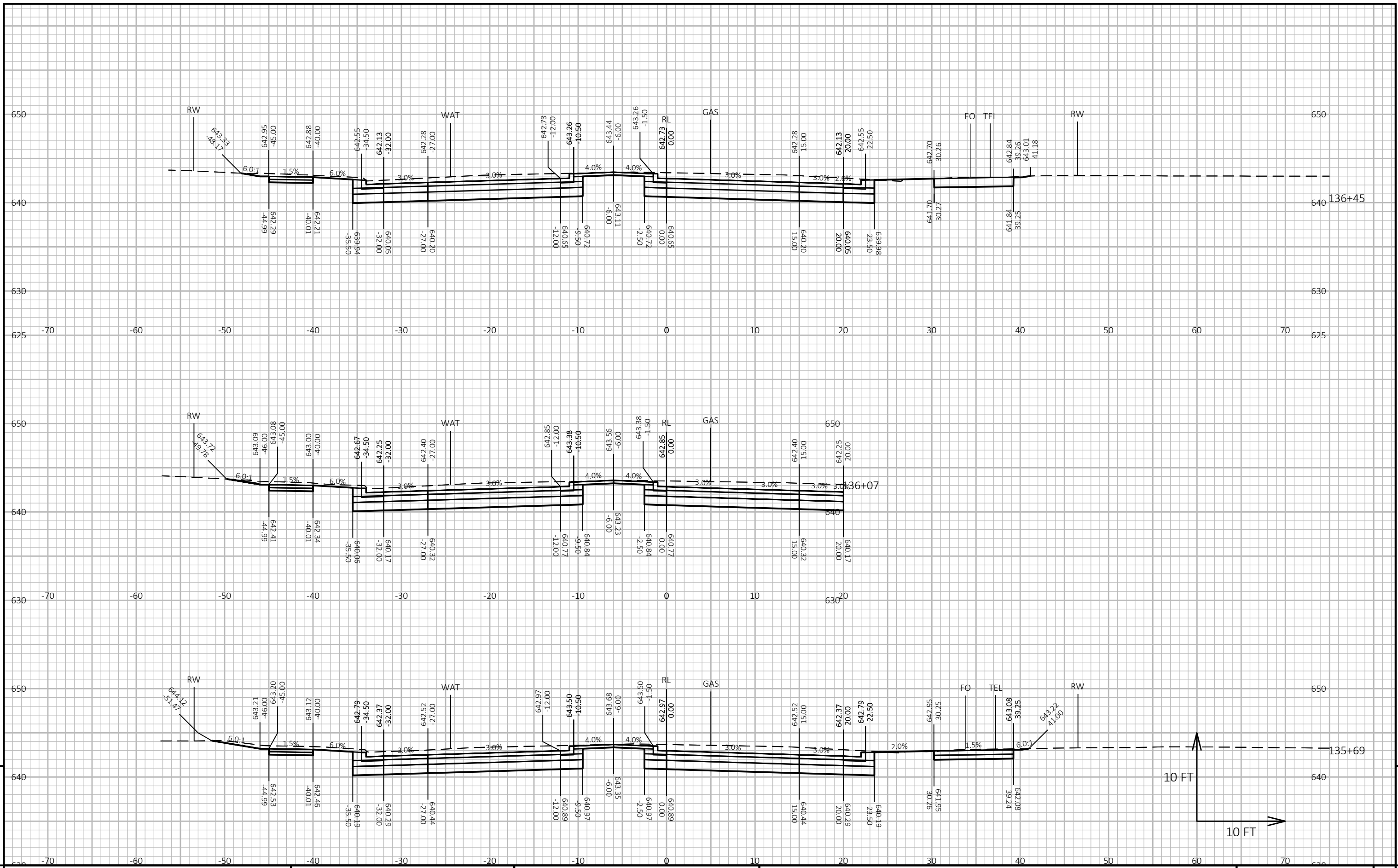
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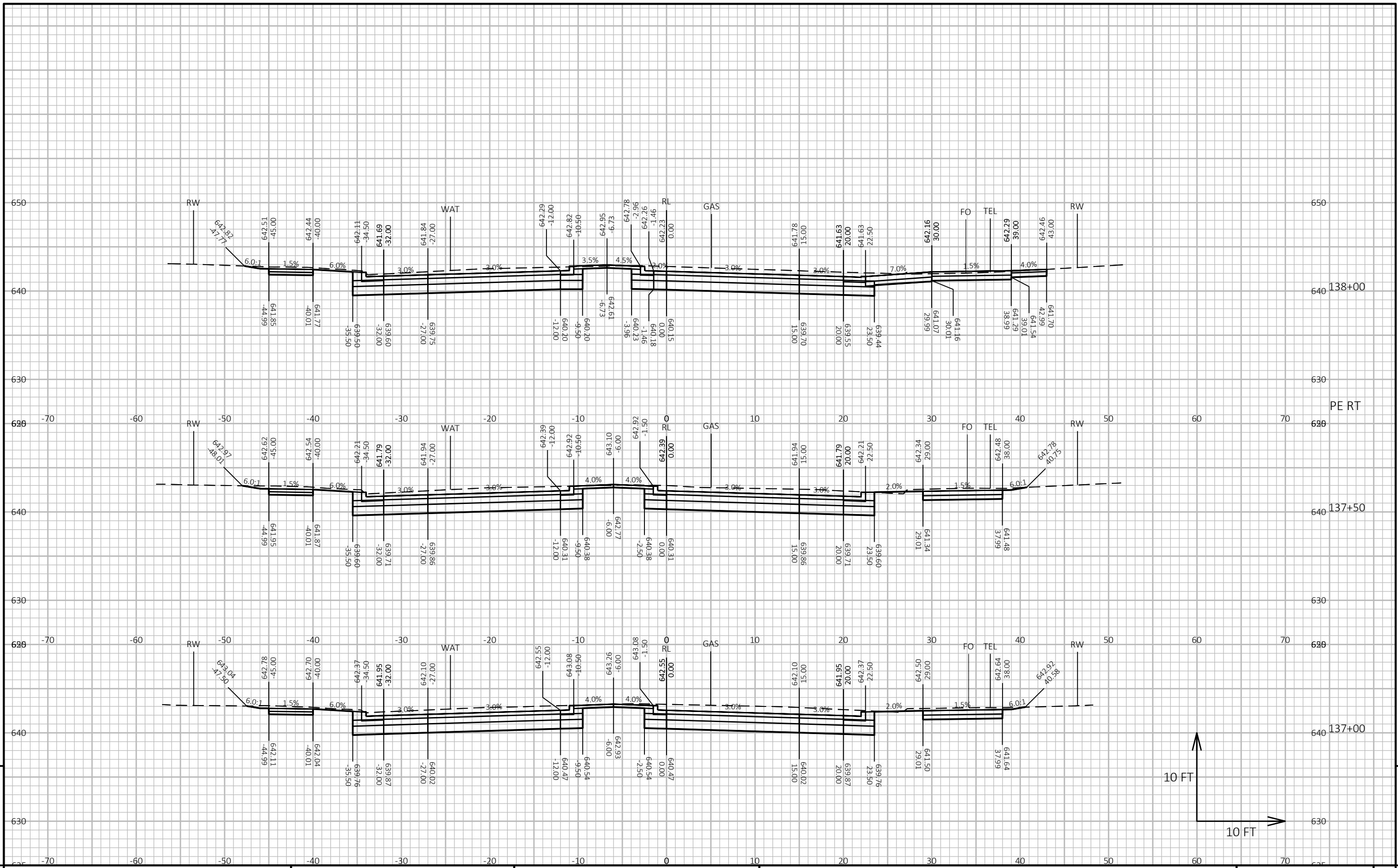
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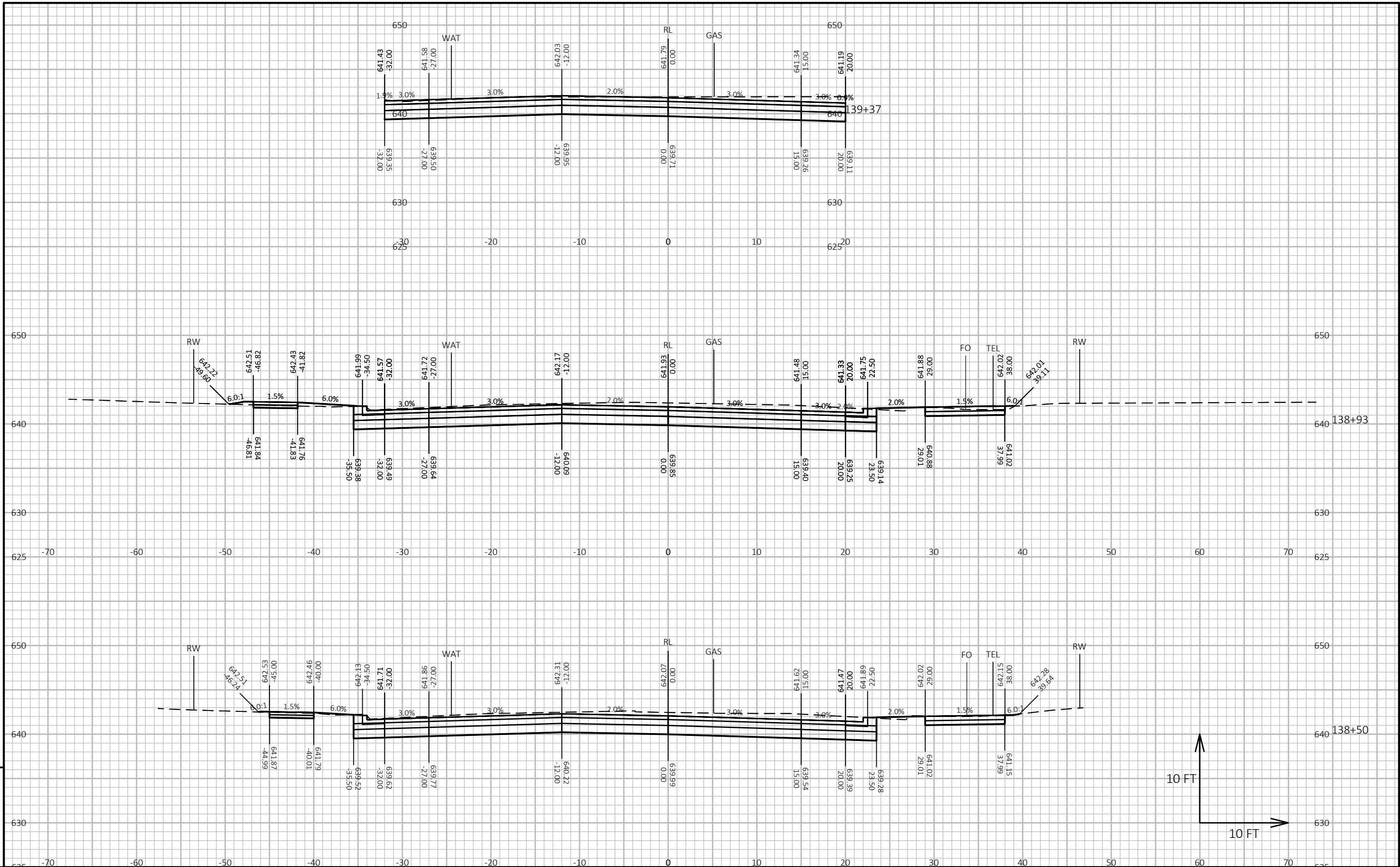
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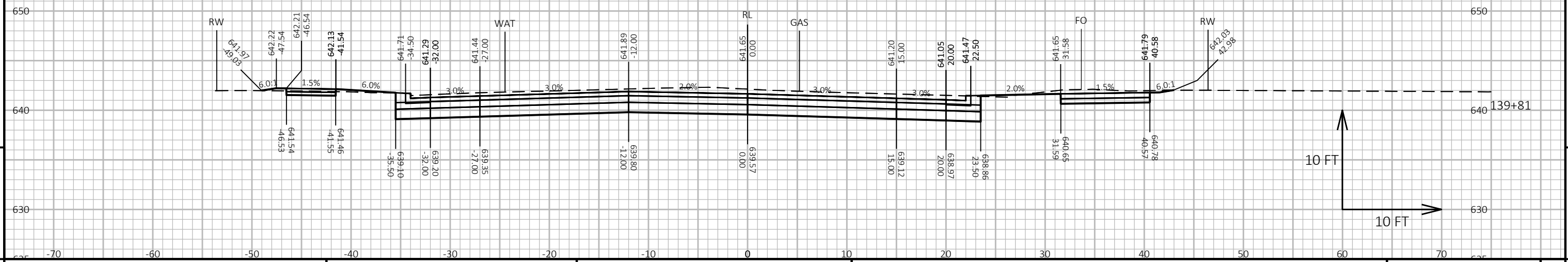
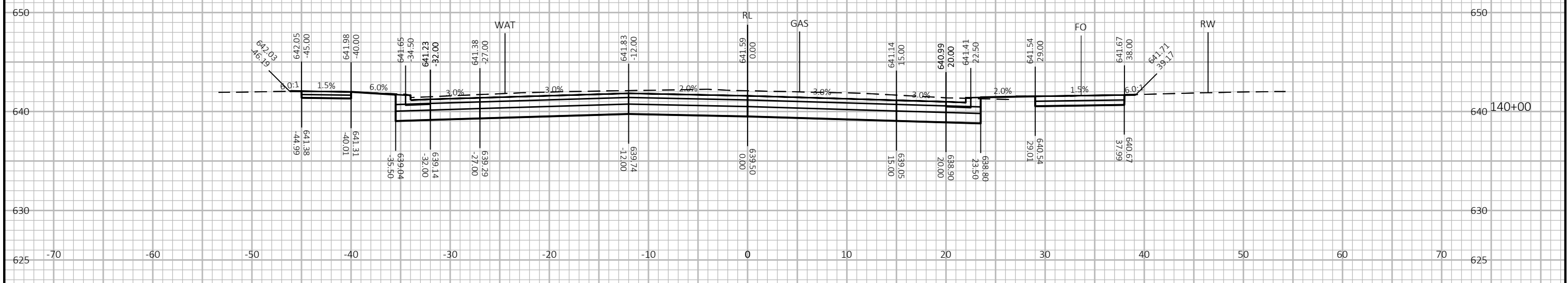
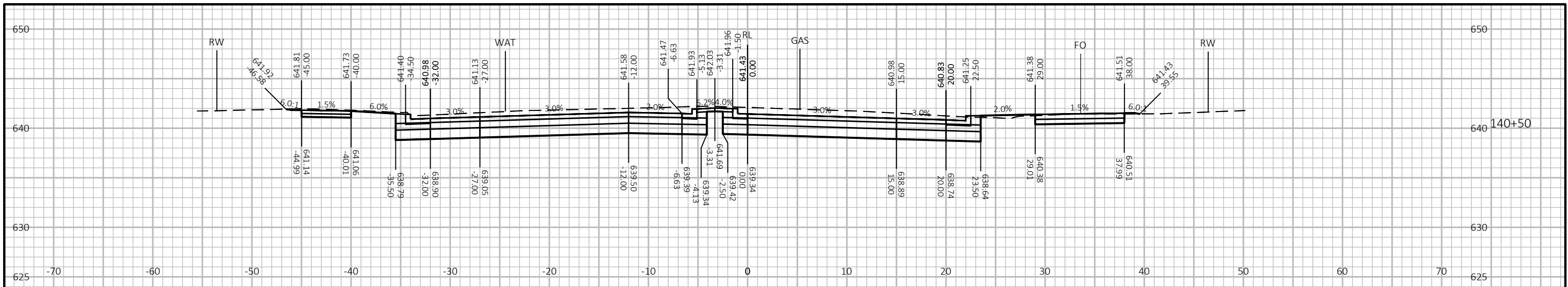
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PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 168 of 207 E

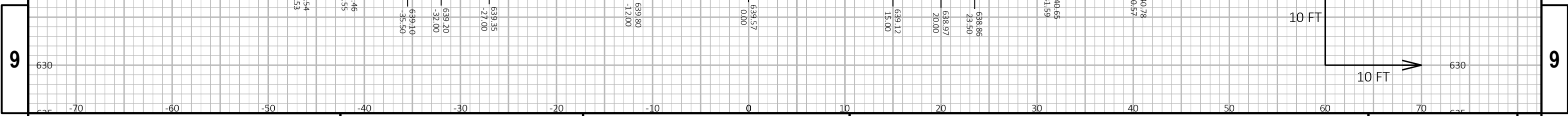
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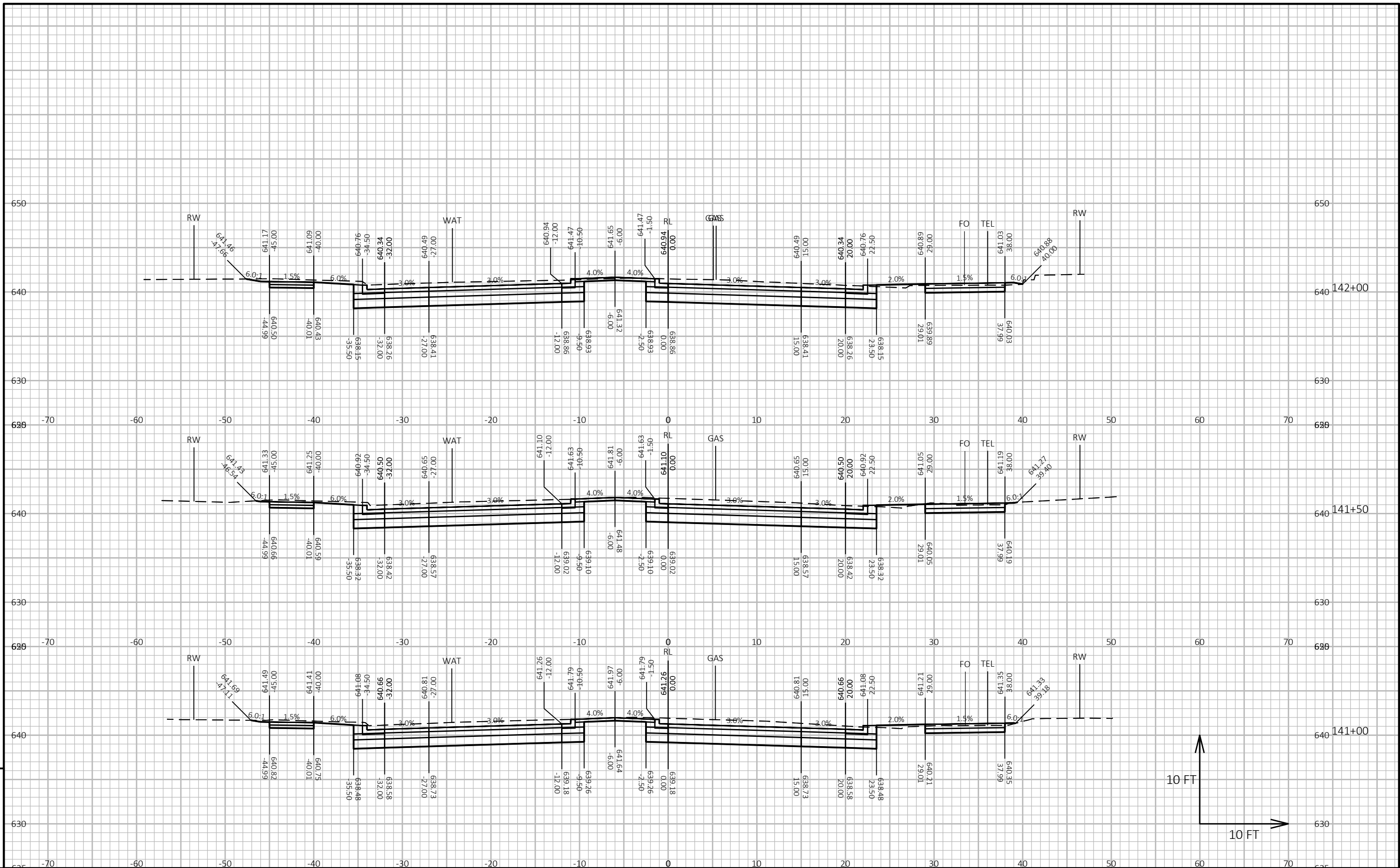




PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 170 of 207 E

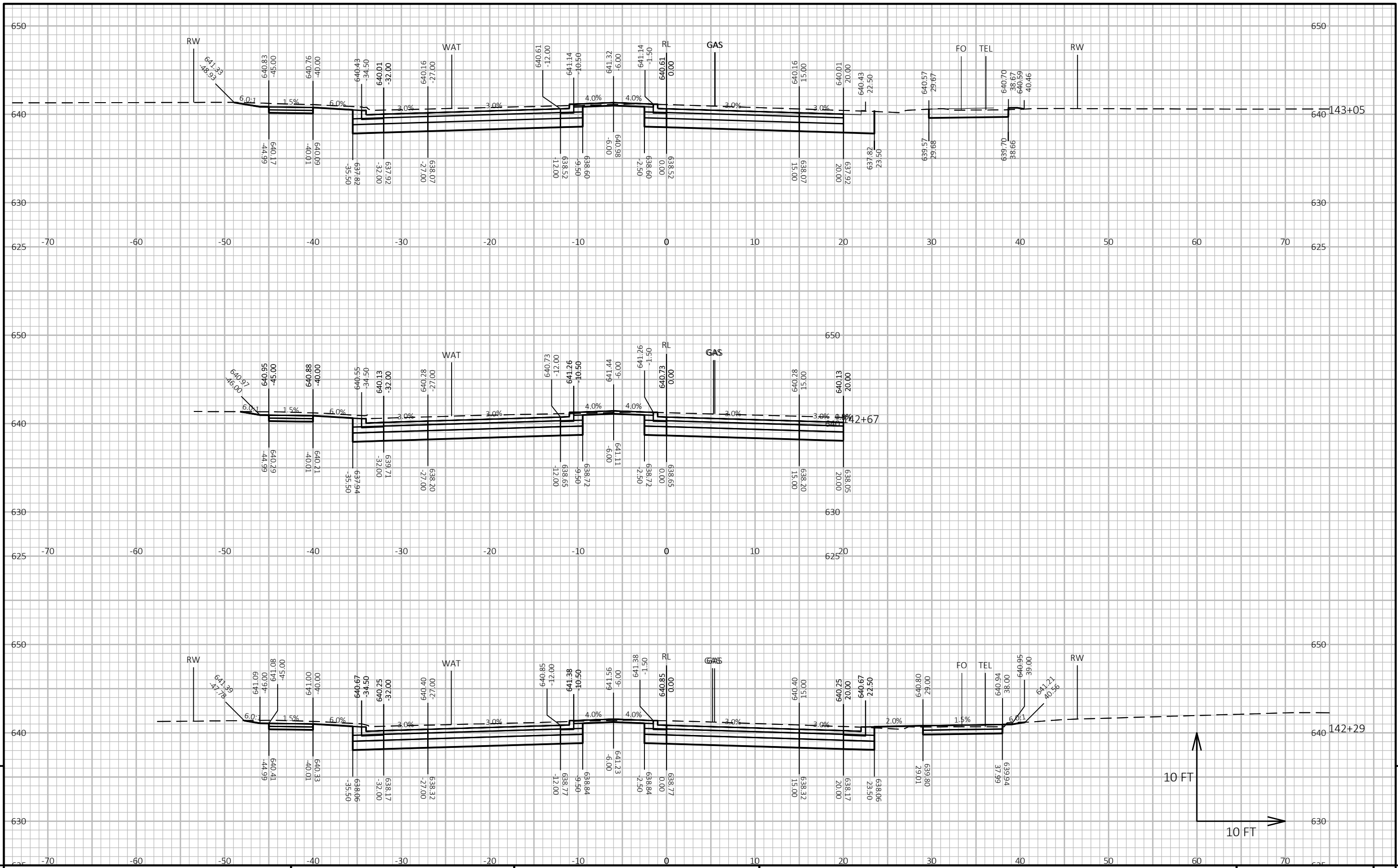
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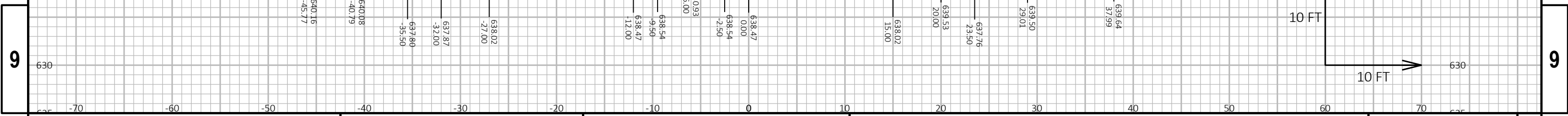
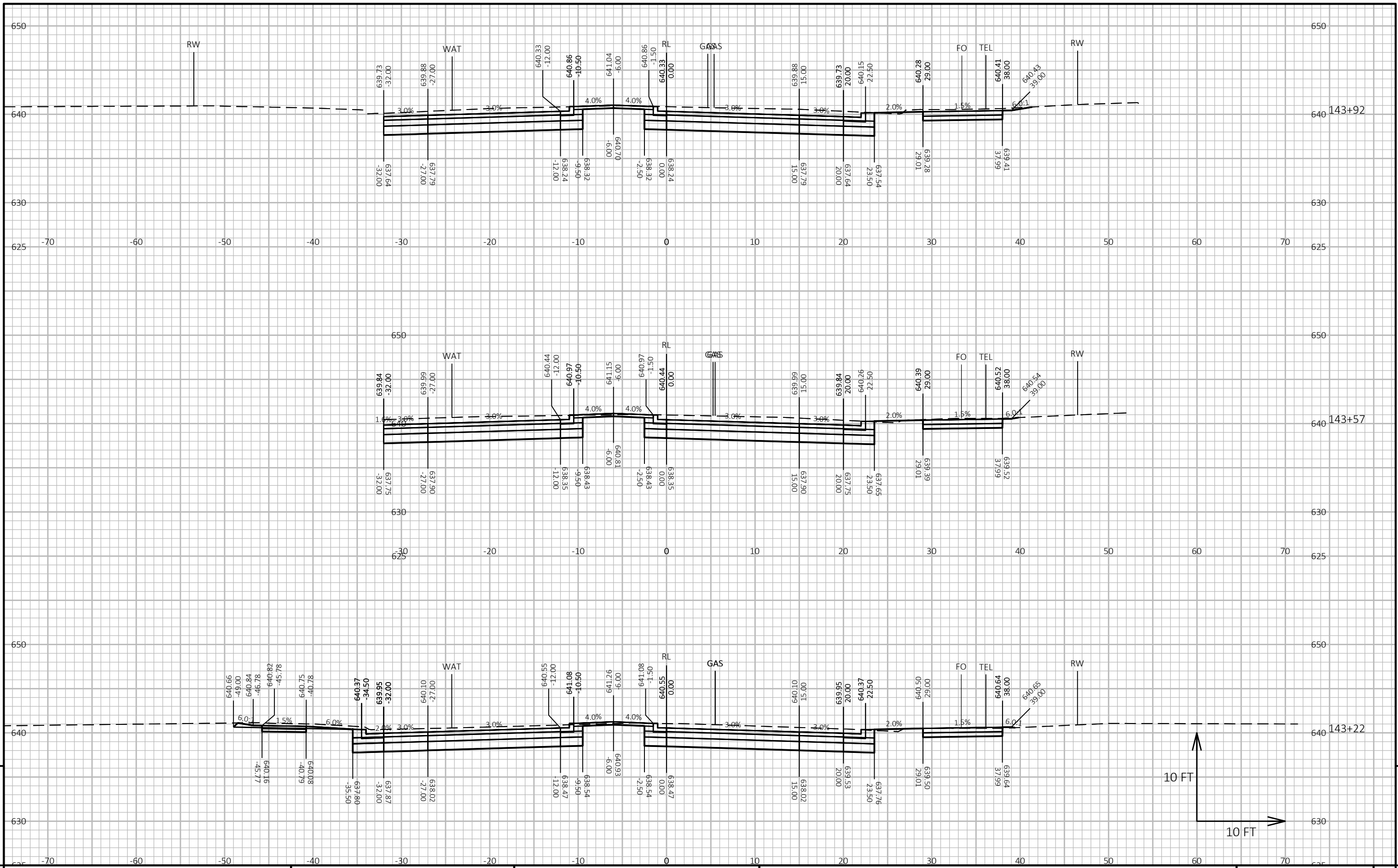


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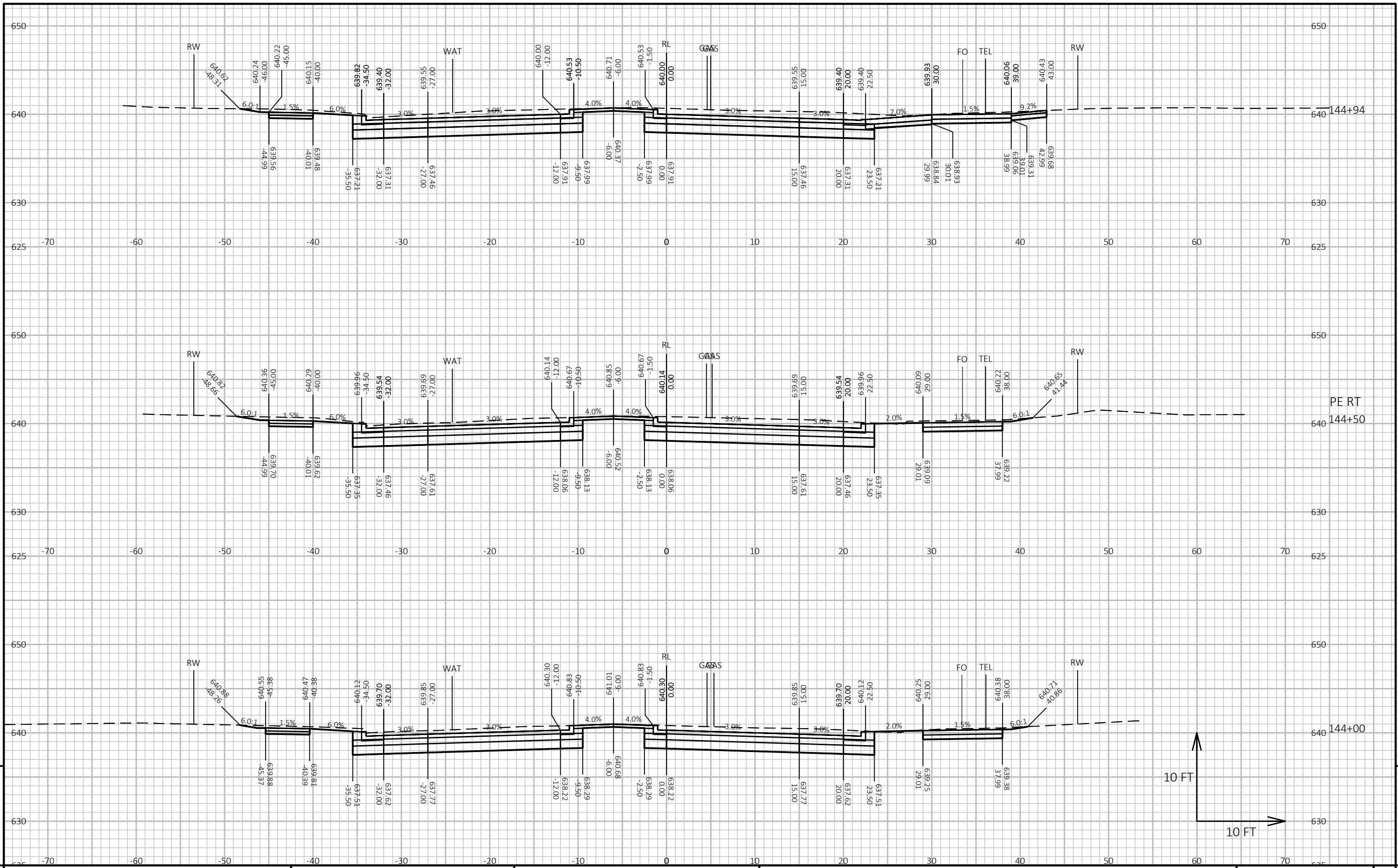
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PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 173 of 207 E

FILE NAME: X:\PT\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090201_XS.DWG PLOT DATE: 11/17/2023 2:02 PM PLOT BY: ANNIE JEROME PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 15

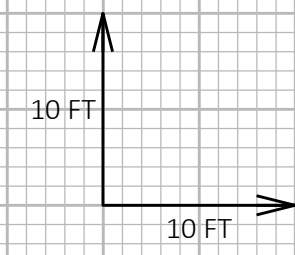


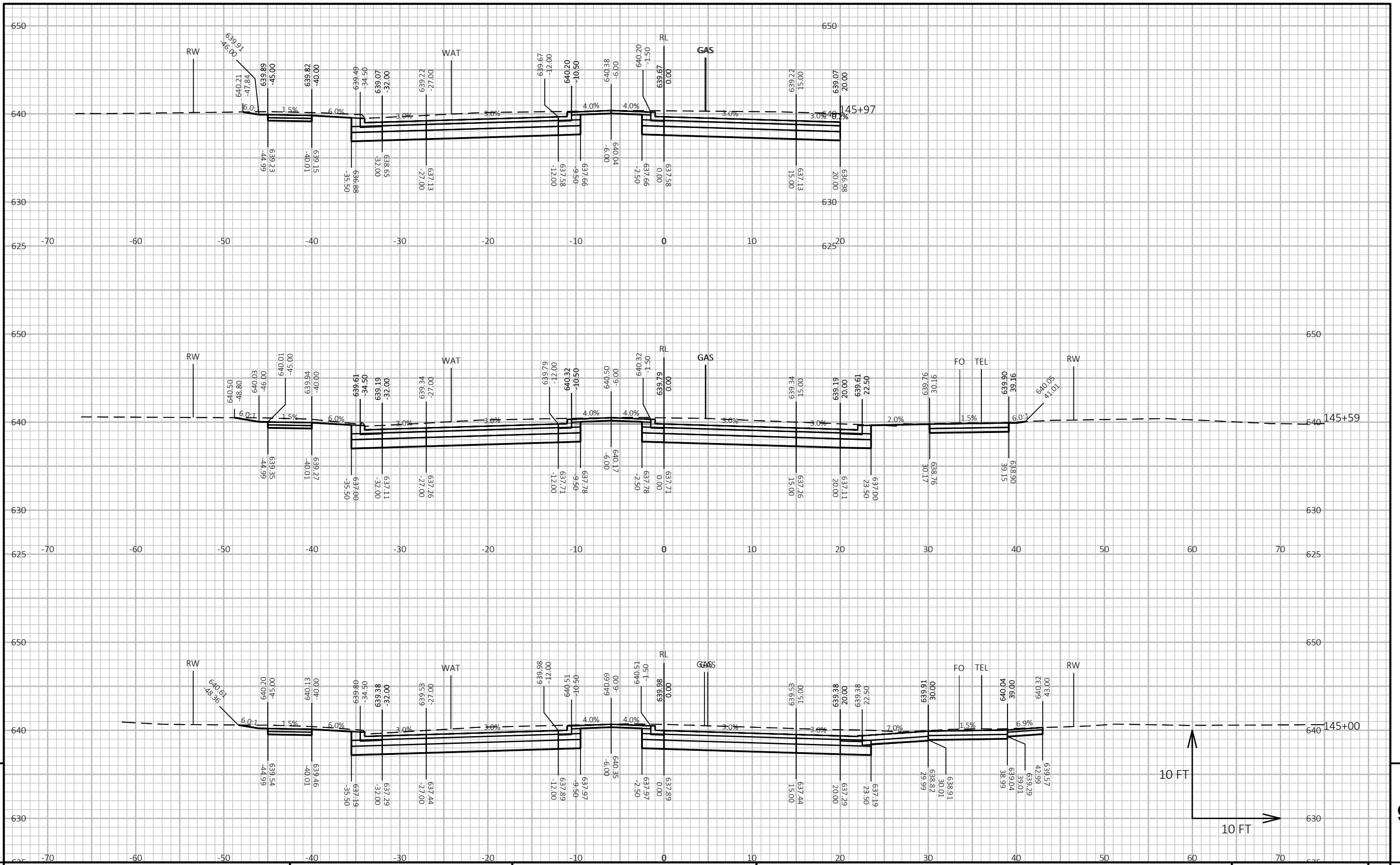
PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 174 of 207 E

FILE NAME : X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETS\PLAN\090201_XS.DWG PLOT DATE : 11/17/2023 2:02 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

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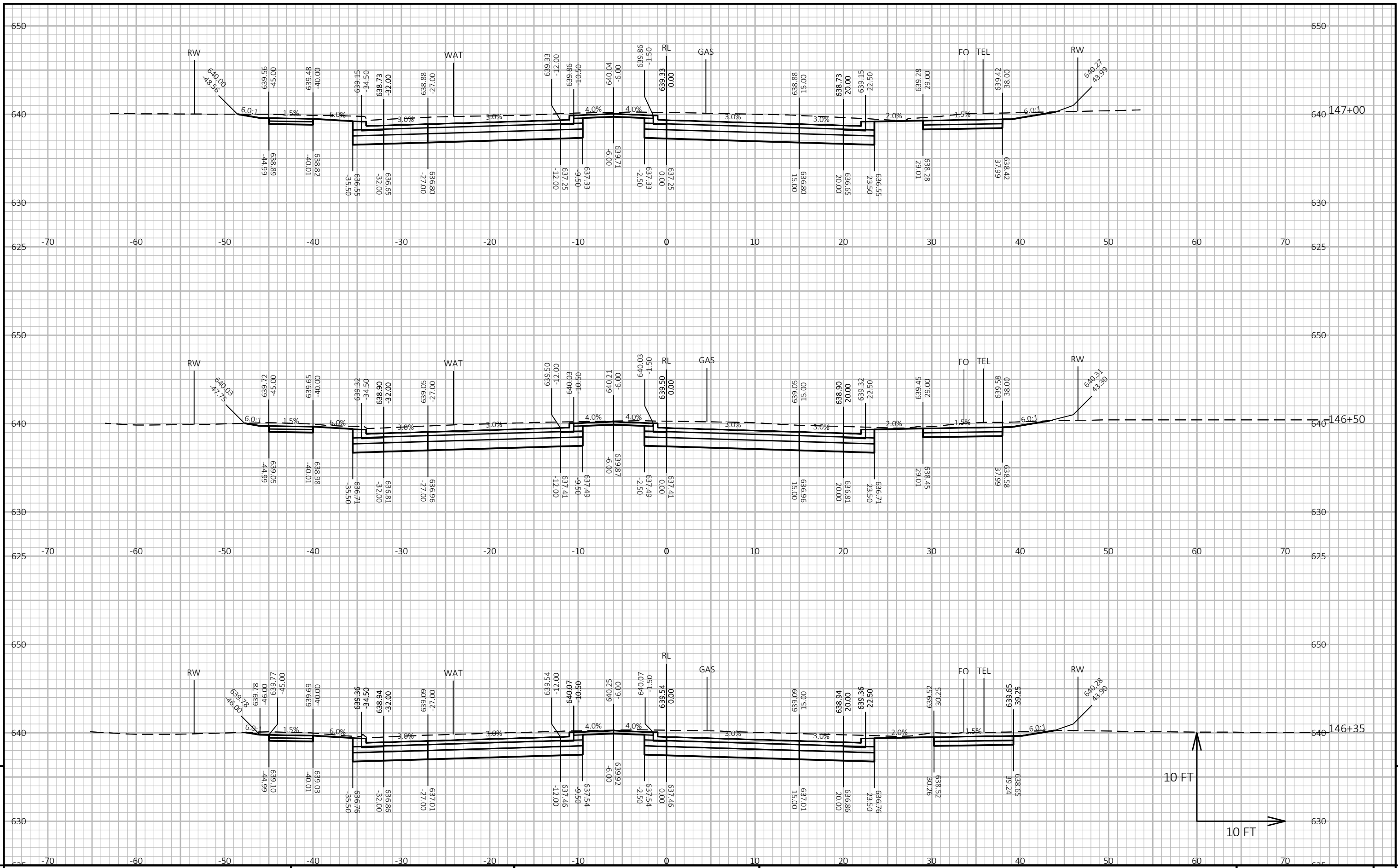
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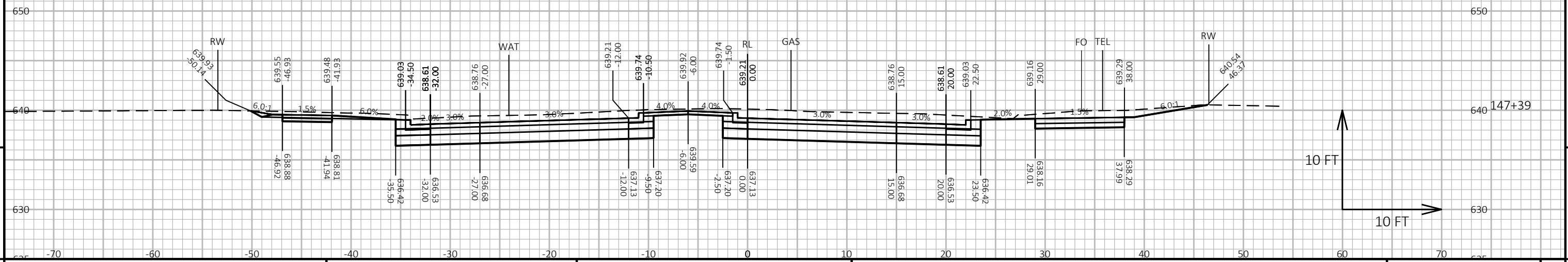
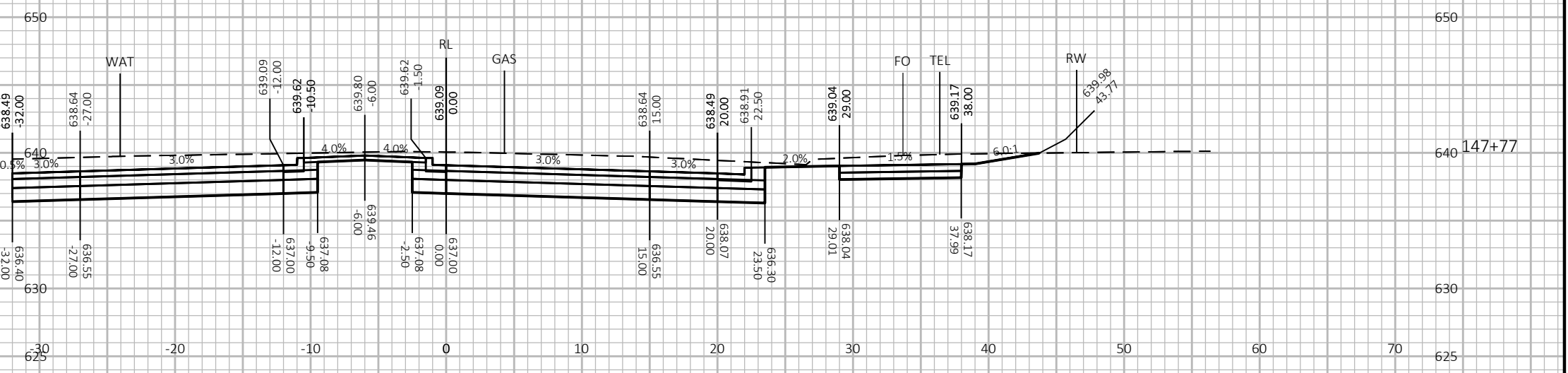
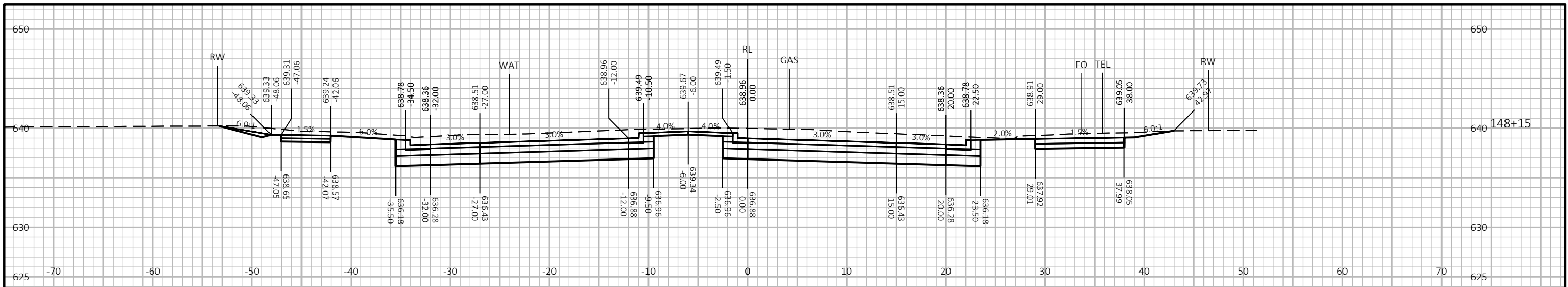
PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 175 of 207 E

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PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 176 of 207 E

FILE NAME: X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090201_XS.DWG PLOT DATE: 11/17/2023 2:03 PM PLOT BY: ANNIE JEROME PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49



PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 177 of 207 E

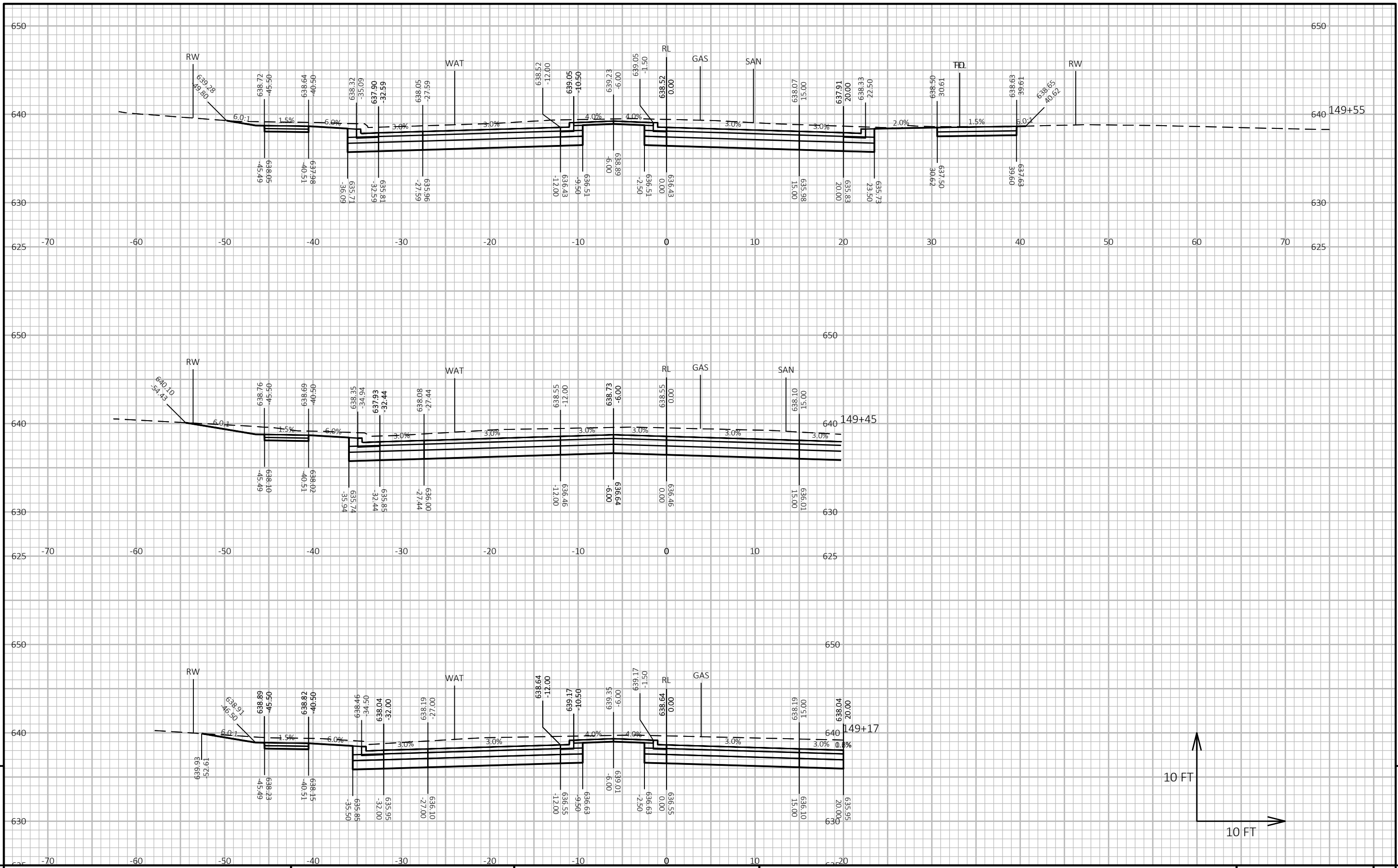
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PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 178 of 207 E

FILE NAME: X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090201_XS.DWG PLOT DATE: 11/17/2023 2:03 PM PLOT BY: ANNIE JEROME PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 20

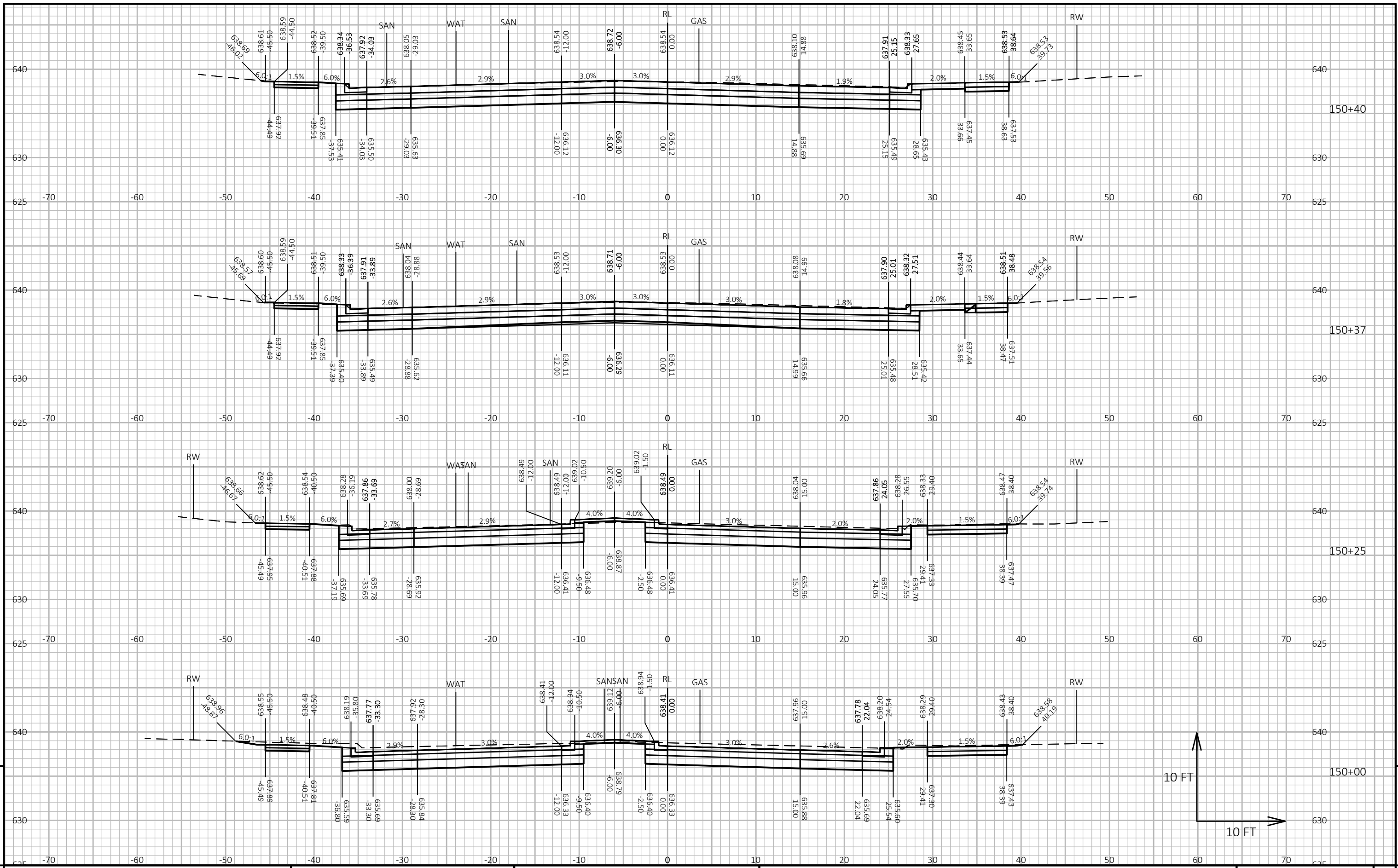


PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 179 of 207 E

FILE NAME : X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090201_XS.DWG PLOT DATE : 11/17/2023 2:03 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

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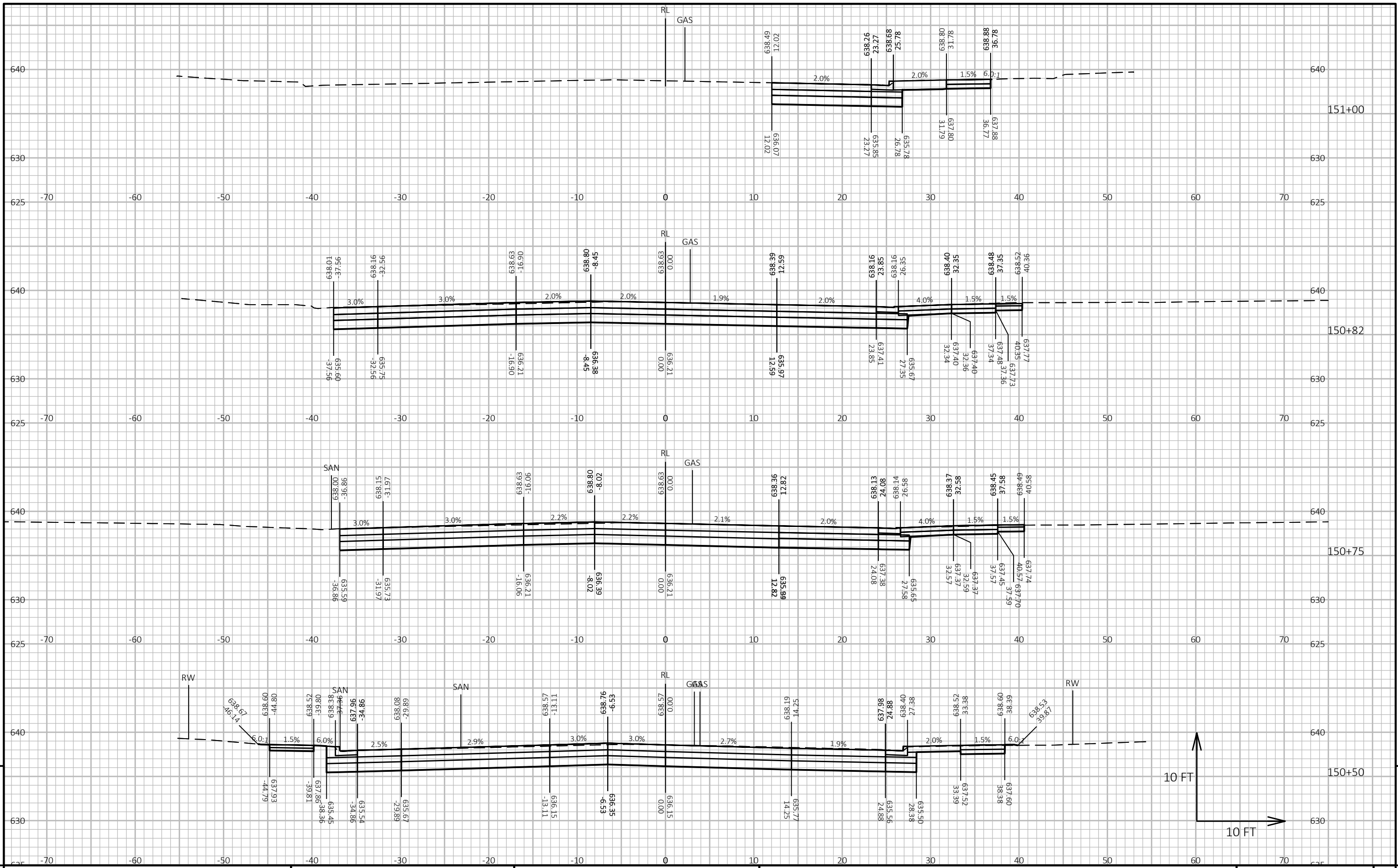
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PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 180 of 207 E

FILE NAME : X:\PT\SUPER\163728\5-FINAL-DSGN\C3D\89980036\3\SHEETSPLAN\090201_XS.DWG PLOT DATE : 11/17/2023 2:04 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 22

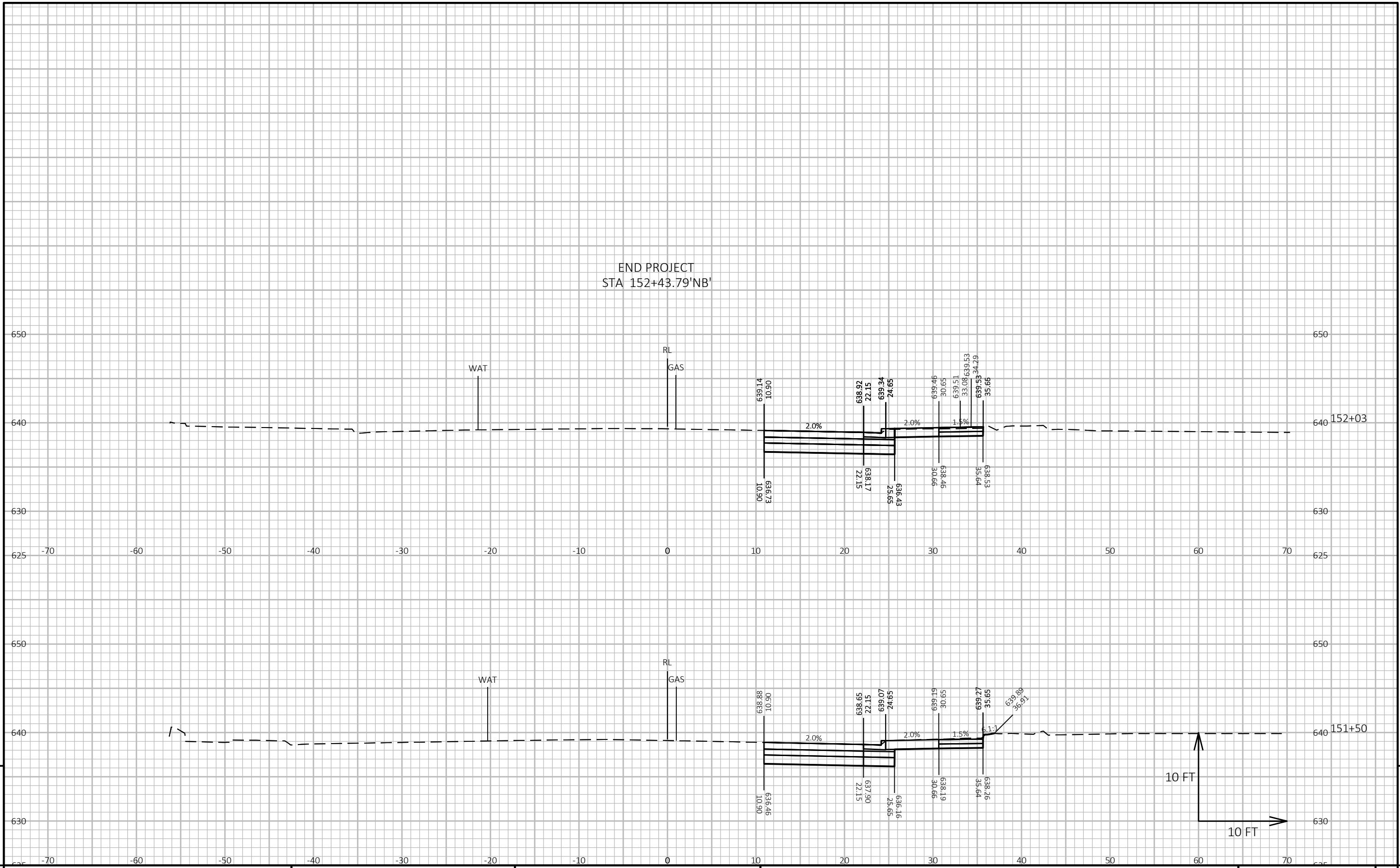


PROJECT NO: HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HAMMOND AVENUE SHEET Page 181 of 207 E

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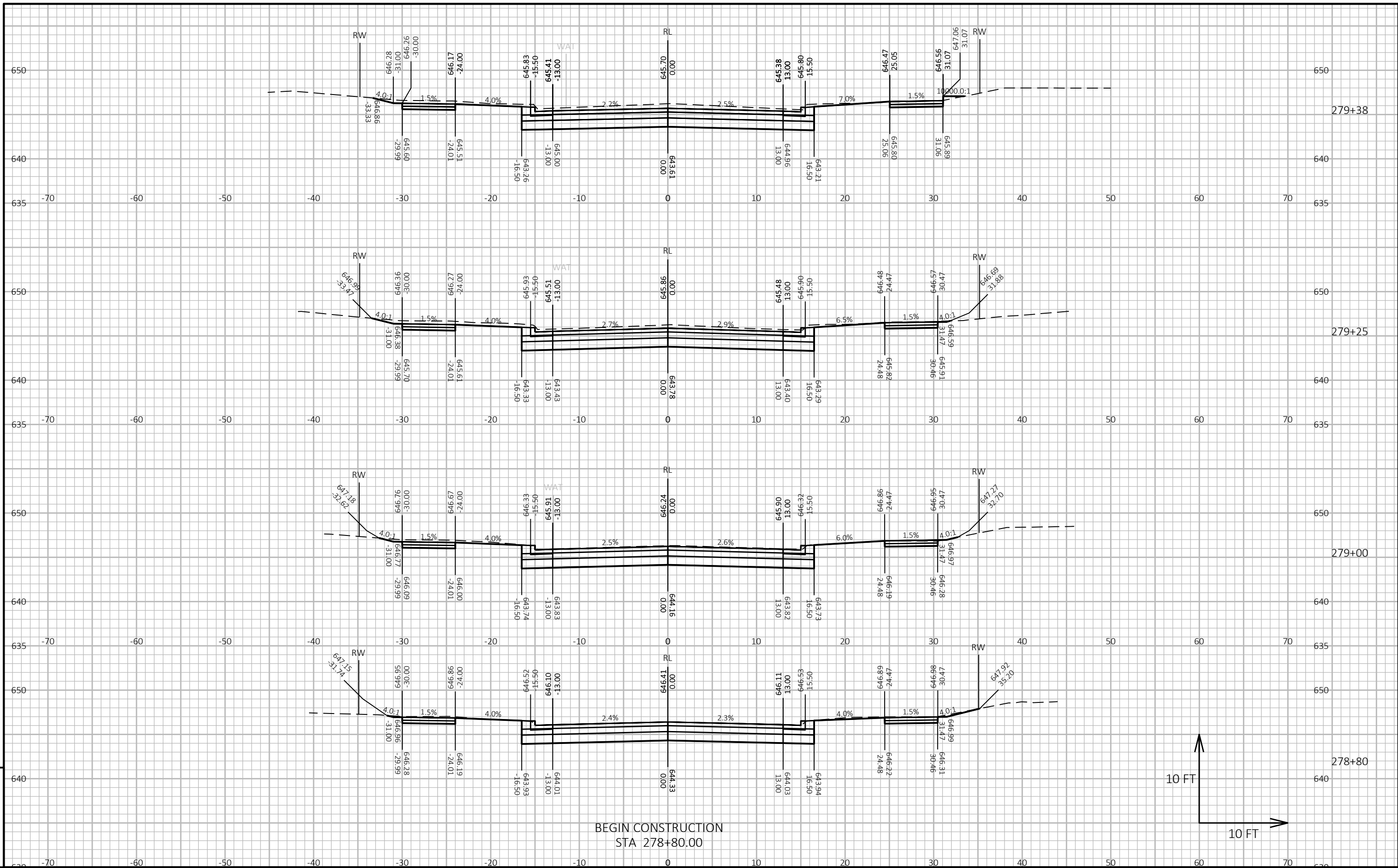
LAYOUT NAME - 23

END PROJECT
STA 152+43.79'NB'

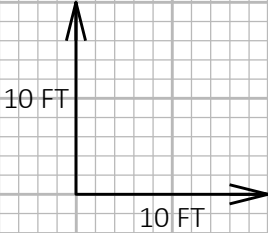


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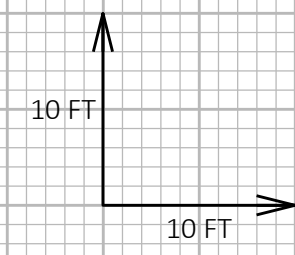
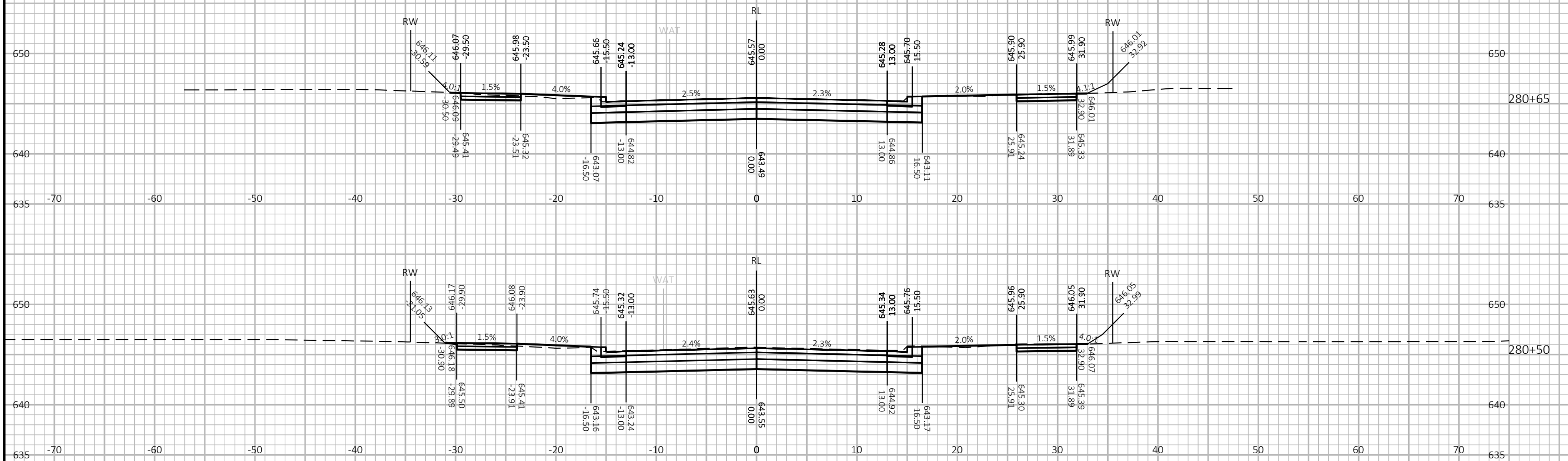


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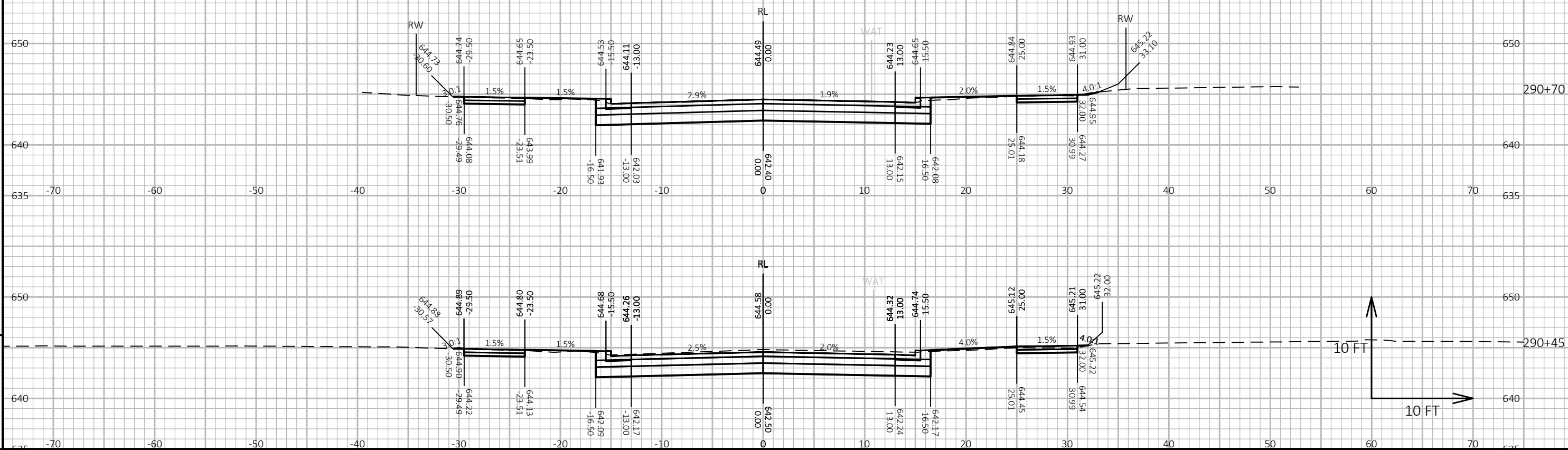
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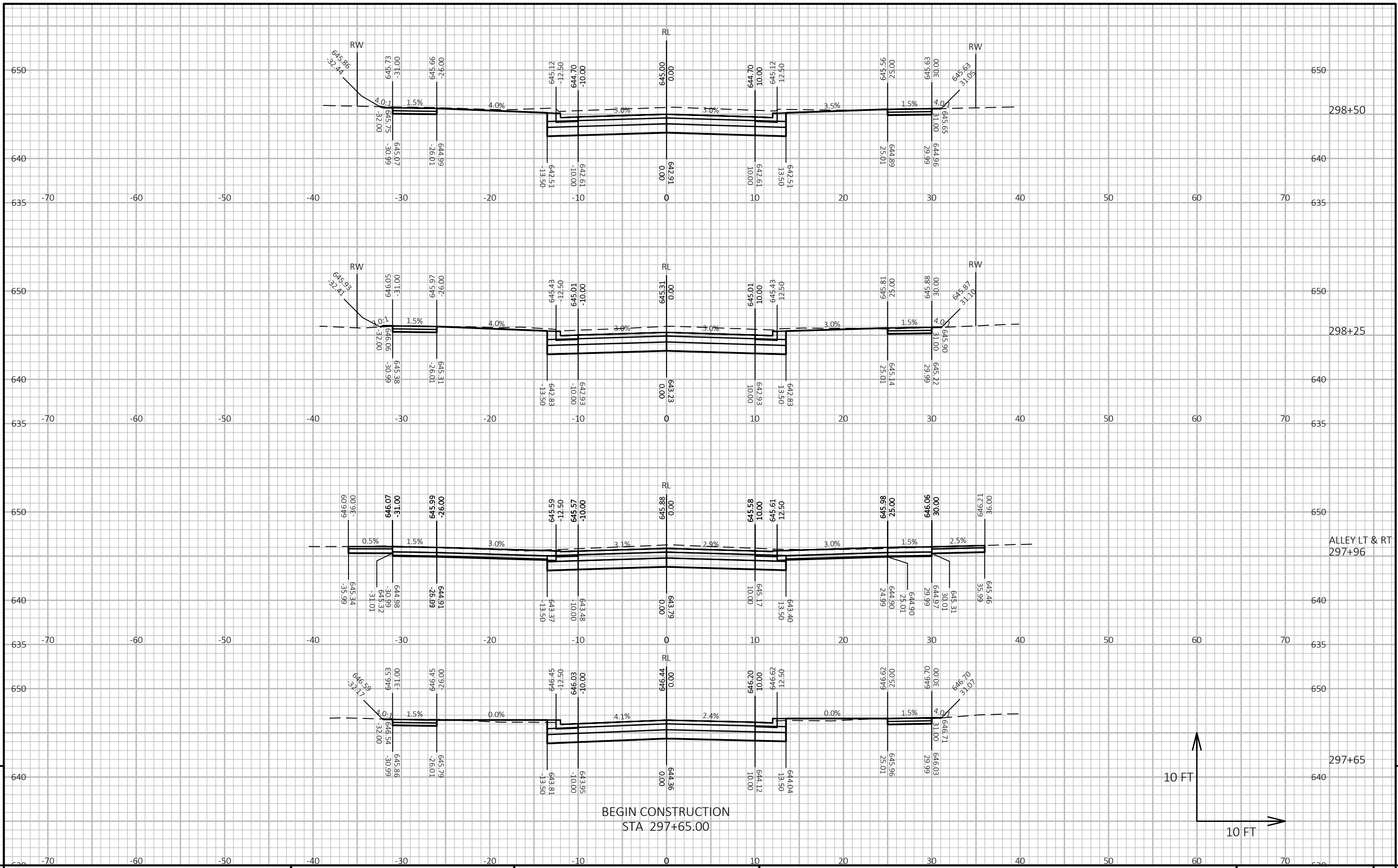


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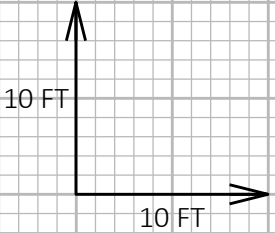
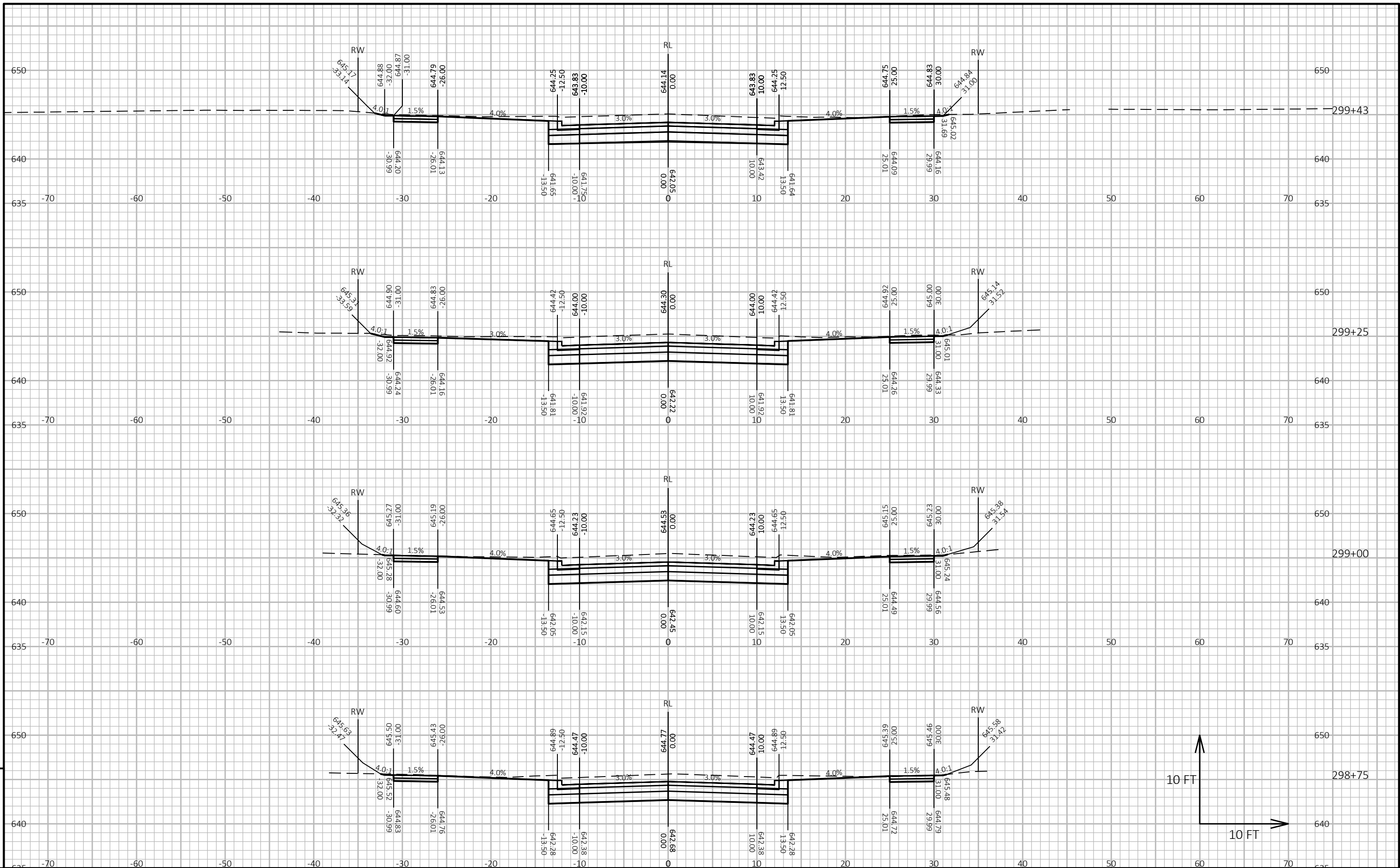
END CONSTRUCTION
STA 290+70.00





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PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 20TH STREET SHEET Page 187 of 207 E

FILE NAME : X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090202_XS.DWG
LAYOUT NAME - 2N 20TH STREET

PLOT DATE : 11/17/2023 2:41 PM

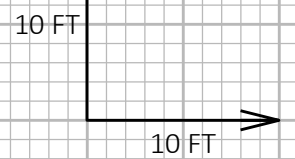
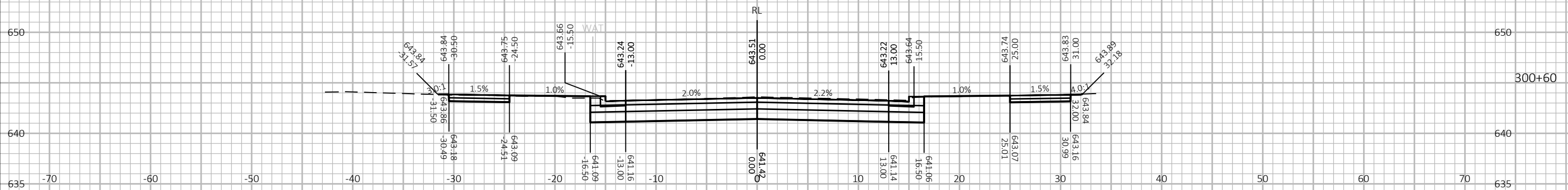
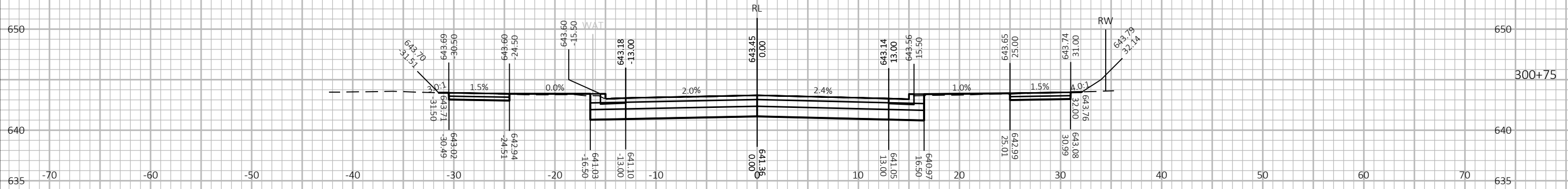
PLOT BY : ANNIE JEROME

PLOT NAME :

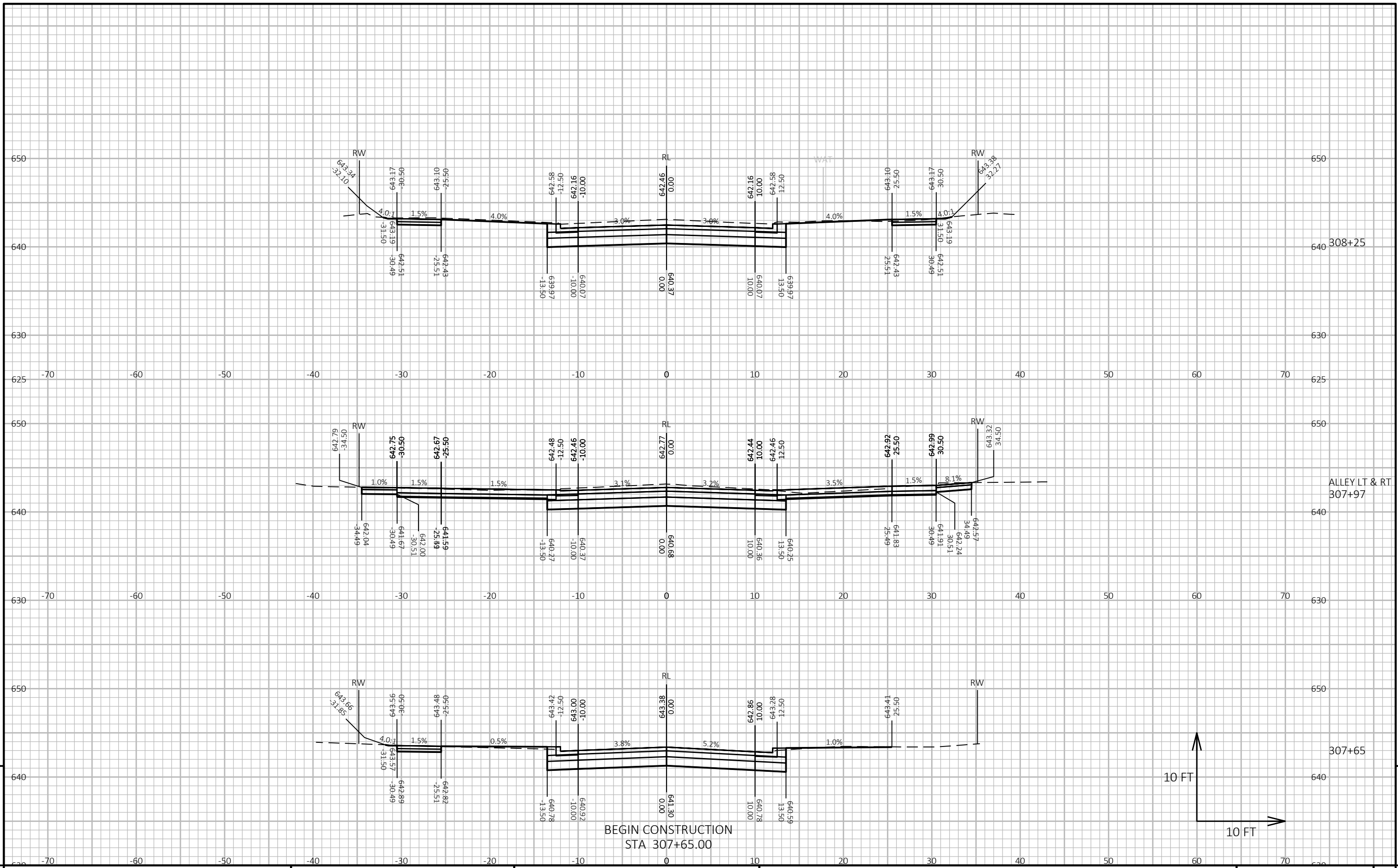
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADD SHEET 49

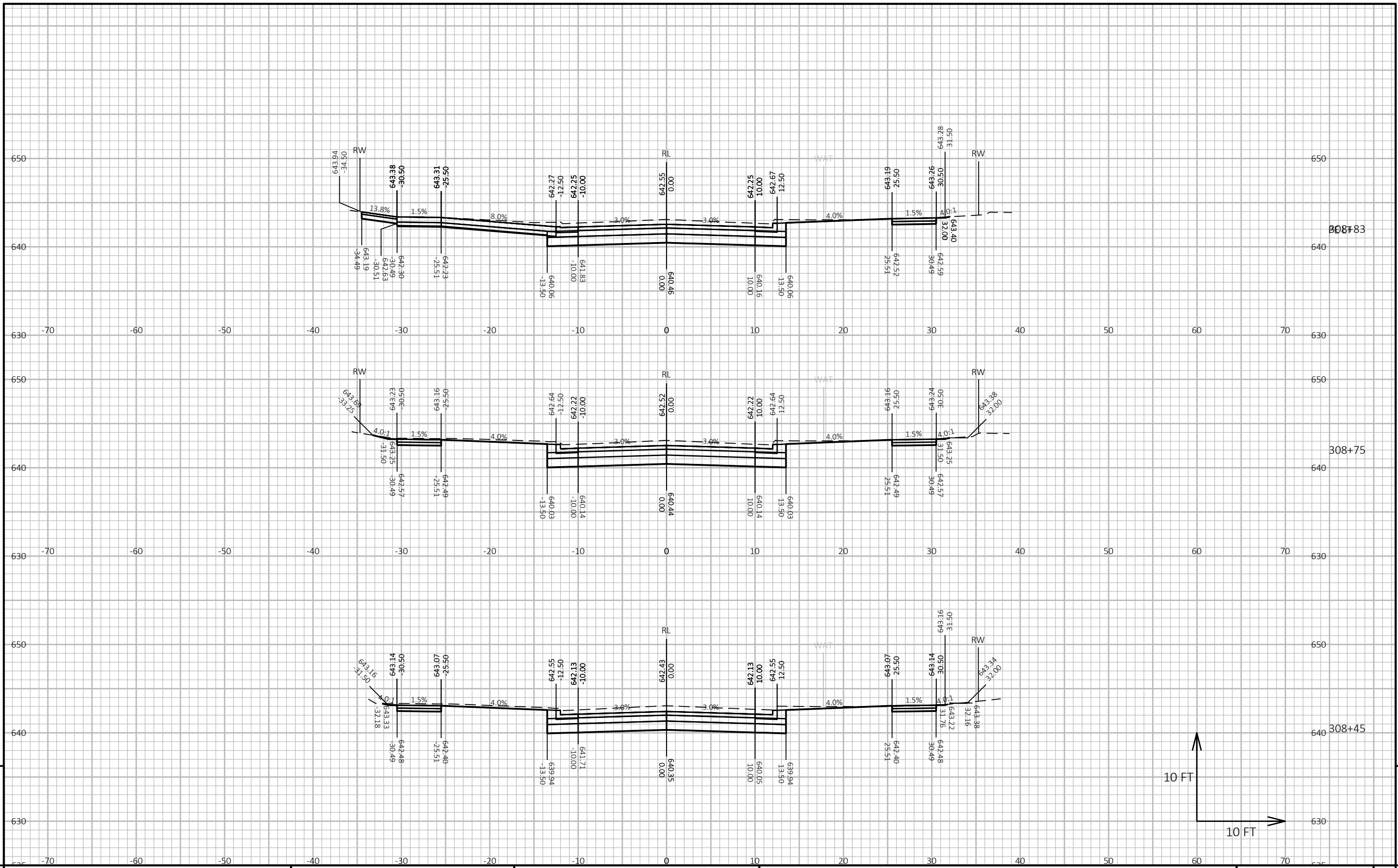
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STA 300+75.00



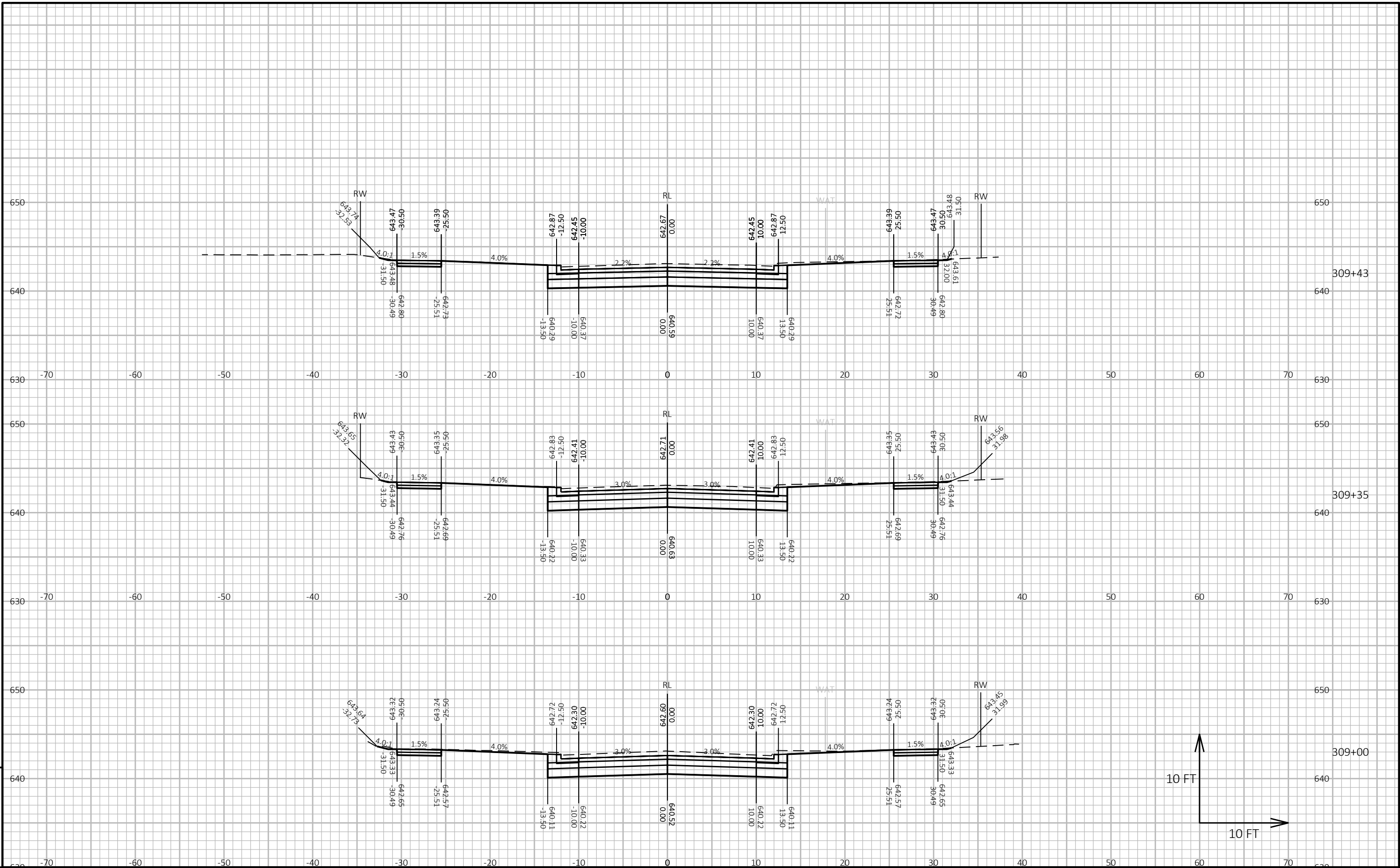
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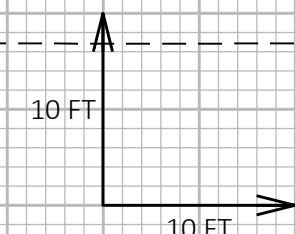
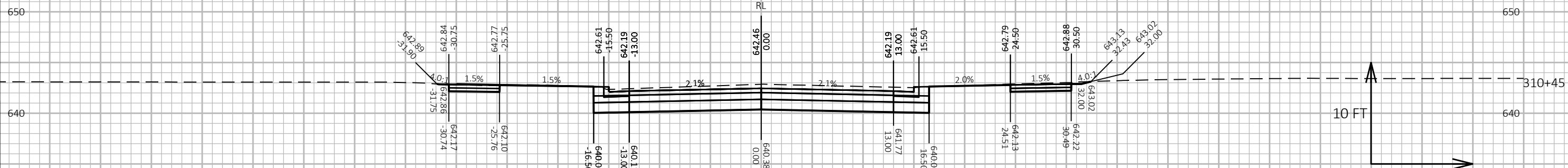
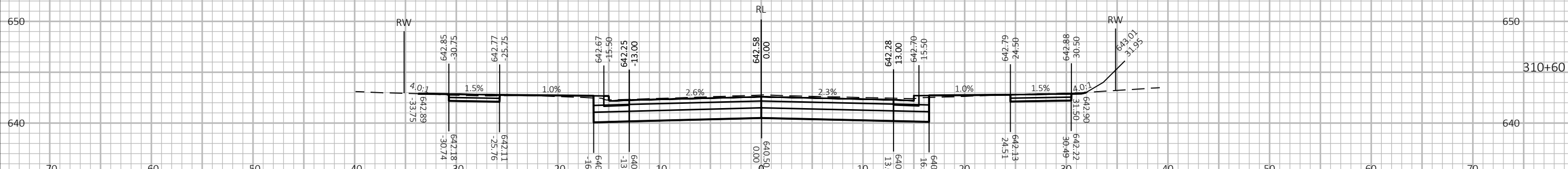
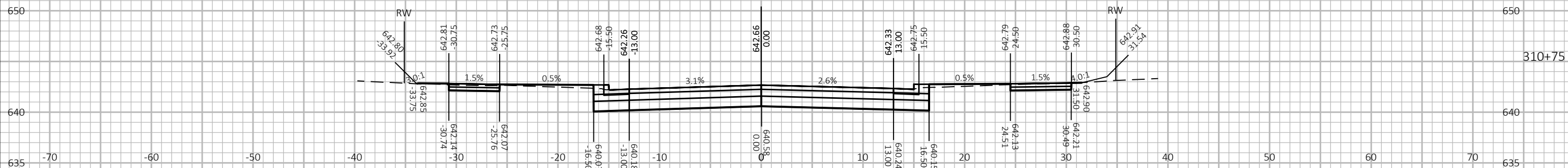
PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 19TH STREET SHEET Page 189 of 207 E

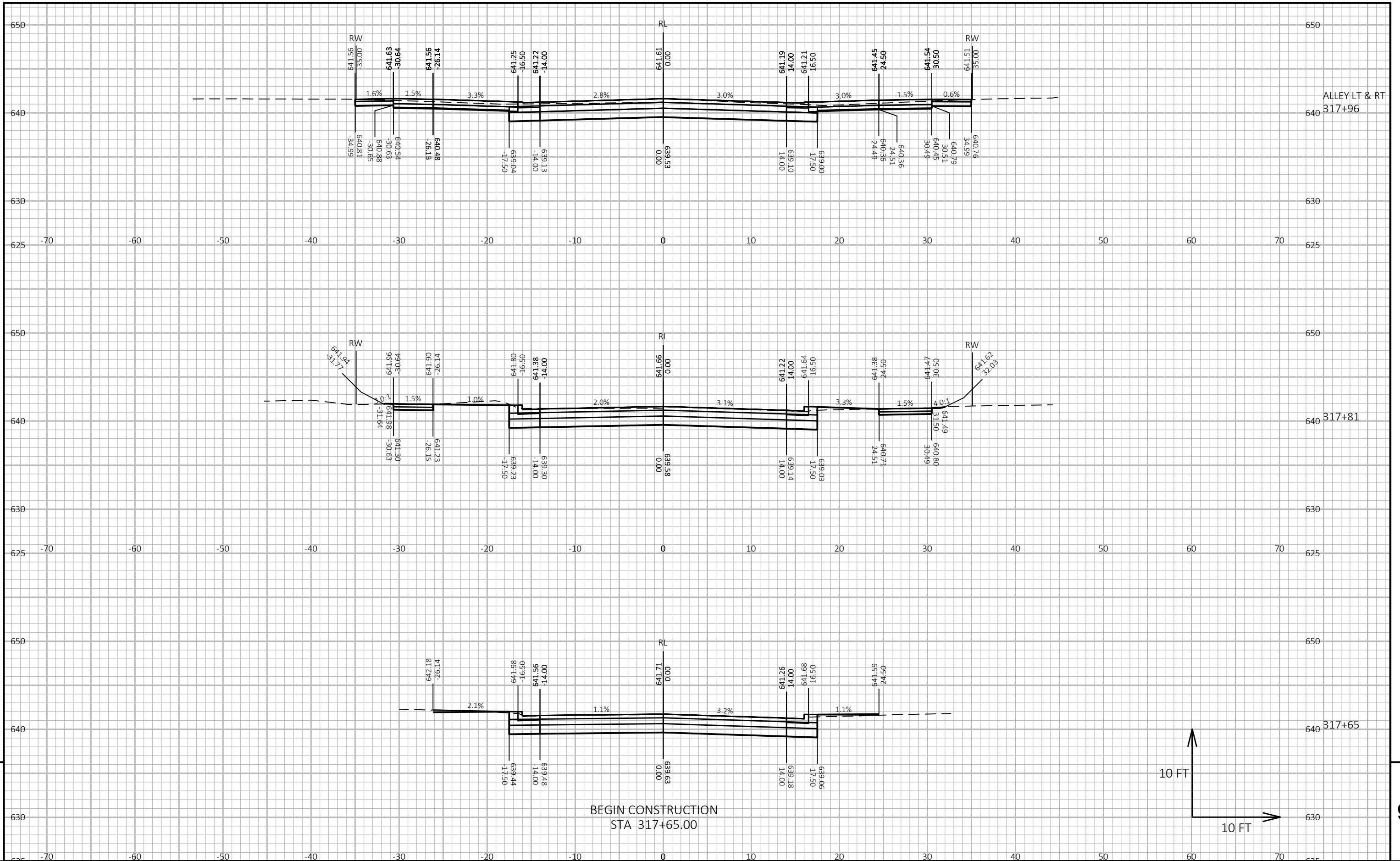


PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 19TH STREET SHEET Page 190 of 207 E

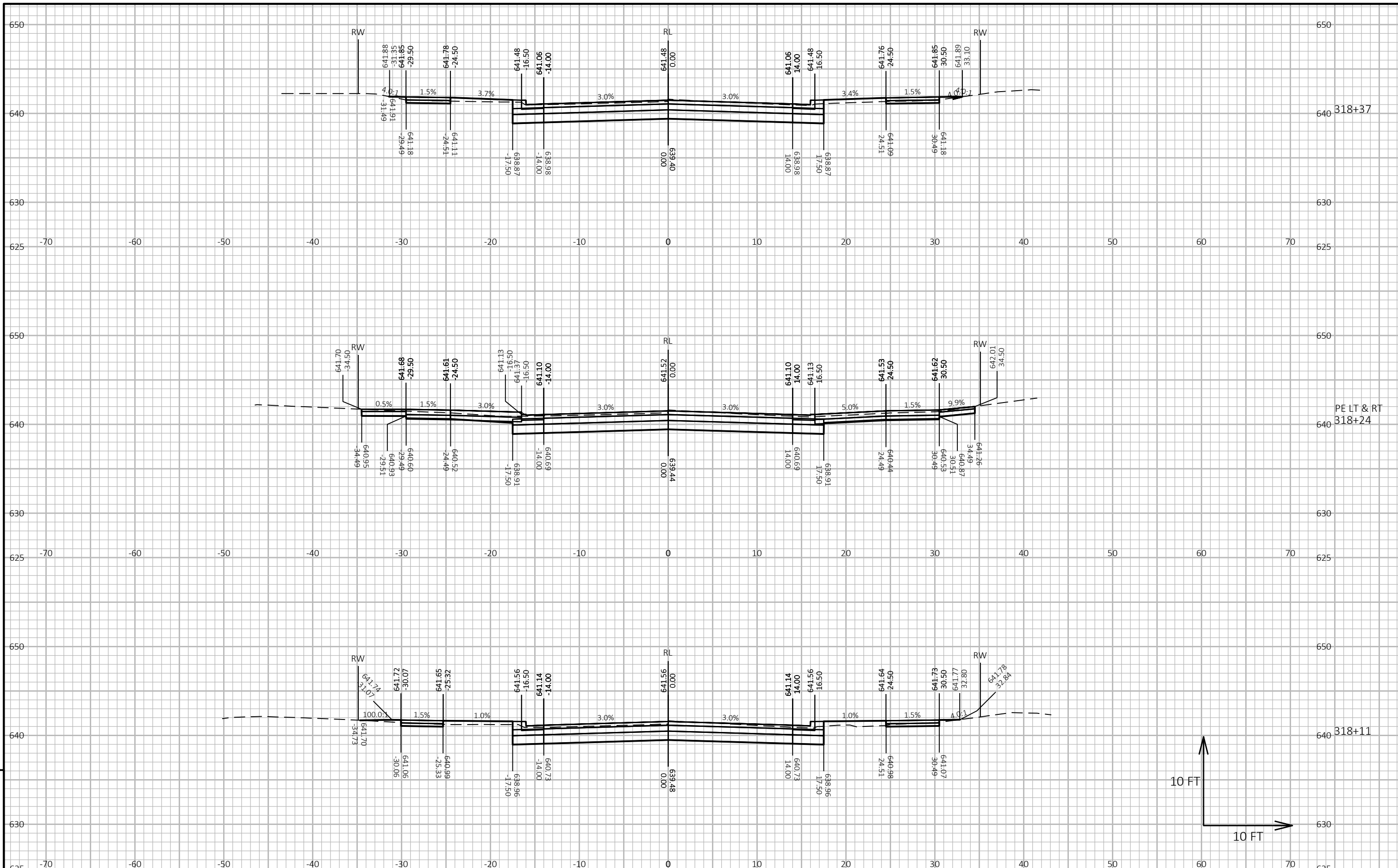


END CONSTRUCTION
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PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 18TH STREET SHEET Page 193 of 207 E



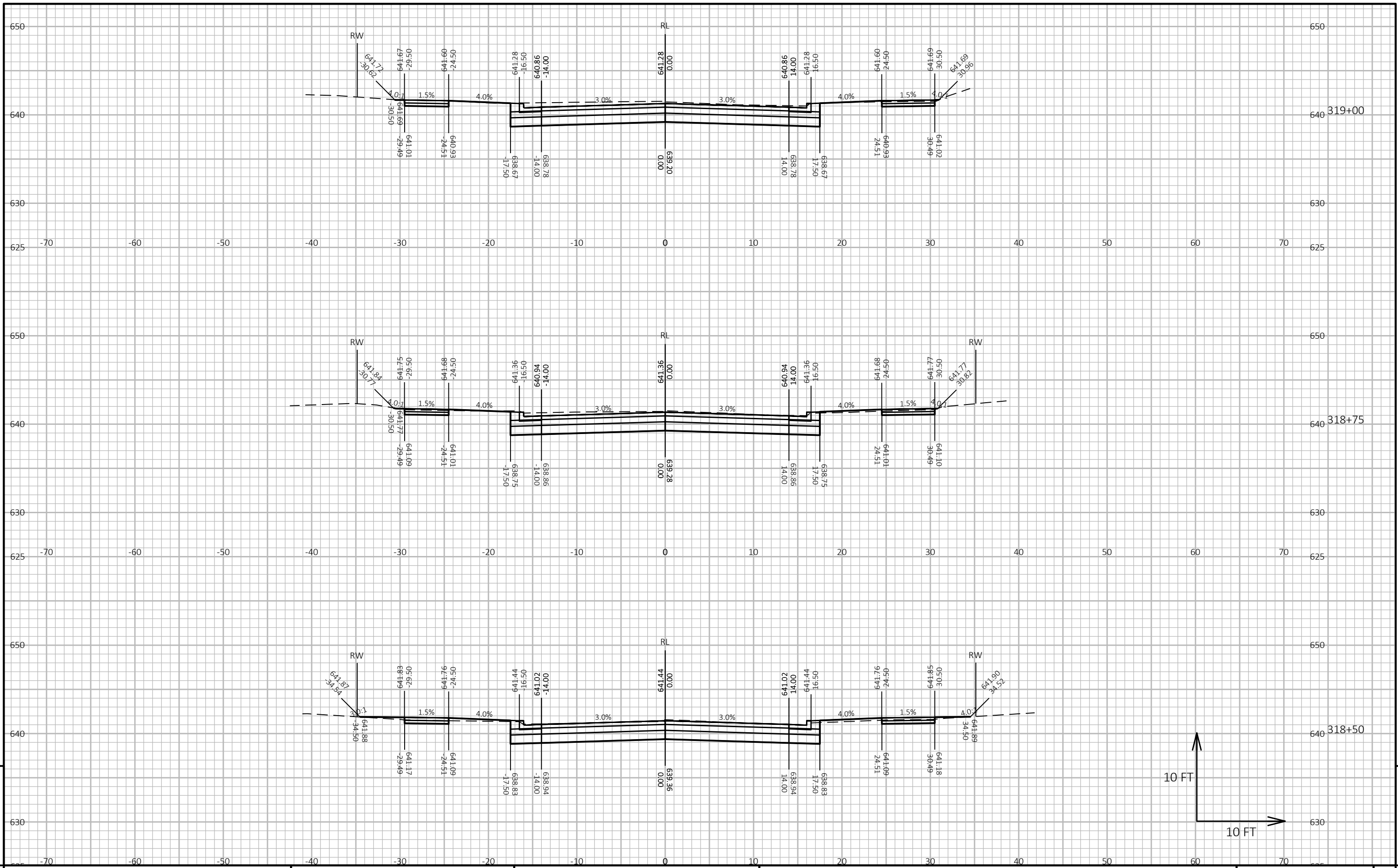
PROJECT NO: ----

HWY: HAMMOND AVE

COUNTY: DOUGLAS

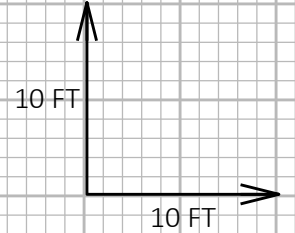
CROSS SECTIONS: N 18TH STREET

SHEET Page 194 of 207



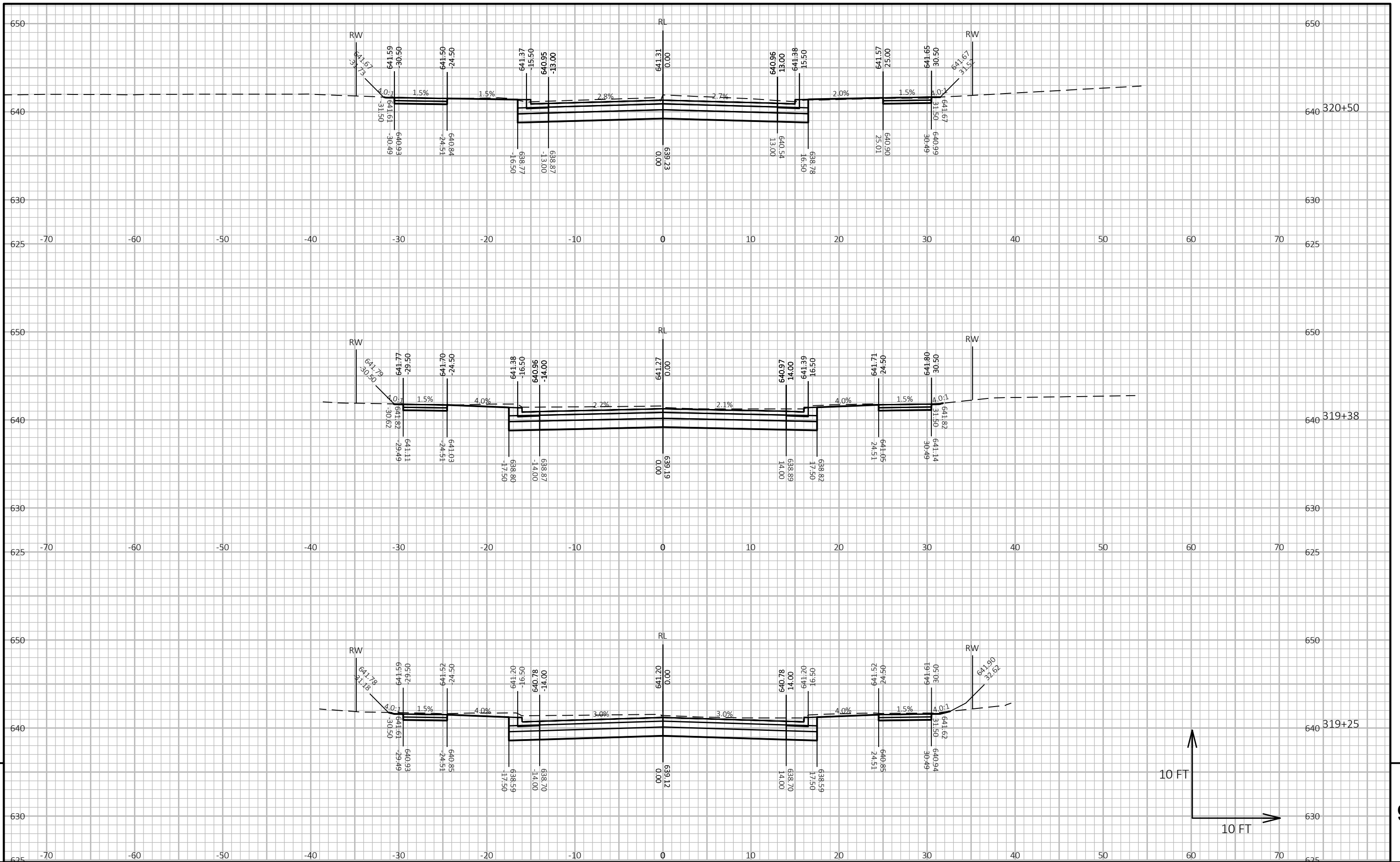
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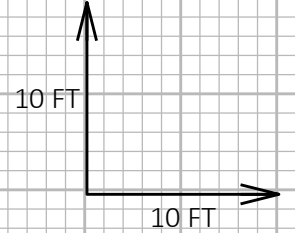
PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 18TH STREET SHEET Page 195 of 207 E

FILE NAME: X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETS\PLAN\090202_XS.DWG PLOT DATE: 11/17/2023 2:41 PM PLOT BY: ANNIE JEROME PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49



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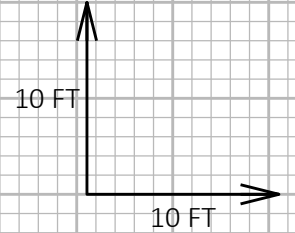
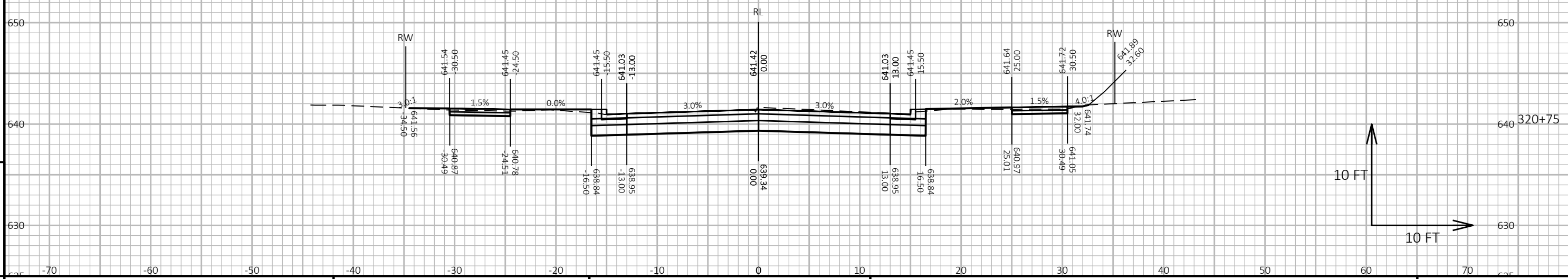
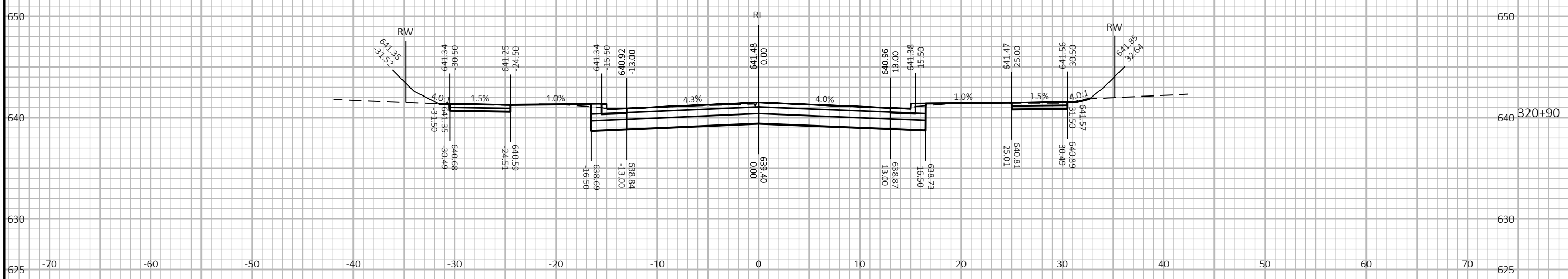
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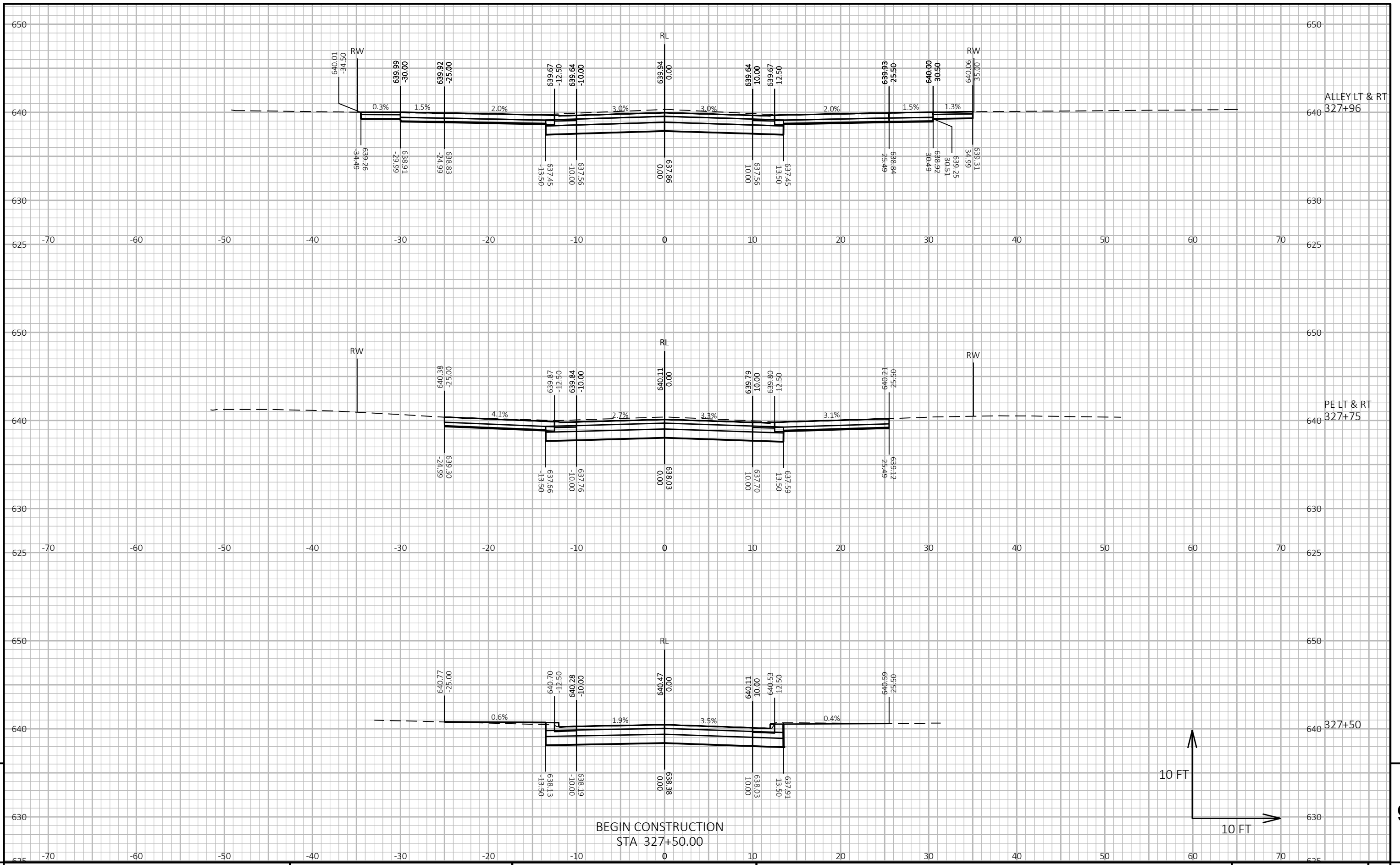


PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 18TH STREET SHEET Page 196 of 207 E

FILE NAME: X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090202_XS.DWG PLOT DATE: 11/17/2023 2:41 PM PLOT BY: ANNIE JEROME PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

END CONSTRUCTION
STA 320+90.00





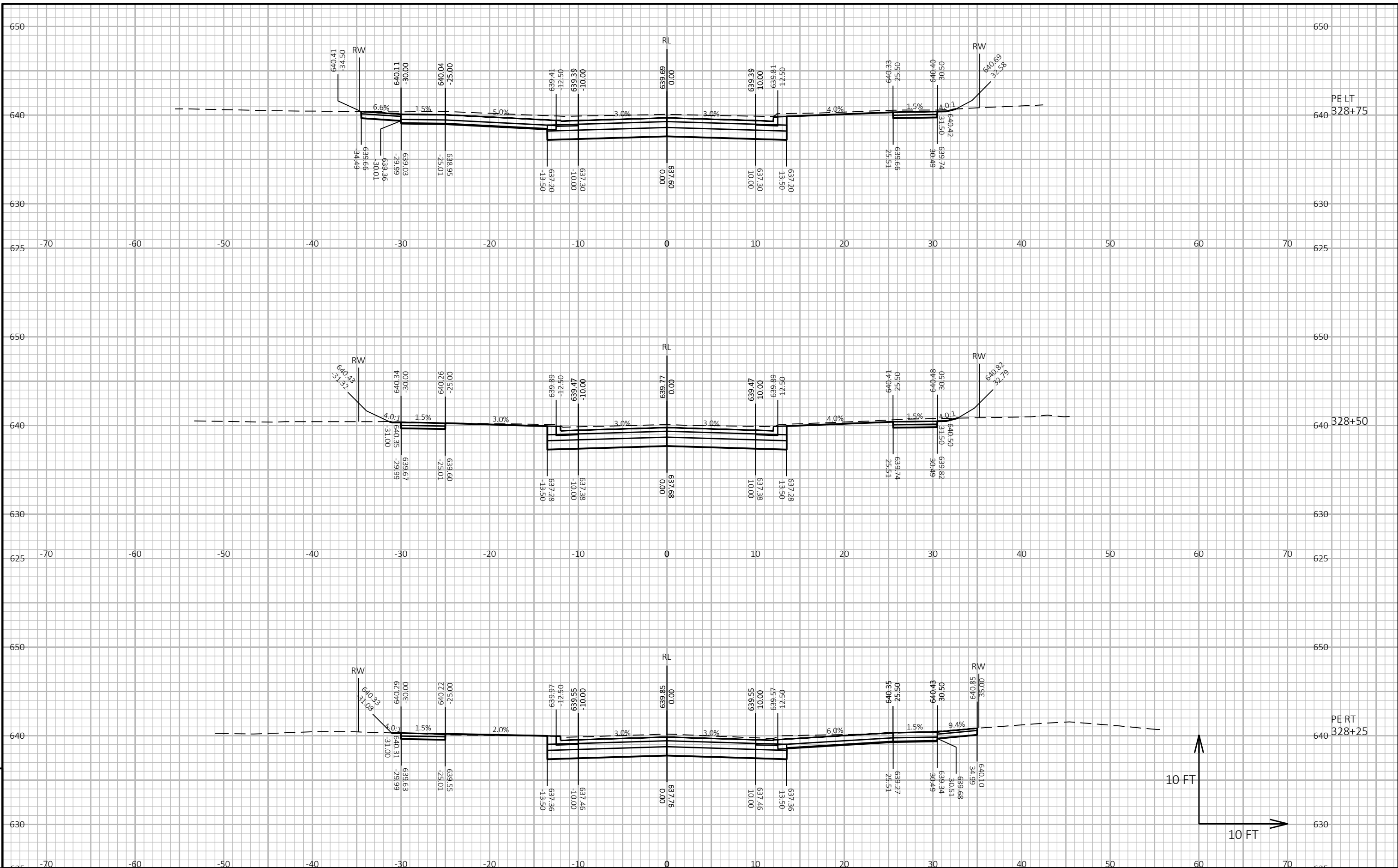
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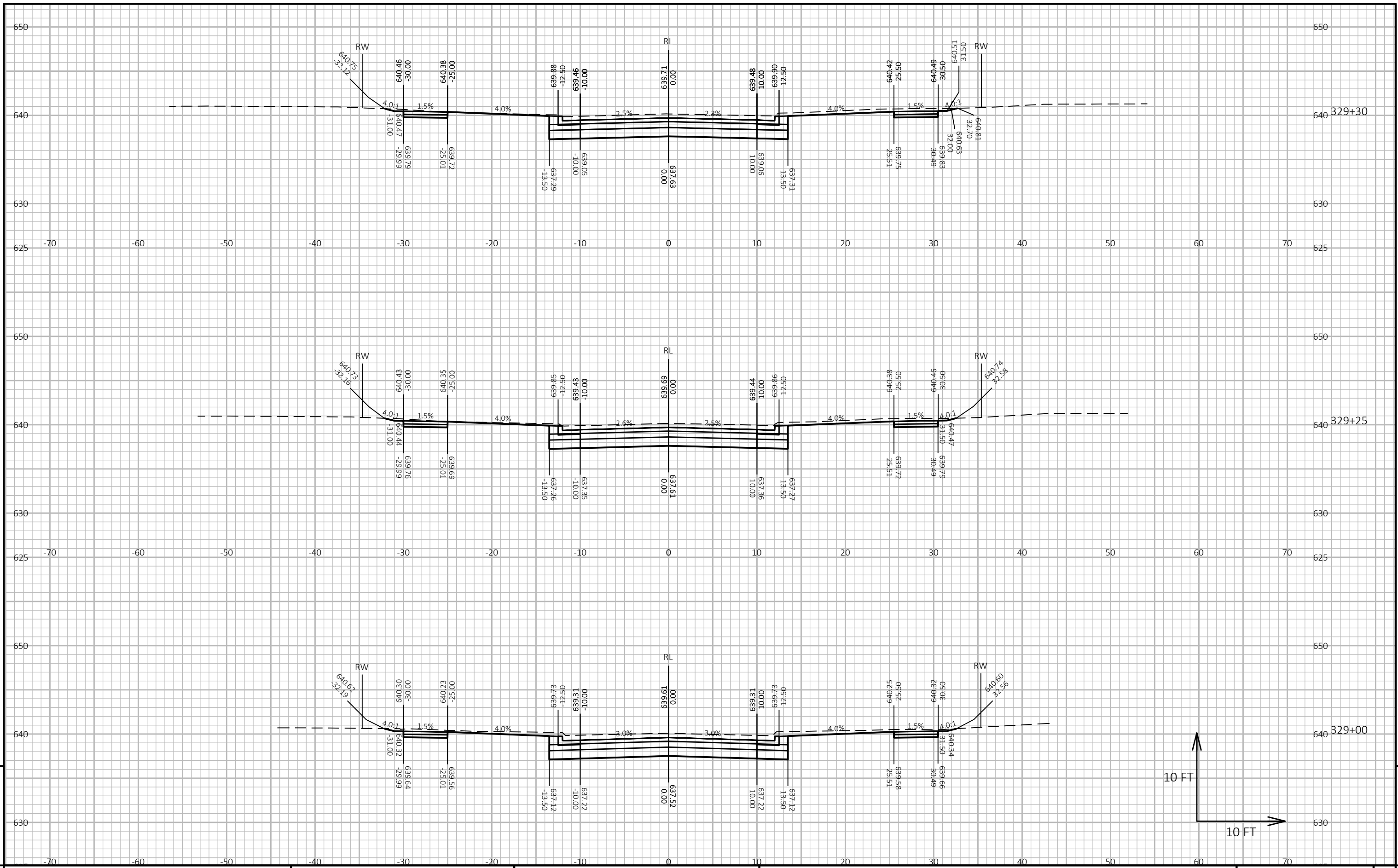
PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 17TH STREET SHEET Page 198 of 207 E

FILE NAME: X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETS\PLAN\090202_XS.DWG PLOT DATE: 11/17/2023 2:42 PM PLOT BY: ANNIE JEROME PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 1N 17TH STREET

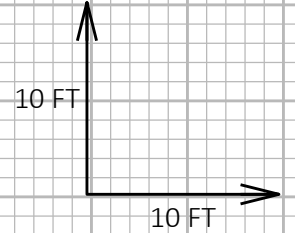


PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 17TH STREET SHEET Page 199 of 207 E



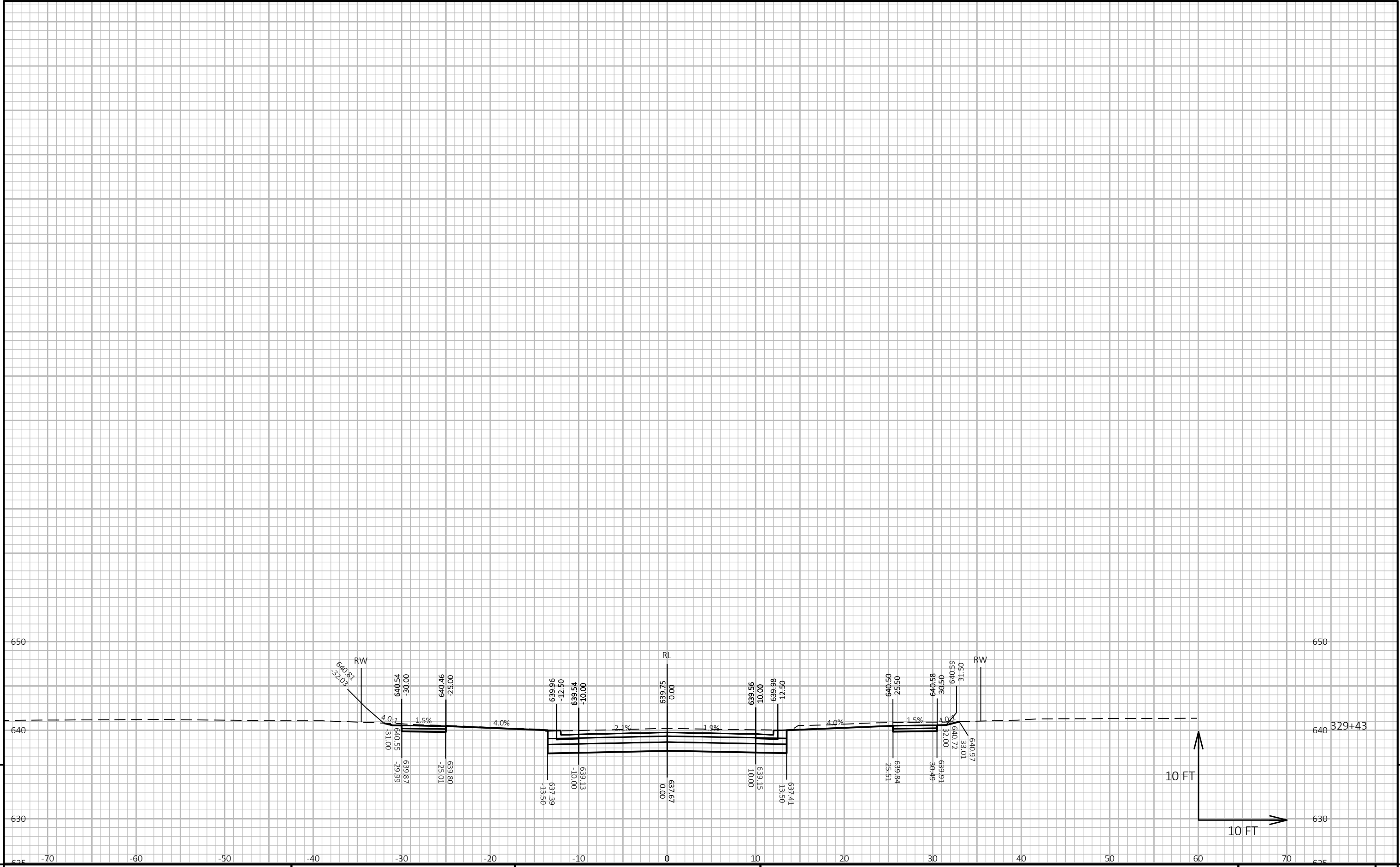
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PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 17TH STREET SHEET Page 200 of 207 E

FILE NAME : X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090202_XS.DWG PLOT DATE : 11/17/2023 2:42 PM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

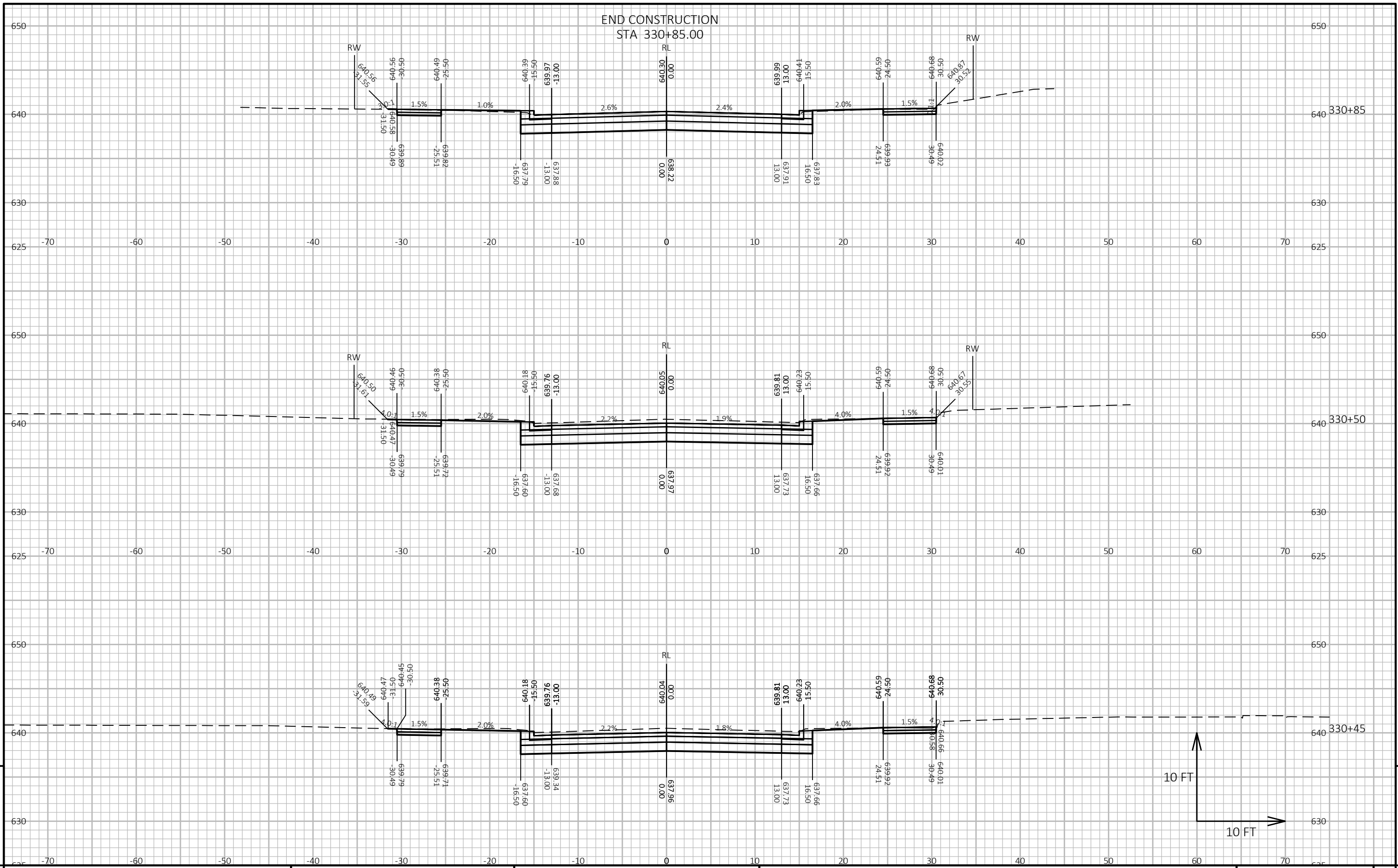


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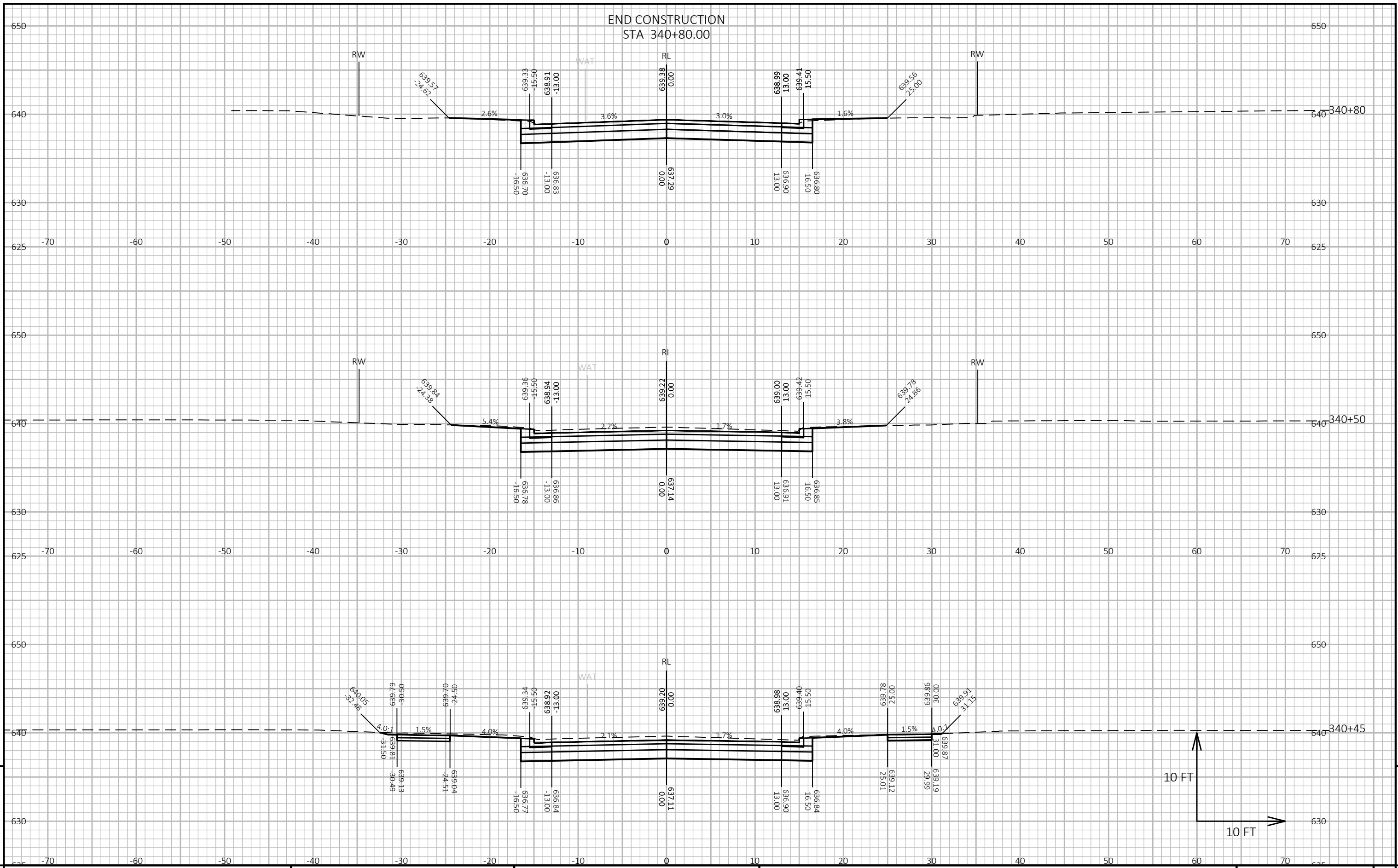
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PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 17TH STREET SHEET Page 201 of 207 E

FILE NAME: X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090202_XS.DWG PLOT DATE: 11/17/2023 2:42 PM PLOT BY: ANNIE JEROME PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

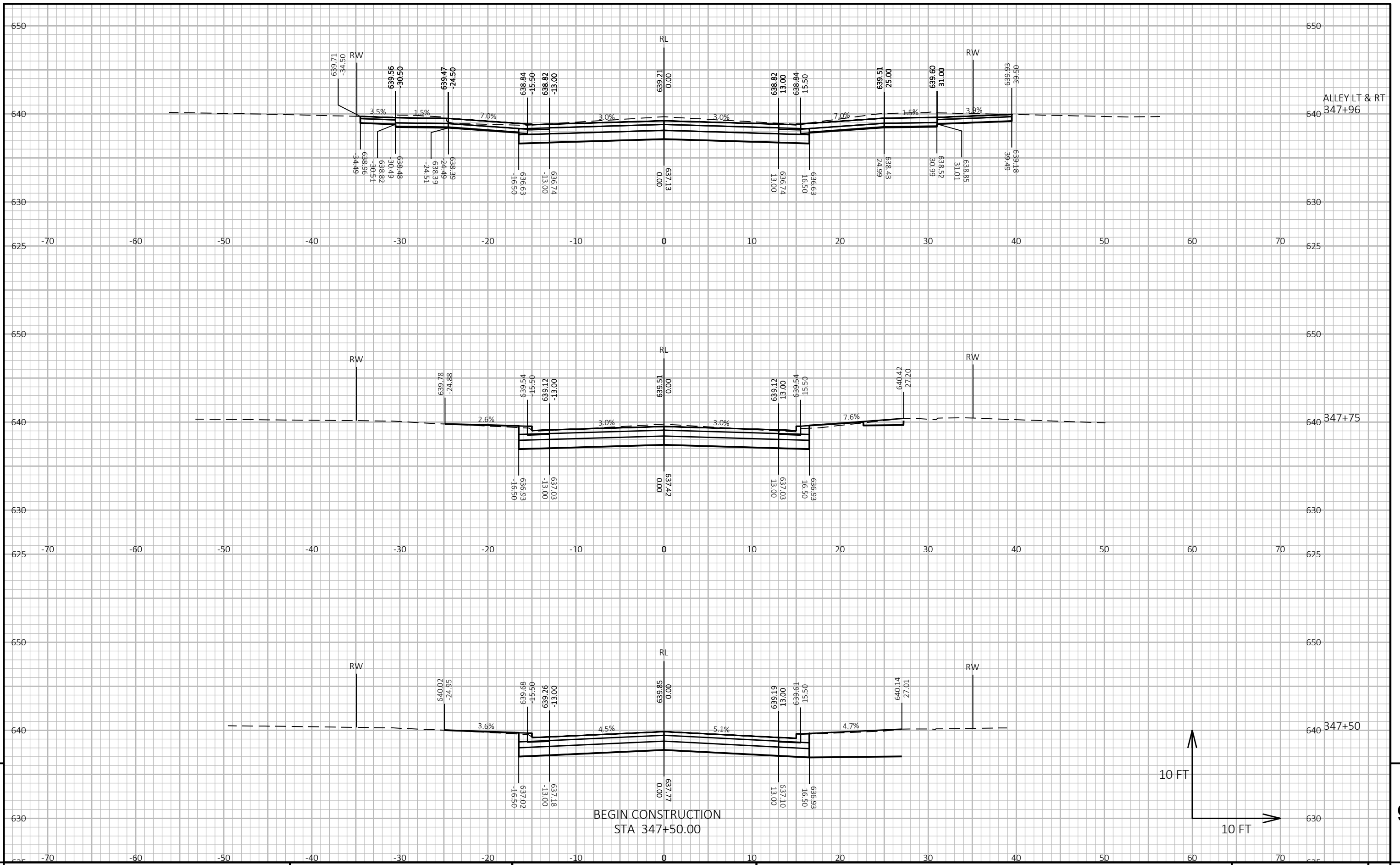


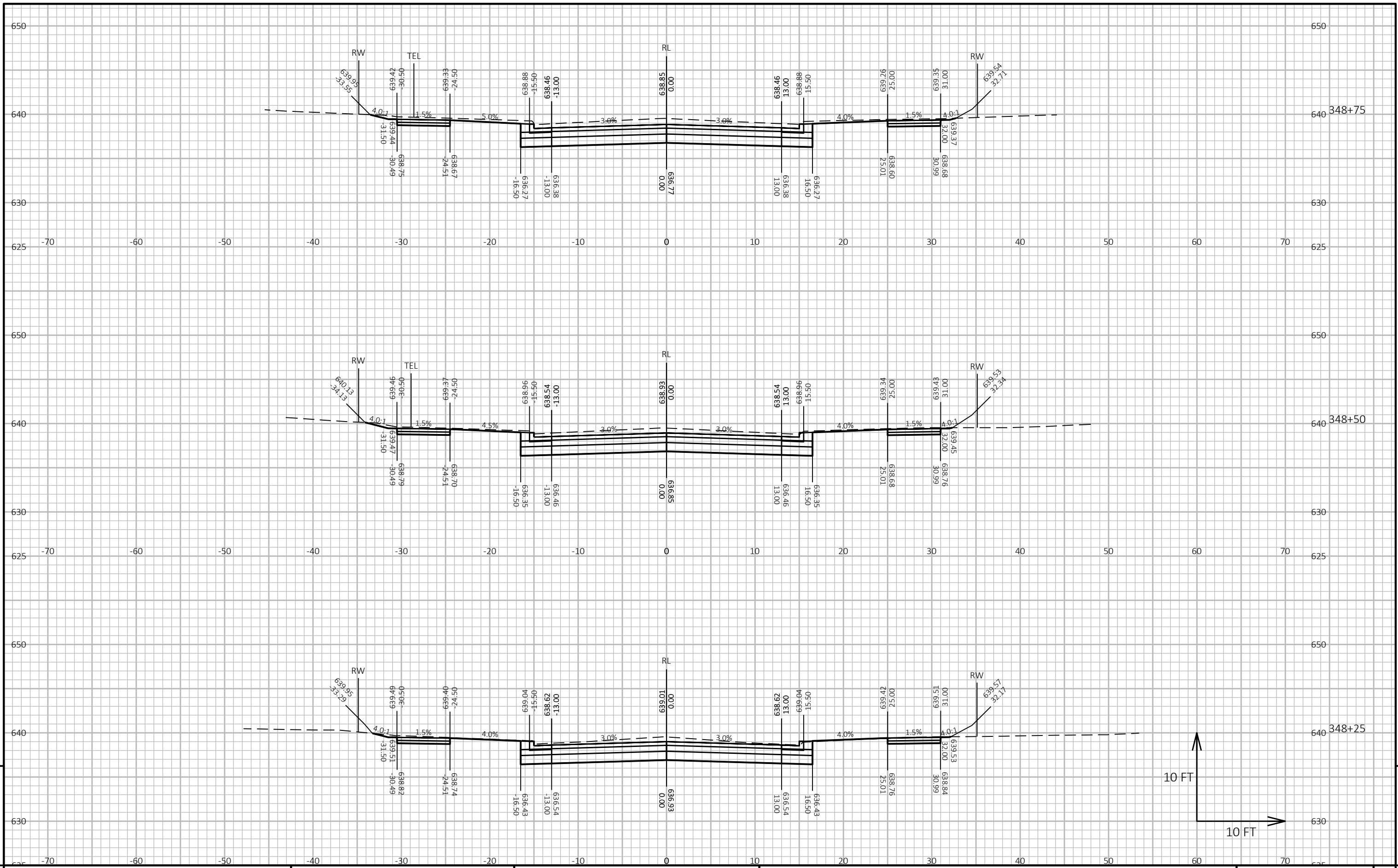
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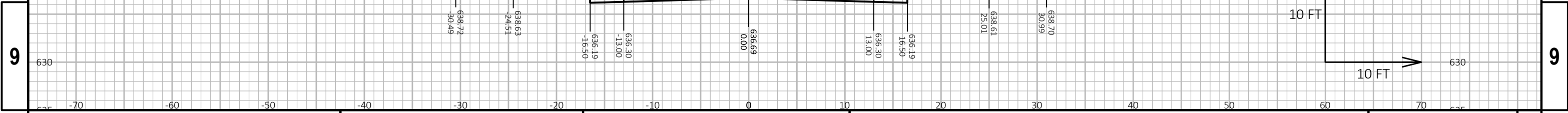
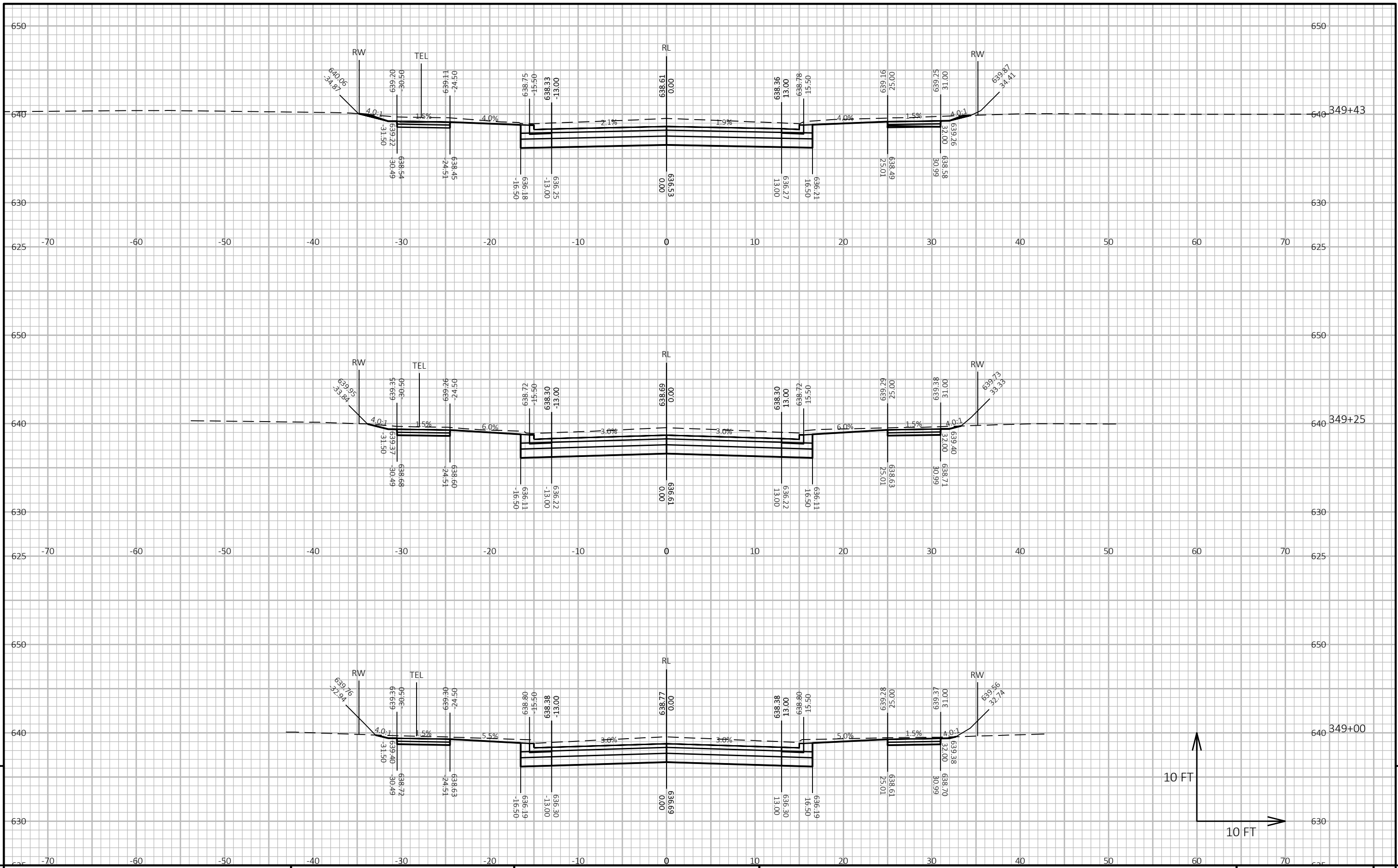


PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: HARRISON STREET SHEET Page 203 of 207 **E**

FILE NAME: X:\PT\S\SUPER\163728\5-FINAL-DSGN\C3D\89980036\SHEETSPLAN\090202_XS.DWG PLOT DATE: 11/17/2023 2:42 PM PLOT BY: ANNIE JEROME PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49







PROJECT NO: ---- HWY: HAMMOND AVE COUNTY: DOUGLAS CROSS SECTIONS: N 16TH STREET SHEET Page 206 of 207 E

