

Exhibit A

Ordinance Permit 20240020401



SAINT PAUL
PUBLIC WORKS

DEPARTMENT OF PUBLIC WORKS
SEAN KERSHAW, DIRECTOR

25 West 4th Street, 1500 City Hall Annex
Saint Paul, MN 55102
Tel: 651-266-6100 | Fax: 651-266-6222

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 -Howard and Winthrop from Ivy to Arlington and Arlington from Howard to Winthrop and all associated catch basins. - OP 7 20240020401

Project Description

License No. 59517

09-25-2025

(Signature and License No.)

Date

Bolton and Menk for Saint Paul Port Authority

Organization (Print)

THE HEIGHTS SITE REDEVELOPMENT

(AKA HILLCREST GOLF COURSE)

ORDINANCE PERMIT 07

20240020401

AS-BUILTS

2200 Larpenteur Avenue East, St. Paul, Minnesota

WSB Project Number013987-000

Issue Date01-24-2024; BID PACKAGE NO. 2



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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
LICENSE #: 59517

9-23-2025

DATE

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

1

2

3

0 - PLAN SHEET IS FOR REFERENCE ONLY
X - PLAN SHEET IS INCLUDED IN BID PACKAGE
BLANK FIELD INDICATES PLAN SHEET NOT INCLUDED

SHEET NO.	DESCRIPTION	BID PACKAGE NO. 2 INFRASTRUCTURE PLANS
1	TITLE SHEET	X
2-3	STATEMENT OF ESTIMATED QUANTITIES	X
4-9	EARTHWORK TABULATIONS	X
10-14	UTILITY TABULATIONS	X
15-23	STANDARD DETAILS	X
24-29	PEDESTRIAN CURB RAMP DETAILS	X
30-31	GENERAL NOTES	X
32-36	EXISTING CONDITIONS PLAN	X
37-45	TYPICAL SECTIONS	X
46-53	ALIGNMENT PLANS	X
54-57	BUILDING DEMOLITION PLAN	
58-62	CONTAMINATED SOILS REMOVAL PLAN	
63-76	SITE PLAN	0
77-95	REMOVAL PLAN	X
96-109	GRADING PLAN	X
110-114	SUBSURFACE STORMWATER STRUCTURE DETAIL	X
115	SUBSURFACE STORMWATER STRUCTURE DETAIL	0
116-120	SPECIAL DRAINAGE STRUCTURE DETAILS	X
121-130	DISTRICT STORMWATER SWALE DETAILS	X
131-134	RETAINING WALL PLAN & DETAILS	0
135-164	SANITARY SEWER AND WATERMAIN CONSTRUCTION	X
165-203	STORM SEWER CONSTRUCTION	X
204-235	STREET CONSTRUCTION	X
236-248	TRAIL CONSTRUCTION PLAN	X
249-260	INTERSECTION DETAILS	X
261-290	PEDESTRIAN RAMP PLAN	X
291-312	STREET LIGHTING PLAN	X
313-323	TRAFFIC CONTROL PLANS	X
324-347	SIGNING AND STRIPING PLANS	X
348	TEMPORARY SEDIMENT CONTROL PLAN & DETAILS	0
349-369	EROSION CONTROL PLAN & DETAILS	X
370-373	STORM WATER POLLUTION PREVENTION PLAN	X
374-435	CROSS SECTIONS	X
436-448	LANDSCAPE AMENITY PLAN (L300-L305, L310-L316)	X
449	TREE PROTECTION DETAILS (L501)	X
450-451	LANDSCAPE AMENITY DETAILS (L601 - L602)	X

THIS PLAN SET CONTAINS 451 SHEETS

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	

wsb

SCALE: DESIGN BY:

AS SHOWN

PLAN BY: CHECK BY:

PJM PTH JMT

REVISIONS

NO.	DESCRIPTION	DATE	ADDENDUM NO. 1	ADDENDUM NO. 2	PLAN REVISIONS
1		01/30/2024			
2		02/09/2024			
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

TITLE SHEET

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

REVISIONS	
NO.	DESCRIPTION

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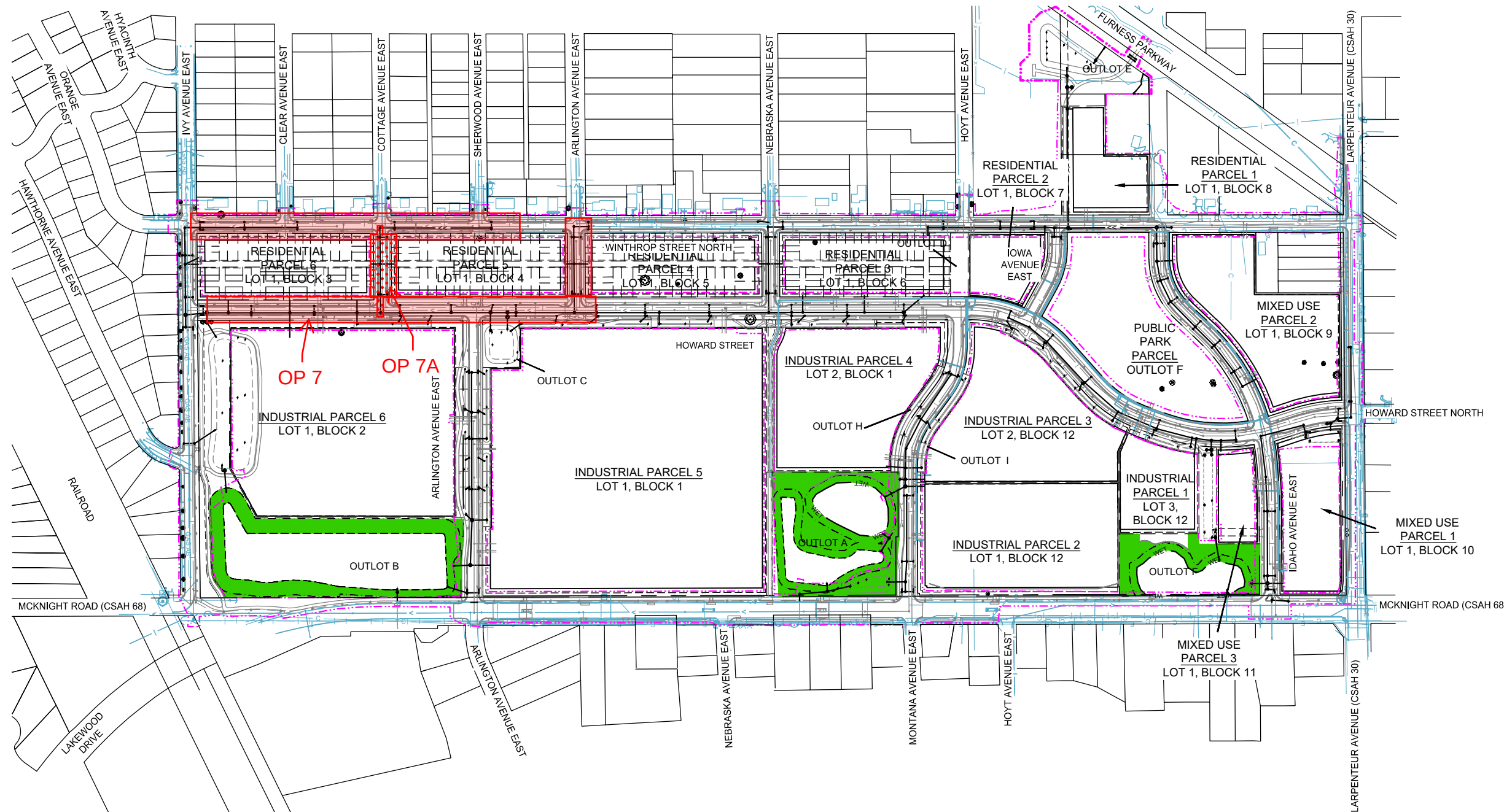
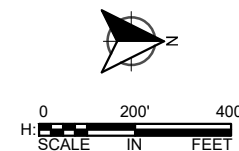
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

OVERALL
STORM SEWER
CONSTRUCTION

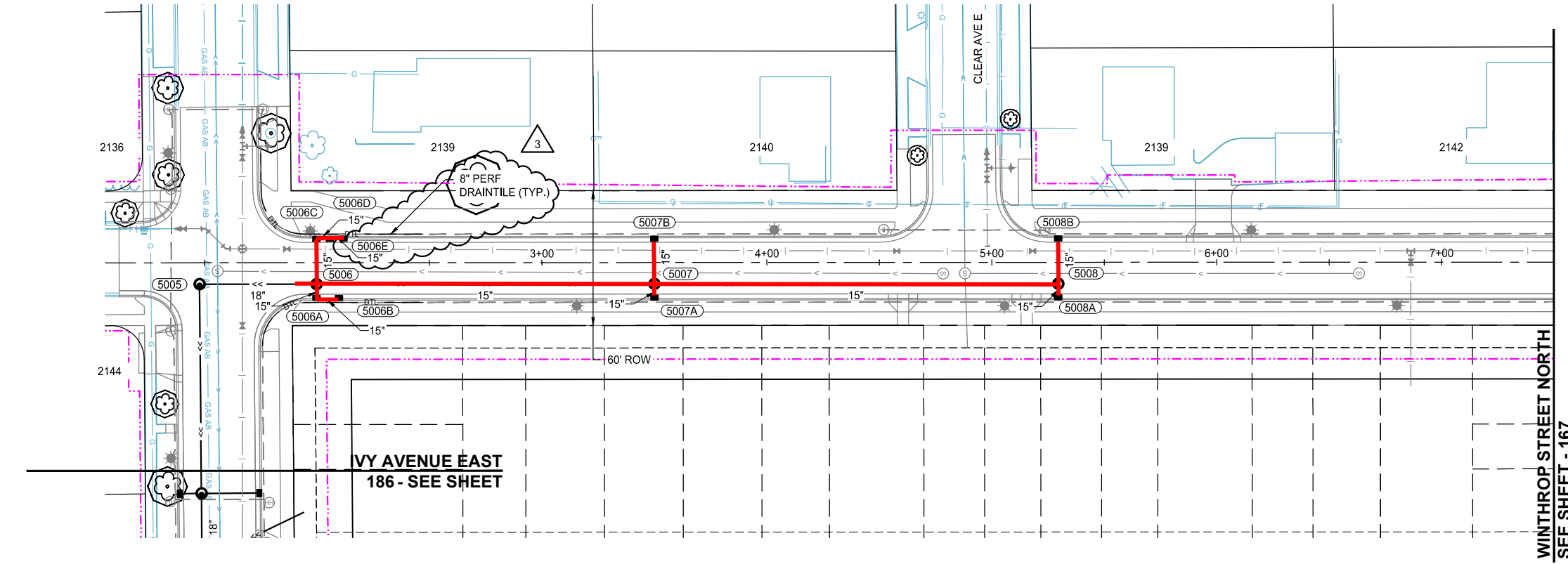
INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

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

WSB PROJECT NO.
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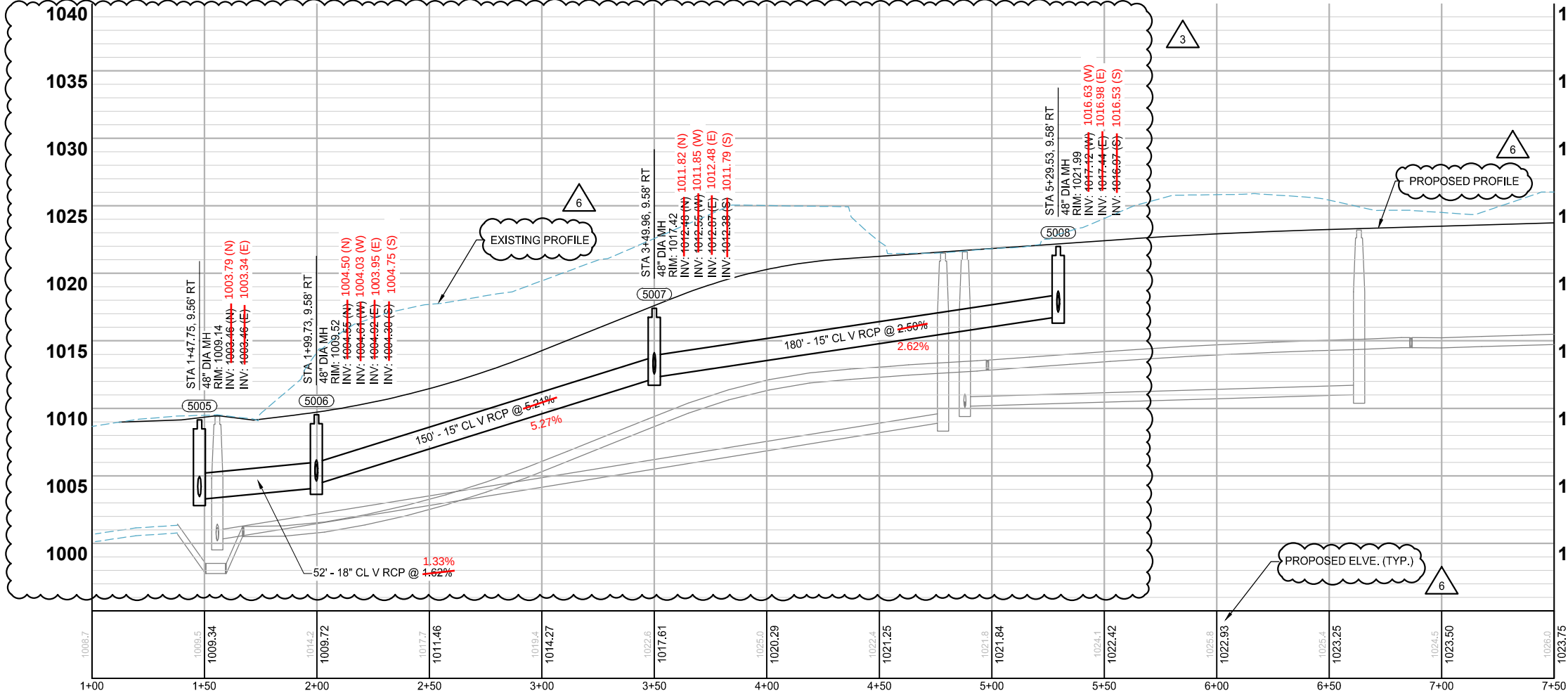


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Note: As-built documents 12 LF of 18" RCP south of Structure 5006. Remaining 40 LF were included in Ordinance Permit 20240020402.

WINTHROP STREET NORTH



NOTES:
1. SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
2. ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

- LEGEND
- CONSTRUCTION LIMITS
 - PROPOSED CURB AND GUTTER
 - PROPOSED BITUMINOUS (EDGE)
 - PROPOSED CONCRETE (EDGE)
 - PROPOSED GRAVEL (EDGE)
 - EXISTING STORM SEWER PIPE
 - EXISTING STORM STRUCTURE
 - PROPOSED STORM SEWER PIPE
 - PROPOSED DRAINAGE STRUCTURE
 - PROPOSED SUBSURFACE DRAIN
 - PROPOSED RIPRAP

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ASHLEIGH K ROSA
LICENSE #: 59517

9-23-2025
DATE

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

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

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

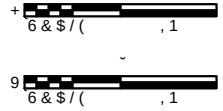
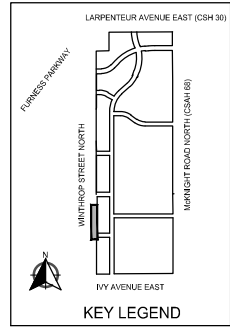
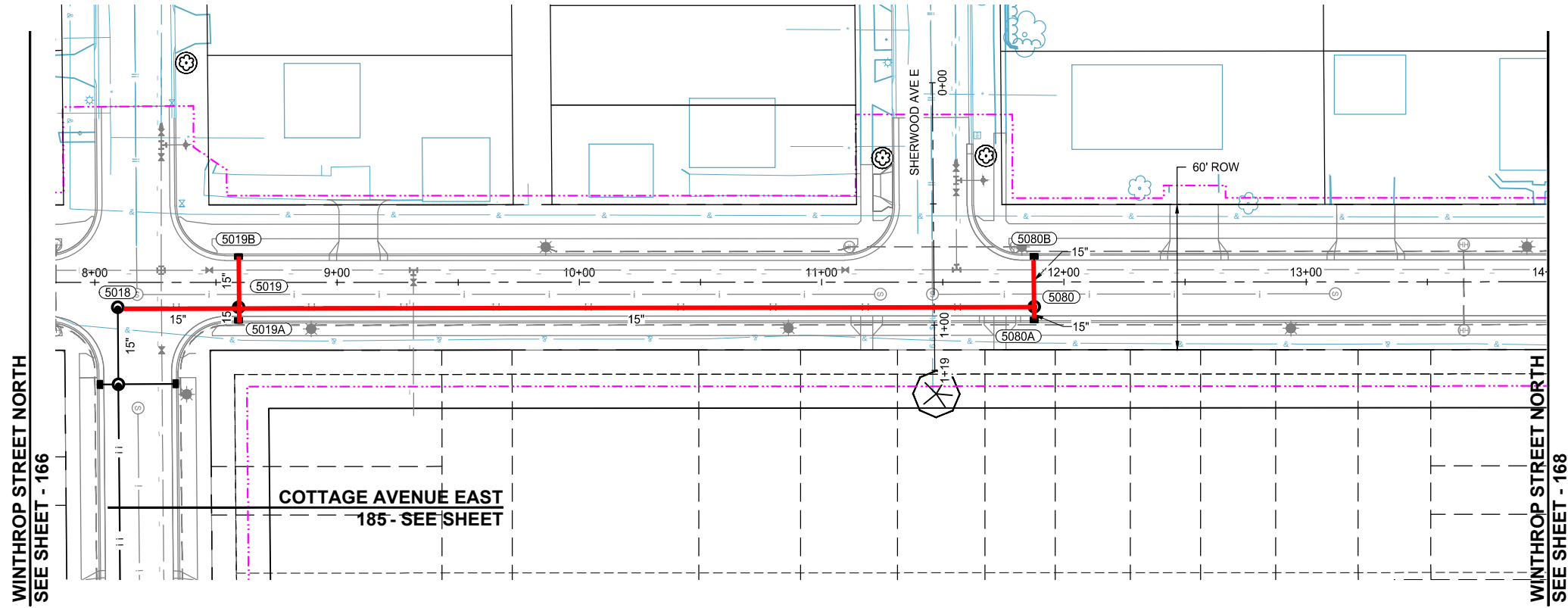
STORM SEWER CONSTRUCTION

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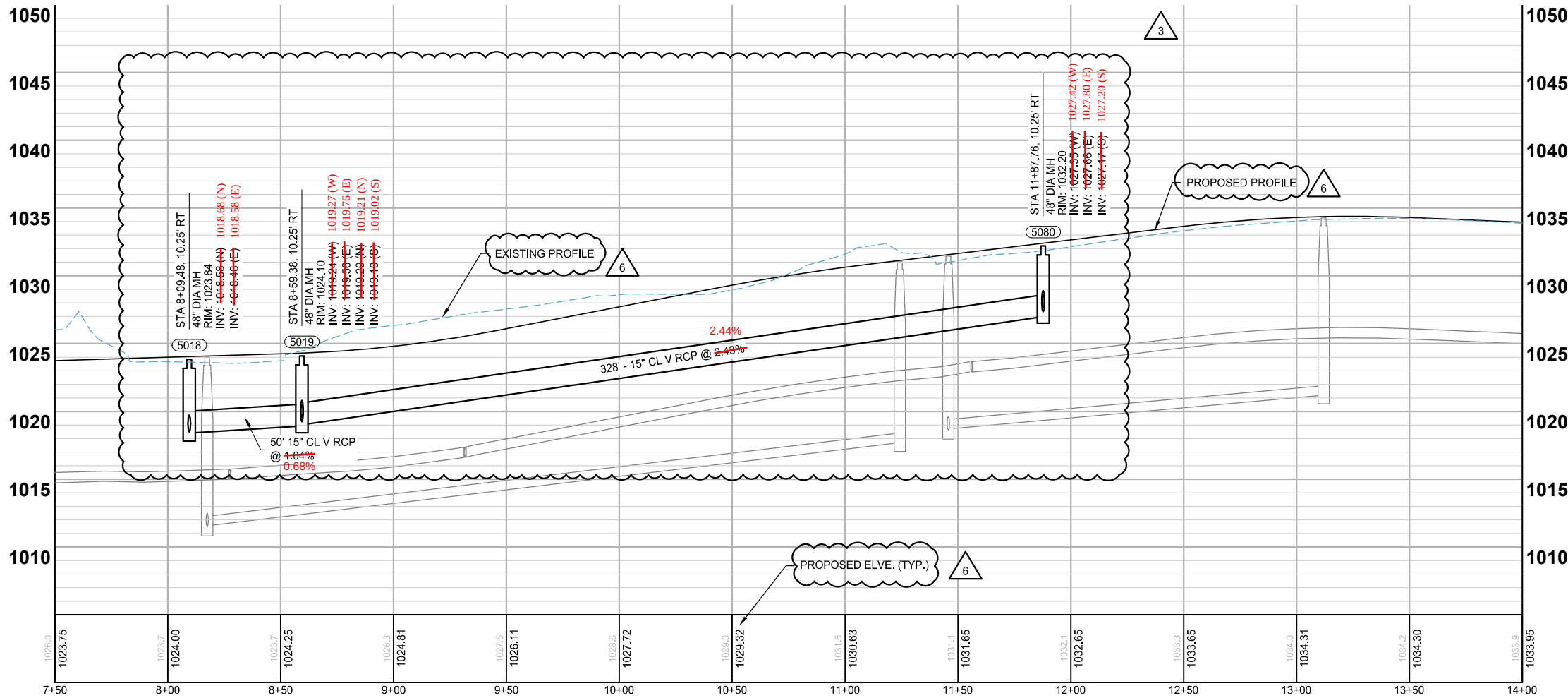
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PLAN BY: DEH
DESIGN BY: PJM
CHECK BY: PTH

REVISIONS			
NO.	DATE	DESCRIPTION	
3	03/15/2024	PLAN REVISIONS	
6	09/23/2024	100% PLAN COMMENTS	

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

WINTHROP STREET NORTH



- NOTES:
- SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
 - ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

LEGEND	
	CONSTRUCTION LIMITS
	PROPOSED CURB AND GUTTER
	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED SUBSURFACE DRAIN
	PROPOSED RIPRAP

STORM SEWER
CONSTRUCTION

INFRASTRUCTURE PLANS FOR:
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SAINT PAUL, MINNESOTA

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St Paul, Minnesota 55102
Phone 612-224-5686

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

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PAUL HORNBY, P.E.

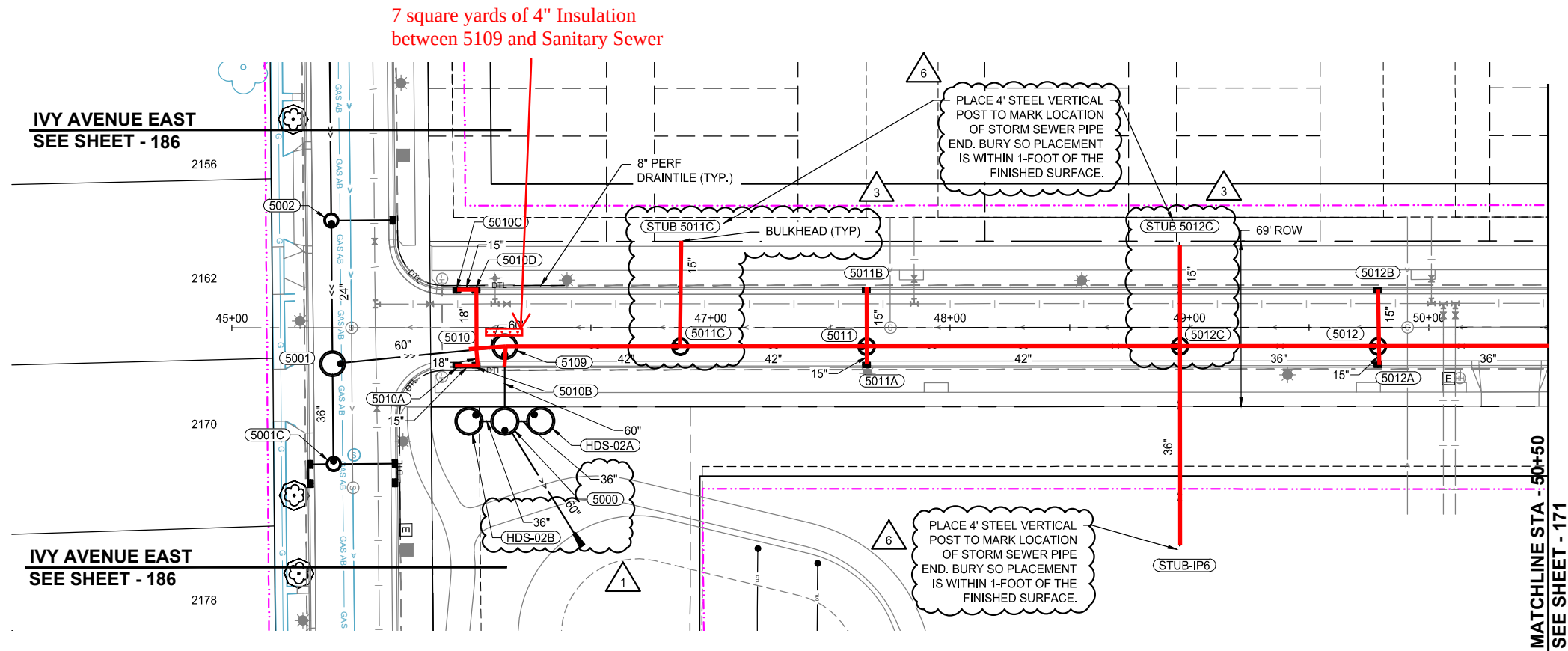
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STORM SEWER CONSTRUCTION

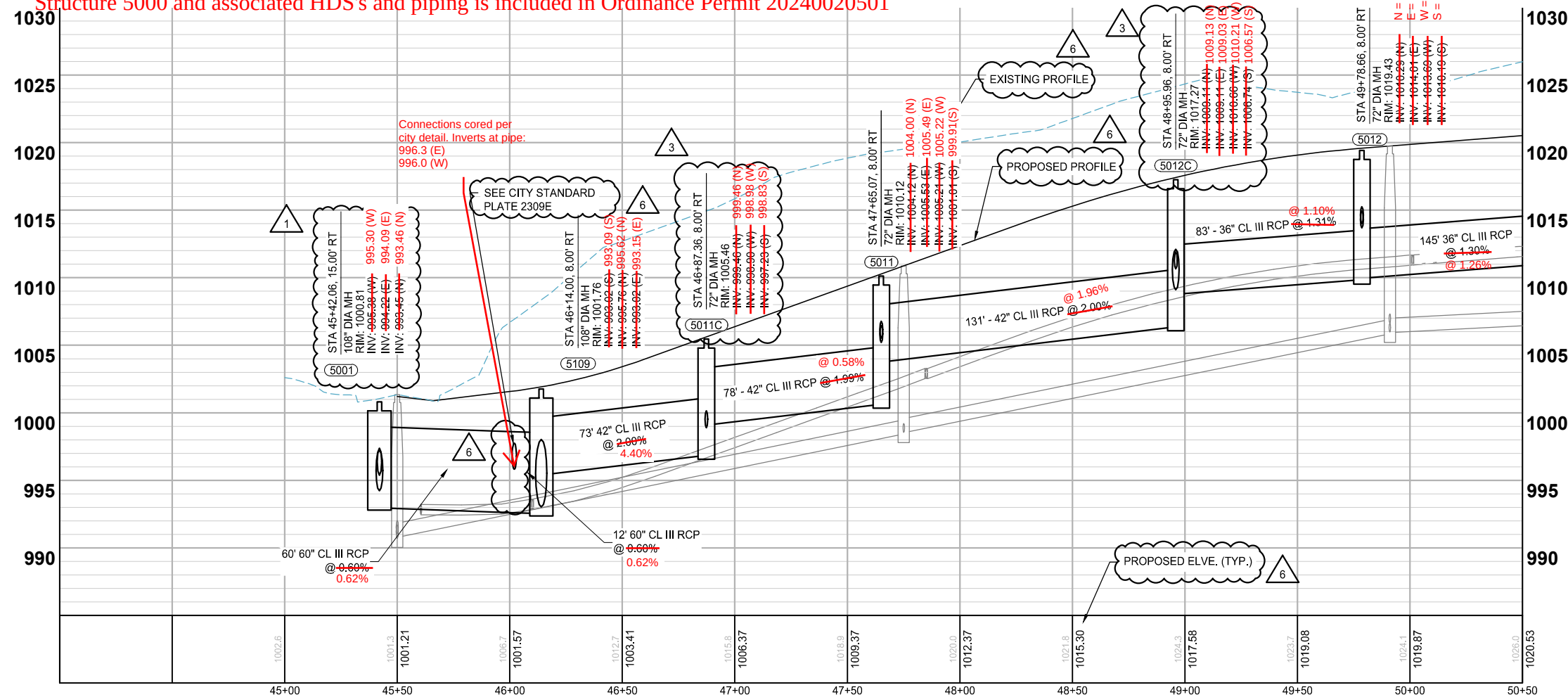
INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

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

WSB PROJECT NO.
013987-000



Notes: As-built documents 10 LF of 60" RCP south of 5009. Remaining 50 LF of 60" RCP included on Ordinance Permit 20240020402
Structure 5000 and associated HDS's and piping is included in Ordinance Permit 20240020501



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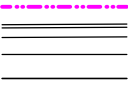
DATE 9-23-2025

ASHLEIGH K ROSA
LICENSE #: 59517

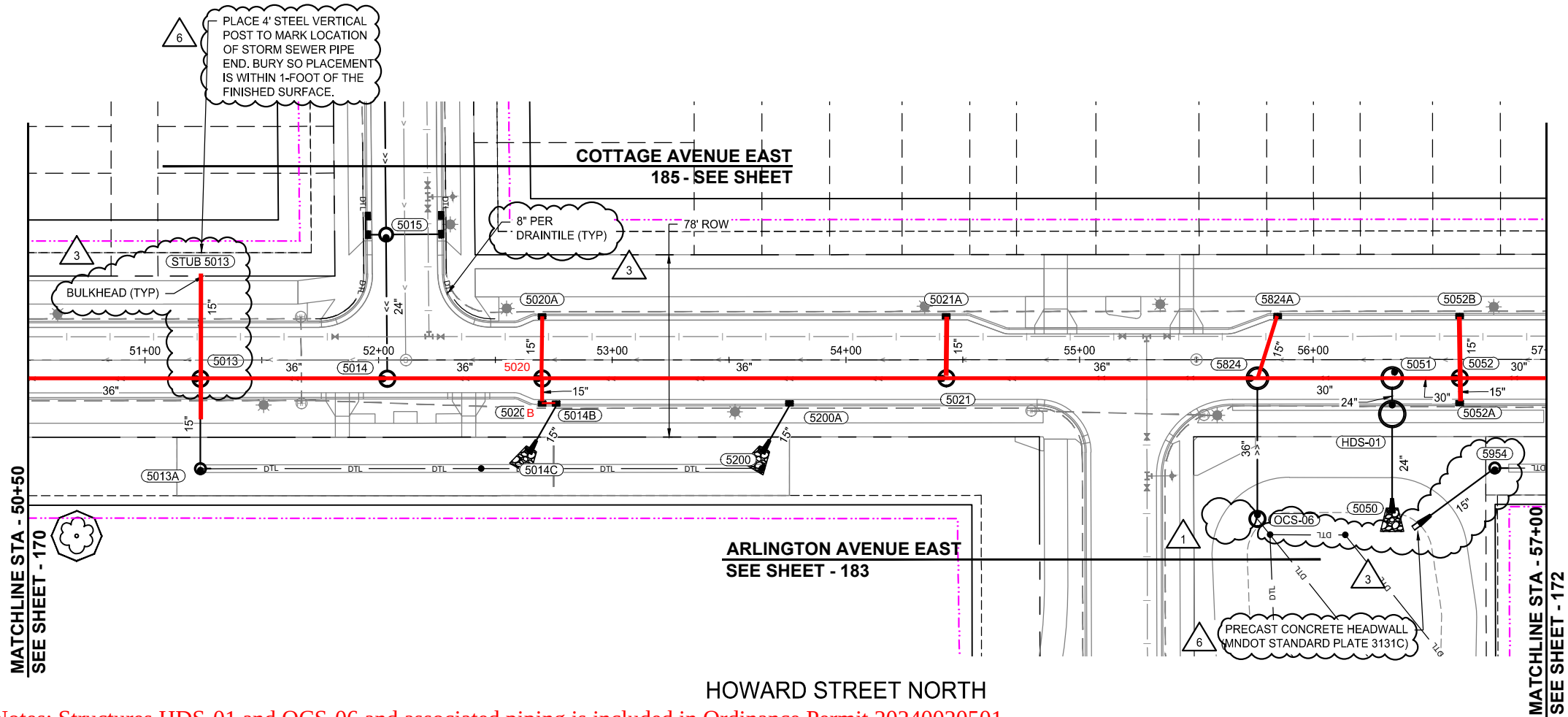
NOTES:

1. SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
2. ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

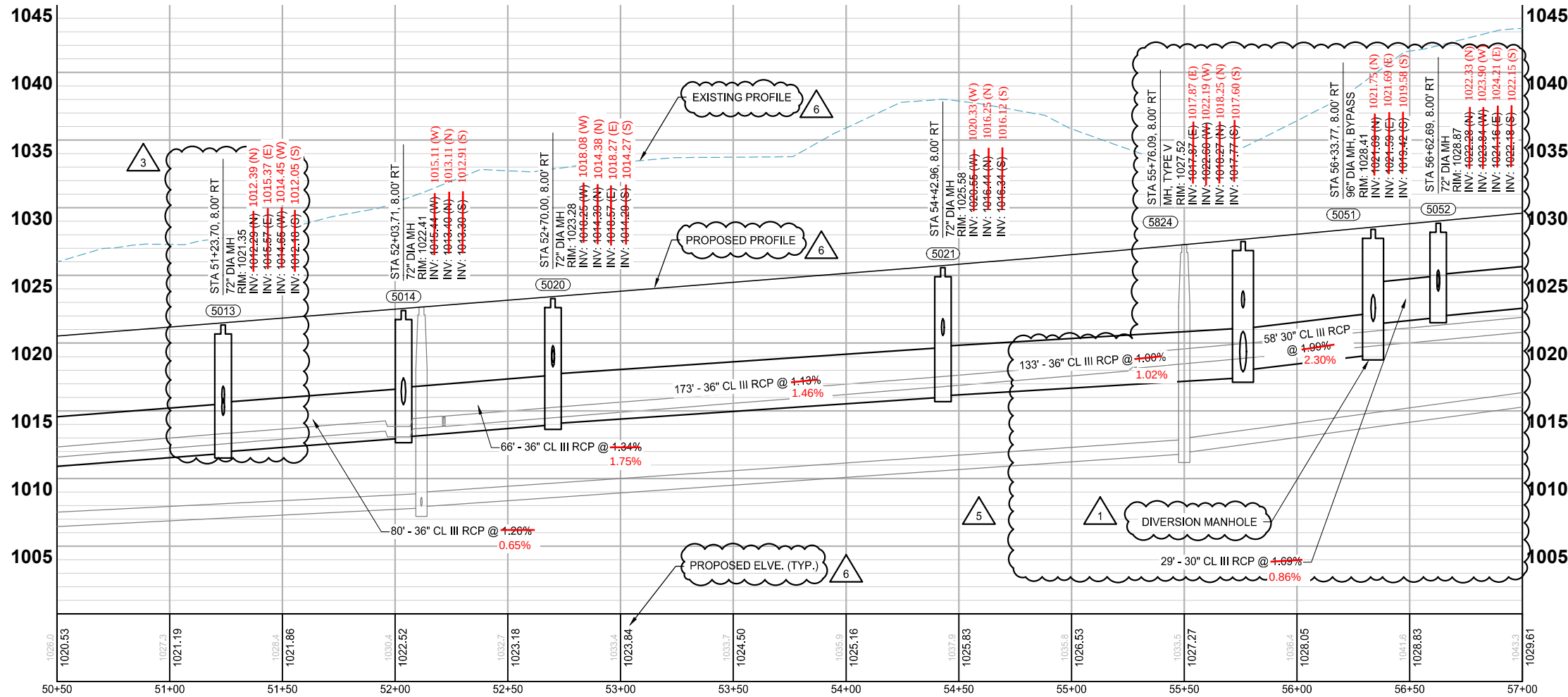
LEGEND

- | | |
|---|-----------------------------|
|  | CONSTRUCTION LIMITS |
| | PROPOSED CURB AND GUTTER |
| | PROPOSED BITUMINOUS (EDGE) |
| | PROPOSED CONCRETE (EDGE) |
| | PROPOSED GRAVEL (EDGE) |
| | EXISTING STORM SEWER PIPE |
| | EXISTING STORM STRUCTURE |
| | PROPOSED STORM SEWER PIPE |
| | PROPOSED DRAINAGE STRUCTURE |
| | PROPOSED SUBSURFACE DRAIN |
| | PROPOSED RIPRAP |

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Notes: Structures HDS-01 and OCS-06 and associated piping is included in Ordinance Permit 20240020501



LEGEND

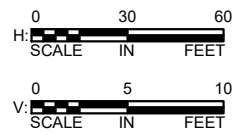
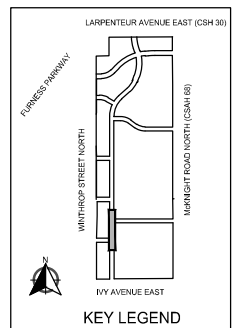
- CONSTRUCTION LIMITS
- PROPOSED CURB AND GUTTER
- PROPOSED BITUMINOUS (EDGE)
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- NOTES:
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ASHLEIGH K. ROSA
LICENSE #: 59517



REVISIONS					
NO.	DATE	DESCRIPTION	ADDENDUM NO.	PLAN REVISIONS	REVISION 5
1	01/30/2024				
3	03/29/2024				
5	06/26/2024				
6	09/23/2024				

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PAUL HORNBY, P.E.
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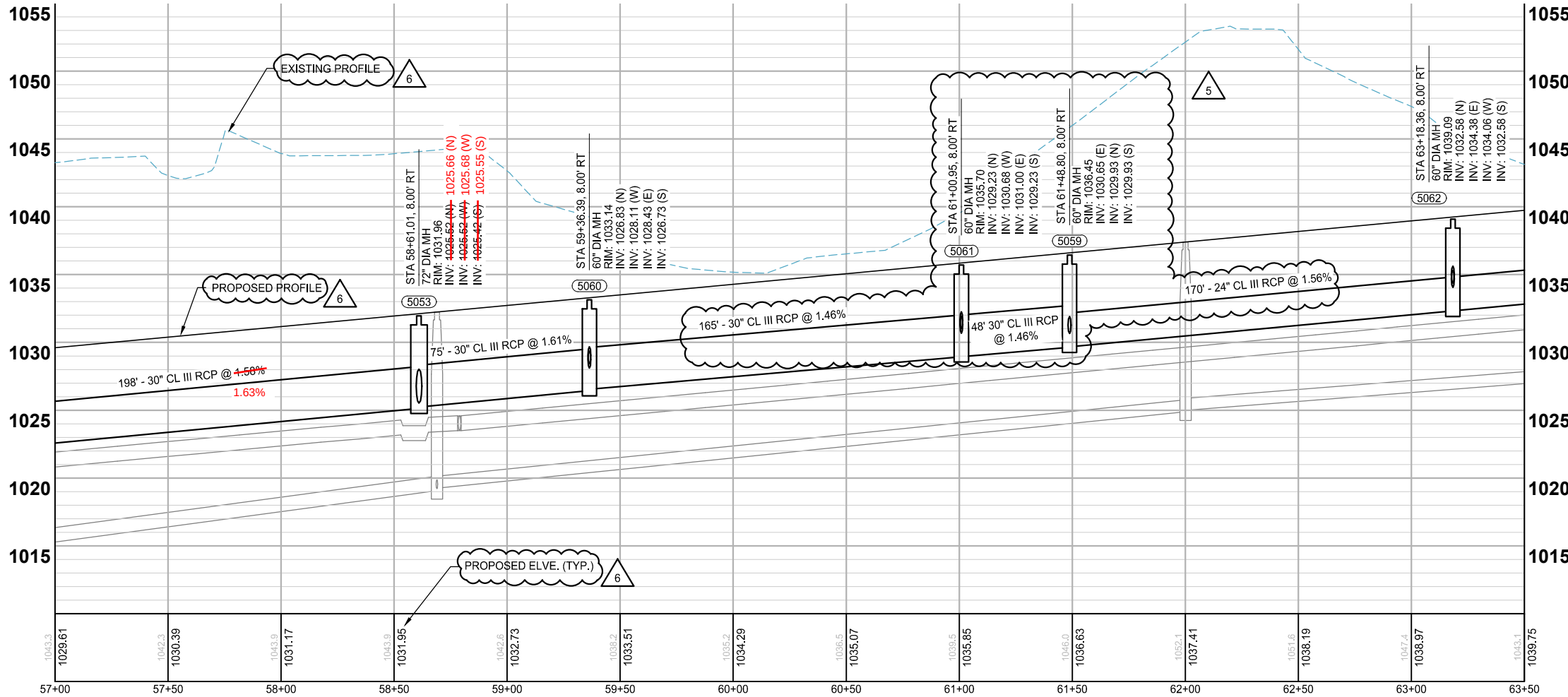
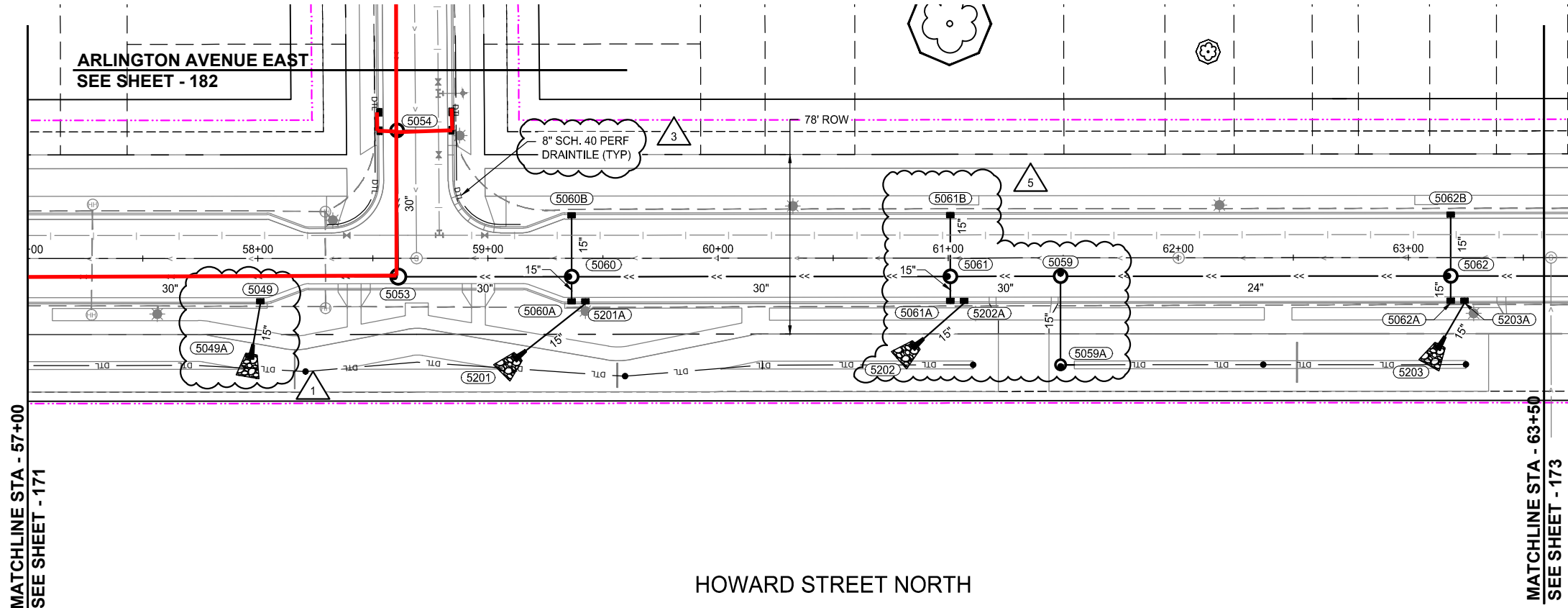
STORM SEWER CONSTRUCTION

INFRASTRUCTURE PLANS FOR:
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SAINT PAUL, MINNESOTA

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400 Wabasha Street North
Suite 240
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WSB PROJECT NO.
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NOTES:

1. SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.

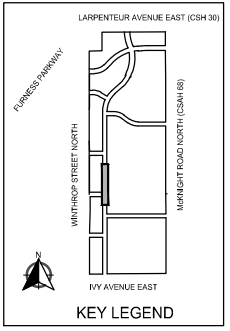
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- LEGEND
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9-23-2025
DATE

ASHLEIGH K ROSA
LICENSE #: 59517



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

REVISIONS		ADDENDUM NO. 1	
NO.	DATE	DESCRIPTION	PLAN REVISIONS
1	01/30/2024		PLAN REVISIONS
3	03/29/2024		REVISION 5
5	06/26/2024		100% PLAN COMMENTS
6	09/23/2024		

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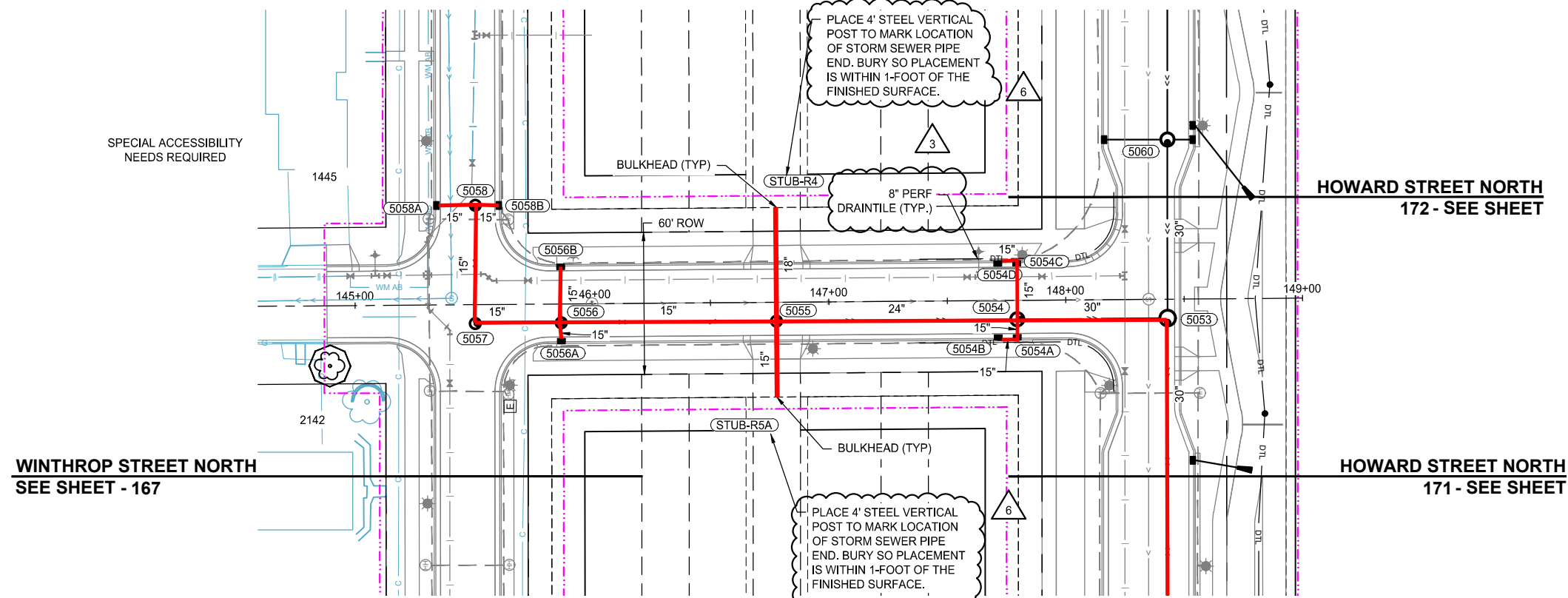
STORM SEWER
CONSTRUCTION

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

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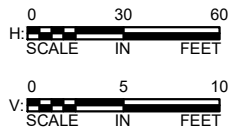
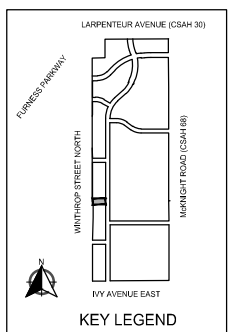


WINTHROP STREET NORTH
SEE SHEET - 167

HOWARD STREET NORTH
172 - SEE SHEET

HOWARD STREET NORTH
171 - SEE SHEET

ARLINGTON AVENUE EAST



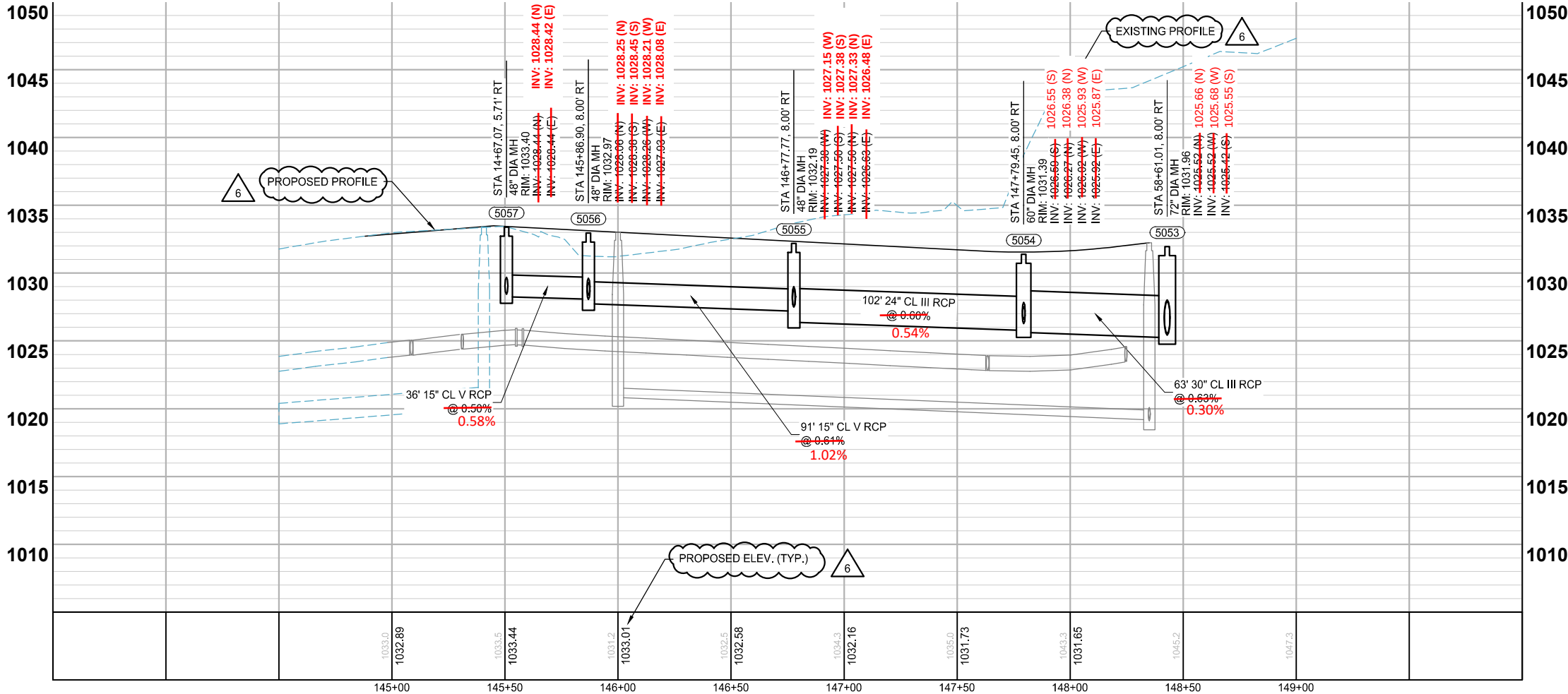
I HEREBY CERTIFY THAT THIS RECORD DRAWING HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. THIS DRAWING HAS BEEN PREPARED IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED 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.

DATE: 9-23-2025

ASHLEIGH K ROSA
LICENSE #: 59517

- NOTES:
- SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
 - ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

- LEGEND
- CONSTRUCTION LIMITS
 - PROPOSED CURB AND GUTTER
 - PROPOSED BITUMINOUS (EDGE)
 - PROPOSED CONCRETE (EDGE)
 - PROPOSED GRAVEL (EDGE)
 - EXISTING STORM SEWER PIPE
 - EXISTING STORM STRUCTURE
 - PROPOSED STORM SEWER PIPE
 - PROPOSED DRAINAGE STRUCTURE
 - PROPOSED SUBSURFACE DRAIN
 - PROPOSED RIPRAP



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

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

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.

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

PAUL HORNBY, P.E.

STORM SEWER
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

K:\013987-000\CadPlan\SUBMITTAL\013987-000-C-STRM-PLAN-XING.dwg 10/16/2024 4:10:10 PM

NOTE: SEWER PROFILES CROSSED OUT
ARE ACCOUNTED FOR IN DIFFERNT
ORDINANCE PERMIT

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ASHLEIGH K ROSA
LICENSE #: 59517

9-23-2025

DATE

wsb

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PAUL HORNBY, P.E.

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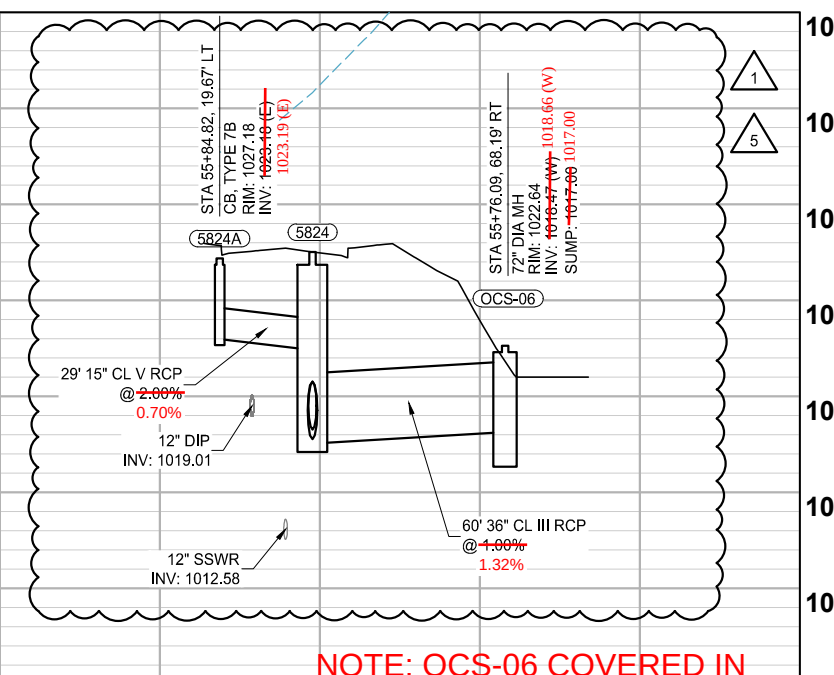
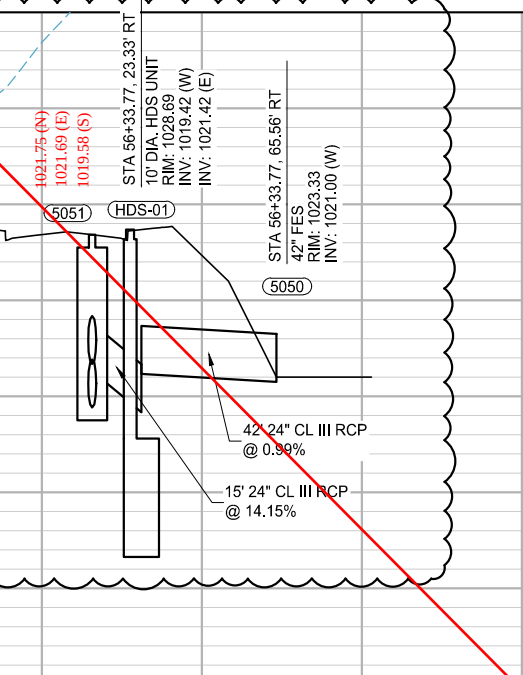
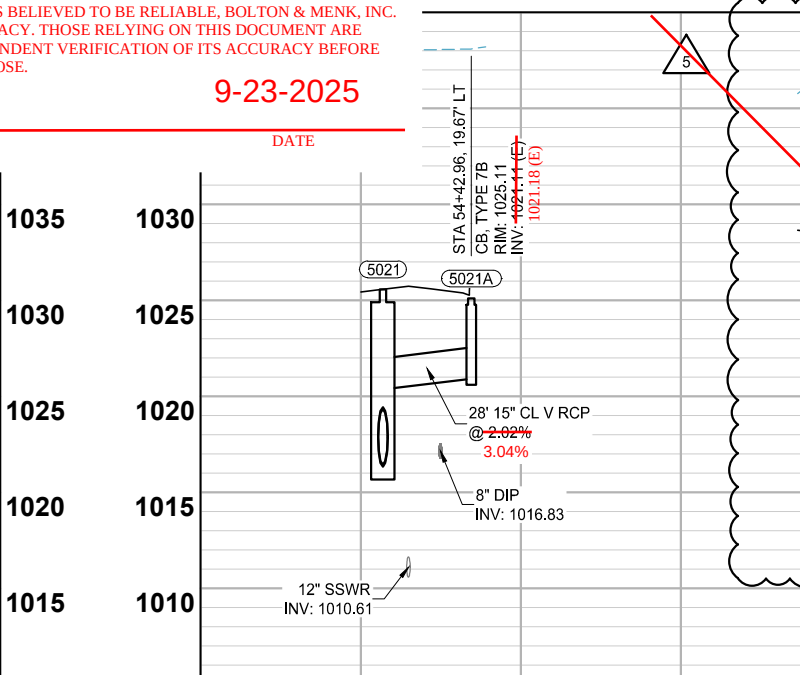
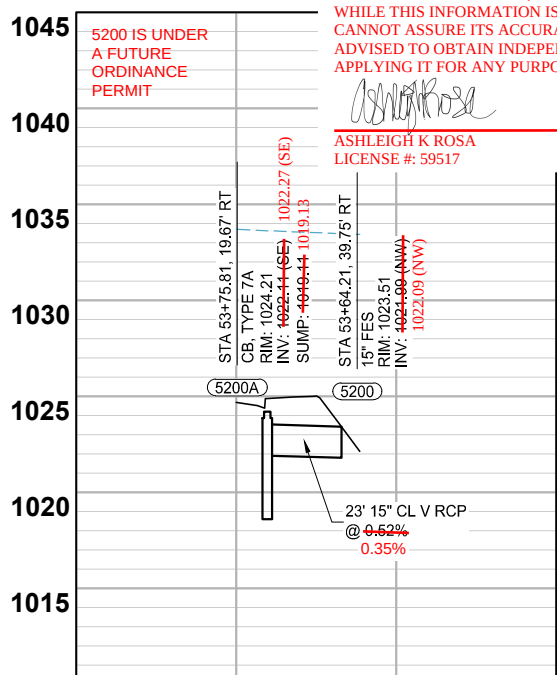
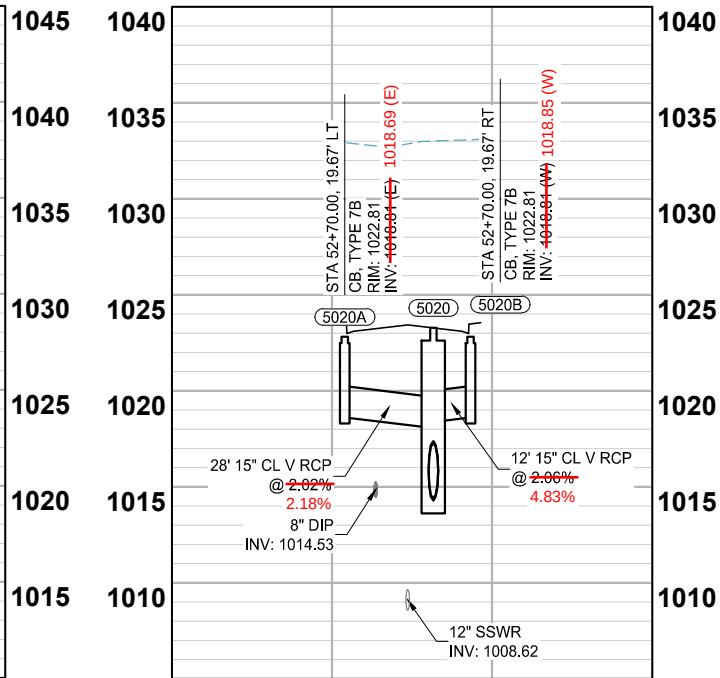
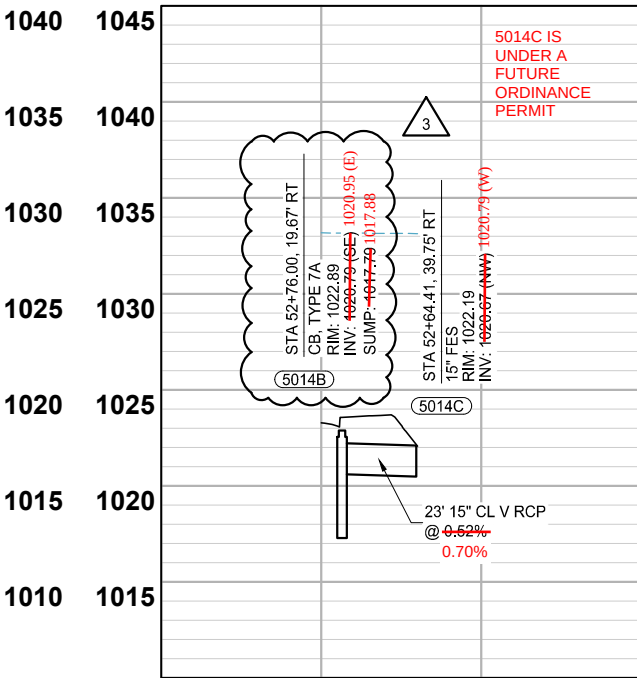
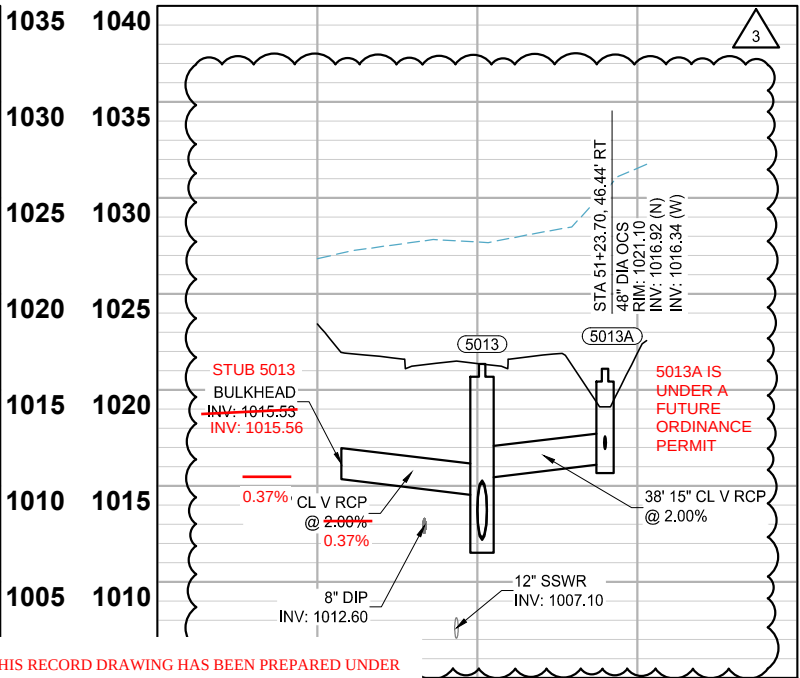
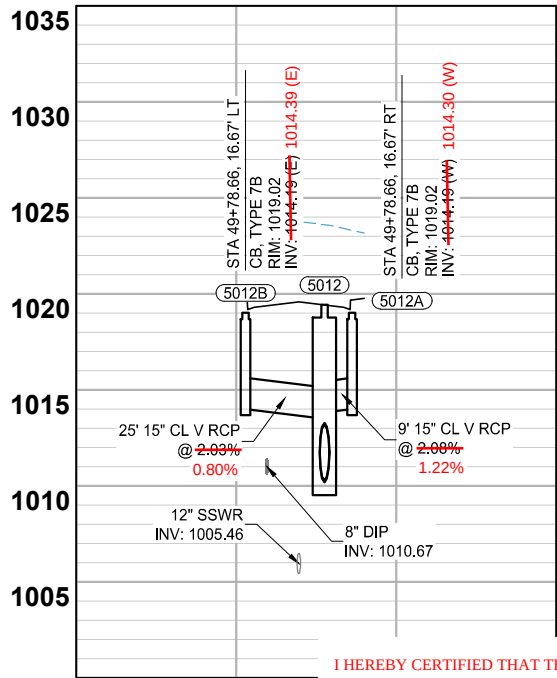
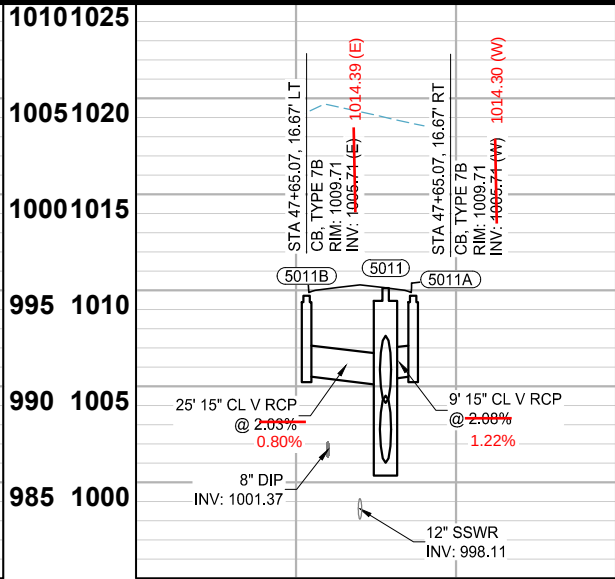
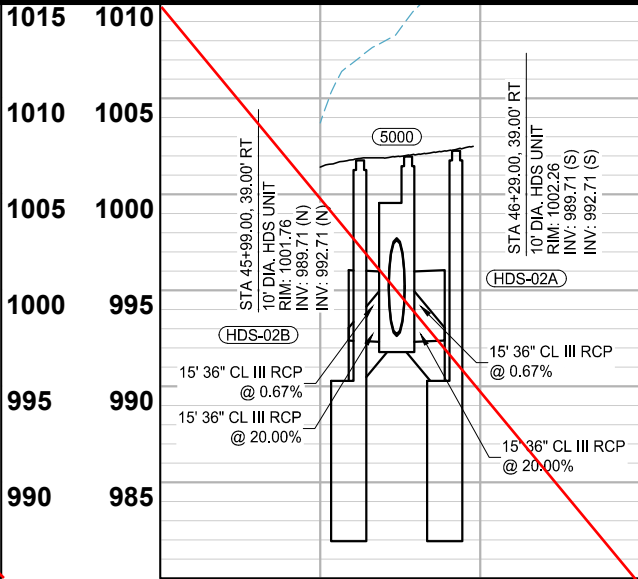
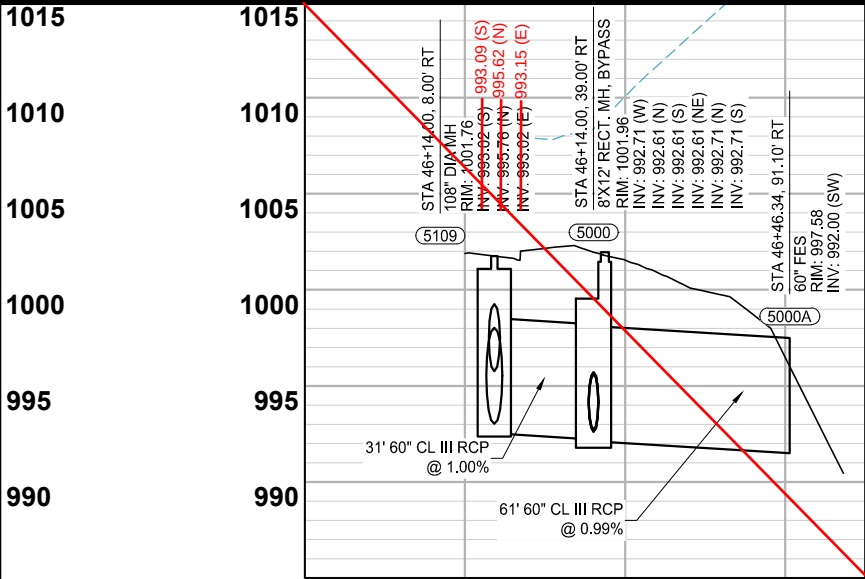
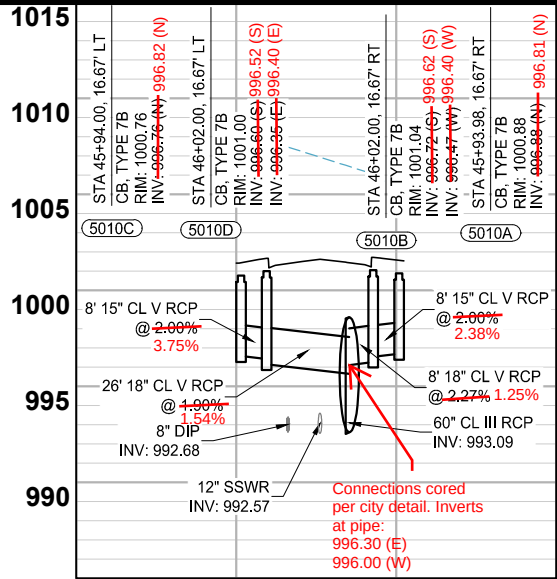
STORM SEWER
CONSTRUCTION

INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

Saint Paul
Port Authority
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St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
013987-000

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NOTE: OCS-06 COVERED IN
ORDINANCE PERMIT 20240020501



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

REVISIONS

NO.	DATE	DESCRIPTION
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5	06/26/2024	REVISION 5

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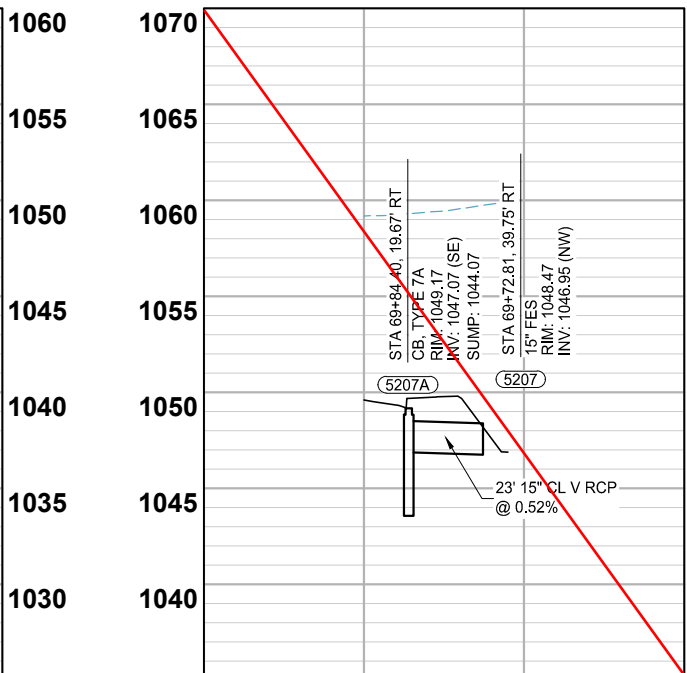
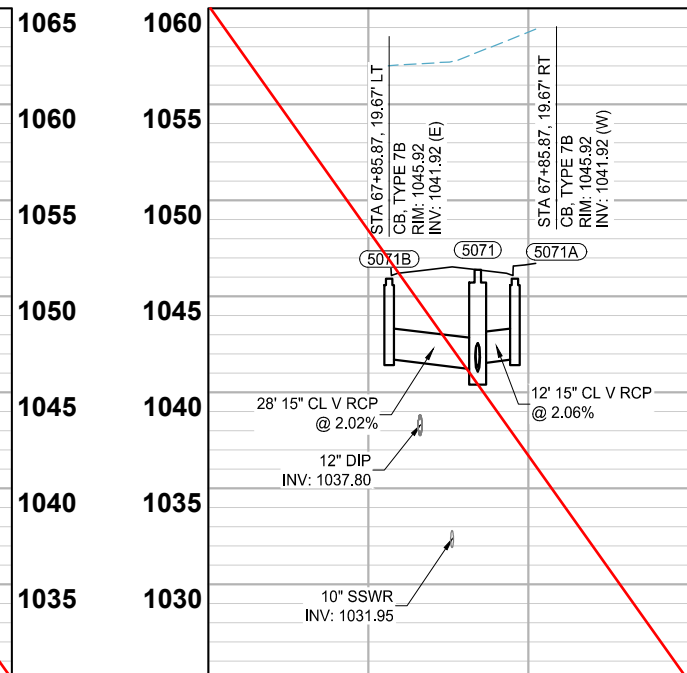
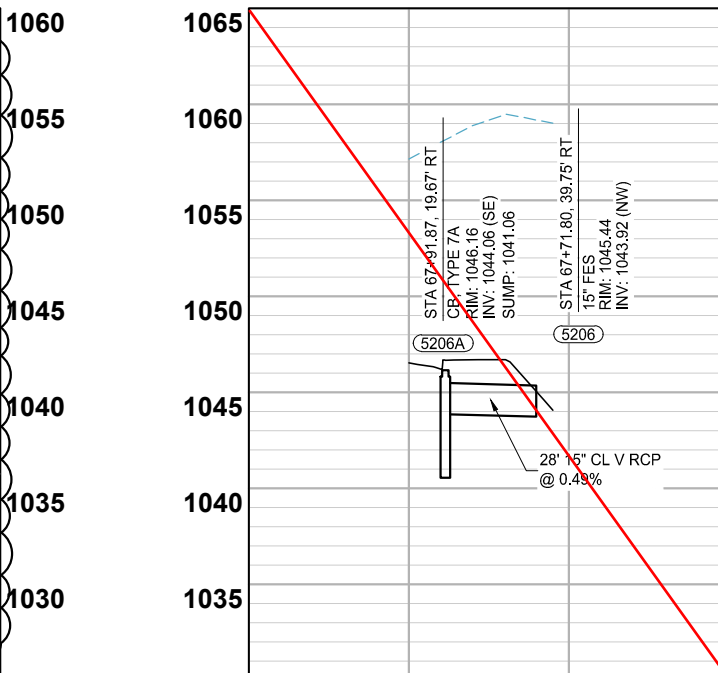
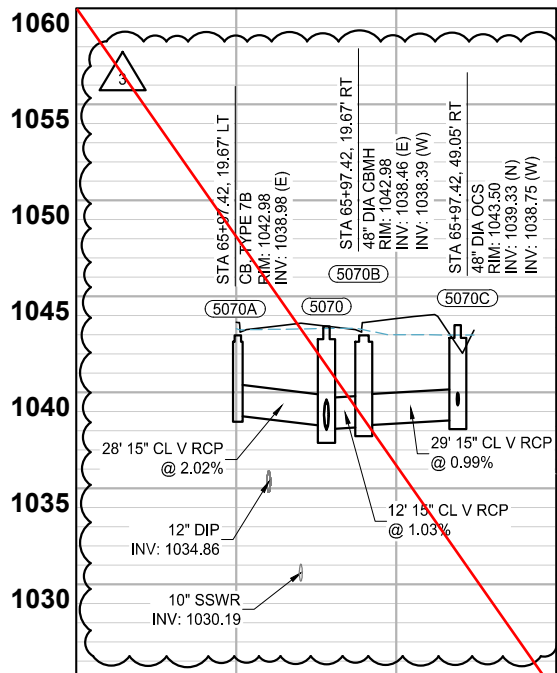
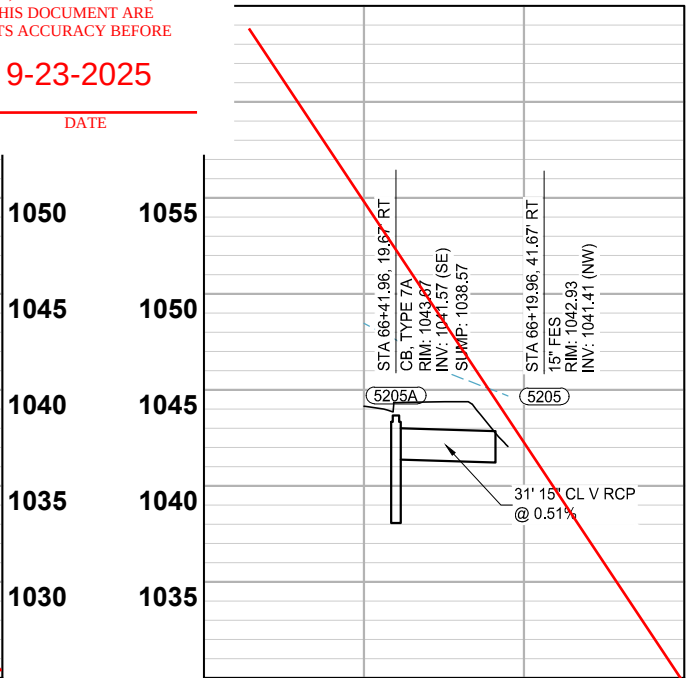
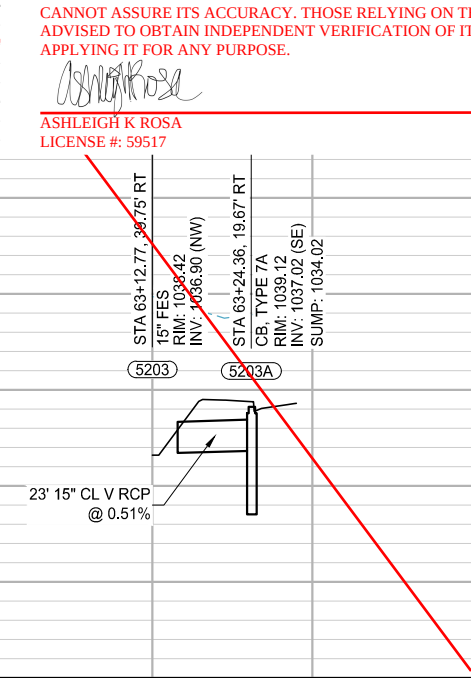
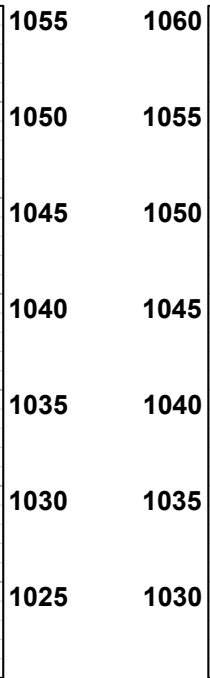
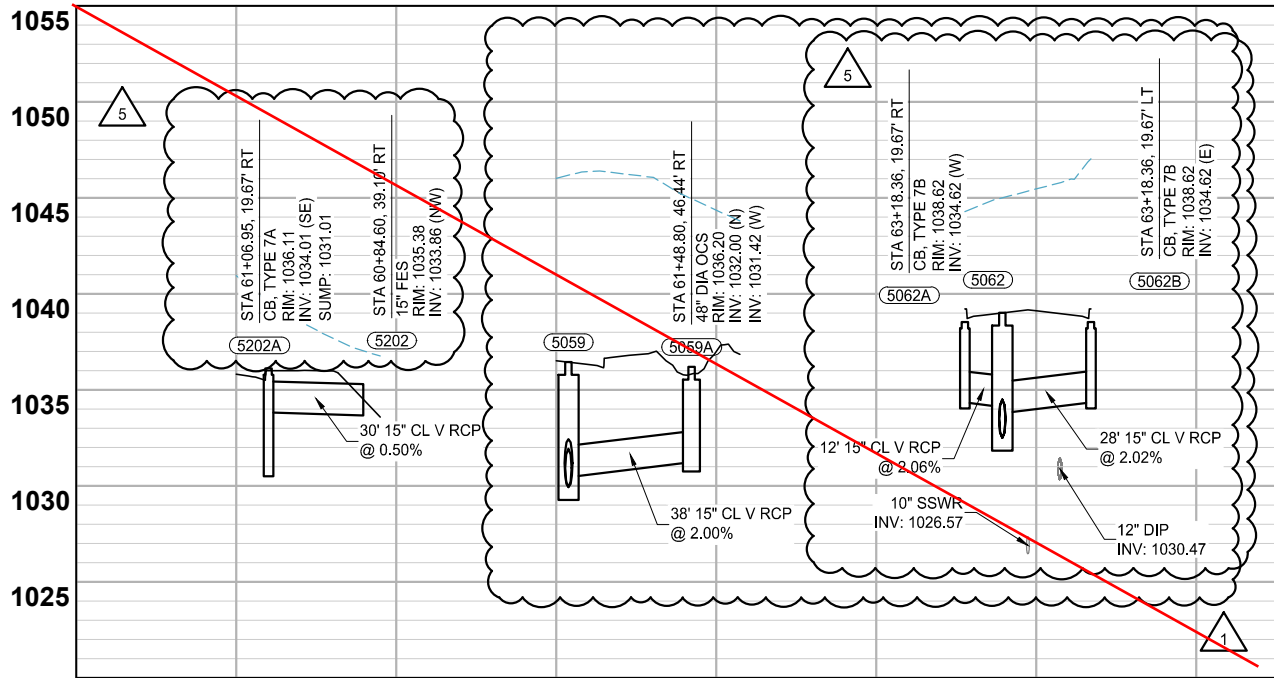
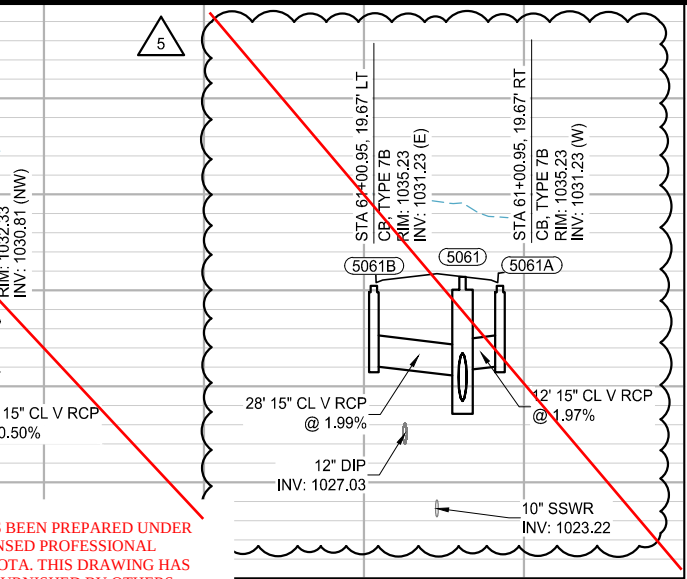
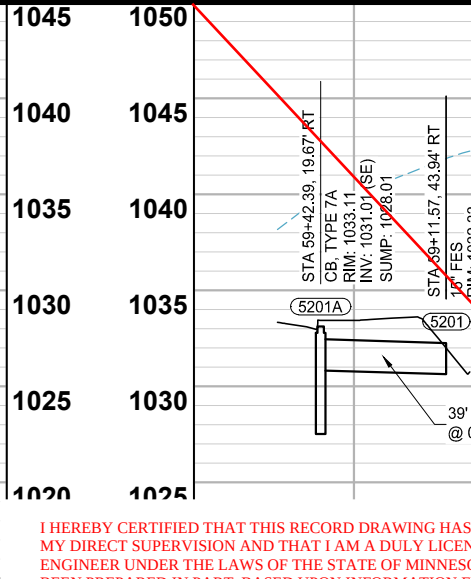
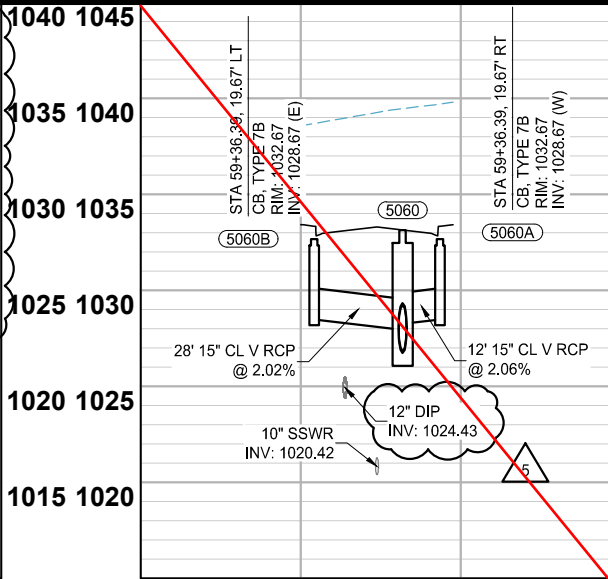
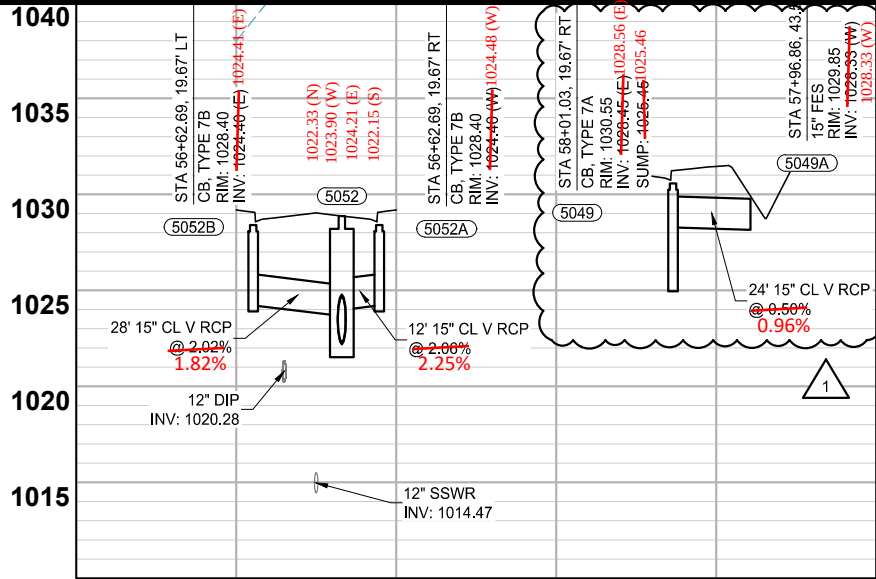
PAUL HORNBY, P.E.
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STORM SEWER CONSTRUCTION

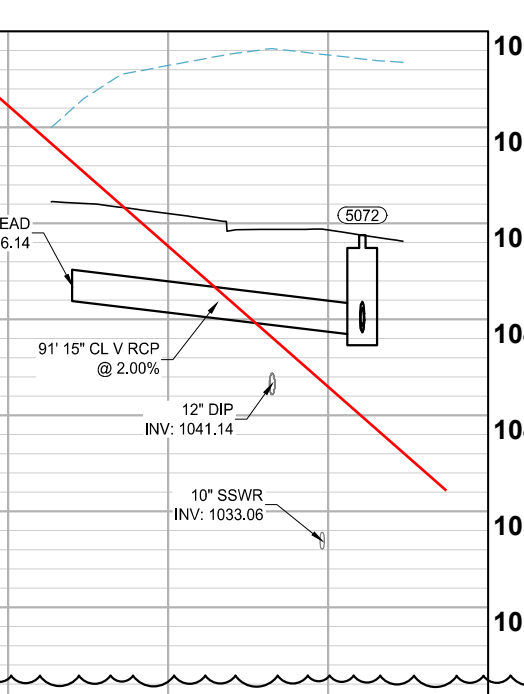
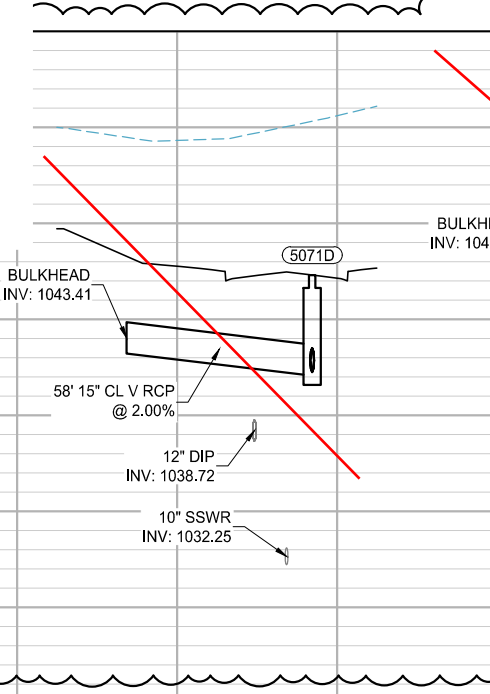
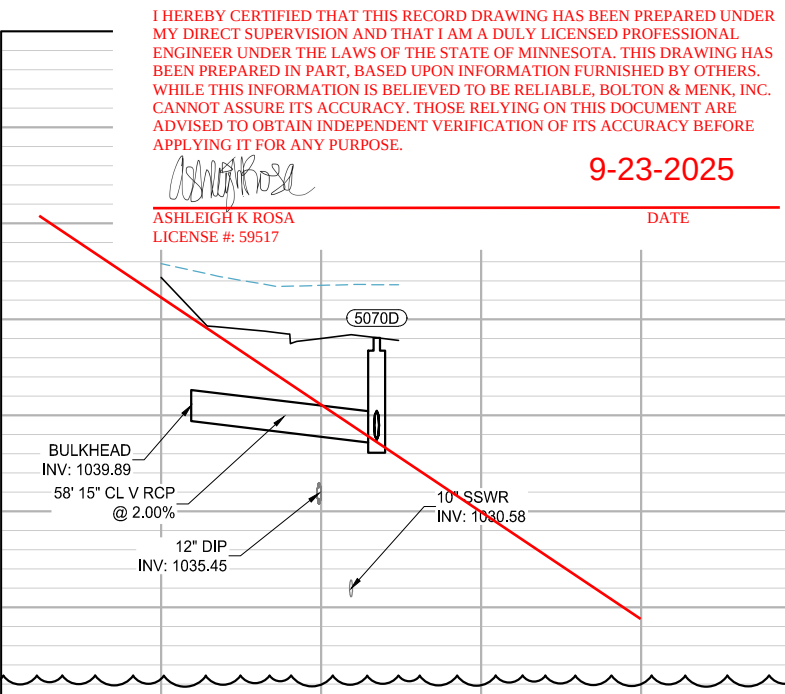
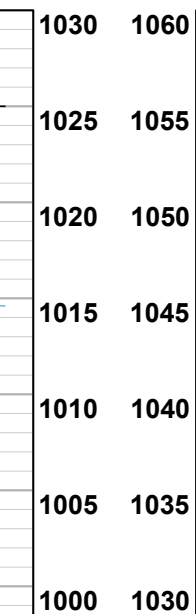
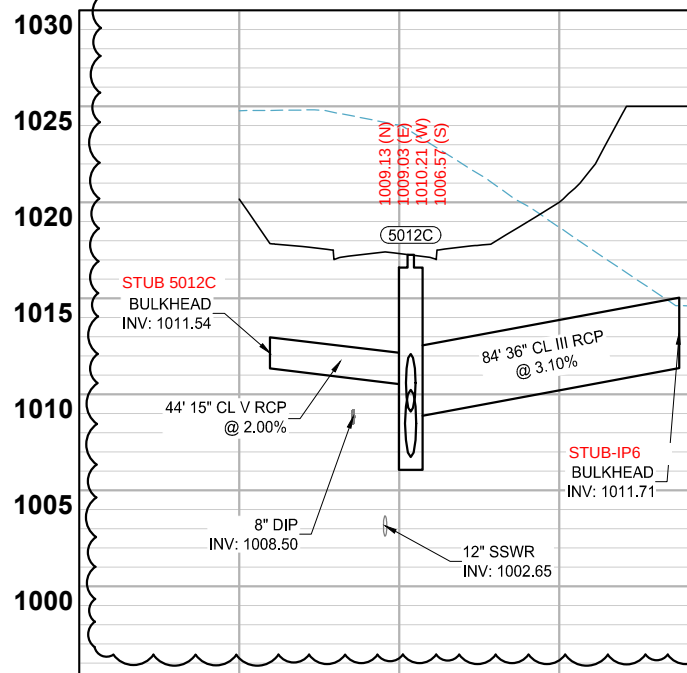
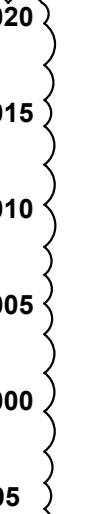
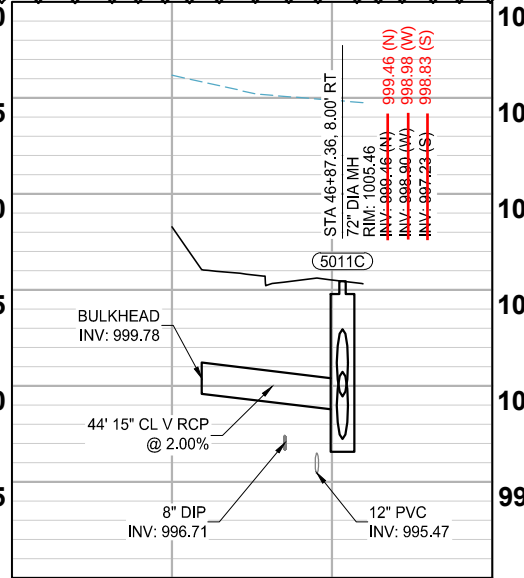
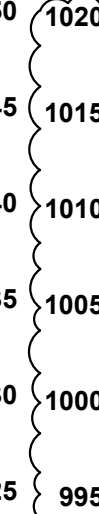
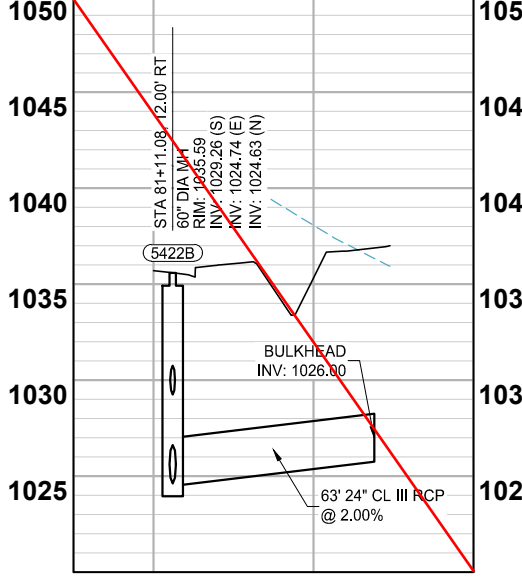
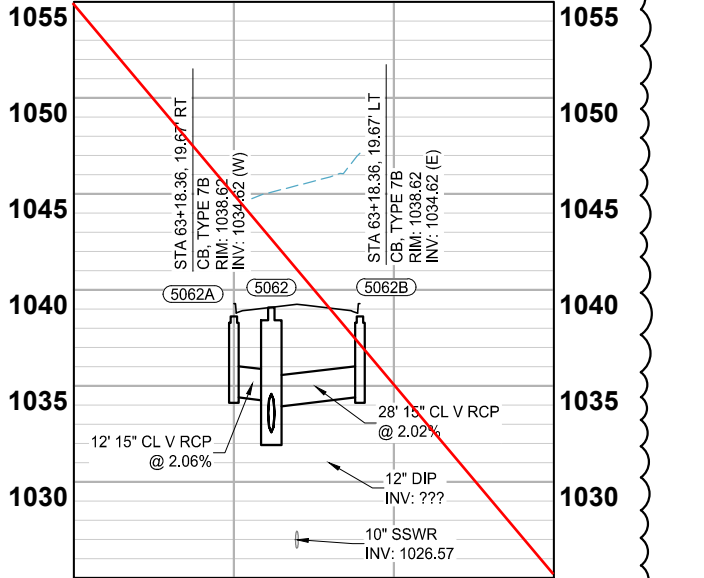
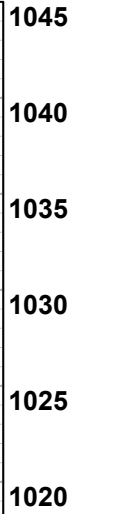
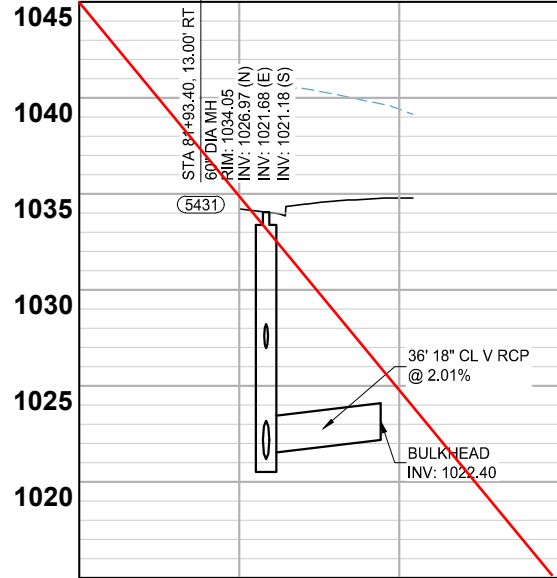
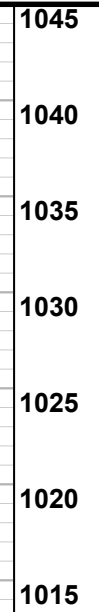
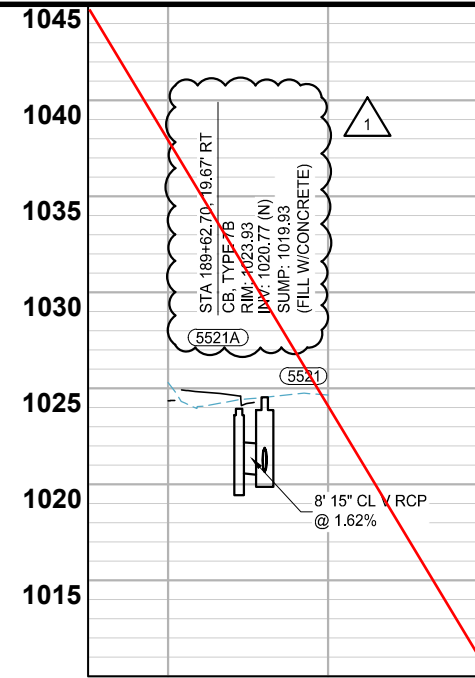
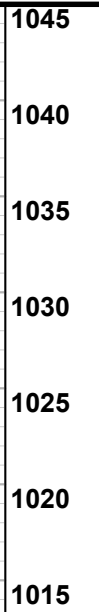
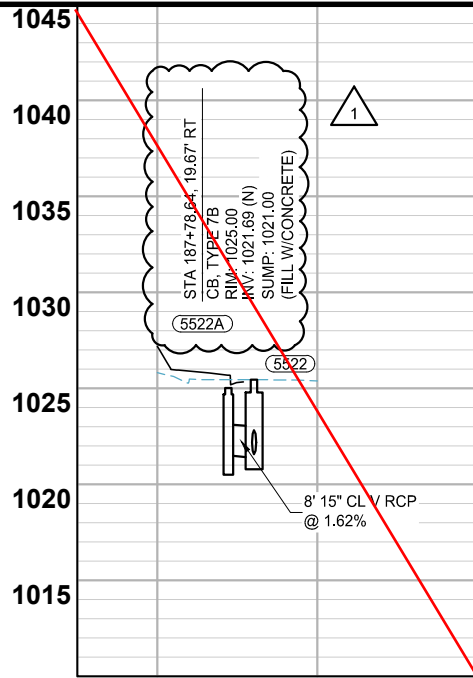
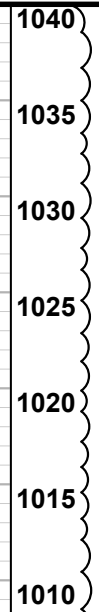
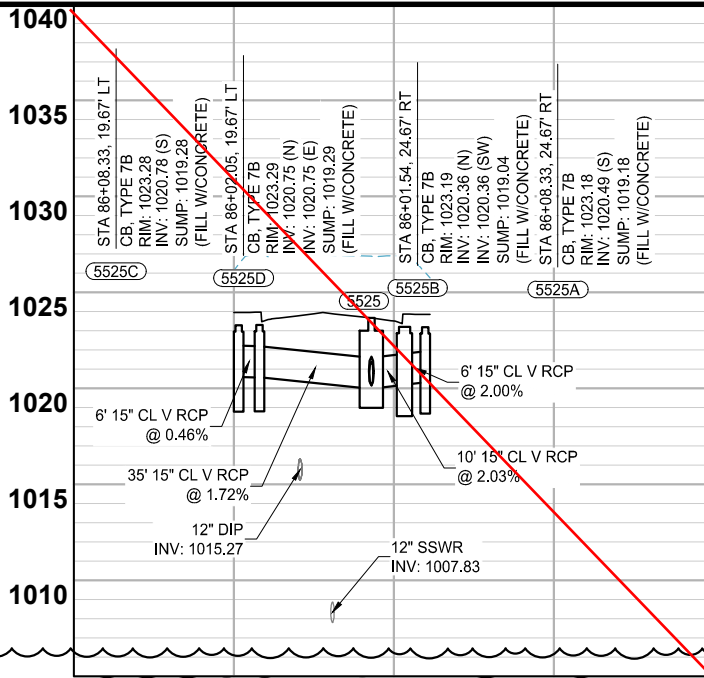
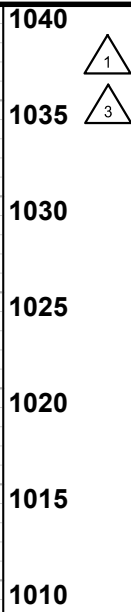
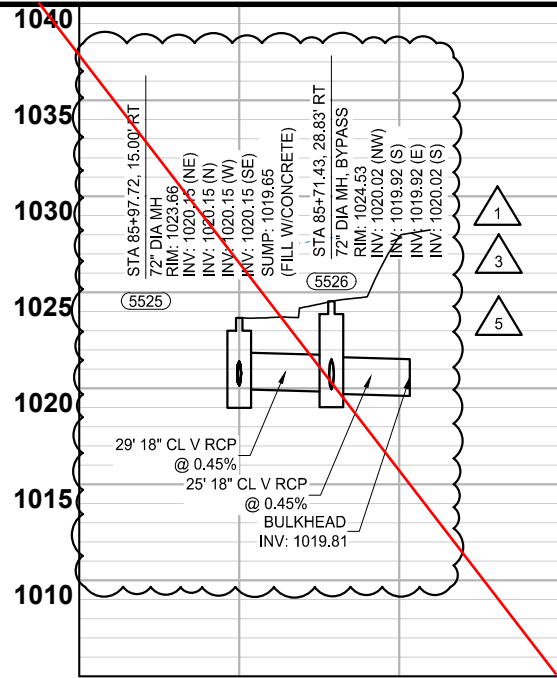
INFRASTRUCTURE PLANS FOR:
THE HEIGHTS
SAINT PAUL, MINNESOTA

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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Ashleigh K Rosa
ASHLEIGH K ROSA
LICENSE #: 59517
9-23-2025
DATE

wsb

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

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PAUL HORNBY, P.E.
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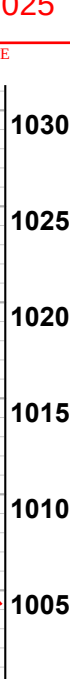
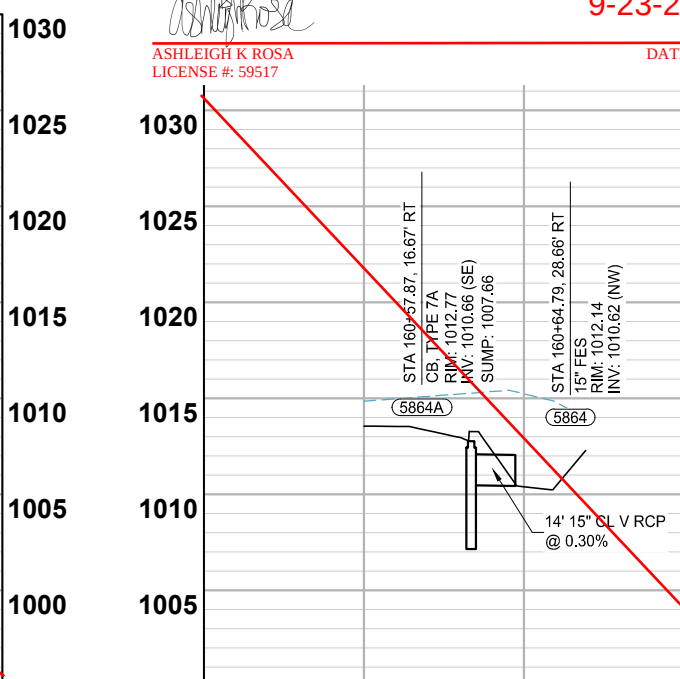
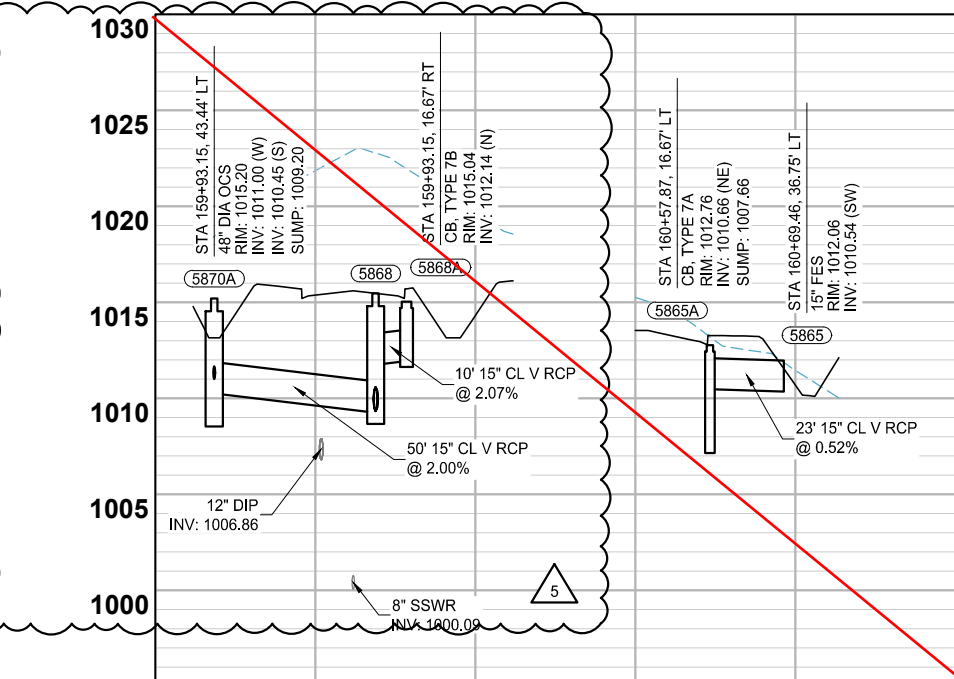
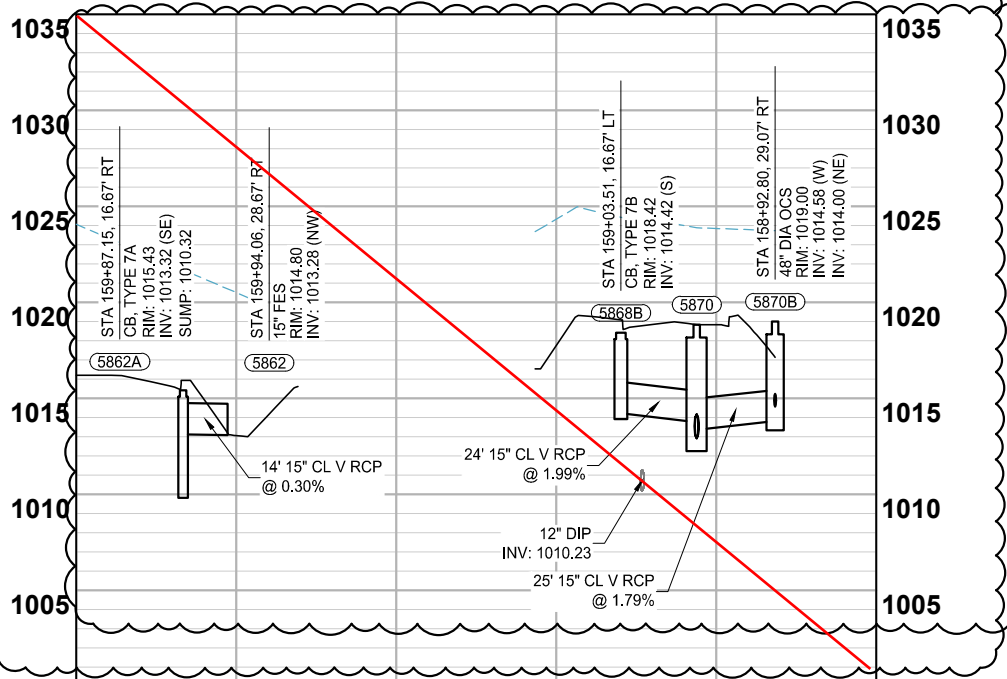
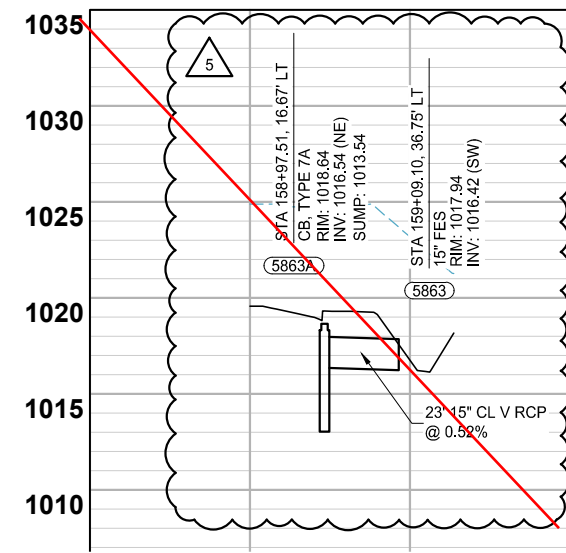
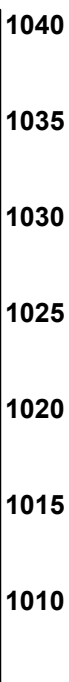
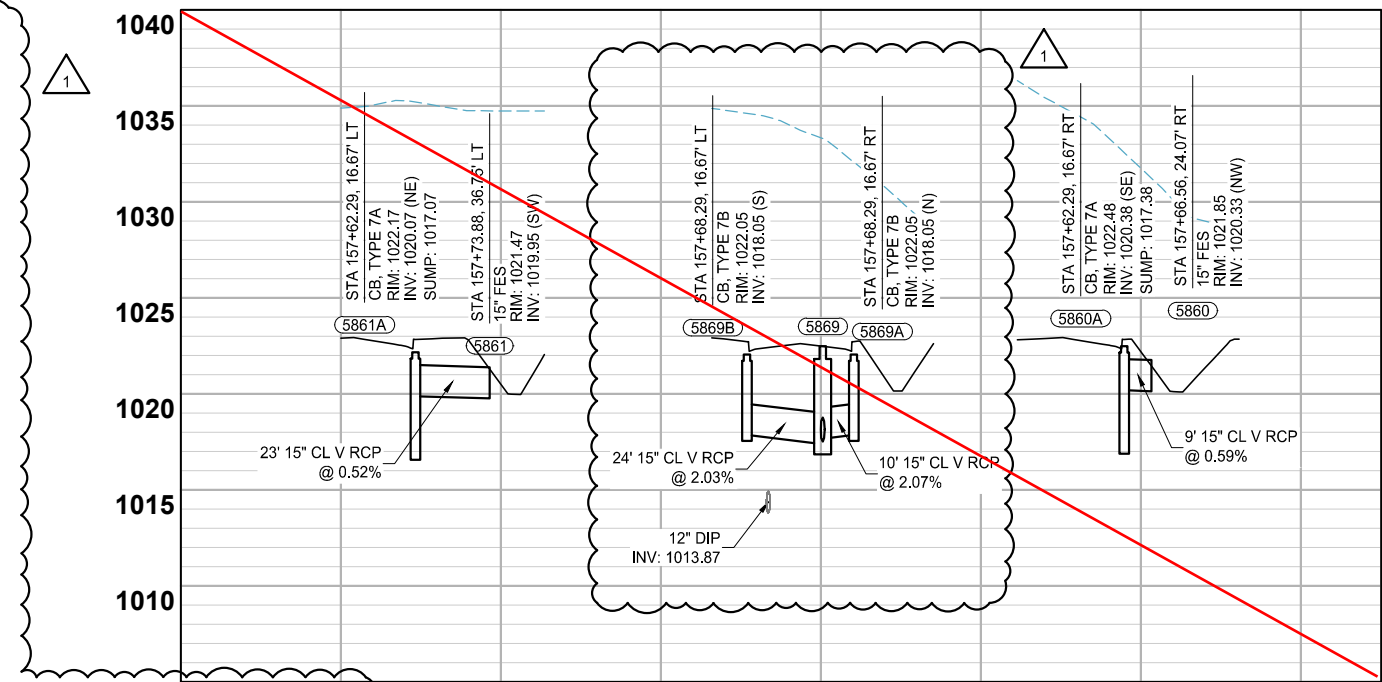
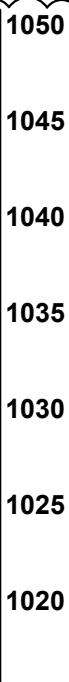
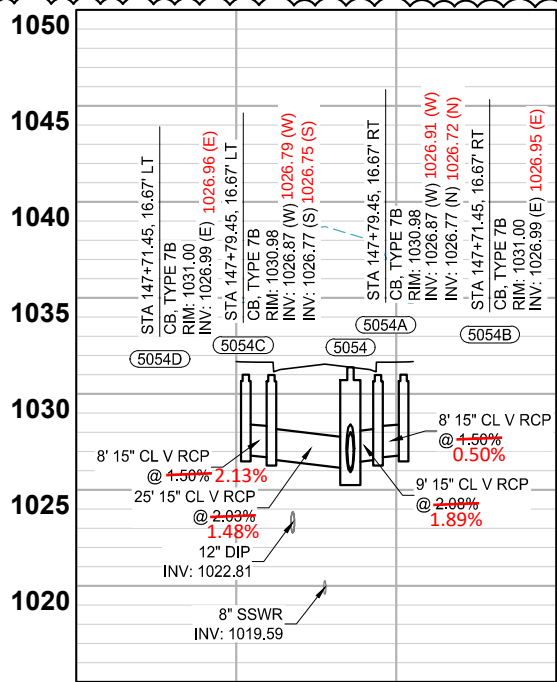
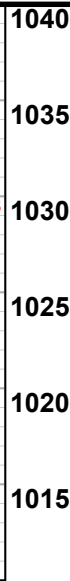
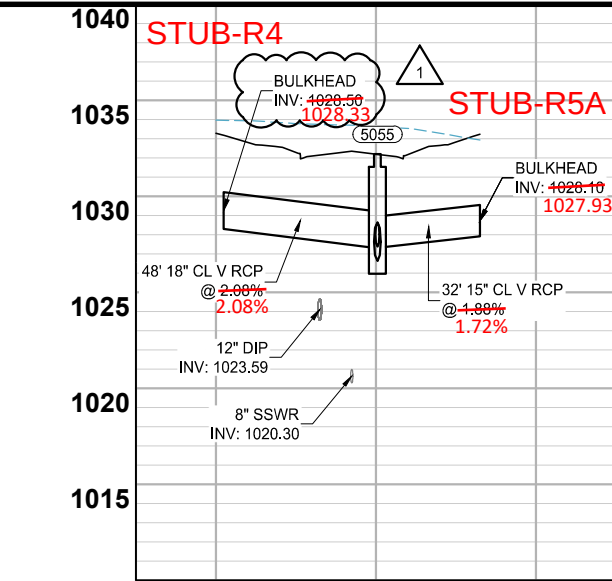
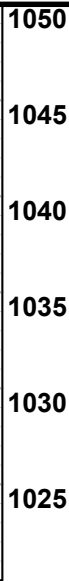
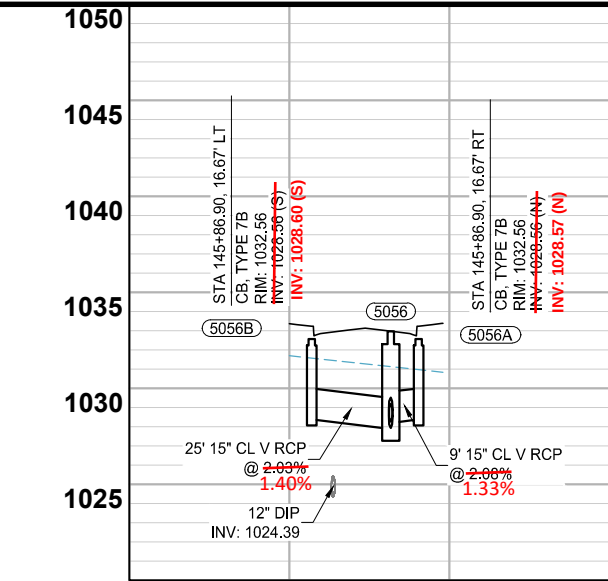
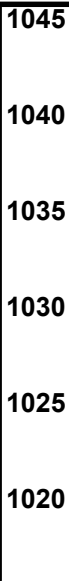
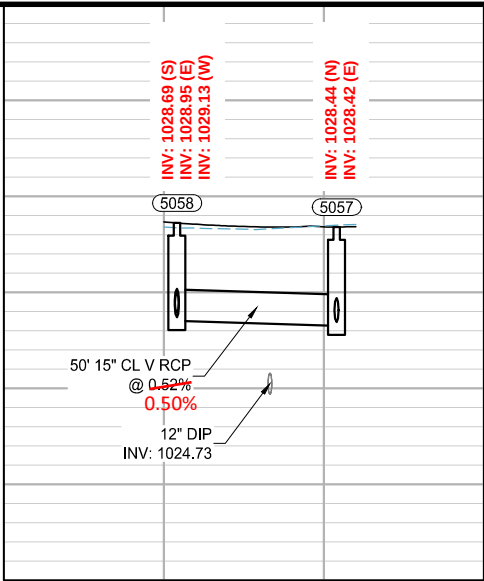
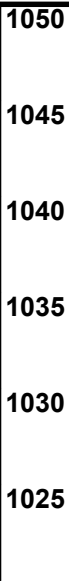
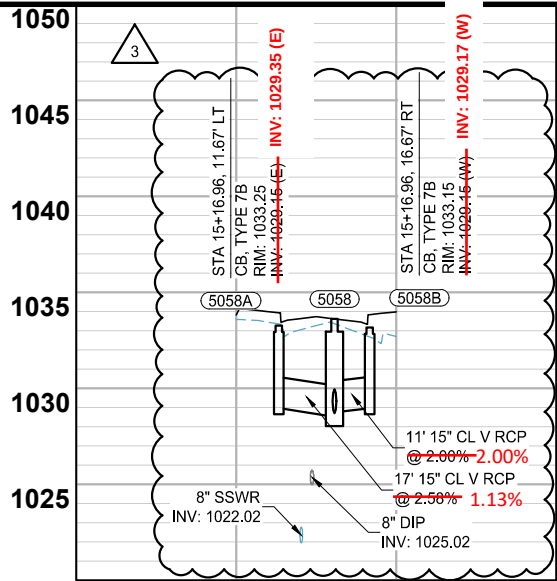
STORM SEWER CONSTRUCTION

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WSB PROJECT NO.
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ASHLEIGH K ROSA
LICENSE #: 59517

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DATE

wsb

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

REVISIONS		NO.	DATE	DESCRIPTION
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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. <u>7</u> Application Date <u>7/2/2024</u> SPR File # <u>23-064690</u> Permit No. <u>20240020401</u>
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Type of Permit: ☐ 01 Roadway ☐ 02 Sidewalk ☐ 03 Traffic Appurtenances Including Signals, Lighting, EV Infrastructure, Signing, Striping ☒ 04 Storm Sewer Collection ☐ 05 Storm Sewer Treatment ☐ 06 Sanitary Sewer Collection ☐ 07 Sanitary Sewer Special ☐ 08 Retaining Wall ☐ 09 Bridge		
Phase: 4A	Location (Street On, From/To, and Adjacent Lots/Blocks): Winthrop Avenue: MH5006 to MH5008, MH5080 to MH5018, MH5058 to MH5057. Howard Street: MH5109 to MH5053, MH5000, HDS-02A, HDS-02B, HDS-04. Cottage Avenue: MH5018 to MH5014. Arlington Avenue: MH5057 to MH5053. Work abuts Lot 1 Block 3, Lot 1 Block 4, Lot 1 Block 5, Lot 1 Block 2, and Lot 1 Block 1.	

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

Scope of work includes all catch basins and stubs associated with these manholes. ~~District stormwater diversions are included in the scope of work but these will be plugged and buried.~~ District swales are not part of the work. ~~Work includes 3 HDS units which will be kept off line until final stabilization occurs. Work also includes a special diversion structure (8 ft. by 10 ft. location at MH5000 in plans).~~ Engineers estimate for this work is ~~\$1,319,586~~. The amount is based on actual bid items from the contractor.

Applicant Contact Person: Bob Barth	Contact Person Title: Director of Land Development	Contact Person Telephone: 651-485-1204	Contact Person Email: bbarth@wsbeng.com
Bond Co.: N/A	Bond Amount: N/A	Bond No.: N/A	
Insurance Co.: United Fire & Cas., SFM Mutual Ins., Navigators Spec. Ins.		Insurance Certificate No.: 13021, 11347, 36056	

Permit Conditions:

The permit issued herein is for storm sewer conveyance only. Storm treatment components will require a separate Ordinance Permit once treatment system plans are approved. The applicant shall submit to the Department of Public Works all shop drawings for record. Said shop drawings shall have approval stamps from the Engineer of Record (EOR) and the onsite field representative Bolton & Menk. Issuance of the Ordinance Permit herein does not constitute approval of the storm conveyance system plan components, e.g. pipe grades, pipe alignment, etc. or shop drawings.

The plans as submitted are unsigned by the EOR and have revision dates of 3/29/2024 for the conveyance system components. The permit herein is approved based only on plans as submitted with the application as signed and dated by the Developer on 7/02/2024.

If the plans as submitted with the application require revisions that affect installation the responsibility for any corrections is wholly that of the Developer. It is anticipated that any field changes will use the RFI process as established by Bolton & Menk.

Bolton & Menk along with a representative of the EOR shall be responsible to confirm product delivery is in conformance with the approved shop drawings and approved plans. The results of the review shall be communicated back to the Department of Public Works Sewer Division

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**

A PERMIT FOR THE ABOVE DESCRIBED CONSTRUCTION IS AUTHORIZED BY:		
<u>David Kuebler, P. E.</u> Signature <u>David Kuebler</u> Printed Name	<u>Department Lead</u> Title	<u>July 18, 2024</u> Date

PERMIT NUMBER 20240020401

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.
- NA ☐ 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;
- NA ☐ 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;
- NA ☐ For infrastructure within parks: Documentation that the Parks Department has been notified of completion status;
- NA ☐ 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. 20240020401 Council Res. No. _____ Permit Date _____

Release Authorized by _____ Title _____

SCALE: AS SHOWN
DESIGN BY: ###
PLAN BY: ###
CHECK BY: ###

NO.	DATE	DESCRIPTION
1	01/30/2024	ADDENDUM NO. 1
3	03/29/2024	PLAN REVISIONS
4	06/19/2024	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.

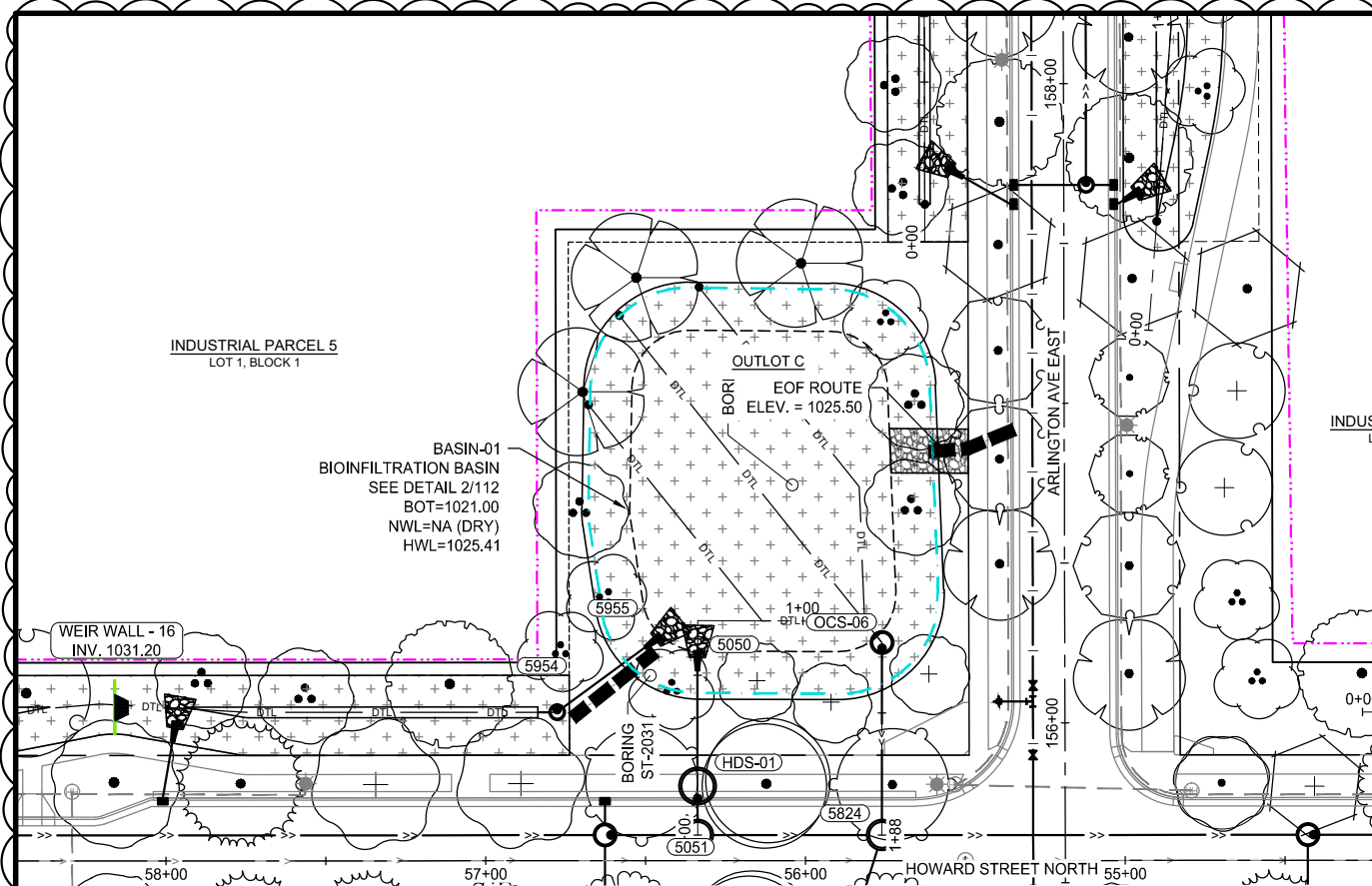
PAUL HORNEY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

DISTRICT STORMWATER INFILTRATION BASIN DETAIL

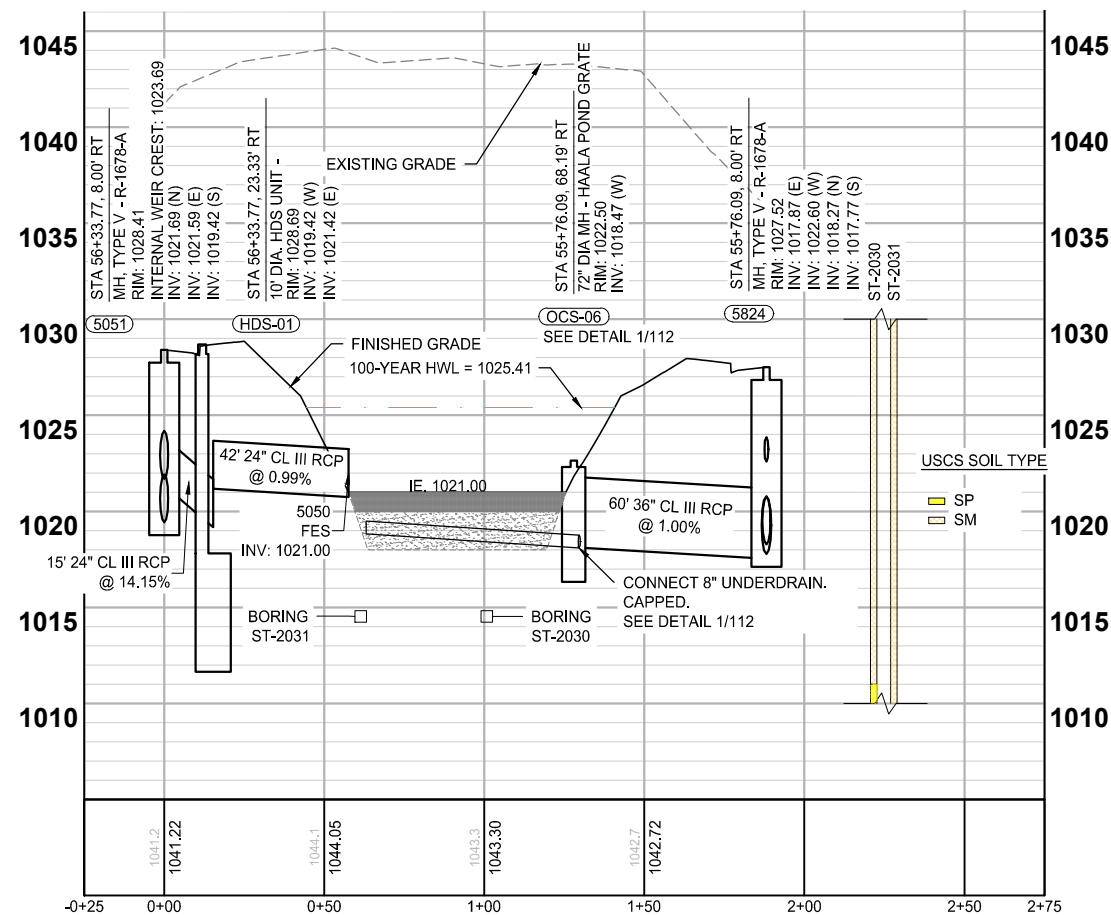
BID PACKAGE NO. 2
INFRASTRUCTURE PLANS FOR:
SAINT PAUL, MINNESOTA

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

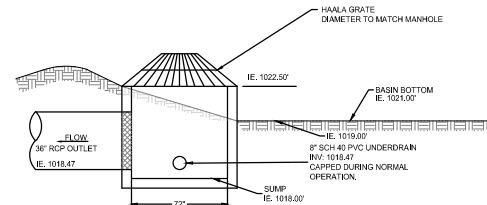
WSB PROJECT NO.
013987-000



PLAN VIEW



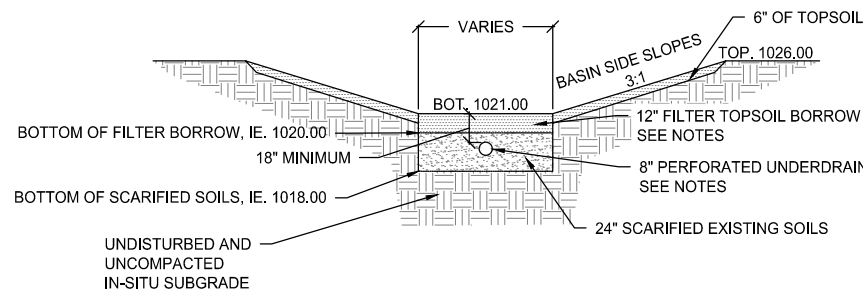
PROFILE VIEW



NOTE:
1. ALL PIPE JOINTS SHALL BE TIED.

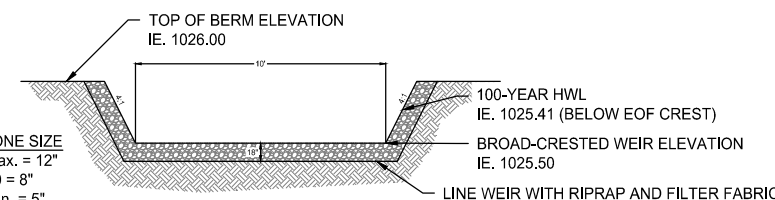
1 OCS-06 POND SKIMMER STRUCTURE WITH WEIR WALL

SCALE: NO SCALE



2 BASIN-01 - INFILTRATION BASIN SECTION

SCALE: NO SCALE



3 EMERGENCY OVERFLOW

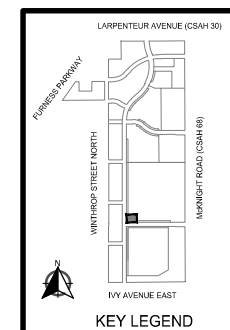
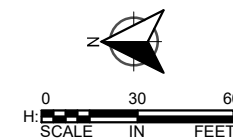
SCALE: NO SCALE

NOTES:

- INFILTRATION PERIMETER CONTROL AND EROSION CONTROL PRACTICES SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE PROJECT OR VEGETATION HAS BEEN ESTABLISHED (WHICHEVER IS LATER).
- INSTALLATION OF INFILTRATION PRACTICES SHALL BE DONE DURING PERIODS OF DRY WEATHER AND COMPLETED BEFORE A RAINFALL EVENT. PLACEMENT OF ENGINEERED SOILS SHALL BE ON DRY NATIVE SOIL ONLY. THE CONTRACTOR SHALL CONTACT NICOLE MARAS, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7976 AT LEAST 48 HOURS PRIOR TO THE CONSTRUCTION OF THE INFILTRATION BASIN
- EXCAVATION OF INFILTRATION SHALL BE COMPLETED USING A BACKHOE WITH A TOOTHED BUCKET.
- NATIVE SOILS IN INFILTRATION AREAS SHALL BE DE-COMPACTED TO A MINIMUM DEPTH OF 18 INCHES.
- THE BOTTOM OF EXCAVATION SURFACE OF INFILTRATION AREAS SHALL BE LEVEL WITHOUT DIPS OR SWALES.
- DURING CONSTRUCTION, STORMWATER MUST BE ROUTED AROUND INFILTRATION AREAS UNTIL ALL CONSTRUCTION ACTIVITY HAS CEASED AND TRIBUTARY SURFACES ARE CLEANED OF SEDIMENT.
- THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE A TEST PIT DURING CONSTRUCTION AT LEAST 5-FEET BELOW THE PROPOSED BOTTOM OF THE INFILTRATION BASIN. VERIFICATION OF SOIL IS REQUIRED BY THE ENGINEER BEFORE INSTALLATION OF THE BASIN CAN BEGIN. EXCAVATION FOR THE TEST PIT SHALL BE PAID FOR UNDER BID ITEM 2105.507, "SUBGRADE EXCAVATION". IF THE TEST PIT REVEAL LONG-TERM INFILTRATION RATES THAT ARE BELOW 0.45 INCHES PER HOUR, THEN THE INFILTRATION BASIN WILL NEED TO BE MODIFIED BY THE ENGINEER TO MEET RWMWD VOLUME AND DRAWDOWN REQUIREMENTS.

LEGEND

- CONSTRUCTION LIMITS
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED SUBDRAIN
- EXISTING STORM STRUCTURES
- PROPOSED STORM STRUCTURES
- PROPOSED EOF ROUTE
- 100-YEAR HWL



SCALE: AS SHOWN
DESIGN BY: ###
PLAN BY: ###
CHECK BY: ###

REVISIONS				
NO.	DATE	DESCRIPTION	ADDENDUM NO.	REVISIONS
1	01/30/2024			PLAN REVISIONS
3	03/29/2024			PLAN REVISIONS
4	06/19/2024			PLAN REVISIONS
5	06/26/2024			REVISION 5

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.

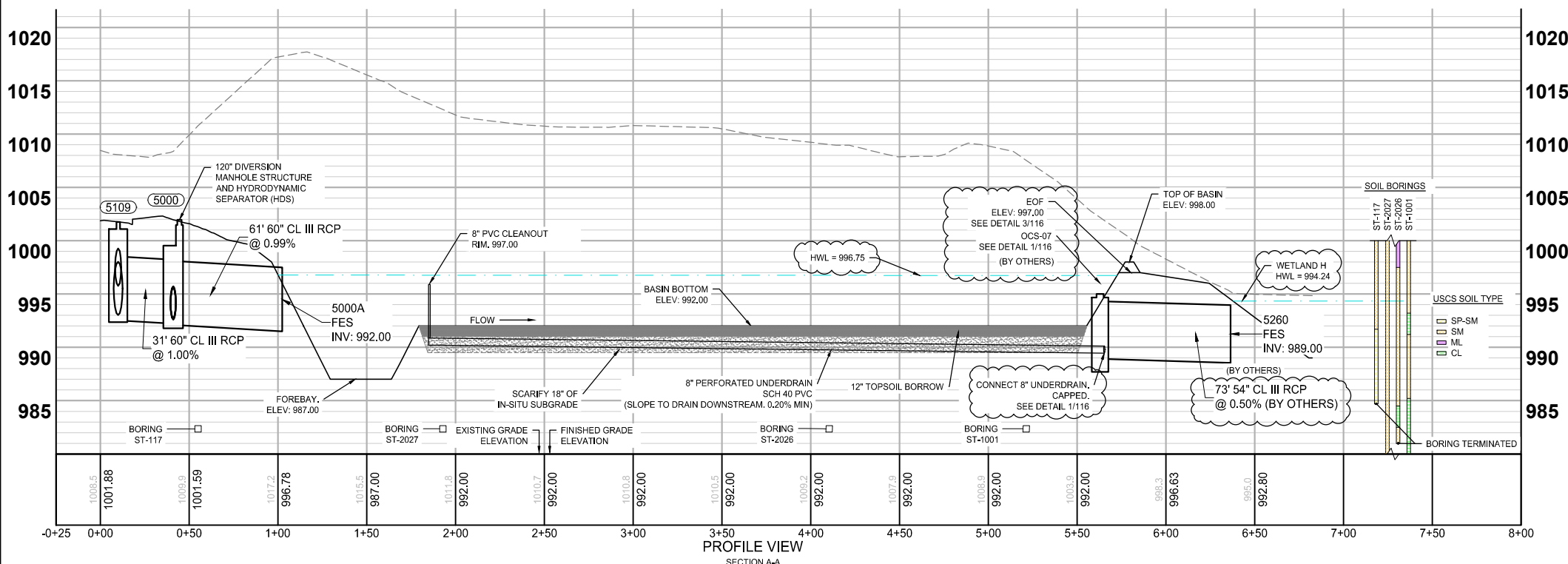
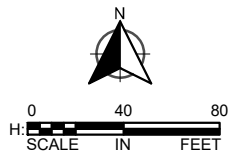
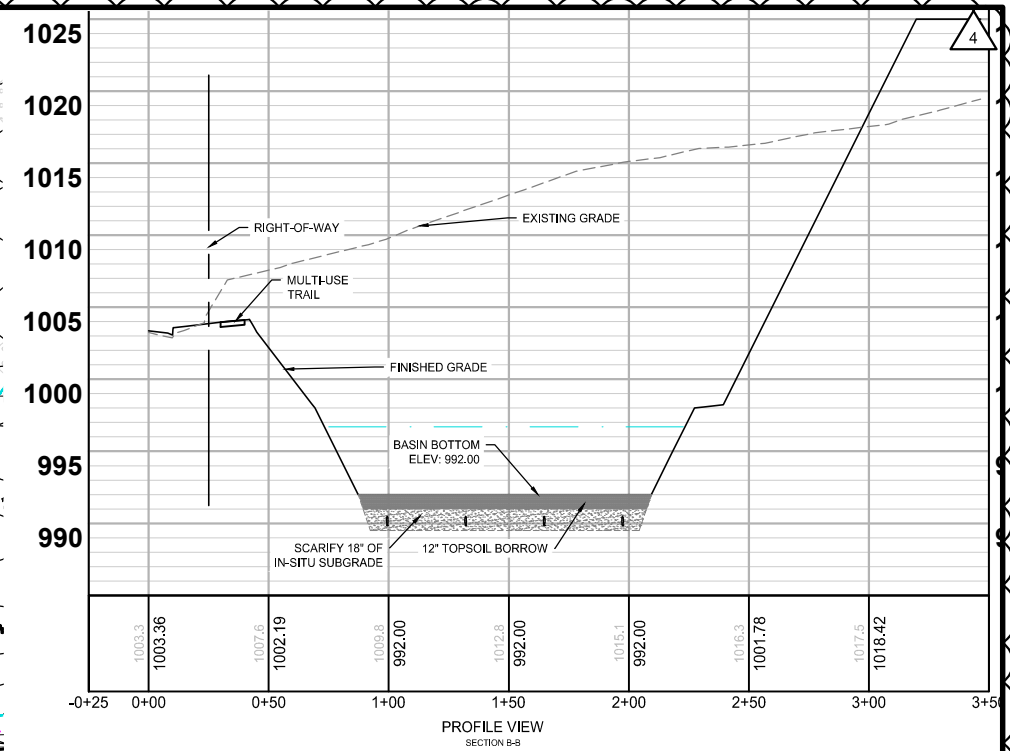
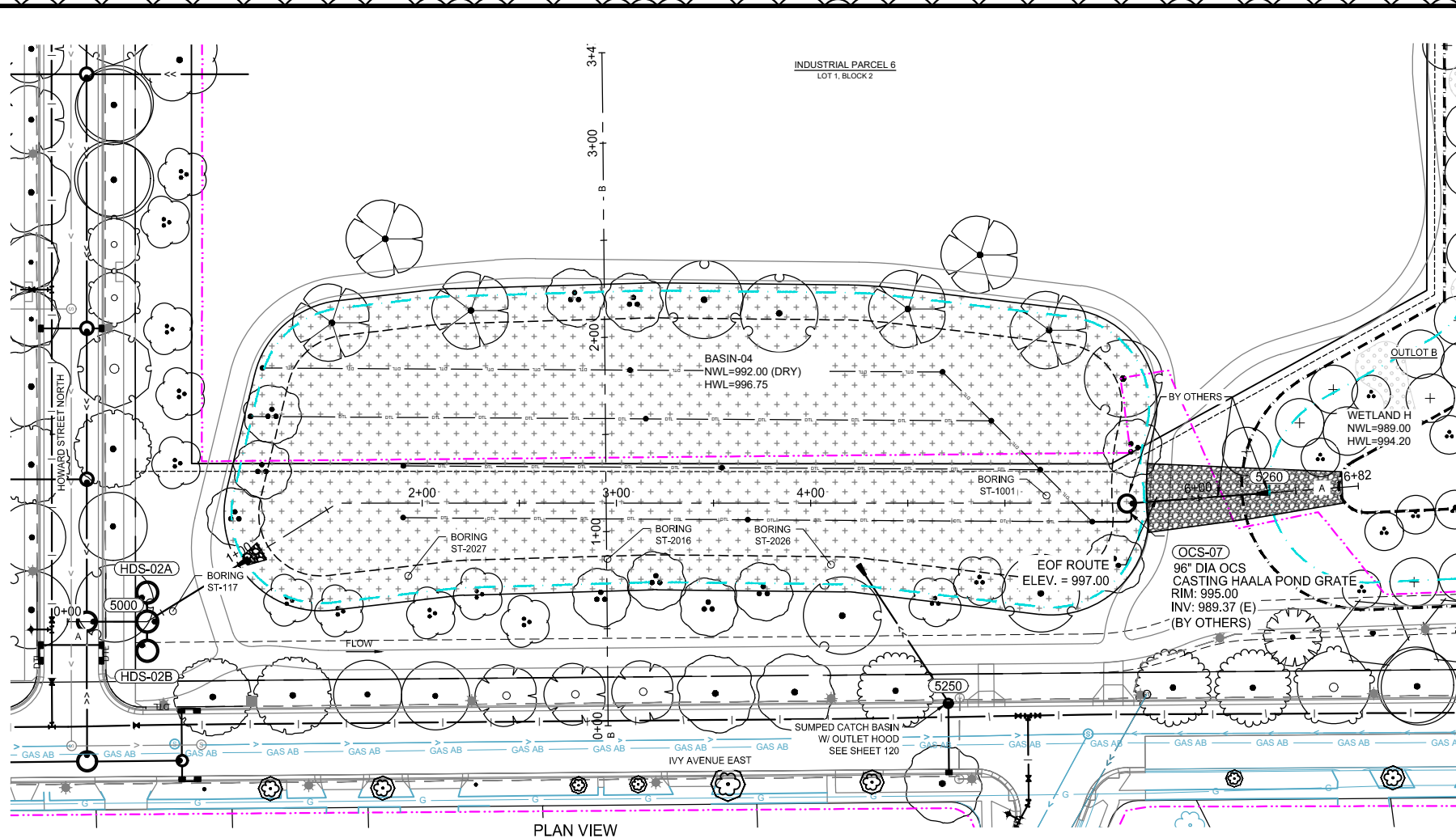
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO.: 23359

DISTRICT STORMWATER INFILTRATION BASIN DETAIL

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

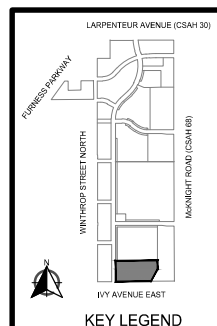


NOTES:

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LEGEND

- CONSTRUCTION LIMITS
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED SUBDRAIN
- EXISTING STORM STRUCTURES
- PROPOSED STORM STRUCTURES
- PROPOSED EOF ROUTE
- 100-YEAR HWL
- TEMPORARY BYPASS ROUTING



SCALE:	DESIGN BY:
AS SHOWN	###
PLAN BY:	CHECK BY:
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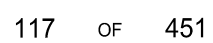
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 PAUL HORNBY, P.E.

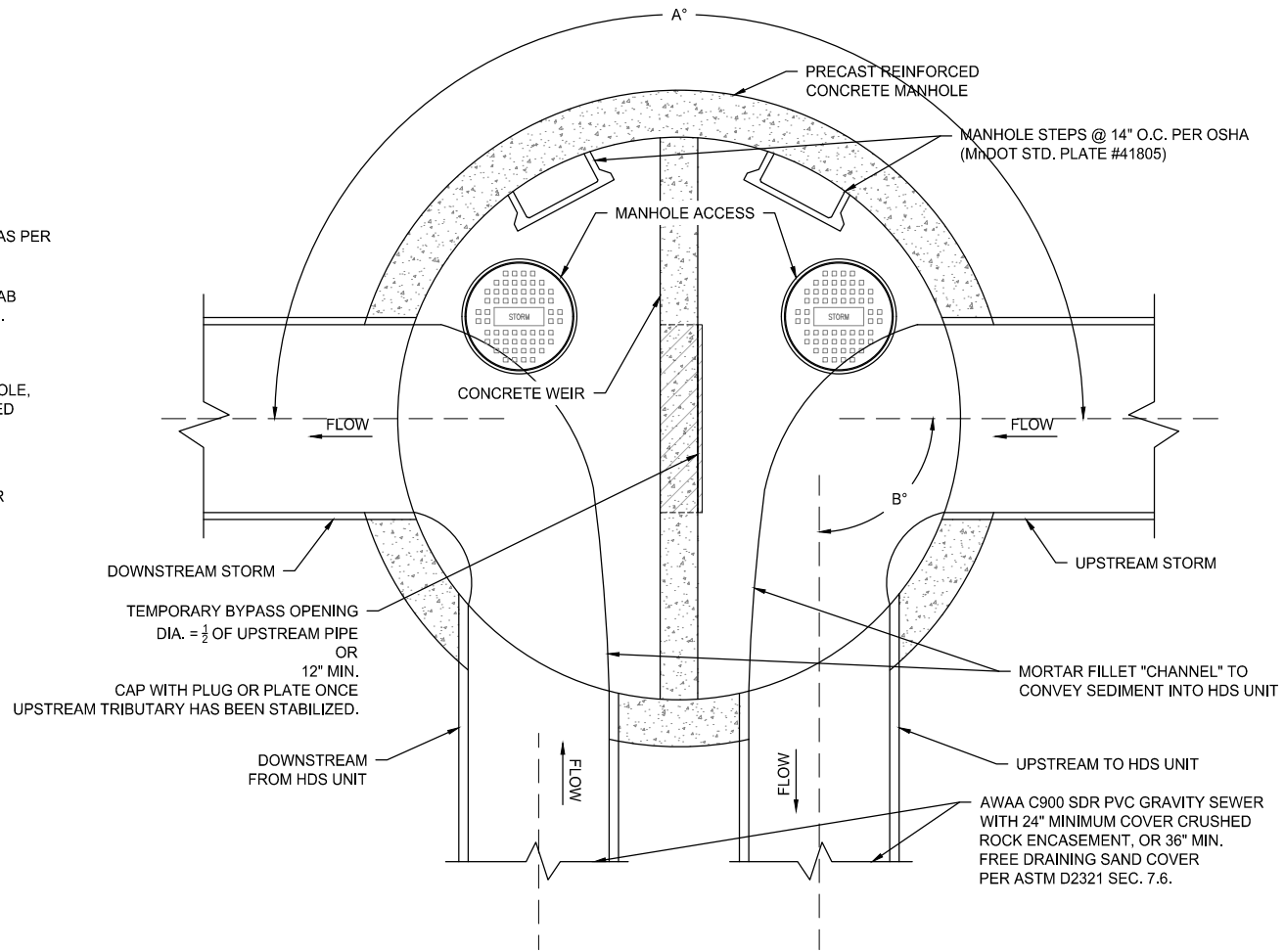
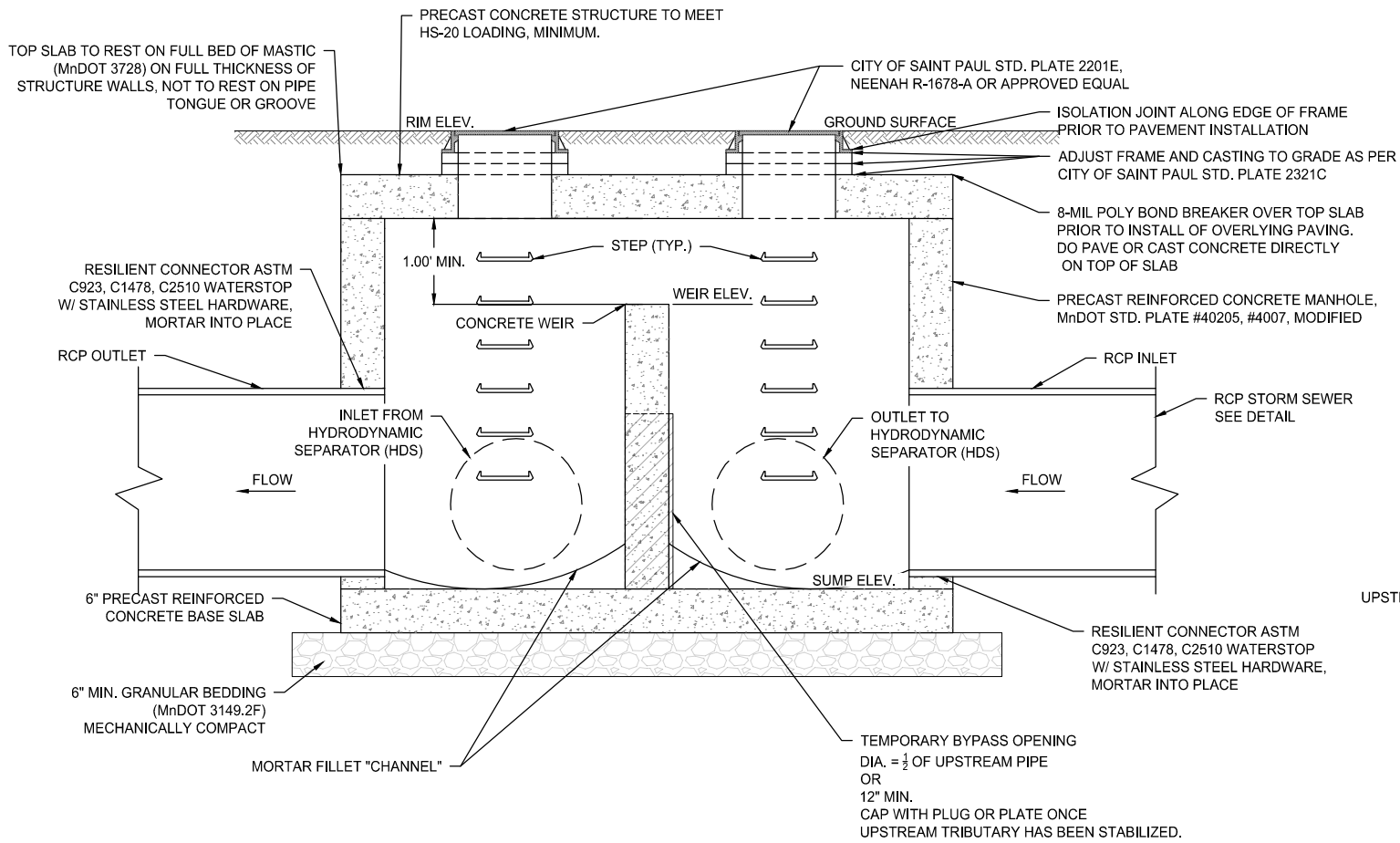
DATE: 03/20/2024 LIC. NO. 23359

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

WSB PROJECT NO.
013987-000



DOWNSTREAM DEFENDER BYPASS MANHOLE PROPERTIES																
STRUCTURE	ADJACENT HDS MANHOLE ID	PRECAST MANHOLE SIZE (IN.)	RIM ELEV. (FT.)	SUMP ELEV. (FT.)	CONCRETE WEIR LENGTH (FT.)	CONCRETE WEIR TOP ELEV. (FT.)	UPSTREAM STORM DIA. (IN.)	UPSTREAM STORM I.E. (FT.)	DOWNSTREAM STORM DIA. (IN.)	DOWNSTREAM STORM I.E. (FT.)	UPSTREAM TO HDS DIA. (IN.)	UPSTREAM TO HDS I.E. (FT.)	DOWNSTREAM FROM HDS DIA. (IN.)	DOWNSTREAM FROM HDS I.E. (FT.)	STORM TO STORM ANGLE A° (DEG.)	STORM TO HDS ANGLE B° (DEG.)
5051	HDS-01	96" - DIA.	RIM = 1028.41	1019.42	8	1023.69	30	1021.69	30	1019.42	24	1021.59	NA	NA	180	90
5000	HDS-02A HDS-02B	8'W x 12'L RECT.	RIM = 1001.96	992.61	8	994.86	60	992.71	60	992.61	36 36	992.71 992.71	36 36	992.61 992.61	148	90 90
5303	HDS-03	8'W x 8'L RECT.	RIM = 1003.76	995.39	8	999.50	36	997.96	36	995.39	24	997.86	24	996.39	90	180
5526	HDS-04	72" - DIA.	RIM = 1024.53	1019.67	6	1021.05	18	1020.02	18	1019.92	18	1020.02	18	1019.92	123	153
5421	HDS-05	96" - DIA.	RIM = 1035.41	1020.10	8	1022.25	30	1020.20	30	1020.10	18	1020.20	18	1020.10	180	90



SCALE: AS SHOWN
DESIGN BY: ###
PLAN BY: ###
CHECK BY: ###

REVISIONS				
NO.	DATE	DESCRIPTION	ADDENDUM NO. 1	PLAN REVISIONS
1	01/30/2024			
3	03/29/2024			
4	06/19/2024			

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

BYPASS
MANHOLE
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:	DESIGN BY:
AS SHOWN	###
PLAN BY:	CHECK BY:
###	###

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

 PAUL HORNBY, P.E.

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

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

WSB PROJECT NO.
013987-000



REVISIONS	
NO.	DESCRIPTION

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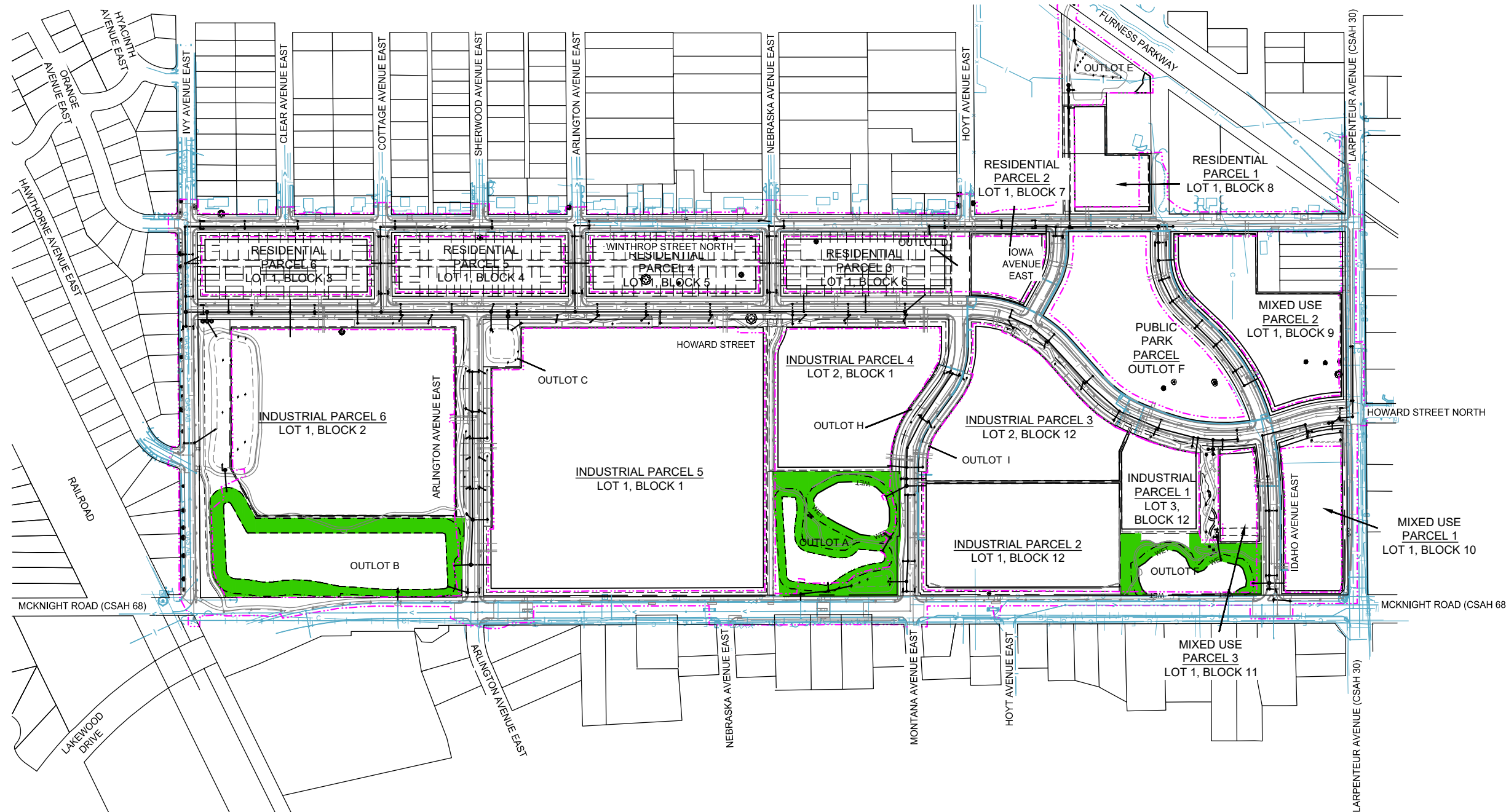
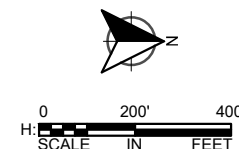
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO. 23359

OVERALL
STORM SEWER
CONSTRUCTION

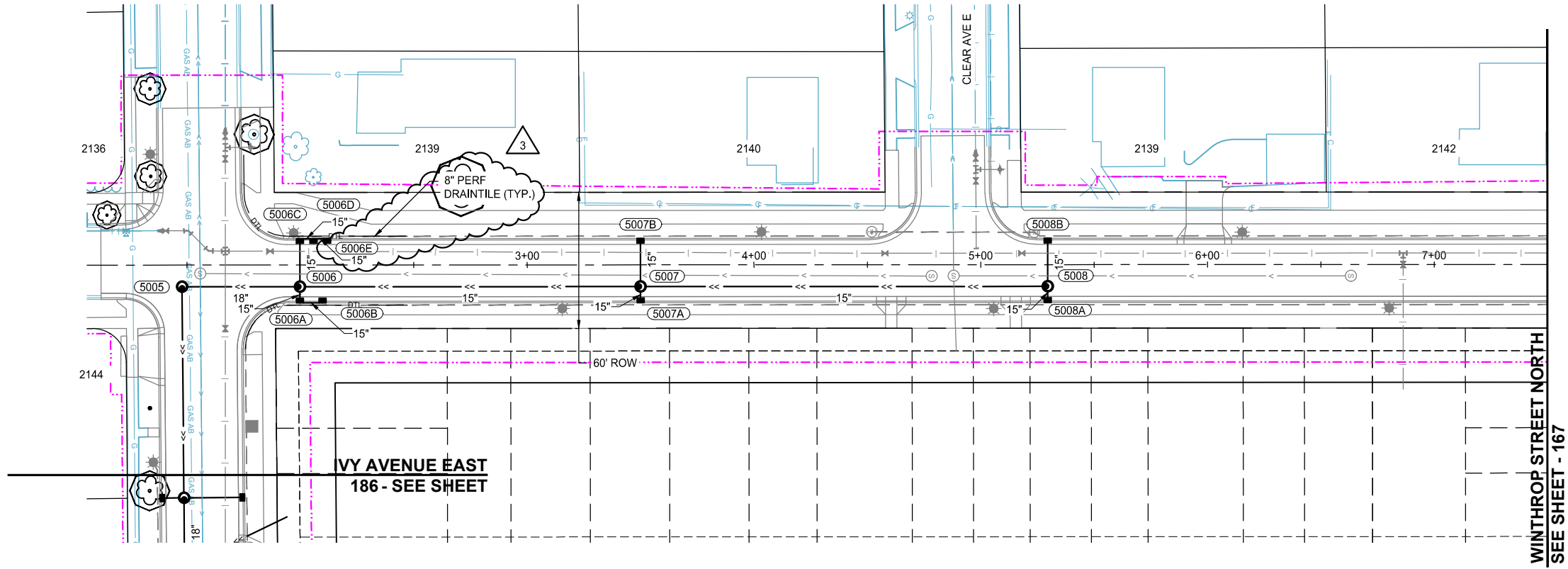
BID PACKAGE NO. 2
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Saint Paul
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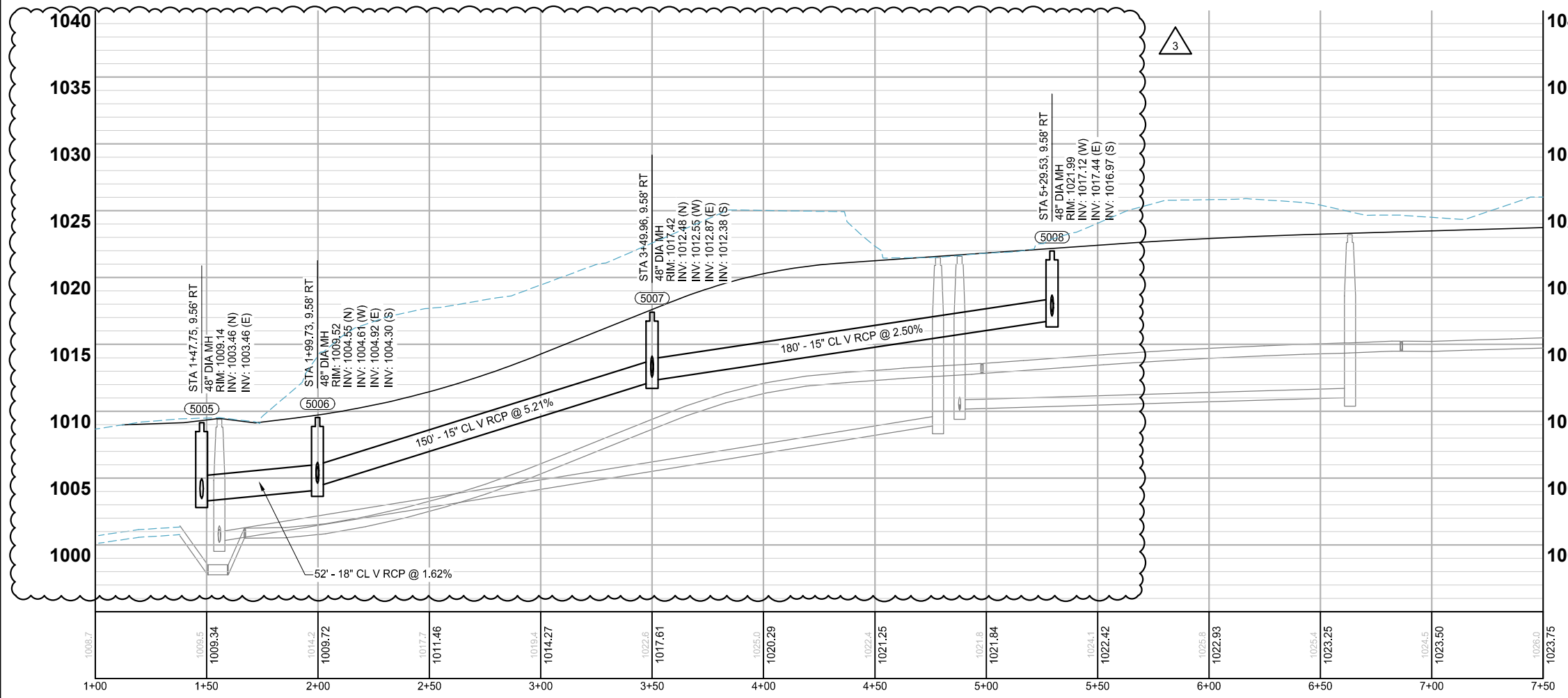
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013987-000



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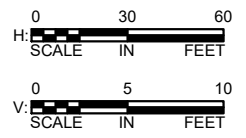
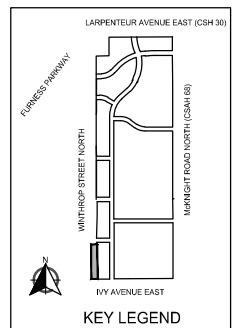


WINTHROP STREET NORTH



NOTES:
1. SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
2. ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

LEGEND	
	CONSTRUCTION LIMITS
	PROPOSED CURB AND GUTTER
	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED SUBSURFACE DRAIN
	PROPOSED RIPRAP



SCALE: AS SHOWN

DESIGN BY: PJM

PLAN BY: DEH

CHECK BY: PTH

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

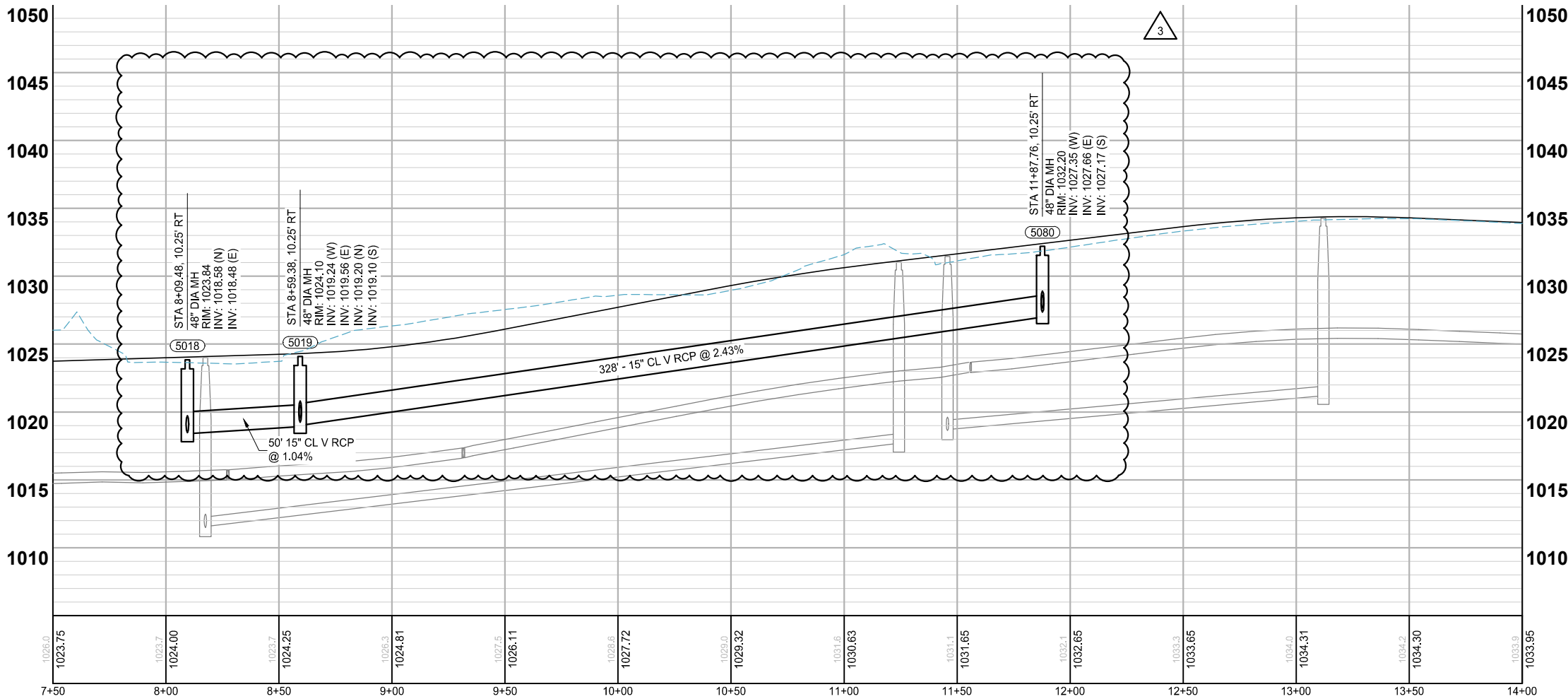
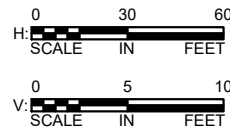
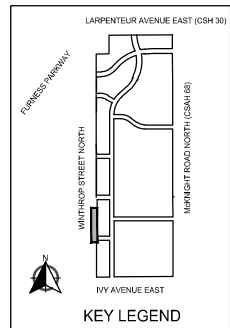
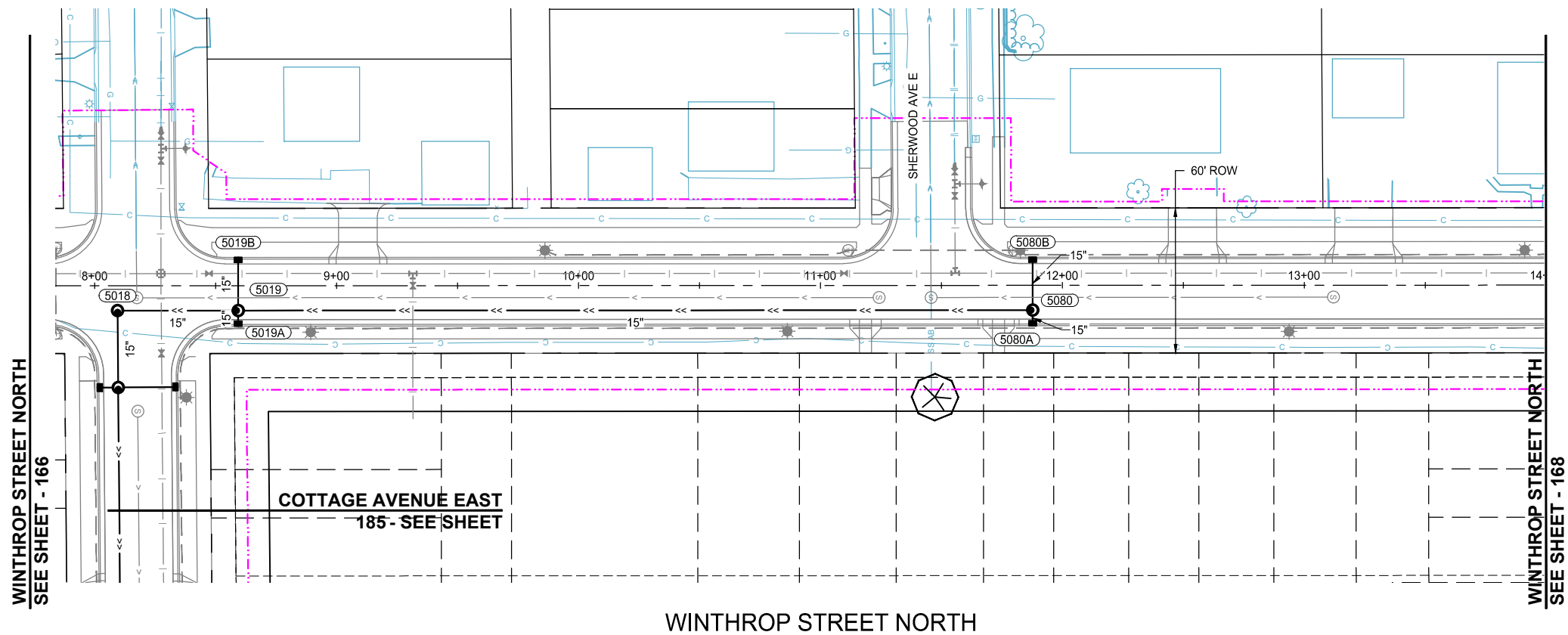
STORM SEWER CONSTRUCTION

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.
013987-000

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- NOTES:
- SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
 - ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

LEGEND

- CONSTRUCTION LIMITS
- PROPOSED CURB AND GUTTER
- PROPOSED BITUMINOUS (EDGE)
- PROPOSED CONCRETE (EDGE)
- PROPOSED GRAVEL (EDGE)
- EXISTING STORM SEWER PIPE
- EXISTING STORM STRUCTURE
- PROPOSED STORM SEWER PIPE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED SUBSURFACE DRAIN
- PROPOSED RIPRAP

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

REVISIONS			
NO.	DATE	DESCRIPTION	PLAN REVISIONS
3	03/15/2024		

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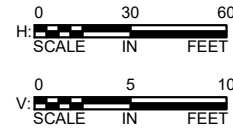
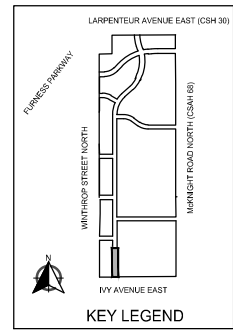
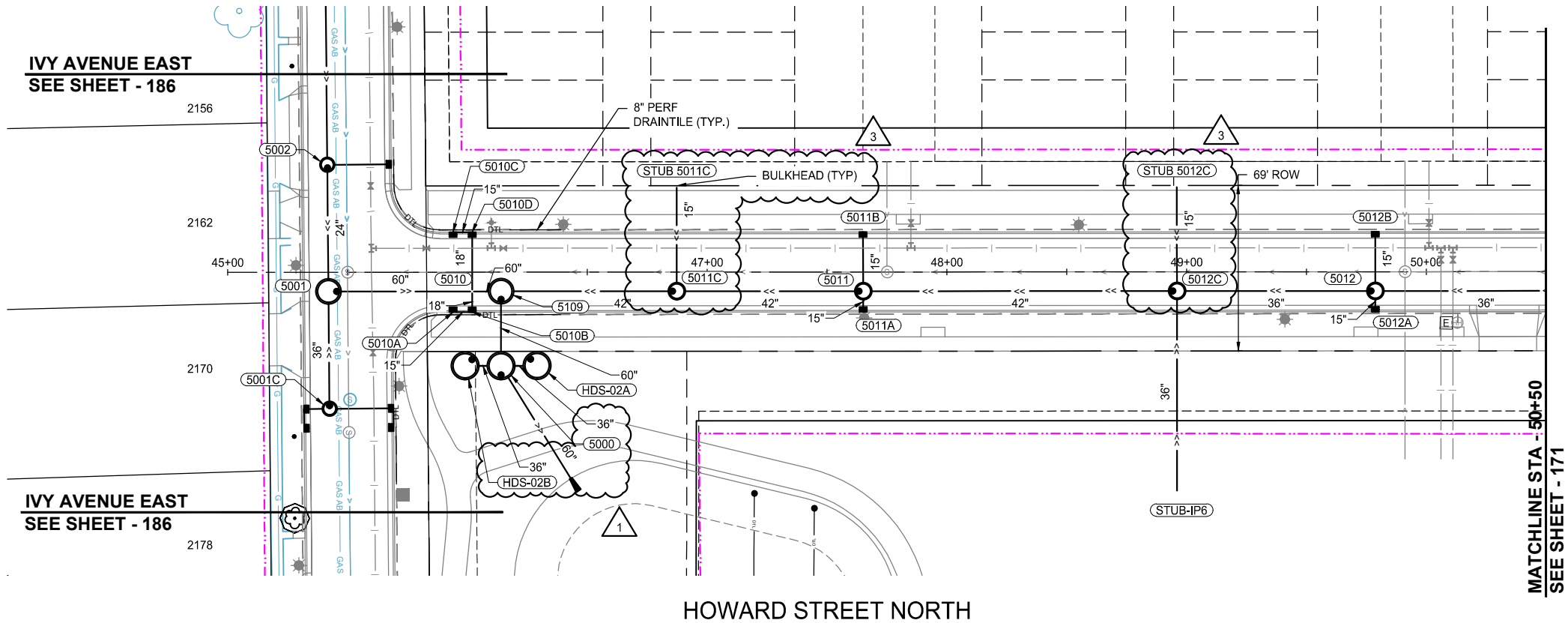
STORM SEWER CONSTRUCTION

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.
013987-000

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

REVISIONS			
NO.	DATE	DESCRIPTION	
1	01/30/2024	ADDENDUM NO. 1	
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.

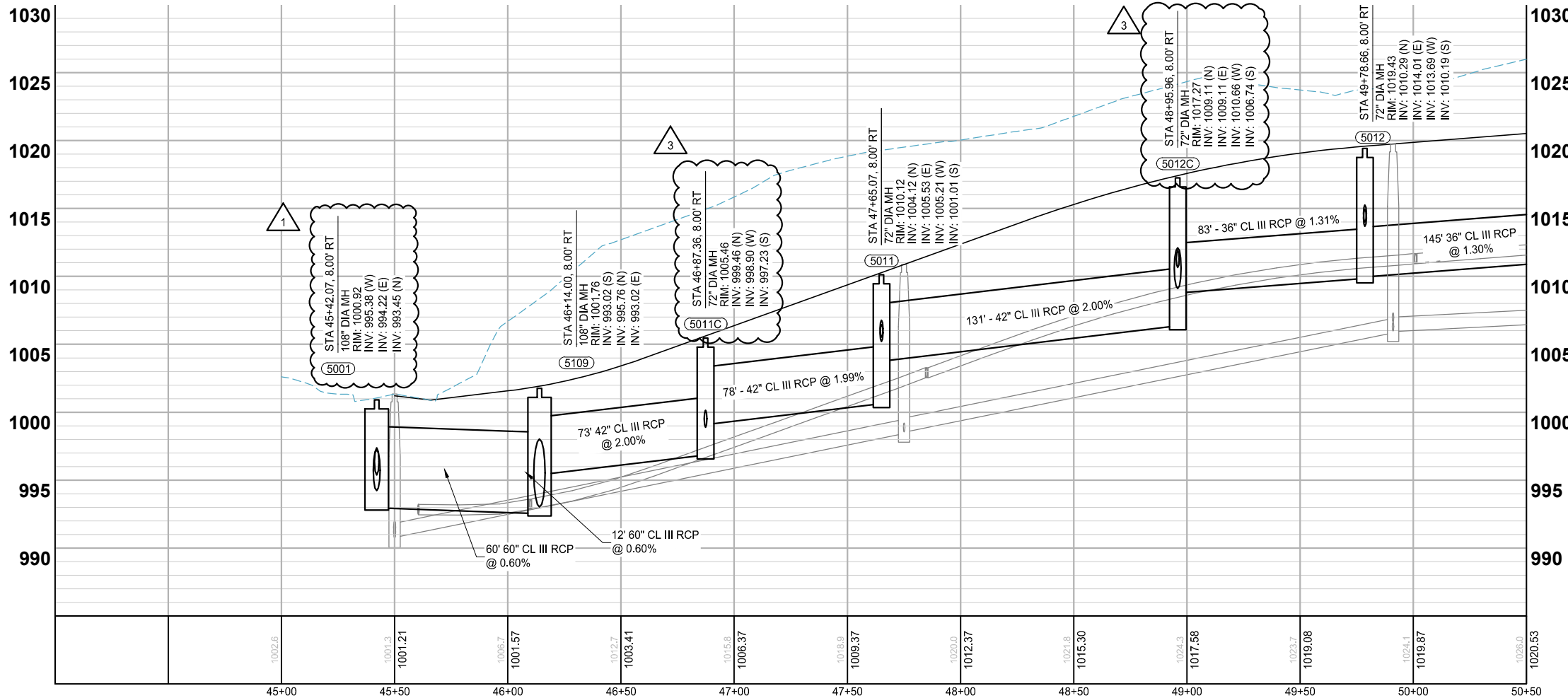
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO: 23359

STORM SEWER CONSTRUCTION

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

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St Paul, Minnesota 55102
Phone 612-224-5686

WSB PROJECT NO.
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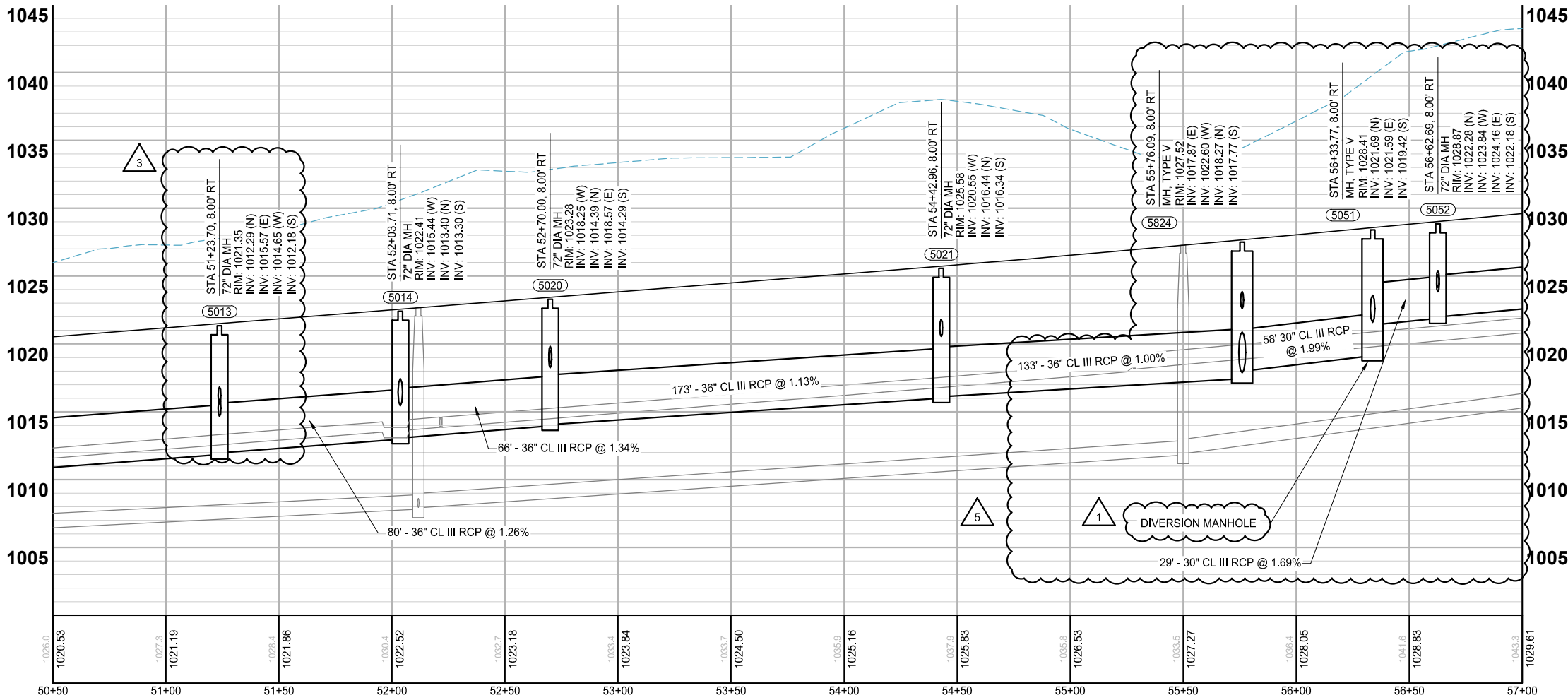
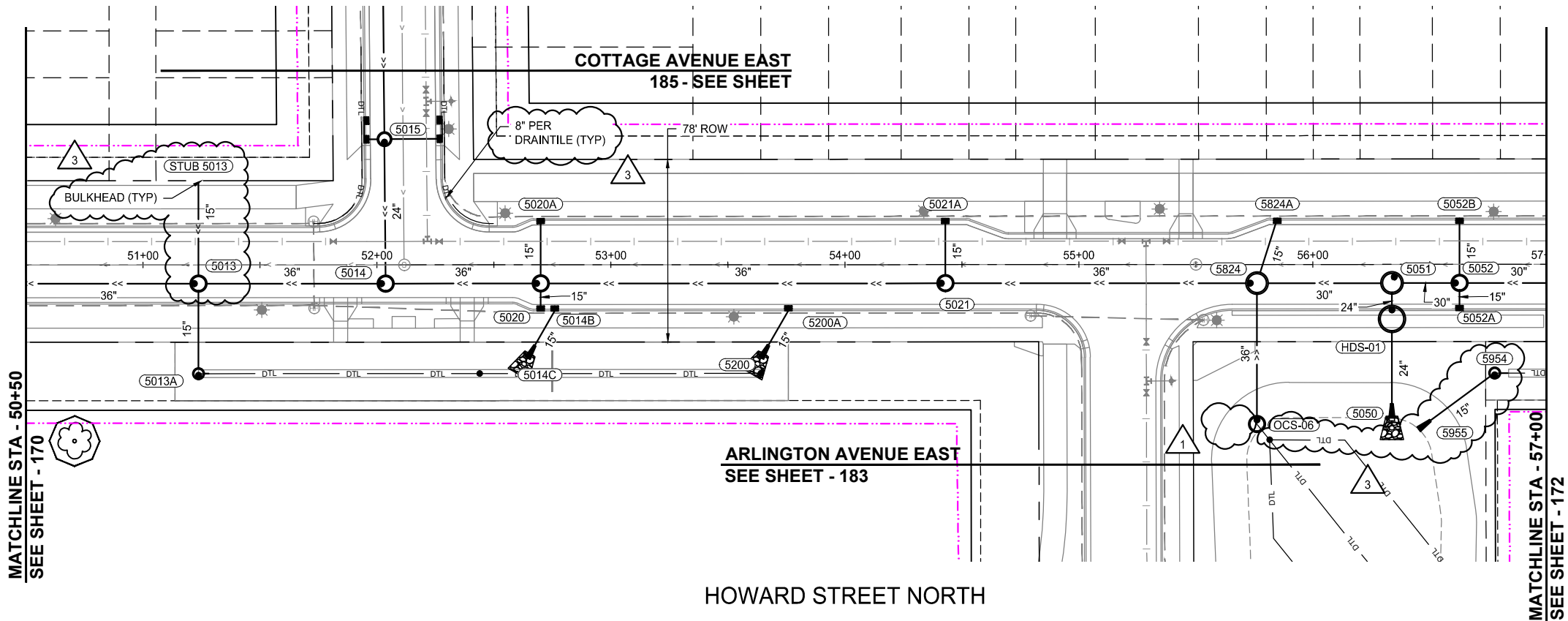


- NOTES:
- SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
 - ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

LEGEND

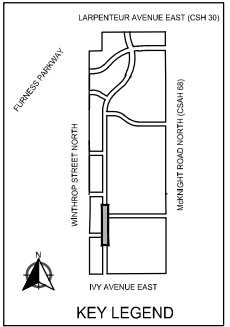
- CONSTRUCTION LIMITS
- PROPOSED CURB AND GUTTER
- PROPOSED BITUMINOUS (EDGE)
- PROPOSED CONCRETE (EDGE)
- PROPOSED GRAVEL (EDGE)
- EXISTING STORM SEWER PIPE
- EXISTING STORM STRUCTURE
- PROPOSED STORM SEWER PIPE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED SUBSURFACE DRAIN
- PROPOSED RIPRAP

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NOTES:
1. SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
2. ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

LEGEND	
	CONSTRUCTION LIMITS
	PROPOSED CURB AND GUTTER
	PROPOSED BITUMINOUS (EDGE)
	PROPOSED CONCRETE (EDGE)
	PROPOSED GRAVEL (EDGE)
	EXISTING STORM SEWER PIPE
	EXISTING STORM STRUCTURE
	PROPOSED STORM SEWER PIPE
	PROPOSED DRAINAGE STRUCTURE
	PROPOSED SUBSURFACE DRAIN
	PROPOSED RIPRAP



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

REVISIONS	
NO.	DESCRIPTION
1	01/30/2024 ADDENDUM NO. 1
3	03/29/2024 PLAN REVISIONS
5	06/26/2024 REVISION 5

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

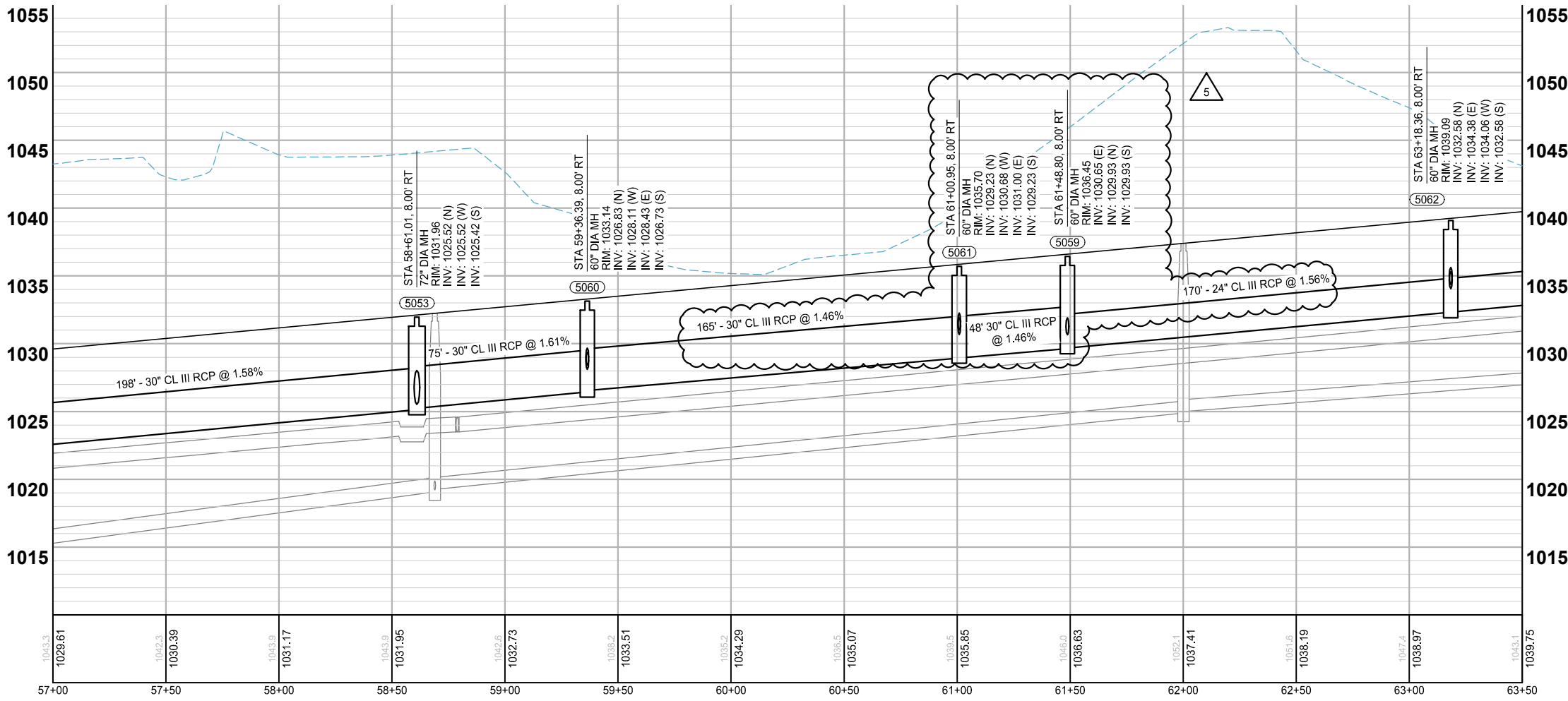
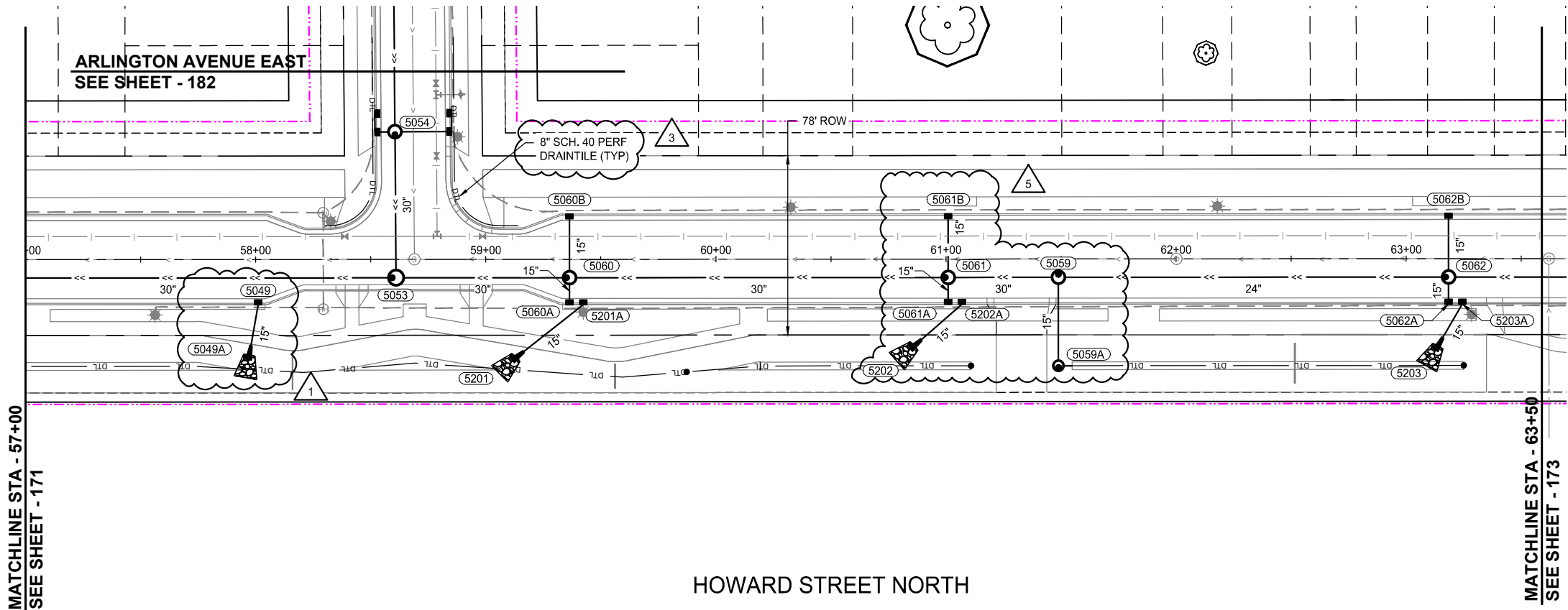
STORM SEWER CONSTRUCTION

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

Saint Paul
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400 Wabasha Street North
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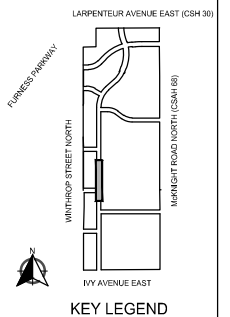
WSB PROJECT NO.
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NOTES:
1. SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
2. ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

- LEGEND
- CONSTRUCTION LIMITS
 - PROPOSED CURB AND GUTTER
 - PROPOSED BITUMINOUS (EDGE)
 - PROPOSED CONCRETE (EDGE)
 - PROPOSED GRAVEL (EDGE)
 - EXISTING STORM SEWER PIPE
 - EXISTING STORM STRUCTURE
 - PROPOSED STORM SEWER PIPE
 - PROPOSED DRAINAGE STRUCTURE
 - PROPOSED SUBSURFACE DRAIN
 - PROPOSED RIPRAP



wsb

SCALE: AS SHOWN
PLAN BY: DEH

DESIGN BY: PJM
CHECK BY: PTH

REVISIONS

NO. DATE DESCRIPTION

1 01/30/2024 ADDENDUM NO. 1

3 03/29/2024 PLAN REVISIONS

5 06/26/2024 REVISION 5

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

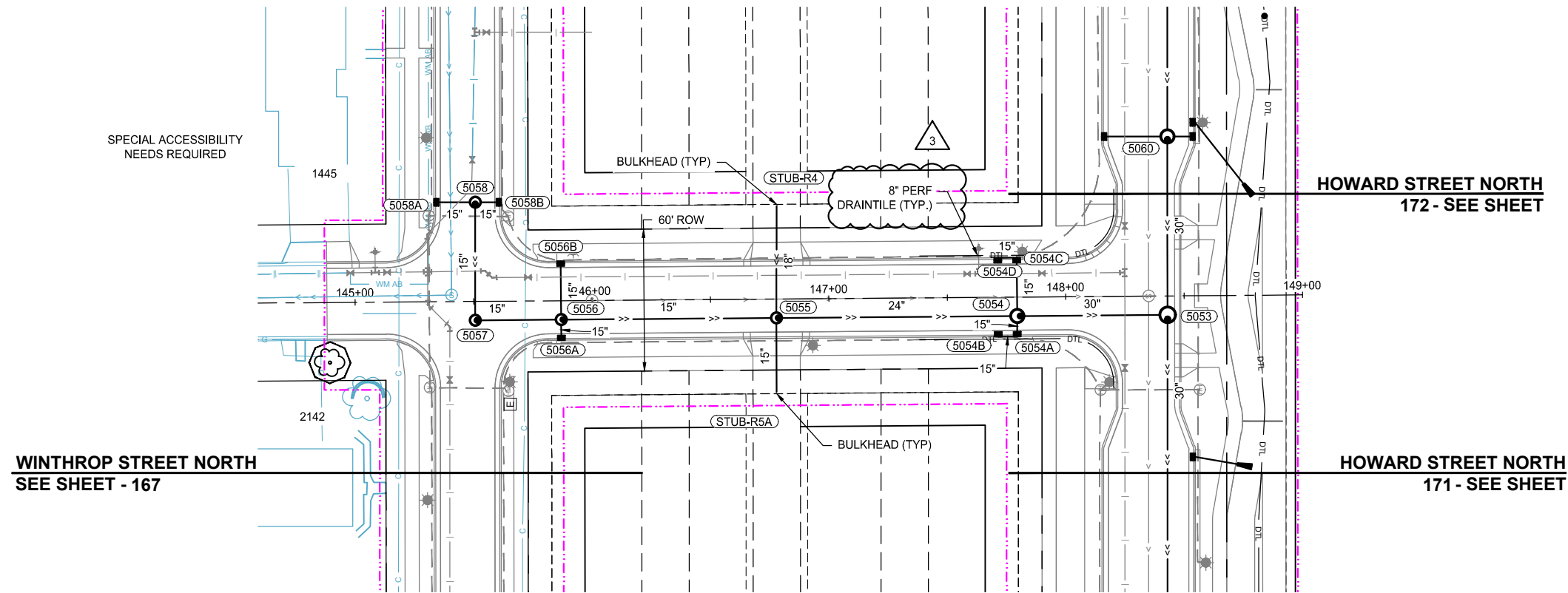
STORM SEWER
CONSTRUCTION

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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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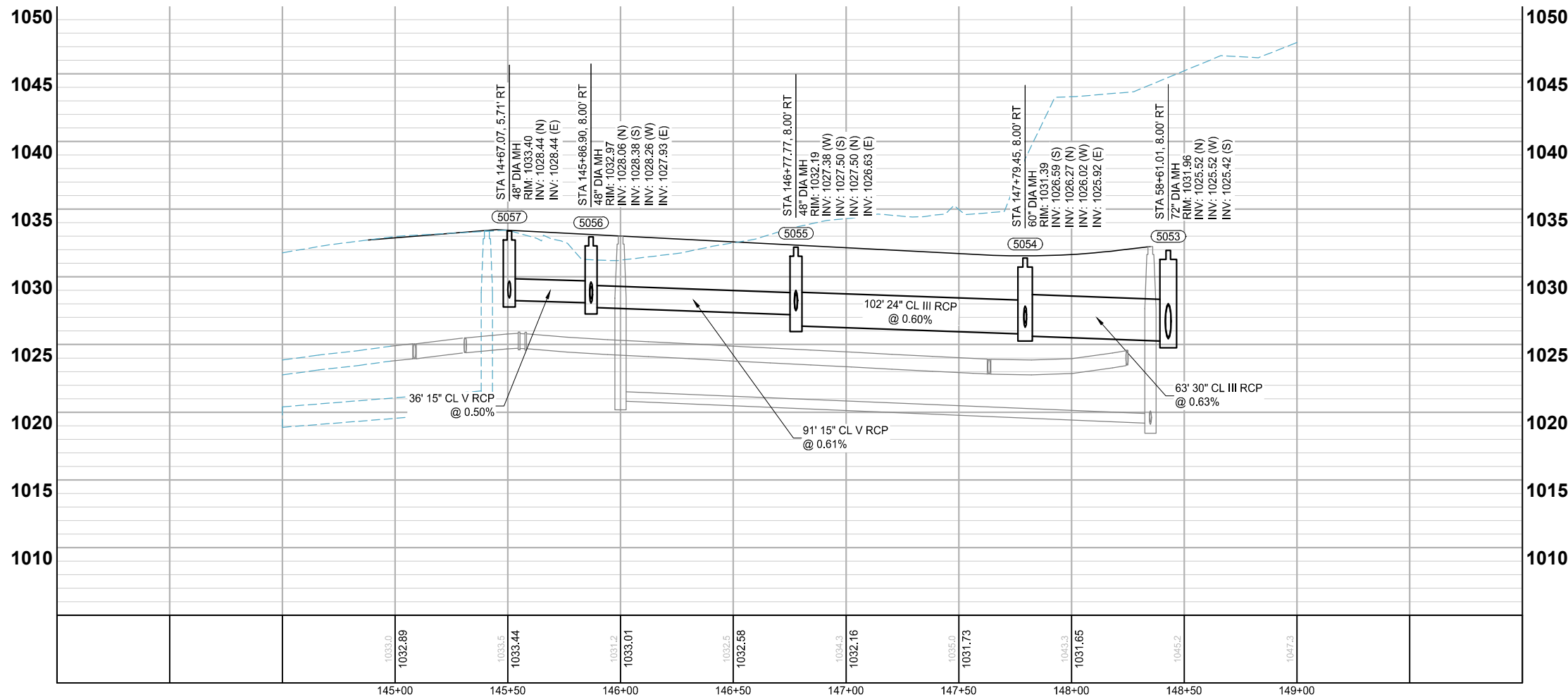


WINTHROP STREET NORTH
SEE SHEET - 167

HOWARD STREET NORTH
172 - SEE SHEET

HOWARD STREET NORTH
171 - SEE SHEET

ARLINGTON AVENUE EAST



NOTES:
1. SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
2. ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

LEGEND

- CONSTRUCTION LIMITS
- PROPOSED CURB AND GUTTER
- PROPOSED BITUMINOUS (EDGE)
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- PROPOSED GRAVEL (EDGE)
- EXISTING STORM SEWER PIPE
- EXISTING STORM STRUCTURE
- PROPOSED STORM SEWER PIPE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED SUBSURFACE DRAIN
- PROPOSED RIPRAP

STORM SEWER
CONSTRUCTION

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

Saint Paul
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400 Wabasha Street North
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St Paul, Minnesota 55102
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REVISIONS

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

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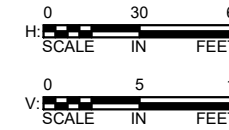
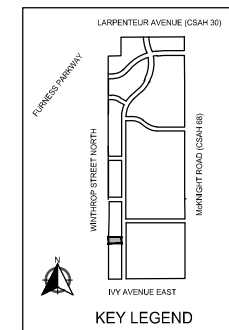
WINTHROP STREET NORTH
SEE SHEET - 167

WINTHROP STREET NORTH
SEE SHEET - 166

HOWARD STREET NORTH
171 - SEE SHEET

HOWARD STREET NORTH
171 - SEE SHEET

COTTAGE AVENUE EAST



REVISIONS

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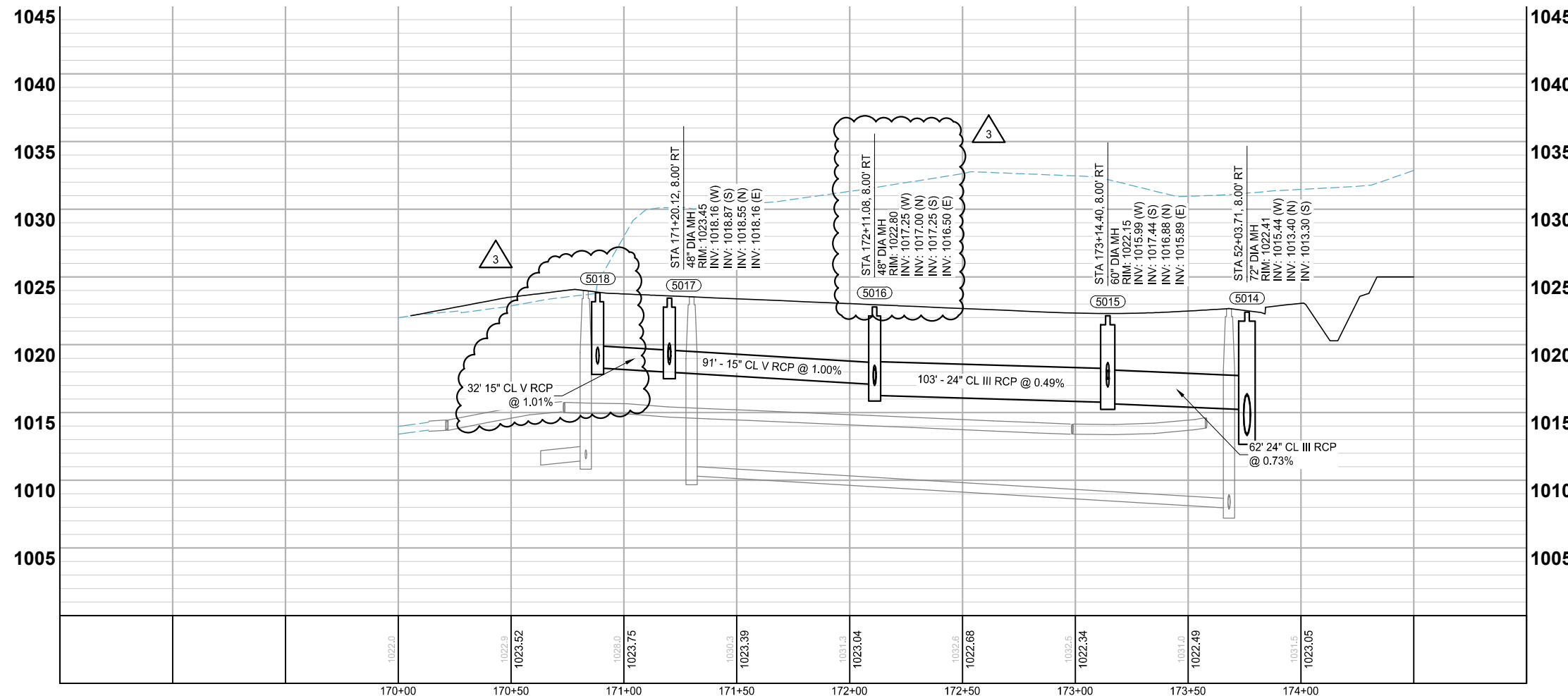
PAUL HORNB, P.E.
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STORM SEWER
CONSTRUCTION

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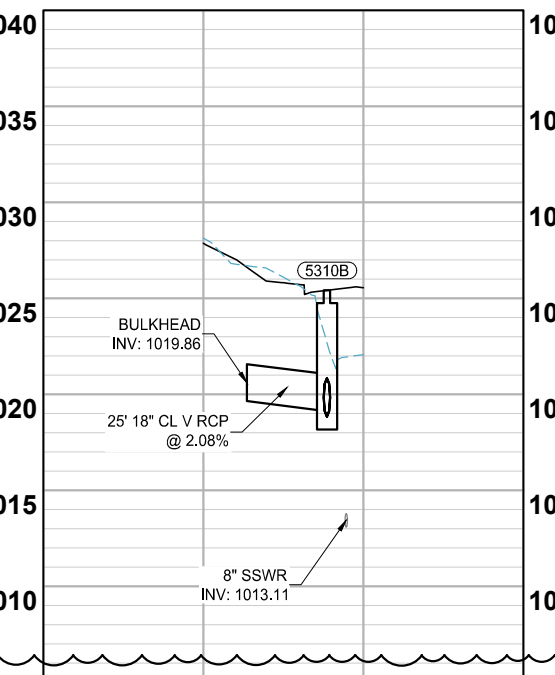
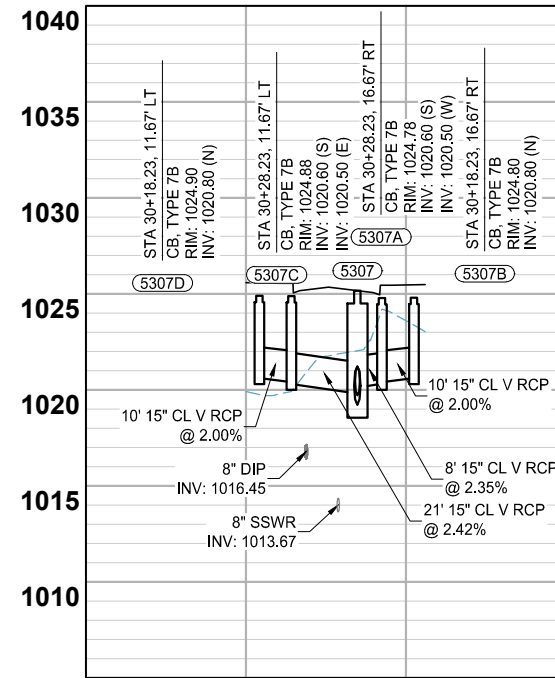
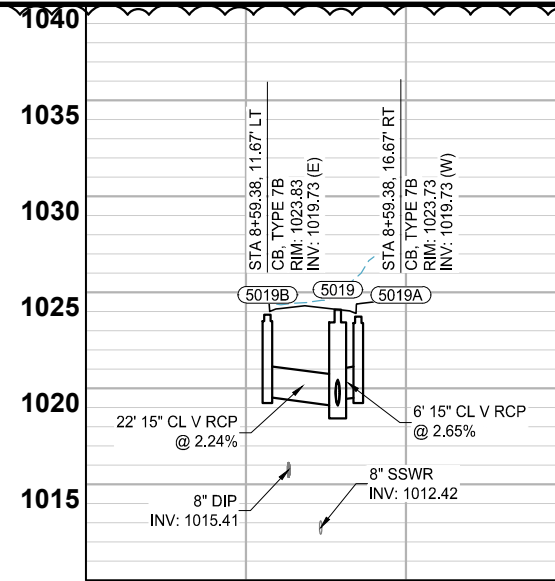
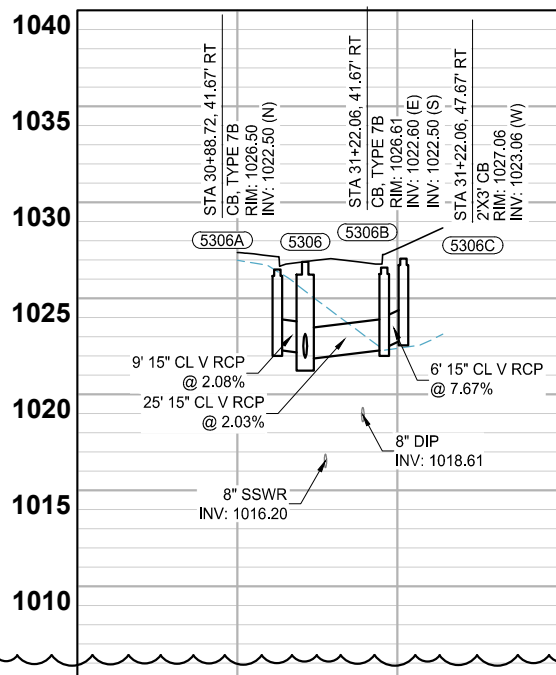
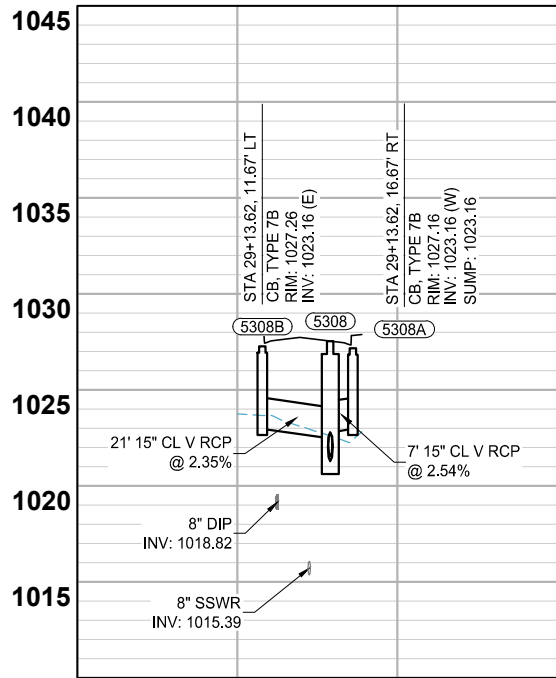
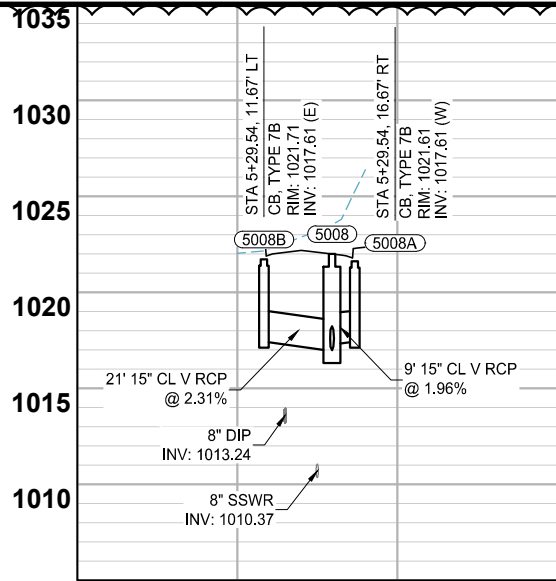
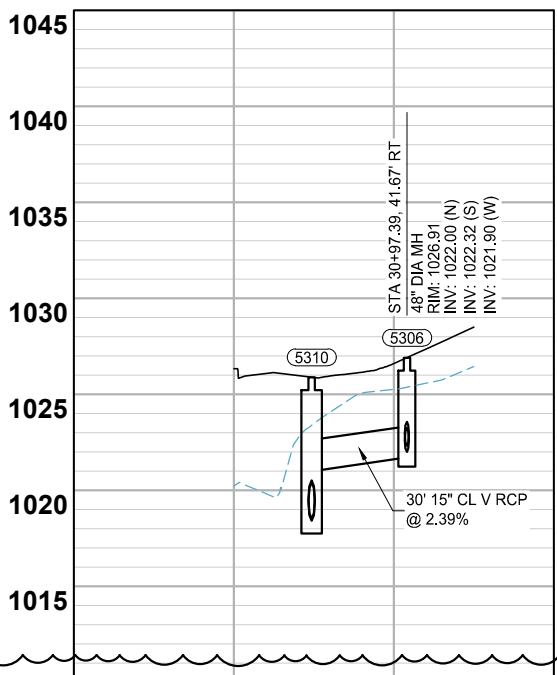
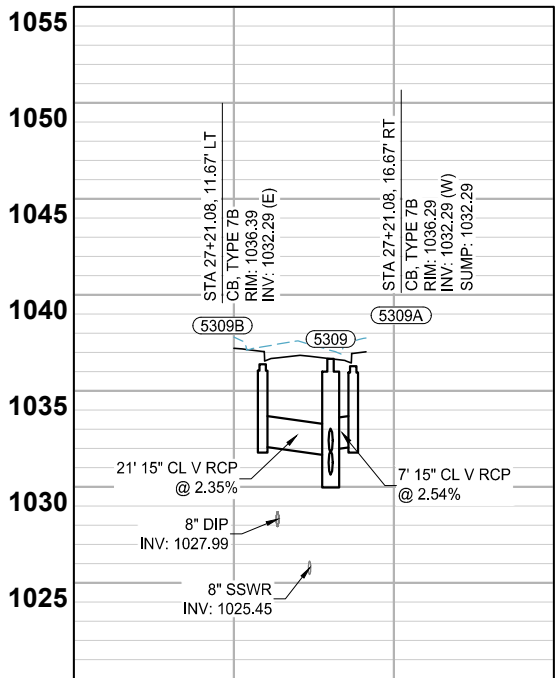
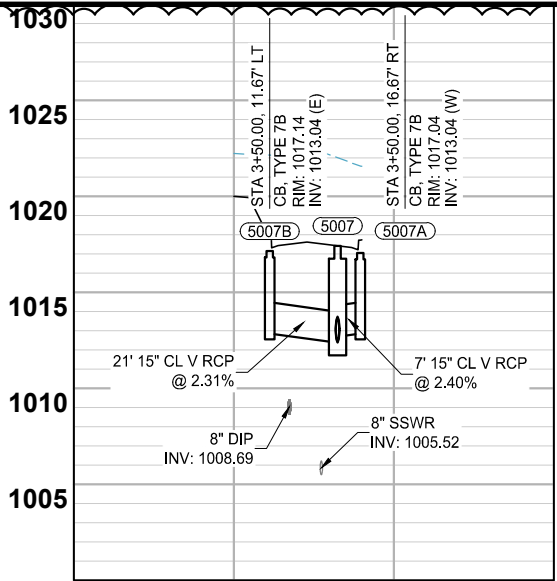
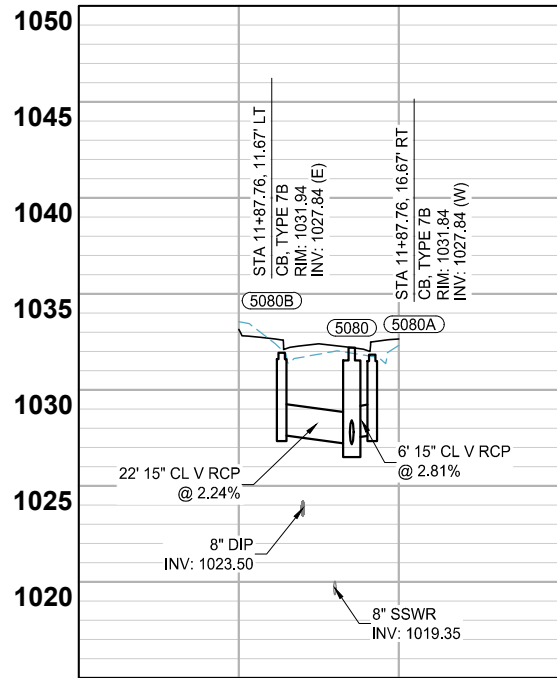
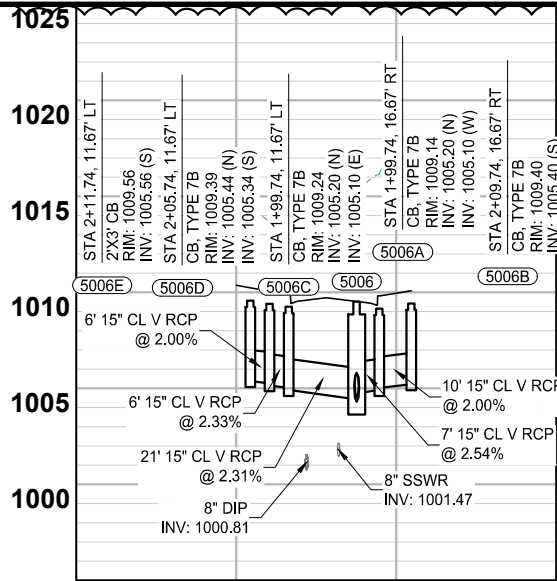


NOTES:
1. SEE SHEETS 193 - 203 FOR LATERAL CROSSINGS.
2. ALL SUBSURFACE DRAINS ARE 8" PERFORATED PVC SDR 26 WITH CLEANOUTS AT UPSTREAM ENDS. (SUBGRADE DRAINTILE)

LEGEND

- CONSTRUCTION LIMITS
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- PROPOSED SUBSURFACE DRAIN
- PROPOSED RIPRAP

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

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

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

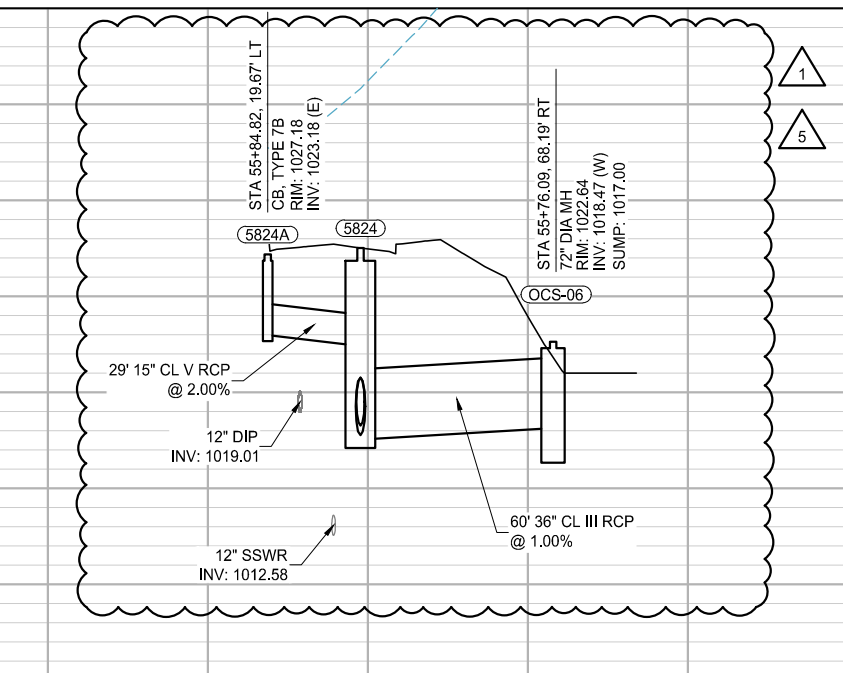
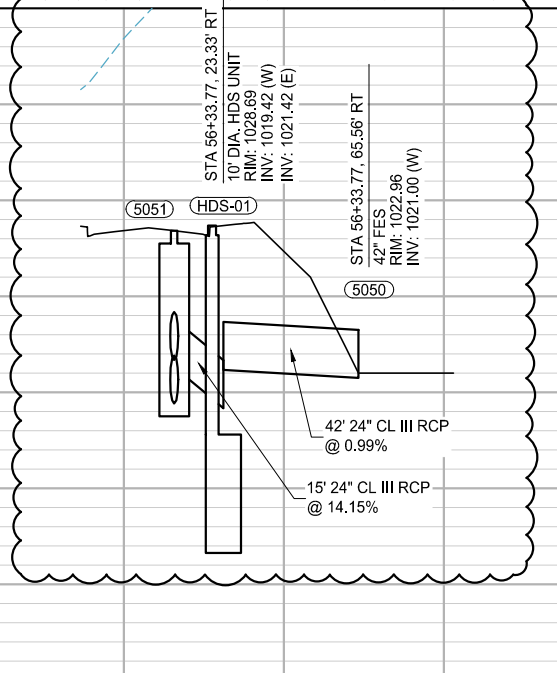
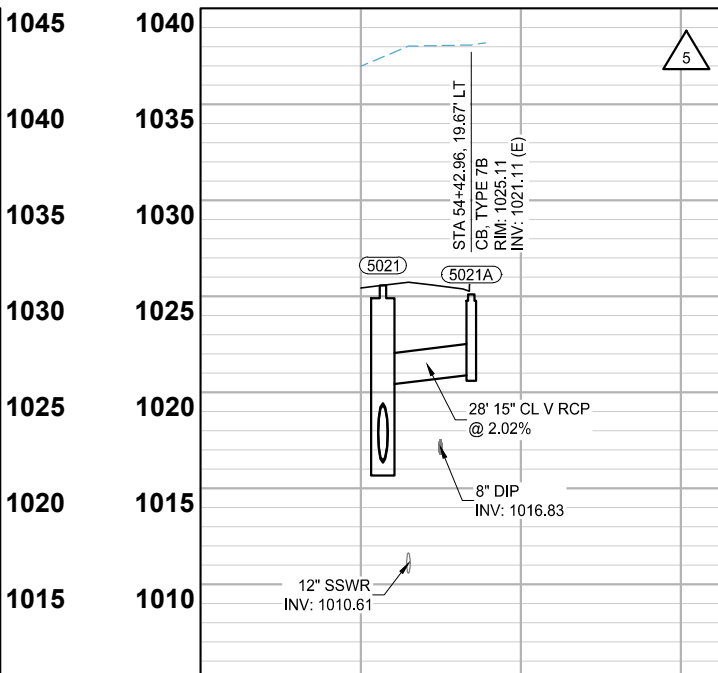
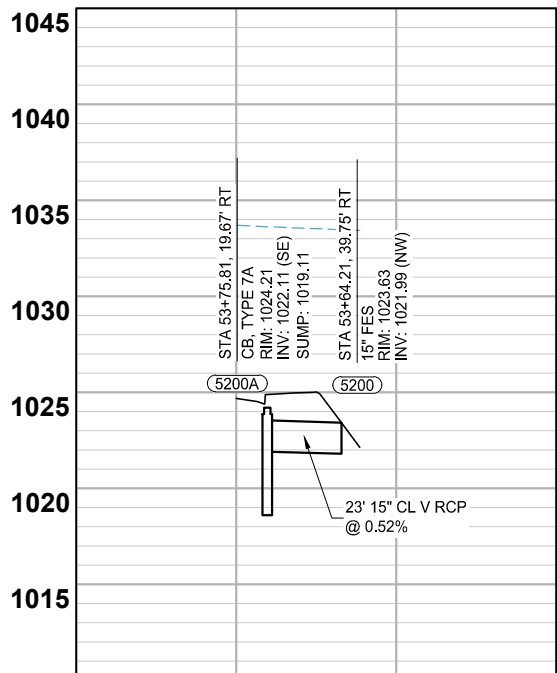
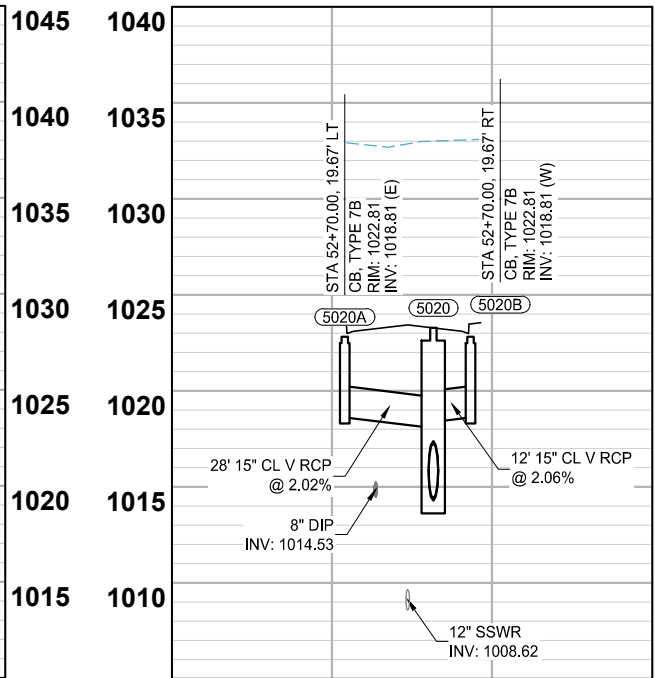
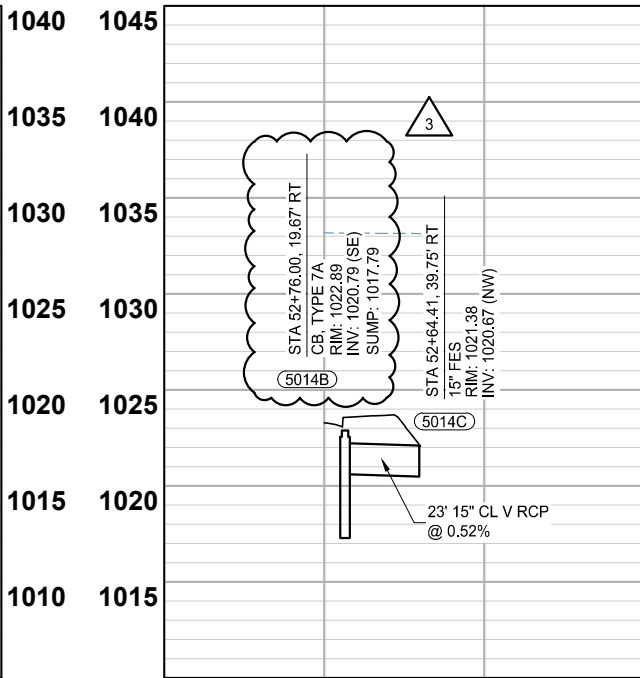
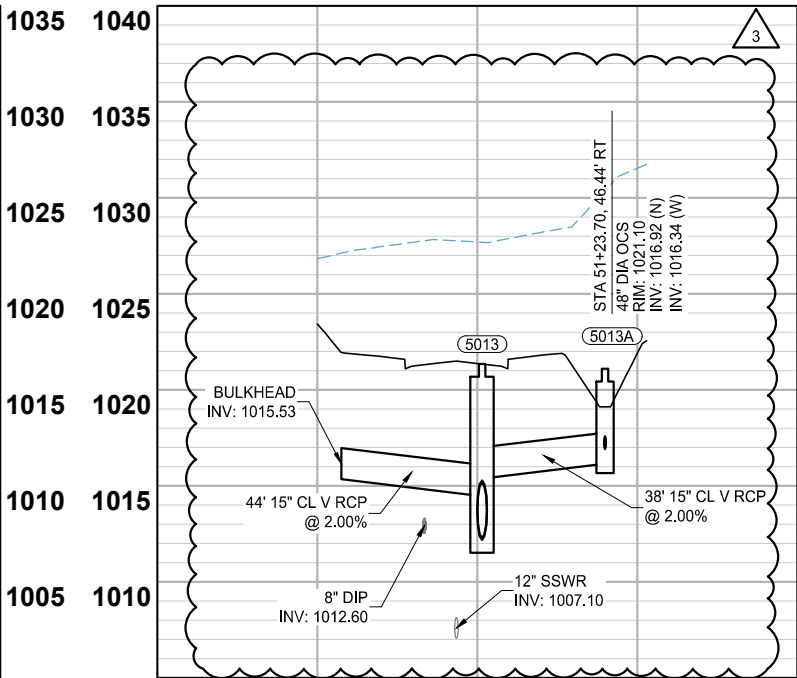
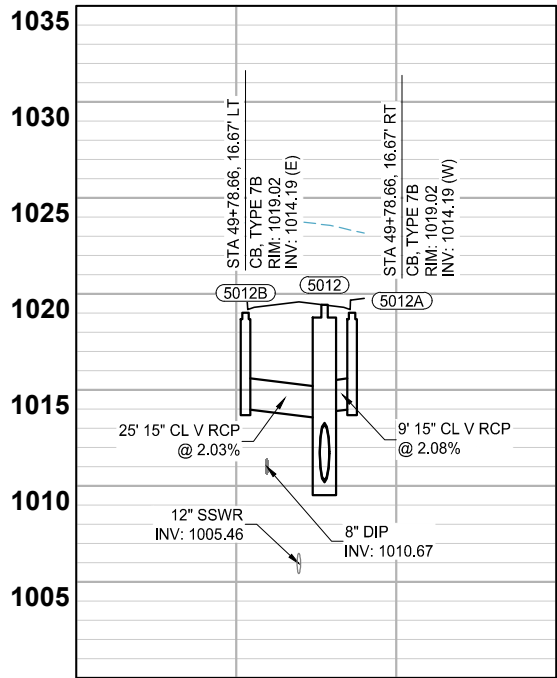
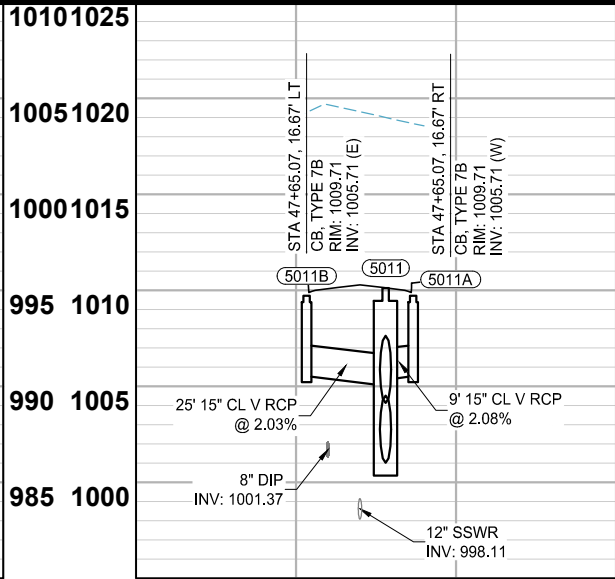
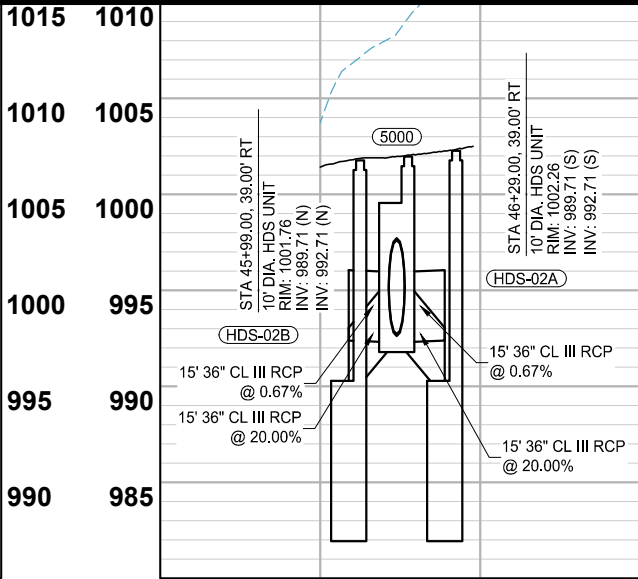
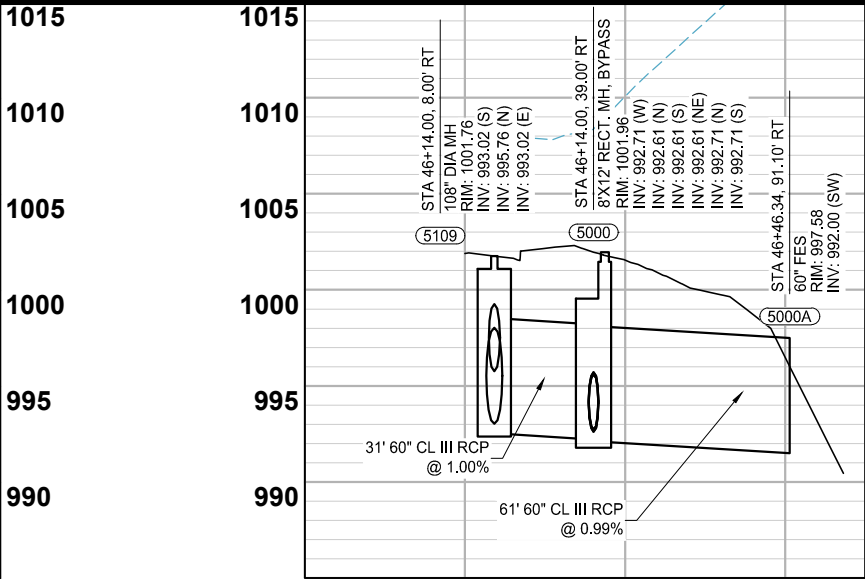
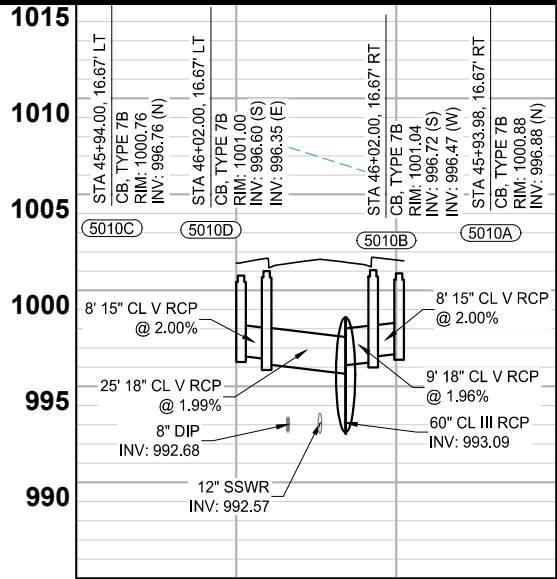
STORM SEWER CONSTRUCTION

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.
013987-000

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

REVISIONS		
NO.	DATE	DESCRIPTION
1	01/30/2024	ADDENDUM NO. 1
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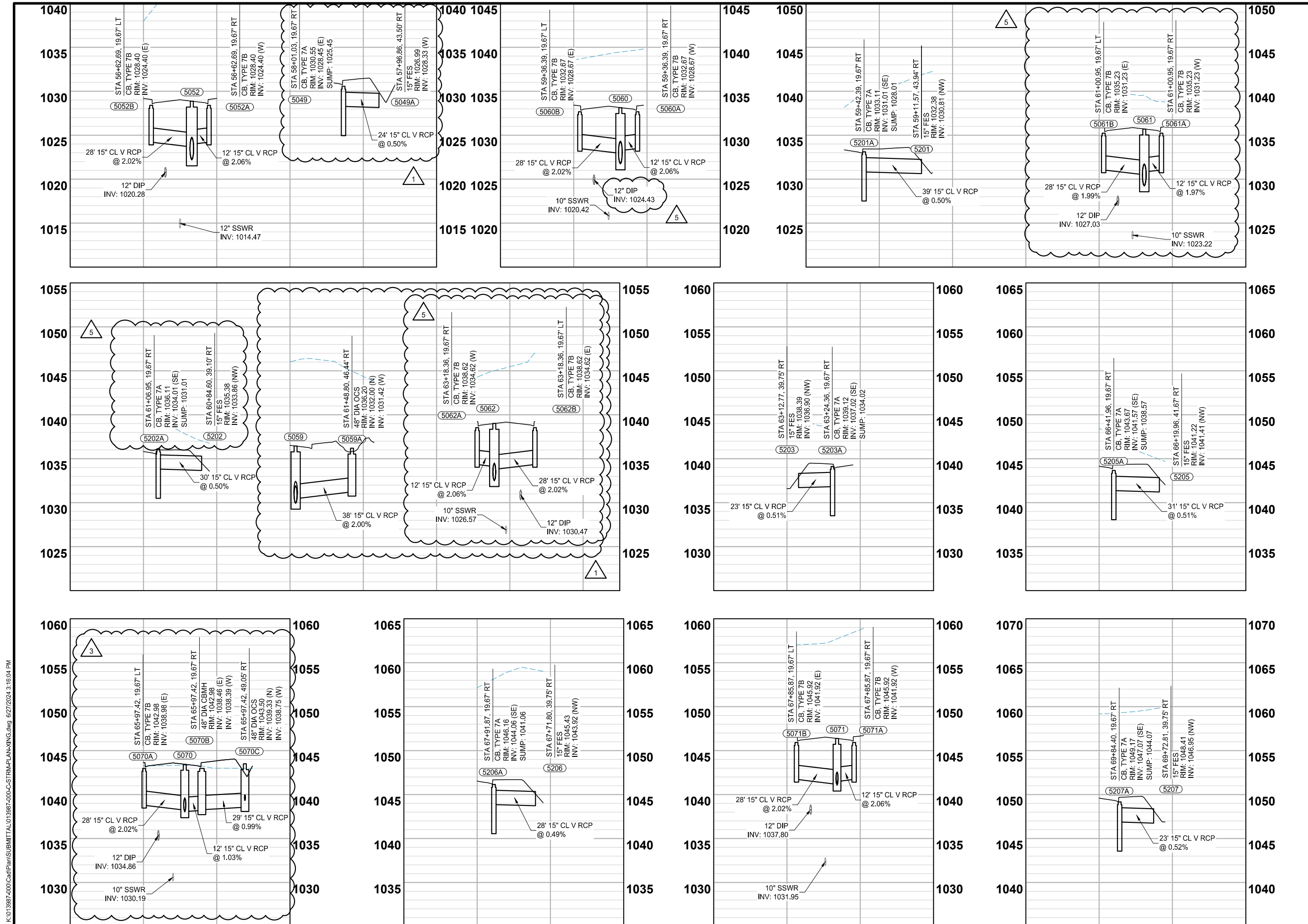
PAUL HORNBY, P.E.
DATE: 03/29/2024 LIC. NO: 23359

STORM SEWER
CONSTRUCTION

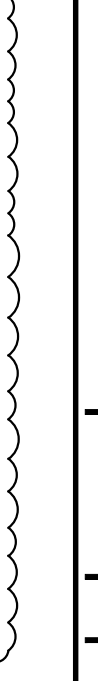
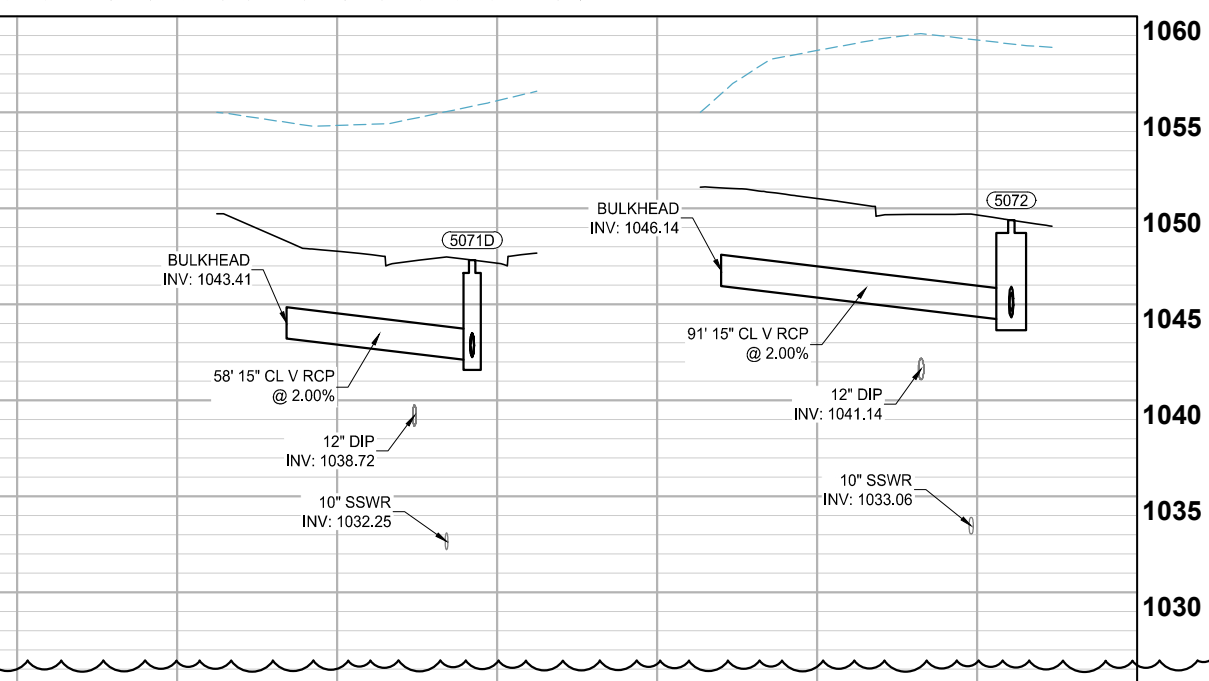
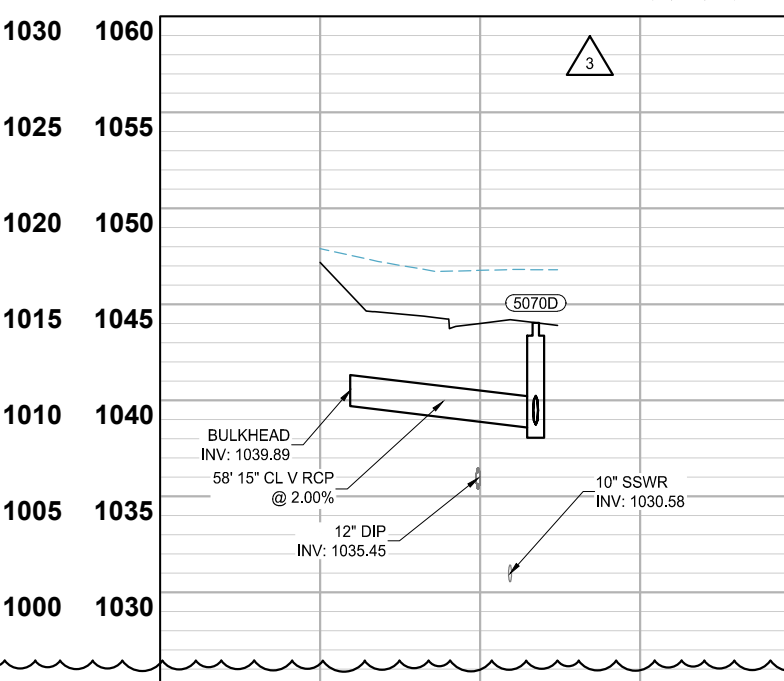
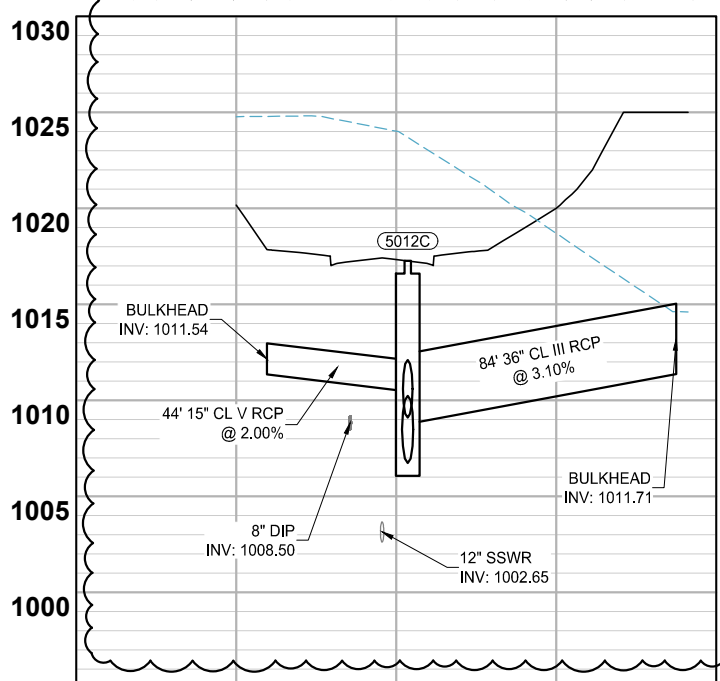
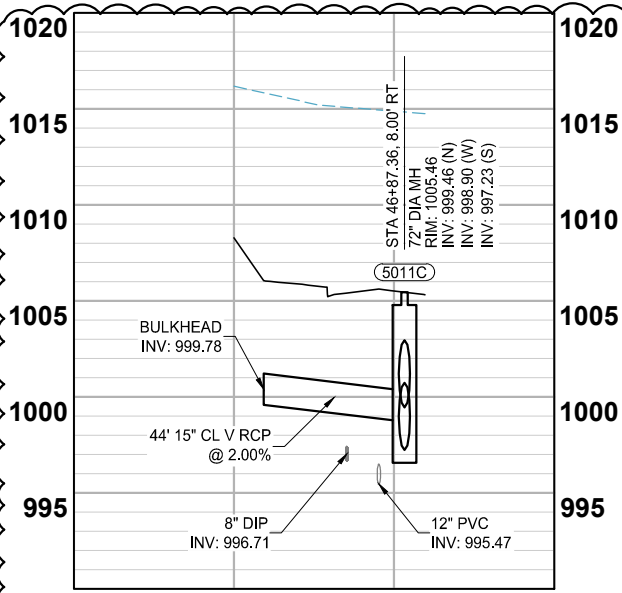
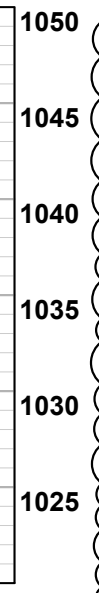
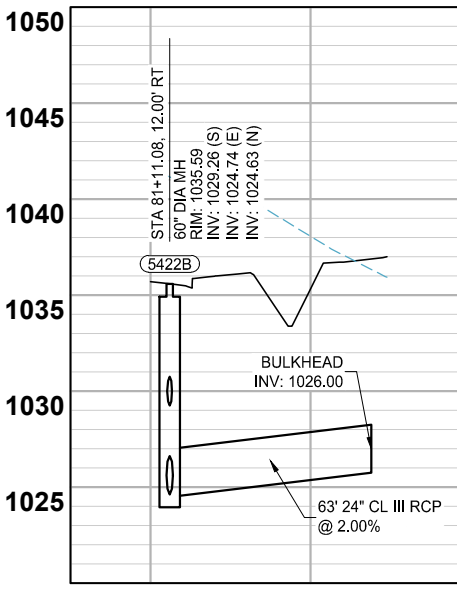
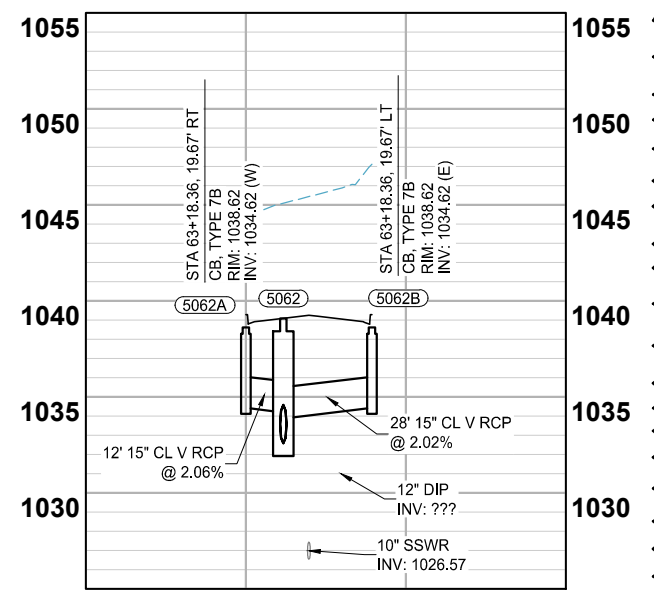
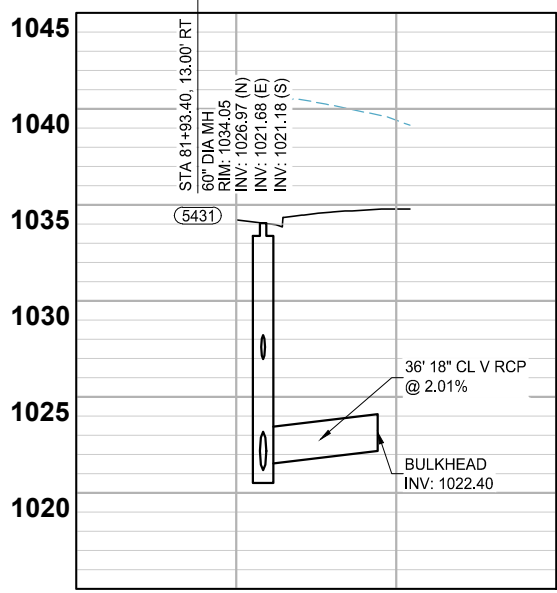
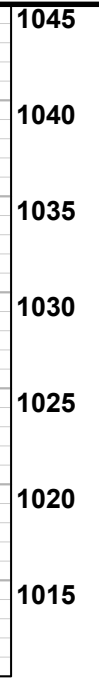
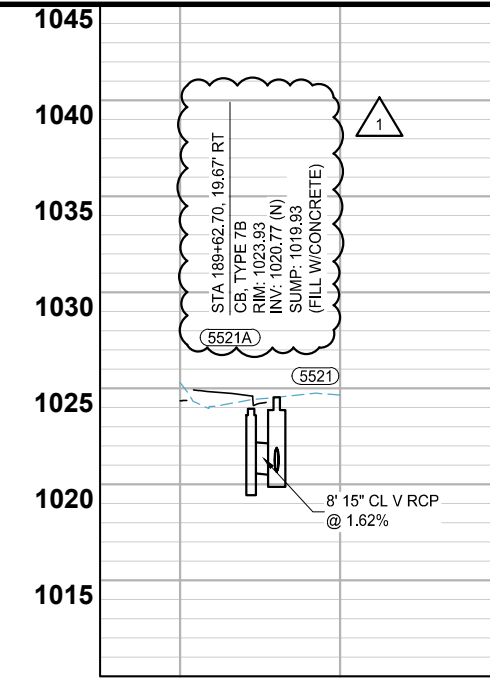
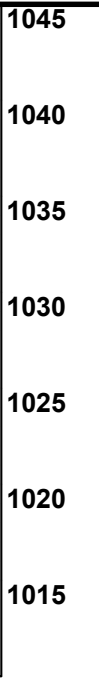
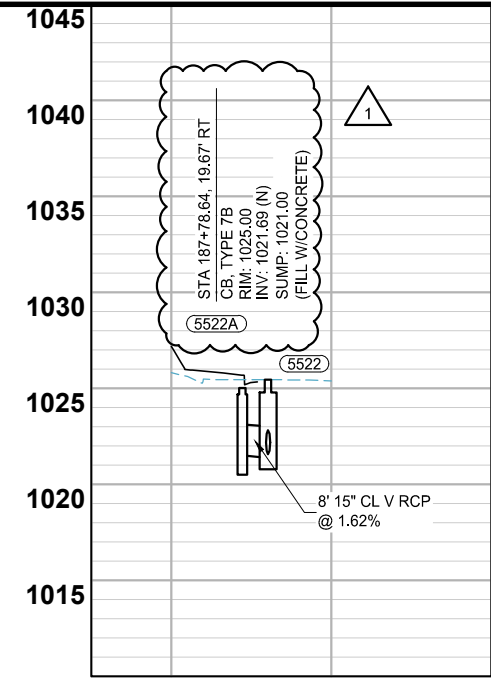
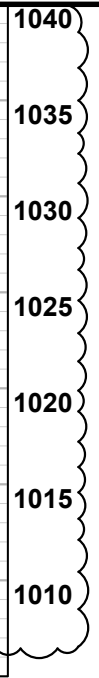
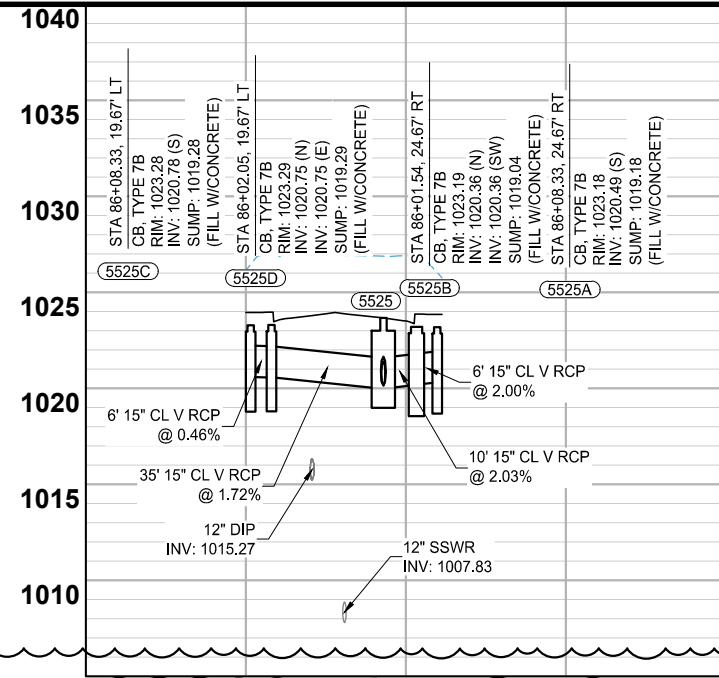
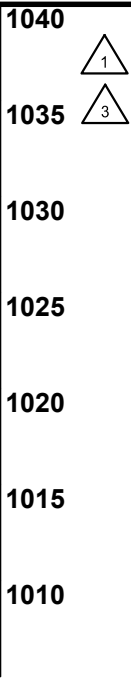
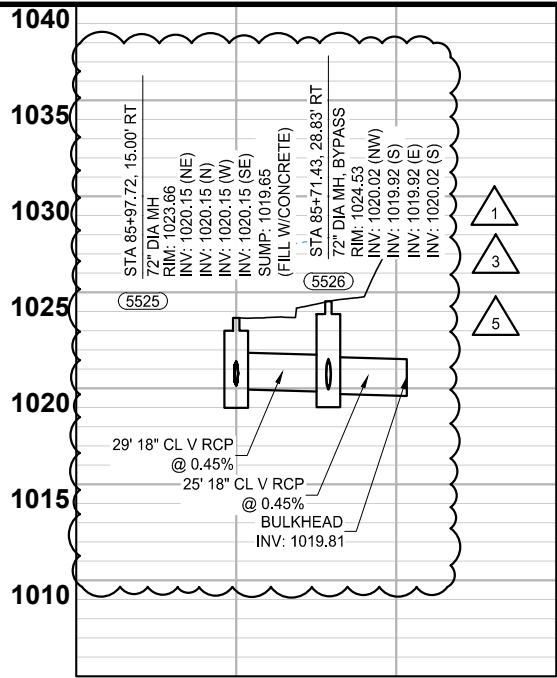
BID PACKAGE NO. 2
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SAINT PAUL, MINNESOTA

Saint Paul
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Suite 240
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Phone 612-224-5686

WSB PROJECT NO.
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wsb

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

NO.	DATE	DESCRIPTION
1	01/30/2024	ADDENDUM NO. 1
3	03/29/2024	PLAN REVISIONS
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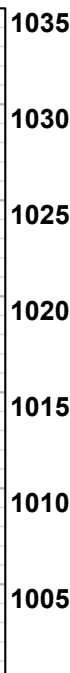
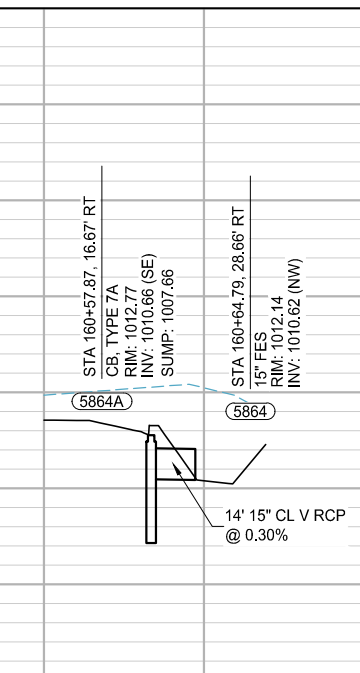
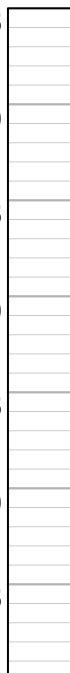
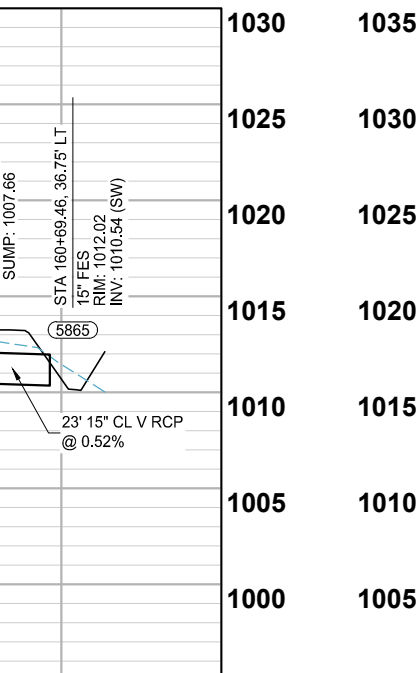
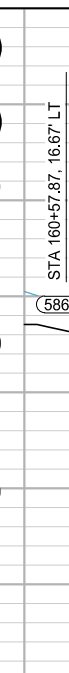
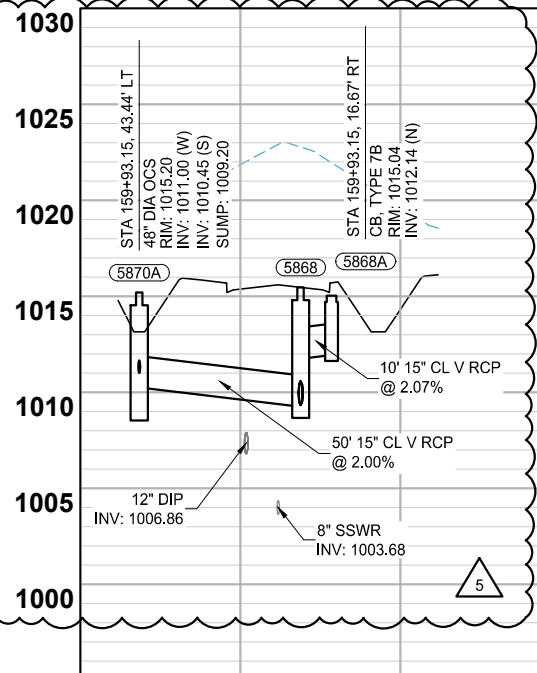
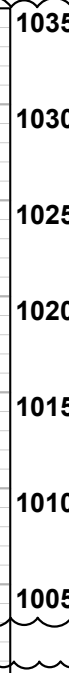
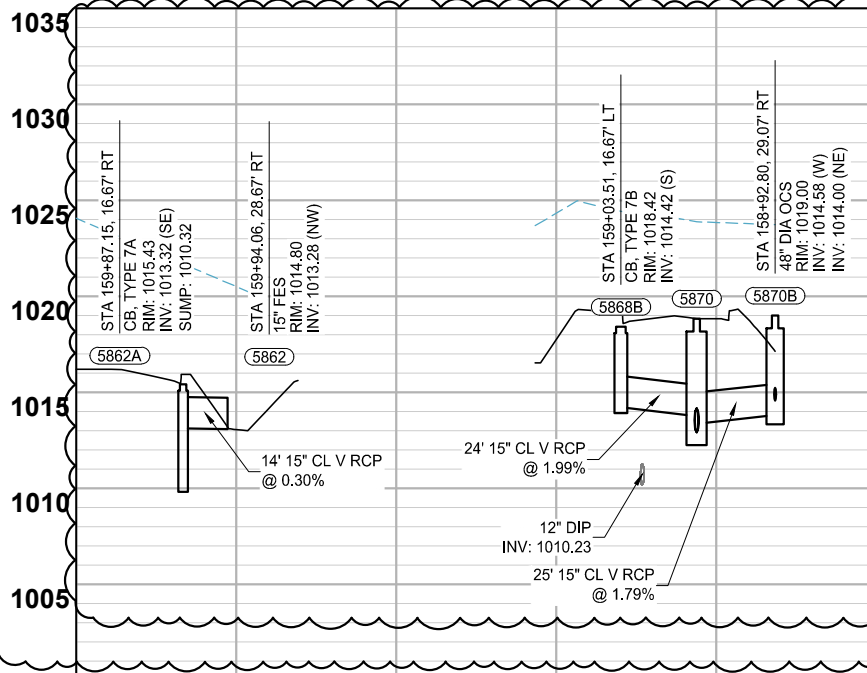
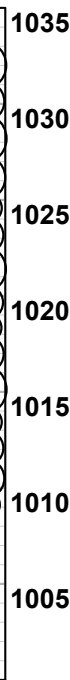
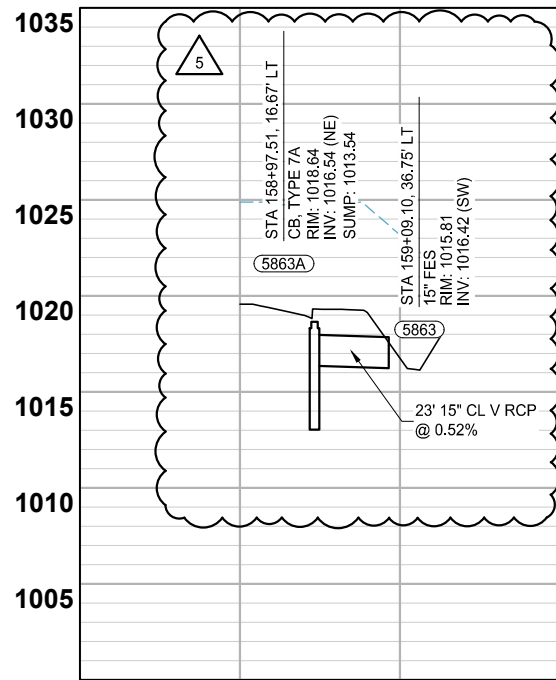
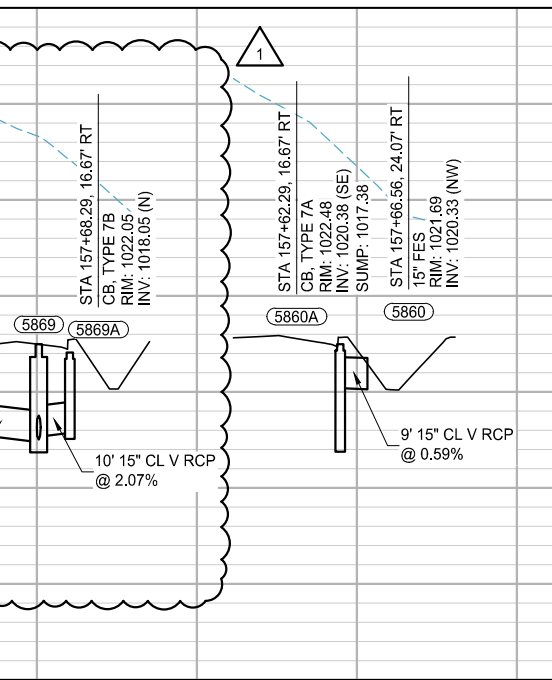
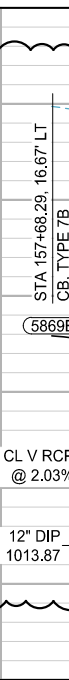
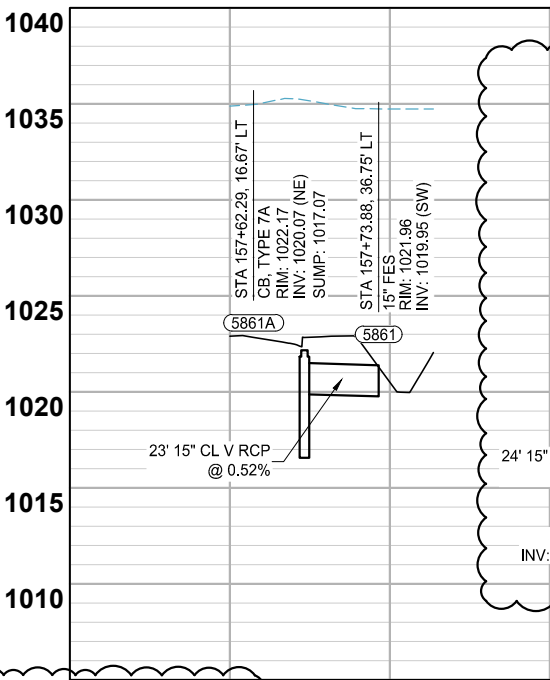
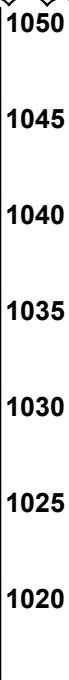
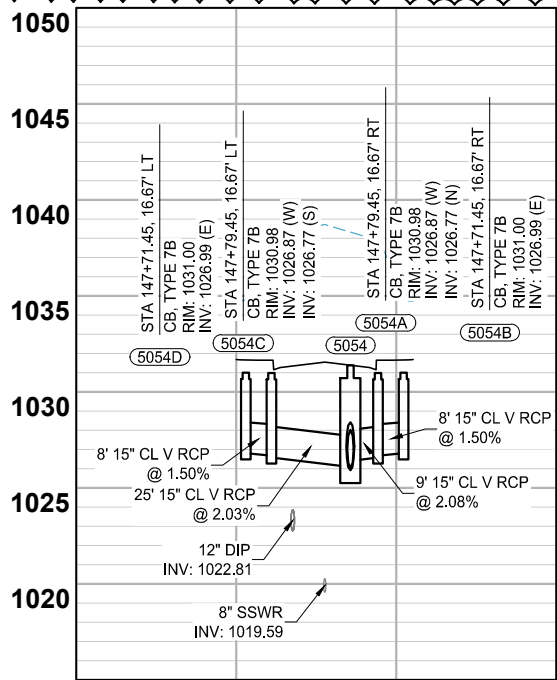
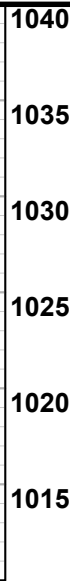
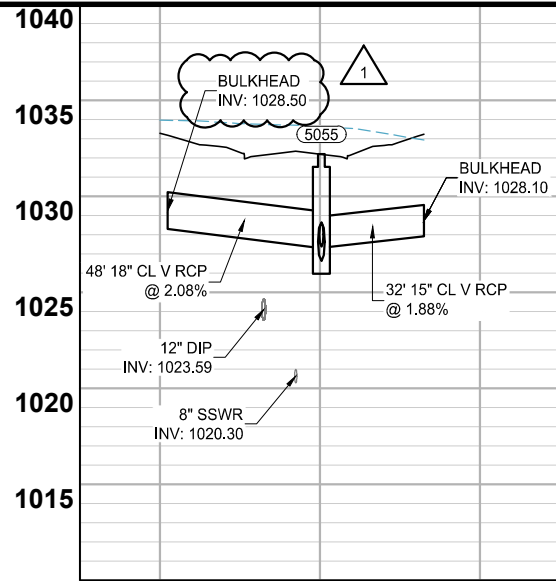
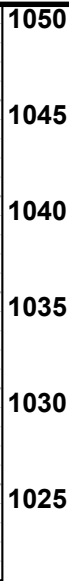
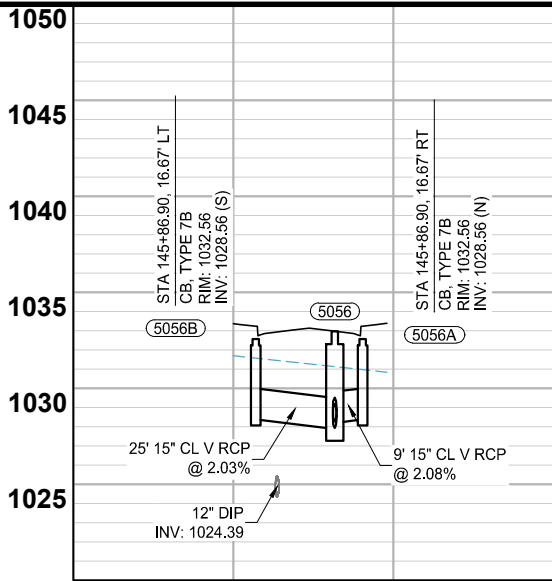
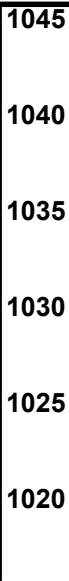
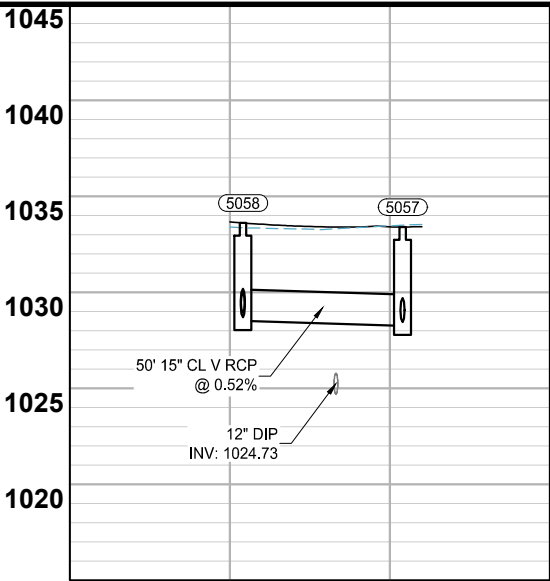
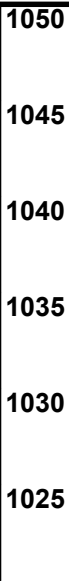
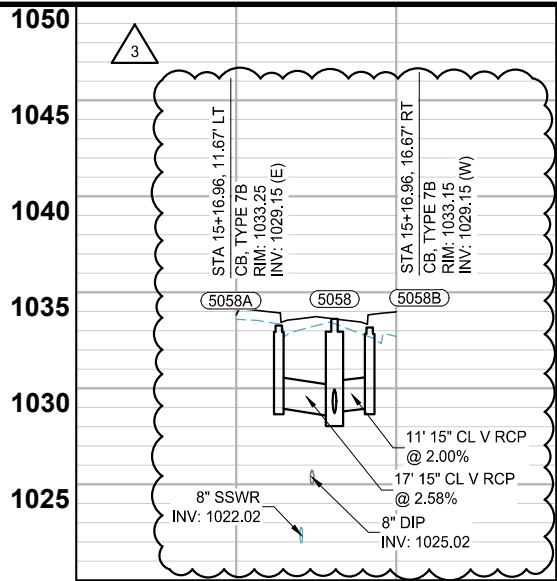
STORM SEWER
CONSTRUCTION

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.
013987-000

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

REVISIONS

NO.	DATE	DESCRIPTION
1	01/30/2024	ADDENDUM NO. 1
3	03/29/2024	PLAN REVISIONS
5	06/26/2024	REVISION 5

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

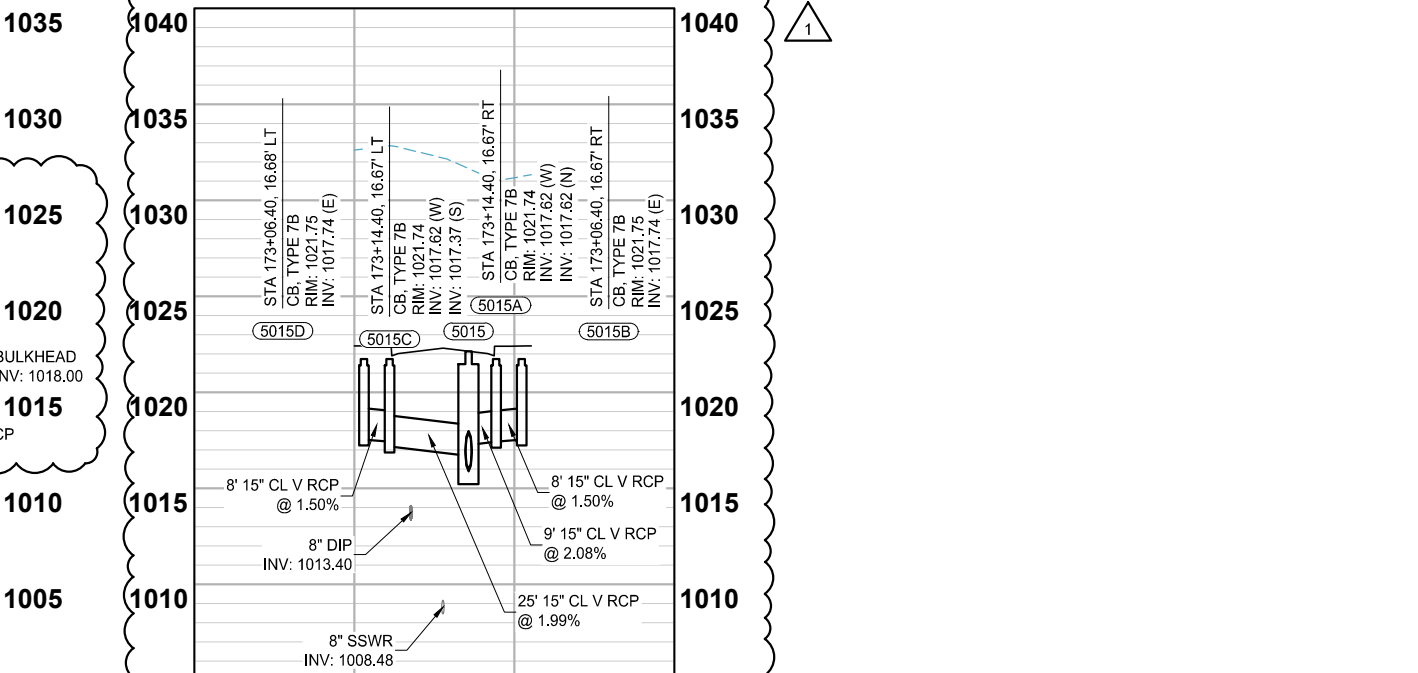
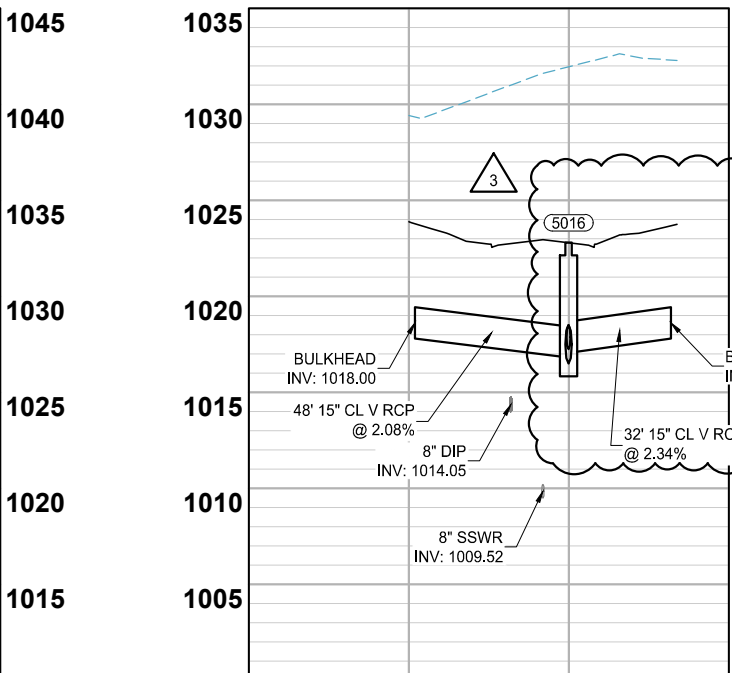
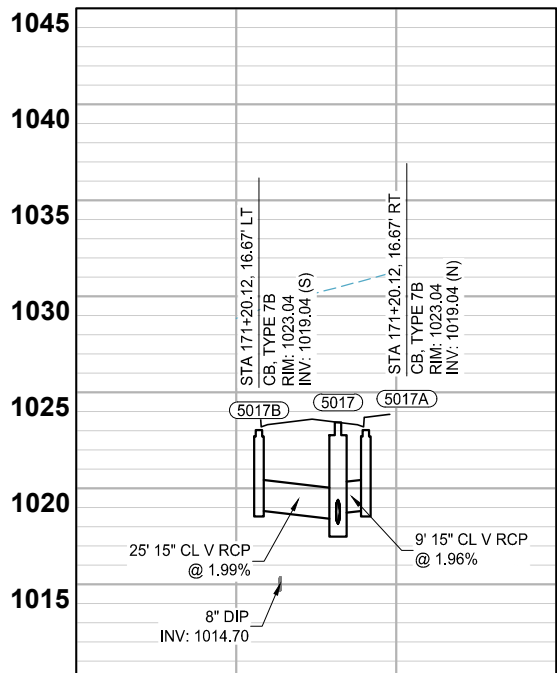
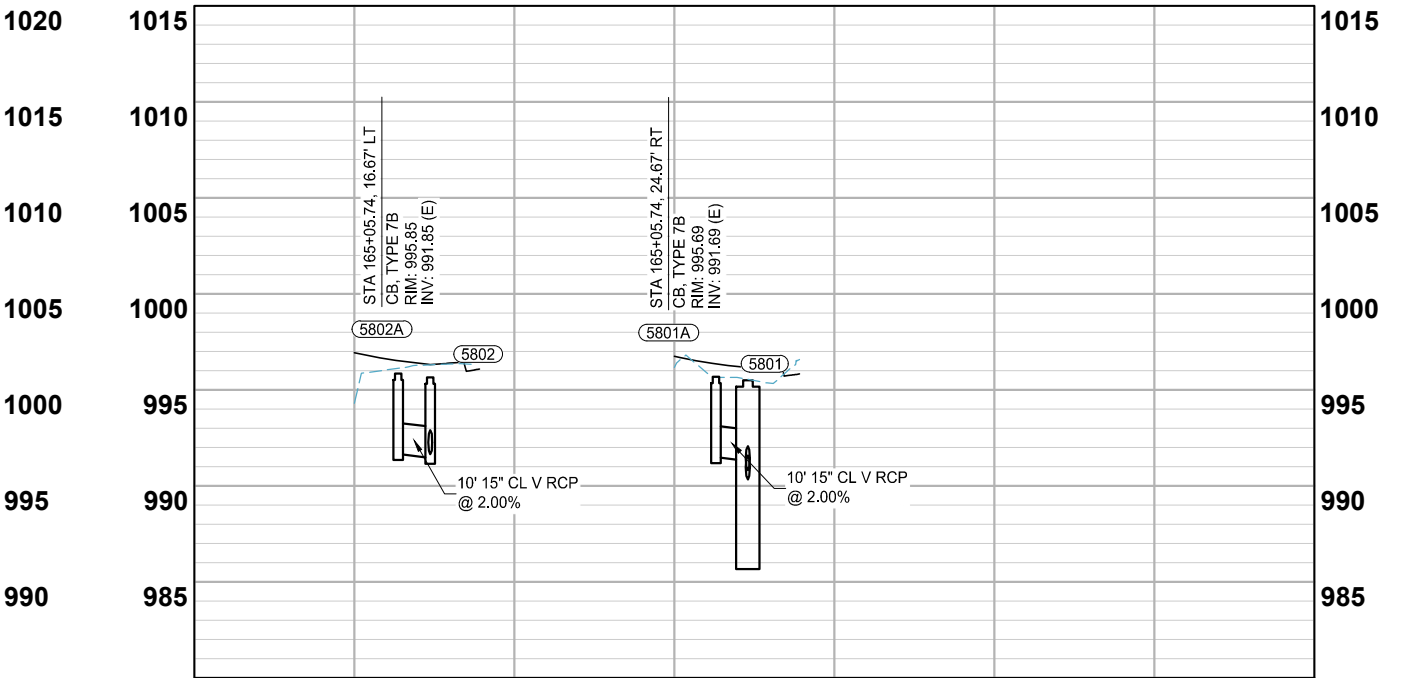
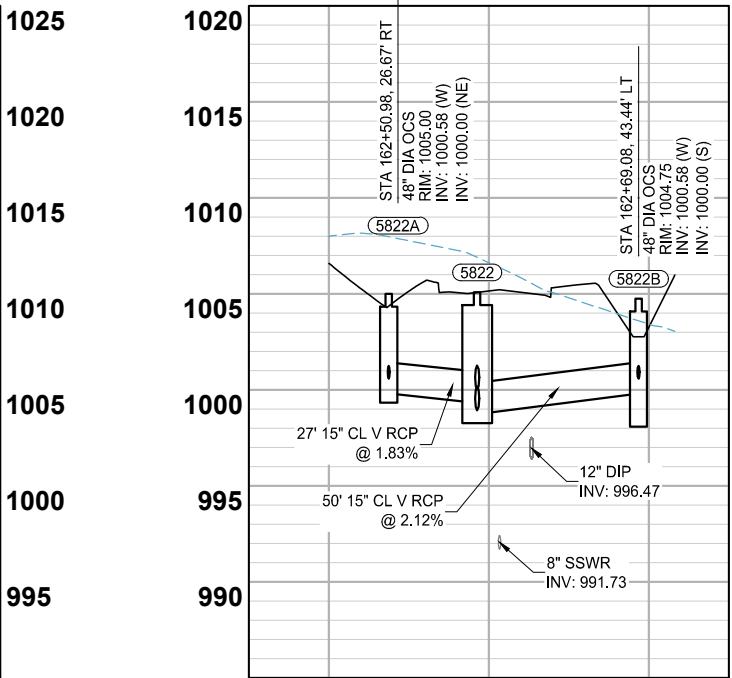
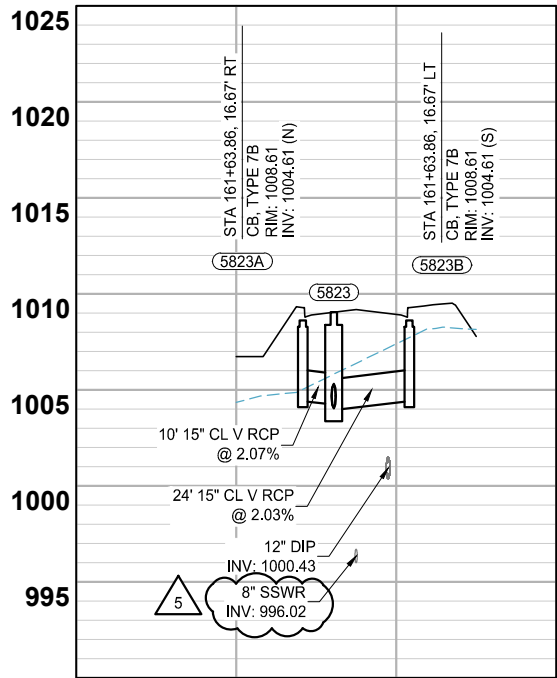
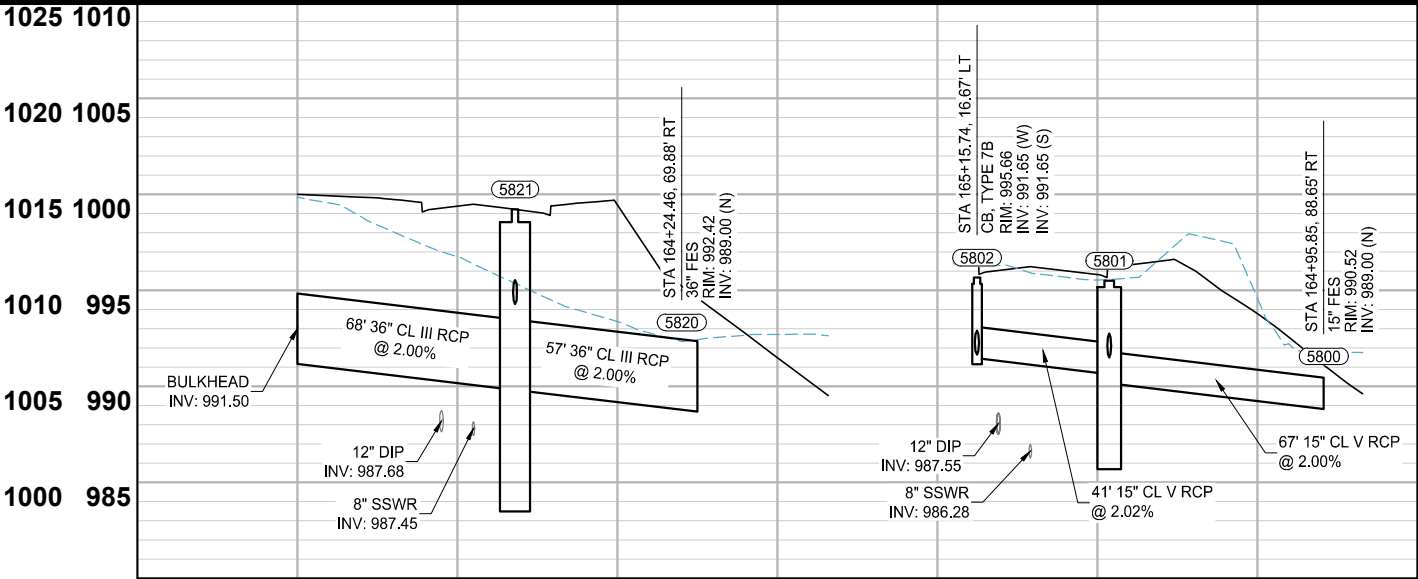
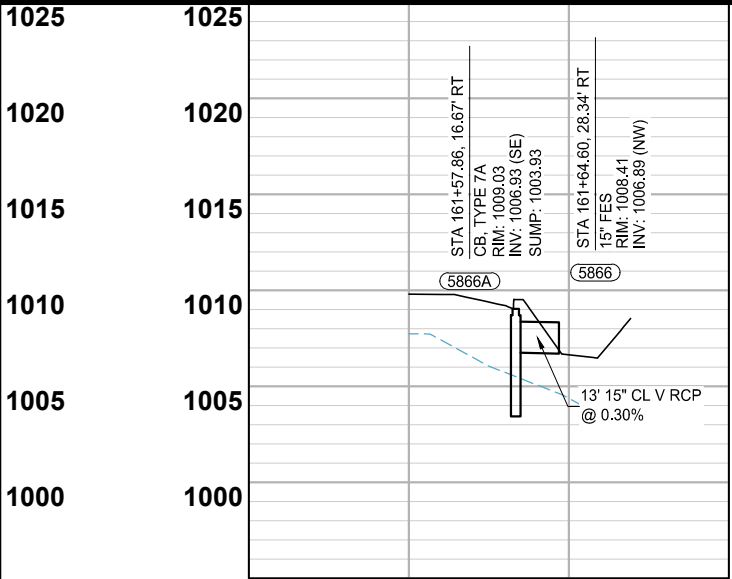
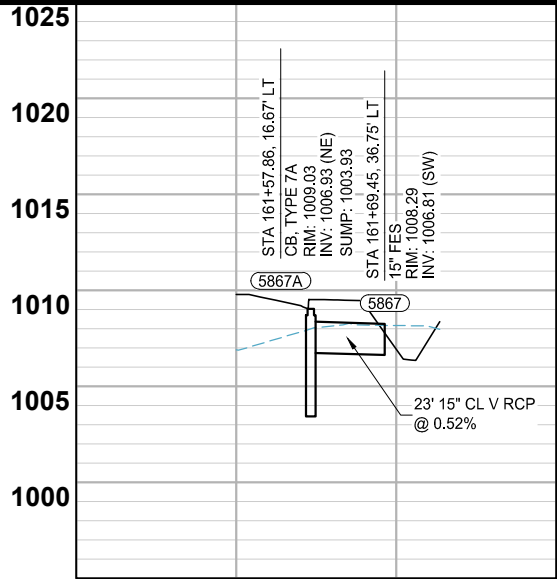
STORM SEWER CONSTRUCTION

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

REVISIONS		NO.	DATE	DESCRIPTION
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