

CONSTRUCTION PLANS FOR: IMPROVEMENT PROJECT 25-07 & 25-26 2025 BLAINE SANITARY SEWER REPAIRS PROJECT

PROJECT LOCATION MAP

LEGEND

EXISTING

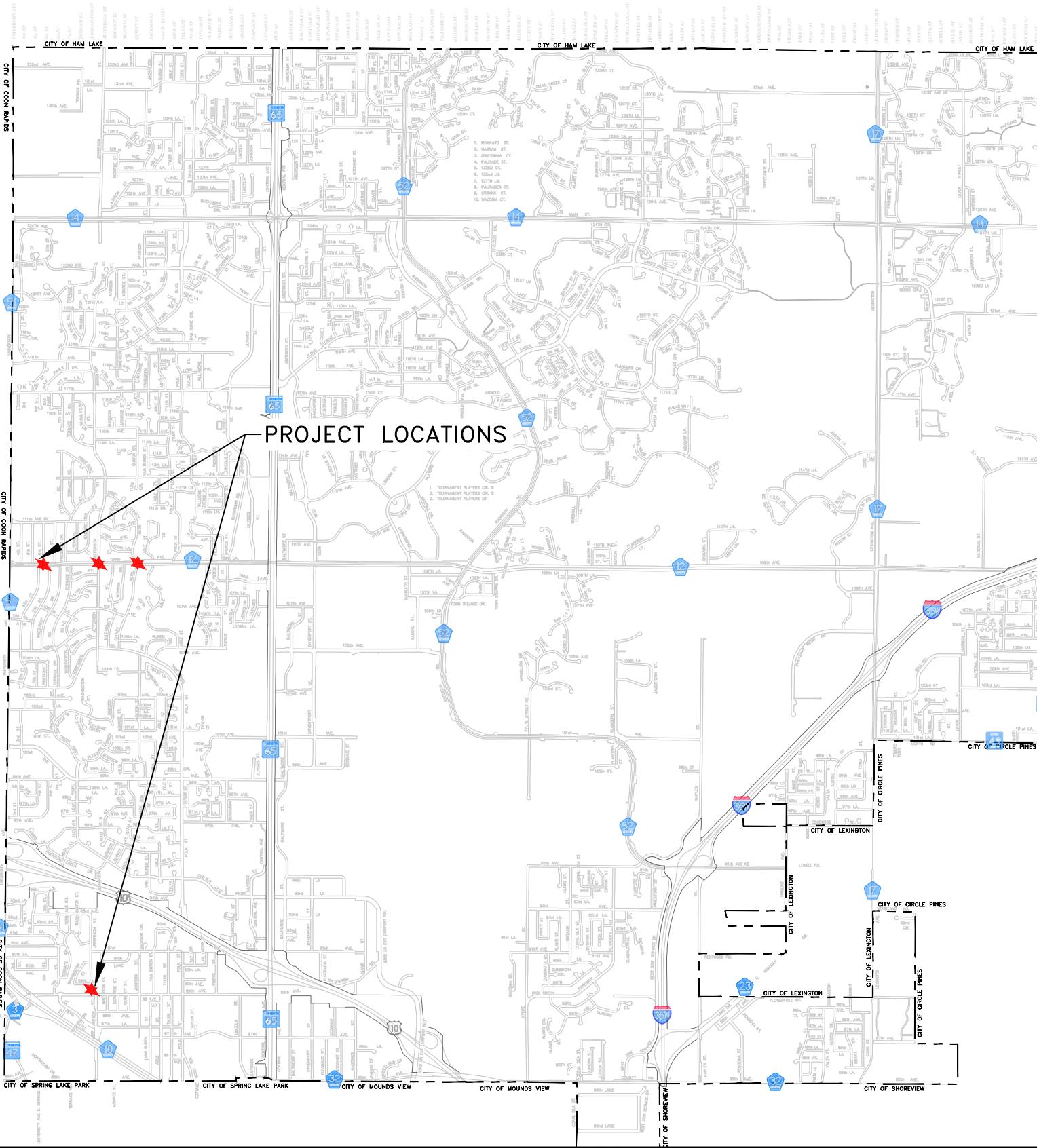
- >—>—> ① STORM SEWER & MANHOLE
- > ⑥ SANITARY SEWER & MANHOLE
- >—>—> WATERMAIN, HYDRANT, VALVE & MANHOLE
- >—>—> CULVERT
- >—>—> BULKHEAD
- >—>—> UNDERGROUND TELEPHONE LINE
- >—>—> TELEPHONE MANHOLE
- >—>—> UNDERGROUND ELECTRIC LINE
- >—>—> ELECTRIC MANHOLE
- >—>—> GAS MAIN & VALVE
- >—>—> STREET LIGHT
- >—>—> MAILBOX
- >—>—> TRAFFIC SIGN
- >—>—> STREET SIGN
- >—>—> POWER POLE W/ GUY WIRE
- >—>—> DECIDUOUS TREE
- >—>—> CONIFEROUS TREE
- >—>—> BUSH - SHRUB
- >—>—> HEDGE
- >—>—> WOODED AREA
- >—>—> FENCE
- >—>—> GUARD RAIL
- >—>—> DITCH
- >—>—> TRAFFIC SIGNAL POLE
- >—>—> HANDHOLE
- >—>—> CONCRETE CURB & GUTTER
- >—>—> BITUMINOUS CURB
- >—>—> CONCRETE PAVEMENT
- >—>—> BUILDING
- >—>—> SECTION LINE
- >—>—> QUARTER LINE
- >—>—> SIXTEENTH LINE
- >—>—> RIGHT OF WAY LINE

PROPOSED

- 15+00 CONSTRUCTION LIMITS
- >—>—> CONSTRUCTION CENTERLINE
- >—>—> RIGHT OF WAY LINE
- >—>—> ① STORM SEWER & MANHOLE
- >—>—> SANITARY SEWER & MANHOLE
- >—>—> WATERMAIN, HYDRANT, VALVE & MANHOLE
- >—>—> CULVERT
- OR CATCH BASIN
- >—>—> BULKHEAD
- >—>—> CONCRETE CURB & GUTTER

NOTES:

1. THE EXACT LOCATION OF UNDERGROUND UTILITIES SUCH AS GAS, TELEPHONE, FIBEROPTIC, ELECTRIC, CABLE TV AND PIPELINES ARE UNKNOWN. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL BEFORE COMMENCING AND CONSTRUCTION OR EXCAVATION. GOPHER STATE ONE CALL SYSTEM.....1-800-252-166
2. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
3. ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" - CURRENT EDITION.
4. THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE 2020 EDITION OF THE MATERIALS LAB SUPPLEMENTAL FOR CONSTRUCTION SHALL GOVERN EXCEPT AS MODIFIED BY THE SPECIFICATIONS FOR THIS PROJECT.



ENGINEERING DEPARTMENT
10801 Town Square Dr NE Blaine, Minnesota 55449
Phone (763) 785-6172

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.

BRENT LARSON, PE

Date: 6/12/25 Minnesota Lic. No. 45850

8/5/25 COUNTY ROW PERMIT REVISIONS

INDEX TO PLANS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	QUANTITIES, DETAILS AND NOTES
3	109TH AVENUE MANHOLE LININGS
4-5	6TH STREET AT 109TH AVENUE (25-07)
6-7	JEFFERSON STREET AT 89TH AVENUE (25-26)

PROJECT LOCATION

STATEMENT OF ESTIMATED QUANTITIES

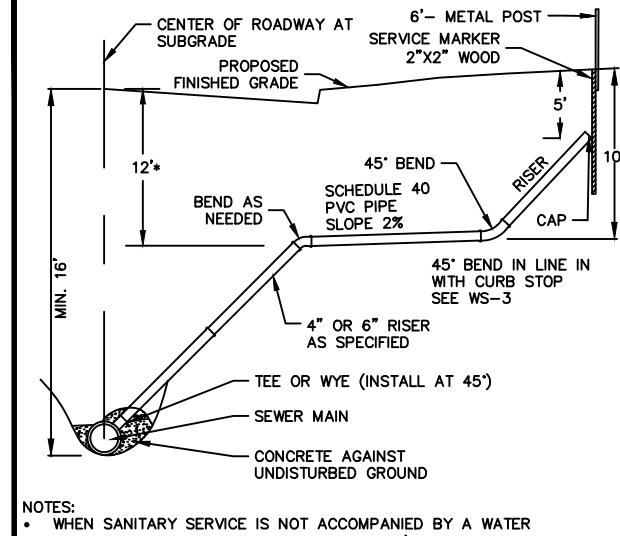
ITEM NO.	SPEC. REF.	DESCRIPTION	UNIT	TOTAL ESTIMATED QUANTITY
BID SCHEDULE A - 6TH STREET @ 109TH AVENUE (25-07)				
1	2021.501	MOBILIZATION	LS	1
2	2011.601	CONSTRUCTION SURVEYING	LS	1
3	2104.504	REMOVE BITUMINOUS	SY	207
4	2104.504	REMOVE SANITARY SEWER PIPE AND BENDS	LF	54
5	2105.601	DEWATERING	LS	1
6	2211.509	AGGREGATE BASE CLASS 5 (LV)	CY	29
7	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,C)	TON	51
8	2503.503	8" PVC SDR 26 PIPE	LF	54
9	2506.502	CONST SANITARY STRUCTURE - SPECIAL	EACH	1
10	2563.901	TRAFFIC CONTROL	LS	2
11	2573.502	STORM DRAIN INLET PROTECTION	EACH	2
BID SCHEDULE B - JEFFERSON STREET @ 89TH AVENUE (25-26)				
12	2021.501	MOBILIZATION	LS	1
13	2011.601	CONSTRUCTION SURVEYING	LS	1
14	2104.504	REMOVE CONCRETE CURB AND GUTTER	LF	26
15	2104.504	REMOVE BITUMINOUS	SY	43
16	2104.504	REMOVE SANITARY SEWER PIPE AND BENDS	LF	16
17	2105.601	DEWATERING	LS	1
18	2211.509	AGGREGATE BASE CLASS 5 (LV)	CY	7
19	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,C)	TON	11
20	2531.503	CONCRETE CURB AND GUTTER DESIGN B618	LF	26
21	2503.503	4" SCHEDULE 40 PIPE	LF	16
22	2563.901	TRAFFIC CONTROL	LS	1
23	2573.502	STORM DRAIN INLET PROTECTION	EACH	2
24	2575.501	TURF ESTABLISHMENT	LS	1

REFERENCE NOTES:

1. NO CLEARING AND GRUBBING IS ANTICIPATED. ONLY TREES AND/OR BUSHES WITHIN THE RIGHT-OF-WAY AND NECESSARY TO INSTALL PIPE AS SHOWN IN THE PLANS SHALL BE REMOVED OR TRIMMED. TREES ON PRIVATE PROPERTY SHALL BE PROTECTED. THIS SHALL BE INCIDENTAL TO THE PROJECT.
2. BITUMINOUS AND CONCRETE SHALL BE SAW CUT TO FULL DEPTH. THIS SHALL BE INCIDENTAL TO THE REMOVAL ITEMS.
3. SANITARY MANHOLE SHALL HAVE A NEENAH R-1733 FRAME AND CASTING.
4. AGGREGATE BASE SHALL BE SALVAGED AND REINSTALLED TO THE EXTENT POSSIBLE. THIS SHALL BE INCIDENTAL. ADDITIONAL CLASS 5 AGGREGATE SHALL BE IMPORTED. AGGREGATE BASE SHALL BE PLACED AND COMPAKTED AS NECESSARY TO MATCH THE EXISTING STREET SECTIONS. ADDITIONAL CLASS 5 AGGREGATE BASE SHALL BE PAID BY THE CUBIC YARD LOOSE VOLUME (LV). ALL AGGREGATE BASE SHALL BE COMPACTED TO 100% SPECIFIED DENSITY.
5. BITUMINOUS MIXTURE SHALL BE TYPE SP 12.5 WEAR COURSE (SPWEB440C). SEE NOTES ON EACH SHEET FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL COMPLETE THE ANOKA COUNTY HIGHWAY DEPARTMENT RIGHT-OF-WAY PERMIT AND POST ALL REQUIRED ESCROWS FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY.
7. TURF ESTABLISHMENT SHALL INCLUDE FINE GRADING, SOIL PREPARATION, INCLUDING PLACING STRIPPED TOPSOIL, AND SODDING IN ALL DISTURBED AREAS TO MATCH THE NEW SURFACE TO EXISTING GROUND. TURF ESTABLISHMENT ITEMS SHALL BE AS FOLLOWS:
 - 7.1. RESTORATION SHALL BE COMPLETED WITHIN 24 HOURS OF COMPLETION OF THE EARTH DISTURBING ACTIVITIES.

GENERAL NOTES:

1. FOR THE WORK ON 6TH STREET, THE CONTRACTOR SHALL COMPLETE THE WORK PRIOR TO ANOKA COUNTY'S OVERLAY PROJECT OF 109TH AVENUE (CSAH 12). ANTICIPATED START DATE OF THE COUNTY PROJECT IS THE END OF SEPTEMBER 2025.
2. ALL CONSTRUCTION SHALL BE PER BLAINE SPECIFICATIONS, SPECIAL CONDITIONS OF THE CONTRACT, AND MNDOT STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED IN THESE PLANS.
3. A PRE-CONSTRUCTION MEETING SHALL BE HELD A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
4. ALL PERIMETER SEDIMENT AND EROSION CONTROL SHALL BE IN PLACE PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO COMMENCING ANY EXCAVATION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SURVEYING NECESSARY TO COMPLETE THE PROJECT AS DESIGNED.
7. SOILS AND STOCKPILE SHALL BE STABILIZED WITHIN 7 DAYS (MAXIMUM) OF INACTIVITY UNLESS OTHERWISE STATED IN THE PLANS.
8. CONTRACTOR SHALL SWEEP STREETS BY THE END OF EACH DAY WITH A PICKUP BROOM WHERE SEDIMENT MAY HAVE TRANSPORTED.



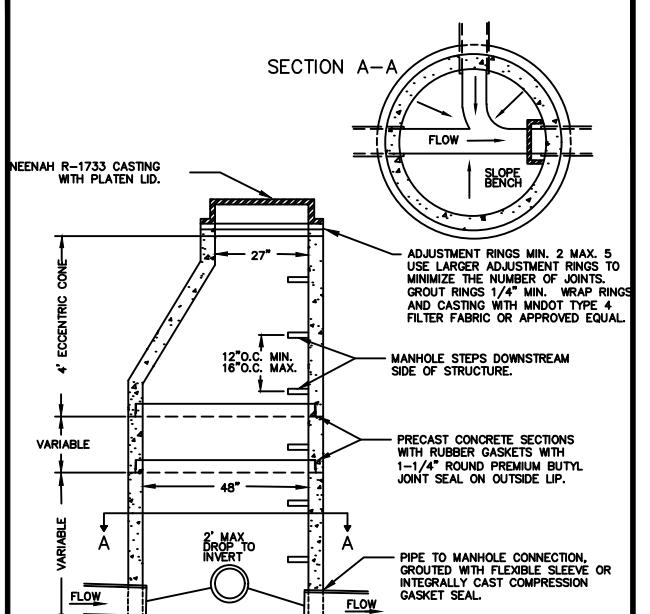
NOTES:

- WHEN SANITARY SERVICE IS NOT ACCOMPANIED BY A WATER SERVICE IN THE SAME TRENCH, INSTALL A 6' POST NEXT TO THE 2"x2" MARKER AND PAINT THE TOP 6" GREEN, FOR VACANT LOTS, USE 6' STEEL FENCE POST.
- UNLESS OTHERWISE INDICATED ON PLANS NO BEND MAY BE USED OTHER THAN THOSE SHOWN ON DETAIL SOLVENT WELD ALL JOINTS * WILL BE ADJUSTED IN FIELD BY ENGINEER TO SERVE EXISTING STRUCTURES IF DISTANCE FROM MAIN TO STRUCTURE IS GREATER THAN 100', A CLEAN OUT MUST BE INSTALLED AT 100' INTERVALS, SEE DETAIL SSS-4.

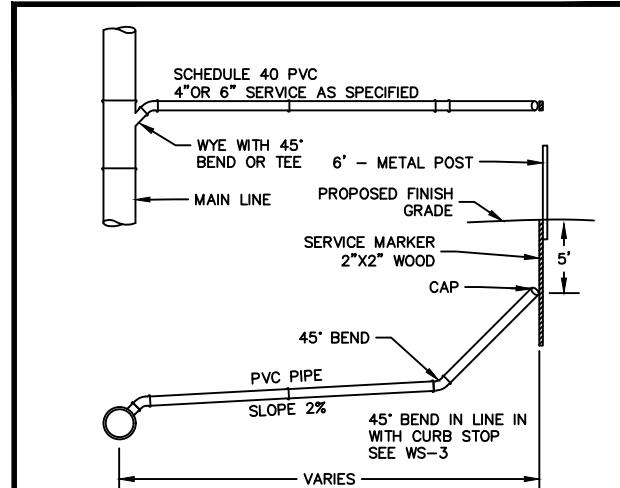
SERVICE RISER SECTION Plate No. SSS-2



2025 STANDARD DETAIL PLATE
City of Blaine - Engineering Department
10801 Town Square Drive NE, Blaine, Minnesota 55449 763-785-6172 Fax 763-785-6139



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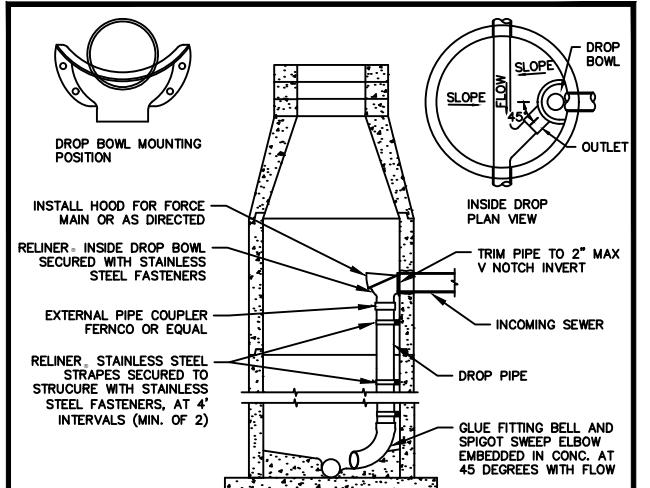
NOTES:

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- UNLESS OTHERWISE INDICATED ON PLANS NO BEND MAY BE USED OTHER THAN THOSE SHOWN ON DETAIL SOLVENT WELD ALL JOINTS ON EXISTING MAINS, SEE DETAIL SSS-1 IF DISTANCE FROM MAIN TO STRUCTURE IS GREATER THAN 100', A CLEAN OUT MUST BE INSTALLED AT 100' INTERVALS, SEE DETAIL SSS-4.

SERVICE CONNECTION Plate No. SSS-3



2025 STANDARD DETAIL PLATE
City of Blaine - Engineering Department
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INSIDE DROP MANHOLE Plate No. SSS-6



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ENGINEERING DEPARTMENT

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Date 6/12/25 Reg. No. 45850

DATE

REVISION

PROJECT NO.

DESIGN BY: BML DRAWN BY: BML

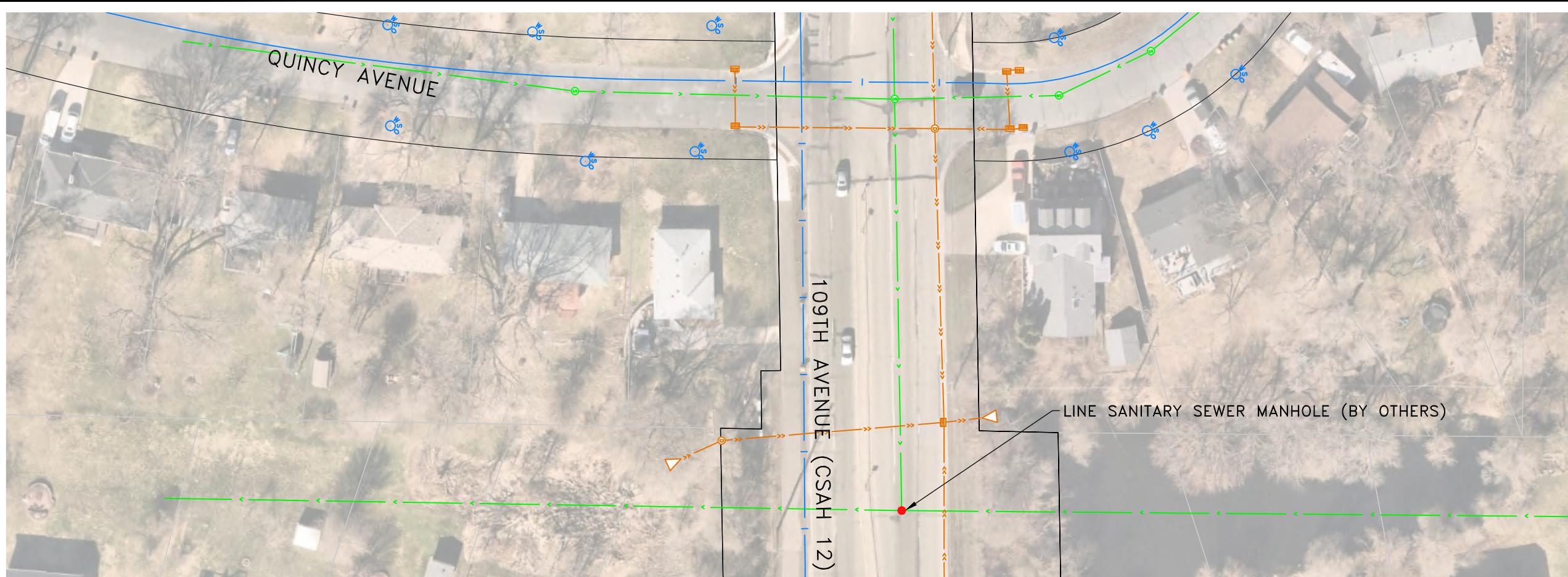
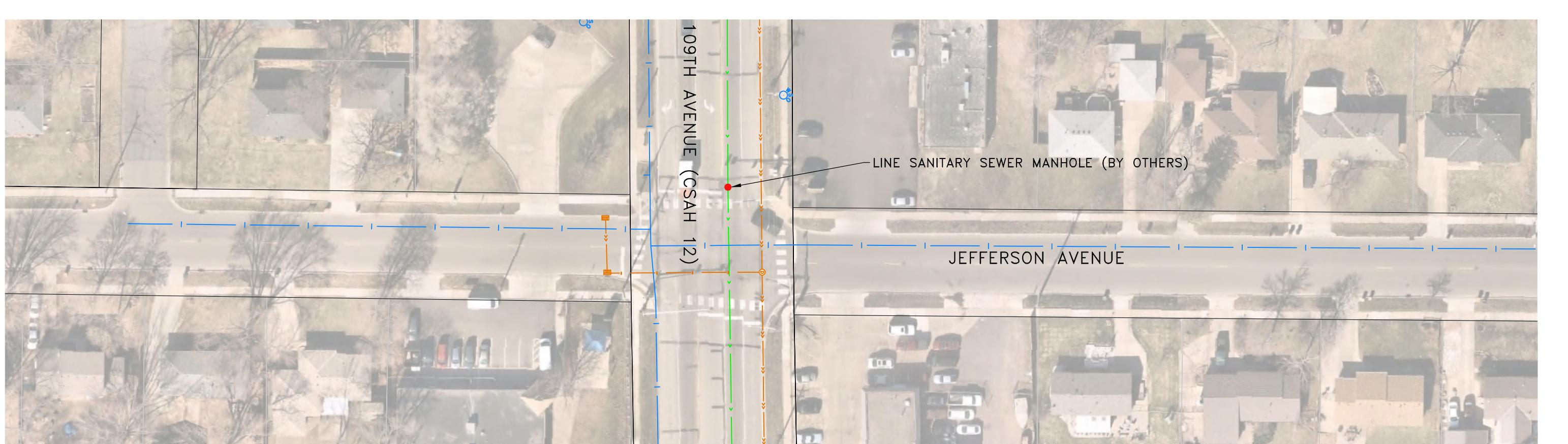
CHECKED BY: DSS APPROVED BY: DSS

AS BUILT BY:

QUANTITIES, DETAILS, AND DETAILS

CITY PROJ. NO. 25-07 & 25-26
2025 SANITARY SEWER REPAIRS PROJECT

SHEET NO. 2 OF 7 SHEETS



NOTES:

1. BY OTHERS - THIS WORK WILL BE PERFORMED SEPARATELY FROM THE PIPE REPLACEMENTS ON SHEET 4-7.
2. IT IS THE INTENTION TO PERFORM THIS WORK IN COORDINATION WITH ANOKA COUNTY'S MILL AND OVERLAY PROJECT ALONG 109TH AVENUE. THE LINING OF THE MANHOLES SHALL BE DONE UNDER THE COUNTY'S TRAFFIC CONTROL FOR THEIR 109TH AVENUE PROJECT. NO PAYMENT FOR TRAFFIC CONTROL WILL BE MADE.
3. IF THE CONTRACTOR CHOOSES TO PERFORM THE MANHOLE LININGS SEPARATE FROM THE COUNTY PROJECT, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE TEMPORARY TRAFFIC CONTROL NECESSARY ACCORDING TO THE MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL. NO PAYMENT FOR TRAFFIC CONTROL WILL BE MADE.
4. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEERING DEPARTMENT AND ANOKA COUNTY HWY DEPARTMENT A MINIMUM OF 72 HOURS PRIOR TO THE WORK BEING DONE.
5. CONTRACTOR SHALL COMPLETE THE ANOKA COUNTY HIGHWAY DEPARTMENT RIGHT-OF-WAY PERMIT AND POST ALL REQUIRED ESCROWS.





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Date 6/12/25 Reg. No. 45850

DATE

8/5/25

REVISION

COUNTY ROW PERMIT REVISIONS

PROJECT NO.

DESIGN BY: BML DRAWN BY: BML
CHECKED BY: DSS APPROVED BY: DSS

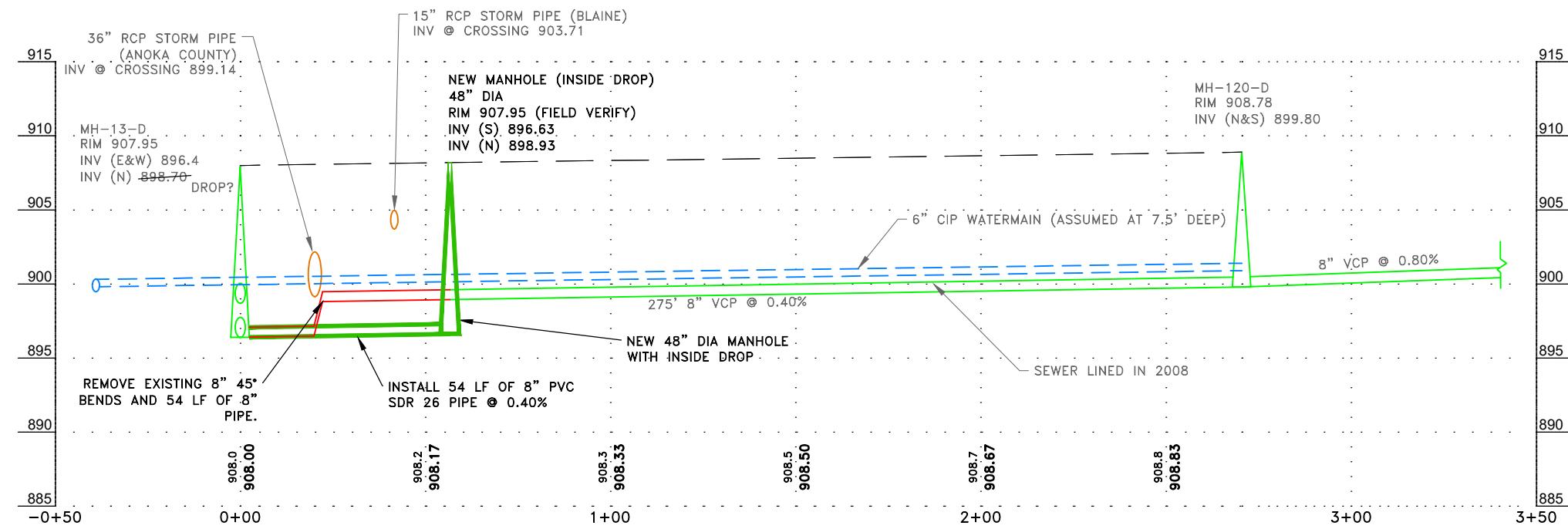
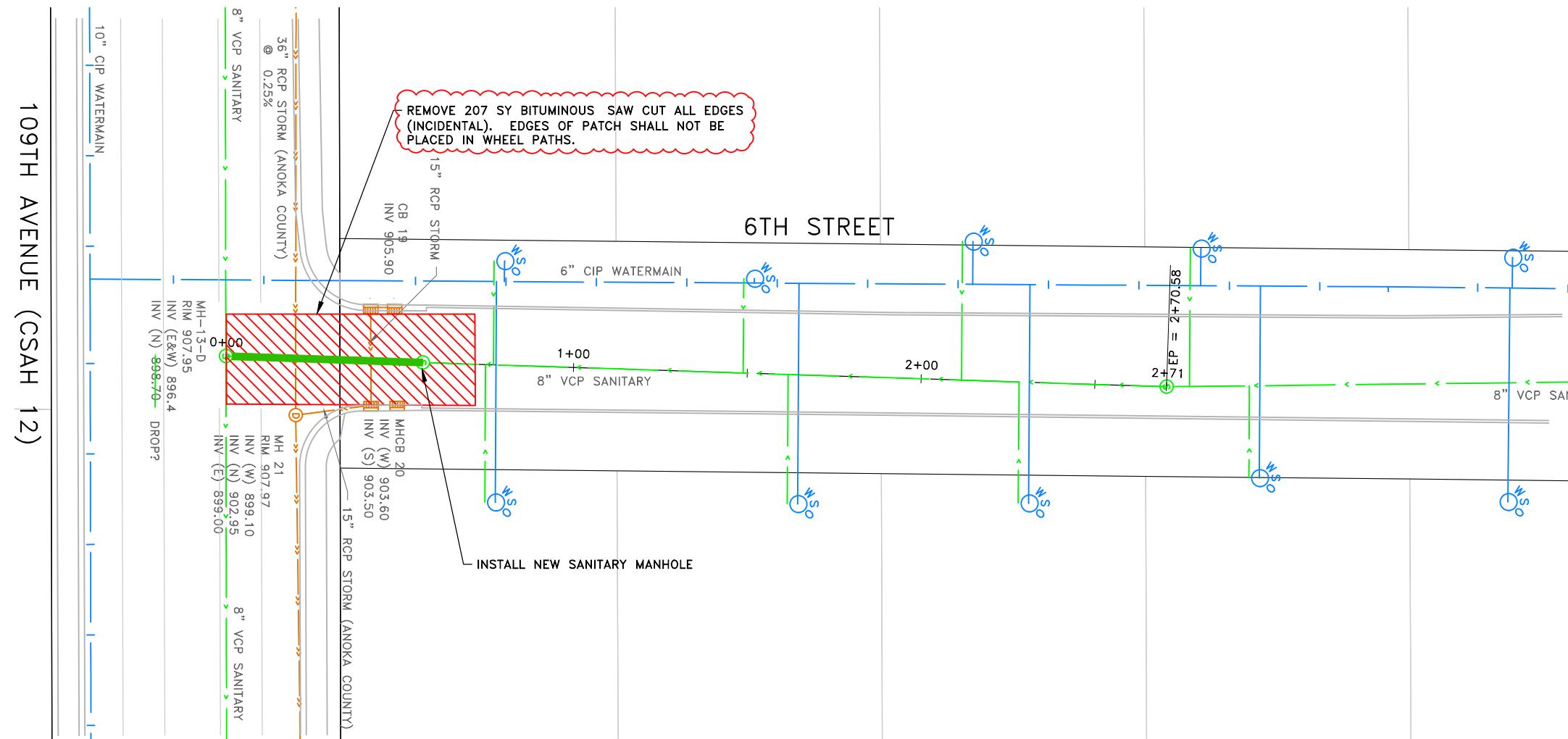
AS BUILT BY:

TRAFFIC CONTROL
6TH STREET @ 109TH AVENUE
CITY PROJ. NO. 25-07
2025 SANITARY SEWER REPAIRS PROJECT

SHEET NO. 4 OF 7 SHEETS



109TH AVENUE (CSAH 12)



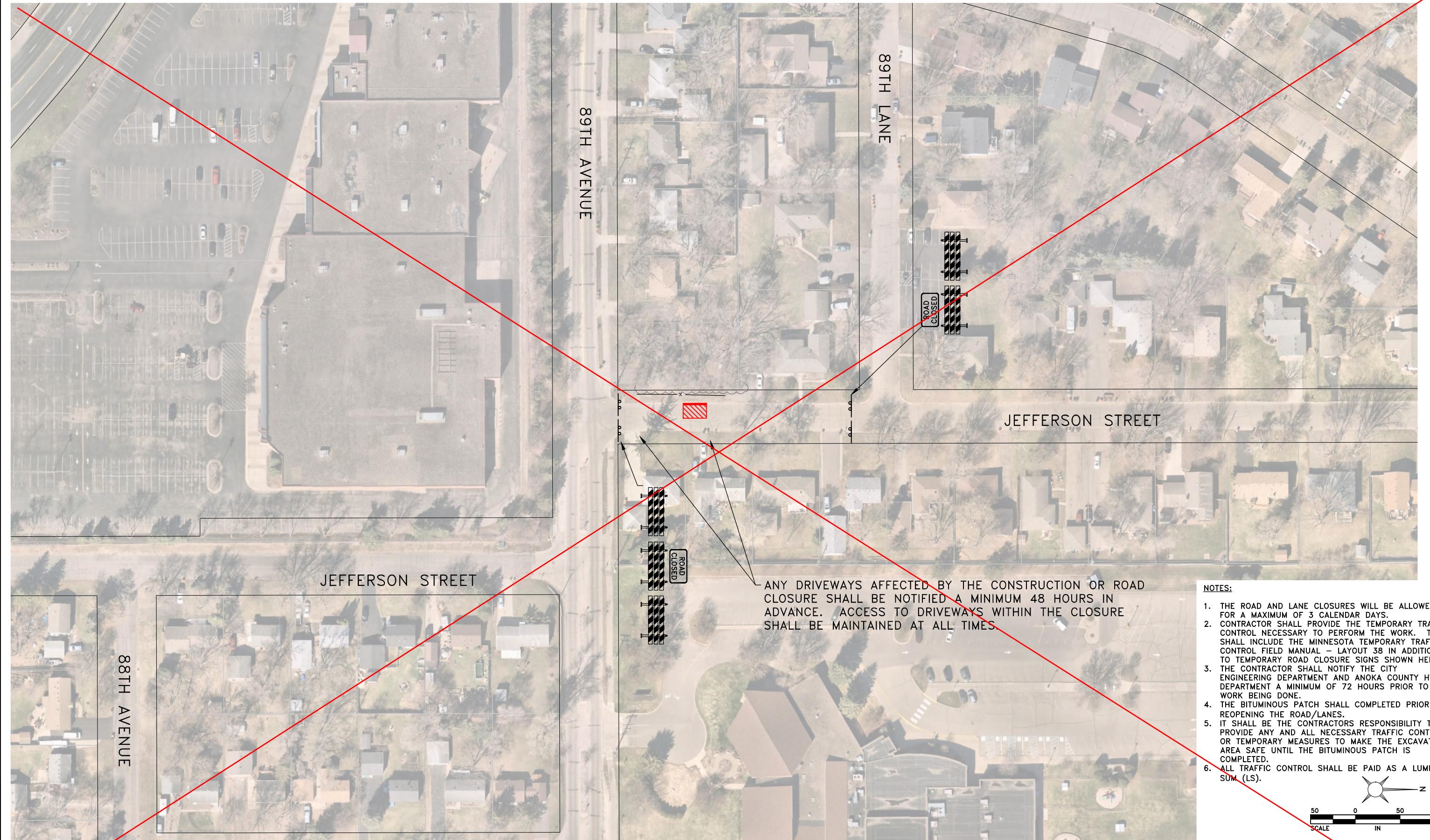
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[Signature]
 Date 6/12/25 Reg. No. 45850

DATE
 6/24/25
 8/5/25
 REMOVED FERNCO CONNECTION NOTE
 COUNTY ROW PERMIT REVISIONS

REVISION
 PROJECT NO.
 DESIGN BY: BML DRAWN BY: BML
 CHECKED BY: DSS APPROVED BY: DSS
 AS BUILT BY:

ENGINEERING DEPARTMENT
 10801 Town Square Drive, Blaine, Minnesota 55449
 Phone (763) 785-6172

PLAN AND PROFILE
 6TH STREET @ 109TH AVENUE
 CITY PROJ. NO. 25-07
 2025 SANITARY SEWER REPAIRS PROJECT
 SHEET NO. 5 OF 7 SHEETS



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Date 6/12/25 Reg. No. 45850

DATE

REVISION

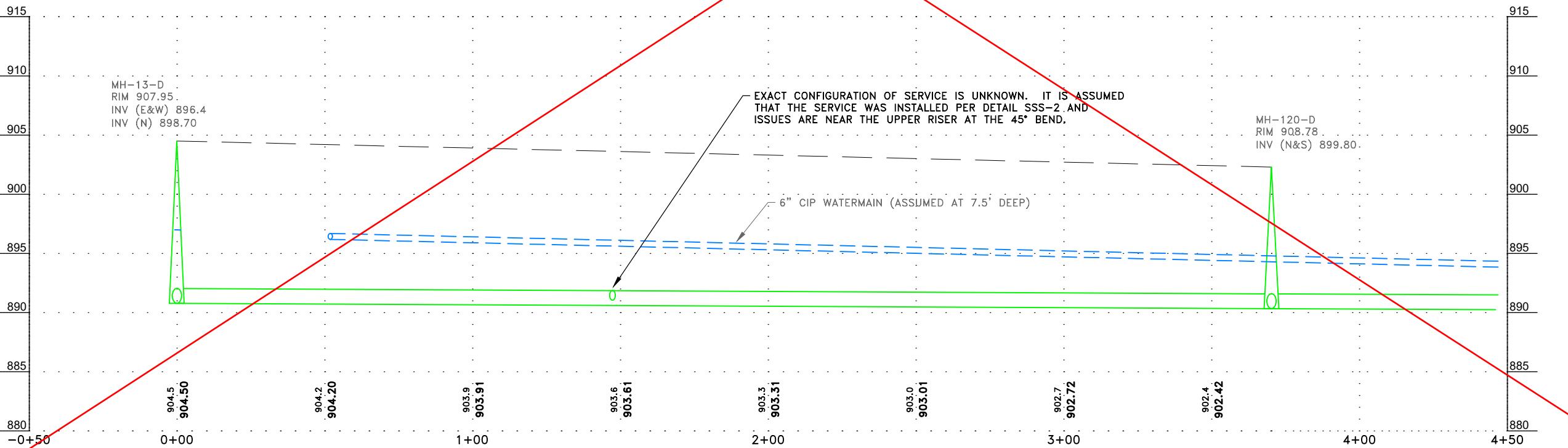
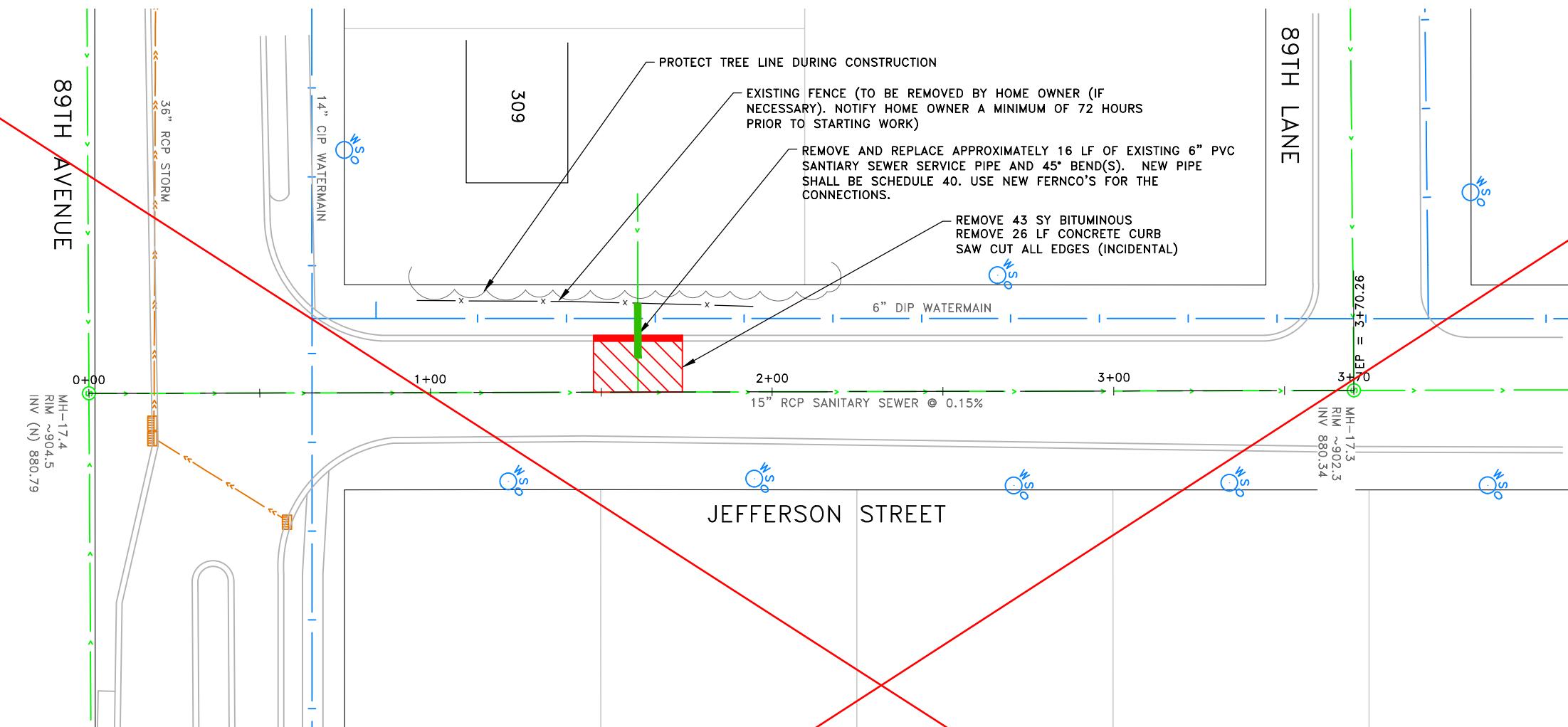
PROJECT NO.

DESIGN BY: BML DRAWN BY: BML

CHECKED BY: DSS APPROVED BY: DSS

AS BUILT BY:

TRAFFIC CONTROL
309 89TH AVENUE AND JEFFERSON STREET
CITY PROJ. NO. 25-26
2025 SANITARY SEWER REPAIRS PROJECT
SHEET NO. 6 OF 7 SHEETS



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Date 6/12/25 Reg. No. 45850

DATE: 6/24/25
REVISION: REVISED TO PIPE TYPE AND SIZE
PROJECT NO.
DESIGN BY: BML DRAWN BY: BML
CHECKED BY: DSS APPROVED BY: DSS
AS BUILT BY:

PLAN AND PROFILE
309 89TH AVENUE AND JEFFERSON STREET
CITY PROJ. NO. 25-26
2025 SANITARY SEWER REPAIRS PROJECT
SHEET NO. 7 OF 7 SHEETS