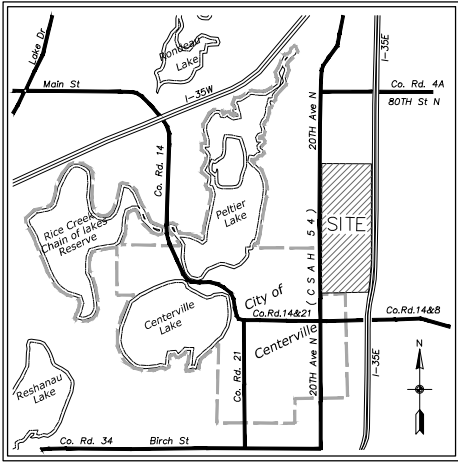


WATERMARK 3RD ADDITION

SANITARY SEWER, WATER MAIN, STORM SEWER AND STREET CONSTRUCTION PLANS

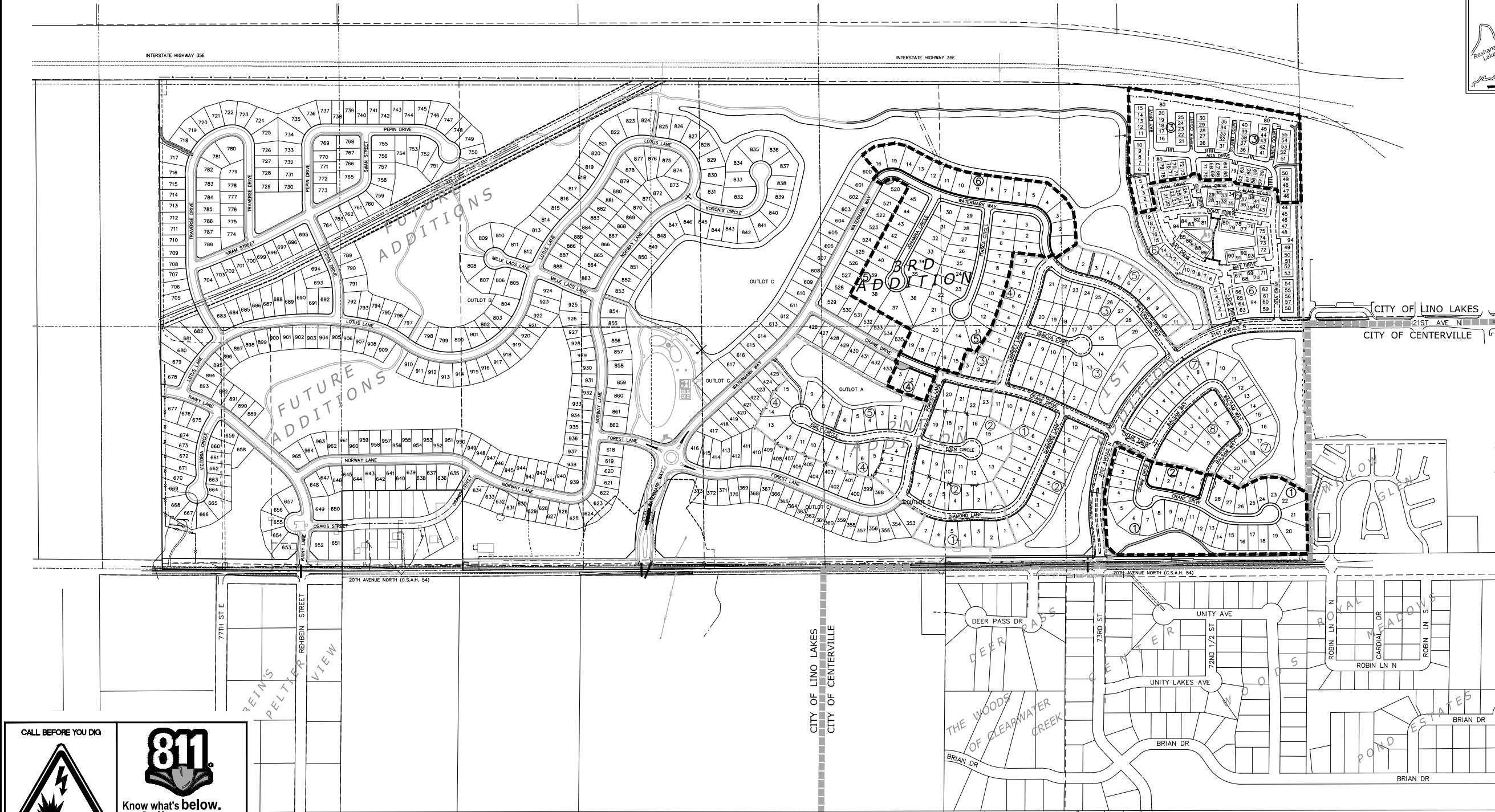
LINO LAKES, MINNESOTA



LOCATION MAP
(NO SCALE)

SHEET INDEX

- COVER
- INDEX
- SANITARY SEWER SHEET INDEX
11. SANITARY SEWER AND WATER MAIN
12. STORM SEWER SHEET INDEX
- 13-19. STORM SEWER
20. STREET CONSTRUCTION
 - CRANE DRIVE/BALSAM WAY
21. STREET CONSTRUCTION
 - ADA DRIVE/BAY DRIVE
22. STREET CONSTRUCTION
 - HERON CT/ISLAND CT/JASPER CT/GULL DR
23. STREET CONSTRUCTION
 - WATERMARK WAY
24. STREET CONSTRUCTION
 - ITASCA CIRCLE/JOHANNA CIRCLE
25. STREET CONSTRUCTION
 - CRANE DRIVE
- 26-28. SIGNING & STRIPING PLAN
29. TRAIL CONSTRUCTION
- 30-32. DETAILS



CALL BEFORE YOU DIG

811

Know what's below.
Call before you dig.

The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of O/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."



- environmental
- engineering
- surveying

3890 Pheasant Ridge Drive NE, Suite 100
Blaine, MN 55449
Phone: (763) 489-7900
Fax: (763) 489-7959
www.carlsonmccain.com

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

Print Name: Brian J. Krystofiak, P.E.
Signature: *Brian J. Krystofiak*
Date: 01/10/20 License #: 25063

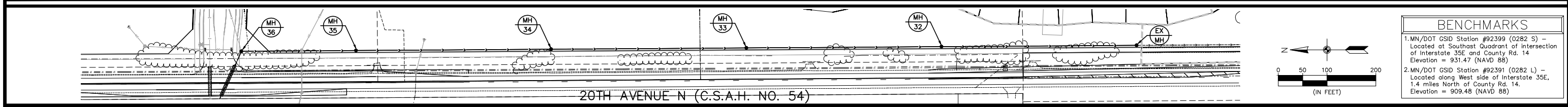
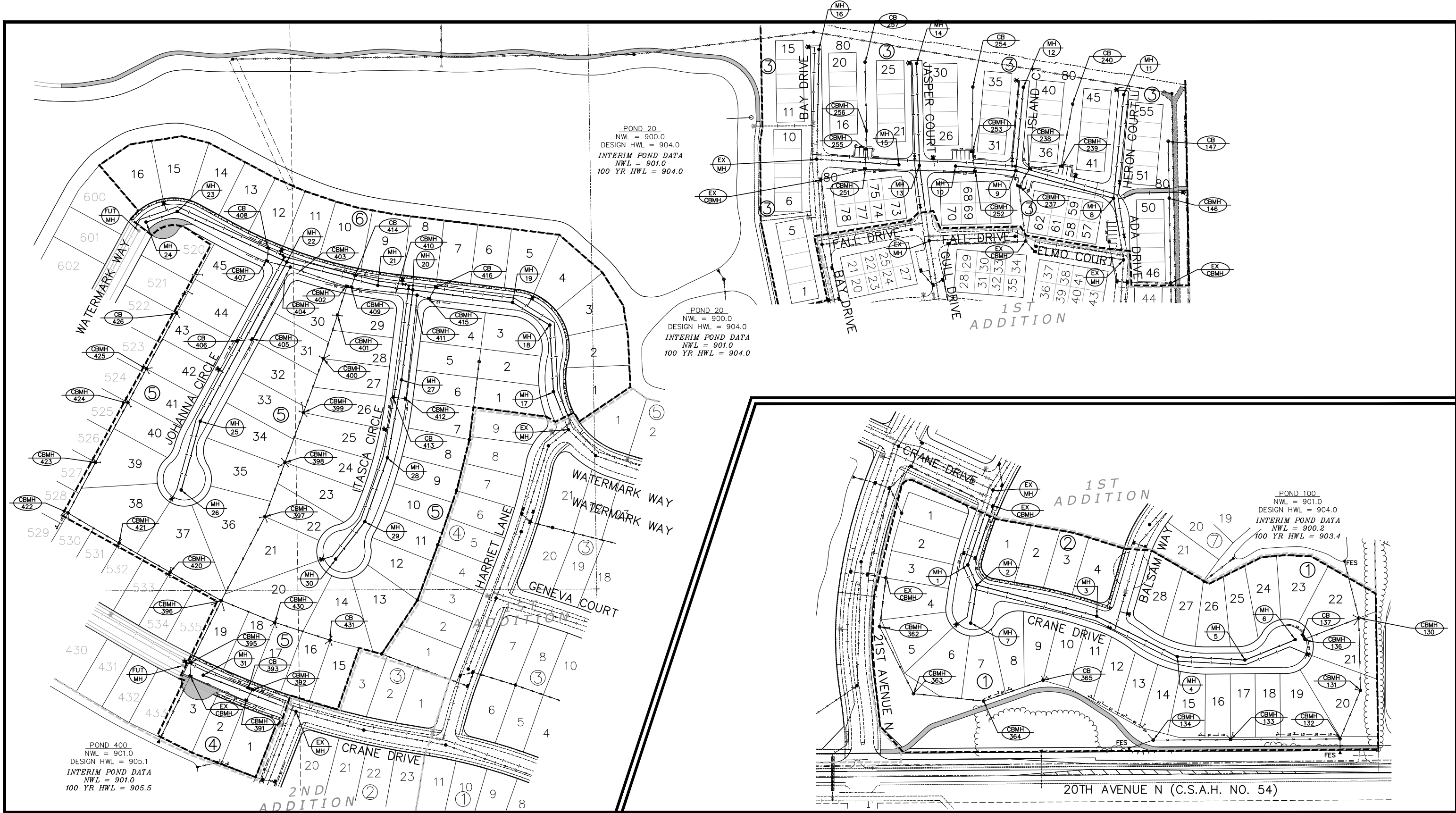
Drawn: KRO
Designed: BJK
Date: 01/10/20

Revisions:
1. 6/9/20 Rev. Shts. 1-18, 20, 30-32 Per City Comments
2. 7/7/20 Rev. Shts. 11 & 20 Per City Comments
3. 10/14/20 Rev. Sht. 11 & 25

LENNAR
16305 36th Avenue N. - Suite 600
Plymouth, MN 55446

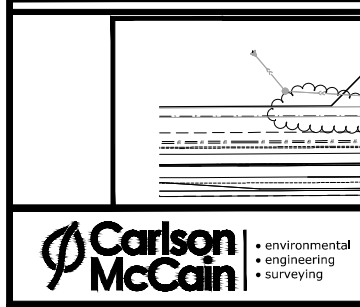
WATERMARK 3RD ADDITION
Lino Lakes, MN

COVER



Source: 06/15/20 F:\Jobs\6731 - Watermark\cad\3d\engineering\final\utility\3rd addition\6731_cover.dwg



 environmental engineering surveying	3890 Pheasant Ridge Drive NE, Suite 100 Blaine, MN 55449 Phone: (763) 489-7900 Fax: (763) 489-7959 www.carlsonmccain.com	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	Print Name: Brian J. Krystofiak, P.E. Signature: <i>Brian J. Krystofiak</i> Date: 01/10/20 License #: 25063	Drawn: KRO Designed: BJK Date: 01/10/20	Revisions: 1. 6/9/20 Per City Comments	LENNAR 16305 36th Avenue N. - Suite 600 Plymouth, MN 55446	WATERMARK 3RD ADDITION Lino Lakes, MN	SANITARY SEWER SHEET INDEX BENCHMARKS 1. MN/DOT GSID Station #92399 (0282 S) - Located at Southeast Quadrant of Intersection of Interstate 35E and County Rd. 14. Elevation = 931.47 (NAVD 88) 2. MN/DOT GSID Station #92391 (0282 L) - Located along West side of Interstate 35E, 1.4 miles North of County Rd. 14. Elevation = 909.48 (NAVD 88) 0 50 100 200 (IN FEET)
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GENERAL NOTES:

1. SANITARY SEWER SERVICES SHALL BE 4" PVC SCHEDULE 40 UNLESS OTHERWISE NOTED.

2. WATER SERVICES SHALL BE 1" DIA. MIN. TYPE K COPPER WITH 7.5' MINIMUM COVER.

3. SANITARY SEWER SERVICE WYES ARE STATIONED FROM THE DOWN STREAM MANHOLE.

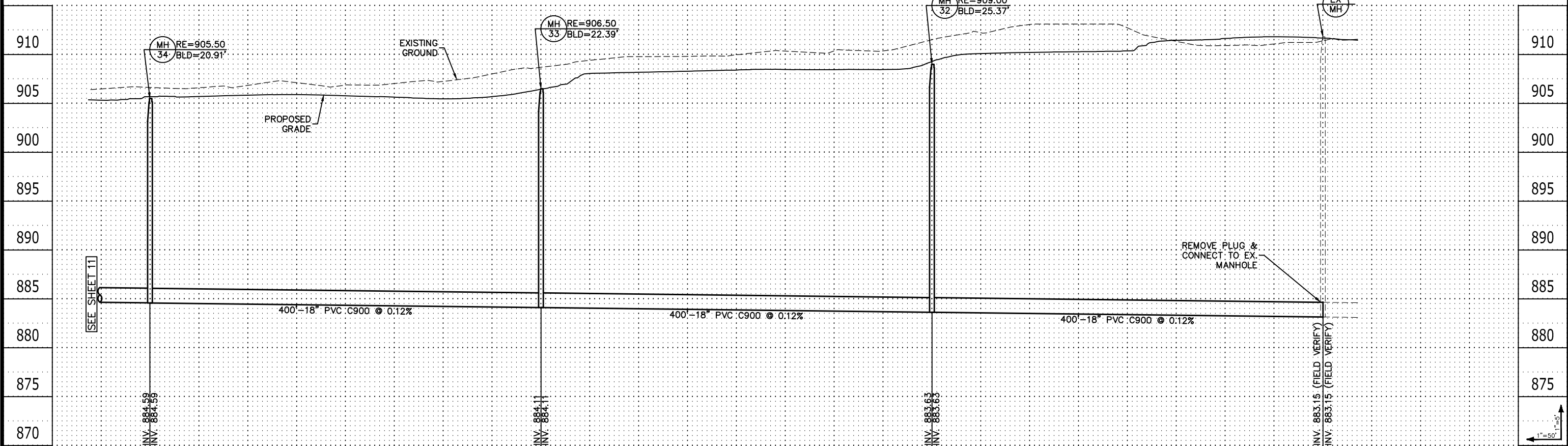
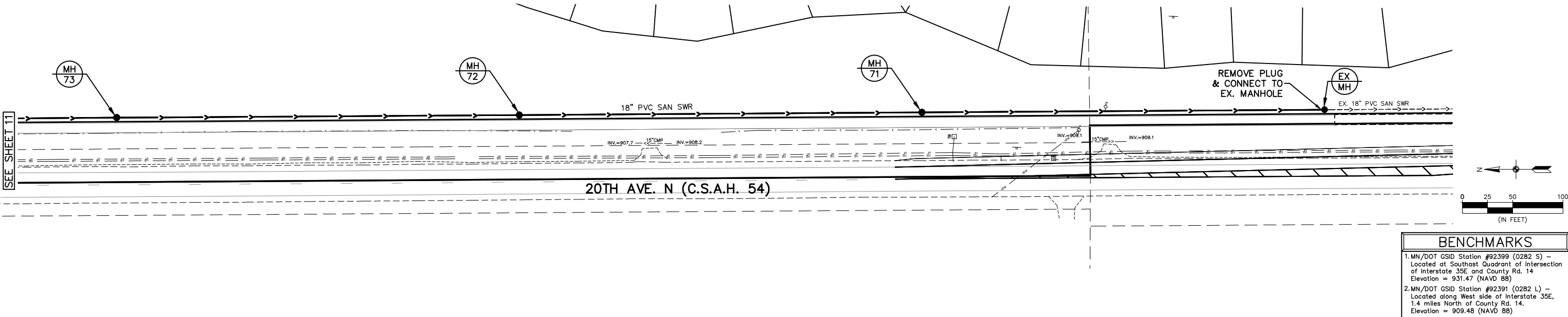
4. SANITARY SEWER INVERTS ARE SHOWN AT THE CURB STOP.
5. SANITARY SEWER & WATER SERVICES ON PUBLIC STREETS SHALL BE CONSTRUCTED 6' BEYOND THE R/W. SANITARY SEWER & WATER SERVICES ON PRIVATE STREETS SHALL BE CONSTRUCTED 10' BEYOND THE BACK OF CURB.

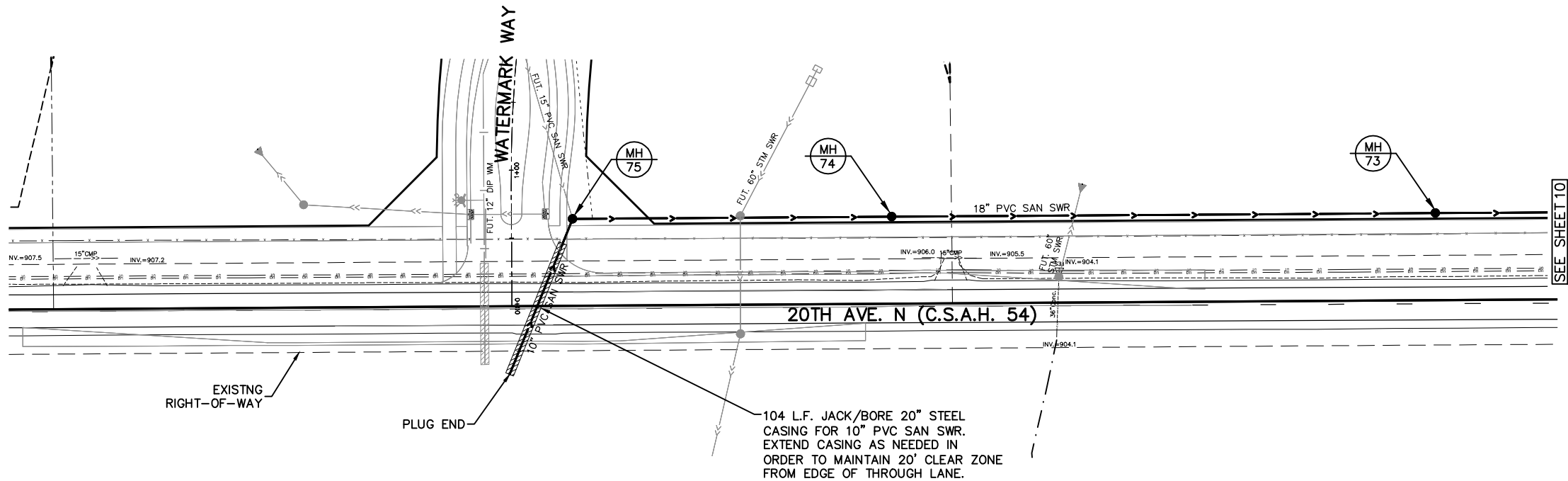
6. ALL FITTINGS SHALL BE DUCTILE IRON CLASS 350 COMPACT FUSION-BONDED EPOXY COATED.

7. SEE DETAIL PLATE WAT-3 FOR WATERMAIN OFFSET. 4'X8' 4" INSULATION IS TO BE USED WHEN THERE IS LESS THAN 24" VERTICAL CLEARANCE BETWEEN THE WATERMAIN AND SEWER.
8. CONTRACTOR TO PROVIDE X,Y,Z COORDINATES FOR WYES AND SERVICE ENDS FOR FUTURE LOCATING REQUIREMENTS.

9. TRACER WIRE TO BE INSTALLED ON ALL SANITARY SERVICES. (SEE DETAIL SAN-7) A TRACER WIRE BOX SHALL BE PROVIDED AT THE SURFACE FOR THE ENDS OF THE SANITARY SERVICE TRACER WIRE TO PROVIDE ACCESS TO WIRE ENDS FOR FUTURE LOCATING REQUIREMENTS.

10. INFI-SHIELD, OR APPROVED EQUAL, TO BE INSTALLED ON THE OUTSIDE OF ALL ADJUSTMENT RINGS AND SHALL COVER THE RINGS FROM THE CASTING DOWN OVER THE CONE OF THE STRUCTURE.





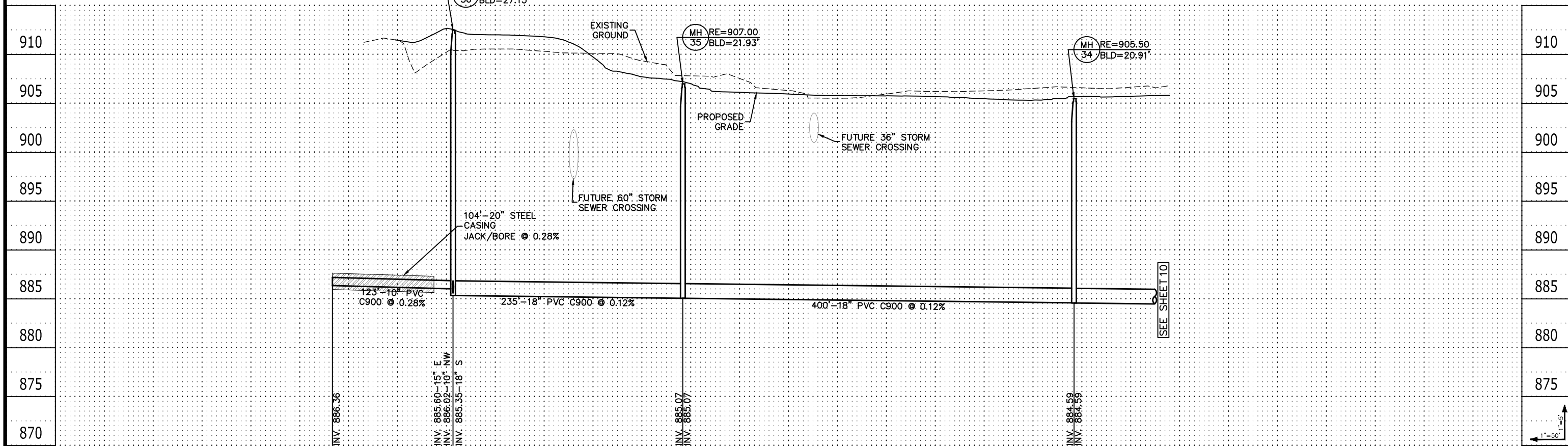
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(IN FEET)

BENCHMARKS

1. MN/DOT GSID Station #92399 (0282 S) -
Located at Southeast Quadrant of intersection
of Interstate 35E and County Rd. 14
Elevation = 931.47 (NAVD 88)

2. MN/DOT GSID Station #92391 (0282 L) -
Located along West side of Interstate 35E,
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Save Date: 10/21/20 File: j00616721 - 674016731 - watermark/cad c3d engineering/final utility/3rd addition/6731_00bty.dwg