

**Exhibit A**

Ordinance Permit 2024002010 卟



## Certificate of Compliance

I hereby certify that work completed under this Ordinance Permit and materials provided for installation conform to the appropriate specifications and provisions of the current State of Minnesota Department of Transportation *Standard Specifications for Construction* and the Department of Public Works, City of Saint Paul, Minnesota, *Standard Supplemental Specifications for Construction*, as amended, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

The Heights - Infrastructure Construction - Winthrop 1+71 to 15+50, Howard 45+66 to 59+50, Arlington residential 144+88 to 148+21, Cottage 170+05 to 173+49 OP 20243010007

Project Description

License No. 59517

09-08-2025

(Signature and License No.)

Date

Bolton and Menk for Saint Paul Port Authority

Organization (Print)

**The Heights**  
**SPR No. 23-064690**  
**Ordinance Permit Corrections List**

Ordinance Permit Numbers: 20240020101, 20240020102, 20250020301, 20250020302, 20250020303

Site review completed by David Kuebler, Ryan Lowry, Tom Buchal October 09, 2025

- Roadway/Sidewalk Systems
  - Replace cracked sidewalk on the south side of Cottage Avenue East and east of Howard Street North.
  - Replace cracked driveway and pedestrian ramp at the southeast corner of Orange Avenue and Ivy Avenue.
  - Remove metal fence posts in the boulevard marking water services and replace with wood stakes.
  - Correct out of compliance castings for manhole and gate valves on Ivy Avenue and on Winthrop Street.
  - Remove and replace sidewalk on the west side of Winthrop Street going north from Sherwood Avenue. Install per plan.
  - Infill the incomplete sections of sidewalk throughout the permitted areas.
  - Complete the MnDOT Pedestrian Ramp ADA Compliance Checklist for each ramp within the Ordinance Permit domain and those done within the mill and overlay areas along Ivy Avenue.
  - Complete grading and turf restoration around the Habitat for Humanity blocks to the satisfaction of the RWMWD. Turf establishment at less than 70% coverage will appear on the warranty list. Turf establishment at less than 70% coverage on the south side of Ivy Avenue must be addressed.
  - Resolve the restoration and grade change at 2139 Ivy Avenue.
- Lighting System
  - Complete the installation of all lighting elements within the permitted areas.
  - Lighting to be operational by October 17, 2025 in order to advance OP acceptance.
  - Ensure removal of all previously existing and or obsolete light bases.
- Sewer System
  - Televising drain tile installed behind the back of curb.
  - Cut off drain tile cleanout stubs at the surface so as to keep the caps flush with the final surface of the boulevard.
- Signage System
  - Install the Cottage Avenue East name blade sign at Howard Street North.
  - Street name blades for the Ivy Avenue/McKnight Rd intersection were to be removed, salvaged and reinstalled. The signs have been damaged over the course of construction such that they do not meet City Standards. Remove and replace said signs.

# THE HEIGHTS SITE REDEVELOPMENT

(AKA HILLCREST GOLF COURSE)

## ORDINANCE PERMIT 08

### 20240020102

### AS-BUILTS

2200 Larpenteur Avenue East, St. Paul, Minnesota

WSB Project Number .....013987-000

Issue Date .....09-23-2024; 100% PLAN REVISION 6 (CITY REVIEW COMMENTS) 6



1 PROJECT LOCATION MAP  
SCALE: NOT TO SCALE

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES HAS BEEN DESIGNATED UTILITY QUALITY LEVEL D. THESE QUALITY LEVELS WERE DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE DATA". THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE DEEMED NECESSARY TO AVOID DAMAGE THERETO.

I HEREBY CERTIFIED THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BOLTON & MENK, INC. CANNOT ASSURE ITS ACCURACY. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

*Ashleigh K. Rosa*  
ASHLEIGH K. ROSA  
LICENSE #: 59517

9-8-2025  
DATE

**CONTRACTOR:**  
**DESIGNING EARTH CONTRACTING**  
**1282 187th Ln NE**  
**East Bethel, MN 55011**

1  
2  
3

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	STATEMENT OF ESTIMATED QUANTITIES
4-9	EARTHWORK TABULATIONS
10-14	UTILITY TABULATIONS
15-23	STANDARD DETAILS
24-29	PEDESTRIAN CURB RAMP DETAILS
30-31	GENERAL NOTES
32-36	EXISTING CONDITIONS PLAN
37-45	TYPICAL SECTIONS
46-53	ALIGNMENT PLANS
54-57	BUILDING DEMOLITION PLAN
58-62	CONTAMINATED SOILS REMOVAL PLAN
63-76	SITE PLAN
77-95	REMOVAL PLAN
96-109	GRADING PLAN
110-111	SUBSURFACE STORMWATER DETAIL
112	STORMWATER INFILTRATION BASIN DETAIL
113-114	IRON ENHANCED STORMWATER DETAIL
115-116	STORMWATER INFILTRATION BASIN DETAIL
117-120	SPECIAL DRAINAGE STRUCTURE DETAILS
121-130	DISTRICT STORMWATER SWALE DETAILS
131-134	RETAINING WALL PLAN & DETAILS
135-164	SANITARY SEWER AND WATERMAIN CONSTRUCTION
165-203	STORM SEWER CONSTRUCTION
204-235	STREET CONSTRUCTION
236-248	TRAIL CONSTRUCTION PLAN
249-260	INTERSECTION DETAILS
261-290	PEDESTRIAN RAMP PLAN
291-312	STREET LIGHTING PLAN
313-323	TRAFFIC CONTROL PLANS
324-347	SIGNING AND STRIPING PLANS
348	TEMPORARY SEDIMENT CONTROL PLAN & DETAILS
349-369	EROSION CONTROL PLAN & DETAILS
370-373	STORM WATER POLLUTION PREVENTION PLAN
374-435	CROSS SECTIONS
436-448	LANDSCAPE AMENITY PLAN (L300-L305, L310-L316)
449	TREE PROTECTION DETAILS (L501)
450-451	LANDSCAPE AMENITY DETAILS (L601 - L602)

THIS PLAN SET CONTAINS 451 SHEETS 6

**DESIGN VEHICLE**

LOCAL STREET	DESIGN VEHICLE	ACCOMODATION VEHICLE
WINTHROP ST. N.	P	S-BUS-40
IVY AVE. E.	P	S-BUS-40
CLEAR AVE. E.	P	S-BUS-40
COTTAGE AVE. E.	P	S-BUS-40
SHERWOOD AVE. E.	P	S-BUS-40
ARLINGTON AVE. E.	P	S-BUS-40
NEBRASKA AVE. E.	P	S-BUS-40
HOYT AVE. E.	P	S-BUS-40
IOWA AVE. E.	P	S-BUS-40

**MIXED-USE**

LIGHT INDUSTRIAL STREET	DESIGN VEHICLE	ACCOMODATION VEHICLE
HOWARD ST. N.	SU-30	WB-40
IDAHO AVE. E.	SU-30	WB-40
MONTANA AVE. E.	WB-40	WB-62
ARLINGTON AVE. E.	WB-40	WB-62

**DESIGN DESIGNATION (ARLINGTON, HOWARD, IDAHO, MONTANA)**

R VALUE	=	30
PRESENT ADT (2025)	=	0
PROJECTED ADT (2045)	=	3,450
ESALS	=	460,000
DESIGN SPEED	=	25 MPH
BASED ON:	=	STOPPING SIGHT DISTANCE
HEIGHT OF EYE	=	3.5
HEIGHT OF OBJECT	=	2.0

DESIGN SPEED NOT ACHIEVED AT:

FUNCTIONAL CLASSIFICATION:	LOCAL
NO. OF TRAFFIC LANES:	2
NO. OF PARKING LANES:	1
SHOULDER WIDTH:	2
STRUCTURAL DESIGN STRENGTH:	10 TON

**DESIGN DESIGNATION (LOCAL / RESIDENTIAL STREETS)**

R VALUE	=	30
PRESENT ADT (2025)	=	0
PROJECTED ADT (2045)	=	1,500
ESALS	=	150,000
DESIGN SPEED	=	25 MPH
BASED ON:	=	STOPPING SIGHT DISTANCE
HEIGHT OF EYE	=	3.5
HEIGHT OF OBJECT	=	2.0

DESIGN SPEED NOT ACHIEVED AT:

FUNCTIONAL CLASSIFICATION:	LOCAL
NO. OF TRAFFIC LANES:	2
NO. OF PARKING LANES:	1
SHOULDER WIDTH:	2
STRUCTURAL DESIGN STRENGTH:	10 TON

**DESIGN DESIGNATION TRAIL**

DESIGN SPEED	20 MPH
BASED ON	STOPPING SIGHT DISTANCE HEIGHT
OF EYE	4.5 HEIGHT OF OBJECT 0.0

SCALE: AS SHOWN  
DESIGN BY: PJM  
CHECK BY: PTH JMT

NO.	DATE	DESCRIPTION	ADDENDUM NO. 1	ADDENDUM NO. 2	PLAN REVISIONS	100% PLAN COMMENTS
1	01/30/2024					
2	02/09/2024					
3	03/29/2024					
6	09/23/2024					

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Paul Hornby, P.E.*  
PAUL HORNBY, P.E.  
DATE: 03/29/2024 LIC. NO.: 23359

TITLE SHEET

INFRASTRUCTURE PLANS FOR:  
THE HEIGHTS  
SAINT PAUL, MINNESOTA

Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000

NO.	DATE	DESCRIPTION

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PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

TYPICAL SECTIONS

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

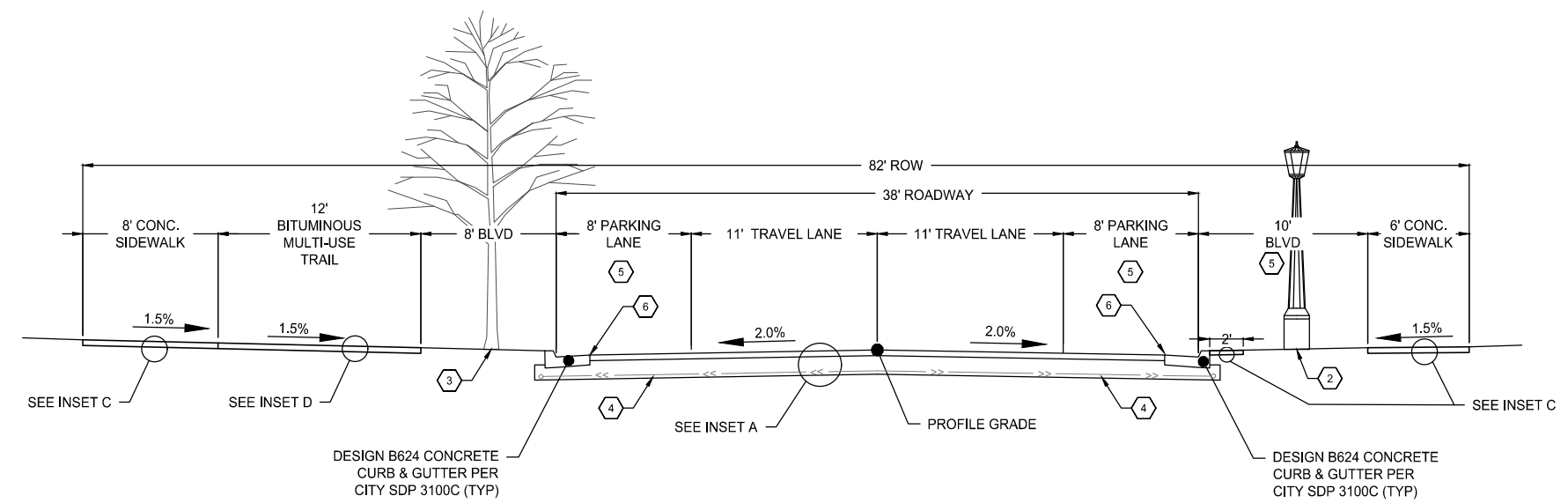
Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

- CLEAR ZONES ADJACENT TO TRAILS TO BE MAINTAINED AT ALL TIMES. CLEAR ZONES SHALL BE GRADED AT 2% SLOPE TOWARD THE ROADWAY BACK OF CURB.
- STREET LIGHT DETAIL AND LOCATION IS INCLUDED FOR GENERAL INFORMATION AND COMMENT. SEE STREET LIGHTING PLAN FOR ACTUAL LOCATIONS.
- REFER TO LANDSCAPE PLANS FOR SPACING AND SPECIES OF BOULEVARD TREES. TREES TO BE PLANTED IN CENTER OF BOULEVARD BOTH SIDES OF THE STREET. TREES MUST BE A MINIMUM OF 2' FROM MULTI-USE TRAIL AND BACK OF CURB. BOULEVARD TO BE GRADED TO 2% SLOPE TOWARDS CURB.
- 8" SCHEDULE 40 PERFORATED PVC AT LOW POINTS (SEE DETAILS).
- SEE PLANS FOR VARIANCES FROM TYPICAL SECTION
- APPLY MASTIC JOINT ADHESIVE TO TOE OF CURB PRIOR TO FINAL LIFT OF PAVEMENT (SEE SPECIFICATION 2331).

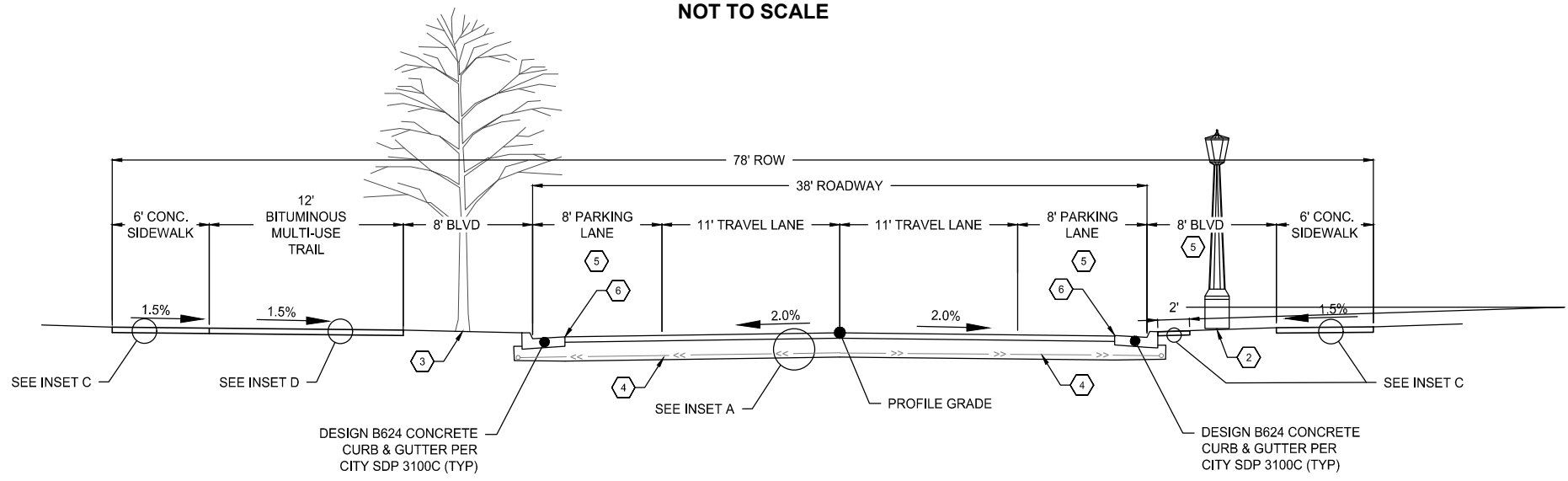
NOTES:  
 • SEE DETAIL ON SHEET 45 FOR PRIVATE UTILITY LOCATION  
 • ALL BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" TOPSOIL.

\*Note: Reference RFI -03 for the bituminous substitution



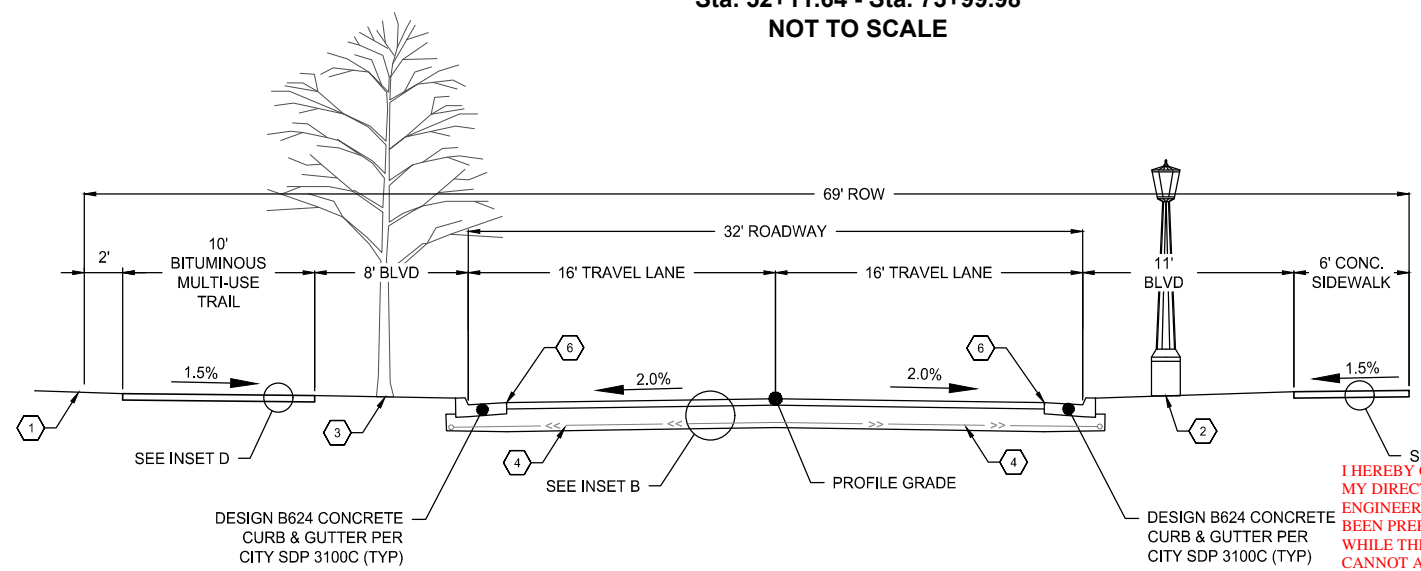
HOWARD STREET NORTH

Sta. 73+99.98 - Sta. 78+92.17  
 NOT TO SCALE



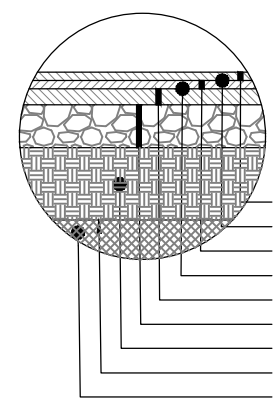
HOWARD STREET NORTH

Sta. 52+11.64 - Sta. 73+99.98  
 NOT TO SCALE



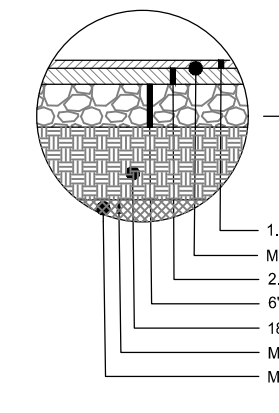
HOWARD STREET NORTH

Sta. 45+50.50 - Sta. 52+11.64  
 NOT TO SCALE



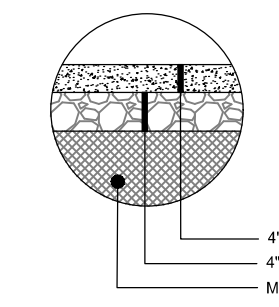
INSET A

HEAVY DUTY BITUMINOUS ROAD  
 NOT TO SCALE  
 SPWEA44C (SP 9.5 WEARING COURSE 4.C)  
 1.5" BITUMINOUS WEAR COURSE, SPWEA40C  
 MnDOT 2357 BITUMINOUS TACK COAT  
 1.5" BITUMINOUS WEAR COURSE, SPWEA40C  
 MnDOT 2357 BITUMINOUS TACK COAT  
 2" BITUMINOUS BASE COURSE, SPNWB330B  
 9" MnDOT 3138 AGGREGATE BASE (CLASS 5)  
 24" SELECT GRANULAR EMBANKMENT  
 MnDOT 3733 GEOTEXTILE FABRIC TYPE 5  
 MnDOT 2112 SUBGRADE PREPARATION  
 SPNWB430B (SP 12.5 NON-WEARING COURSE 4.B)



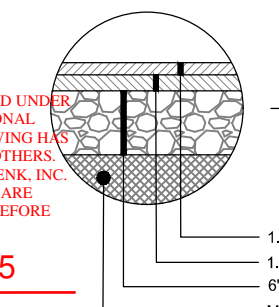
INSET B

NEIGHBORHOOD BITUMINOUS ROAD  
 NOT TO SCALE  
 SPWEA44C (SP 9.5 WEARING COURSE 4.C)  
 1.5" BITUMINOUS WEAR COURSE, SPWEA240C  
 MnDOT 2357 BITUMINOUS TACK COAT  
 2.5" BITUMINOUS NON-WEAR COURSE, SPNWB230C  
 6" MnDOT 3138 AGGREGATE BASE (CLASS 5)  
 18" SELECT GRANULAR EMBANKMENT  
 MnDOT 3733 GEOTEXTILE FABRIC TYPE 5  
 MnDOT 2112 SUBGRADE PREPARATION  
 SPNWB430B (SP 12.5 NON-WEARING COURSE 4.B)



INSET C

CONCRETE SIDEWALK SECTION  
 NOT TO SCALE  
 4" CONCRETE SIDEWALK (MIX 3F52)  
 4" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)  
 MnDOT 2112 SUBGRADE PREPARATION



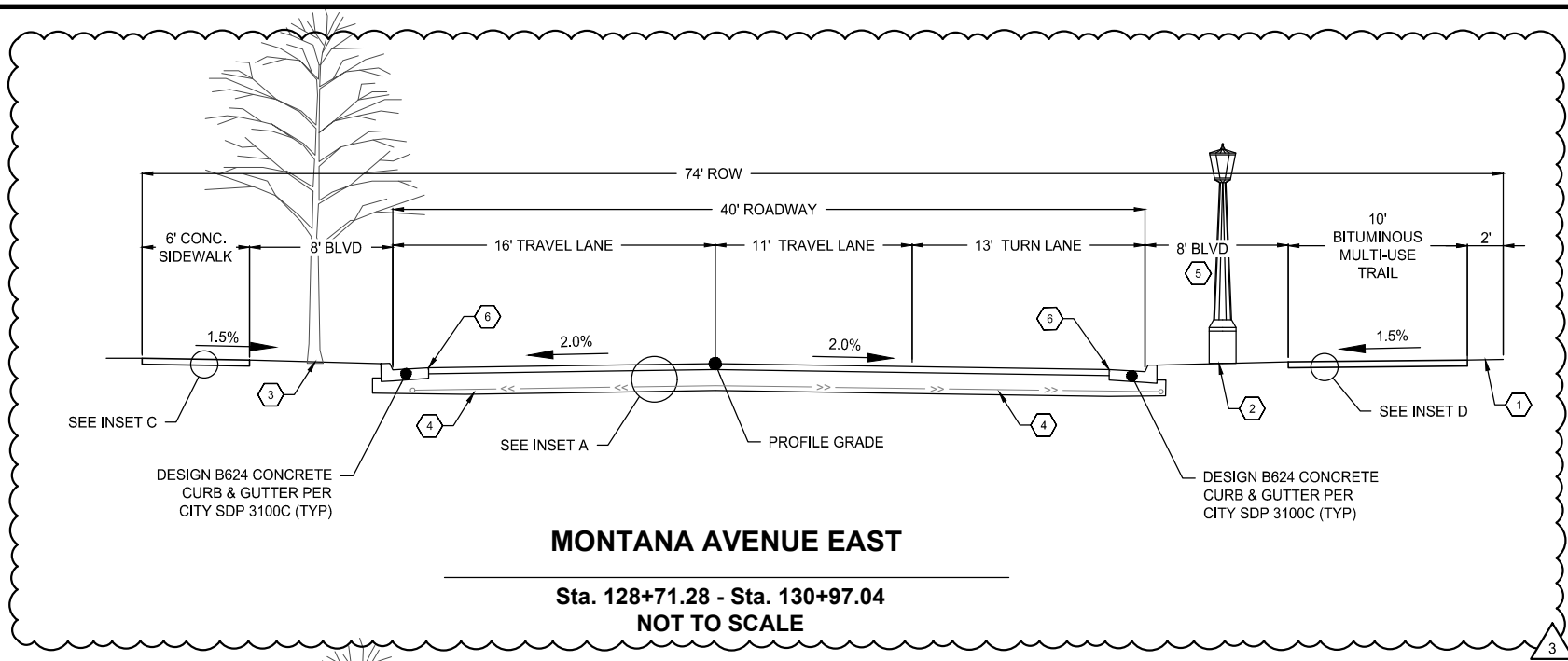
INSET D

BITUMINOUS DRIVEWAY/TRAIL SECTION  
 NOT TO SCALE  
 1.5" BITUMINOUS WEAR COURSE SPWEA240B  
 1.5" BITUMINOUS WEAR COURSE SPWEA240B  
 6" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)  
 MnDOT 2112 SUBGRADE PREPARATION

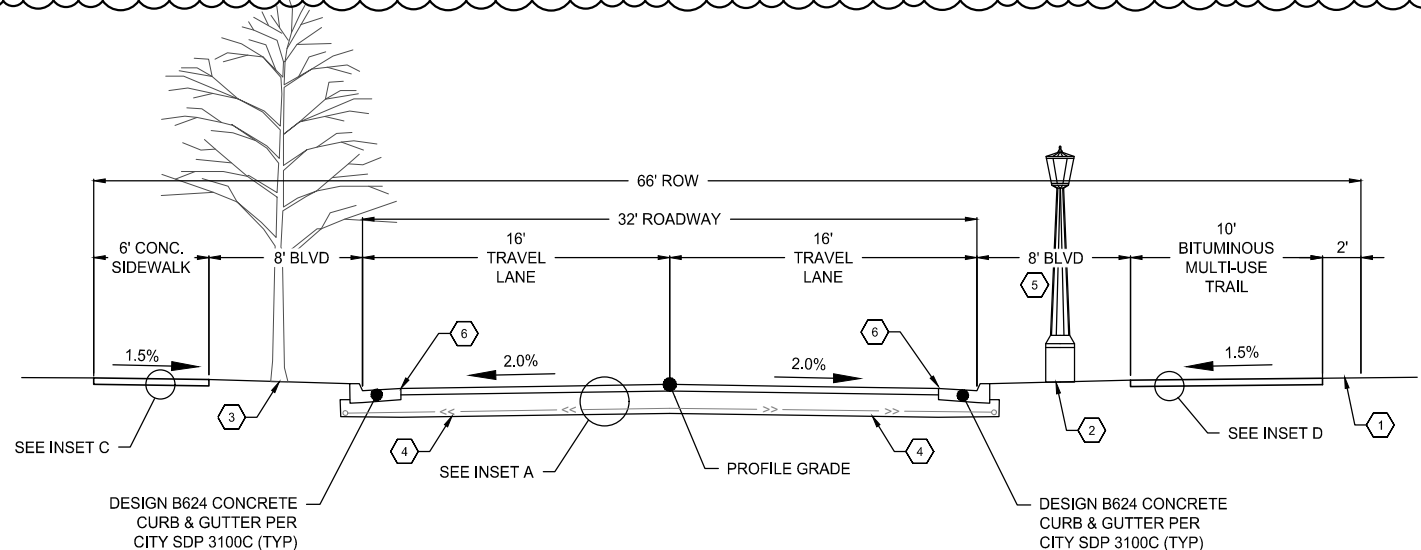
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Ashleigh K. Rosa  
 LICENSE # 59517

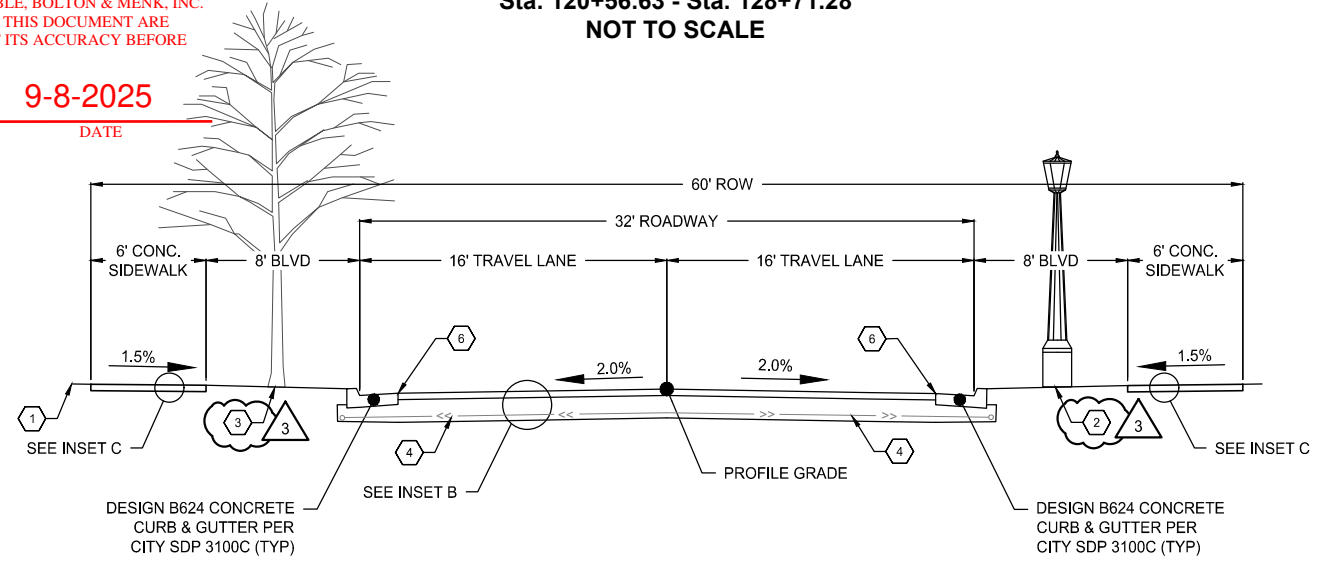
9-8-2025  
 DATE



**MONTANA AVENUE EAST**  
 Sta. 128+71.28 - Sta. 130+97.04  
 NOT TO SCALE



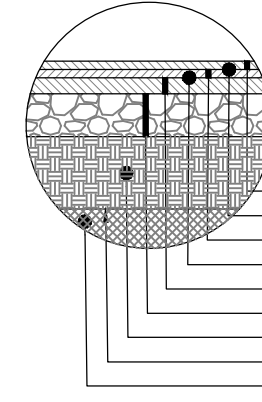
**MONTANA AVENUE EAST**  
 Sta. 120+56.63 - Sta. 128+71.28  
 NOT TO SCALE



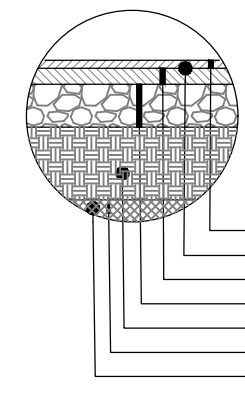
**COTTAGE AVENUE EAST**  
 Sta. 170+78.14 - Sta. 173+68.15  
 NOT TO SCALE

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  - 2 STREET LIGHT DETAIL AND LOCATION IS INCLUDED FOR GENERAL INFORMATION AND COMMENT. SEE STREET LIGHTING PLAN FOR ACTUAL LOCATIONS.
  - 3 REFER TO LANDSCAPE PLANS FOR SPACING AND SPECIES OF BOULEVARD TREES. TREES TO BE PLANTED IN CENTER OF BOULEVARD BOTH SIDES OF THE STREET. TREES MUST BE A MINIMUM OF 2' FROM MULTI-USE TRAIL AND BACK OF CURB. BOULEVARD TO BE GRADED TO 2% SLOPE TOWARDS CURB.
  - 4 8" SCHEDULE 40 PERFORATED PVC AT LOW POINTS (SEE DETAILS).
  - 5 SEE PLANS FOR VARIANCES FROM TYPICAL SECTION
  - 6 APPLY MASTIC JOINT ADHESIVE TO TOE OF CURB PRIOR TO FINAL LIFT OF PAVEMENT (SEE SPECIFICATION 2331).
- NOTES:  
 • SEE DETAIL ON SHEET 45 FOR PRIVATE UTILITY LOCATION  
 • ALL BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" TOPSOIL.

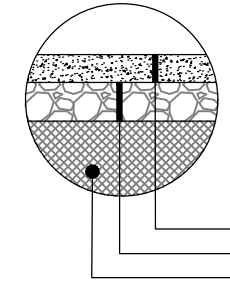
\*Note: Reference RFI -03 for the bituminous substitution



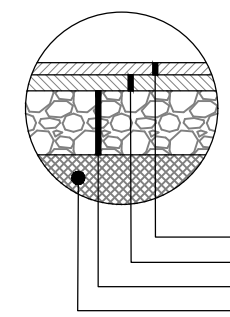
**INSET A**  
 HEAVY DUTY BITUMINOUS ROAD  
 NOT TO SCALE



**INSET B**  
 NEIGHBORHOOD BITUMINOUS ROAD  
 NOT TO SCALE



**INSET C**  
 CONCRETE SIDEWALK SECTION  
 NOT TO SCALE



**INSET D**  
 BITUMINOUS DRIVEWAY/TRAIL SECTION  
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 ASHLEIGH K ROSA  
 LICENSE #: 59517  
 DATE: 9-8-2025

REVISIONS		DESCRIPTION	PLAN REVISIONS
NO.	DATE		
3	03/29/2024		

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*Paul Hornby, P.E.*  
 PAUL HORNBY, P.E.  
 LIC. NO.: 23359  
 DATE: 03/29/2024

TYPICAL SECTIONS

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

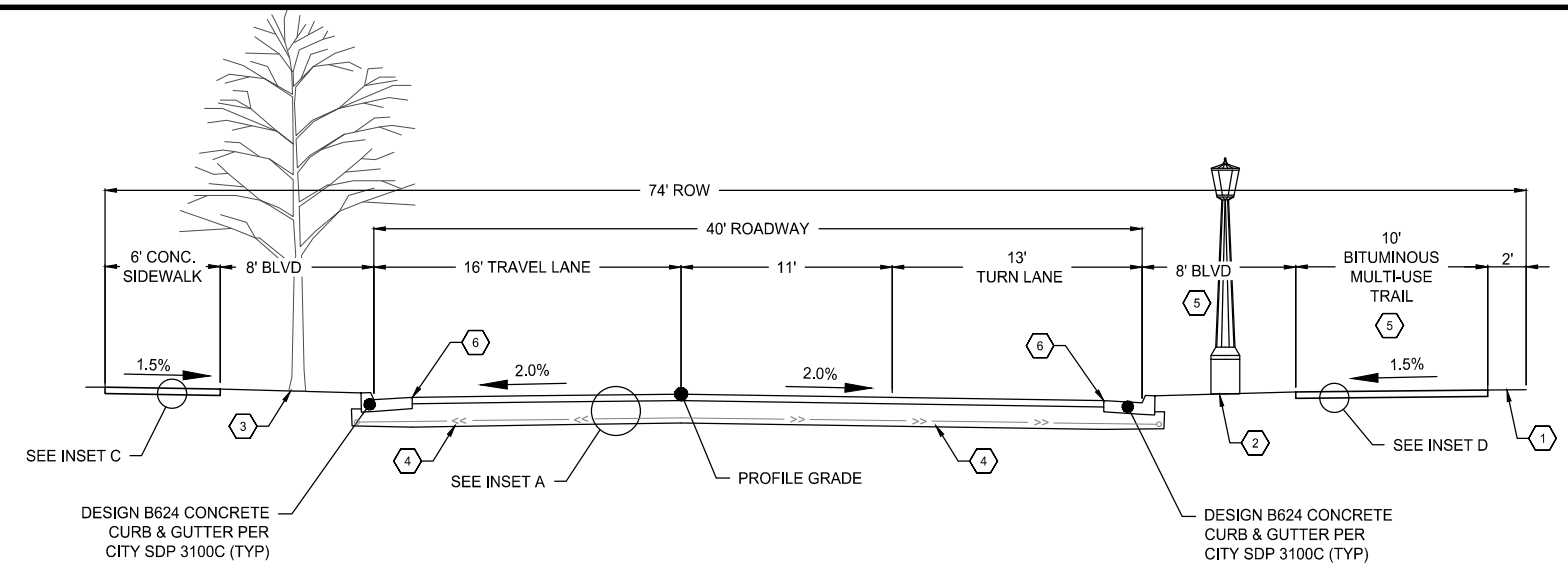
WSB PROJECT NO.  
 013987-000

K:\013987-000\CadPlan\SUBMITTAL\013987-000-CP-TYP-DET.dwg 10/16/2024 1:10:37 PM

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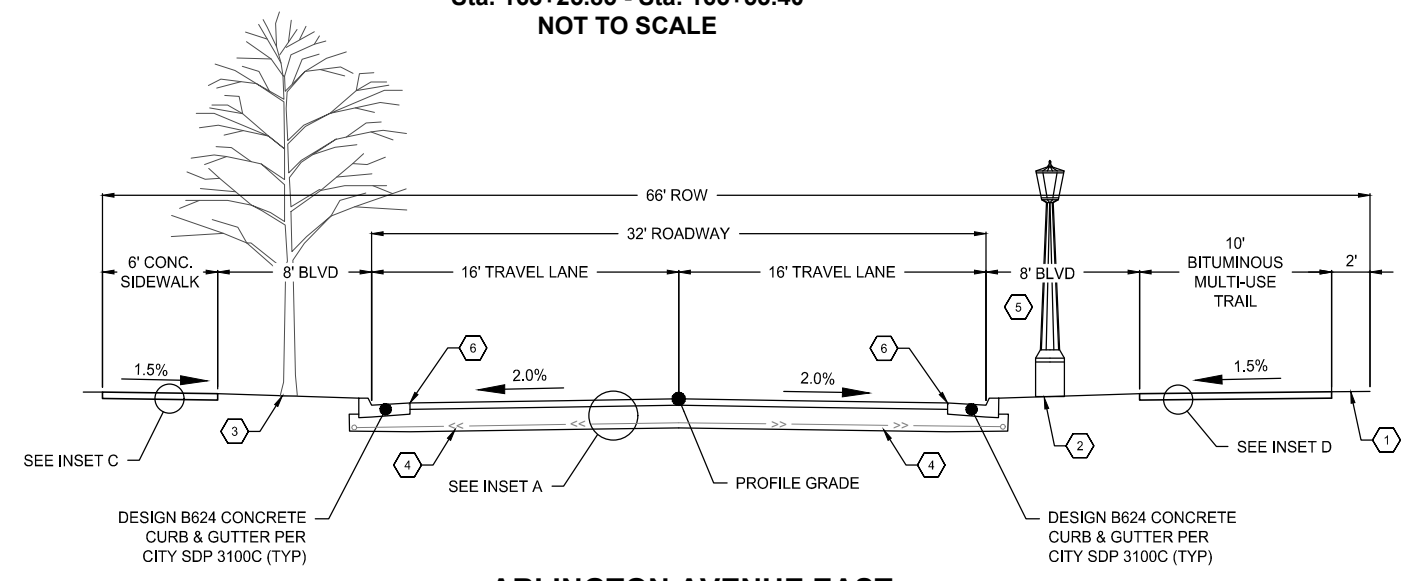
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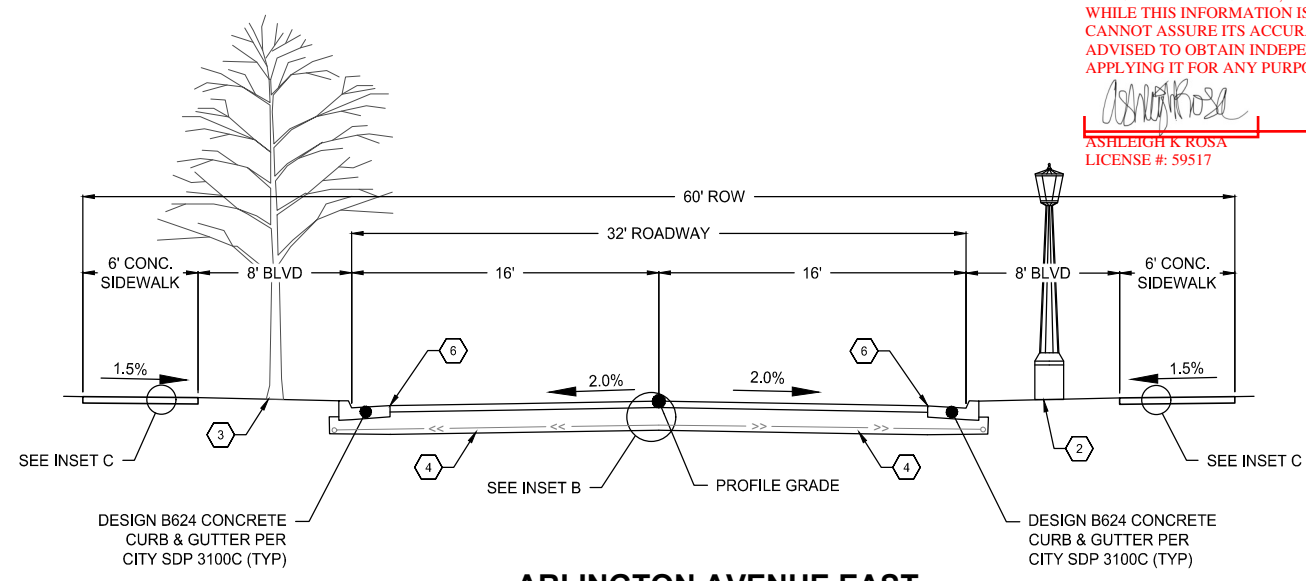
**ARLINGTON AVENUE EAST**

Sta. 163+25.85 - Sta. 165+55.40  
 NOT TO SCALE



**ARLINGTON AVENUE EAST**

Sta. 155+56.96 - Sta. 163+25.85  
 NOT TO SCALE

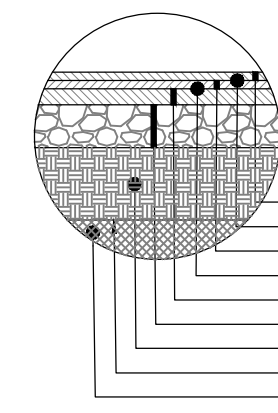


**ARLINGTON AVENUE EAST**

Sta. 144+88.06 - Sta. 148+34.98  
 NOT TO SCALE

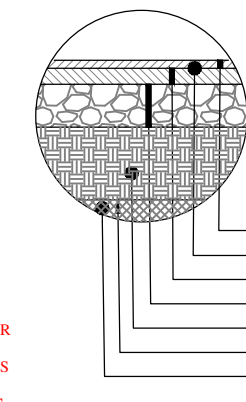
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*Ashleigh K. Rosa*  
 ASHLEIGH K. ROSA  
 LICENSE #: 59517  
 9-8-2025  
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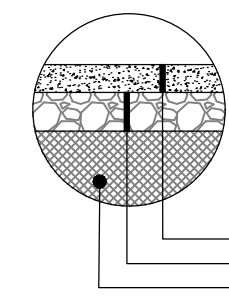
**INSET A**

- HEAVY DUTY BITUMINOUS ROAD  
 NOT TO SCALE
- 1.5" BITUMINOUS WEAR COURSE, SPWEA44C (SP 9.5 WEARING COURSE 4.C)
  - MnDOT 2357 BITUMINOUS TACK COAT
  - 1.5" BITUMINOUS WEAR COURSE, SPWEB240C
  - MnDOT 2357 BITUMINOUS TACK COAT
  - 2" BITUMINOUS BASE COURSE, SPNWB230B
  - 9" MnDOT 3138 AGGREGATE BASE (CLASS 5)
  - 24" SELECT GRANULAR EMBANKMENT
  - MnDOT 3733 GEOTEXTILE FABRIC TYPE 5
  - MnDOT 2112 SUBGRADE PREPARATION
  - SPNWB430B (SP 12.5 NON-WEARING COURSE 4.B)



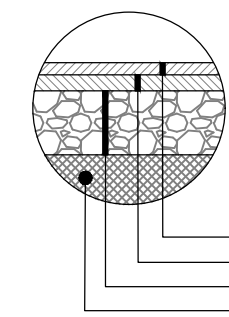
**INSET B**

- NEIGHBORHOOD BITUMINOUS ROAD  
 NOT TO SCALE
- 1.5" BITUMINOUS WEAR COURSE, SPWEA44C (SP 9.5 WEARING COURSE 4.C)
  - MnDOT 2357 BITUMINOUS TACK COAT
  - 2.5" BITUMINOUS NON-WEAR COURSE, SPNWB230C
  - 6" MnDOT 3138 AGGREGATE BASE (CLASS 5)
  - 18" SELECT GRANULAR EMBANKMENT
  - MnDOT 3733 GEOTEXTILE FABRIC TYPE 5
  - MnDOT 2112 SUBGRADE PREPARATION
  - SPNWB430B (SP 12.5 NON-WEARING COURSE 4.B)



**INSET C**

- CONCRETE SIDEWALK SECTION  
 NOT TO SCALE
- 4" CONCRETE SIDEWALK (MIX 3F52)
  - 4" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
  - MnDOT 2112 SUBGRADE PREPARATION



**INSET D**

- BITUMINOUS DRIVEWAY/TRAIL SECTION  
 NOT TO SCALE
- 1.5" BITUMINOUS WEAR COURSE SPWEA240B
  - 1.5" BITUMINOUS WEAR COURSE SPWEA240B
  - 6" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
  - MnDOT 2112 SUBGRADE PREPARATION

REVISIONS	
NO.	DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Paul Hornby, P.E.*  
 PAUL HORNBY, P.E.  
 LIC. NO.: 23359  
 DATE: 03/29/2024

**TYPICAL SECTIONS**

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

K:\013987-000\CadPlan\SUBMITTAL\013987-000-CR-TYP-DET.dwg 10/16/2024 1:10:47 PM

- 1 CLEAR ZONES ADJACENT TO TRAILS TO BE MAINTAINED AT ALL TIMES. CLEAR ZONES SHALL BE GRADED AT 2% SLOPE TOWARD THE ROADWAY BACK OF CURB.
- 2 STREET LIGHT DETAIL AND LOCATION IS INCLUDED FOR GENERAL INFORMATION AND COMMENT. SEE STREET LIGHTING PLAN FOR ACTUAL LOCATIONS.
- 3 REFER TO LANDSCAPE PLANS FOR SPACING AND SPECIES OF BOULEVARD TREES. TREES TO BE PLANTED IN CENTER OF BOULEVARD BOTH SIDES OF THE STREET. TREES MUST BE A MINIMUM OF 2' FROM MULTI-USE TRAIL AND BACK OF CURB. BOULEVARD TO BE GRADED TO 2% SLOPE TOWARDS CURB.
- 4 8" SCHEDULE 40 PERFORATED PVC AT LOW POINTS (SEE DETAILS).
- 5 SEE PLANS FOR VARIANCES FROM TYPICAL SECTION
- 6 APPLY MASTIC JOINT ADHESIVE TO TOE OF CURB PRIOR TO FINAL LIFT OF PAVEMENT (SEE SPECIFICATION 2331).

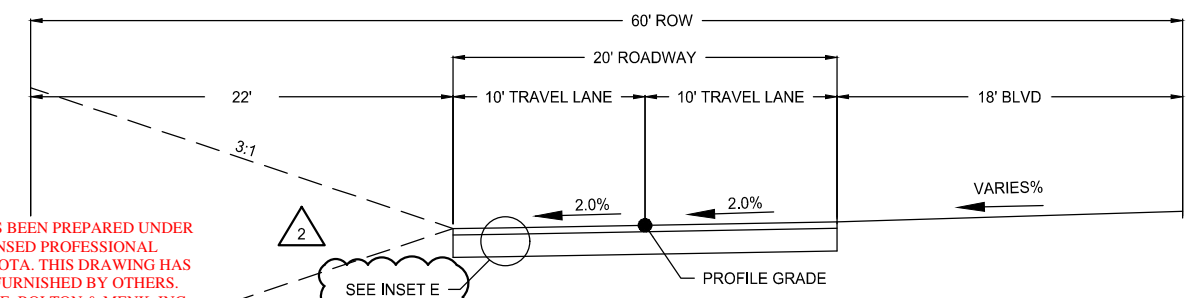
NOTES:  
 • SEE DETAIL ON SHEET 45 FOR PRIVATE UTILITY LOCATION  
 • ALL BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" TOPSOIL.

SCALE: AS SHOWN  
 DESIGN BY: PJM  
 PLAN BY: DEH  
 CHECK BY: PTH

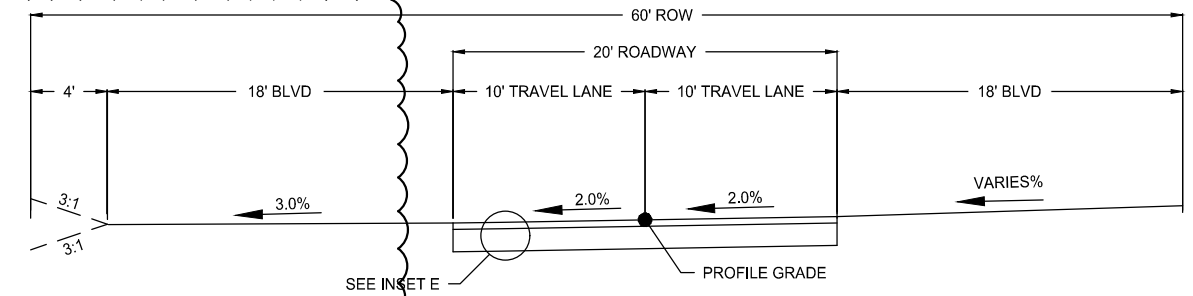
REVISIONS					
NO.	DATE	DESCRIPTION	ADDENDUM NO. 1	ADDENDUM NO. 2	100% PLAN COMMENTS
1	01/30/2024				
2	02/09/2024				
3	03/29/2024				
6	09/23/2024				

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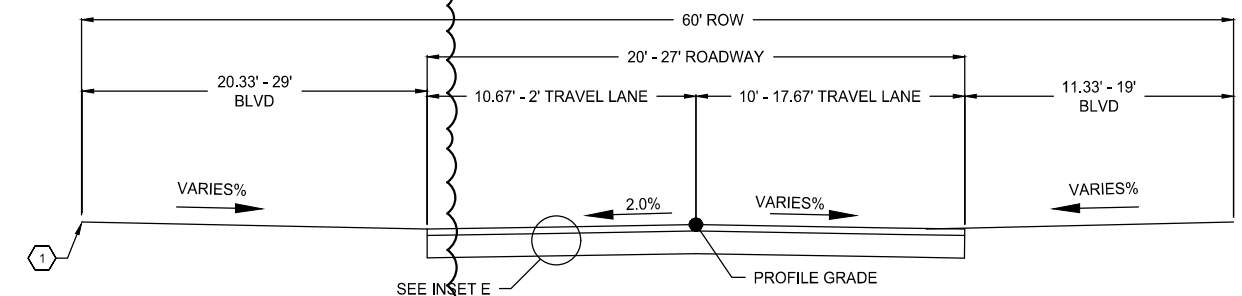
*Ashleigh K. Rosa*  
 ASHLEIGH K. ROSA  
 LICENSE #: 59517  
 9-8-2025  
 DATE



**WINTHROP STREET NORTH**  
 IDAHO AVENUE to LARPELTEUR AVENUE  
 Sta. 35+62.69 - Sta. 40+96.28  
 NOT TO SCALE

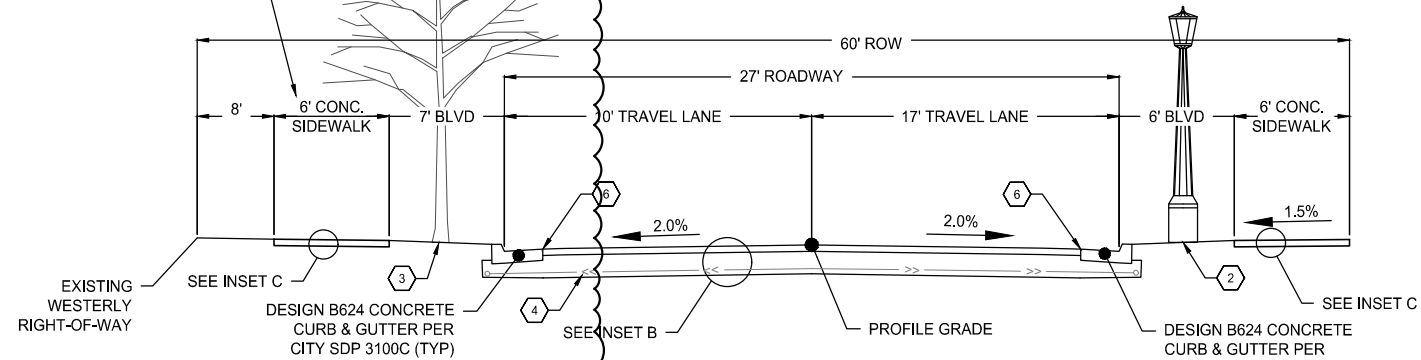


**WINTHROP STREET NORTH**  
 IDAHO AVENUE to LARPELTEUR AVENUE  
 Sta. 35+55.31 - Sta. 35+62.69  
 NOT TO SCALE

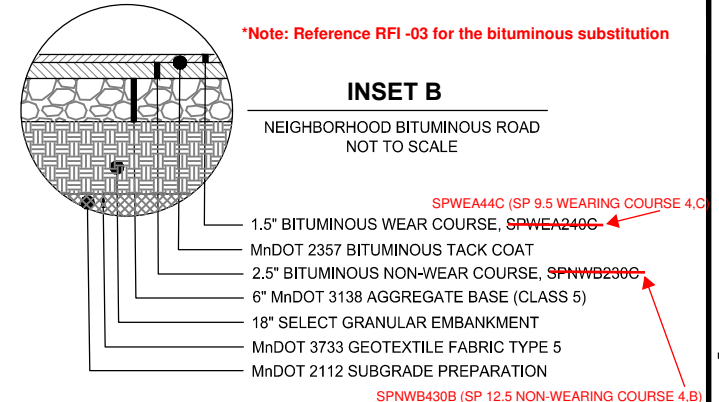


**WINTHROP STREET NORTH**  
 IDAHO AVENUE to LARPELTEUR AVENUE  
 Sta. 34+95.99 - Sta. 35+55.31  
 NOT TO SCALE

NOTE: SIDEWALK ENDS AT 34+37.5 LT.



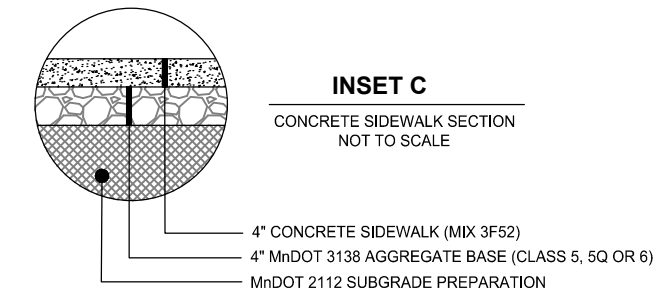
**WINTHROP STREET EAST**  
 Sta. 1+55.75 - Sta. 34+95.99  
 NOT TO SCALE



**INSET B**  
 NEIGHBORHOOD BITUMINOUS ROAD  
 NOT TO SCALE

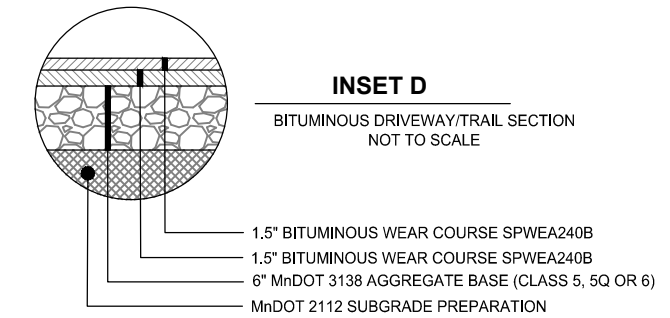
\*Note: Reference RFI -03 for the bituminous substitution

SPWEA44C (SP 9.5 WEARING COURSE 4.C)  
 SPWEA240C  
 SPNWB230C  
 SPNWB430B (SP 12.5 NON-WEARING COURSE 4.B)



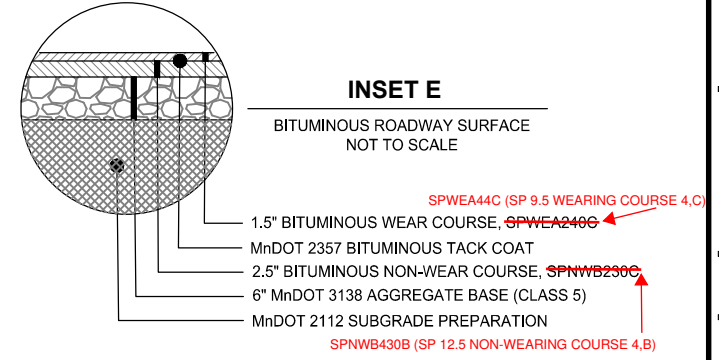
**INSET C**  
 CONCRETE SIDEWALK SECTION  
 NOT TO SCALE

4" CONCRETE SIDEWALK (MIX 3F52)  
 4" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)  
 MnDOT 2112 SUBGRADE PREPARATION



**INSET D**  
 BITUMINOUS DRIVEWAY/TRAIL SECTION  
 NOT TO SCALE

1.5" BITUMINOUS WEAR COURSE SPWEA240B  
 MnDOT 2112 SUBGRADE PREPARATION



**INSET E**  
 BITUMINOUS ROADWAY SURFACE  
 NOT TO SCALE

SPWEA44C (SP 9.5 WEARING COURSE 4.C)  
 SPWEA240C  
 SPNWB230C  
 SPNWB430B (SP 12.5 NON-WEARING COURSE 4.B)

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*Paul Hornby, P.E.*  
 PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

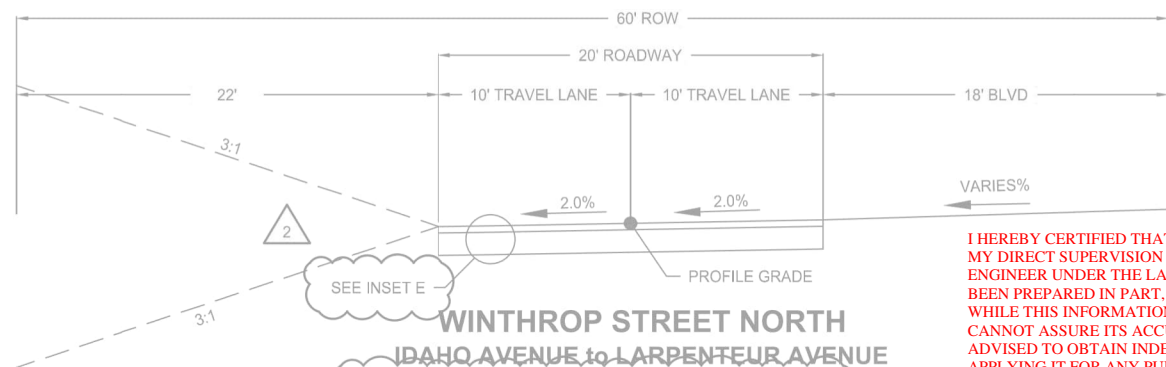
TYPICAL SECTIONS

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

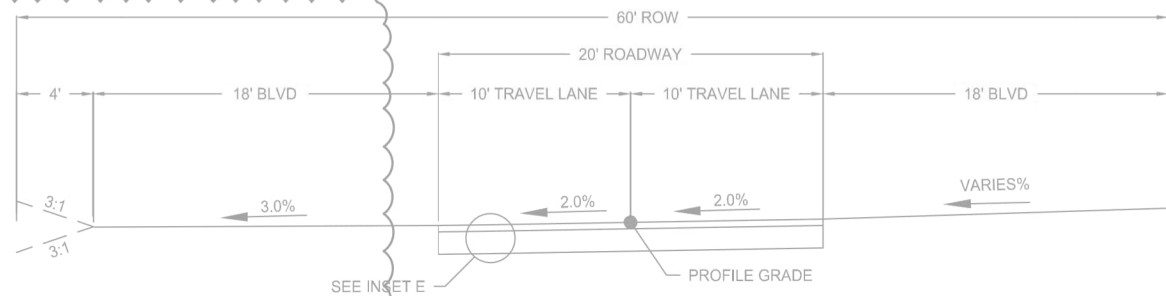
CMI NOTE: SEE ALSO SHEET 42-R, REV. 7 (CIVIL METHODS, INC.)



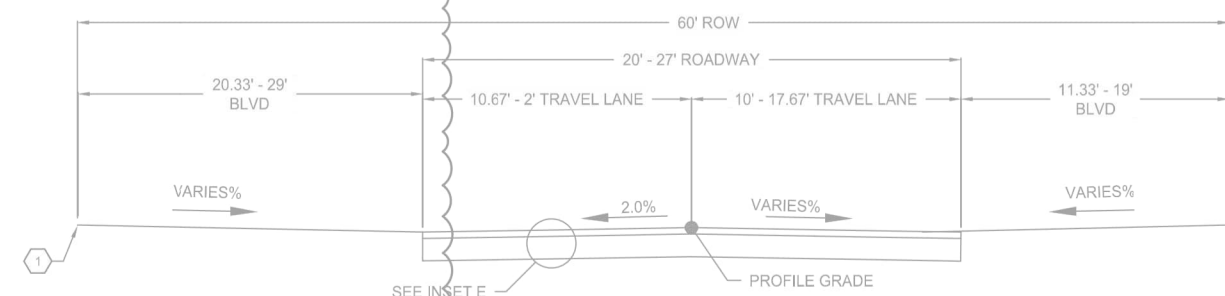
**WINTHROP STREET NORTH**  
**IDAHO AVENUE to LARPENTEUR AVENUE**  
 Sta. 35+62.69- Sta. 40+96.28  
 NOT TO SCALE

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*Ashleigh K. Rosa*  
**ASHLEIGH K. ROSA**  
 LICENSE #: 59517  
**9-8-2025**  
 DATE

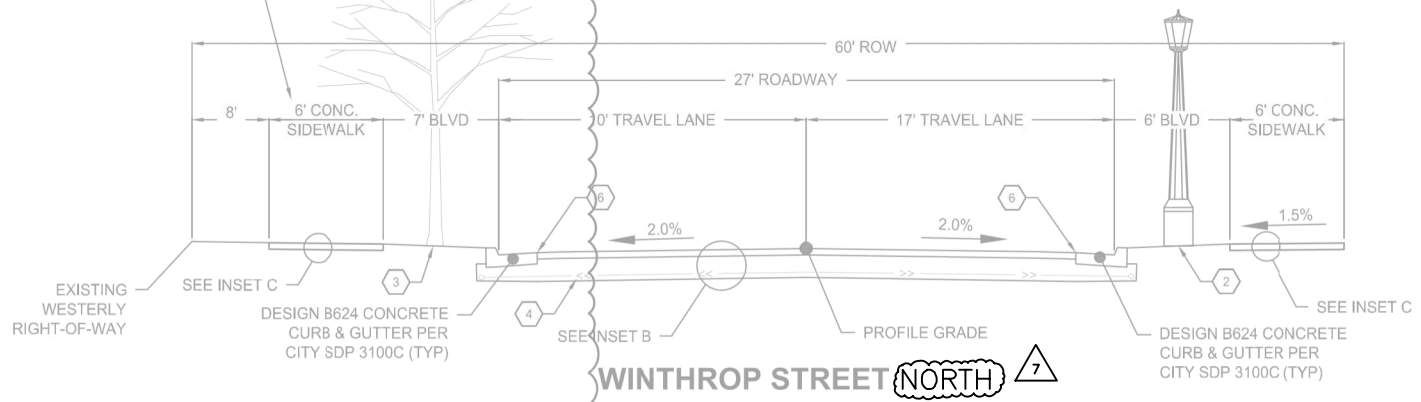


**WINTHROP STREET NORTH**  
**IDAHO AVENUE to LARPENTEUR AVENUE**  
 Sta. 35+55.31 - Sta. 35+62.69  
 NOT TO SCALE



**WINTHROP STREET NORTH**  
**IDAHO AVENUE to LARPENTEUR AVENUE**  
 Sta. 34+95.99- Sta. 35+55.31  
 NOT TO SCALE

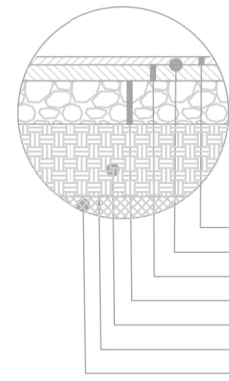
NOTE: SIDEWALK ENDS AT 34+37.5 LT.



**WINTHROP STREET NORTH**  
 Sta. 1+55.75 - Sta. 34+95.99  
 NOT TO SCALE

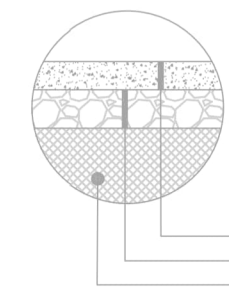
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- 4 8" SCHEDULE 40 PERFORATED PVC AT LOW POINTS (SEE DETAILS).
- 5 SEE PLANS FOR VARIANCES FROM TYPICAL SECTION
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NOTES:  
 • SEE DETAIL ON SHEET 45 FOR PRIVATE UTILITY LOCATION  
 • ALL BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" TOPSOIL.



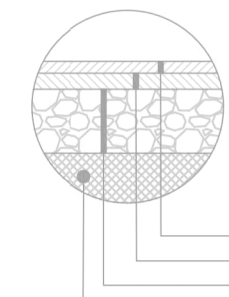
**INSET B**  
 NEIGHBORHOOD BITUMINOUS ROAD  
 NOT TO SCALE

- 1.5" BITUMINOUS WEAR COURSE, SPWEA240C
- MnDOT 2357 BITUMINOUS TACK COAT
- 2.5" BITUMINOUS NON-WEAR COURSE, SPNWB230C
- 6" MnDOT 3138 AGGREGATE BASE (CLASS 5)
- 18" SELECT GRANULAR EMBANKMENT
- MnDOT 3733 GEOTEXTILE FABRIC TYPE 5
- MnDOT 2112 SUBGRADE PREPARATION



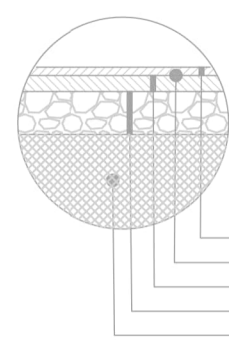
**INSET C**  
 CONCRETE SIDEWALK SECTION  
 NOT TO SCALE

- 4" CONCRETE SIDEWALK (MIX 3F52)
- 4" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
- MnDOT 2112 SUBGRADE PREPARATION



**INSET D**  
 BITUMINOUS DRIVEWAY/TRAIL SECTION  
 NOT TO SCALE

- 1.5" BITUMINOUS WEAR COURSE SPWEA240B
- 1.5" BITUMINOUS WEAR COURSE SPWEA240B
- 6" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
- MnDOT 2112 SUBGRADE PREPARATION



**INSET E**  
 BITUMINOUS ROADWAY SURFACE  
 NOT TO SCALE

- 1.5" BITUMINOUS WEAR COURSE, SPWEA240C
- MnDOT 2357 BITUMINOUS TACK COAT
- 2.5" BITUMINOUS NON-WEAR COURSE, SPNWB230C
- 6" MnDOT 3138 AGGREGATE BASE (CLASS 5)
- MnDOT 2112 SUBGRADE PREPARATION

REVISION 7 DESCRIPTION:  
 \* The base design (faded background) is a copy of the corresponding sheet from The Heights Site Redevelopment, Revision 6, dated 09/23/2024, produced by W&B. The certification below by Civil Methods, Inc. applies only to the Revision 7 modifications shown on this sheet, done in response to comments from the City of St. Paul. Detailed descriptions of Revision 7 changes are included in a separately provided comment log.

Tree locations depicted in the base design are from Revision 6 and have since been updated. Refer to Landscape Plans by LHB for tree locations.

COMMENT #15 ADDRESSED ON THIS SHEET (SEE COMMENT LOG); 6-212

NO.	DESCRIPTION	DATE
7	Address Rev 6 Comments	7/31/2025

DESIGNED:  
 DRAWN: KEB  
 CHECKED: DMP

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Kent E. Brander*  
**KENT E. BRANDER**  
 DATE: 07-31-2025  
 LIC. #: 44578

**CIVIL METHODS, INC.**  
 P.O. Box 28038  
 St. Paul, MN 55128  
 PH: 763-210-5713 www.civilmethods.com

OWNER:  
 Saint Paul  
 Port Authority  
 400 Wabasha St N  
 Ste 240  
 St. Paul, MN 55102  
 Phone 612-224-5686

PROJECT:  
**INFRASTRUCTURE  
 PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL,  
 MINNESOTA**

**TYPICAL  
 SECTIONS**

CURRENT REVISION SHEET NO.:  
**42-R**

REVISIONS			
NO.	DATE	DESCRIPTION	100% PLAN COMMENTS
3	03/29/2024	PLAN REVISIONS	
6	09/23/2024	100% PLAN COMMENTS	

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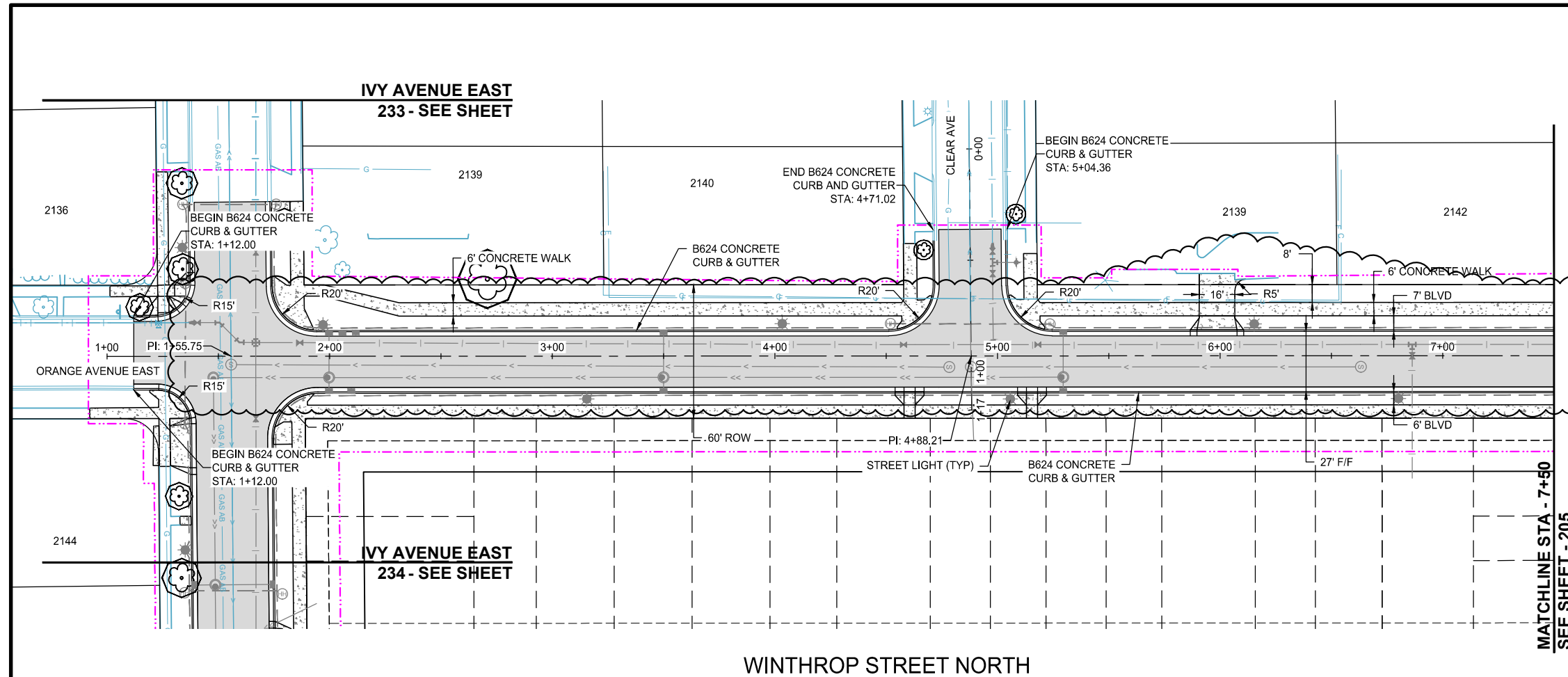
DATE: 03/29/2024 LIC. NO.: 23359

STREET CONSTRUCTION

INFRASTRUCTURE PLANS FOR:  
THE HEIGHTS  
SAINT PAUL, MINNESOTA

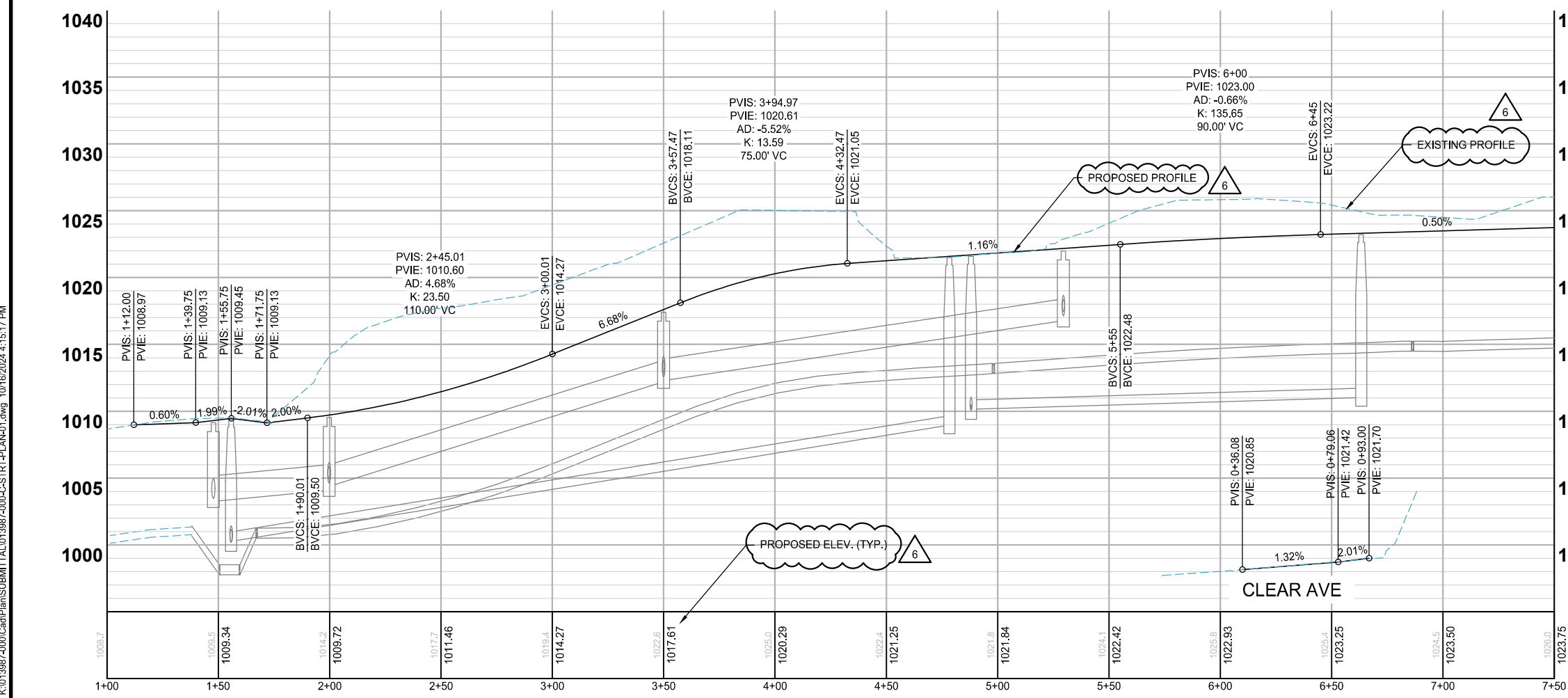
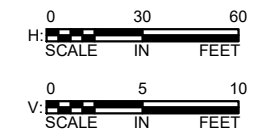
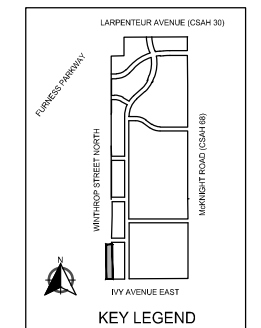
Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000



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DATE: 9-8-2025  
ASHLEIGH K ROSA  
LICENSE # 59517

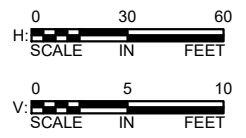
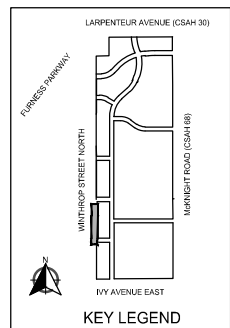


- NOTES:
- VERTICAL CURVES ARE DESIGNED FOR 25 MPH.
  - SEE SHEETS 261 TO 290 FOR PED. RAMP DETAILS.
  - SEE SITE PLANS FOR REINFORCED TURF AREAS.
  - DRIVEWAY LOCATIONS ARE PRELIMINARILY SHOWN. CONTRACTOR SHALL COORDINATE LOCATION OF DRIVEWAYS WITH THE ENGINEER PRIOR TO PLACEMENT OF CURB AND GUTTER.

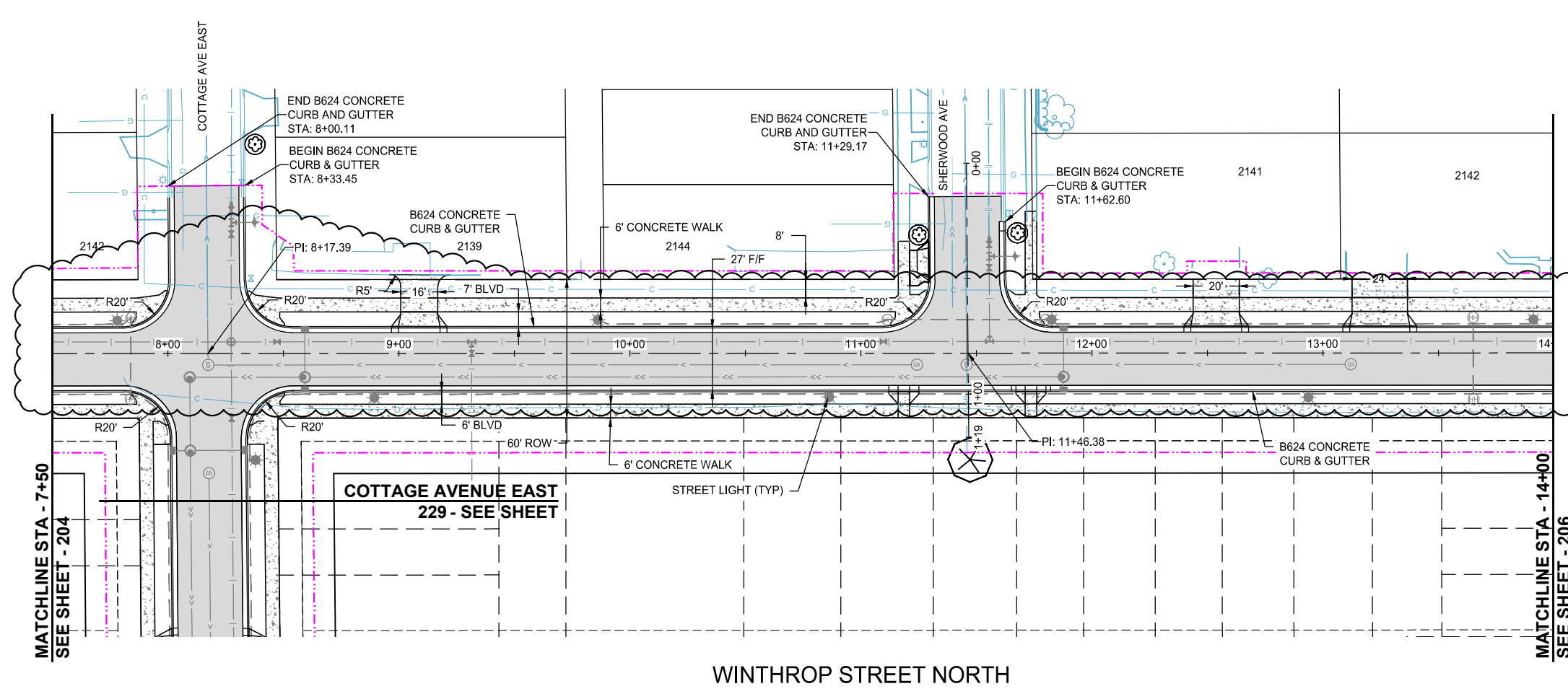
LEGEND

	PROPOSED CURB AND GUTTER
	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	CONSTRUCTION LIMITS
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED BITUMINOUS ROAD
	PROPOSED MILL AND OVERLAY
	PROPOSED BITUMINOUS TRAIL
	PROPOSED CONCRETE WALK/DRIVEWAY
	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

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REVISIONS			
NO.	DATE	DESCRIPTION	100% PLAN COMMENTS
3	03/29/2024	PLAN REVISIONS	
6	09/23/2024	100% PLAN COMMENTS	



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 LICENSE #: 59517

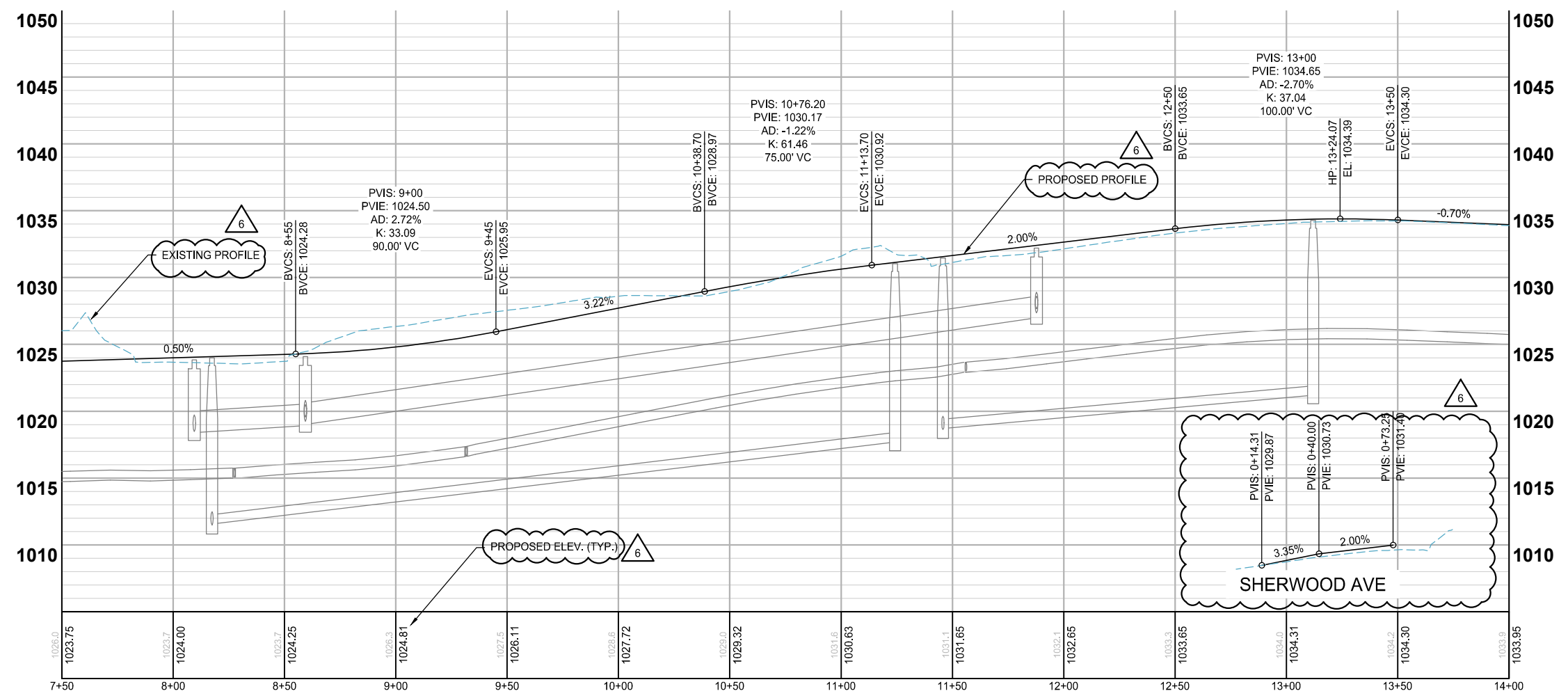
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PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

WINTHROP STREET NORTH

STREET CONSTRUCTION

- NOTES:
- VERTICAL CURVES ARE DESIGNED FOR 25 MPH.
  - SEE SHEETS 261 TO 290 FOR PED. RAMP DETAILS.
  - SEE SITE PLANS FOR REINFORCED TURF AREAS.
  - DRIVEWAY LOCATIONS ARE PRELIMINARILY SHOWN. CONTRACTOR SHALL COORDINATE LOCATION OF DRIVEWAYS WITH THE ENGINEER PRIOR TO PLACEMENT OF CURB AND GUTTER.



LEGEND

	PROPOSED CURB AND GUTTER
	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	CONSTRUCTION LIMITS
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED BITUMINOUS ROAD
	PROPOSED MILL AND OVERLAY
	PROPOSED BITUMINOUS TRAIL
	PROPOSED CONCRETE WALK/DRIVEWAY
	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

\*Note: As-built certifies through station 15+50 per permit 20240020102

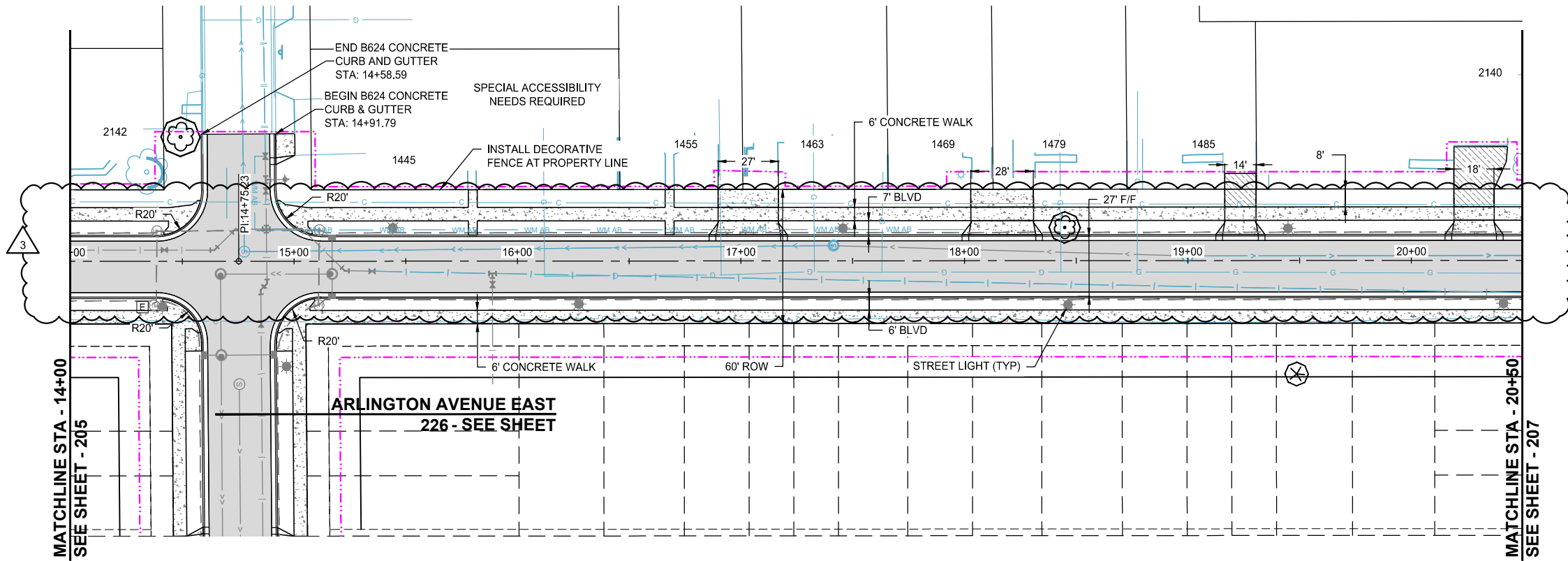
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 DESIGN BY: PJM  
 PLAN BY: DEH  
 CHECK BY: PTH

REVISIONS			
NO.	DATE	DESCRIPTION	100% PLAN COMMENTS
3	03/29/2024	PLAN REVISIONS	
6	09/23/2024	100% PLAN COMMENTS	

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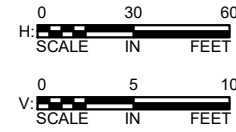
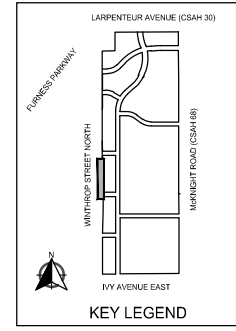
PAUL HORNBLY, P.E.



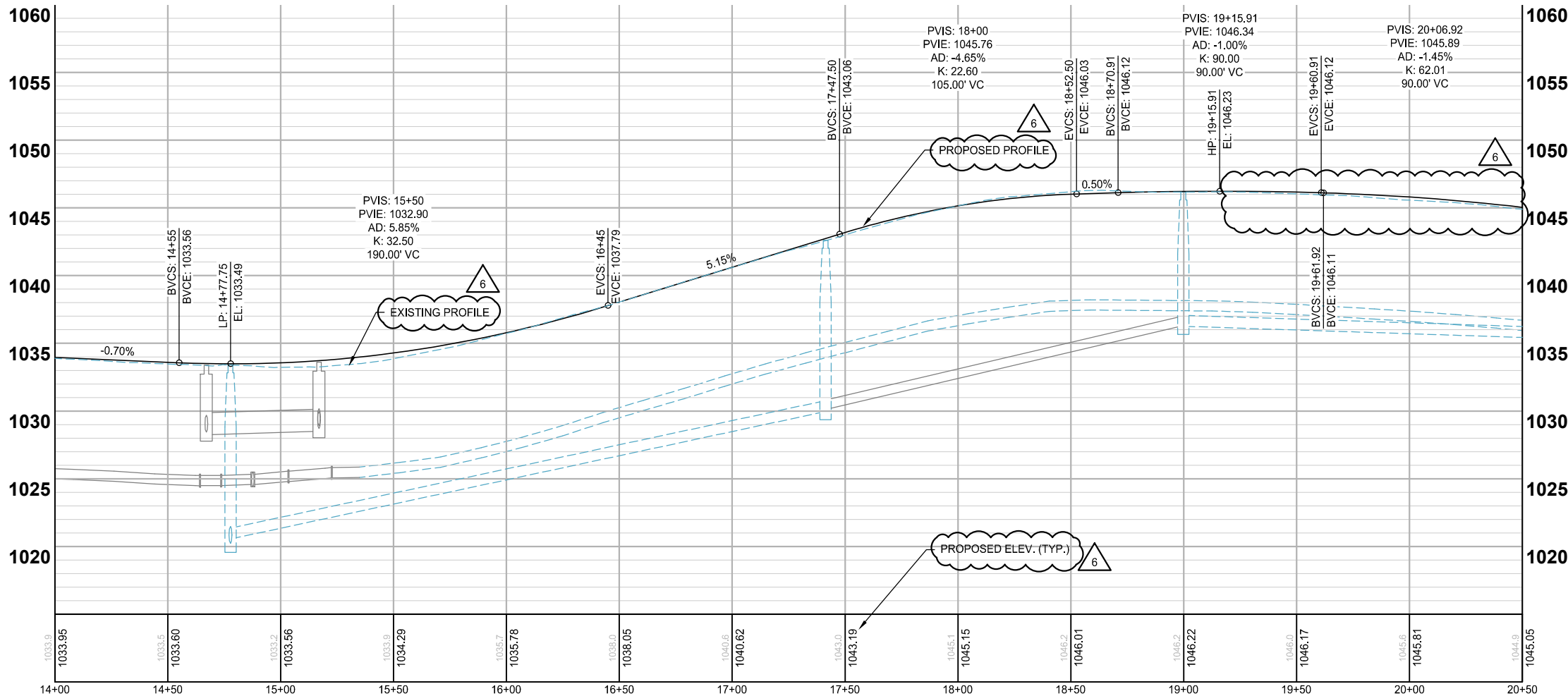
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ASHLEIGH K. RUSA  
 LICENSE # 39517

9-8-2025  
 DATE



WINTHROP STREET NORTH



- NOTES:
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  - SEE SHEETS 261 TO 290 FOR PED. RAMP DETAILS.
  - SEE SITE PLANS FOR REINFORCED TURF AREAS.
  - DRIVEWAY LOCATIONS ARE PRELIMINARILY SHOWN. CONTRACTOR SHALL COORDINATE LOCATION OF DRIVEWAYS WITH THE ENGINEER PRIOR TO PLACEMENT OF CURB AND GUTTER.

LEGEND

	PROPOSED CURB AND GUTTER
	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	CONSTRUCTION LIMITS
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
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	PROPOSED BITUMINOUS ROAD
	PROPOSED MILL AND OVERLAY
	PROPOSED BITUMINOUS TRAIL
	PROPOSED CONCRETE WALK/DRIVEWAY
	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

STREET CONSTRUCTION

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

REVISIONS			
NO.	DATE	DESCRIPTION	100% PLAN COMMENTS
3	03/29/2024	PLAN REVISIONS	
6	09/23/2024	100% PLAN COMMENTS	

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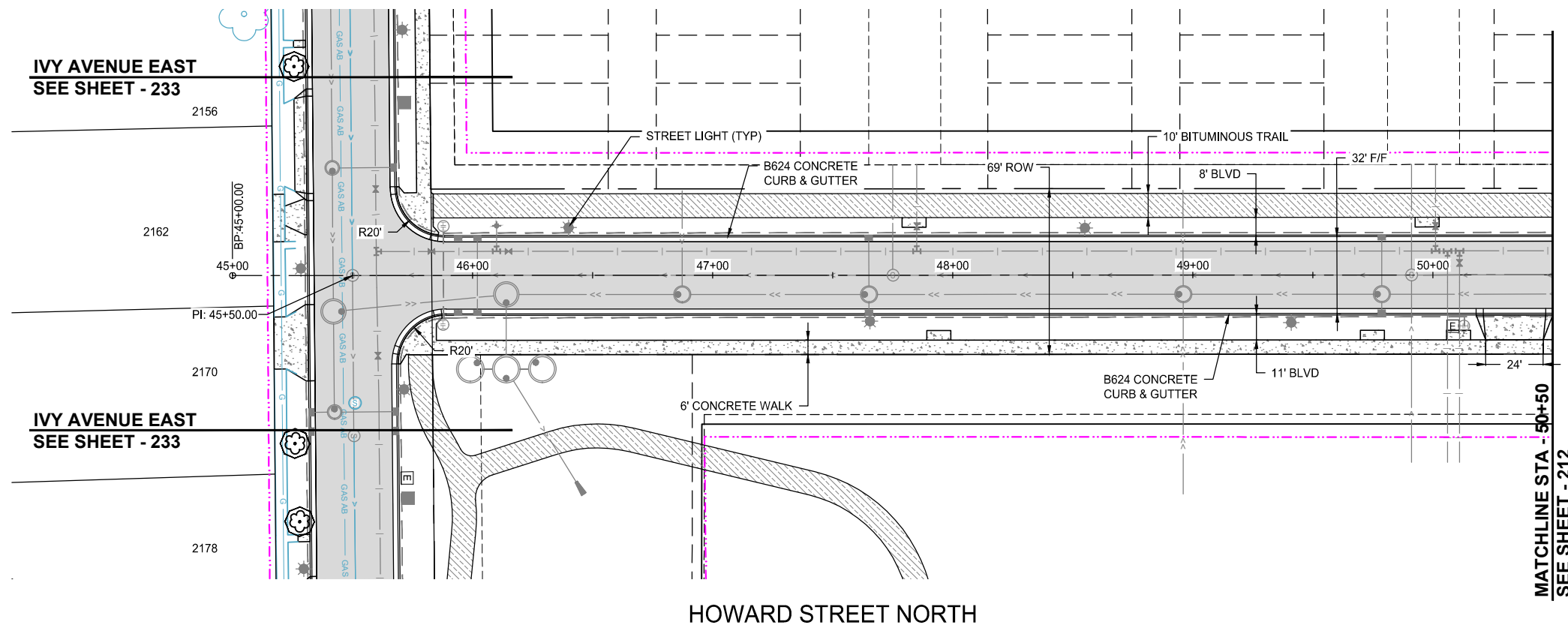
PAUL HORNBLY, P.E.  
DATE: 03/29/2024 LIC. NO.: 23359

STREET CONSTRUCTION

INFRASTRUCTURE PLANS FOR:  
THE HEIGHTS  
SAINT PAUL, MINNESOTA

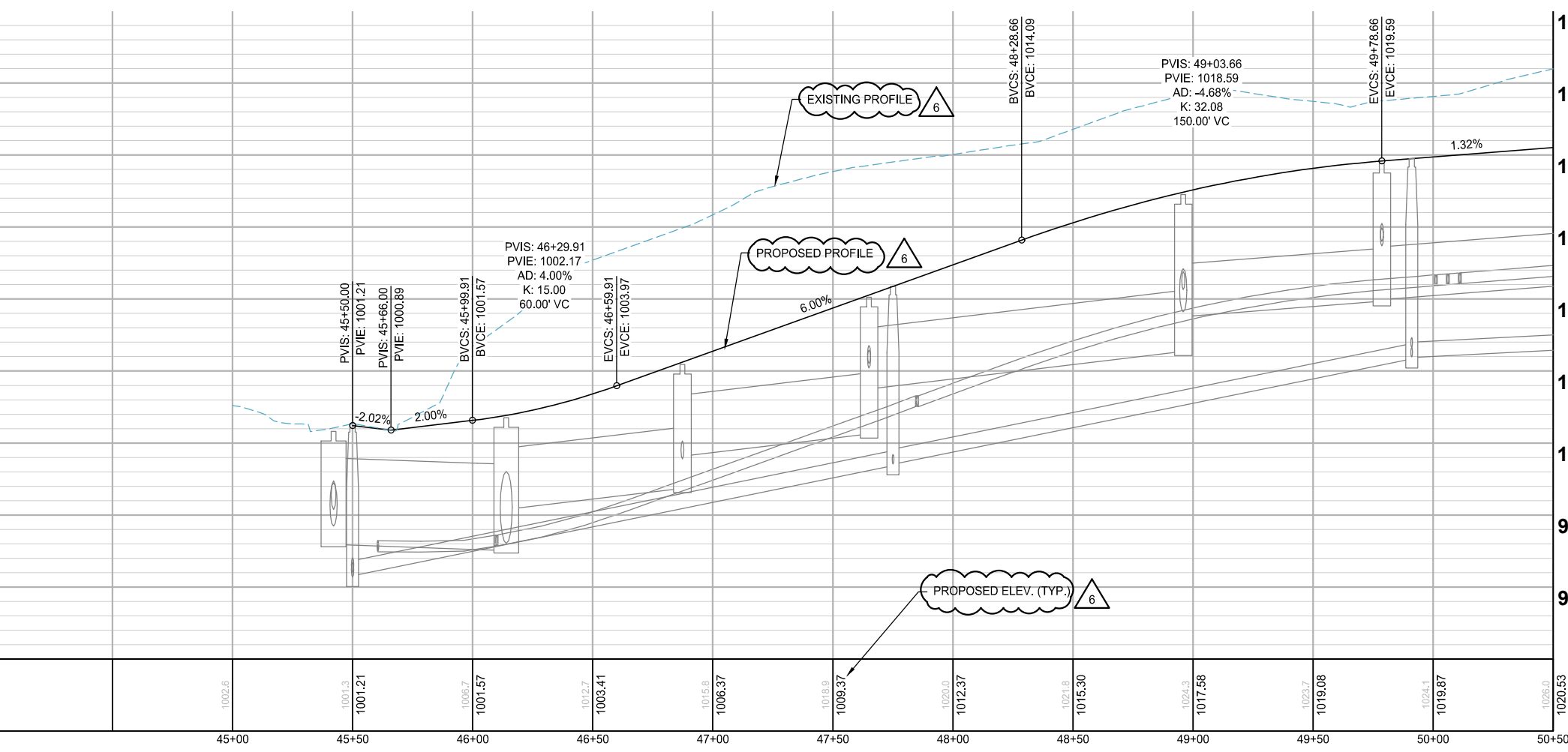
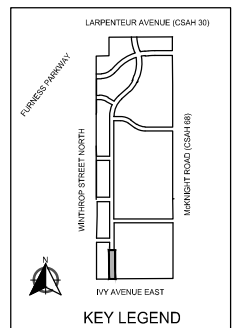
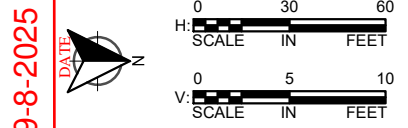
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WSB PROJECT NO.  
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ASHLEIGH K. ROSA  
LICENSE #: 59517



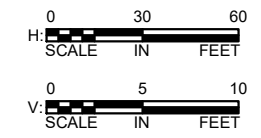
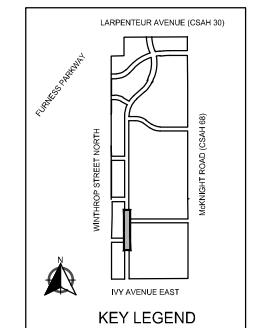
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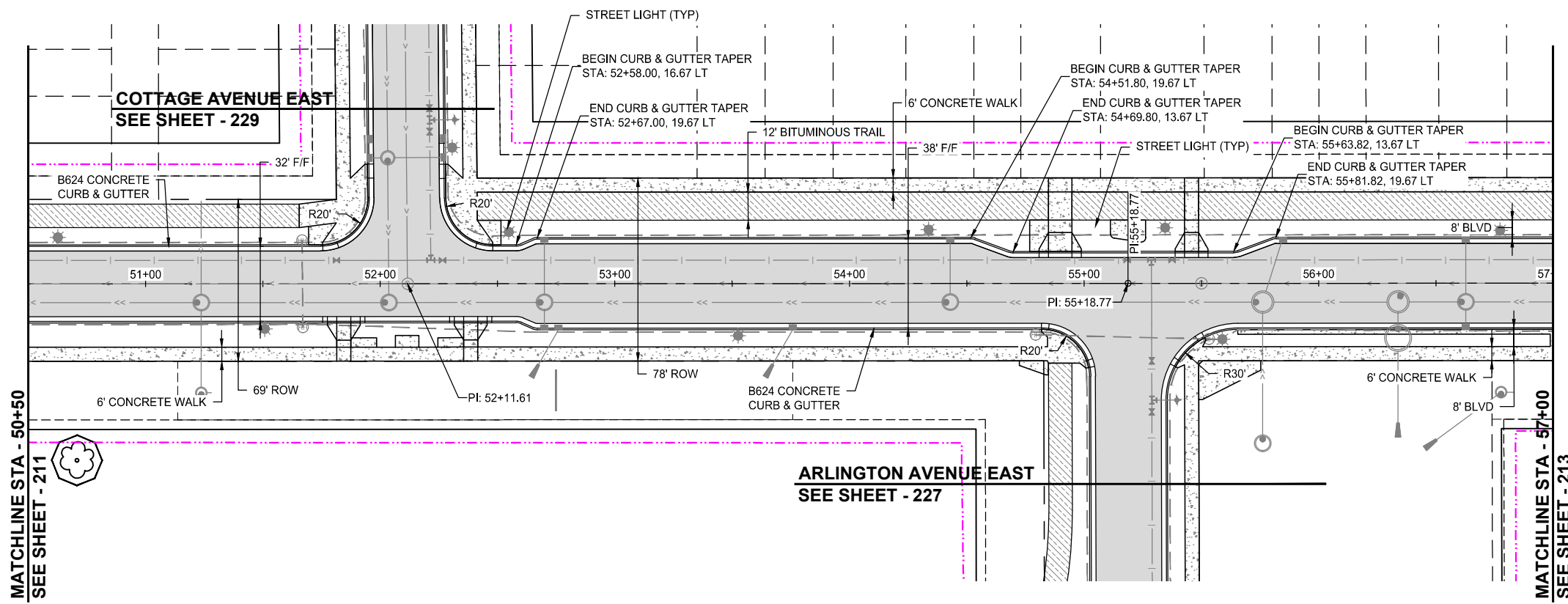
**LEGEND**

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	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

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REVISIONS			
NO.	DATE	DESCRIPTION	100% PLAN COMMENTS
3	03/29/2024	PLAN REVISIONS	
6	09/23/2024	100% PLAN COMMENTS	



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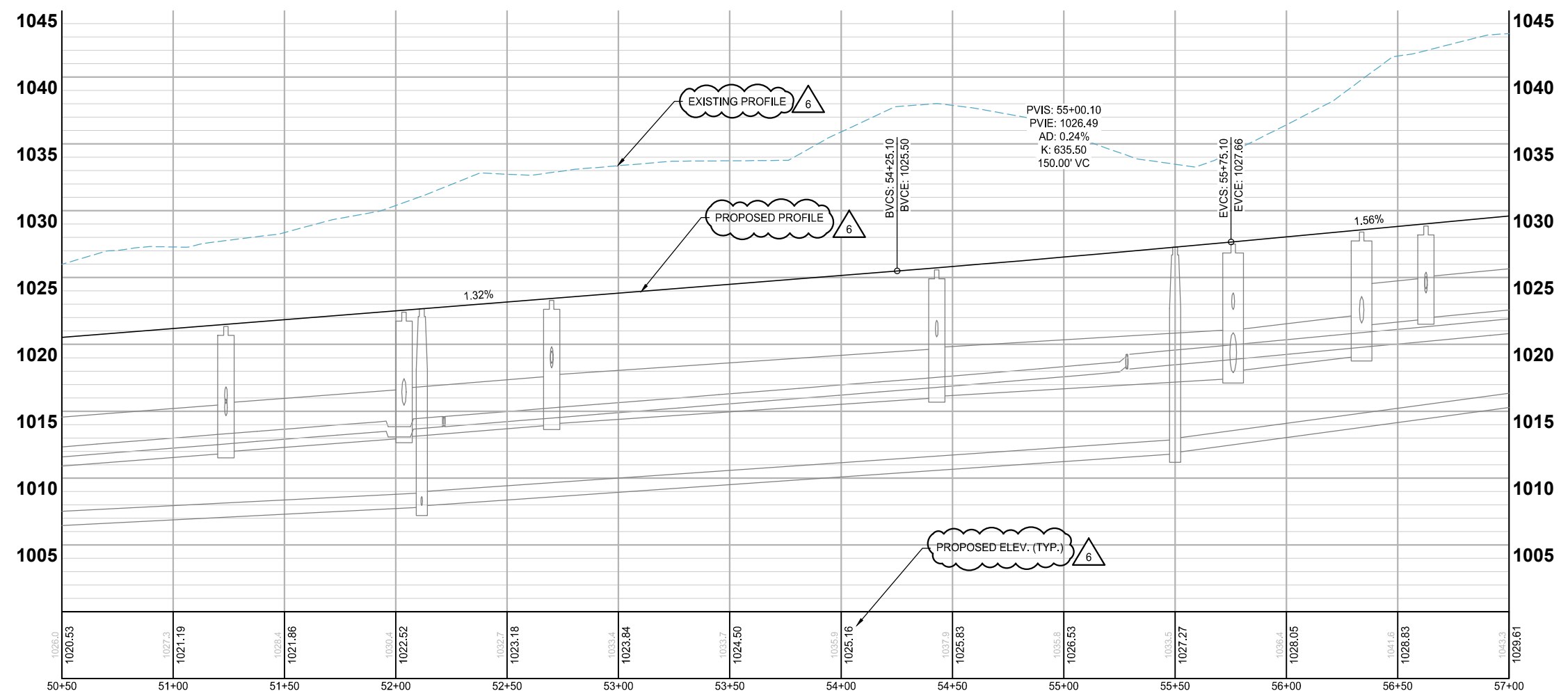
**9-8-2025**  
 DATE  
 ASHLEIGH K. ROSA  
 LICENSE #: 59517



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**PAUL HORNBY, P.E.**  
 DATE: 03/29/2024 LIC. NO.: 23359

HOWARD STREET NORTH



- NOTES:
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STREET CONSTRUCTION

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

\*Note: As-built certifies through station 59+50 per permit 20240020102



SCALE: AS SHOWN  
 DESIGN BY: PJM  
 PLAN BY: DEH  
 CHECK BY: PTH

REVISIONS			
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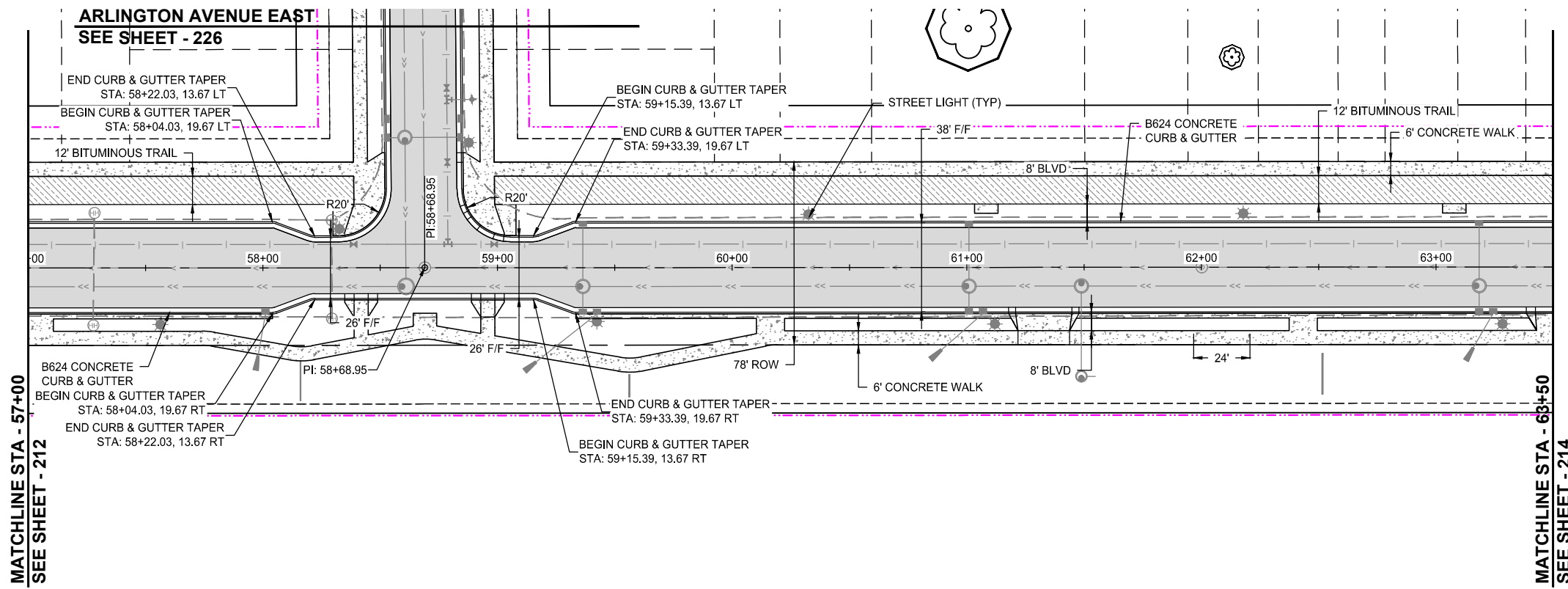
**PAUL HORNBLY, P.E.**  
 DATE: 03/29/2024 LIC. NO.: 23359

**STREET CONSTRUCTION**

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

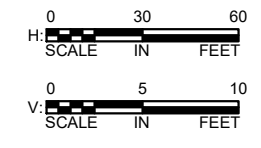
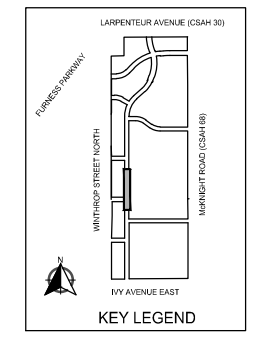
**Saint Paul Port Authority**  
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WSB PROJECT NO.  
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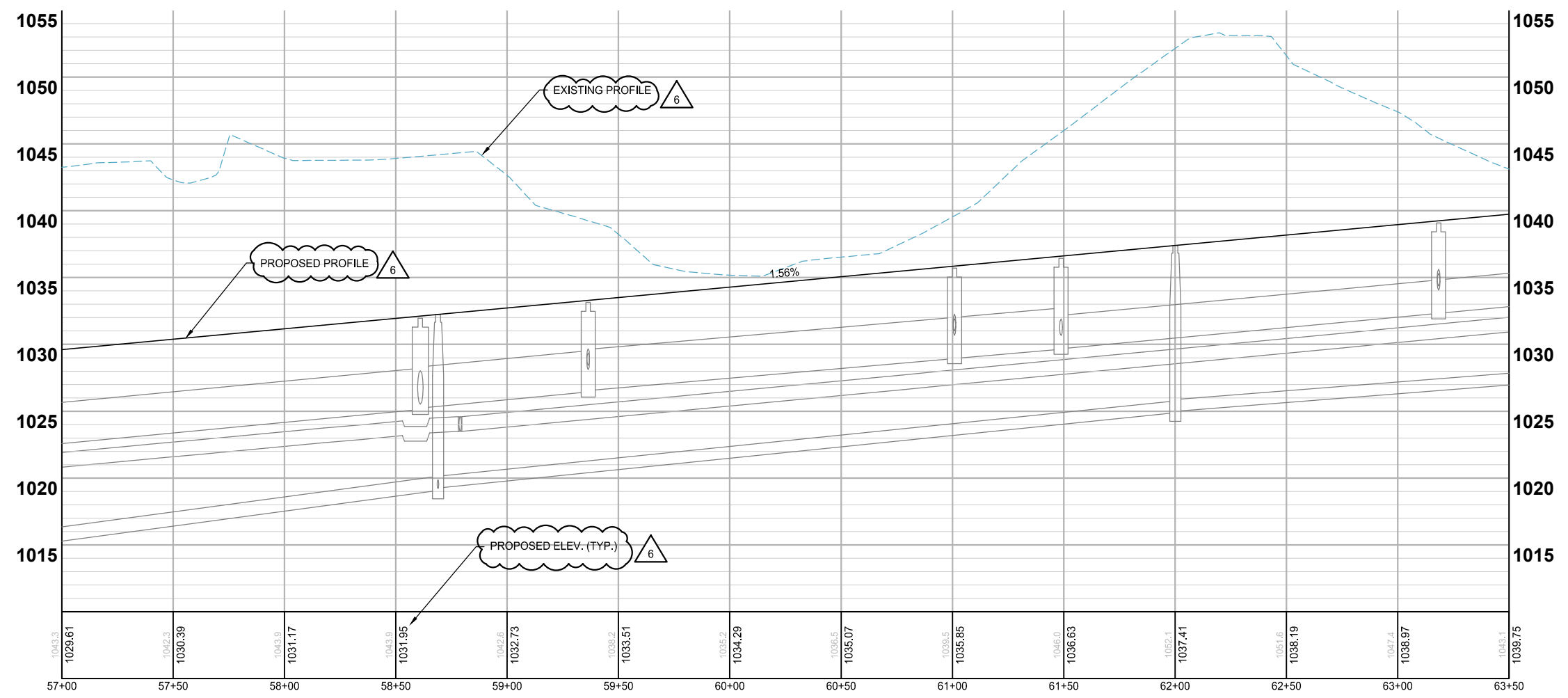


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**ASHLEIGH K. ROUSA**  
 DATE: 9-8-2025  
 LICENSE #: 59517



**HOWARD STREET NORTH**



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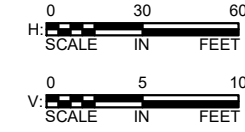
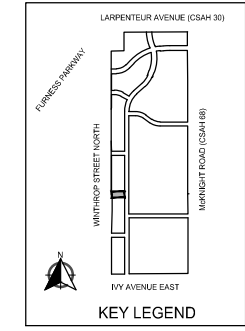
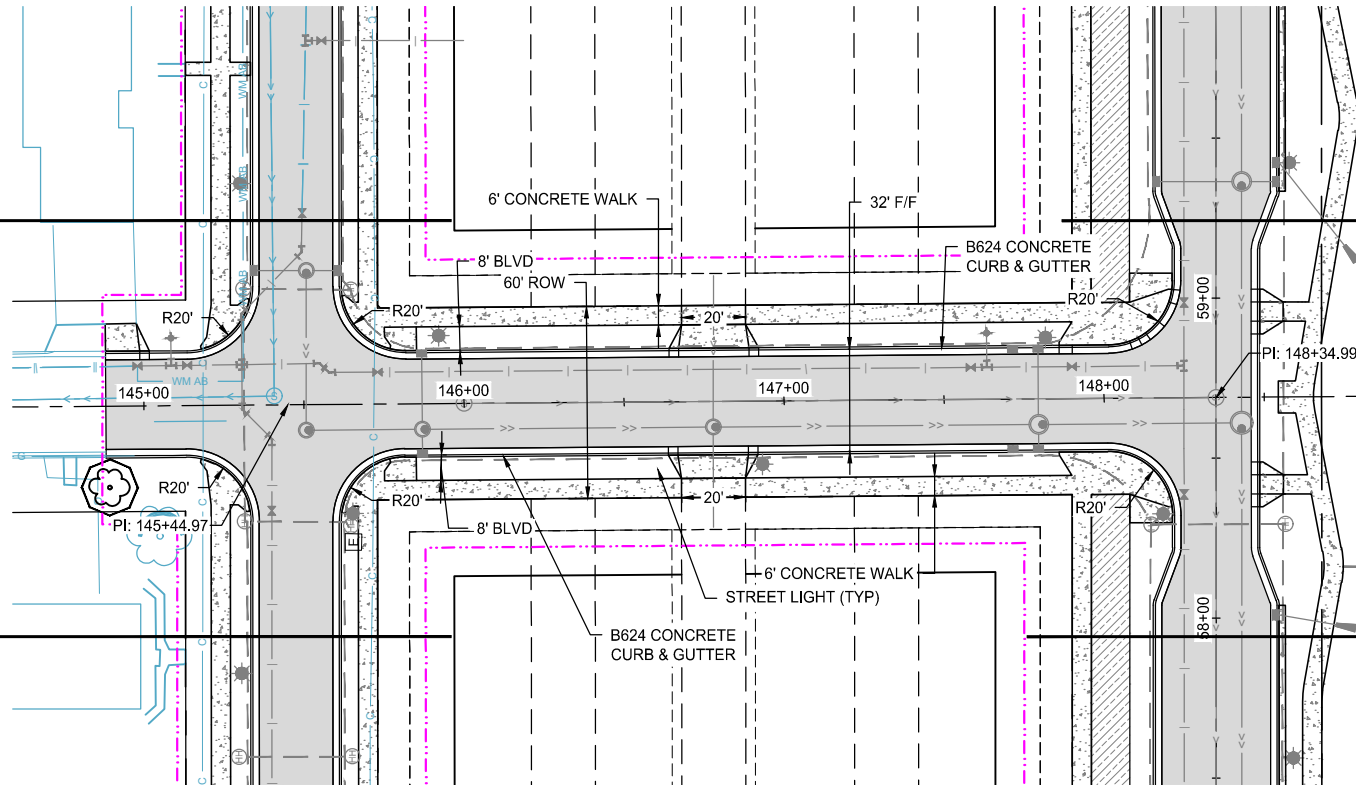
PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

WINTHROP STREET NORTH  
 SEE SHEET - 206

HOWARD STREET NORTH  
 213 - SEE SHEET

WINTHROP STREET NORTH  
 SEE SHEET - 205

HOWARD STREET NORTH  
 212 - SEE SHEET

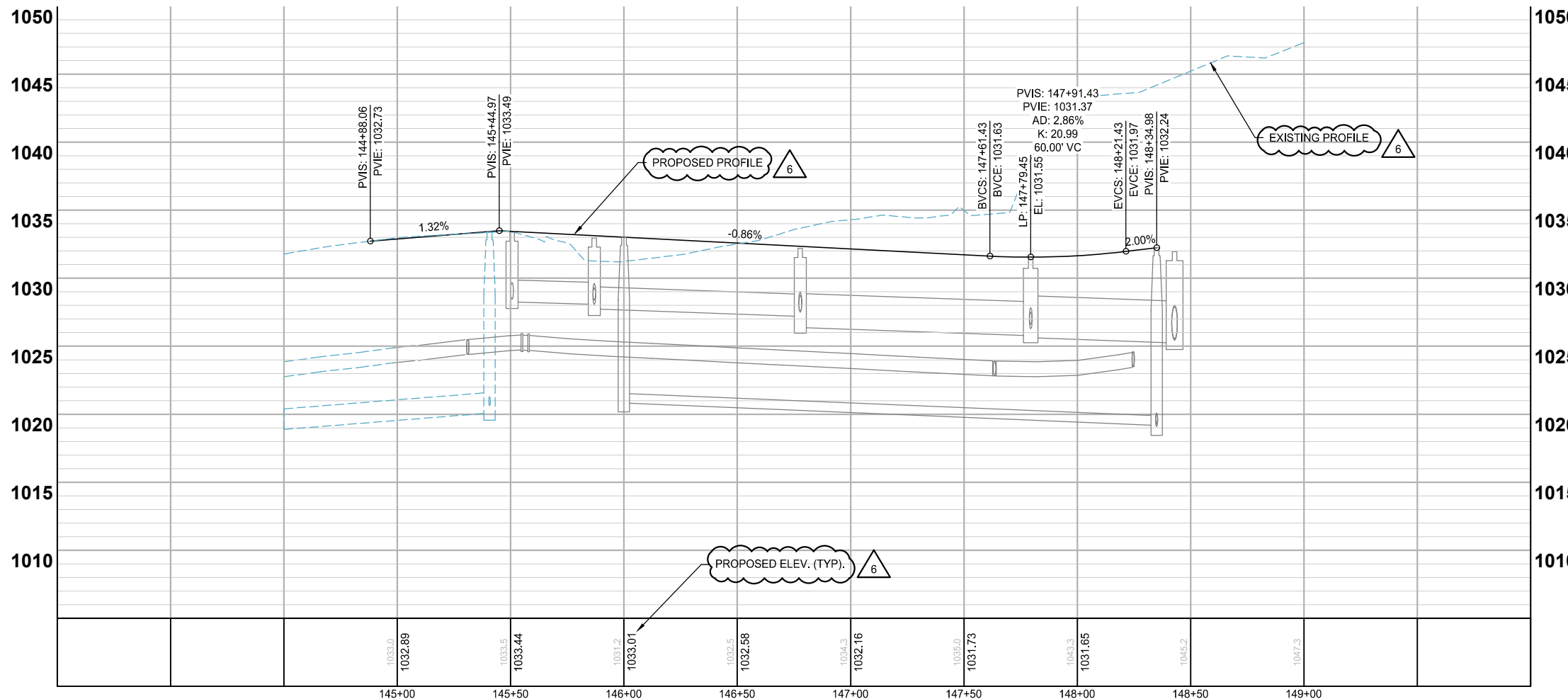


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*Ashleigh K. Rosa*  
 ASHLEIGH K. ROSA  
 LICENSE #: 59517

9-8-2025  
 DATE

ARLINGTON AVENUE EAST



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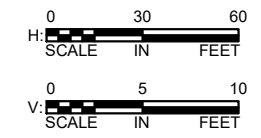
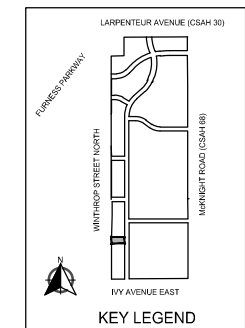
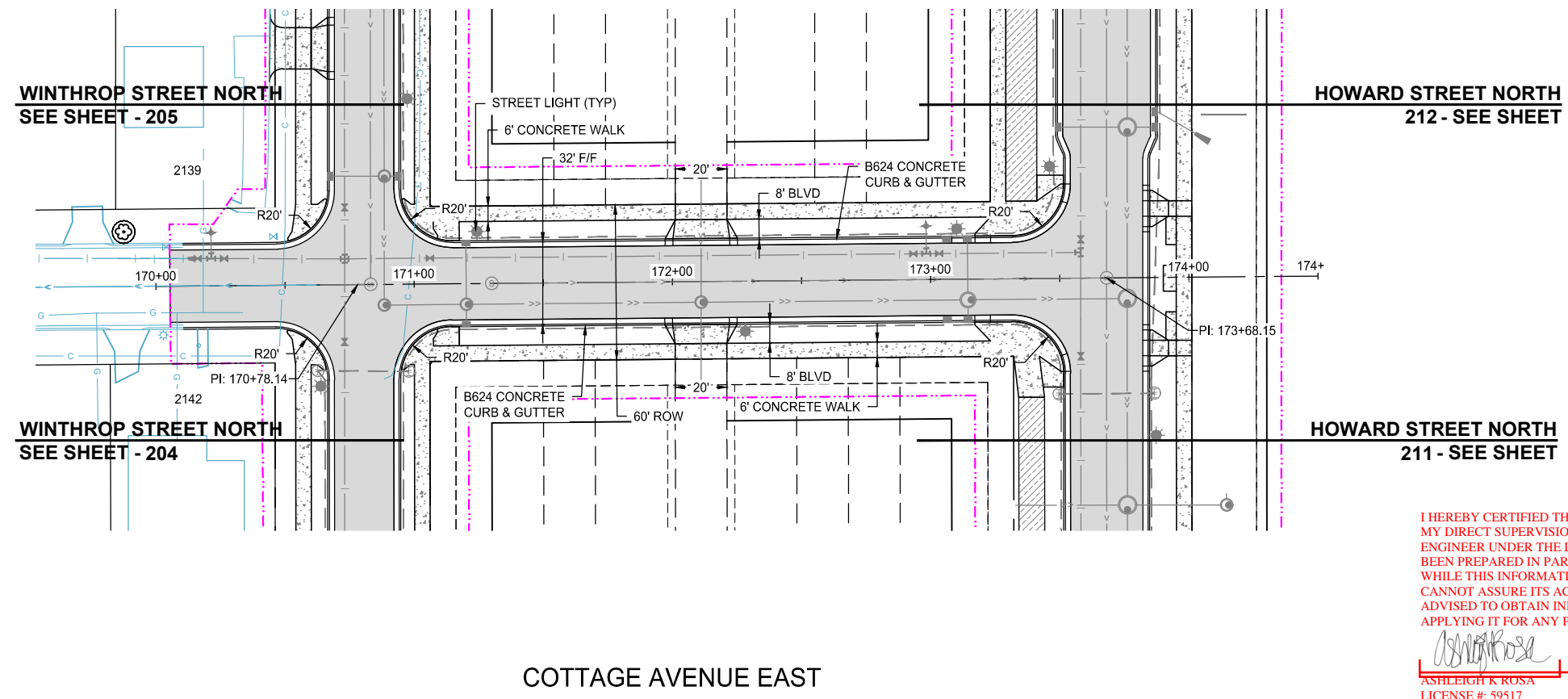
STREET CONSTRUCTION

INFRASTRUCTURE PLANS FOR:  
 THE HEIGHTS  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

SCALE: AS SHOWN  
 DESIGN BY: PJM  
 PLAN BY: DEH  
 CHECK BY: PTH



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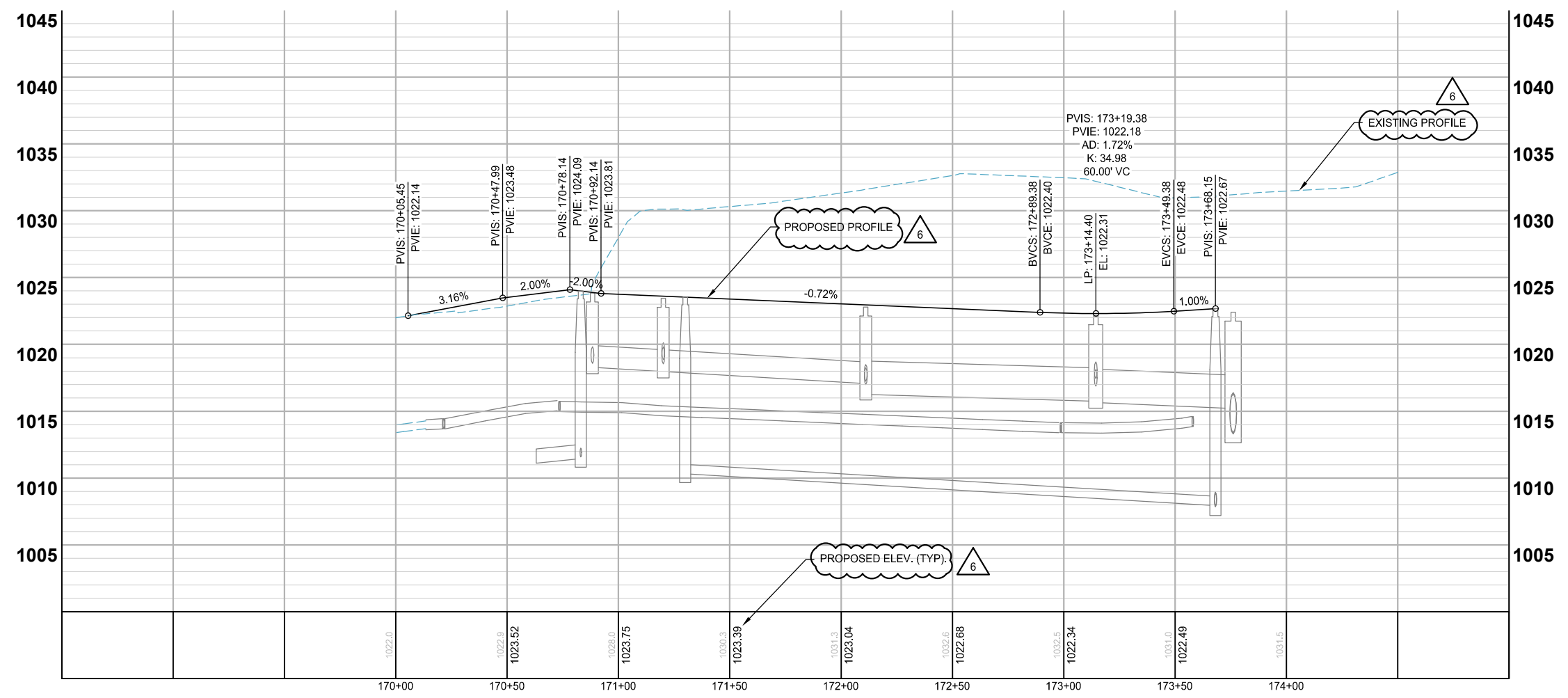
*Ashleigh K. Rosa*  
 ASHLEIGH K. ROSA  
 LICENSE #: 59517

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*Paul Hornby, P.E.*  
 PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

COTTAGE AVENUE EAST



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Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000



**CITY OF ST PAUL**  
 Department of Public Works  
 25 West 4th Street  
 1500 City Hall Annex  
 Saint Paul, MN 55102

# ORDINANCE PERMIT

OFFICE USE ONLY	
Application No.	8
Application Date	7/16/2024
SPR File #	23-064690
Permit No.	20240020102

**Type of Permit:**

<input checked="" type="checkbox"/> 01 Roadway	<input type="checkbox"/> 04 Storm Sewer Collection	<input type="checkbox"/> 07 Sanitary Sewer Special
<input checked="" type="checkbox"/> 02 Sidewalk	<input type="checkbox"/> 05 Storm Sewer Treatment	<input type="checkbox"/> 08 Retaining Wall
<input type="checkbox"/> 03 Traffic Appurtenances Including Signals, Lighting, EV Infrastructure, Signing, Striping	<input type="checkbox"/> 06 Sanitary Sewer Collection	<input type="checkbox"/> 09 Bridge

<b>Phase:</b> 4	<b>Location (Street On, From/To, and Adjacent Lots/Blocks):</b> Winthrop 1+71 to 15+50, Howard 45+66 to 59+50, Arlington residential 144+88 to 148+21 (stationing overlaps with Howard and Winthrop), Arlington light industrial 155+57 to 156+00 (overlaps with Howard), Cottage 170+05 to 173+49 (overlaps with Howard and Winthrop). Adjacent to Lot 1 Block 1, Lot 1 Block 2, Lot 1 Block 3 and Lot 1 Block 4.
--------------------	---

**Description of Work:** *[Include the description provided in the permit application and all subsequent amendments or revisions, which are hereby incorporated by reference.]*

Construction of Base Roadway and Roadway Sidewalks as described above. Work includes the bituminous trail on the west side of Howard. Boulevard restoration completed along Winthrop, Arlington, Cottage and west side of Howard. Temporary boulevard stabilization on east side of Howard where district stormwater swales occur. District stormwater swales and not part of the current work. Estimate of cost \$823,248 based on Designing Earth Contracting construction contract prices.

Sidewalk on the east side of Howard from Sta 45+66 to Sta 59+50 will not be installed as part of this permit.

<b>Applicant Contact Person:</b> Bob Barth	<b>Contact Person Title:</b> Dir. of Land Development	<b>Contact Person Telephone:</b> 651-485-1204	<b>Contact Person Email:</b> bbarth@wsbeng.com
---	--	--	---

<b>Bond Co.:</b> N/A	<b>Bond Amount:</b> N/A	<b>Bond No.:</b> N/A
-------------------------	----------------------------	-------------------------

<b>Insurance Co.:</b> United Fire & Cas., SFM Mutual Ins., Navigators Spec. Ins.	<b>Insurance Certificate No.:</b> 13021, 11347, 36056
---	--

**Permit Conditions:**

Construct all infrastructure to the signed and approved plan set, standards, specifications and practices. Complete and submit to the City of St. Paul the Closeout Checklist on page 2 of this permit.

*This permit is issued with the stipulation that the work of the permittee and related agents, employees and contractors shall conform in all respects to the City of Saint Paul Department of Public Works Ordinance Permit Process Document and the Department of Public Works List of Applicable Standards & Specifications. The permit shall be available for display at the site referred to herein and shown to any Police Officer or Inspector upon demand and does not authorize or allow for interference with the work of any Contract made or to be made with the City of Saint Paul.*

**THIS PERMIT MAY BE REVOKED AT ANY TIME  
 BY THE DIRECTOR OF PUBLIC WORKS**

<b>A PERMIT FOR THE ABOVE DESCRIBED CONSTRUCTION IS AUTHORIZED BY:</b>		
<u>David Kuebler, P. E.</u> Signature	<u>Department Lead</u> Title	<u>July 26, 2024</u> Date
<u>David Kuebler</u> Printed Name		

**PERMIT NUMBER** 20240020102

**ITEMS TO BE COMPLETED PRIOR TO ACCEPTANCE OF INFRASTRUCTURE  
AND RELEASE OF PERMIT**

**Prior to acceptance of any infrastructure and release of City permits, the following items must be completed to the satisfaction of the City:**

- Corrective (punch list) work completed;
  
- Original reproducible CAD and PDF as-built plans, signed by the Engineer of Record, provided to Public Works; Submittal of final copies of Metropolitan Council Environmental Services and MN Pollution Control Agency Permits (Sewer Extension, SAC Determination, etc.);
  
- Full compliance with project Quality Management Plan or other document(s) governing quality management and quality assurance;
  
- Documentation of compliance with all applicable City and non-City requirements including, but not limited to: City Public Works Right-of-Way office, Minnesota Pollution Control Agency, Capitol Region Watershed District, Ramsey-Washington Metro Watershed District.
  
  
- Documentation of roadway material test results at compaction of subgrade, grading and base, plant mix design report, insitu strength;
  
  
- Video provided to the City of all sanitary sewer mains and laterals, storm sewer mains and laterals, and any structural BMP's (pipe galleries, draintile, sediment control structures, weir structures, etc.) installed under any permit;
  
- Sewer Permit drawings provided to the City for paving connections or stubs installed for the purposes of providing service to private development(s). Sewer Permit drawings are in addition to Private Service Lateral Permit Drawings;
  
- Documentation that Public Works was notified for signal and lighting inspection of pole field layouts (staking), installed conduits and foundations, installed poles and wiring, signal head positioning, and signal phasing/detection verification;
  
- For infrastructure within parks: Documentation that the Parks Department has been notified of completion status;
  
- All applicable operation and maintenance manuals provided to Public Works; and
  
- Certificate of Compliance signed by Engineer of Record and provided to the City.

**RELEASE OF PERMIT:**

Permit No. 20240020102 Council Res. No. \_\_\_\_\_ Permit Date \_\_\_\_\_

Release Authorized by \_\_\_\_\_ Title \_\_\_\_\_

NO.	DATE	DESCRIPTION

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PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

TYPICAL SECTIONS

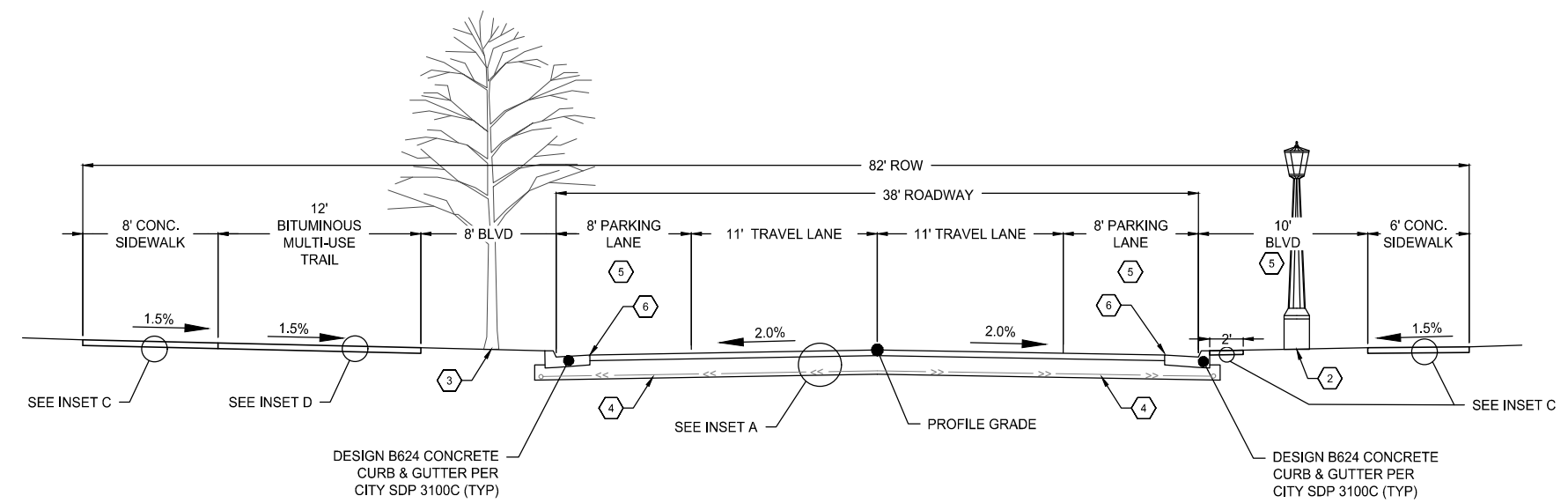
BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

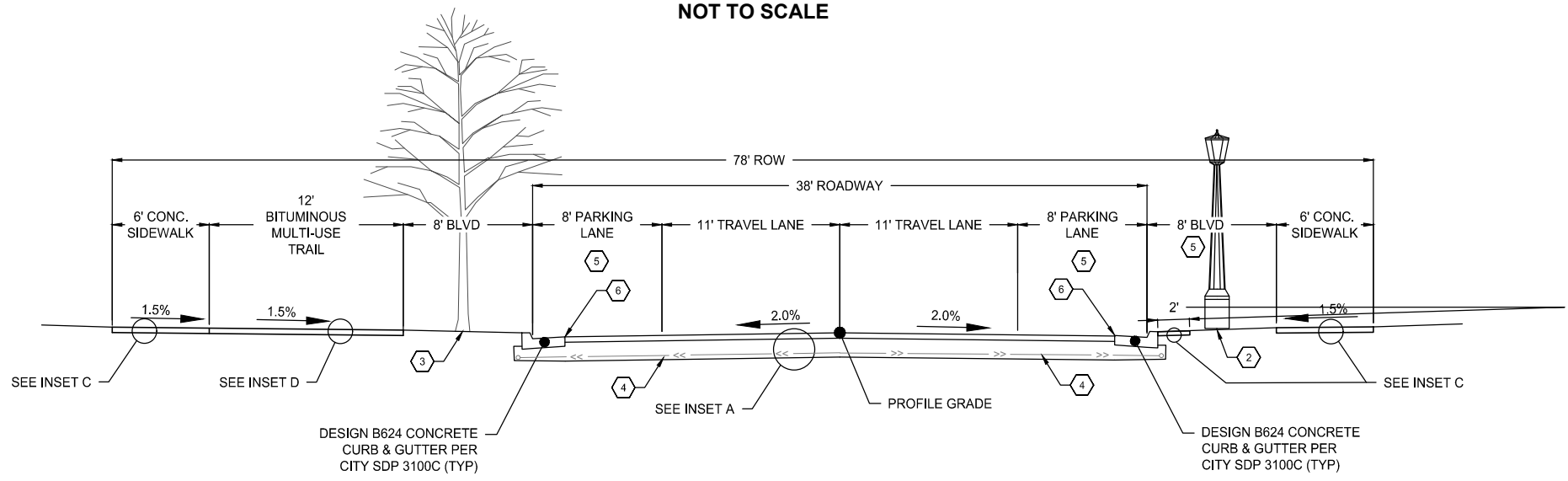
WSB PROJECT NO.  
 013987-000

- 1 CLEAR ZONES ADJACENT TO TRAILS TO BE MAINTAINED AT ALL TIMES. CLEAR ZONES SHALL BE GRADED AT 2% SLOPE TOWARD THE ROADWAY BACK OF CURB.
- 2 STREET LIGHT DETAIL AND LOCATION IS INCLUDED FOR GENERAL INFORMATION AND COMMENT. SEE STREET LIGHTING PLAN FOR ACTUAL LOCATIONS.
- 3 REFER TO LANDSCAPE PLANS FOR SPACING AND SPECIES OF BOULEVARD TREES. TREES TO BE PLANTED IN CENTER OF BOULEVARD BOTH SIDES OF THE STREET. TREES MUST BE A MINIMUM OF 2' FROM MULTI-USE TRAIL AND BACK OF CURB. BOULEVARD TO BE GRADED TO 2% SLOPE TOWARDS CURB.
- 4 8" SCHEDULE 40 PERFORATED PVC AT LOW POINTS (SEE DETAILS).
- 5 SEE PLANS FOR VARIANCES FROM TYPICAL SECTION
- 6 APPLY MASTIC JOINT ADHESIVE TO TOE OF CURB PRIOR TO FINAL LIFT OF PAVEMENT (SEE SPECIFICATION 2331).

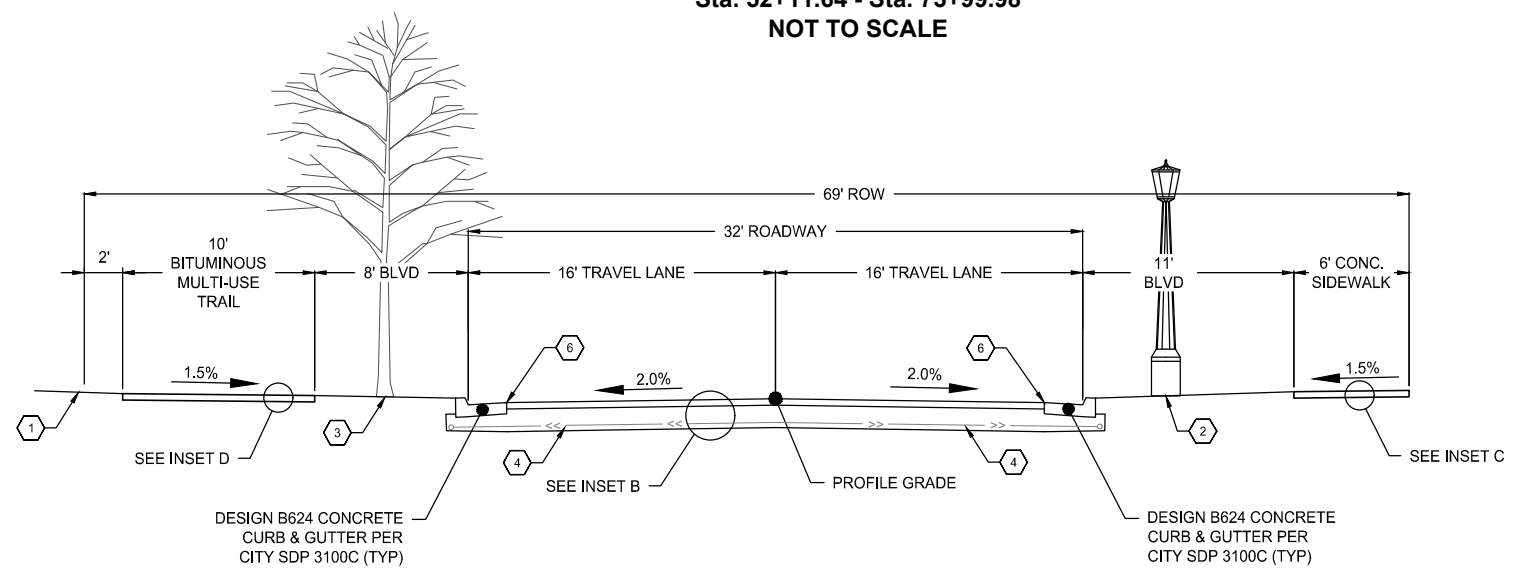
NOTES:  
 • SEE DETAIL ON SHEET 45 FOR PRIVATE UTILITY LOCATION  
 • ALL BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" TOPSOIL.



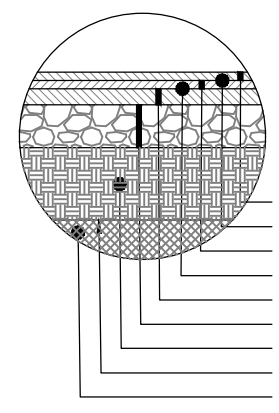
**HOWARD STREET NORTH**  
 Sta. 73+99.98 - Sta. 78+92.17  
 NOT TO SCALE



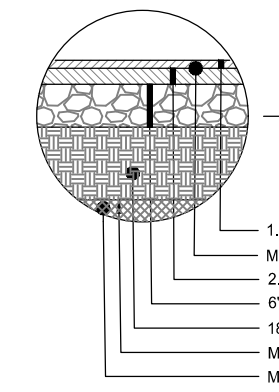
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 Sta. 52+11.64 - Sta. 73+99.98  
 NOT TO SCALE



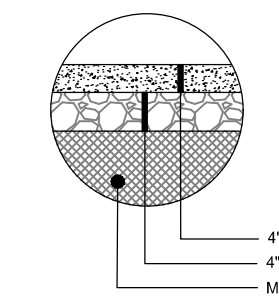
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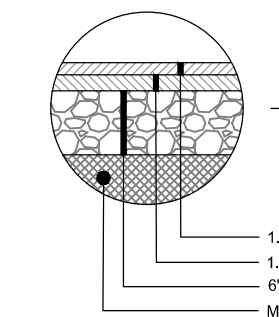
- INSET A**  
 HEAVY DUTY BITUMINOUS ROAD  
 NOT TO SCALE
- 1.5" BITUMINOUS WEAR COURSE, SPWEB340C
  - MnDOT 2357 BITUMINOUS TACK COAT
  - 1.5" BITUMINOUS WEAR COURSE, SPWEB340C
  - MnDOT 2357 BITUMINOUS TACK COAT
  - 2" BITUMINOUS BASE COURSE, SPNWB330B
  - 9" MnDOT 3138 AGGREGATE BASE (CLASS 5)
  - 24" SELECT GRANULAR EMBANKMENT
  - MnDOT 3733 GEOTEXTILE FABRIC TYPE 5
  - MnDOT 2112 SUBGRADE PREPARATION



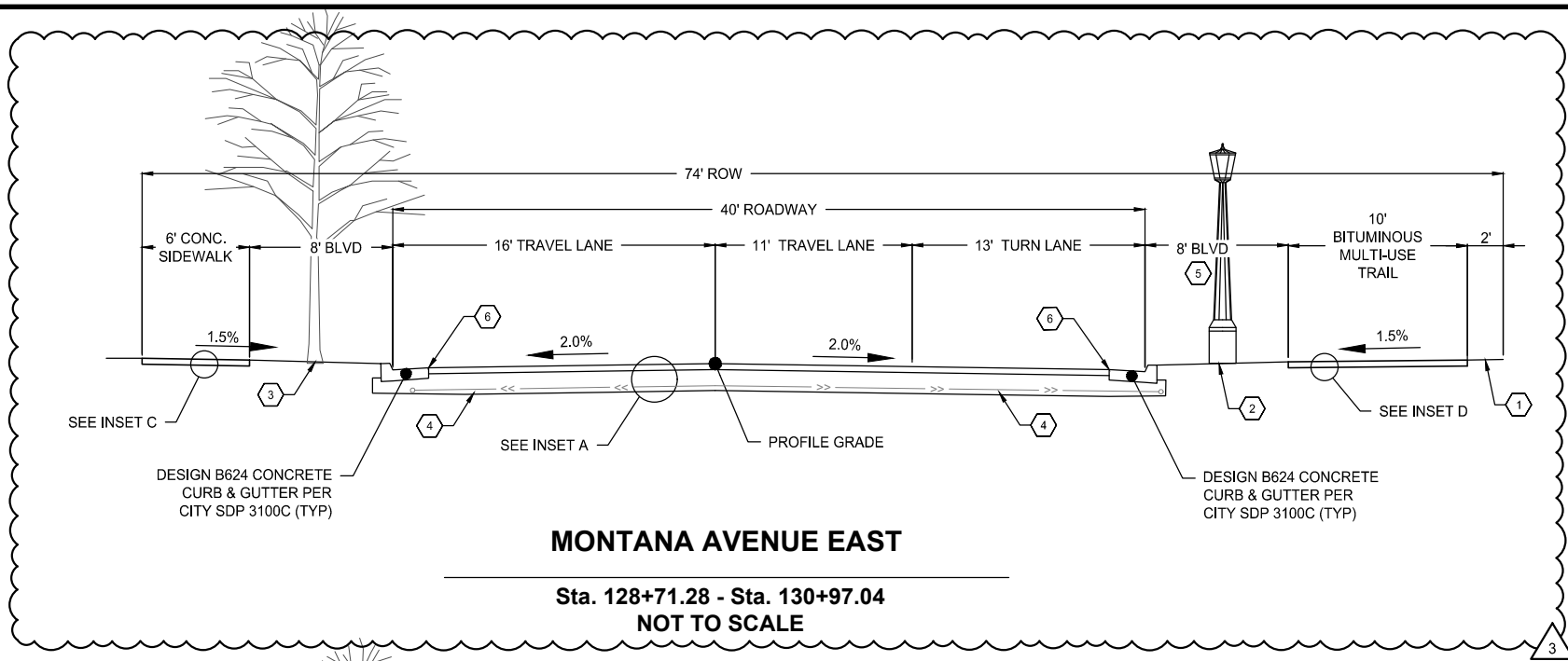
- INSET B**  
 NEIGHBORHOOD BITUMINOUS ROAD  
 NOT TO SCALE
- 1.5" BITUMINOUS WEAR COURSE, SPWEA240C
  - MnDOT 2357 BITUMINOUS TACK COAT
  - 2.5" BITUMINOUS NON-WEAR COURSE, SPNWB230C
  - 6" MnDOT 3138 AGGREGATE BASE (CLASS 5)
  - 18" SELECT GRANULAR EMBANKMENT
  - MnDOT 3733 GEOTEXTILE FABRIC TYPE 5
  - MnDOT 2112 SUBGRADE PREPARATION



- INSET C**  
 CONCRETE SIDEWALK SECTION  
 NOT TO SCALE
- 4" CONCRETE SIDEWALK (MIX 3F52)
  - 4" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
  - MnDOT 2112 SUBGRADE PREPARATION

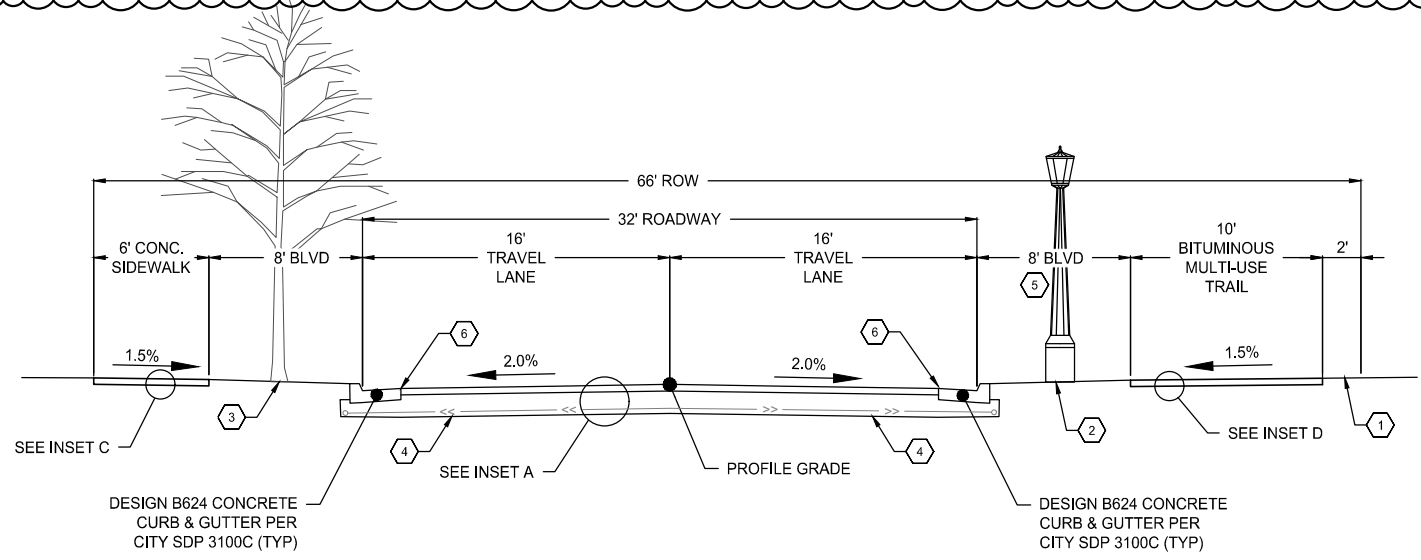


- INSET D**  
 BITUMINOUS DRIVEWAY/TRAIL SECTION  
 NOT TO SCALE
- 1.5" BITUMINOUS WEAR COURSE SPWEA240B
  - 1.5" BITUMINOUS WEAR COURSE SPWEA240B
  - 6" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
  - MnDOT 2112 SUBGRADE PREPARATION



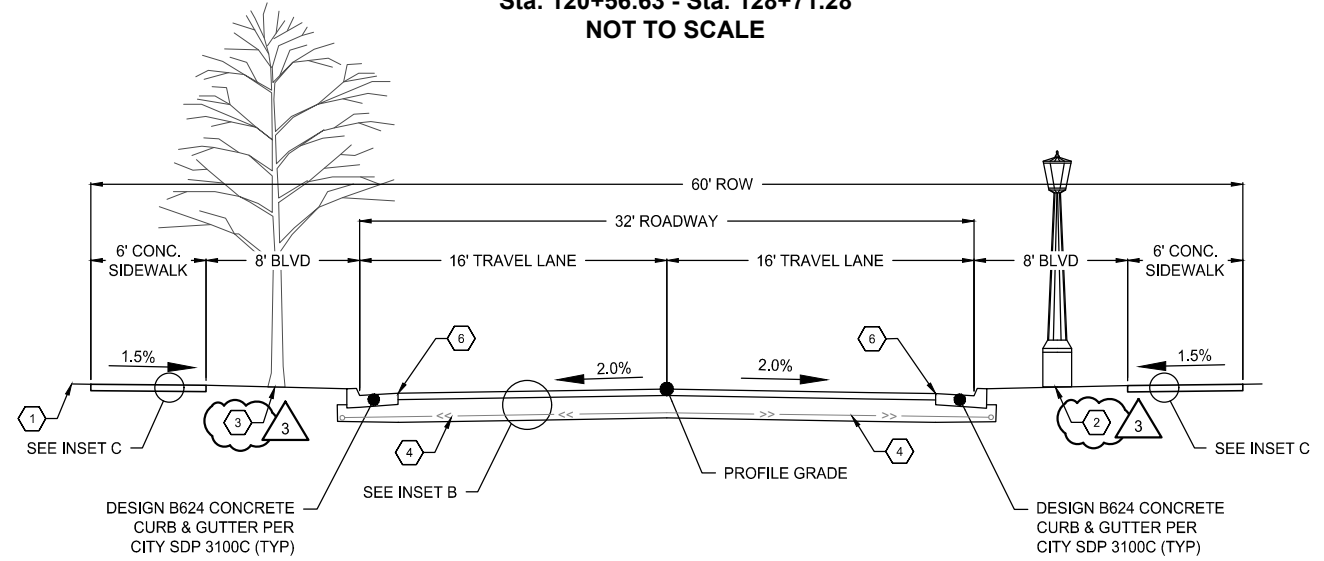
**MONTANA AVENUE EAST**

Sta. 128+71.28 - Sta. 130+97.04  
NOT TO SCALE



**MONTANA AVENUE EAST**

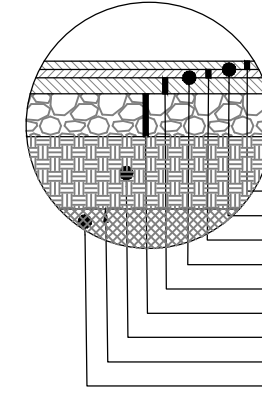
Sta. 120+56.63 - Sta. 128+71.28  
NOT TO SCALE



**COTTAGE AVENUE EAST**

Sta. 170+78.14 - Sta. 173+68.15  
NOT TO SCALE

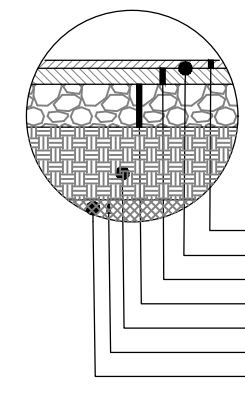
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  - 5 SEE PLANS FOR VARIANCES FROM TYPICAL SECTION
  - 6 APPLY MASTIC JOINT ADHESIVE TO TOE OF CURB PRIOR TO FINAL LIFT OF PAVEMENT (SEE SPECIFICATION 2331).
- NOTES:
- SEE DETAIL ON SHEET 45 FOR PRIVATE UTILITY LOCATION
  - ALL BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" TOPSOIL.



**INSET A**

HEAVY DUTY BITUMINOUS ROAD  
NOT TO SCALE

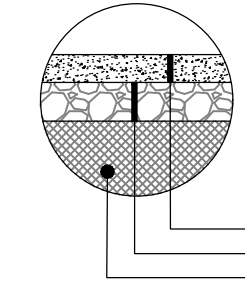
- 1.5" BITUMINOUS WEAR COURSE, SPWEB340C
- MnDOT 2357 BITUMINOUS TACK COAT
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- MnDOT 2357 BITUMINOUS TACK COAT
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- 9" MnDOT 3138 AGGREGATE BASE (CLASS 5)
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- MnDOT 3733 GEOTEXTILE FABRIC TYPE 5
- MnDOT 2112 SUBGRADE PREPARATION



**INSET B**

NEIGHBORHOOD BITUMINOUS ROAD  
NOT TO SCALE

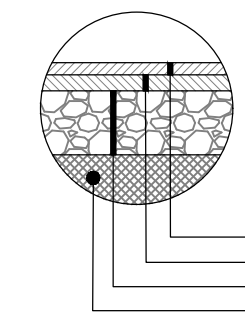
- 1.5" BITUMINOUS WEAR COURSE, SPWEA240C
- MnDOT 2357 BITUMINOUS TACK COAT
- 2.5" BITUMINOUS NON-WEAR COURSE, SPNWB230C
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- MnDOT 2112 SUBGRADE PREPARATION



**INSET C**

CONCRETE SIDEWALK SECTION  
NOT TO SCALE

- 4" CONCRETE SIDEWALK (MIX 3F52)
- 4" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
- MnDOT 2112 SUBGRADE PREPARATION



**INSET D**

BITUMINOUS DRIVEWAY/TRAIL SECTION  
NOT TO SCALE

- 1.5" BITUMINOUS WEAR COURSE SPWEA240B
- 1.5" BITUMINOUS WEAR COURSE SPWEA240B
- 6" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
- MnDOT 2112 SUBGRADE PREPARATION

REVISIONS		DESCRIPTION	PLAN REVISIONS
NO.	DATE		
3	03/29/2024		

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PAUL HORNBY, P.E.  
DATE: 03/29/2024 LIC. NO.: 23359

**TYPICAL SECTIONS**

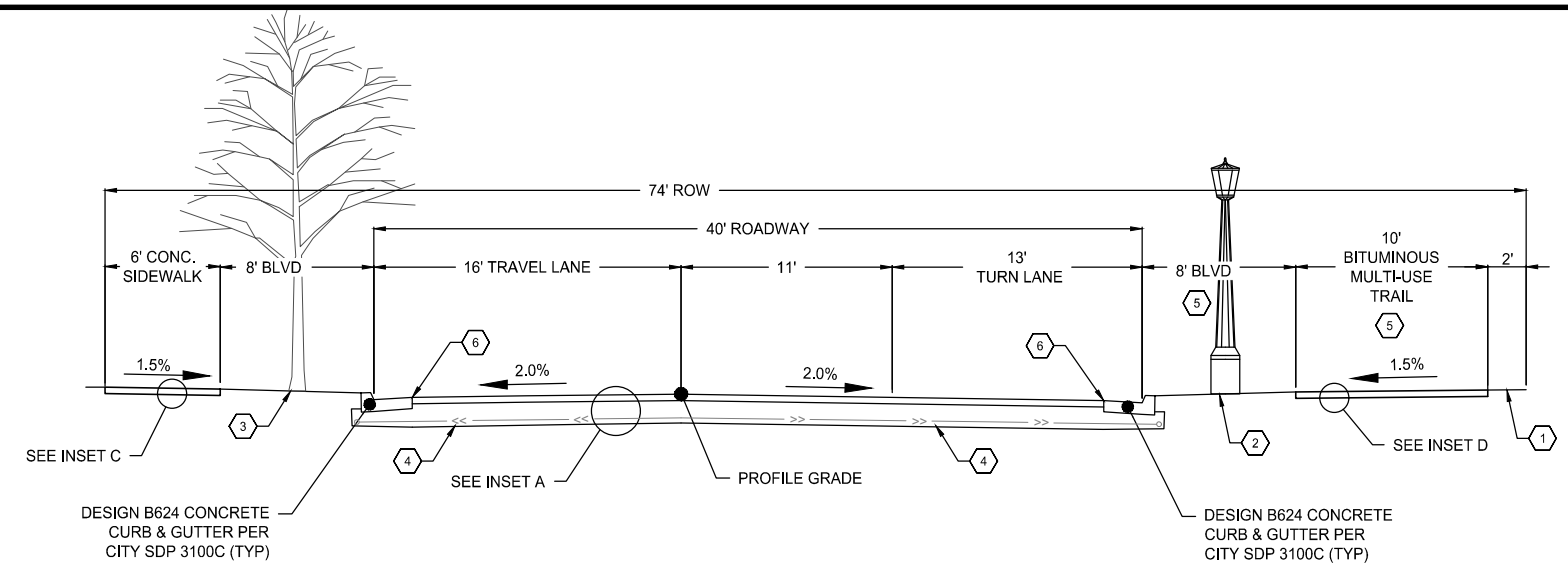
BID PACKAGE NO. 2  
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SAINT PAUL, MINNESOTA

Saint Paul  
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Phone 612-224-5686

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013987-000

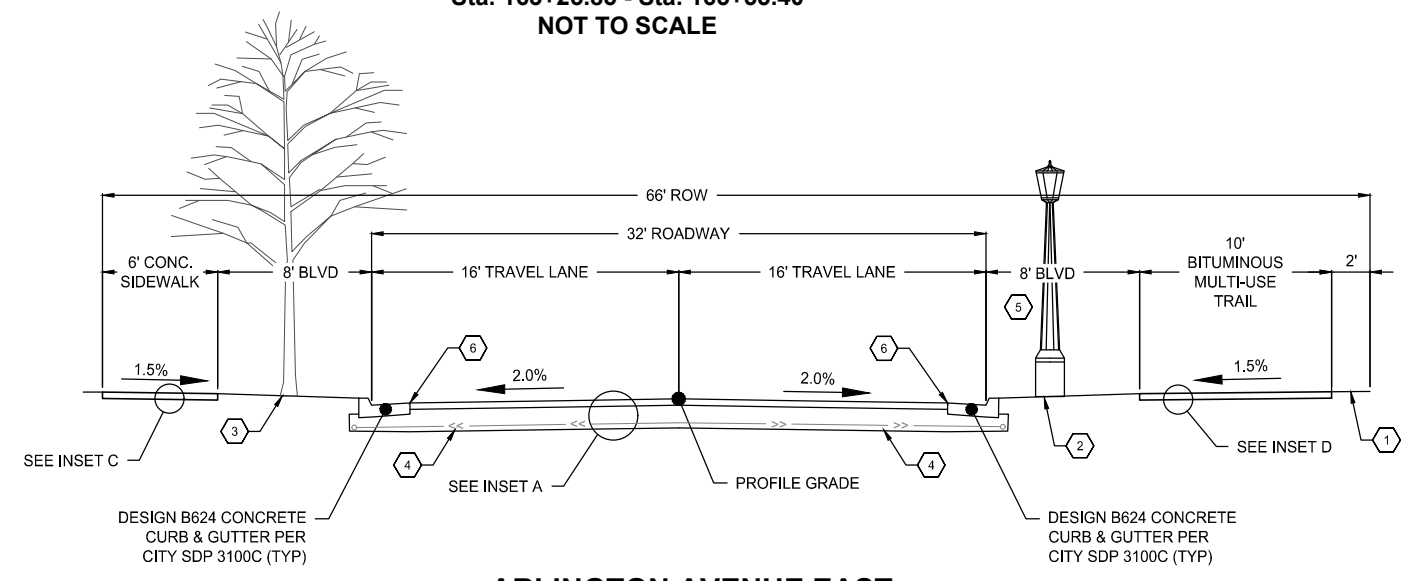
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NOTES:  
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 • ALL BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" TOPSOIL.



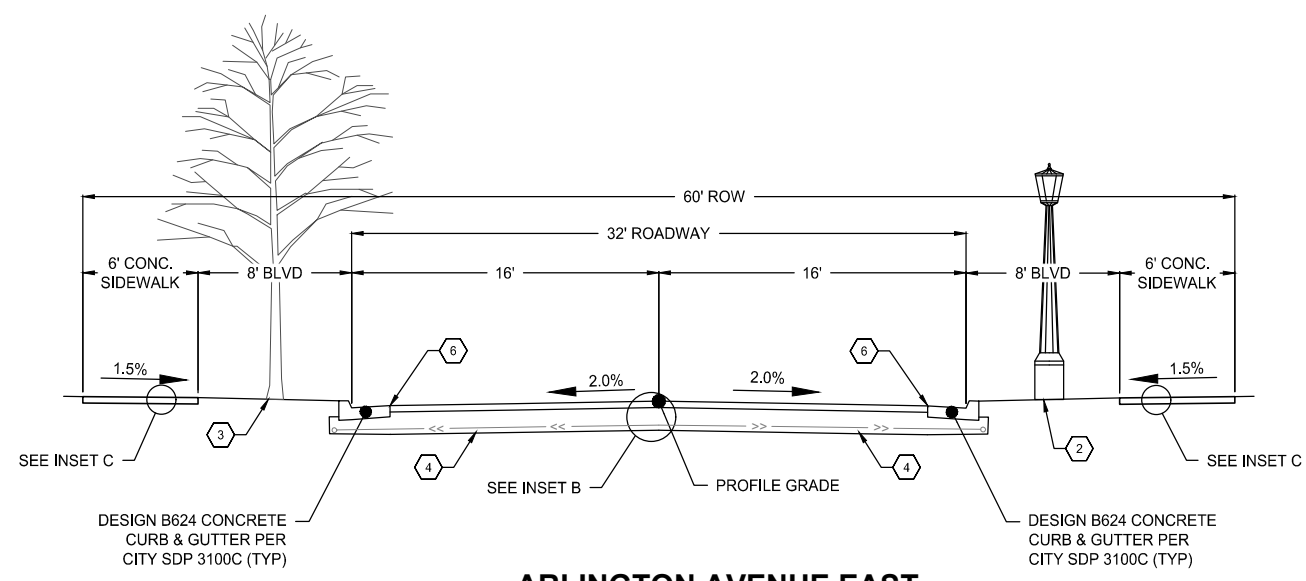
**ARLINGTON AVENUE EAST**

Sta. 163+25.85 - Sta. 165+55.40  
 NOT TO SCALE



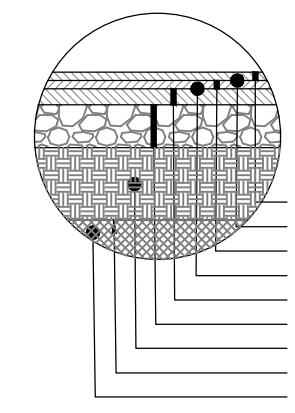
**ARLINGTON AVENUE EAST**

Sta. 155+56.96 - Sta. 163+25.85  
 NOT TO SCALE



**ARLINGTON AVENUE EAST**

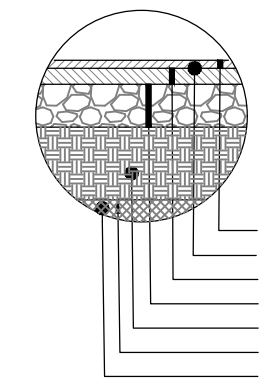
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 NOT TO SCALE



**INSET A**

HEAVY DUTY BITUMINOUS ROAD  
 NOT TO SCALE

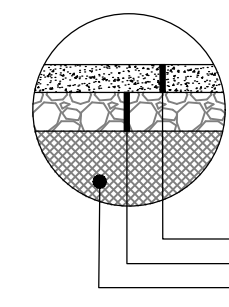
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- MnDOT 2112 SUBGRADE PREPARATION



**INSET B**

NEIGHBORHOOD BITUMINOUS ROAD  
 NOT TO SCALE

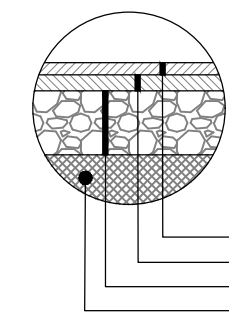
- 1.5" BITUMINOUS WEAR COURSE, SPWEA240C
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- 2.5" BITUMINOUS NON-WEAR COURSE, SPNWB230C
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- 18" SELECT GRANULAR EMBANKMENT
- MnDOT 3733 GEOTEXTILE FABRIC TYPE 5
- MnDOT 2112 SUBGRADE PREPARATION



**INSET C**

CONCRETE SIDEWALK SECTION  
 NOT TO SCALE

- 4" CONCRETE SIDEWALK (MIX 3F52)
- 4" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
- MnDOT 2112 SUBGRADE PREPARATION



**INSET D**

BITUMINOUS DRIVEWAY/TRAIL SECTION  
 NOT TO SCALE

- 1.5" BITUMINOUS WEAR COURSE SPWEA240B
- 1.5" BITUMINOUS WEAR COURSE SPWEA240B
- 6" MnDOT 3138 AGGREGATE BASE (CLASS 5, 5Q OR 6)
- MnDOT 2112 SUBGRADE PREPARATION

REVISIONS	
NO.	DESCRIPTION

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PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

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 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

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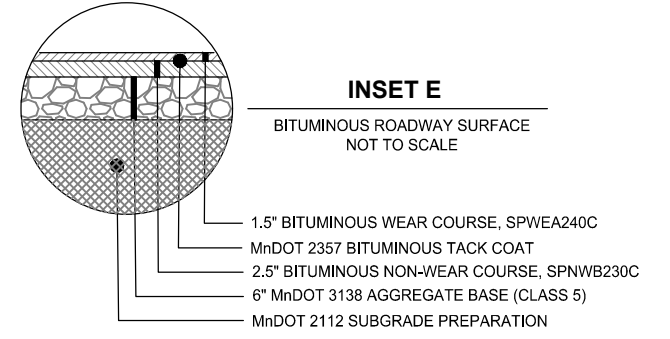
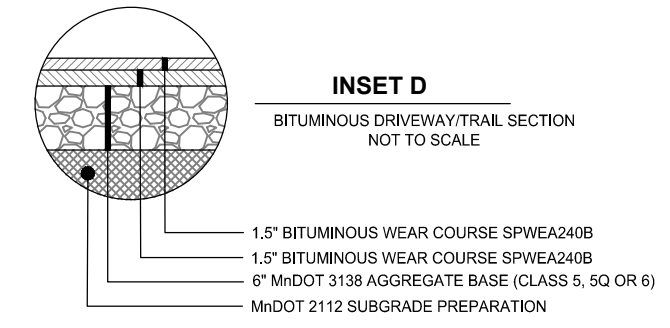
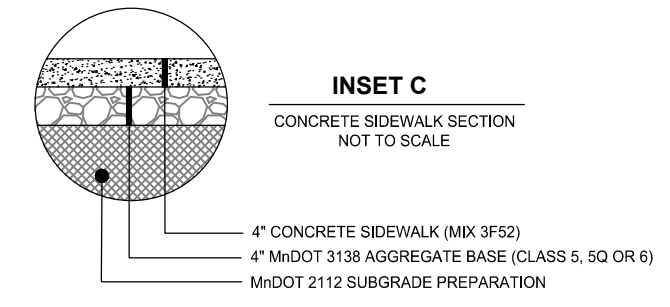
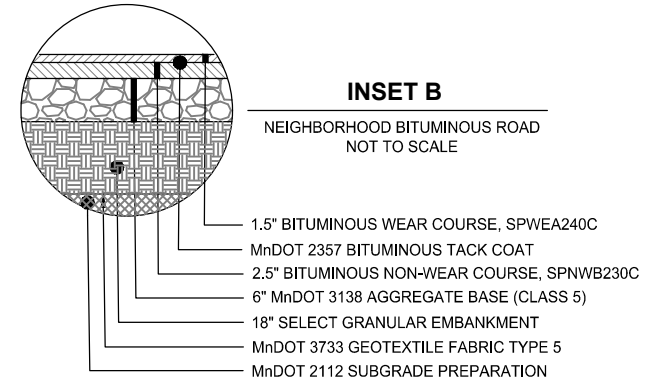
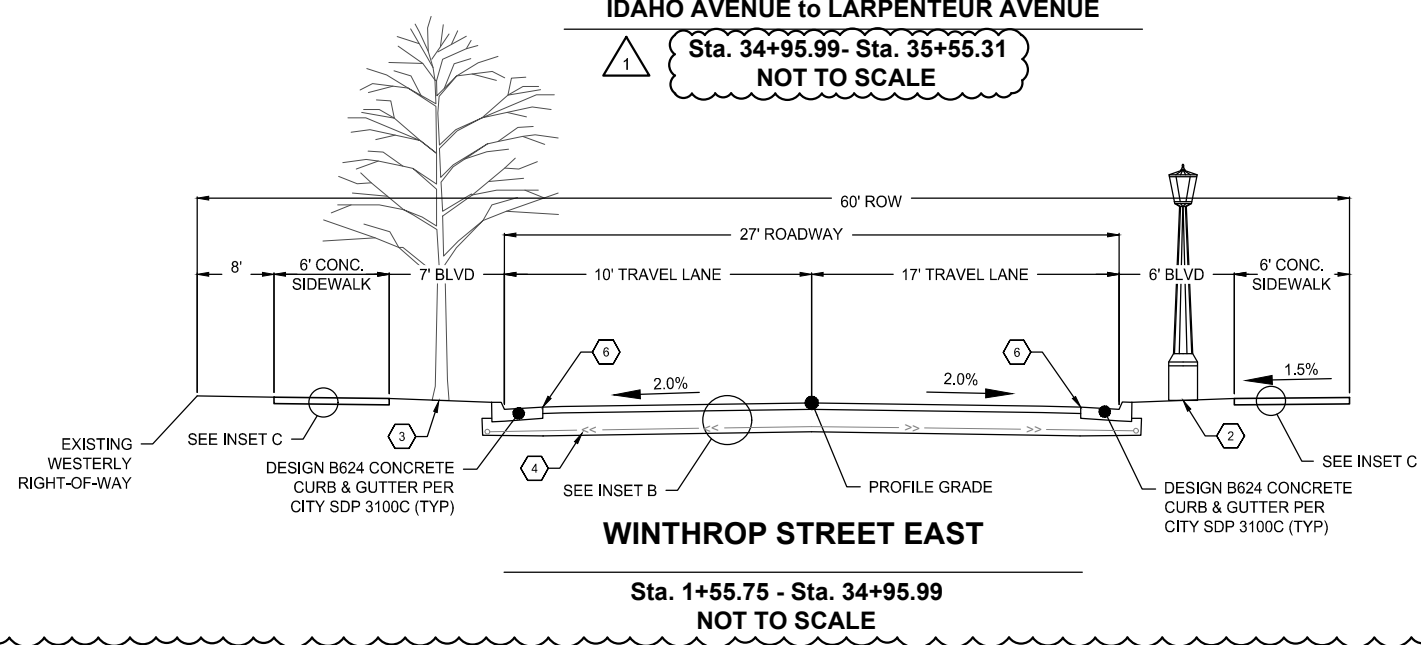
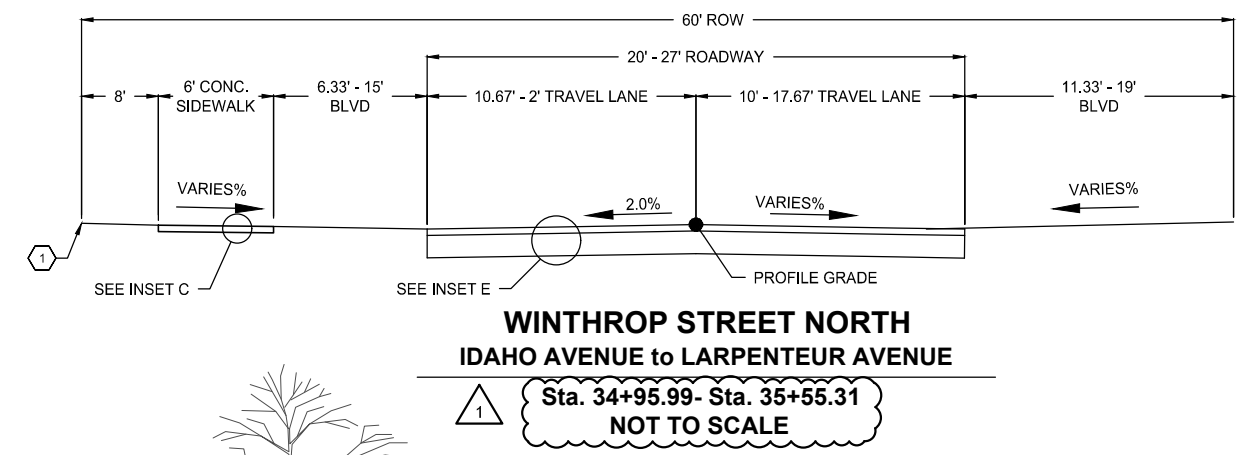
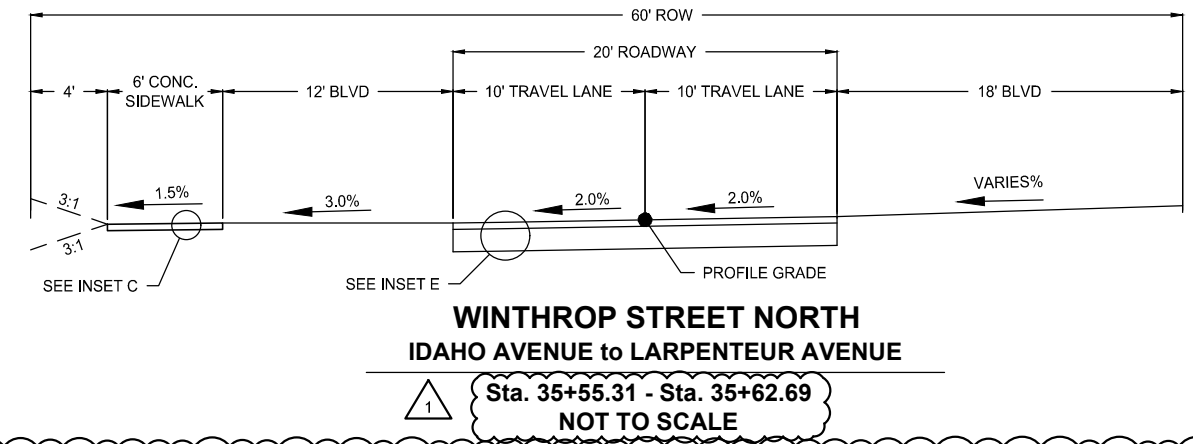
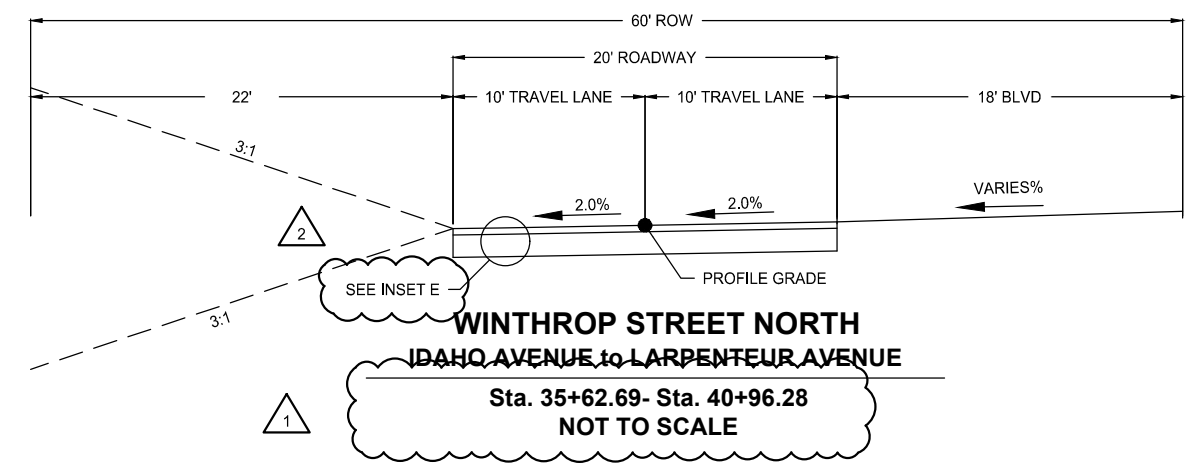
NOTES:  
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SCALE: AS SHOWN  
 PLAN BY: PJM  
 DESIGN BY: PJM  
 CHECK BY: PTJ

REVISIONS				
NO.	DATE	DESCRIPTION	ADDENDUM NO. 1	ADDENDUM NO. 2
1	01/30/2024			
2	02/09/2024			
3	03/29/2024			

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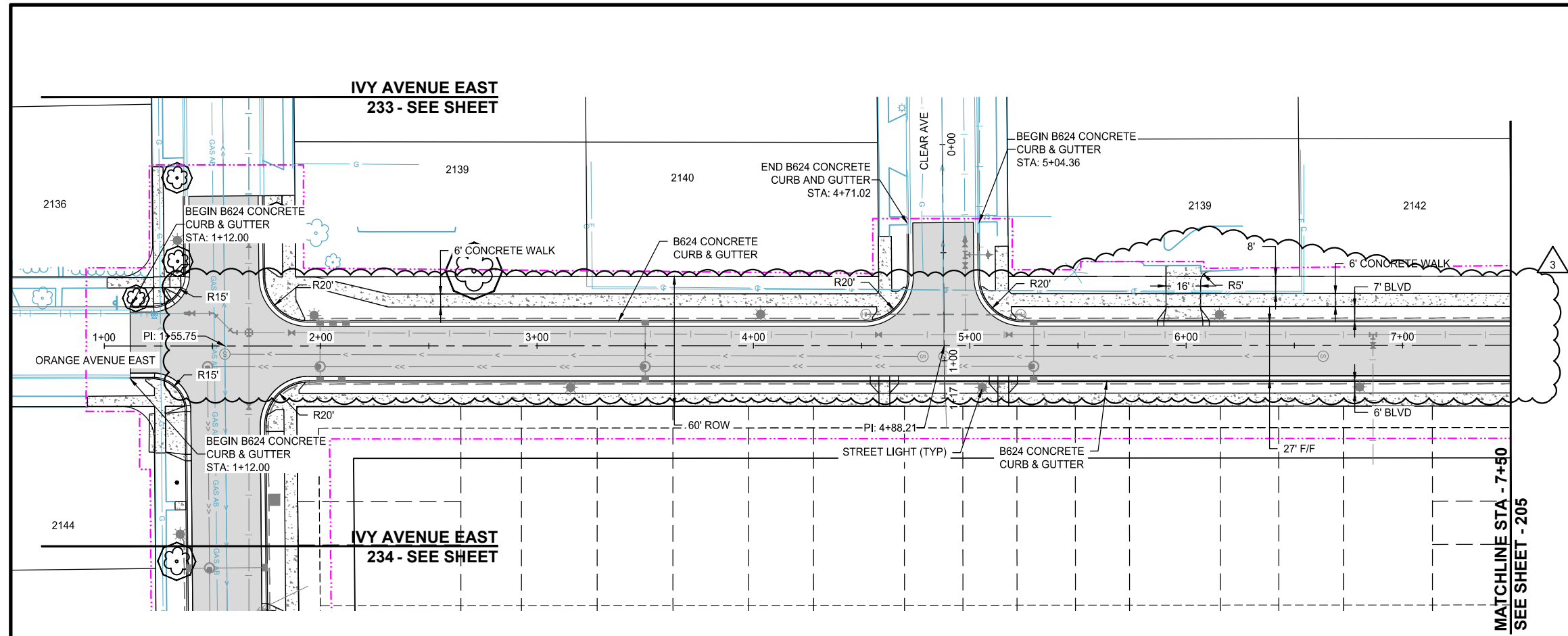
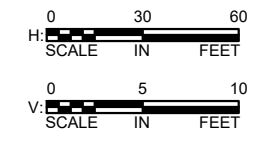
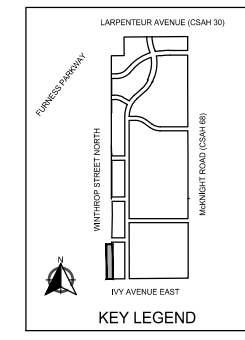
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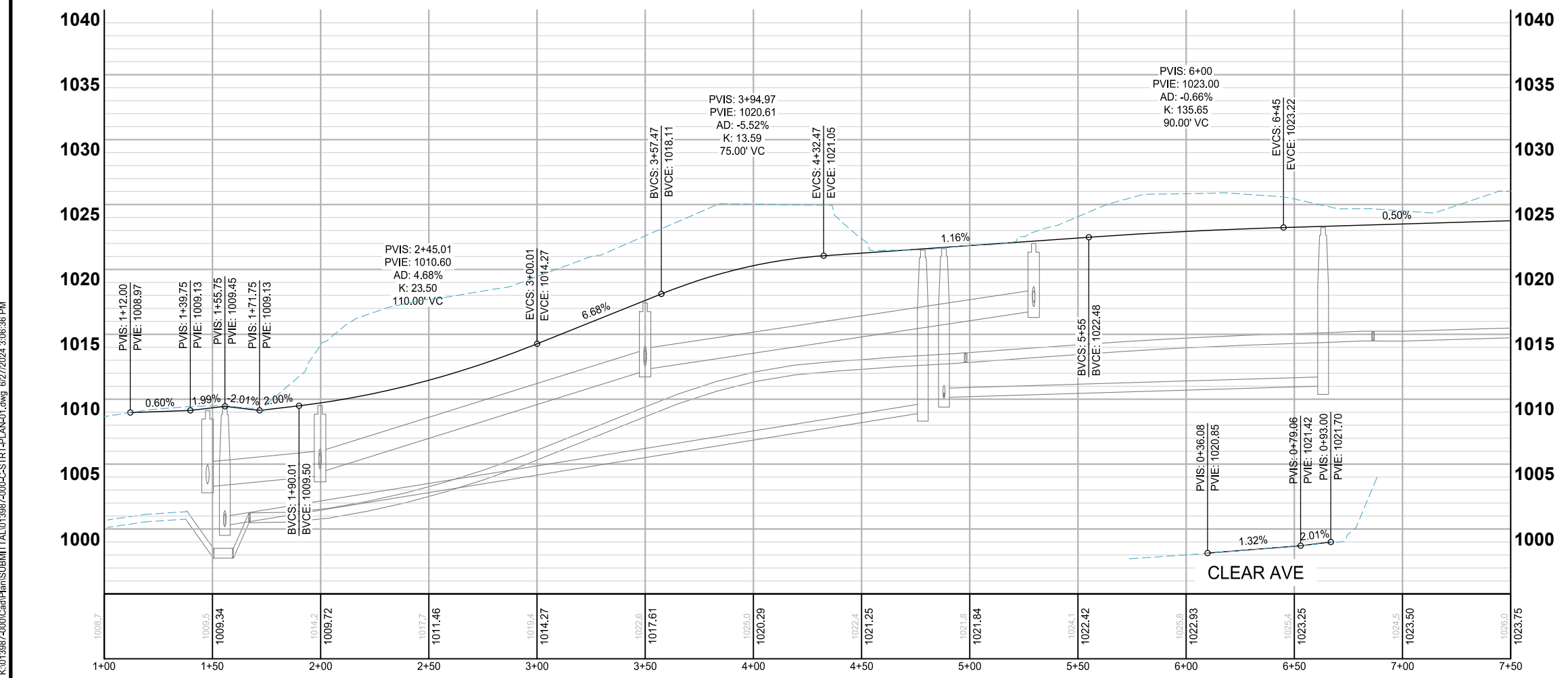
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WINTHROP STREET NORTH



NOTES:  
 1. VERTICAL CURVES ARE DESIGNED FOR 25 MPH.  
 2. SEE SHEETS 261 TO 290 FOR PED. RAMP DETAILS.  
 3. SEE SITE PLANS FOR REINFORCED TURF AREAS.  
 4. DRIVEWAY LOCATIONS ARE PRELIMINARILY SHOWN. CONTRACTOR SHALL COORDINATE LOCATION OF DRIVEWAYS WITH THE ENGINEER PRIOR TO PLACEMENT OF CURB AND GUTTER.

**LEGEND**

- PROPOSED CURB AND GUTTER
- PROPOSED BITUMINOUS (EDGE)
- PROPOSED CONCRETE (EDGE)
- PROPOSED GRAVEL (EDGE)
- CONSTRUCTION LIMITS
- EXISTING STORM SEWER PIPE
- EXISTING STORM STRUCTURE
- PROPOSED STORM SEWER PIPE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED BITUMINOUS ROAD
- PROPOSED MILL AND OVERLAY
- PROPOSED BITUMINOUS TRAIL
- PROPOSED CONCRETE WALK/DRIVEWAY
- PROPOSED TRUNCATED DOMES
- PROPOSED BOARDWALK

STREET CONSTRUCTION

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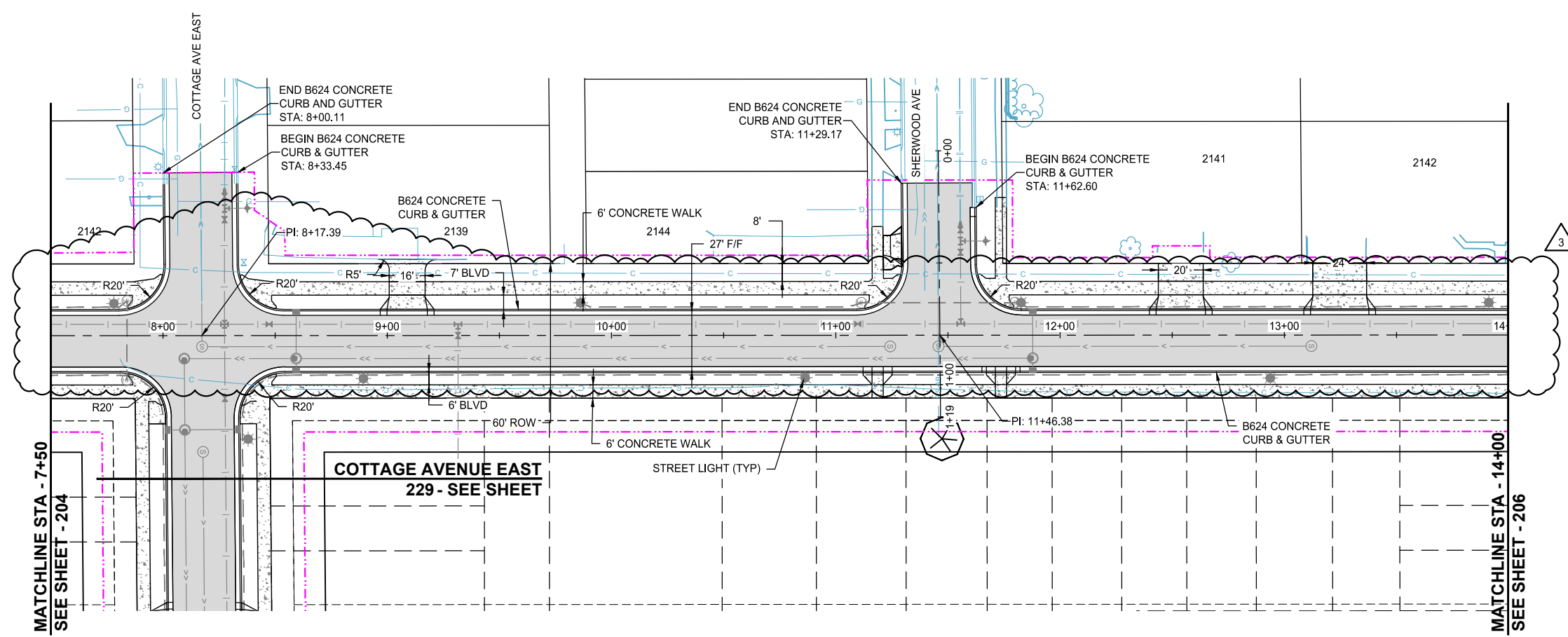
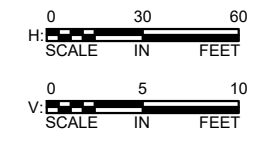
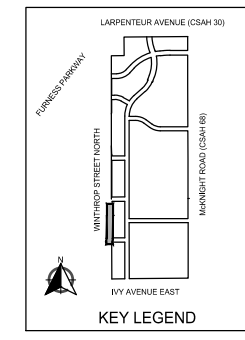
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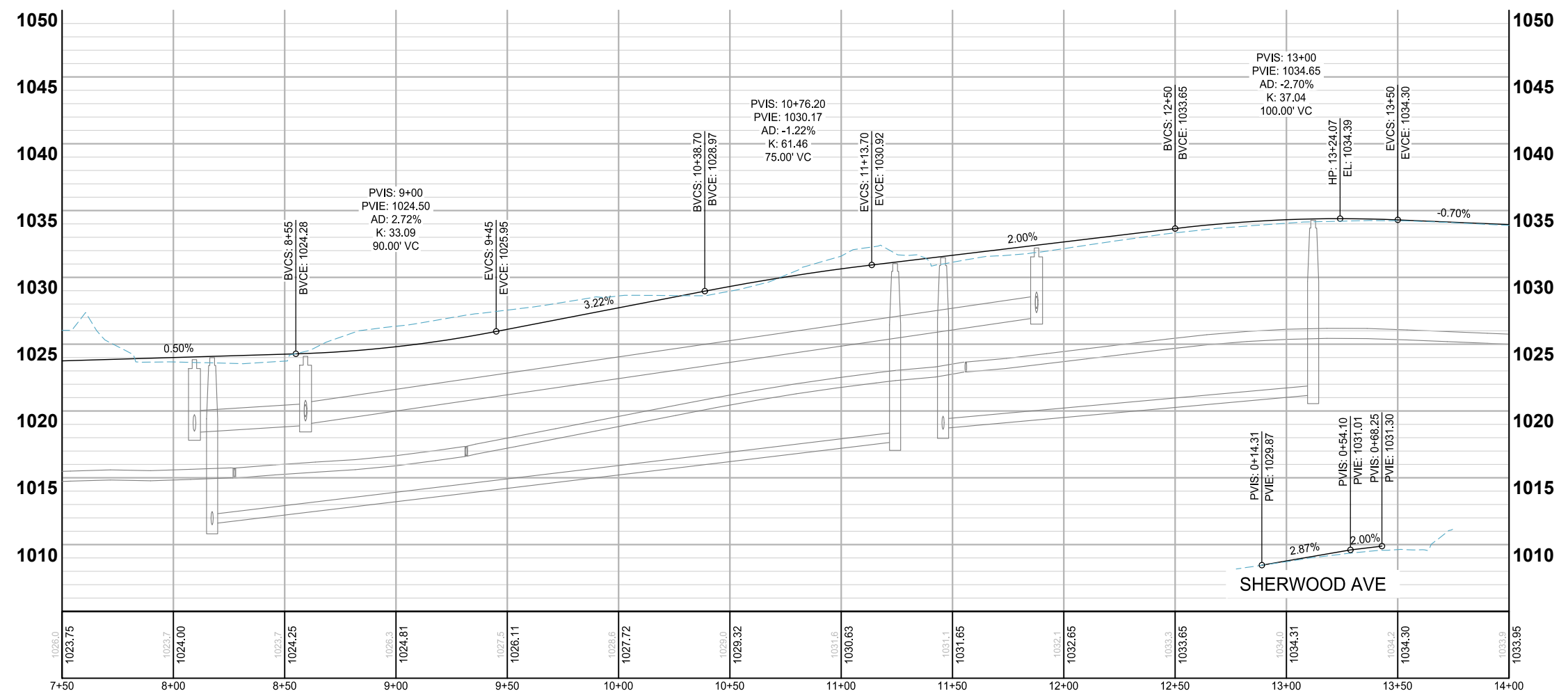
REVISIONS		NO.	DATE	DESCRIPTION
PLAN REVISIONS		3	03/29/2024	

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359



WINTHROP STREET NORTH



NOTES:  
 1. VERTICAL CURVES ARE DESIGNED FOR 25 MPH.  
 2. SEE SHEETS 261 TO 290 FOR PED. RAMP DETAILS.  
 3. SEE SITE PLANS FOR REINFORCED TURF AREAS.  
 4. DRIVEWAY LOCATIONS ARE PRELIMINARILY SHOWN. CONTRACTOR SHALL COORDINATE LOCATION OF DRIVEWAYS WITH THE ENGINEER PRIOR TO PLACEMENT OF CURB AND GUTTER.

**LEGEND**

	PROPOSED CURB AND GUTTER
	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	CONSTRUCTION LIMITS
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED BITUMINOUS ROAD
	PROPOSED MILL AND OVERLAY
	PROPOSED BITUMINOUS TRAIL
	PROPOSED CONCRETE WALK/DRIVEWAY
	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

STREET CONSTRUCTION

BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

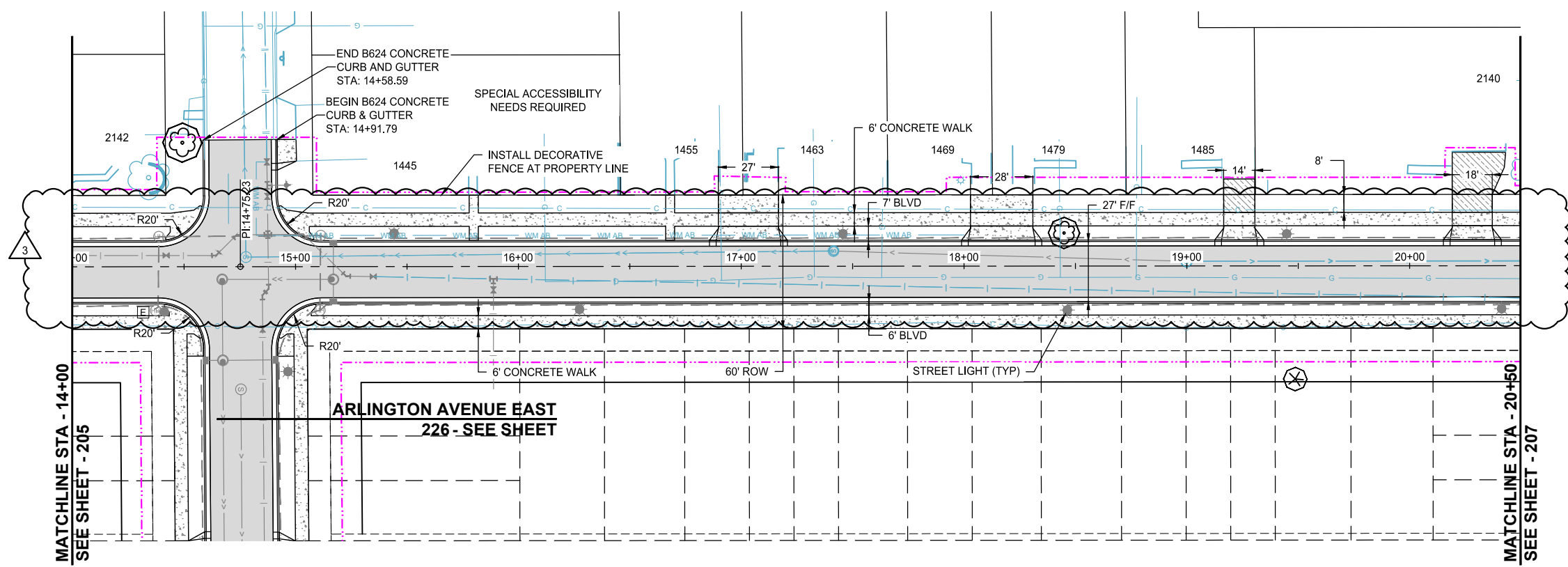
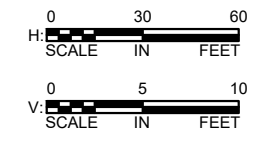
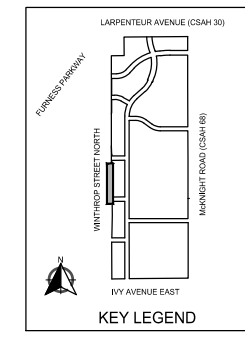
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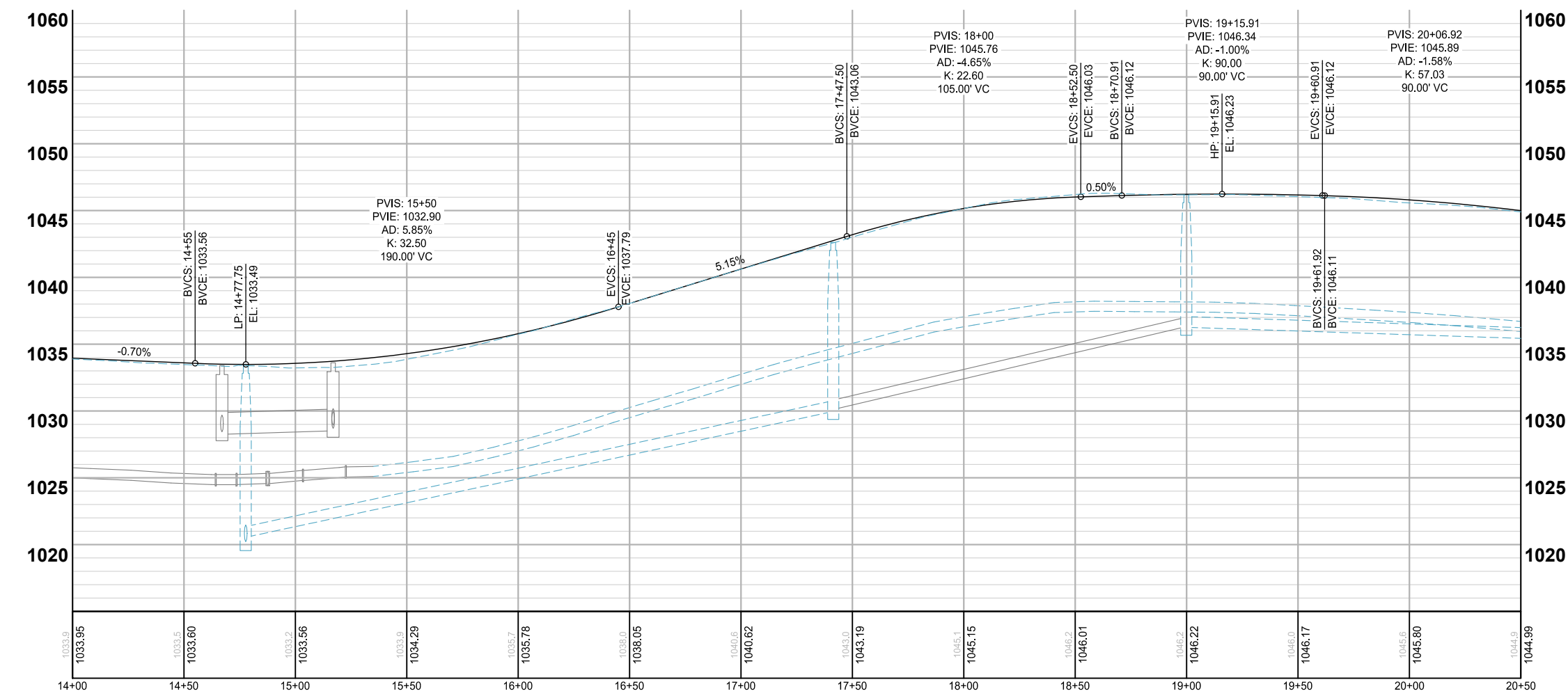
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NO.	DATE	DESCRIPTION	PLAN REVISIONS
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PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359



WINTHROP STREET NORTH



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	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	CONSTRUCTION LIMITS
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED BITUMINOUS ROAD
	PROPOSED MILL AND OVERLAY
	PROPOSED BITUMINOUS TRAIL
	PROPOSED CONCRETE WALK/DRIVEWAY
	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

STREET CONSTRUCTION

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 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

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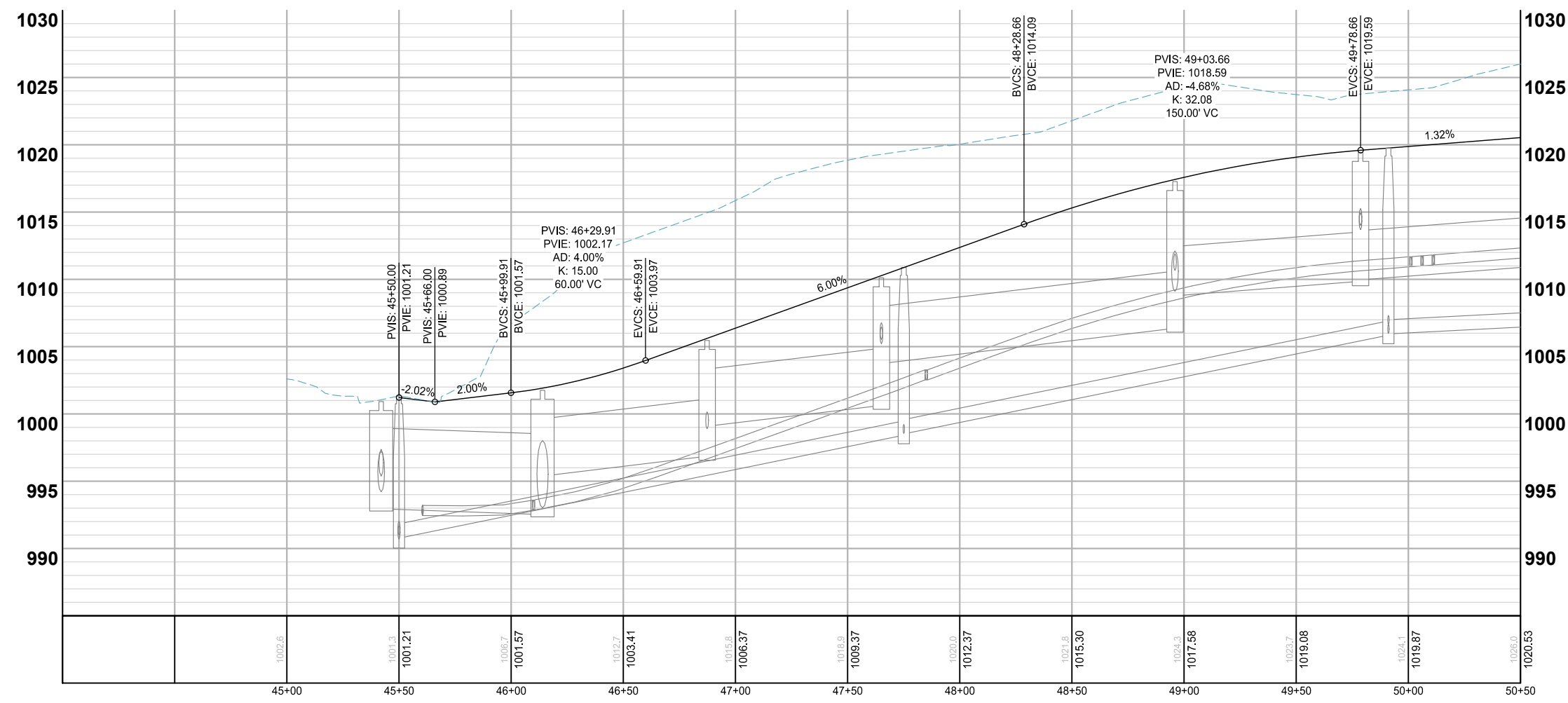
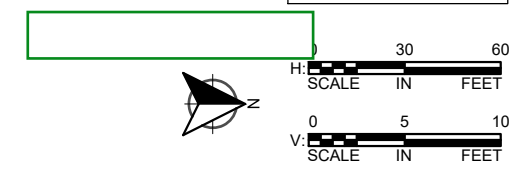
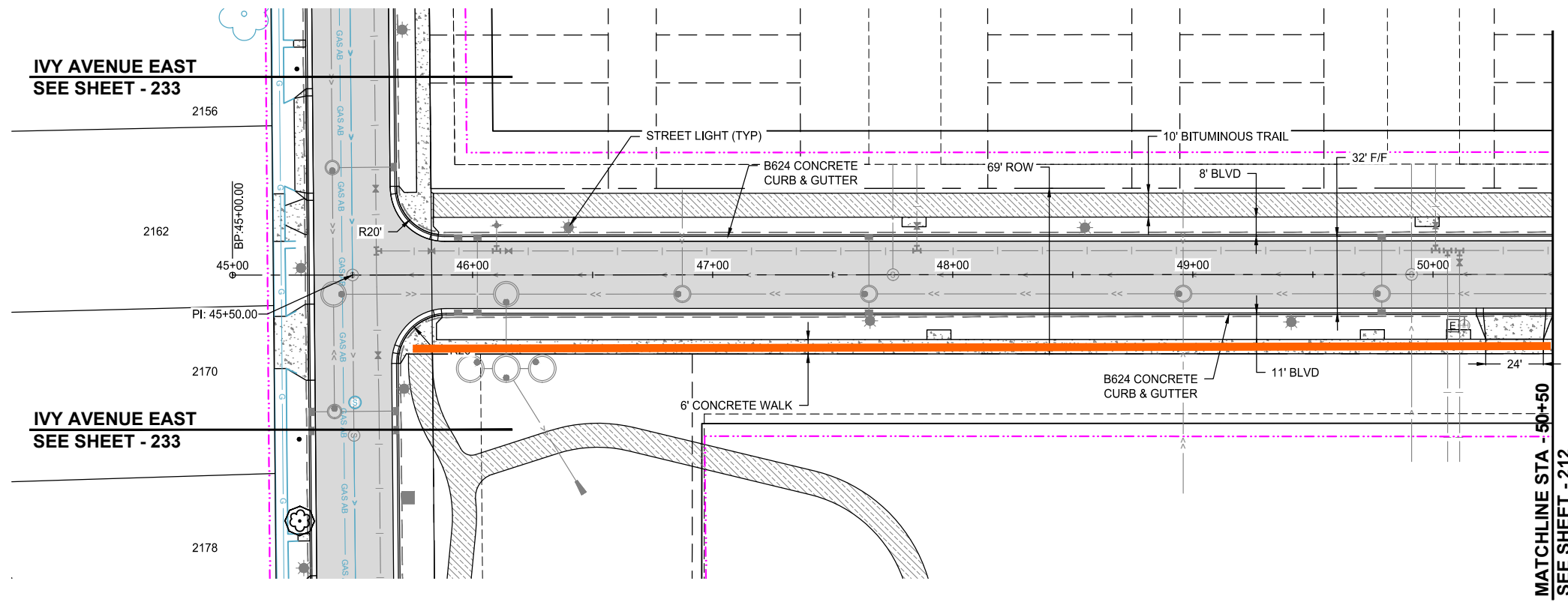
PAUL HORNBY, P.E.  
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STREET CONSTRUCTION

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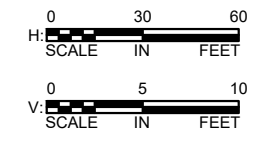
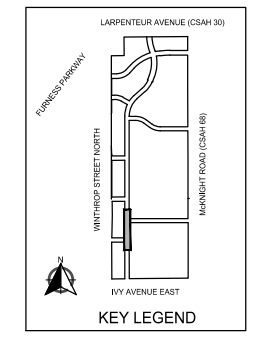
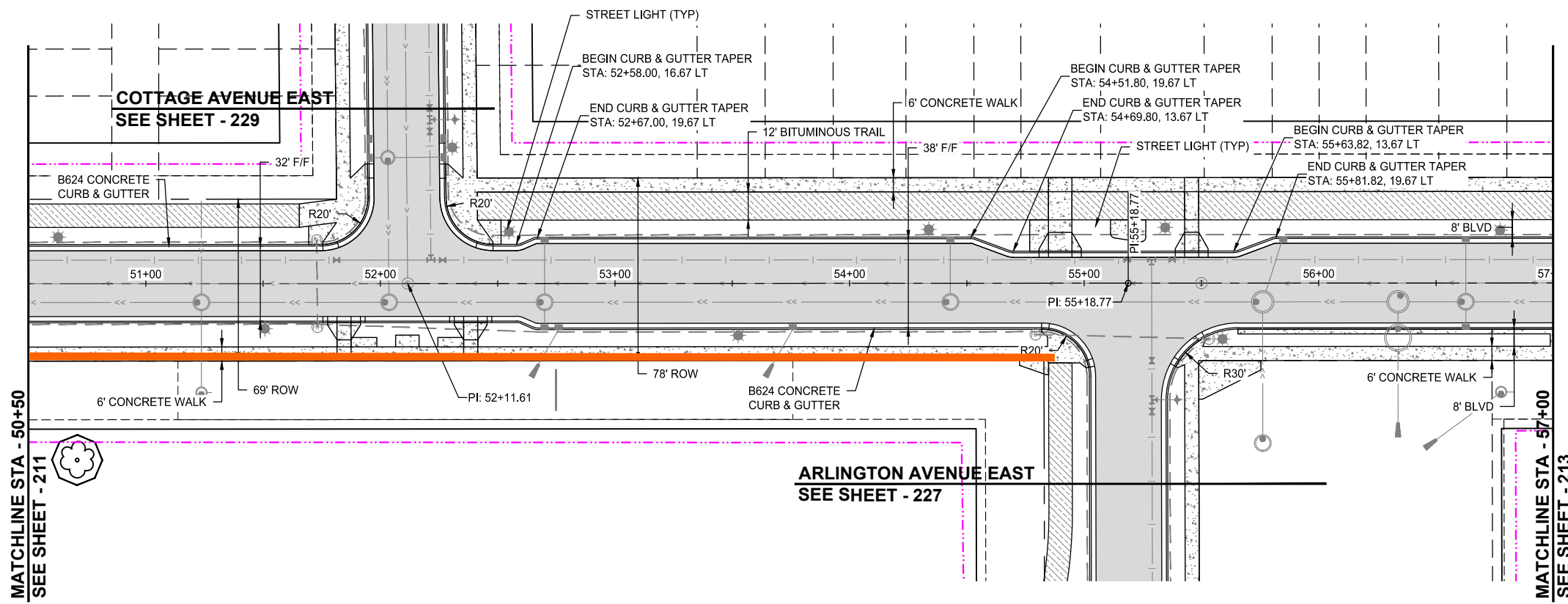
LEGEND

	PROPOSED CURB AND GUTTER
	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	CONSTRUCTION LIMITS
	EXISTING STORM SEWER PIPE
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	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

REVISIONS			
NO.	DATE	DESCRIPTION	PLAN REVISIONS
3	03/29/2024		

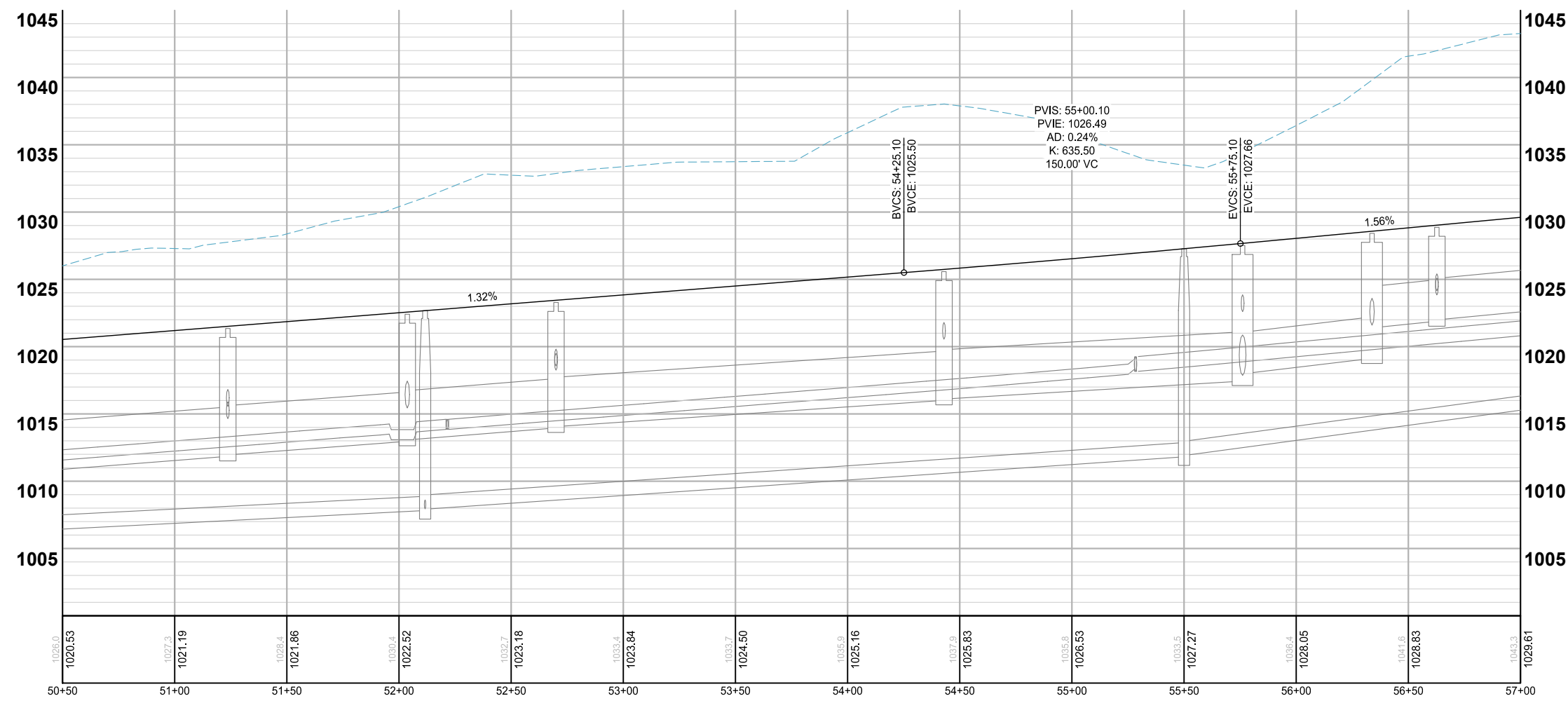
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**LEGEND**

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	CONSTRUCTION LIMITS
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**STREET CONSTRUCTION**

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 SAINT PAUL, MINNESOTA

**Saint Paul Port Authority**  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

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 DESIGN BY: PJM  
 PLAN BY: DEH  
 CHECK BY: PTH

REVISIONS		NO.	DATE	DESCRIPTION
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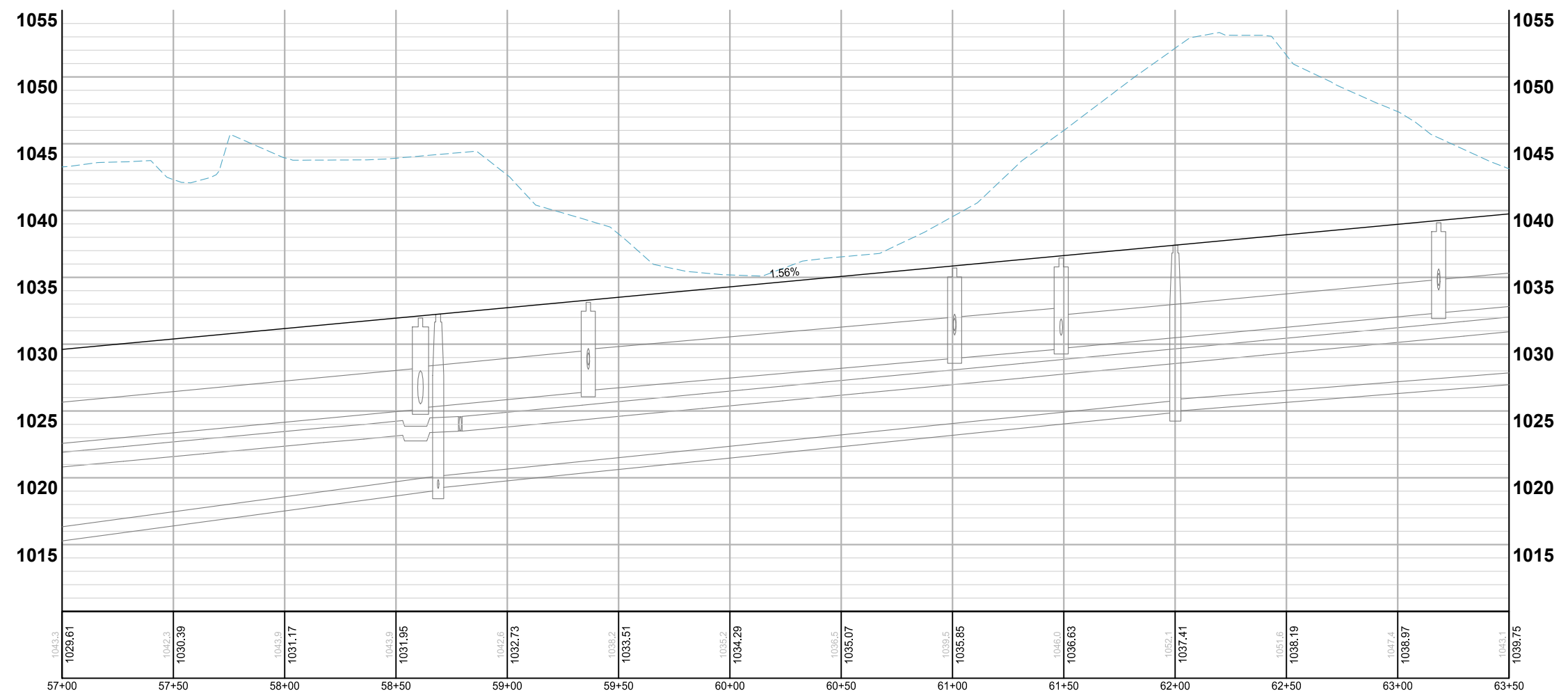
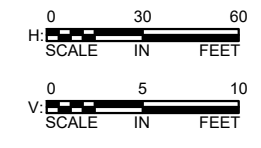
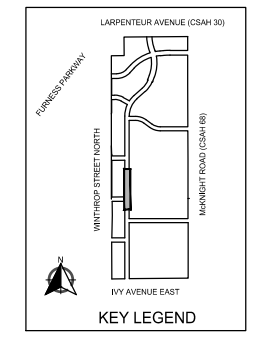
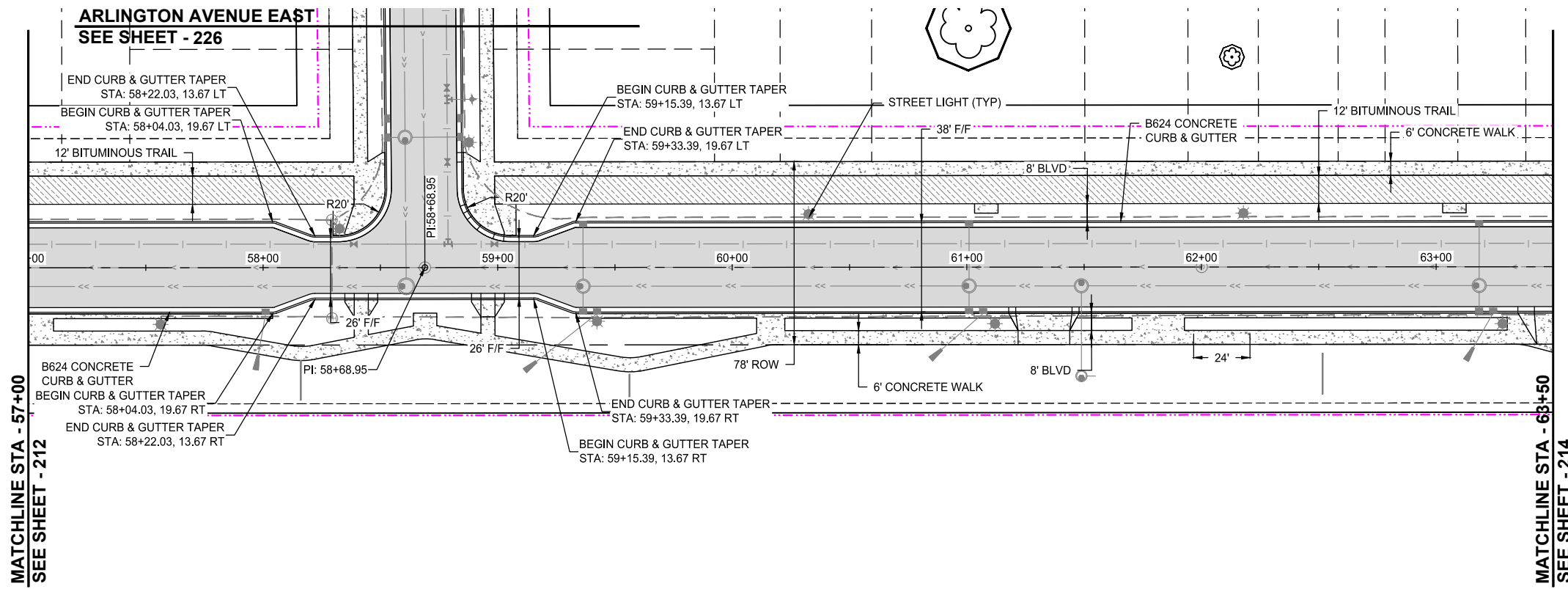
PAUL HORNBLY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

STREET CONSTRUCTION

BID PACKAGE NO. 2  
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Saint Paul  
 Port Authority  
 400 Wabasha Street North  
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 St Paul, Minnesota 55102  
 Phone 612-224-5686

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 013987-000



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**LEGEND**

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	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	CONSTRUCTION LIMITS
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED BITUMINOUS ROAD
	PROPOSED MILL AND OVERLAY
	PROPOSED BITUMINOUS TRAIL
	PROPOSED CONCRETE WALK/DRIVEWAY
	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

REVISIONS		NO.	DATE	DESCRIPTION
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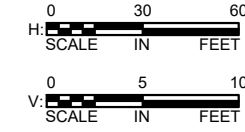
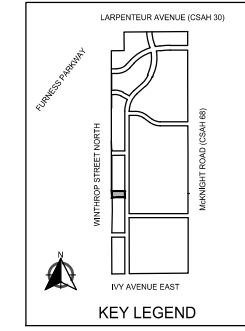
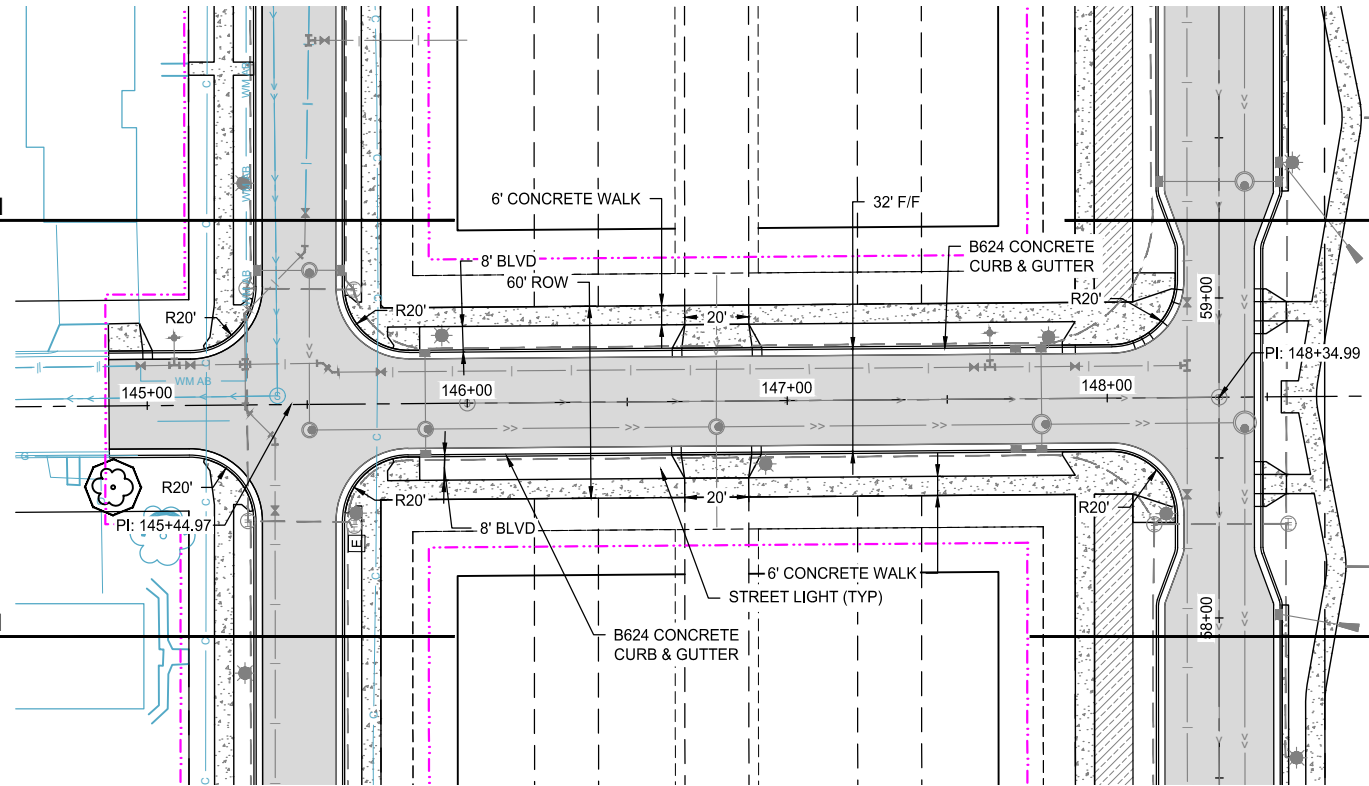
PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

WINTHROP STREET NORTH  
 SEE SHEET - 206

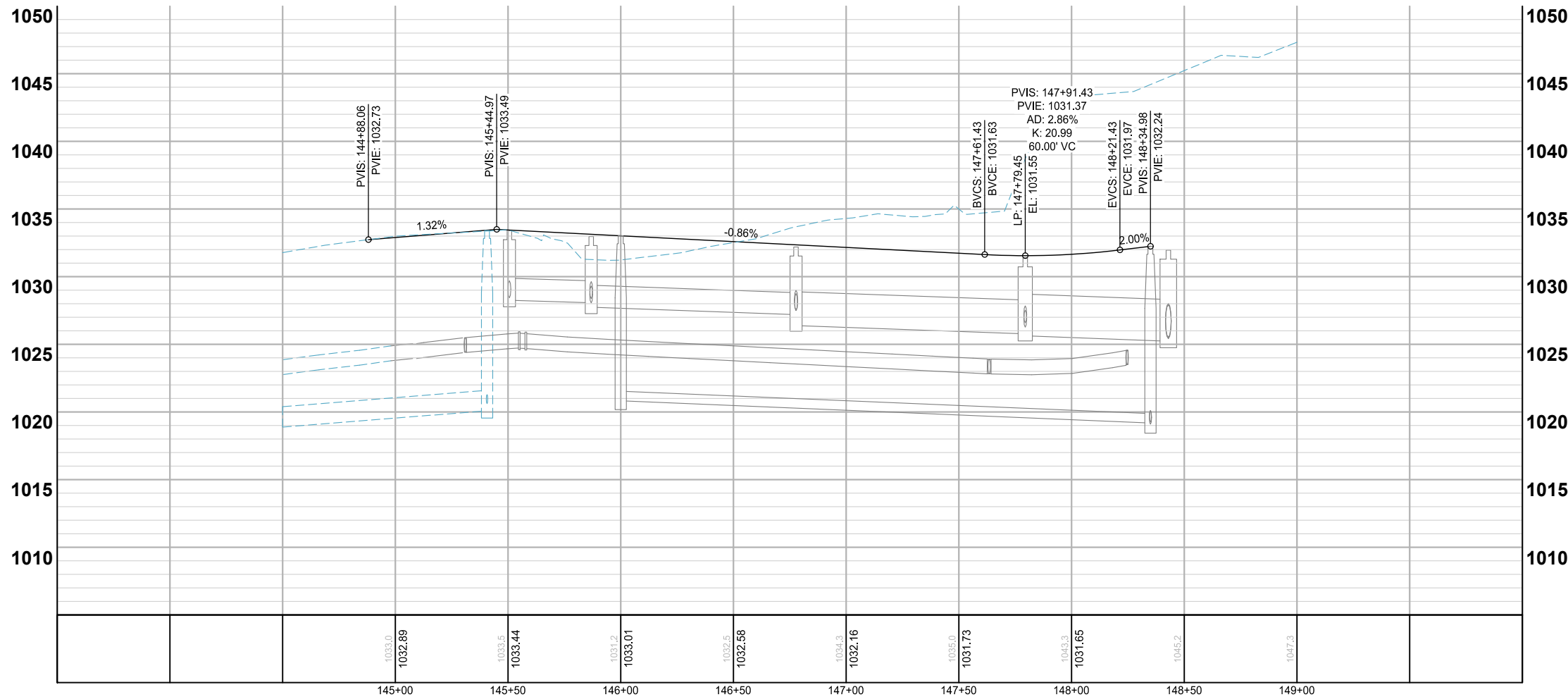
HOWARD STREET NORTH  
 213 - SEE SHEET

WINTHROP STREET NORTH  
 SEE SHEET - 205

HOWARD STREET NORTH  
 212 - SEE SHEET



ARLINGTON AVENUE EAST



NOTES:  
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	EXISTING STORM STRUCTURE
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STREET CONSTRUCTION

BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

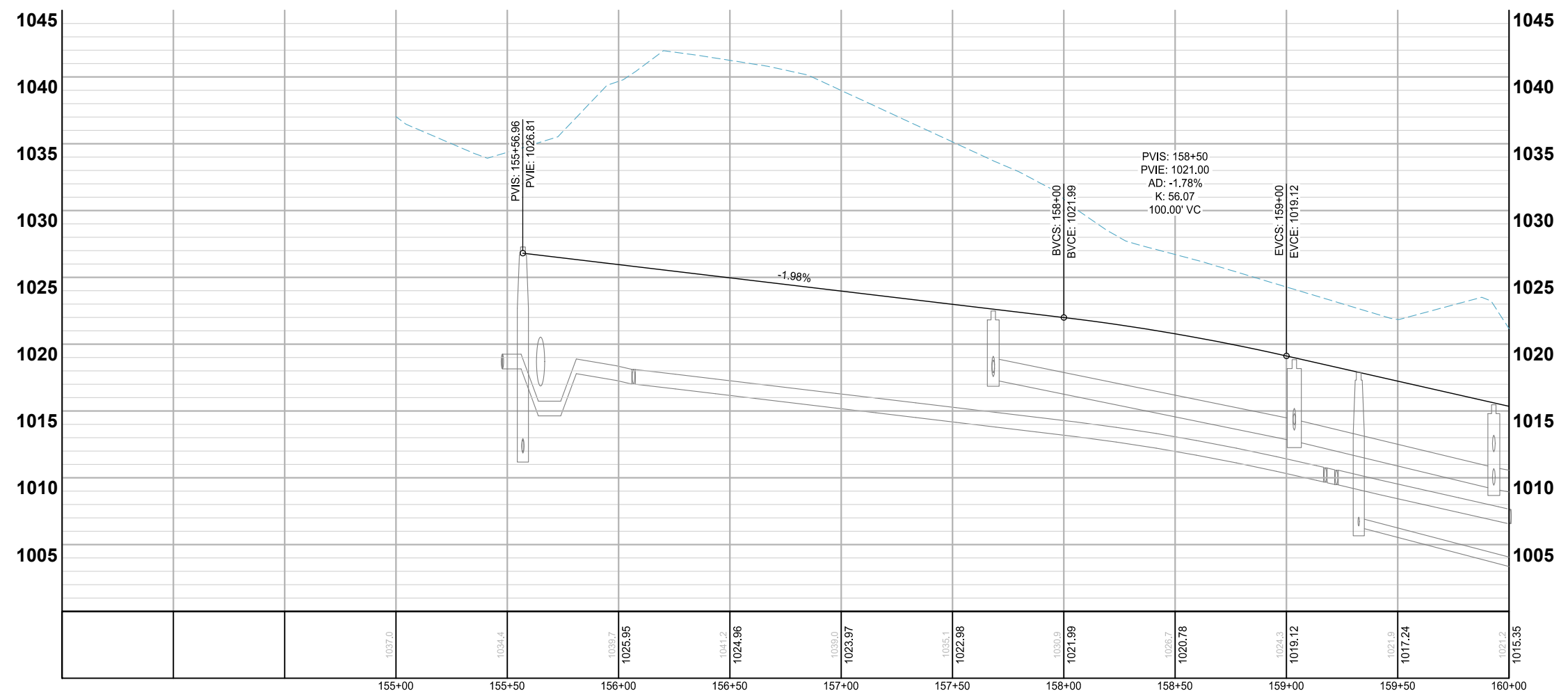
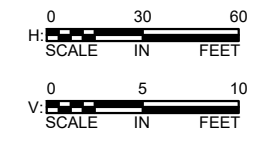
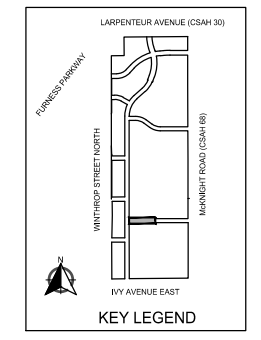
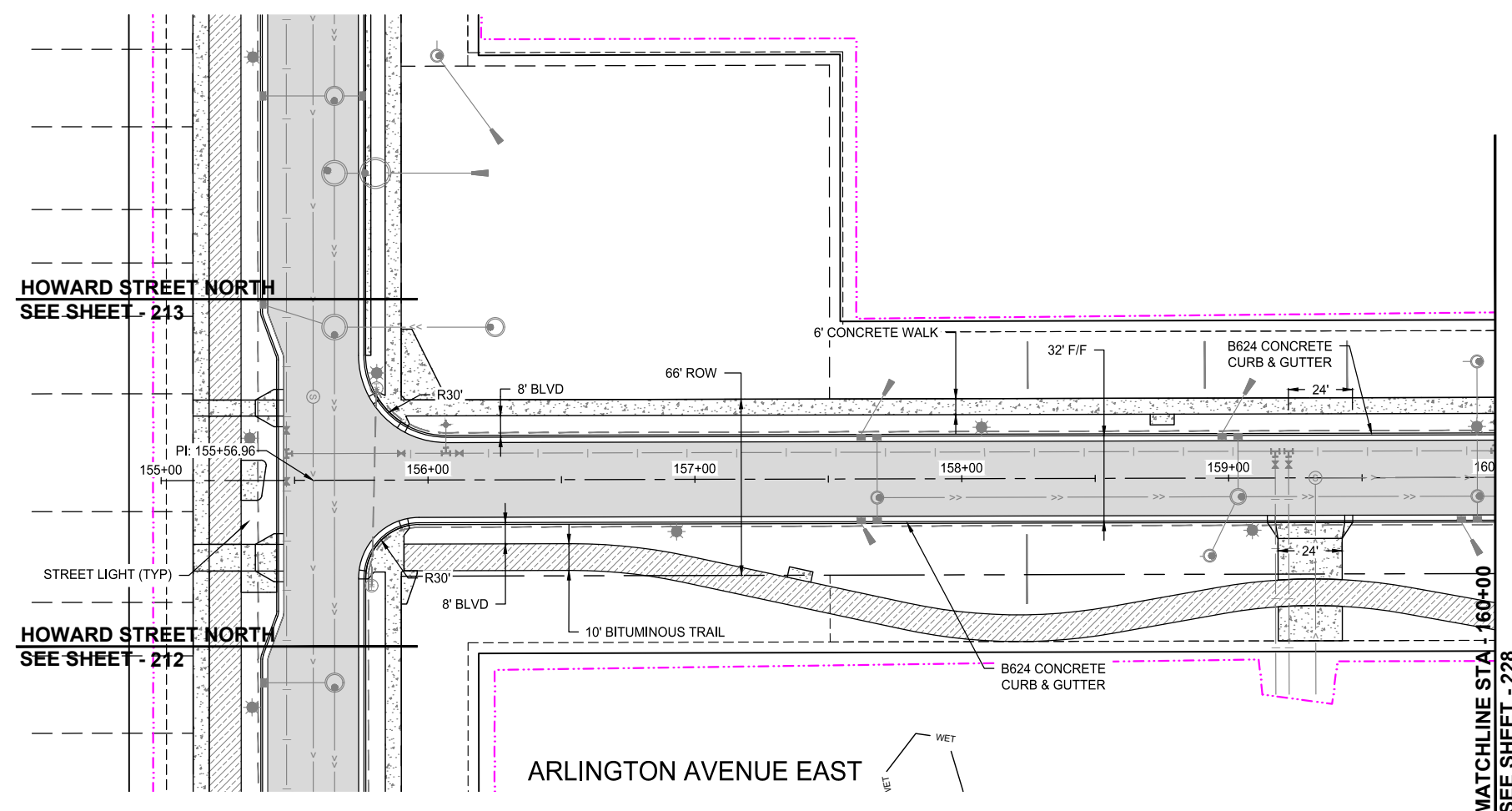
Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
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REVISIONS		NO.	DATE	DESCRIPTION
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PAUL HORNBLY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359



- NOTES:
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LEGEND

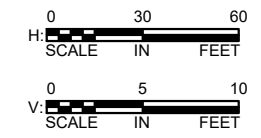
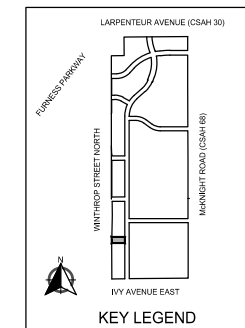
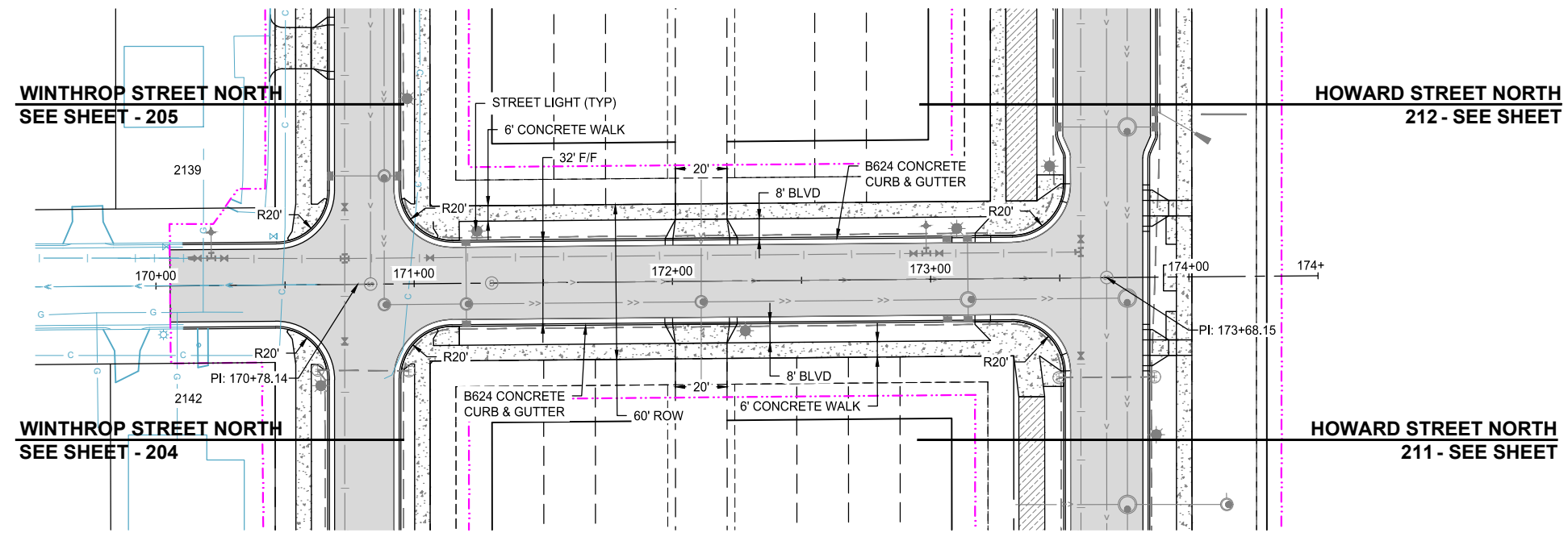
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STREET CONSTRUCTION

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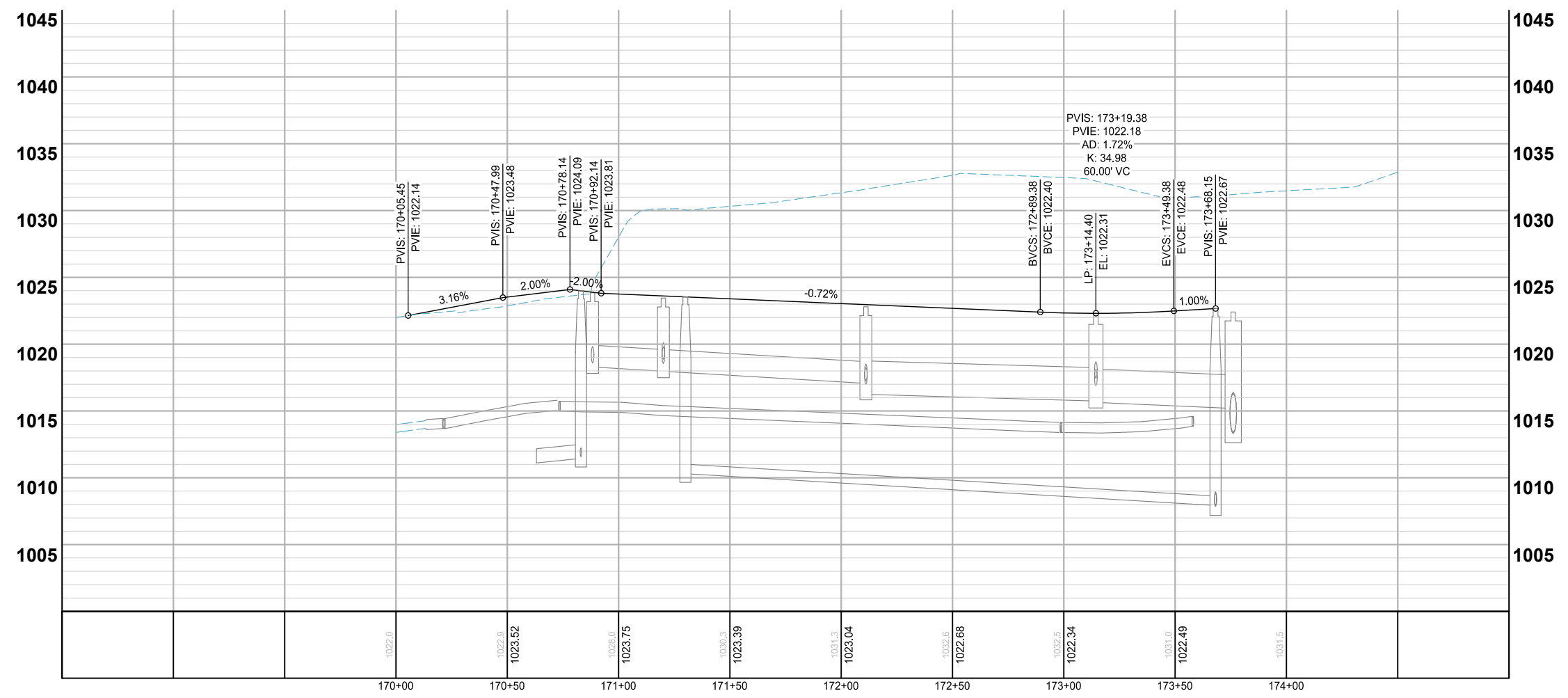


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PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

COTTAGE AVENUE EAST



NOTES:

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	PROPOSED TRUNCATED DOMES
	PROPOSED BOARDWALK

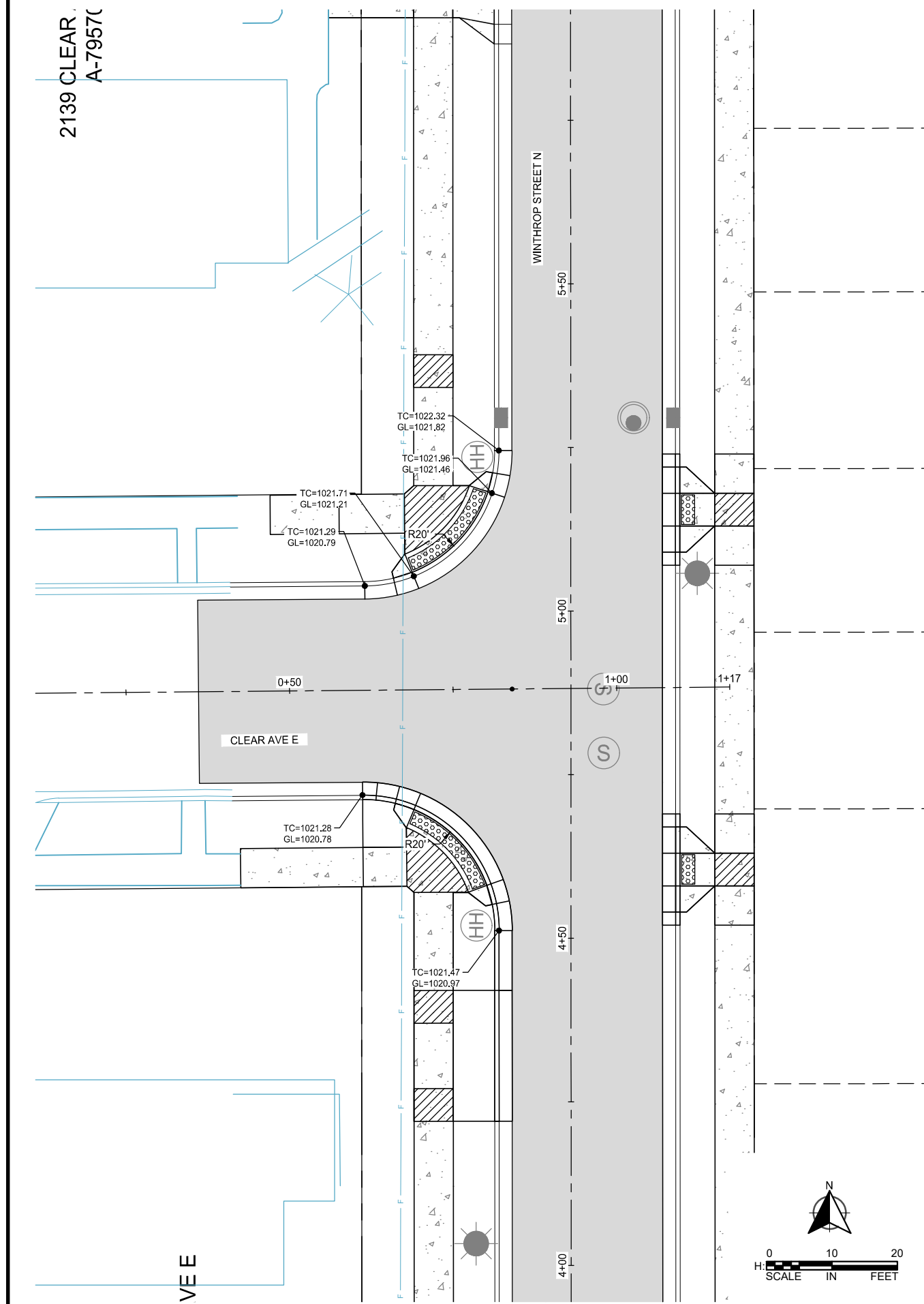
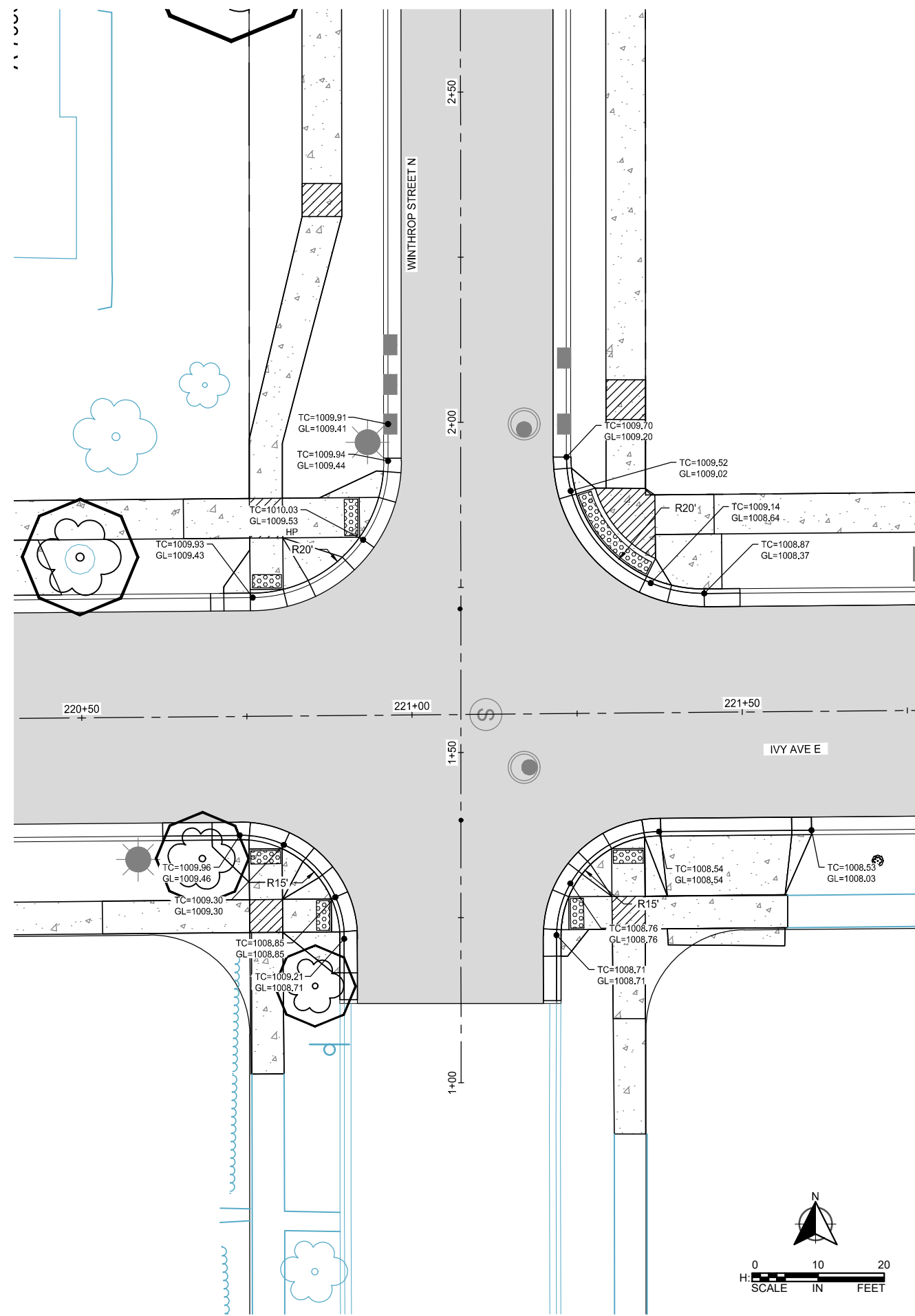
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4



SCALE: AS SHOWN  
 DESIGN BY: PJM  
 PLAN BY: PJM  
 CHECK BY: PTH

NO.	DATE	DESCRIPTION
3	03/29/2024	PLAN REVISIONS
4	06/19/2024	REVISION 4

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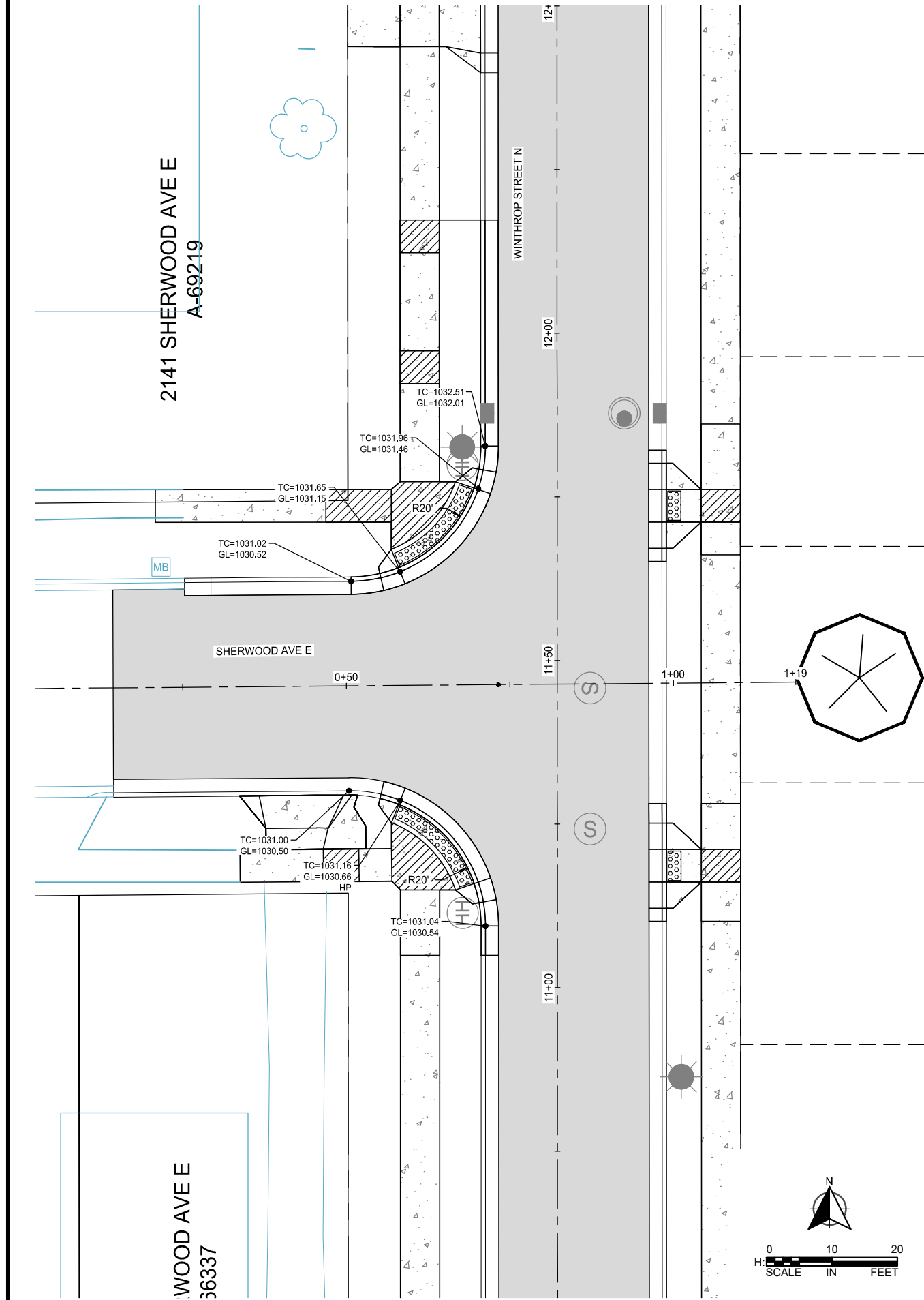
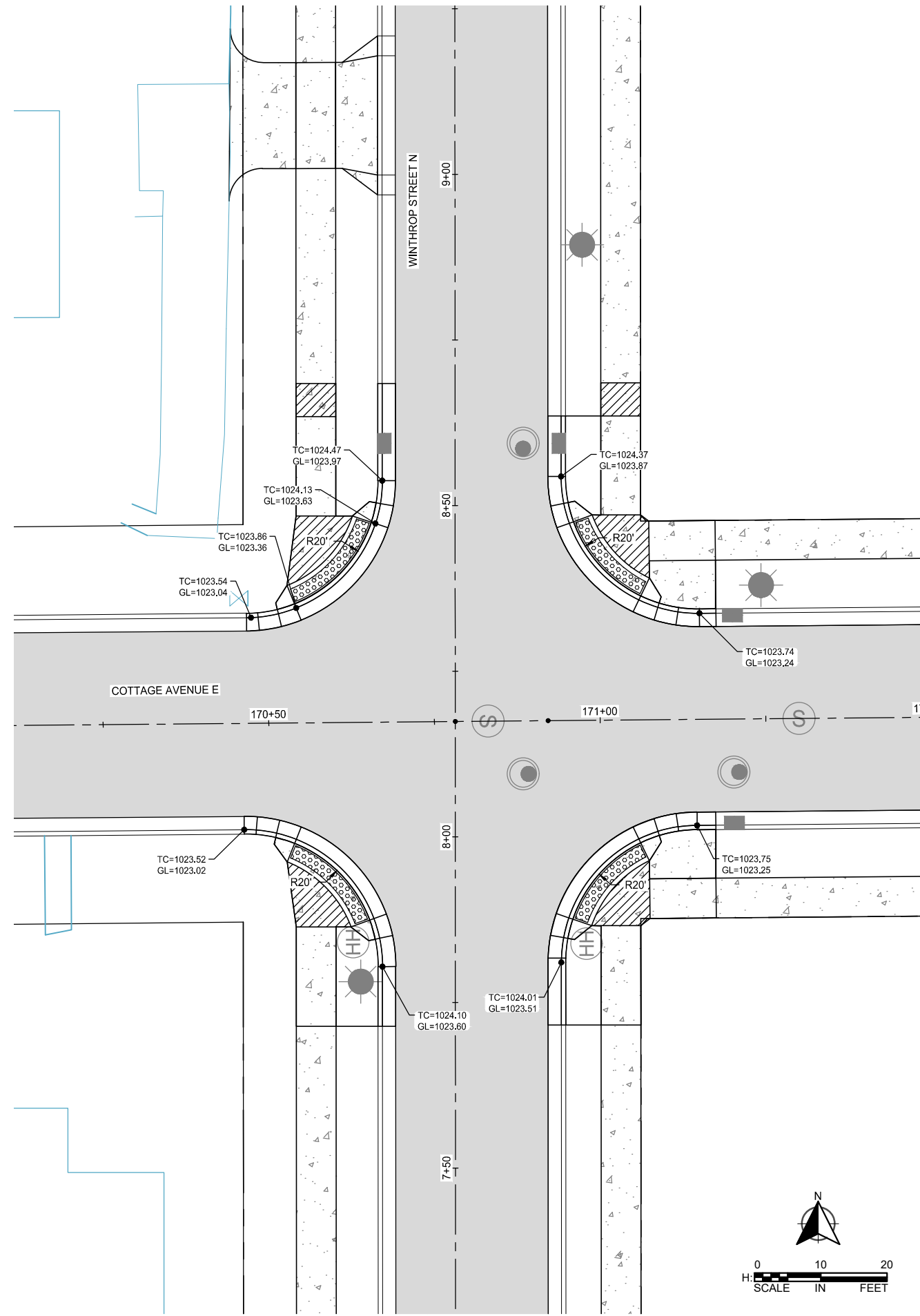
**INTERSECTION DETAILS**

**BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA**

**Saint Paul  
 Port Authority**  
 400 Wabasha Street North  
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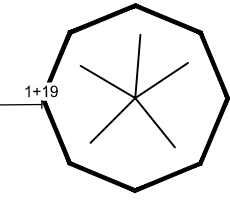
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REVISIONS	
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### INTERSECTION DETAILS



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 SAINT PAUL, MINNESOTA

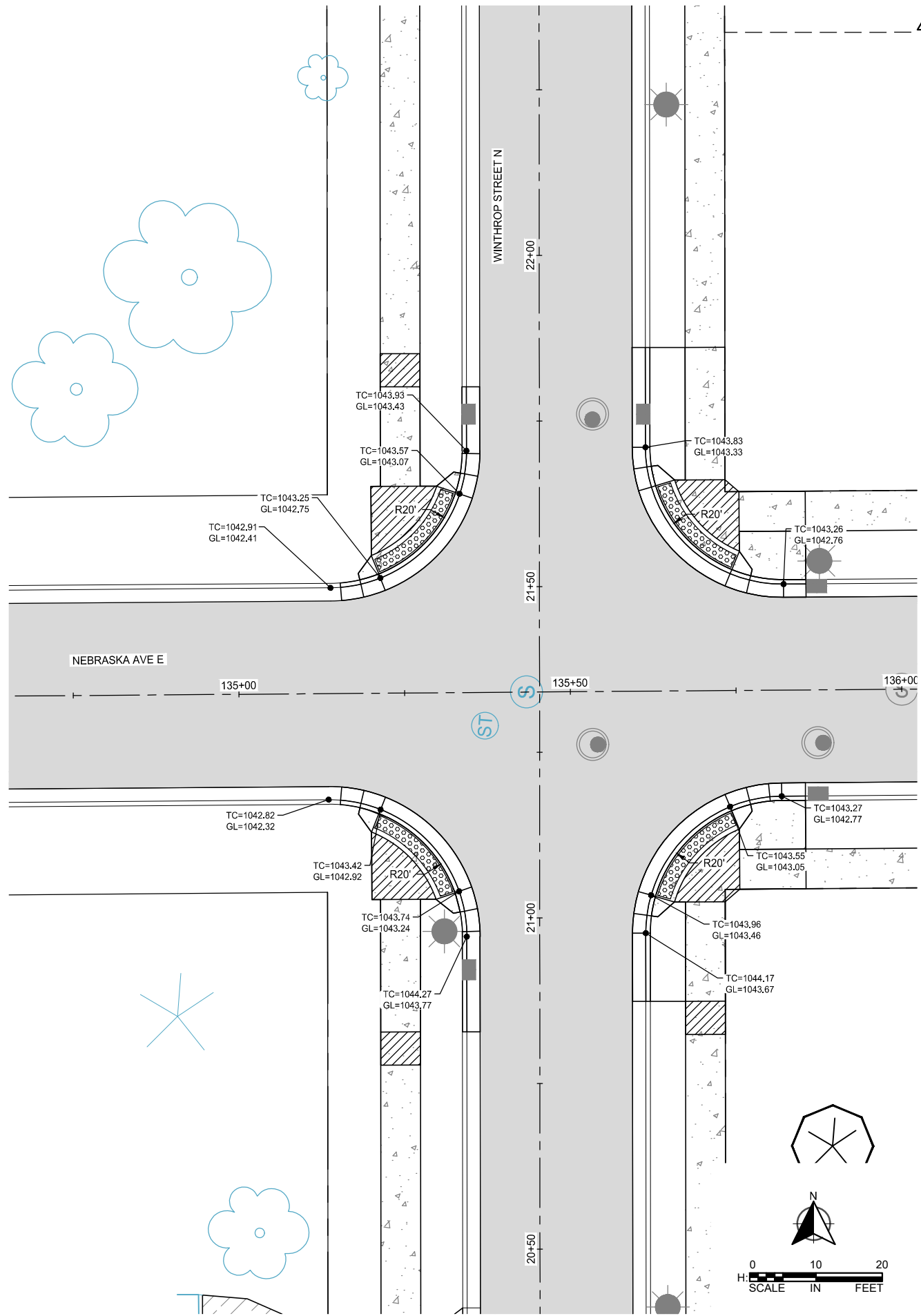
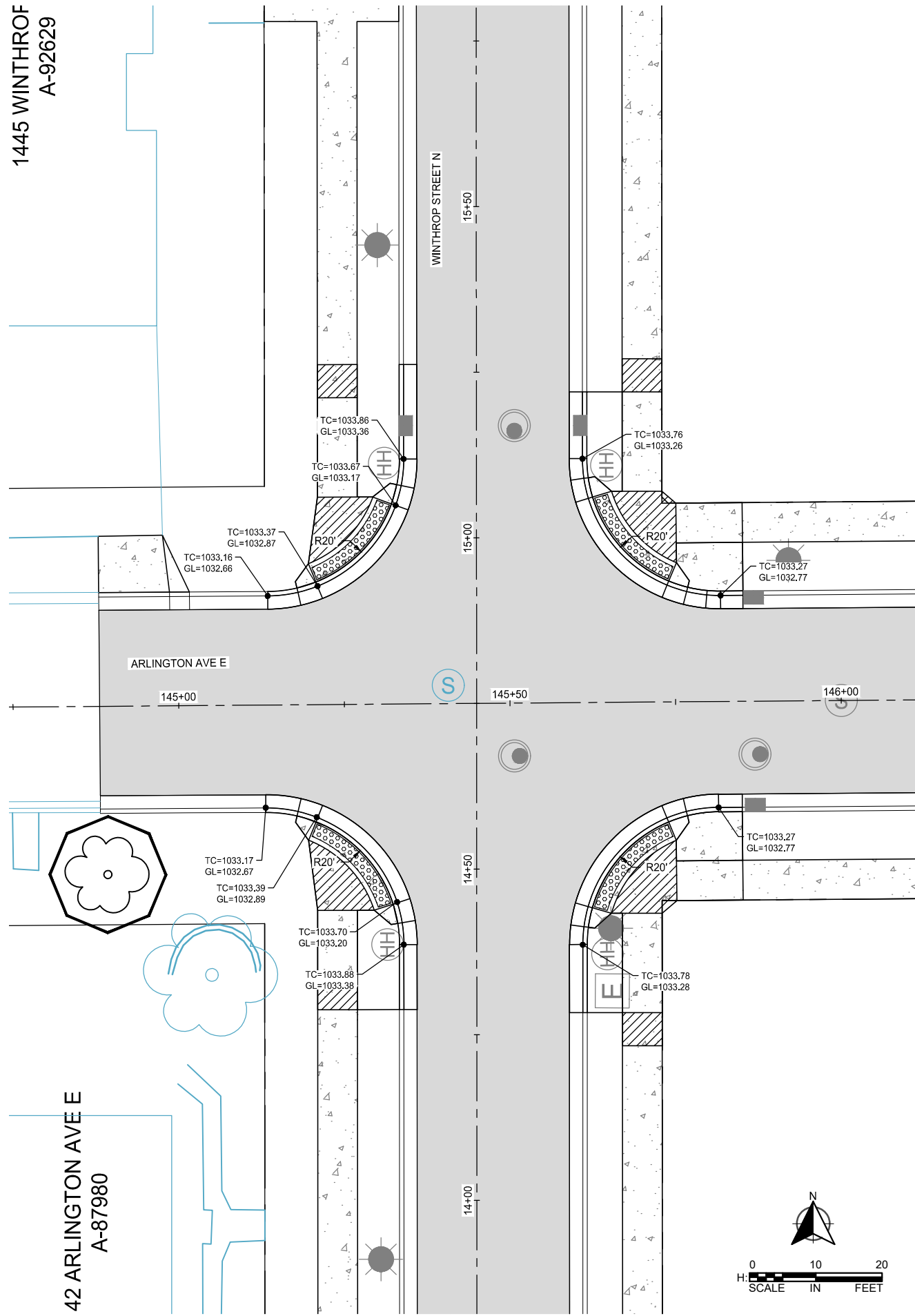
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WSB PROJECT NO.  
 013987-000

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1445 WINTHROP  
A-92629

42 ARLINGTON AVE E  
A-87980



wsb

SCALE: AS SHOWN PLAN BY: PJM  
DESIGN BY: PJM  
CHECK BY: PTH

REVISIONS	
NO.	DESCRIPTION
3	03/29/2024 PLAN REVISIONS

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.  
DATE: 03/29/2024 LIC. NO.: 23359

### INTERSECTION DETAILS

BID PACKAGE NO. 2  
INFRASTRUCTURE PLANS FOR:  
SAINT PAUL, MINNESOTA

Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000

SCALE: AS SHOWN  
 DESIGN BY: PJM  
 PLAN BY: PJM  
 CHECK BY: PTH

REVISIONS			
NO.	DATE	DESCRIPTION	PLAN REVISIONS
3	03/29/2024		

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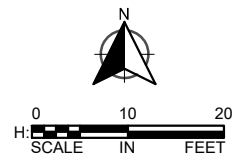
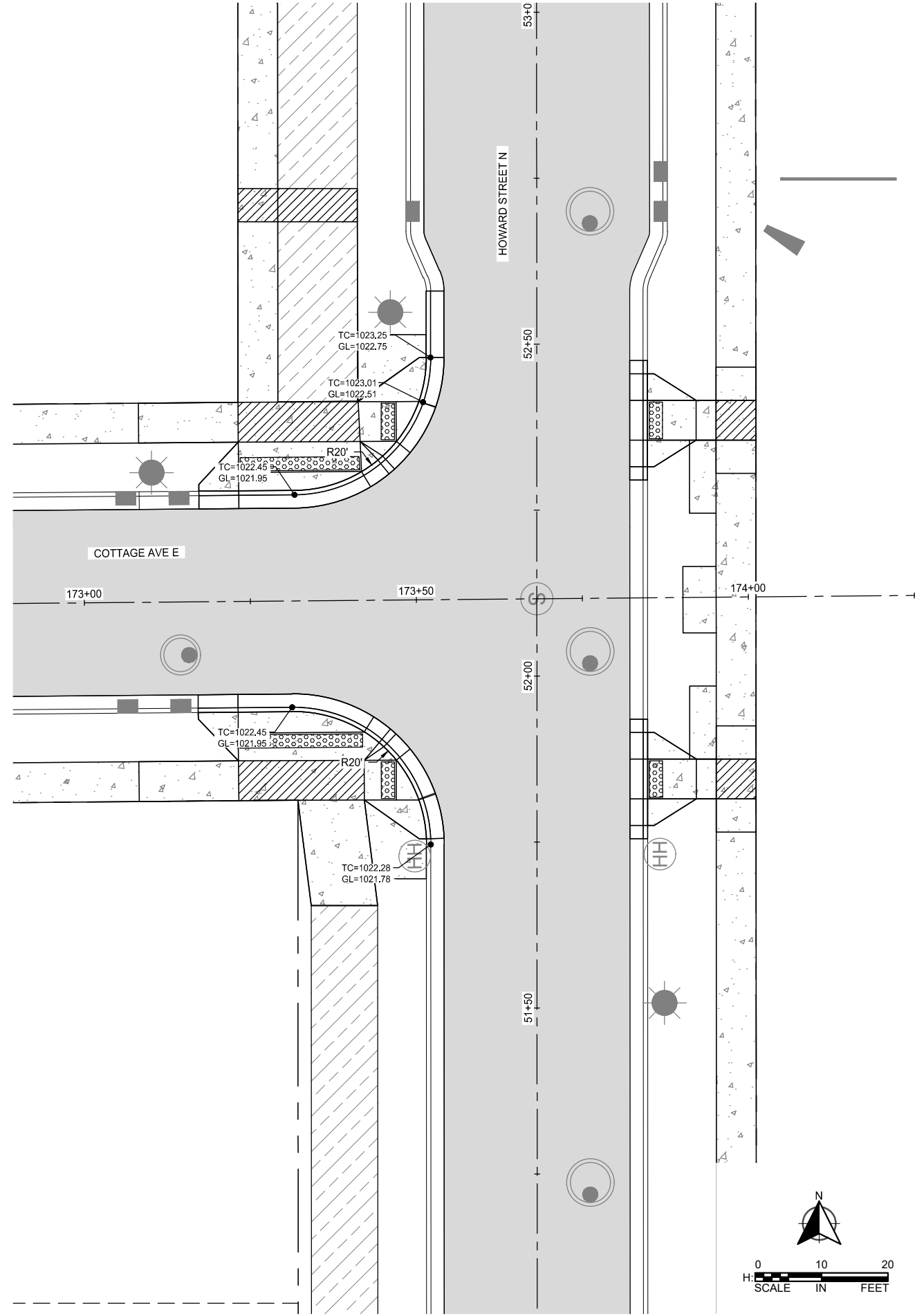
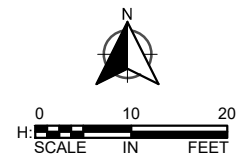
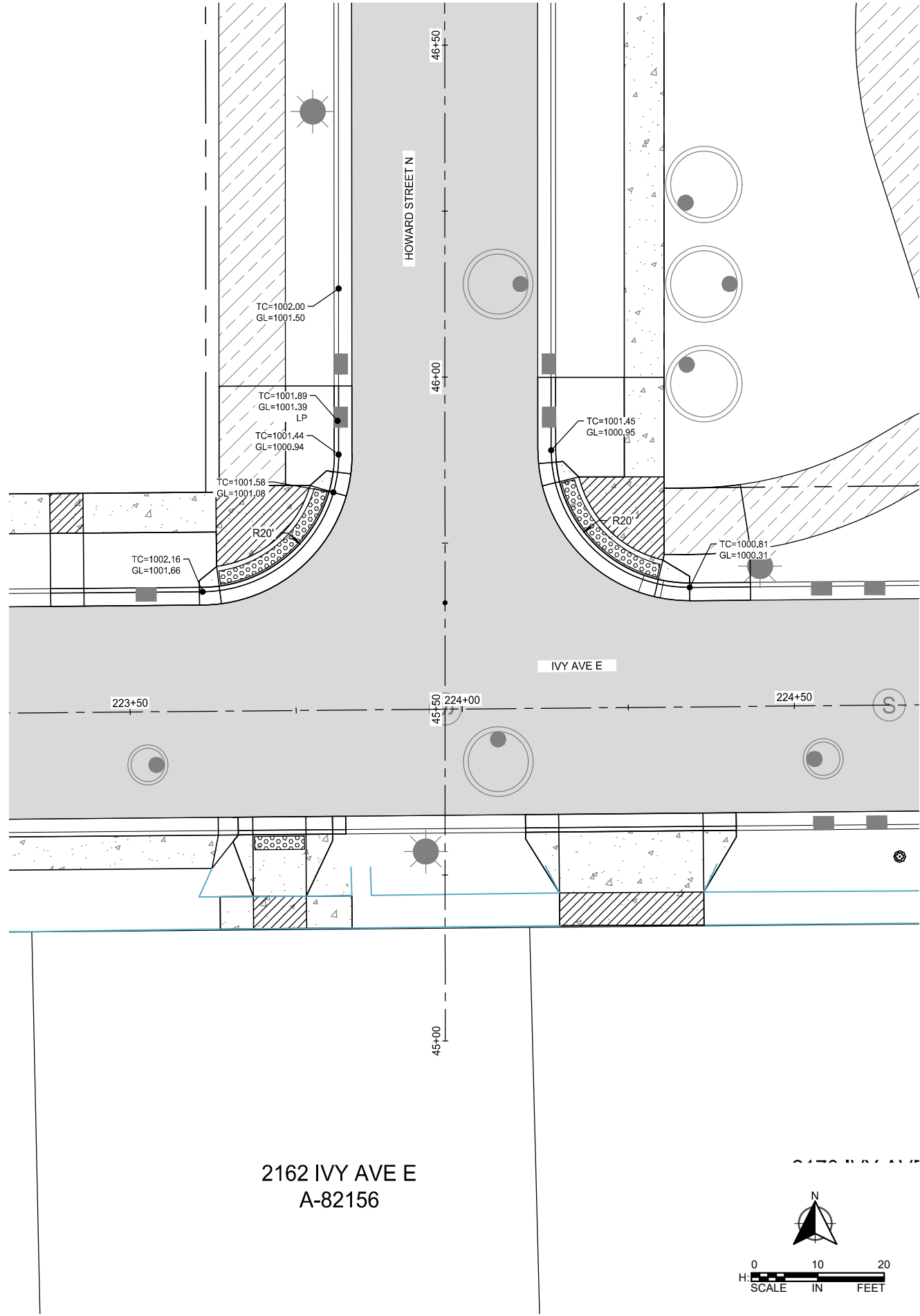
PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

INTERSECTION DETAILS

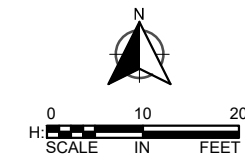
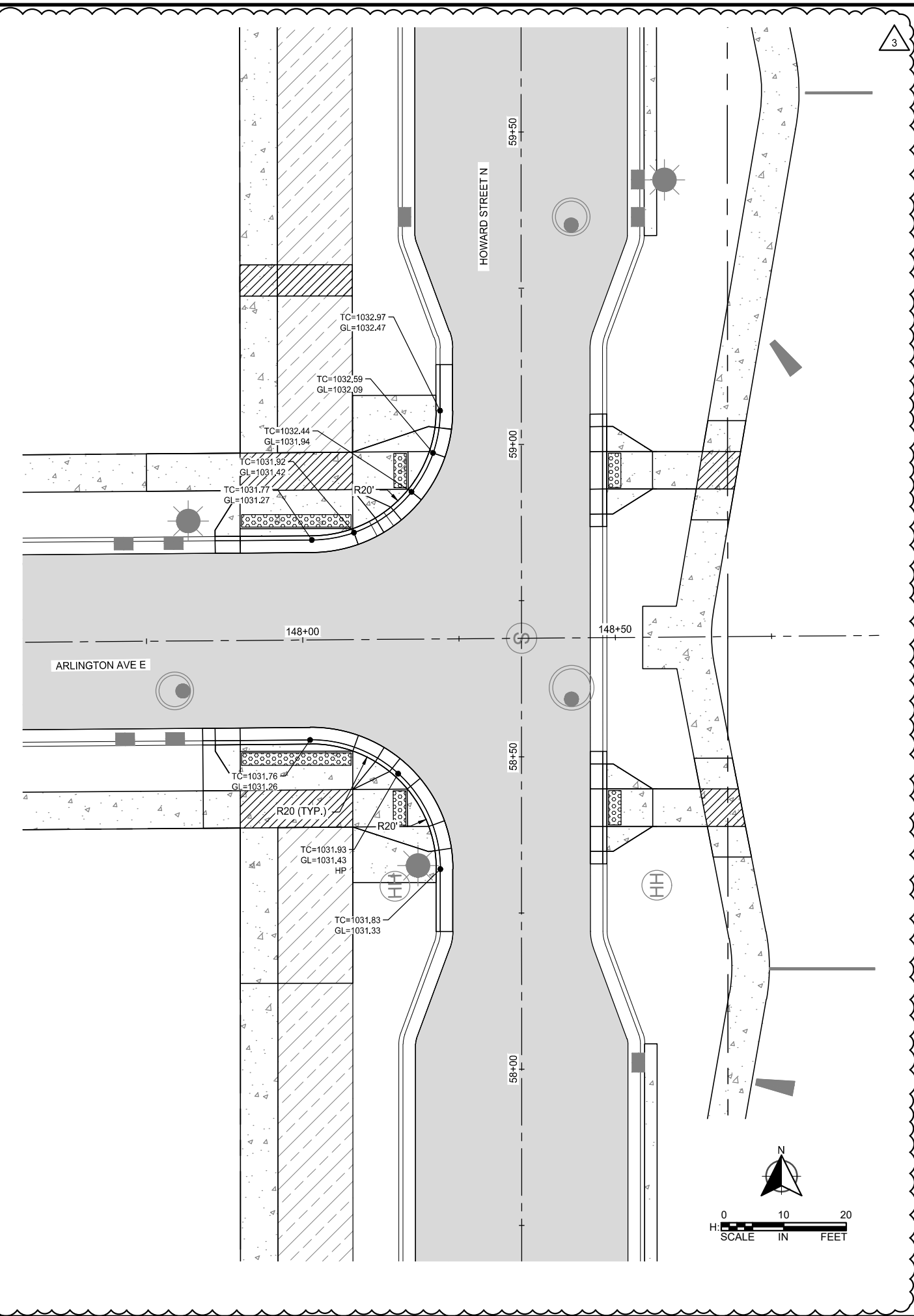
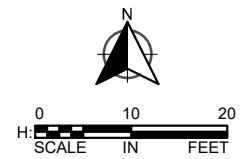
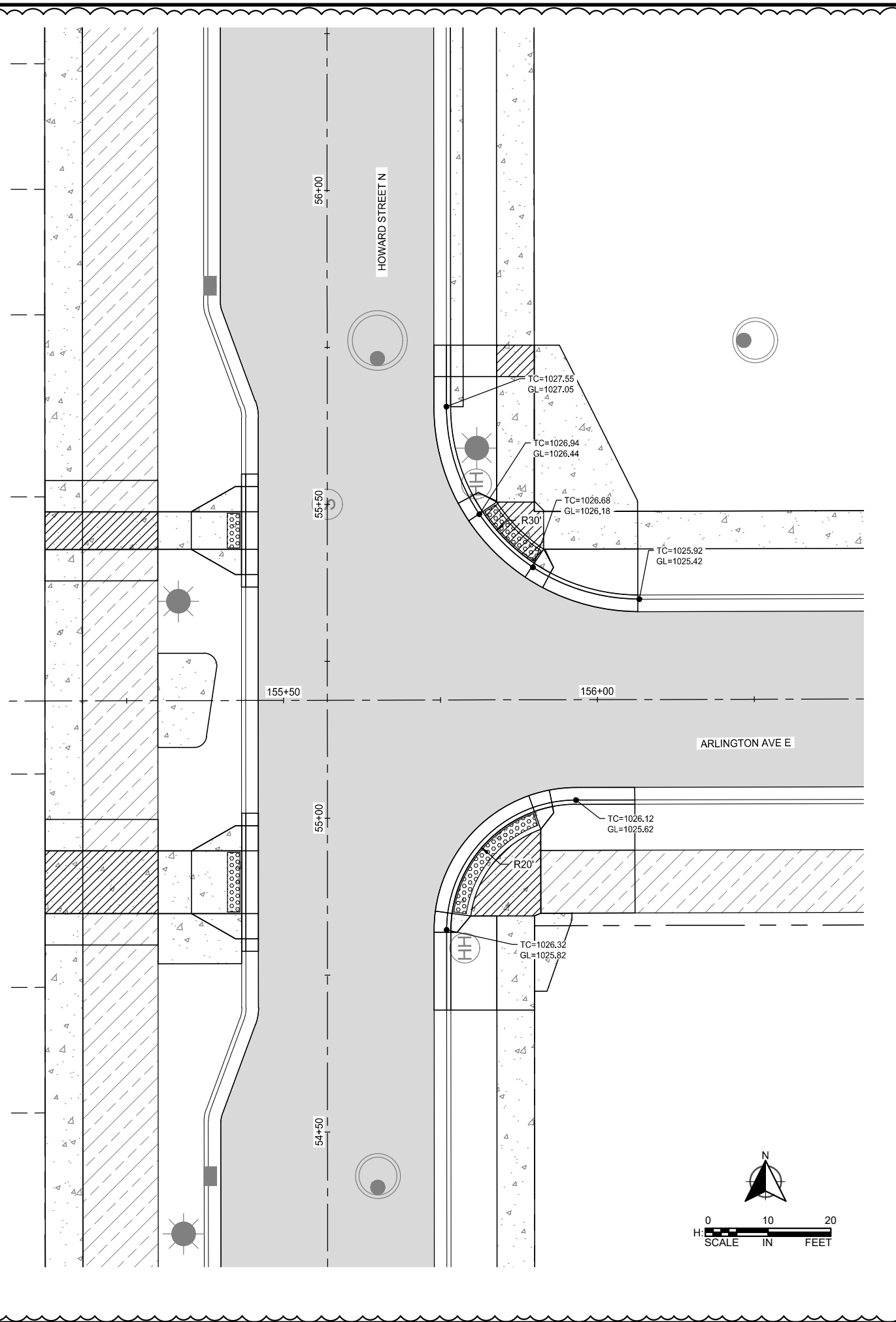
BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
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3



SCALE: AS SHOWN  
 PLAN BY: PJM  
 DESIGN BY: PJM  
 CHECK BY: PTH

REVISIONS			
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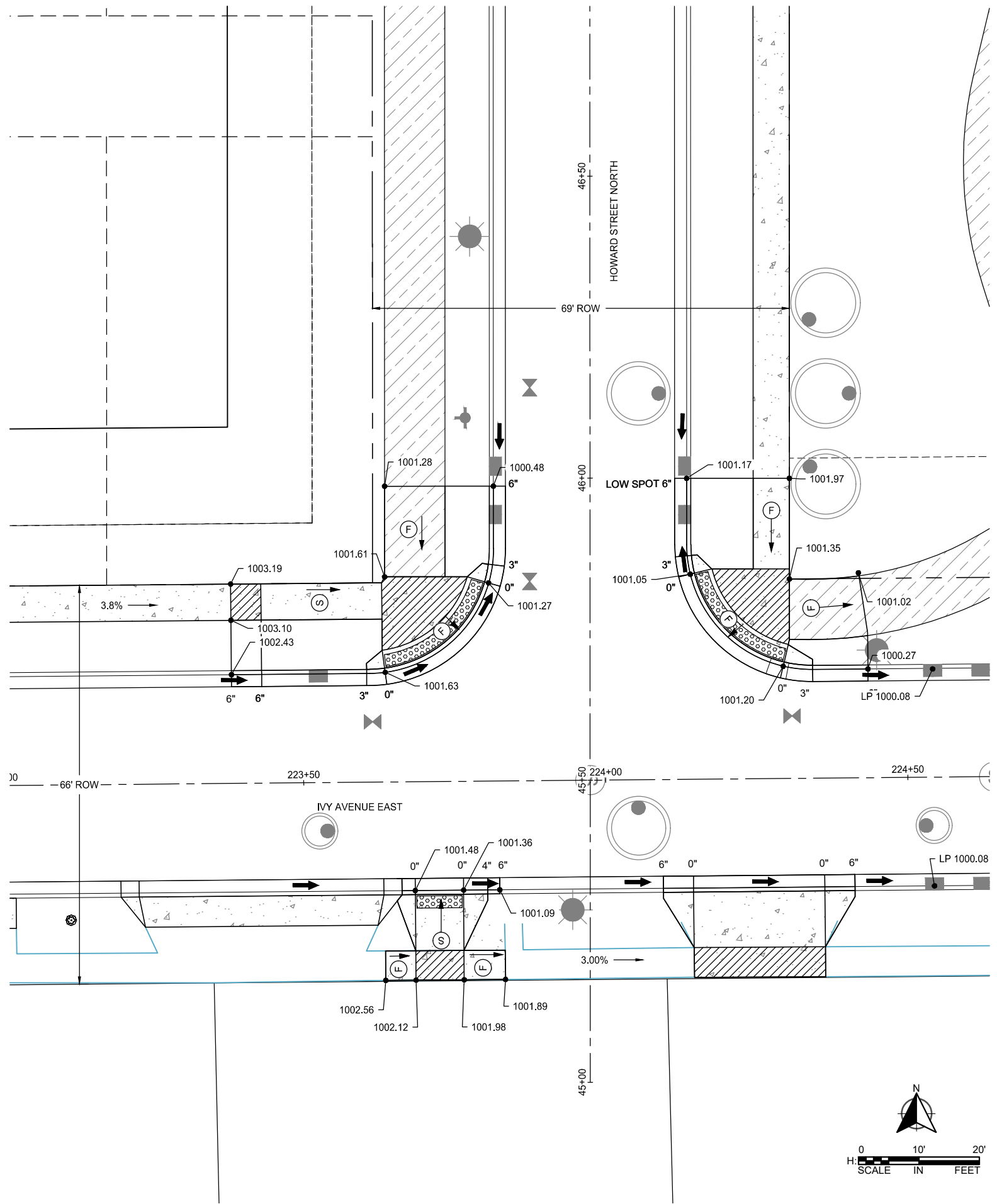
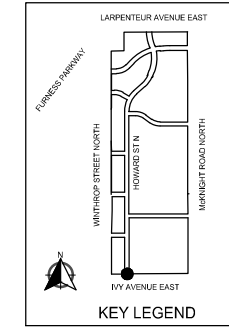
PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

**INTERSECTION DETAILS**

**BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA**

**Saint Paul  
 Port Authority**  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000



**LEGEND**

- (S) INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- (F) INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- (T) TRANSITION PANEL
- [Hatched Box] PROPOSED LANDING AREA 4'x4' MIN. DIMENSIONS MAX 2% SLOPE IN ALL DIRECTIONS
- [Dotted Box] PROPOSED TRUNCATED DOMES
- [Stippled Box] PROPOSED 6" CONCRETE WALK
- [Diagonal Lines Box] PROPOSED BITUMINOUS TRAIL
- [Solid Grey Box] BITUMINOUS REPLACEMENT LIMITS
- 965.77 PROPOSED SPOT ELEVATION
- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- ← PROPOSED FLOW DIRECTION
- SAWCUT (ALL TYPES, FULL DEPTH)
- - - RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

**NOTES:**  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION

REVISIONS		PLAN REVISIONS	
NO.	DATE	DESCRIPTION	
3	03/29/2024		

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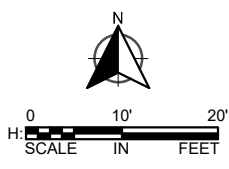
PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

**PEDESTRIAN RAMP PLAN**

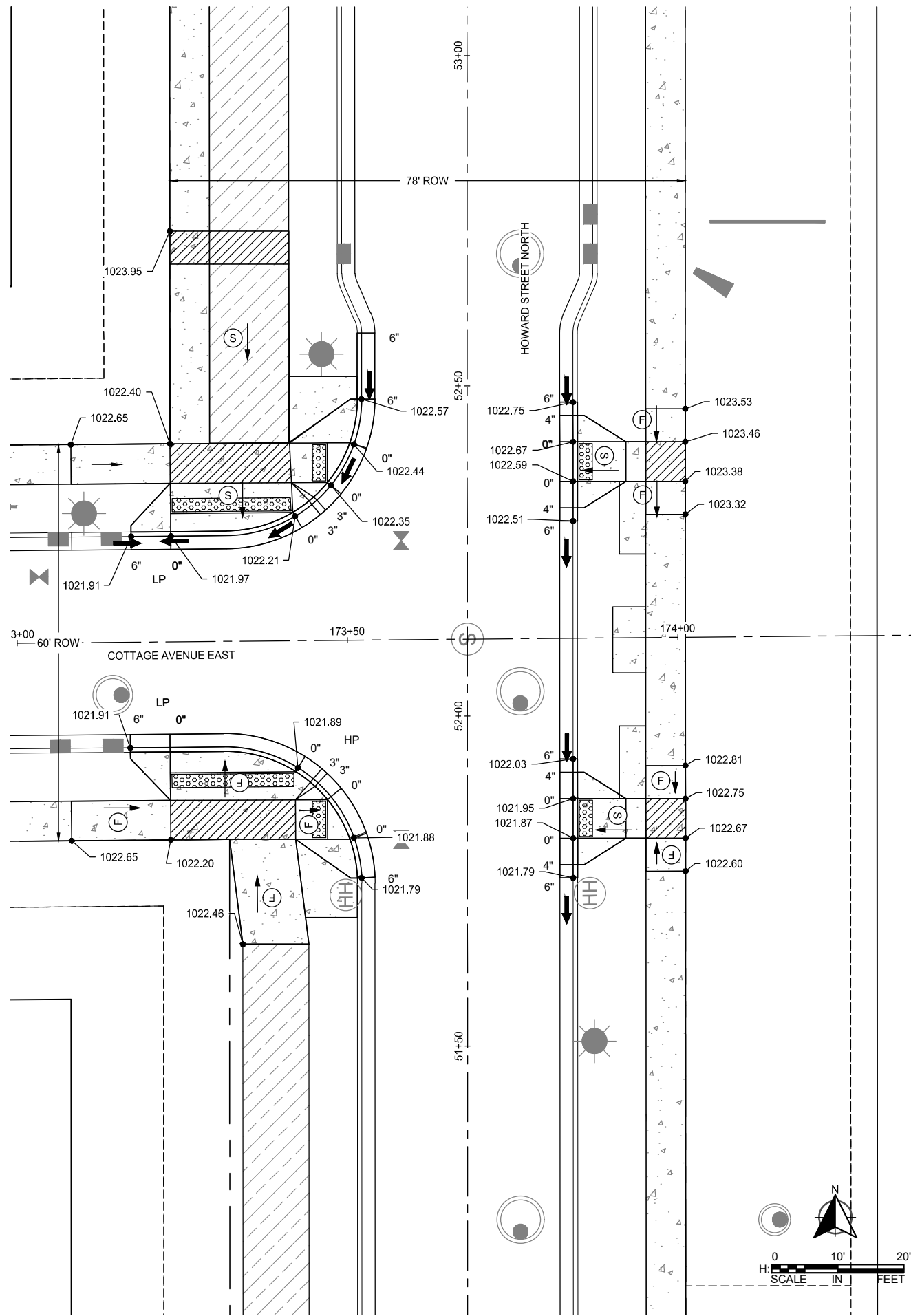
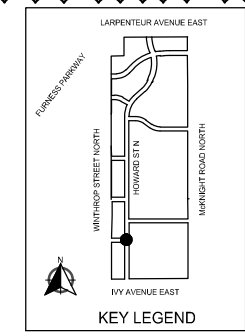
BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000



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**LEGEND**

- (S) INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
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- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- ← PROPOSED FLOW DIRECTION
- SAWCUT (ALL TYPES, FULL DEPTH)
- RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

**NOTES:**  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION

REVISIONS		PLAN REVISIONS	
NO.	DATE	DESCRIPTION	
3	03/29/2024		

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PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

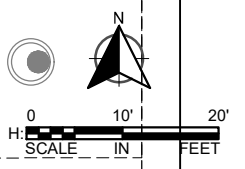
**PEDESTRIAN RAMP PLAN**

**BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA**

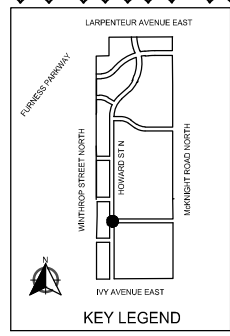
**Saint Paul  
 Port Authority**  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

1 HOWARD STREET NORTH @ COTTAGE AVENUE EAST  
 270 SCALE: NOT TO SCALE



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**LEGEND**

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- [Grey Box] BITUMINOUS REPLACEMENT LIMITS
- 965.77 PROPOSED SPOT ELEVATION
- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- ← PROPOSED FLOW DIRECTION
- SAWCUT (ALL TYPES, FULL DEPTH)
- RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

**NOTES:**  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION

REVISIONS		PLAN REVISIONS
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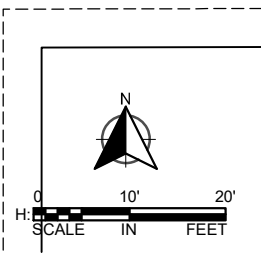
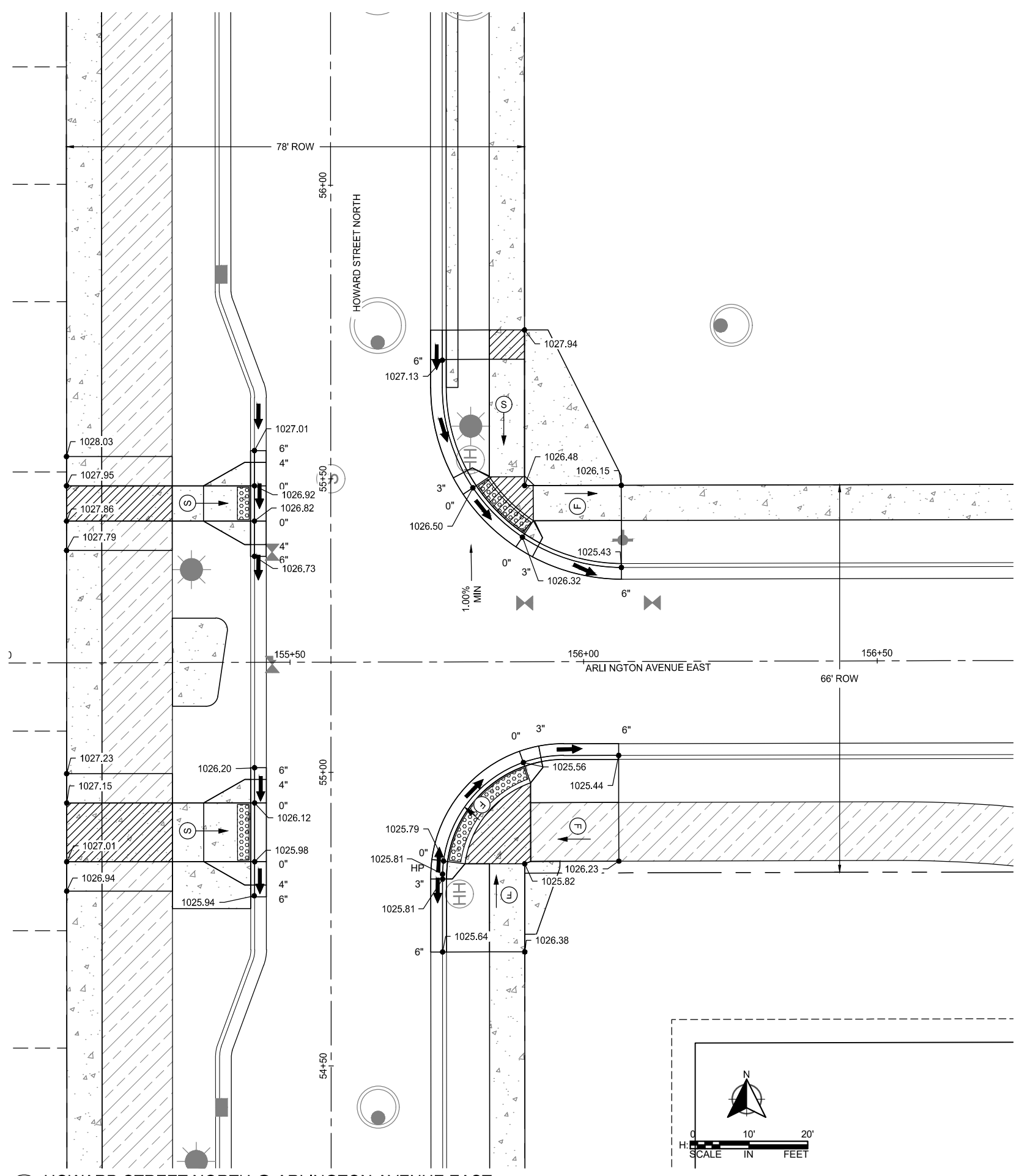
PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

**PEDESTRIAN RAMP PLAN**

BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

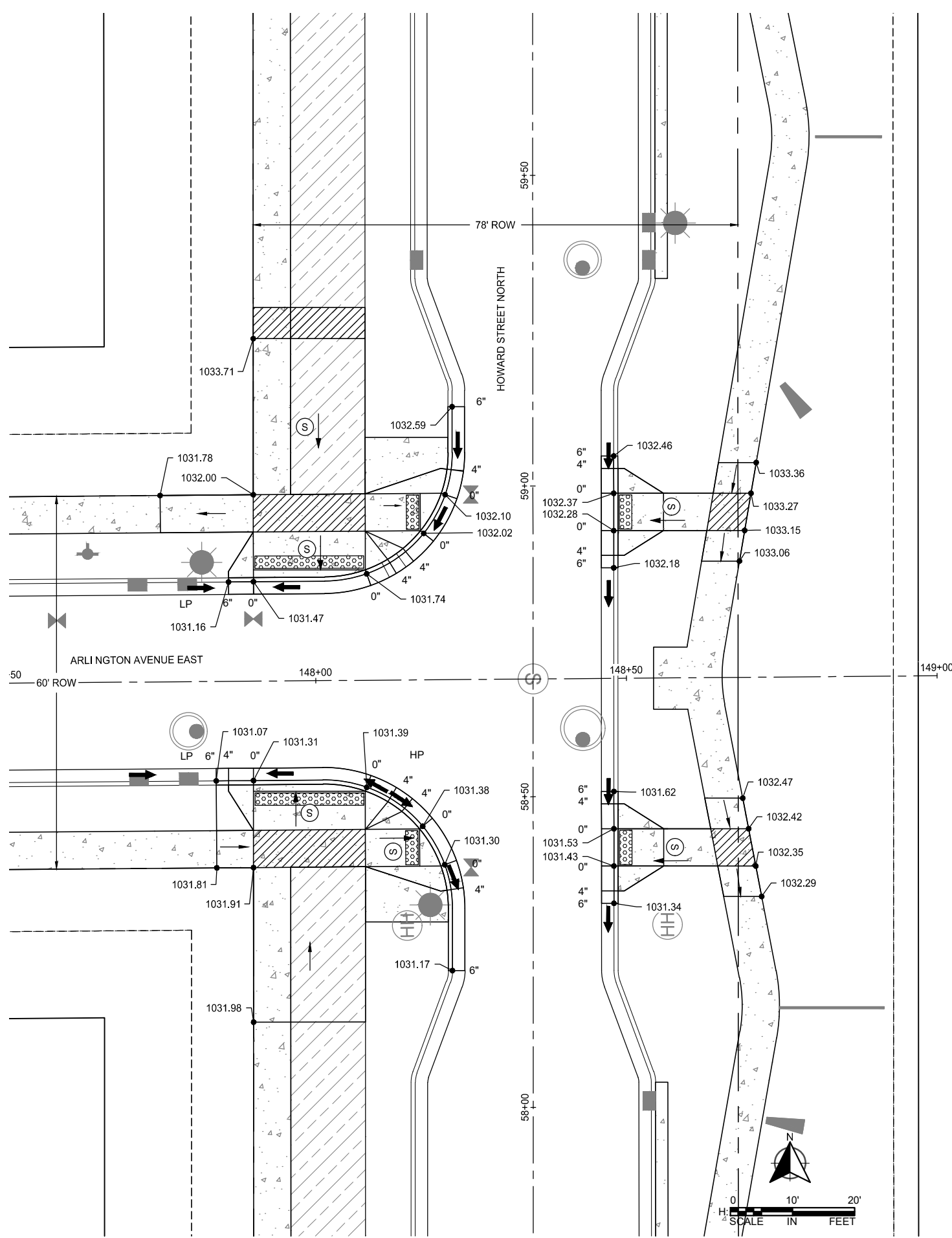
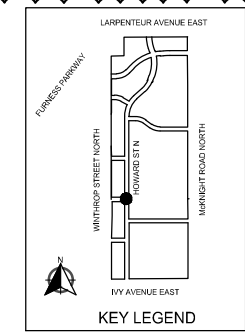
Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000



1 HOWARD STREET NORTH @ ARLINGTON AVENUE EAST  
 SCALE: NOT TO SCALE

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**LEGEND**

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- [Diagonal Lines Box] PROPOSED BITUMINOUS TRAIL
- [Solid Grey Box] BITUMINOUS REPLACEMENT LIMITS
- (965.77) PROPOSED SPOT ELEVATION
- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- ← PROPOSED FLOW DIRECTION
- SAWCUT (ALL TYPES, FULL DEPTH)
- RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

**NOTES:**  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION

REVISIONS		PLAN REVISIONS	
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3	03/29/2024		

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PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

**PEDESTRIAN RAMP PLAN**

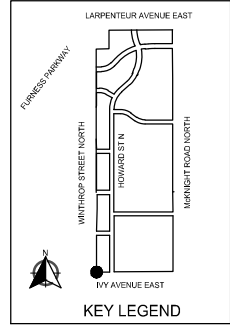
**BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA**

**Saint Paul  
 Port Authority**  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

1 HOWARD STREET NORTH @ ARLINGTON AVENUE EAST  
 272 SCALE: NOT TO SCALE

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REVISONS		PLAN REVISIONS	
NO.	DATE	DESCRIPTION	REVISION
3	03/29/2024		REVISION 3
4	06/19/2024		REVISION 4

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PAUL HORNBY, P.E.  
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- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- ← PROPOSED FLOW DIRECTION
- SAWCUT (ALL TYPES, FULL DEPTH)
- RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

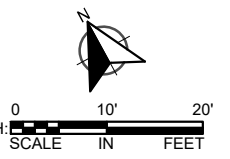
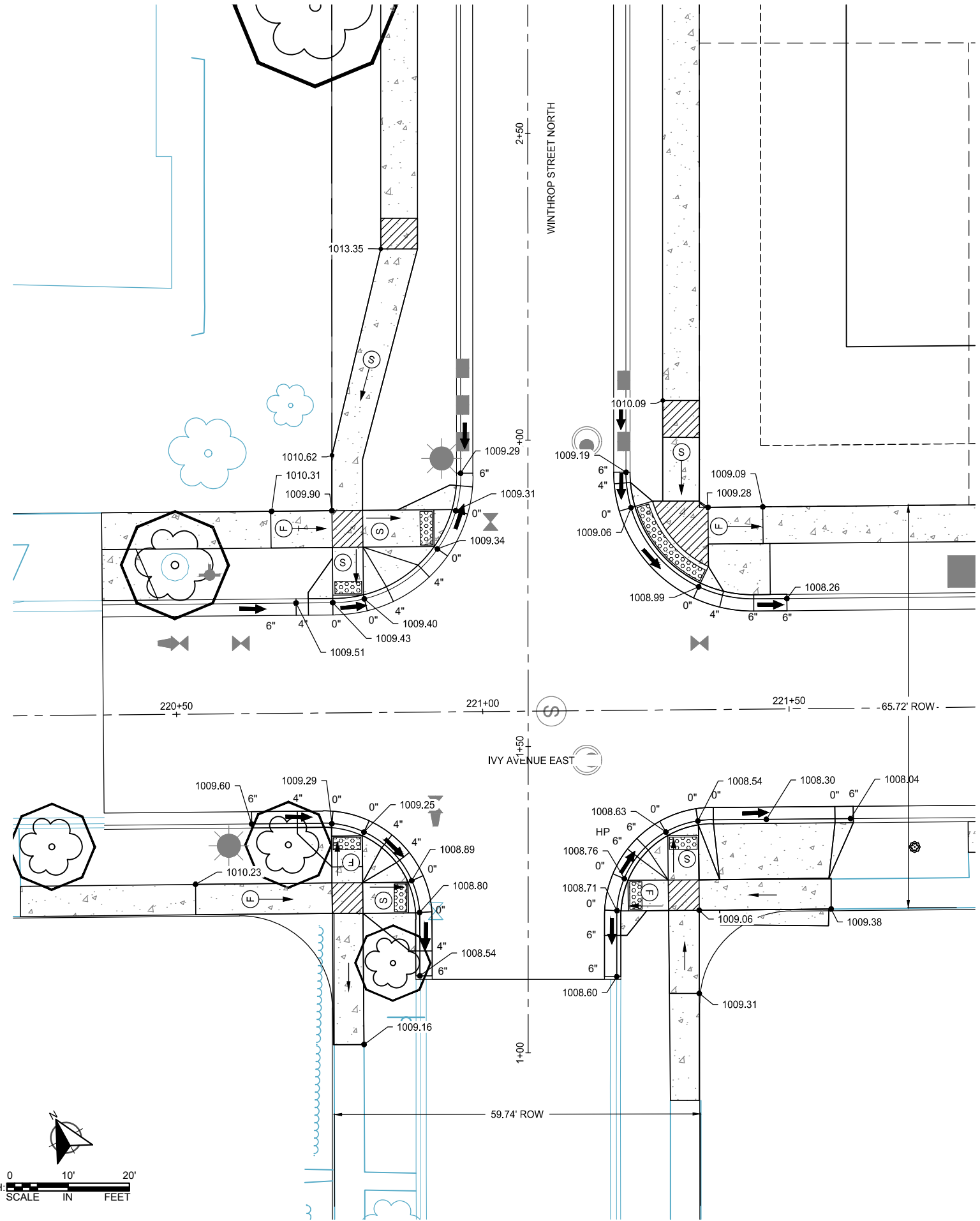
NOTES:  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION

**PEDESTRIAN RAMP PLAN**

BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
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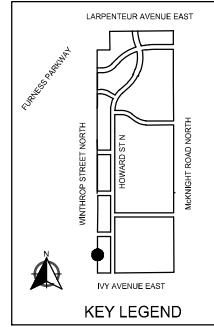
WSB PROJECT NO.  
 013987-000



1 WINTHROP STREET NORTH @ IVY AVENUE EAST  
 SCALE: NOT TO SCALE



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REVISIONS		PLAN REVISIONS	
NO.	DATE	DESCRIPTION	
3	03/29/2024		

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PAUL HORNBY, P.E.  
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3

**LEGEND**

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- [Grey Box] BITUMINOUS REPLACEMENT LIMITS
- (965.77) PROPOSED SPOT ELEVATION
- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- [Arrow] PROPOSED FLOW DIRECTION
- [Sawcut Symbol] SAWCUT (ALL TYPES, FULL DEPTH)
- [Dashed Line] RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

NOTES:  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION

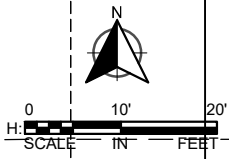
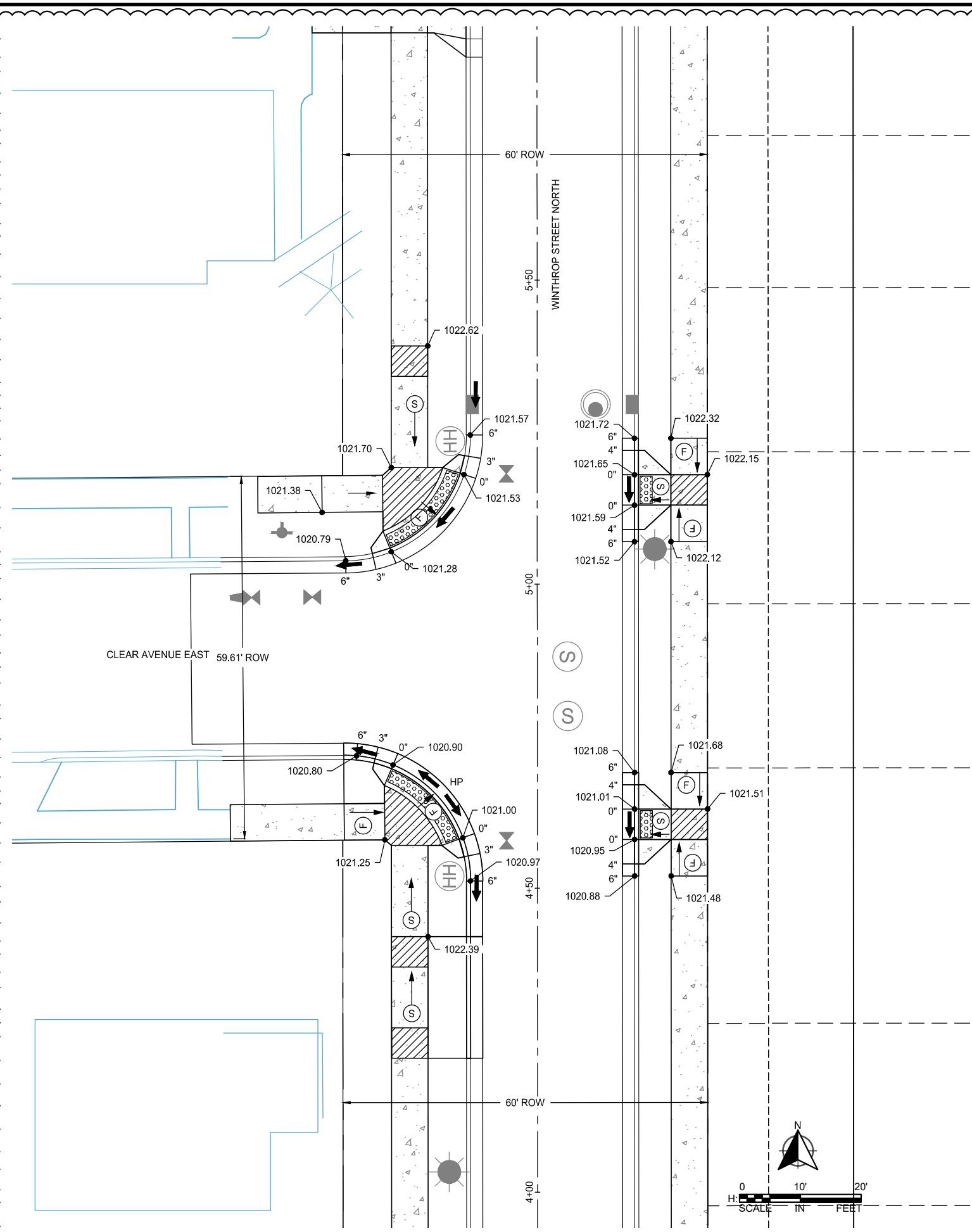
**PEDESTRIAN RAMP PLAN**

BID PACKAGE NO. 2  
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 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

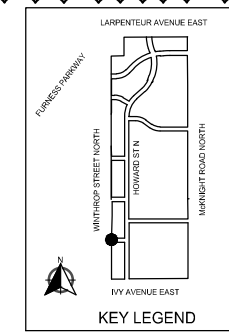
WSB PROJECT NO.  
 013987-000

3



2 CLEAR AVENUE EAST @ WINTHROP STREET NORTH  
 SCALE: NOT TO SCALE

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REVISIONS		PLAN REVISIONS	
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PAUL HORNBY, P.E.  
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- 965.77 PROPOSED SPOT ELEVATION
- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- ← PROPOSED FLOW DIRECTION
- SAWCUT (ALL TYPES, FULL DEPTH)
- RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

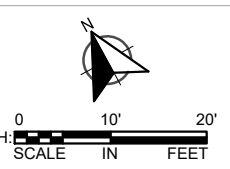
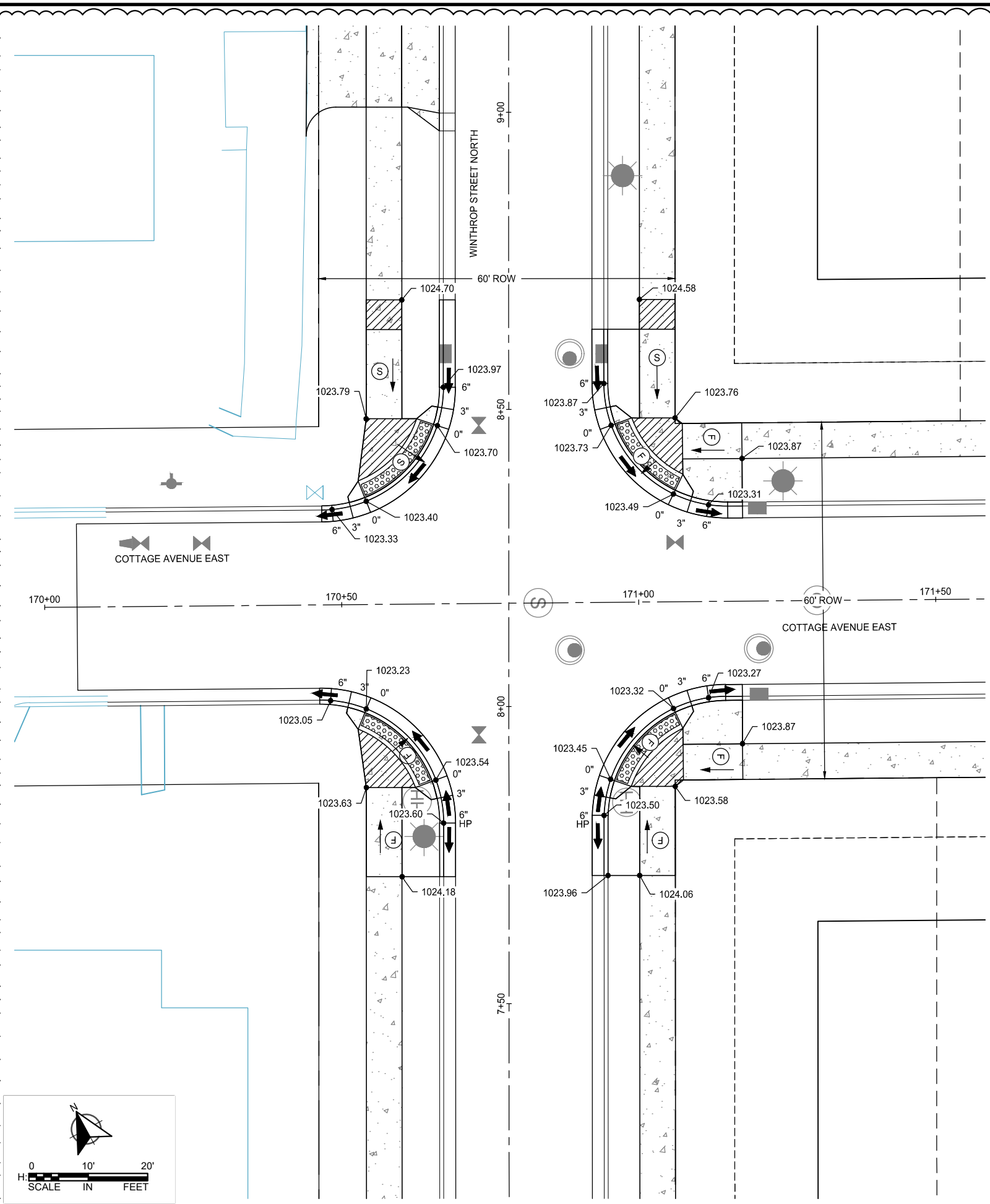
**NOTES:**  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION

**PEDESTRIAN RAMP PLAN**

BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

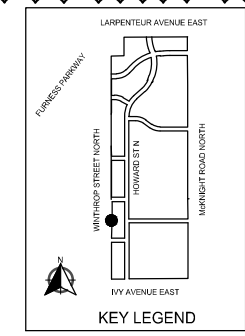
Saint Paul  
 Port Authority  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000



1 COTTAGE AVENUE EAST @ WINTHROP STREET NORTH  
 281 SCALE: NOT TO SCALE

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REVISIONS		PLAN REVISIONS
NO.	DATE	DESCRIPTION
3	03/29/2024	

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PAUL HORNBY, P.E.  
 DATE: 03/29/2024 LIC. NO.: 23359

**PEDESTRIAN RAMP PLAN**

**BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA**

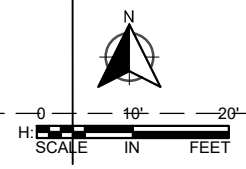
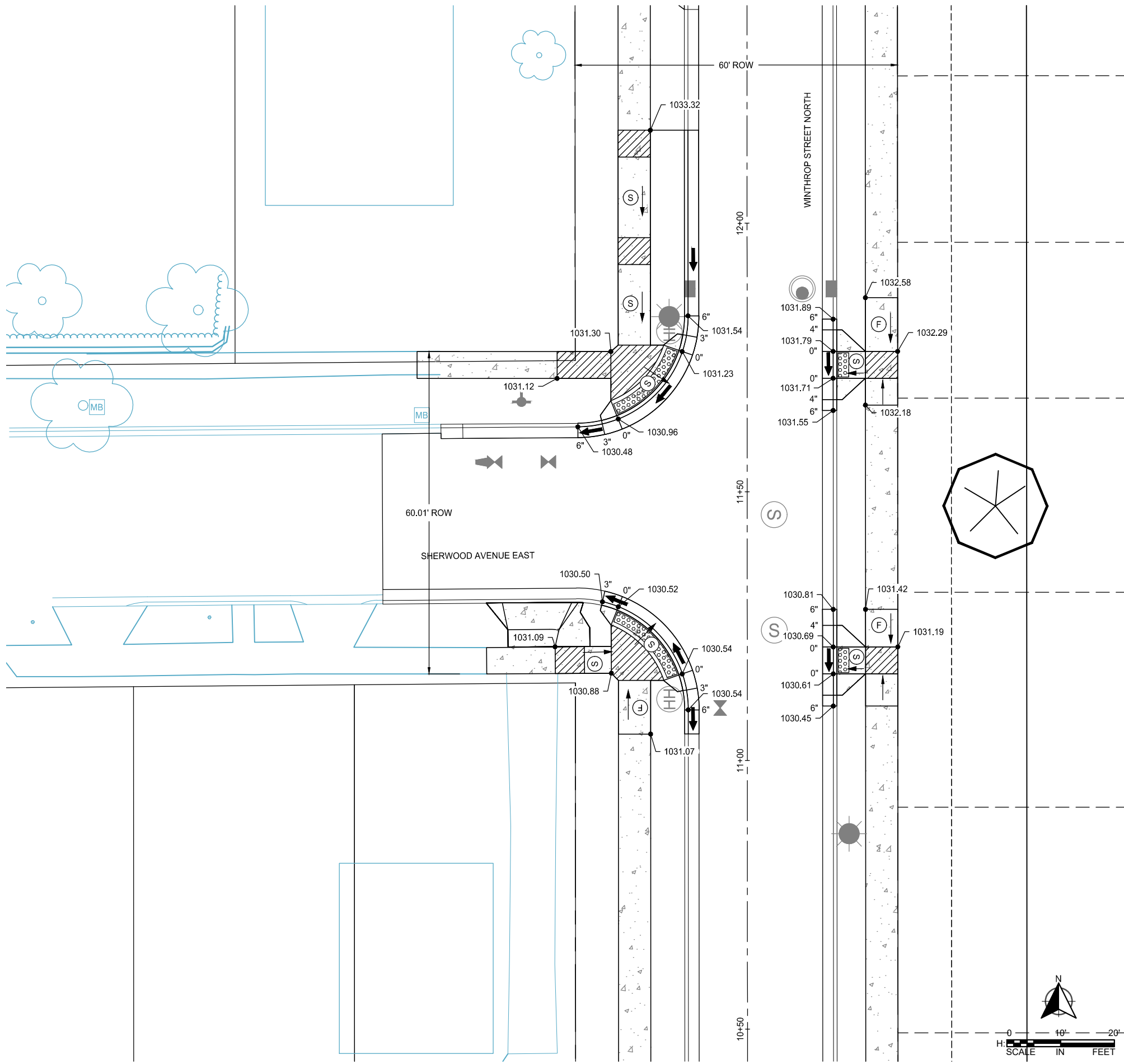
**Saint Paul  
 Port Authority**  
 400 Wabasha Street North  
 Suite 240  
 St Paul, Minnesota 55102  
 Phone 612-224-5686

WSB PROJECT NO.  
 013987-000

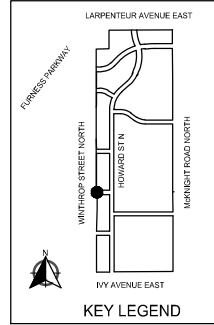
**LEGEND**

- (S) INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- (F) INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- (T) TRANSITION PANEL
- [Hatched Box] PROPOSED LANDING AREA 4'x4' MIN. DIMENSIONS MAX 2% SLOPE IN ALL DIRECTIONS
- [Dotted Box] PROPOSED TRUNCATED DOMES
- [Stippled Box] PROPOSED 6" CONCRETE WALK
- [Diagonal Lines Box] PROPOSED BITUMINOUS TRAIL
- [Solid Grey Box] BITUMINOUS REPLACEMENT LIMITS
- 965.77 PROPOSED SPOT ELEVATION
- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- ← PROPOSED FLOW DIRECTION
- SAWCUT (ALL TYPES, FULL DEPTH)
- RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

**NOTES:**  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION



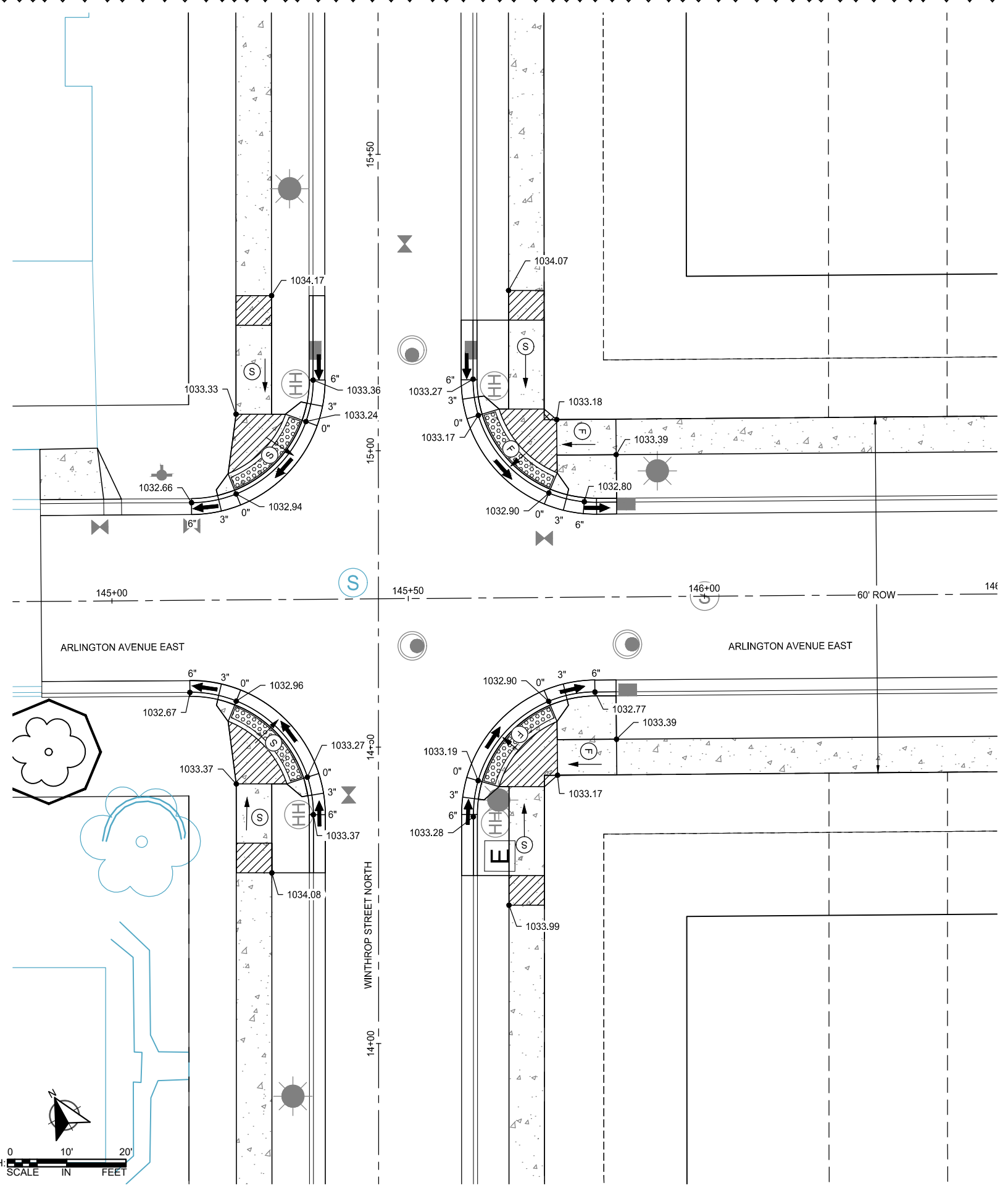
2 SHERWOOD AVENUE EAST @ WINTHROP STREET NORTH  
 282 SCALE: NOT TO SCALE



**LEGEND**

- (S) INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- (F) INDICATES PEDESTRIAN RAMP: SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- (T) TRANSITION PANEL
- [Hatched Box] PROPOSED LANDING AREA 4'x4' MIN. DIMENSIONS MAX 2% SLOPE IN ALL DIRECTIONS
- [Dotted Box] PROPOSED TRUNCATED DOMES
- [Stippled Box] PROPOSED 6" CONCRETE WALK
- [Diagonal Lines Box] PROPOSED BITUMINOUS TRAIL
- [Solid Grey Box] BITUMINOUS REPLACEMENT LIMITS
- (965.77) PROPOSED SPOT ELEVATION
- 965.77 EXISTING SPOT ELEVATION
- X" CURB HEIGHT
- ← PROPOSED FLOW DIRECTION
- SAWCUT (ALL TYPES, FULL DEPTH)
- RIGHT OF WAY
- (A) MNDOT STANDARD DETAIL 7113A

**NOTES:**  
 1) EPOXY TIE BARS INCIDENTAL TO PEDESTRIAN RAMP INSTALLATION



1 ARLINGTON AVENUE EAST @ WINTHROP STREET NORTH  
 SCALE: NOT TO SCALE

REVISIONS		PLAN REVISIONS	
NO.	DATE	DESCRIPTION	
3	03/29/2024		

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PAUL HORNBY, P.E.  
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**PEDESTRIAN RAMP PLAN**

BID PACKAGE NO. 2  
 INFRASTRUCTURE PLANS FOR:  
 SAINT PAUL, MINNESOTA

Saint Paul  
 Port Authority  
 400 Wabasha Street North  
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