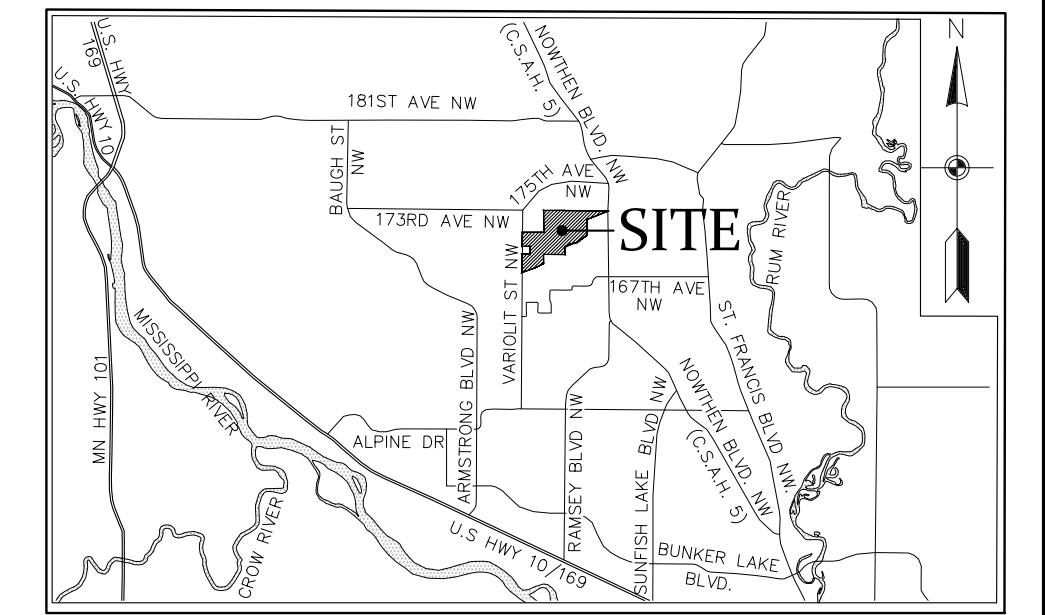


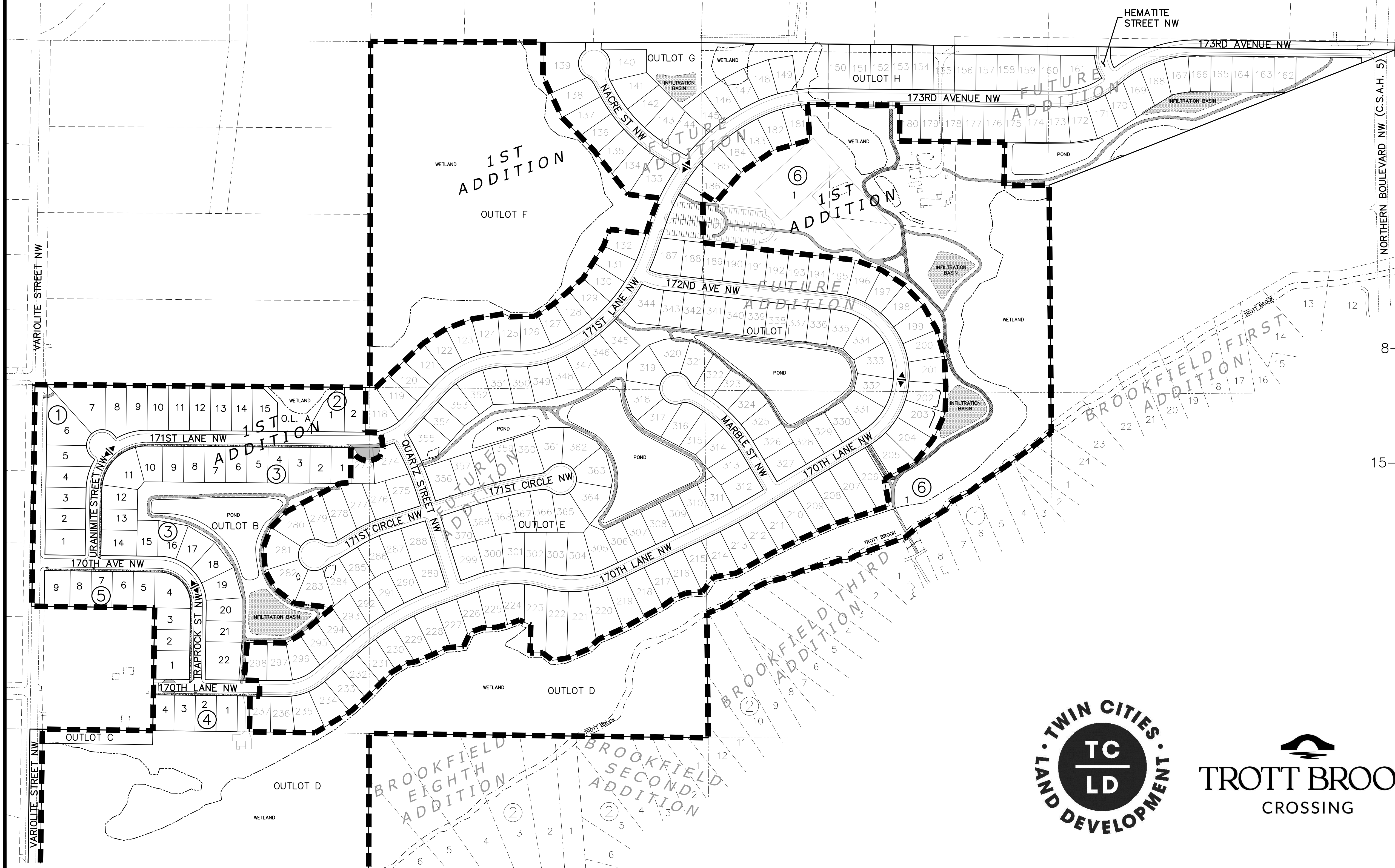
# TROTT BROOK CROSSING 1ST ADDITION

## SANITARY SEWER, WATER MAIN, STORM SEWER AND STREET CONSTRUCTION PLANS RAMSEY, MINNESOTA

### VICINITY MAP

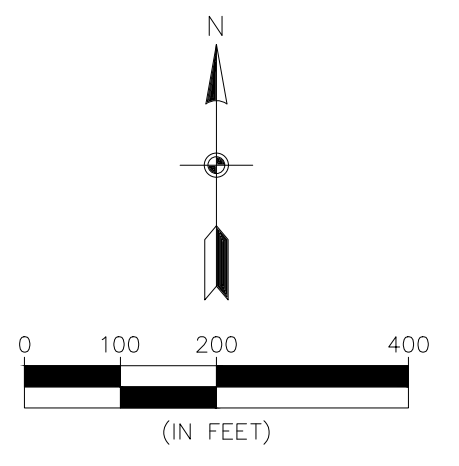


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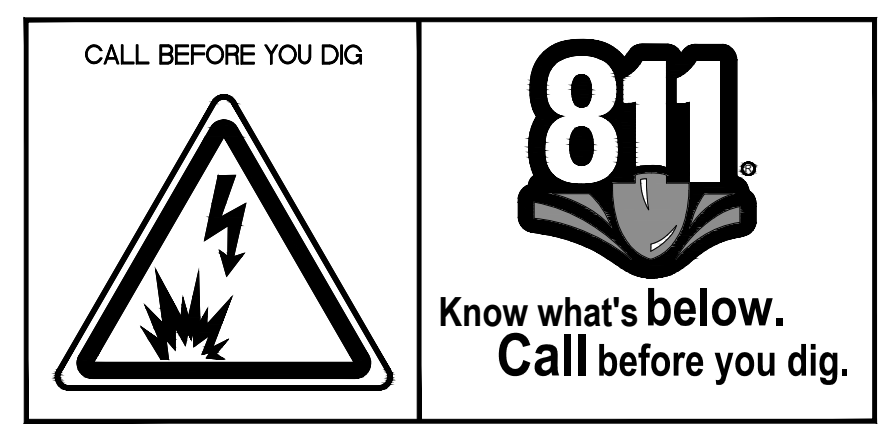
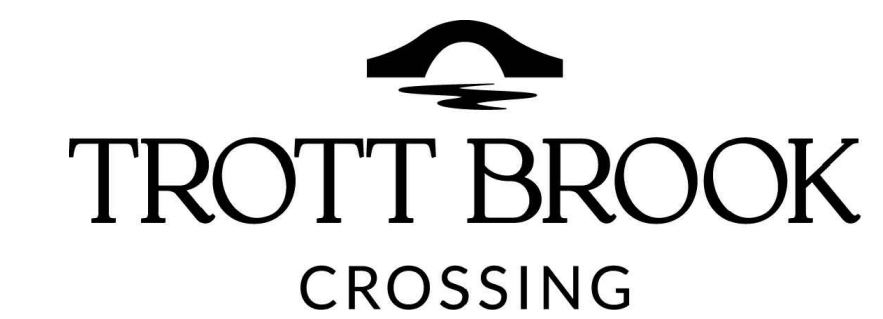


### SHEET INDEX

1. COVER
2. SANITARY SEWER INDEX
3. STORM SEWER INDEX
4. SANITARY SEWER & WATERMAIN
  - 170TH LANE NW
5. SANITARY SEWER & WATERMAIN
  - 170TH AVENUE NW/ TRAPROCK STREET NW
6. SANITARY SEWER & WATERMAIN
  - URANIMITE STREET NW
7. SANITARY SEWER & WATERMAIN
  - 171ST LANE NW
- 8-11. STORM SEWER
12. STREET CONSTRUCTION
  - 170TH AVENUE NW/ TRAPROCK STREET NW
13. STREET CONSTRUCTION
  - URANIMITE STREET NW/ 171ST LANE NW
14. STREET CONSTRUCTION
  - 170TH LANE NW
- 15-19. DETAILS
- S1. SIGNING & STRIPING PLAN



| BENCHMARKS   |  |
|--|--|
| 1. Anoka County Benchmark No. 3077 - Elevation 901.84 ft. (NAVD88) |  |
| 2. Anoka County Benchmark No. 3078 - Elevation 867.97 ft. (NAVD88) |  |



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

**CARLSON MCCAIN** ENGINEERING SURVEYING ENVIRONMENTAL  
 3690 PHEASANT RIDGE DR NE SUITE 100 BLAINE, MN 55449  
 TEL 763.489.7900 FAX 763.489.7959  
 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: 1/18/23 License #: 25063

Drawn: GJS  
 Designed: BJK  
 Date: 1/18/23

Revisions:  
 1. 3/1/23 per City Comments

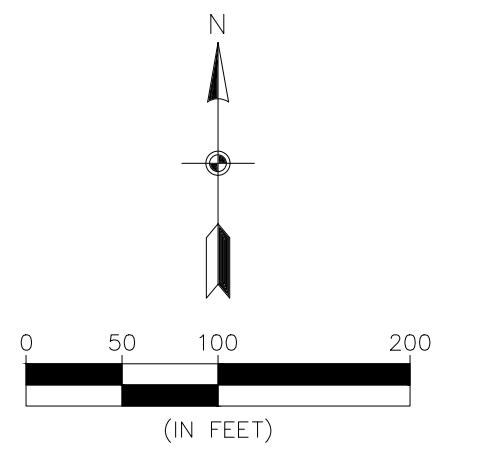
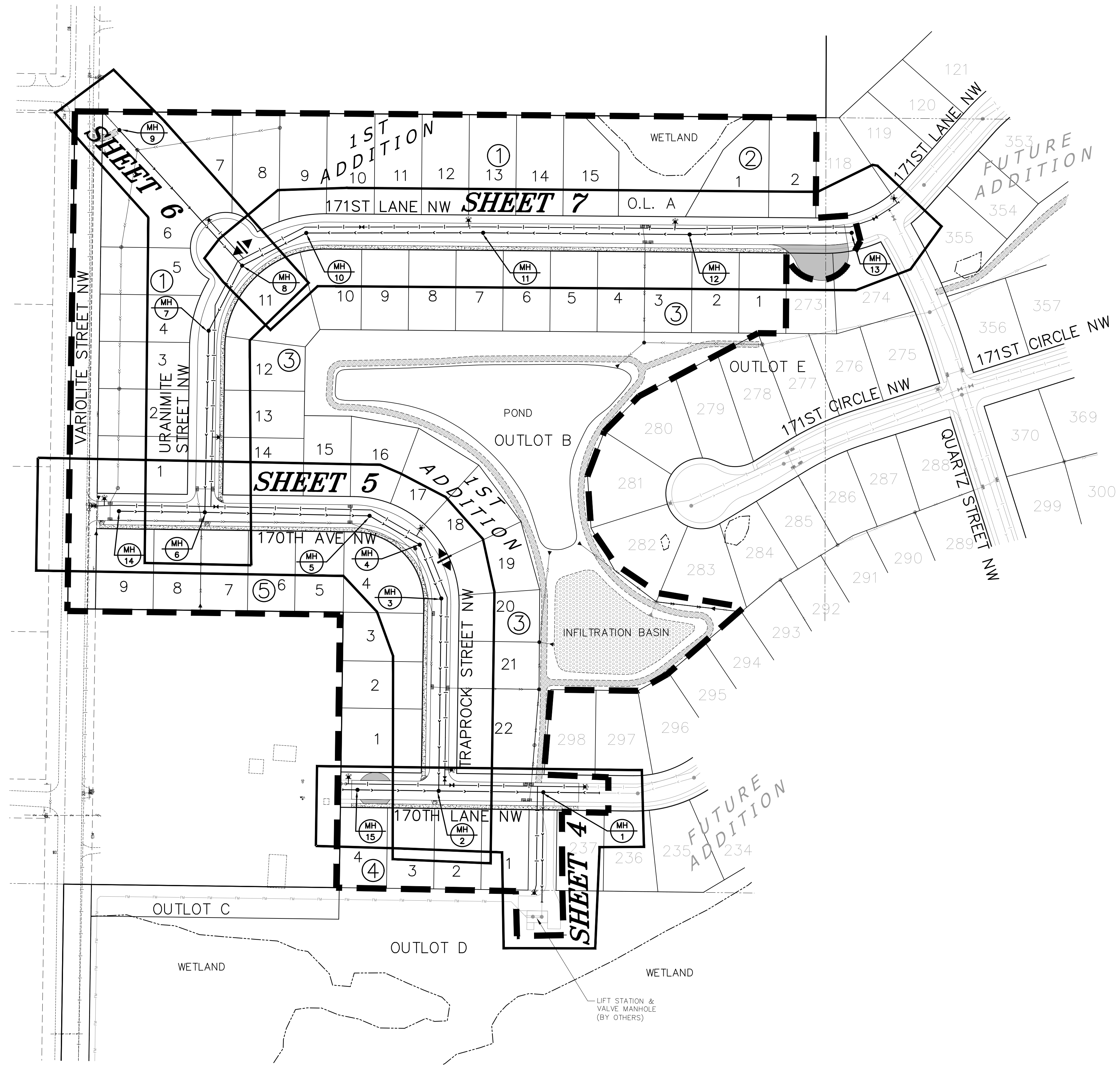
**TWIN CITIES LAND DEVELOPMENT**  
 4800 Olson Memorial Highway, Suite 100  
 Golden Valley, Minnesota 55422

**TROTT BROOK CROSSING**  
**1ST ADDITION**  
 Ramsey, Minnesota

**COVER**

1 of 19

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| BENCHMARKS |   |
|------------|---|
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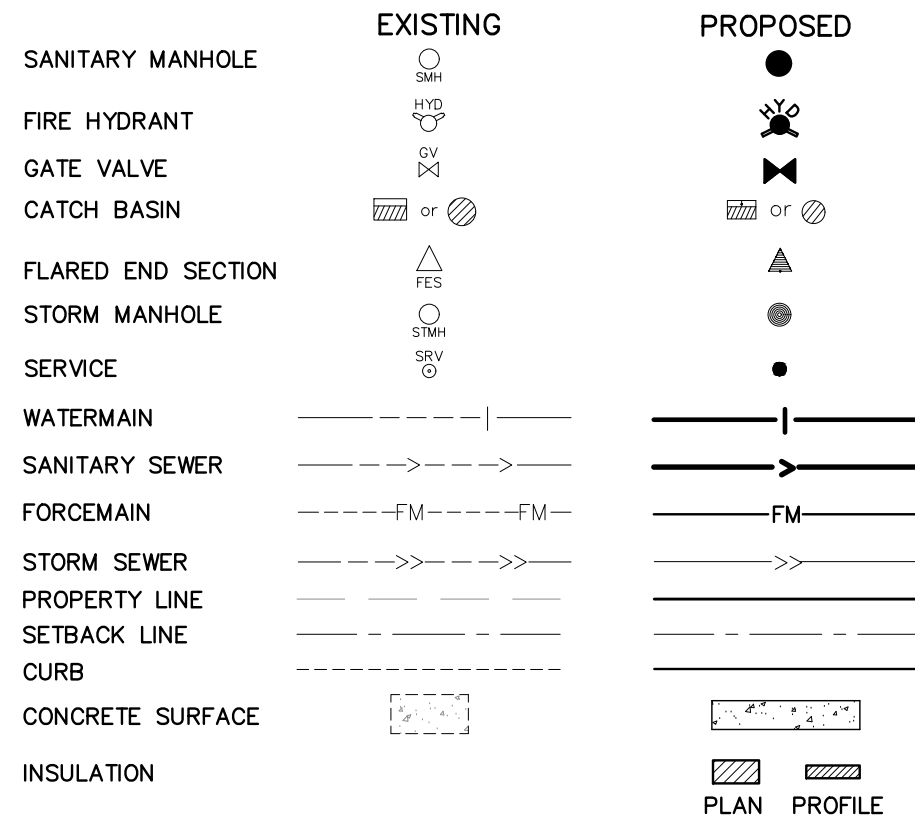
**TROTT BROOK CROSSING**  
**1ST ADDITION**  
 Ramsey, Minnesota

**SANITARY SEWER INDEX**

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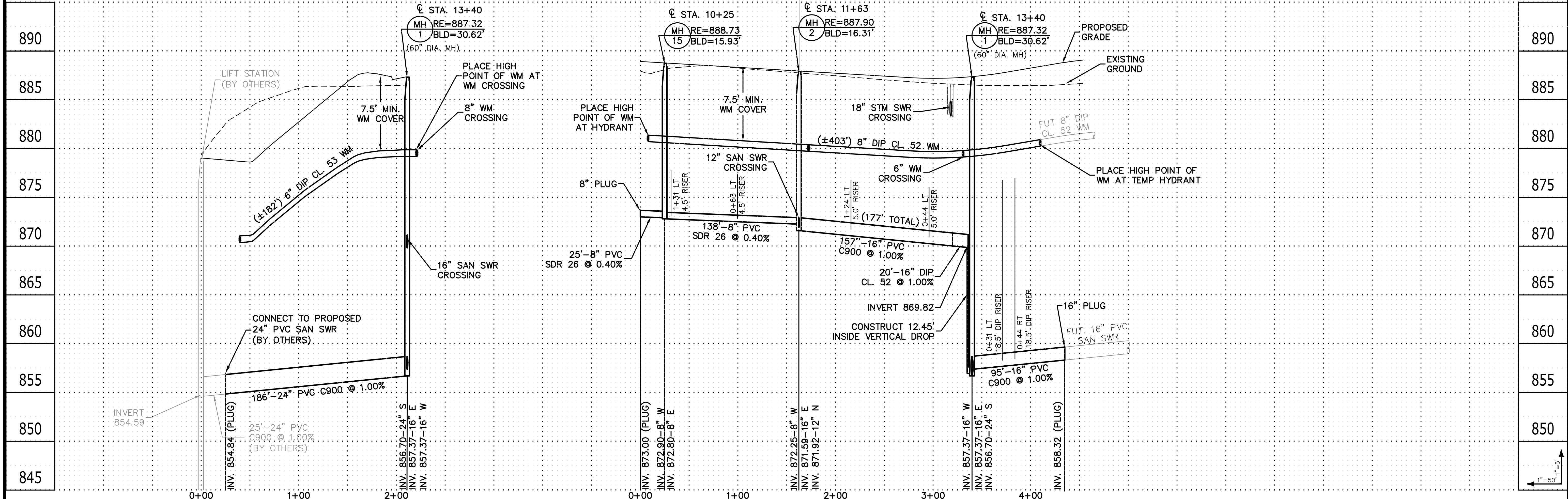
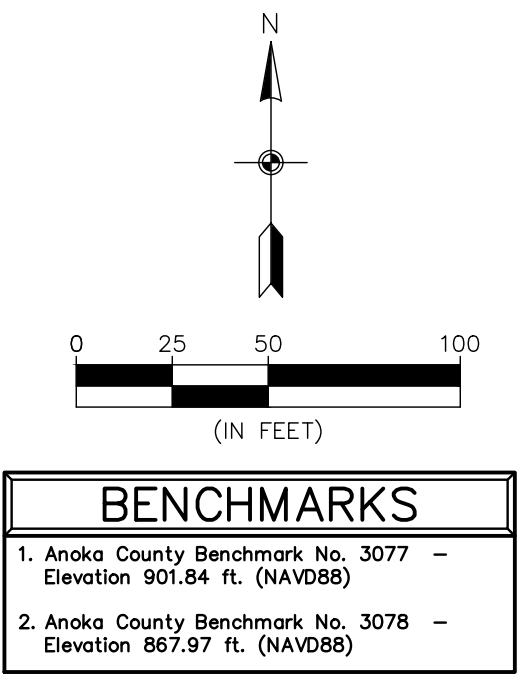
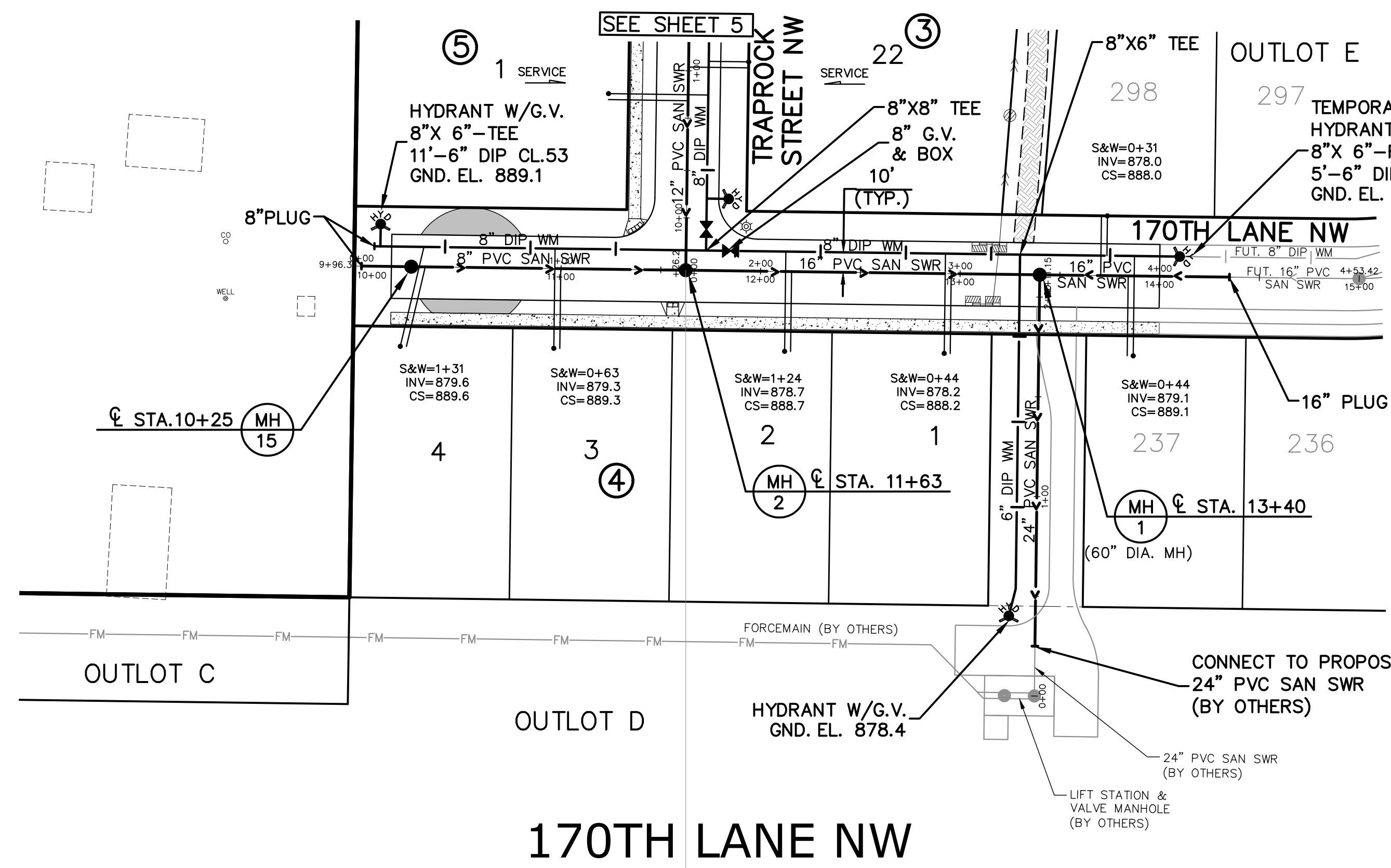


**LEGEND**



**GENERAL NOTES:**

- SANITARY SEWER SERVICES SHALL BE 4" PVC SDR 26 UNLESS OTHERWISE NOTED.
- WATER SERVICES SHALL BE 1" DIA. TYPE K COPPER WITH 7.5' MINIMUM COVER.
- SANITARY SEWER SERVICE WYES ARE STATIONED FROM THE DOWN STREAM MANHOLE.
- SANITARY SEWER INVERTS ARE SHOWN AT THE CURB STOP.
- SANITARY SEWER & WATER SERVICES SHALL BE CONSTRUCTED TO THE R/W WHERE THERE IS NO SIDEWALK, AND 10' BEYOND THE R/W WHERE THERE IS SIDEWALK.
- SLEEVES ARE NOT PERMITTED FOR JOINING WATERMAIN. ALLOW ROOM TO DEFLECT PIPE TO JOIN PIPE AT BELLS OR FITTINGS (EXCLUDING SLEEVES).



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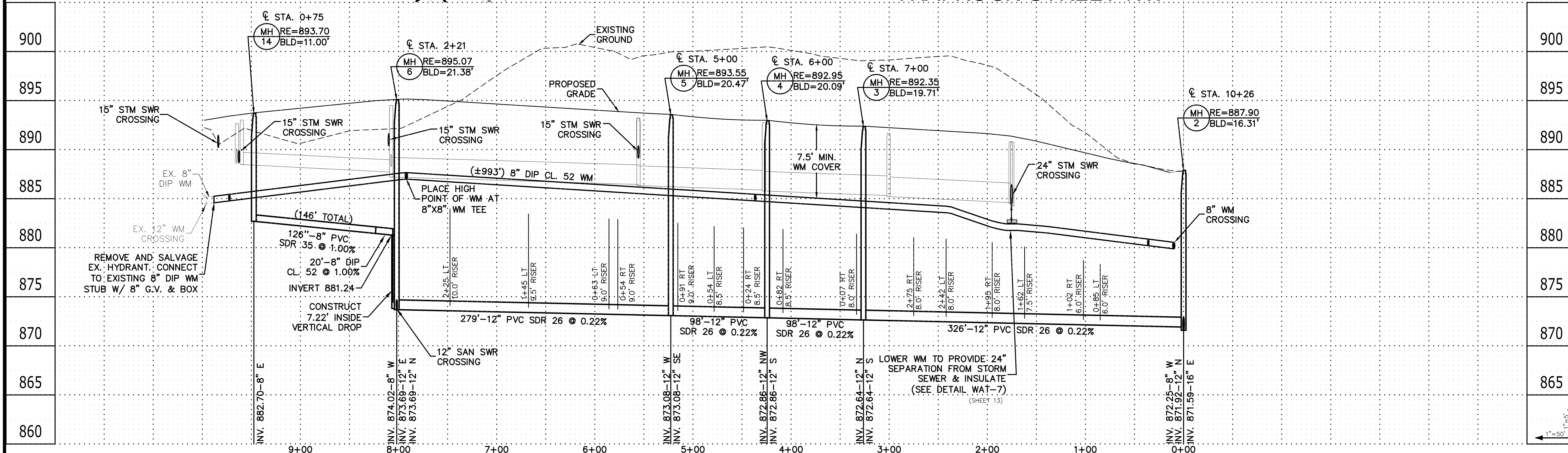
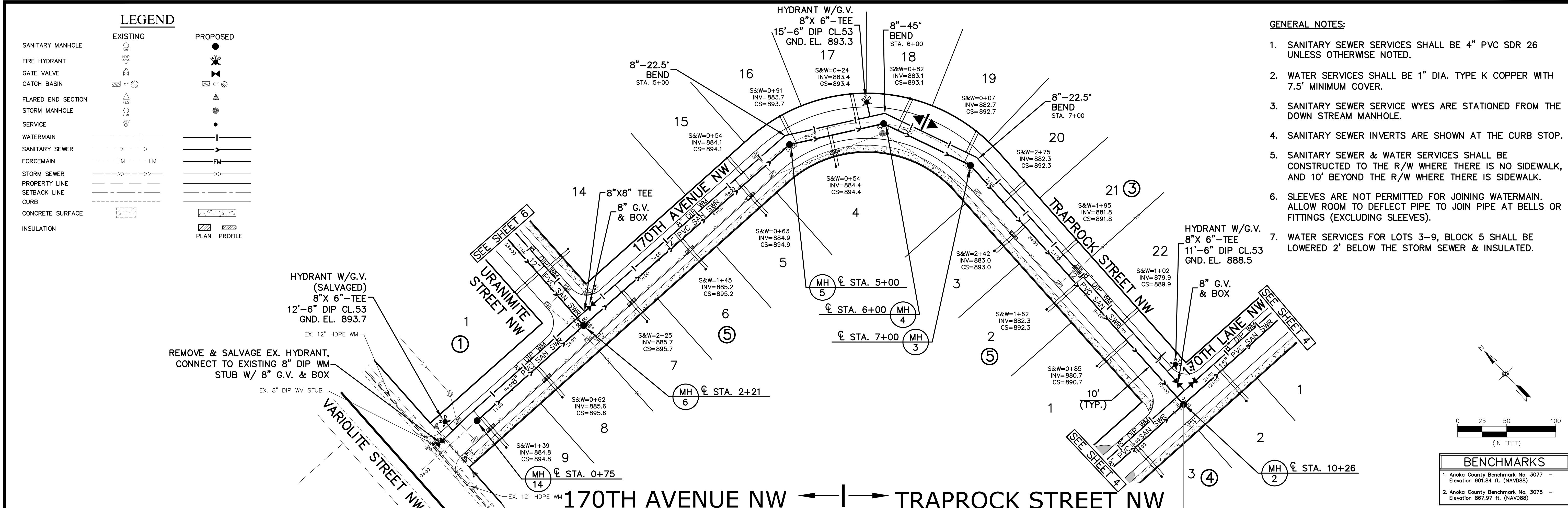
Revisions:  
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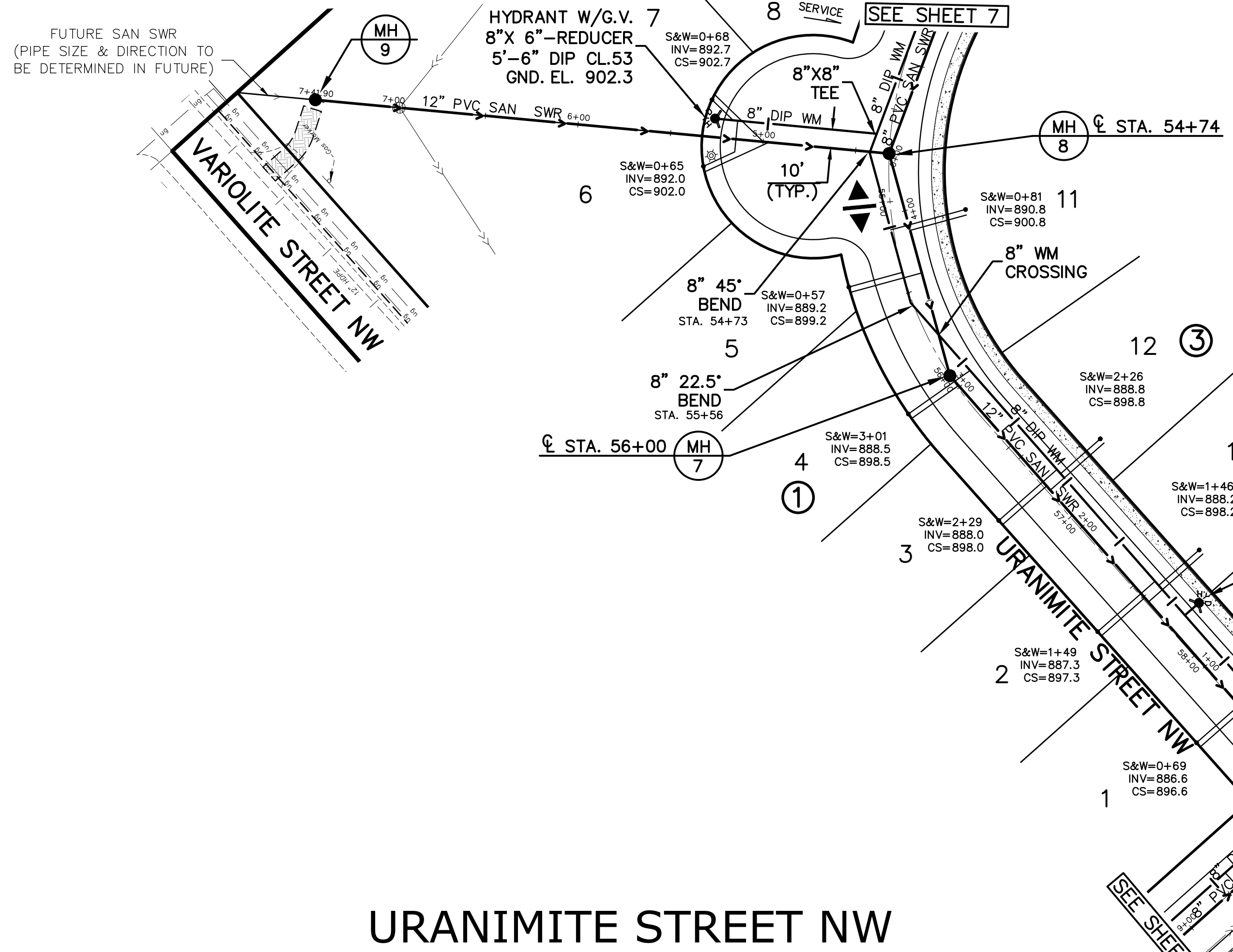
**TROTT BROOK CROSSING**  
 1ST ADDITION  
 Ramsey, Minnesota

**SANITARY SEWER & WATER MAIN**

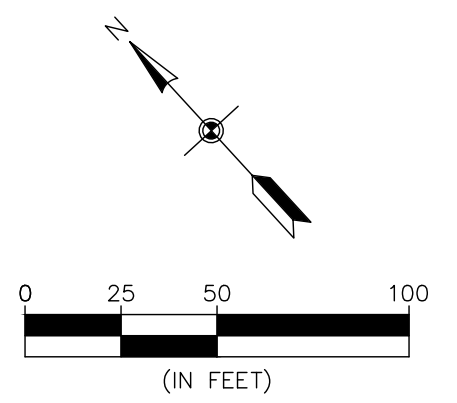
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|--|--|---|--|---|---|---|--|---------|
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|  |  |   |  |   |   |   |  |         |



- GENERAL NOTES:**
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  - SANITARY SEWER SERVICE WYES ARE STATIONED FROM THE DOWN STREAM MANHOLE.
  - SANITARY SEWER INVERTS ARE SHOWN AT THE CURB STOP.
  - SANITARY SEWER & WATER SERVICES SHALL BE CONSTRUCTED TO THE R/W WHERE THERE IS NO SIDEWALK, AND 10' BEYOND THE R/W WHERE THERE IS SIDEWALK.
  - SLEEVES ARE NOT PERMITTED FOR JOINING WATERMAIN. ALLOW ROOM TO DEFLECT PIPE TO JOIN PIPE AT BELLS OR FITTINGS (EXCLUDING SLEEVES).

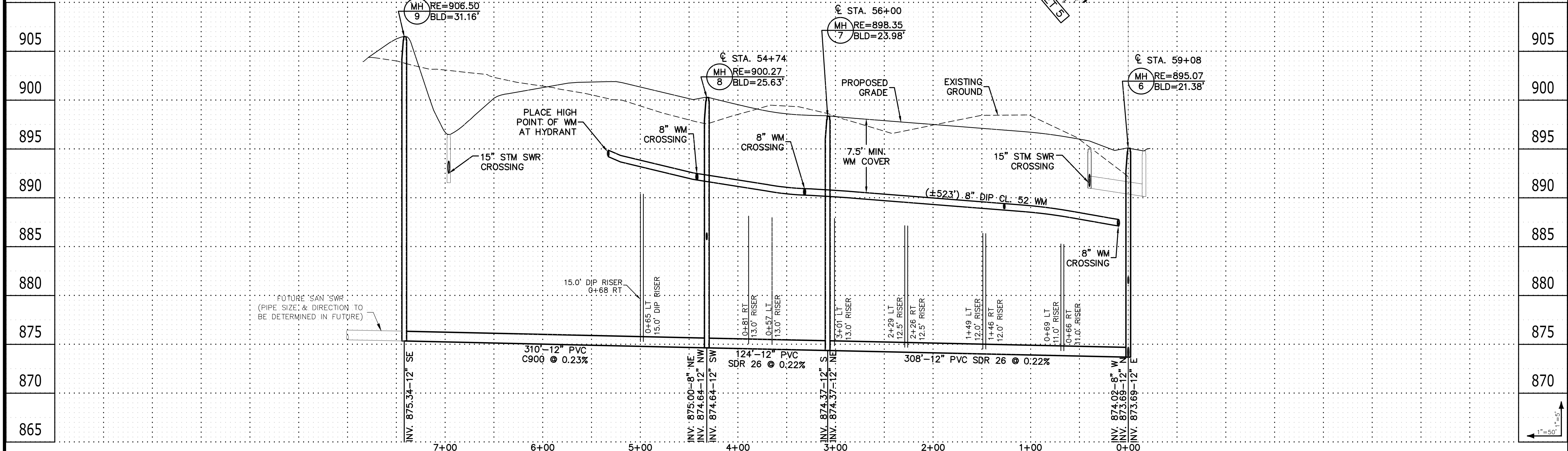


| BENCHMARKS |   |
|------------|---|
| 1.         | Anoka County Benchmark No. 3077 - Elevation 901.84 ft. (NAVD88) |
| 2.         | Anoka County Benchmark No. 3078 - Elevation 887.97 ft. (NAVD88) |

**LEGEND**

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**URANIMITE STREET NW**



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Revisions:  
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 Golden Valley, Minnesota 55422

**TROTT BROOK CROSSING**  
 1ST ADDITION  
 Ramsey, Minnesota

**SANITARY SEWER & WATER MAIN**

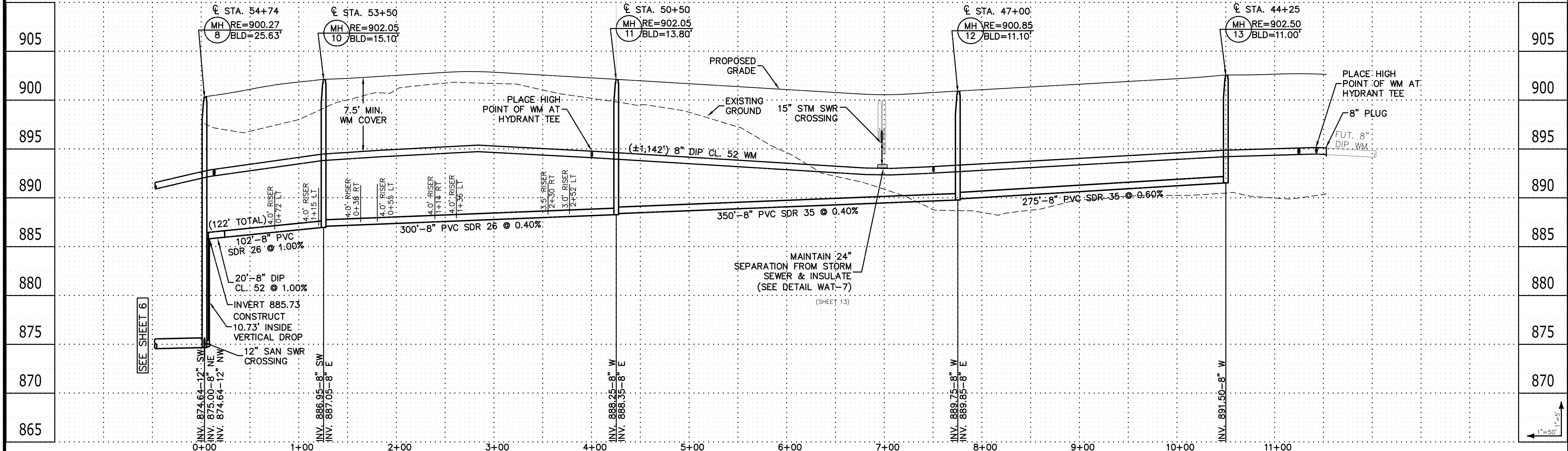
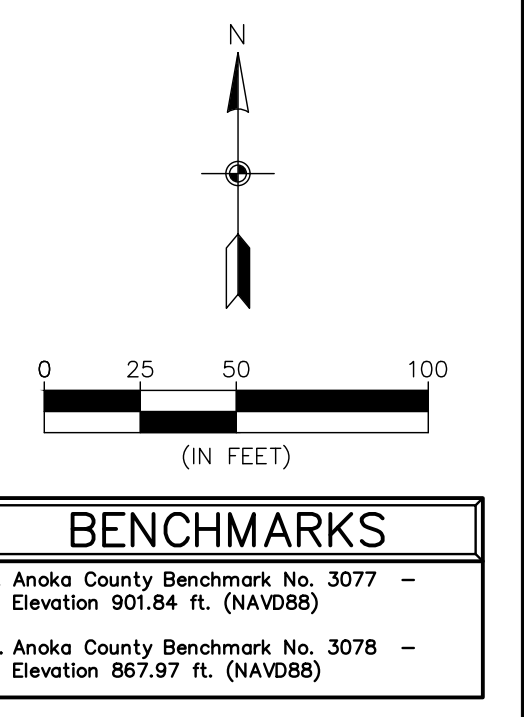
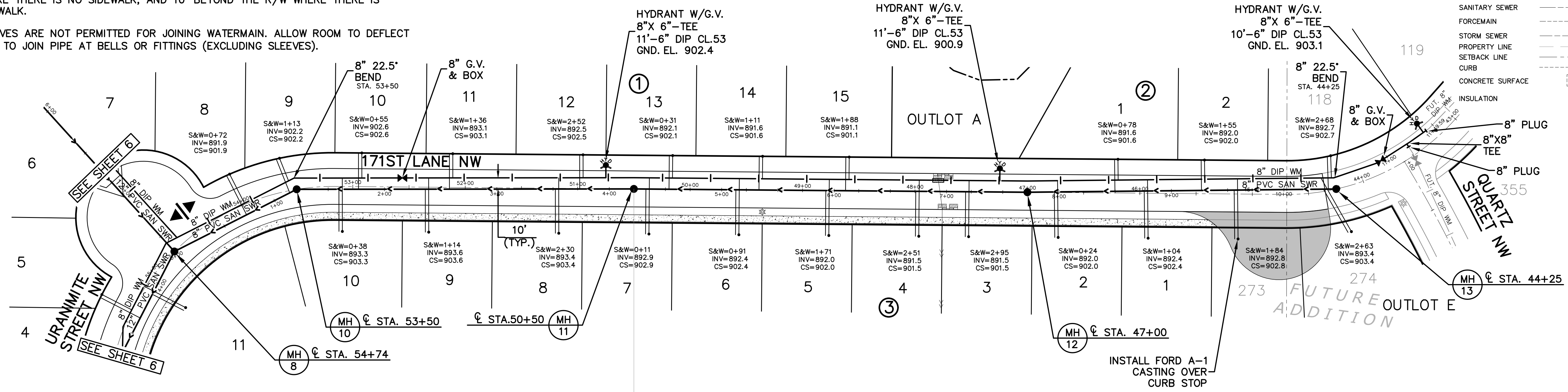
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**GENERAL NOTES:**

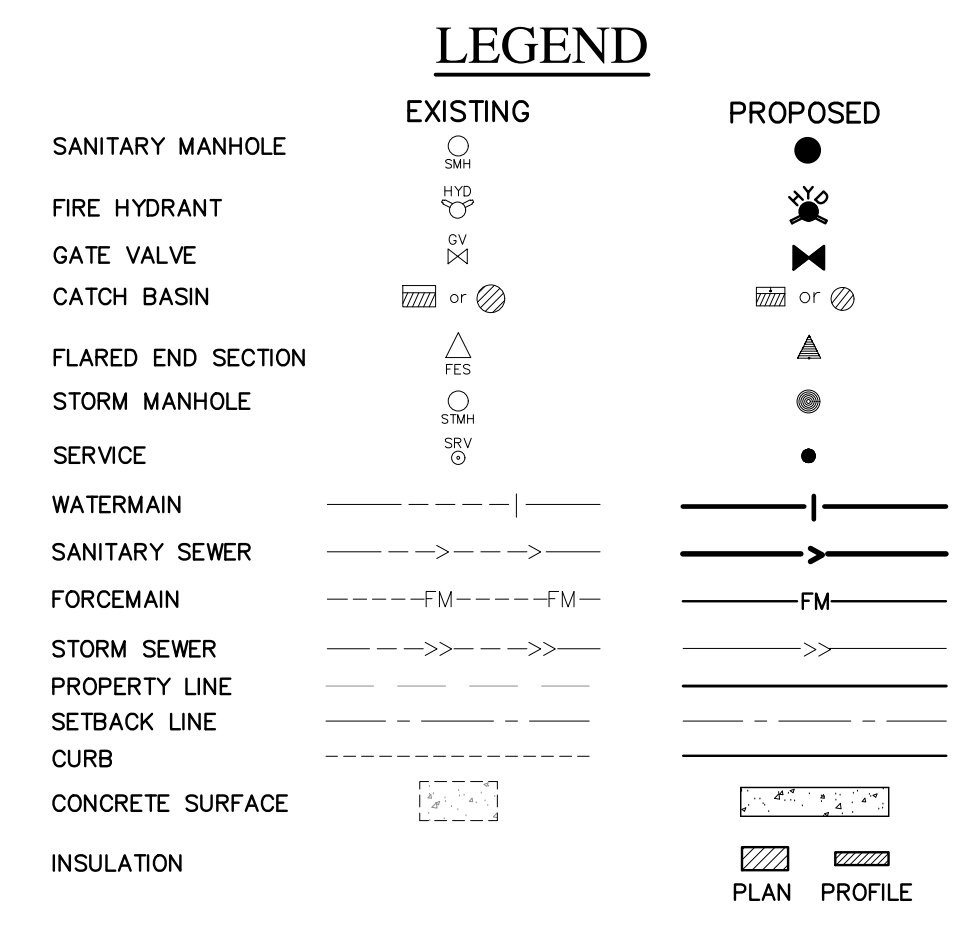
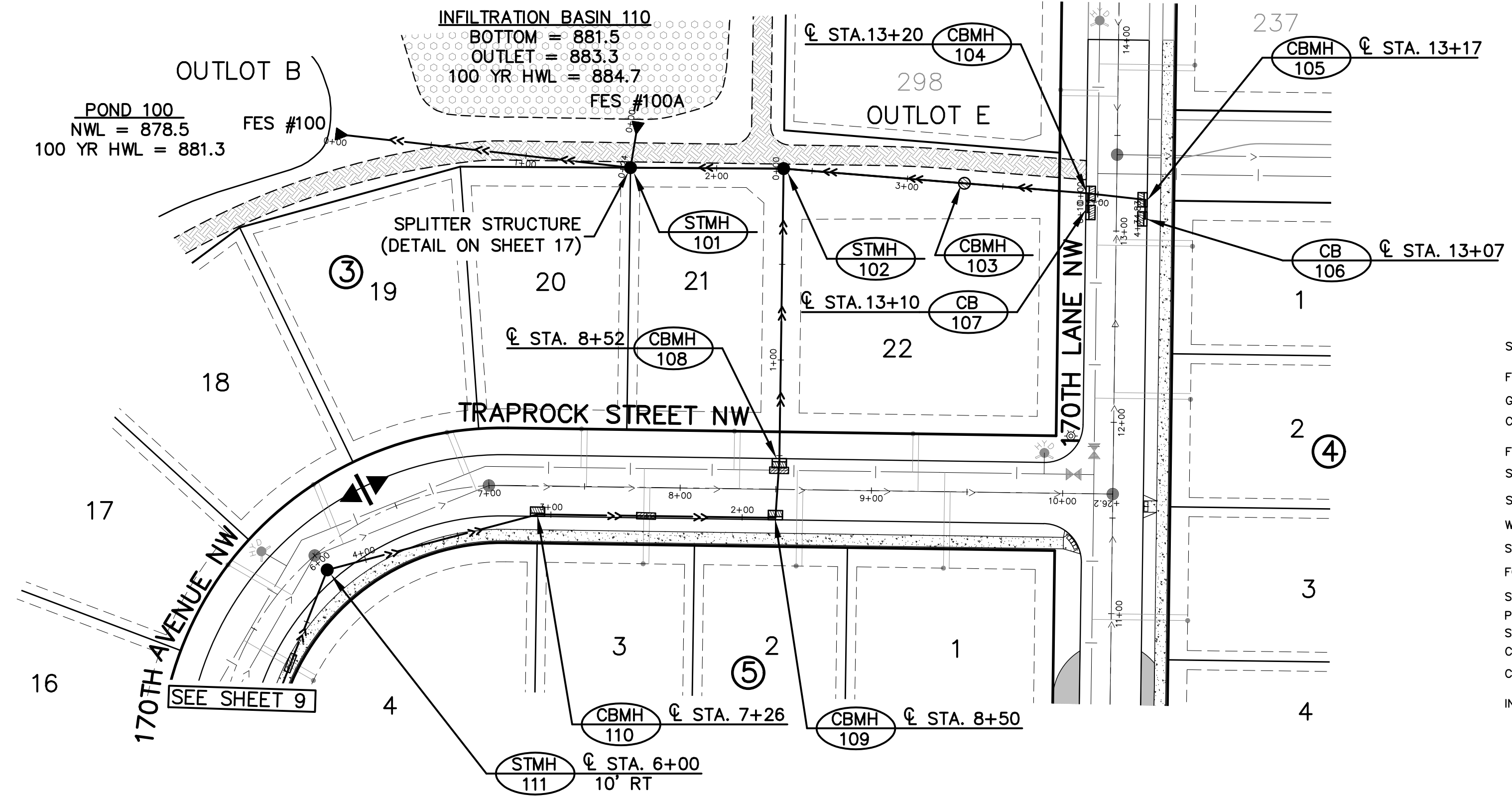
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**LEGEND**

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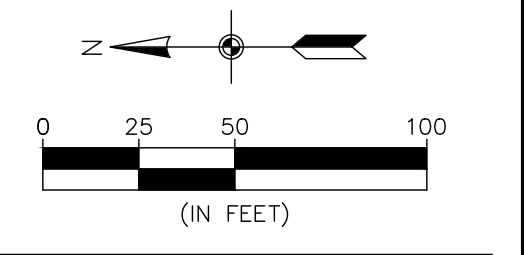


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|--|---|--|---|---|---|--|---|---|---|
| <p><b>CARLSON MCCAIN</b><br/>ENGINEERING SURVEYING ENVIRONMENTAL</p> | <p>3890 PHEASANT RIDGE DR NE<br/>SUITE 100<br/>BLAINE, MN 55449<br/>TEL 763.489.7900<br/>FAX 763.489.7959<br/>CARLSONMCCAIN.COM</p> | <p>I 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</p> | <p>Print Name: Brian J. Krystofiak, P.E.<br/>Signature: <i>Brian J. Krystofiak</i><br/>Date: 1/18/23 License #: 25063</p> | <p>Drawn: GJS<br/>Designed: BJK<br/>Date: 1/18/23</p> | <p>Revisions:<br/>1. 3/1/23 per City Comments</p> | <p><b>TWIN CITIES LAND DEVELOPMENT</b><br/>4800 Olson Memorial Highway, Suite 100<br/>Golden Valley, Minnesota 55422</p> | <p><b>TROTT BROOK CROSSING<br/>1ST ADDITION</b><br/>Ramsey, Minnesota</p> | <p><b>SANITARY SEWER &amp;<br/>WATER MAIN</b></p> | <p>7 of 19</p>  |
|  |   |  |   |   |   |  |   |   | <p>Save Date: 03/07/23 F:\jpb\9461 - 9480\9461 - trot brook\cad\C3D\engineering\final\plans\utility\1st addition\9461_utility.dwg</p> |

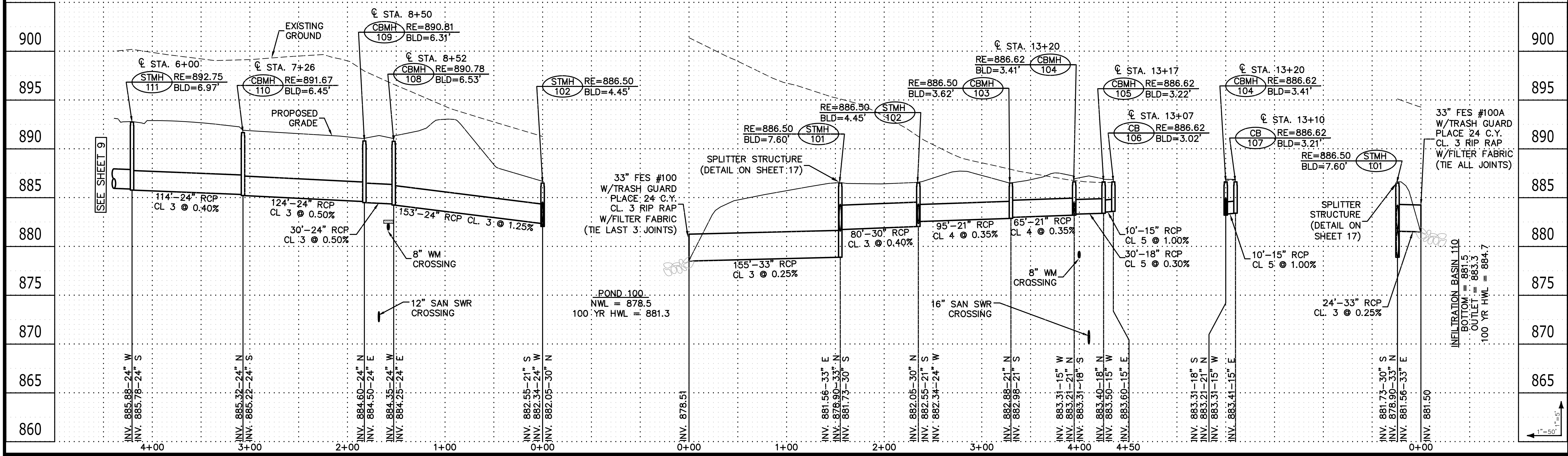


| STORM SEWER SCHEDULE |                         |        |
|----------------------|-------------------------|--------|
| STRUCTURE            | NEENAH CASTING or EQUAL |        |
| STMH-101             | 84" DIA.                | R-1733 |
| STMH-102             | 72" DIA.                | R-1733 |
| CBMH-103             | 48" DIA.                | R-2570 |
| CBMH-104             | 48" DIA.                | R-3067 |
| CBMH-105             | 48" DIA.                | R-3067 |
| CB-106               | 24"X36"                 | R-3067 |
| CB-107               | 24"X36"                 | R-3067 |
| CBMH-108             | 48" DIA.                | R-3067 |
| CBMH-109             | 60" DIA.                | R-3067 |
| CBMH-110             | 48" DIA.                | R-3067 |
| STMH-111             | 48" DIA.                | R-1733 |

- GENERAL NOTES:**
- INSTALL SEDIMENT CONTROL BARRIER INSERTS ON ALL CATCH BASINS (SEE DETAIL).
  - R-3067 SHALL HAVE BICYCLE SAFE GRATED BACK



| BENCHMARKS |   |
|------------|---|
| 1.         | Anoka County Benchmark No. 3077 - Elevation 901.84 ft. (NAVD88) |
| 2.         | Anoka County Benchmark No. 3078 - Elevation 867.97 ft. (NAVD88) |



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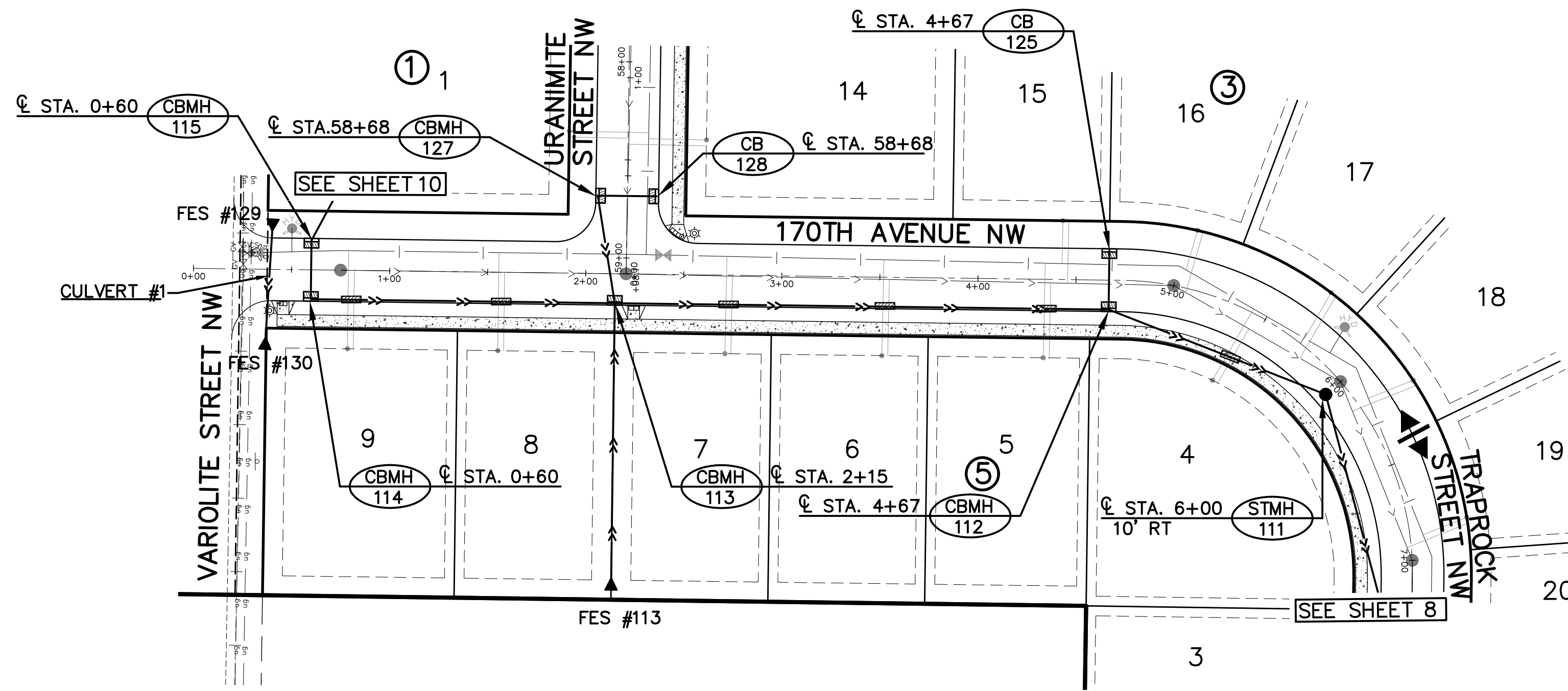
**TROTT BROOK CROSSING  
 1ST ADDITION**  
 Ramsey, Minnesota

**STORM SEWER**  
 8 of 19

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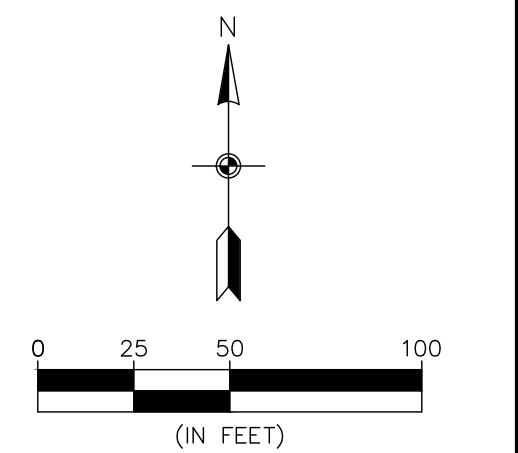
**LEGEND**

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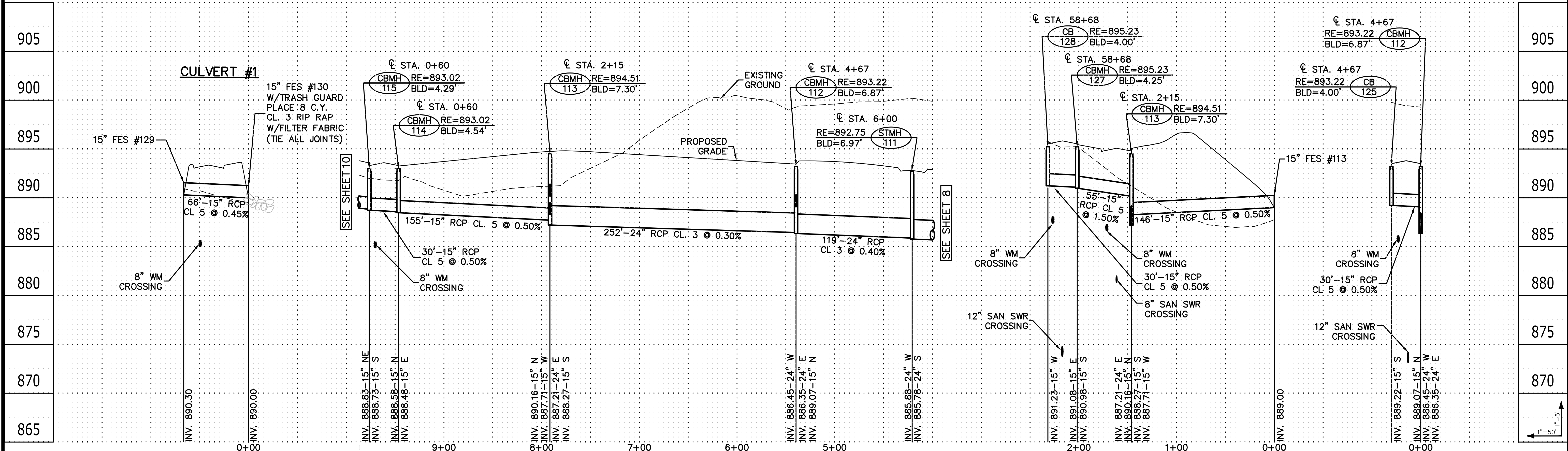


| STORM SEWER SCHEDULE |                         |          |
|----------------------|-------------------------|----------|
| STRUCTURE            | NEENAH CASTING or EQUAL |          |
| CBMH-112             | 60" DIA.                | R-3067   |
| CBMH-113             | 48" DIA.                | R-3067   |
| CBMH-114             | 48" DIA.                | R-3067   |
| CBMH-115             | 48" DIA.                | R-3067   |
| CB-125               | 24"X36"                 | R-3067   |
| CBMH-127             | 48" DIA.                | R-3246-R |
| CB-128               | 24"X36"                 | R-3246-R |

- GENERAL NOTES:**
- INSTALL SEDIMENT CONTROL BARRIER INSERTS ON ALL CATCH BASINS (SEE DETAIL).
  - R-3067 SHALL HAVE BICYCLE SAFE GRATED BACK



| BENCHMARKS   |  |
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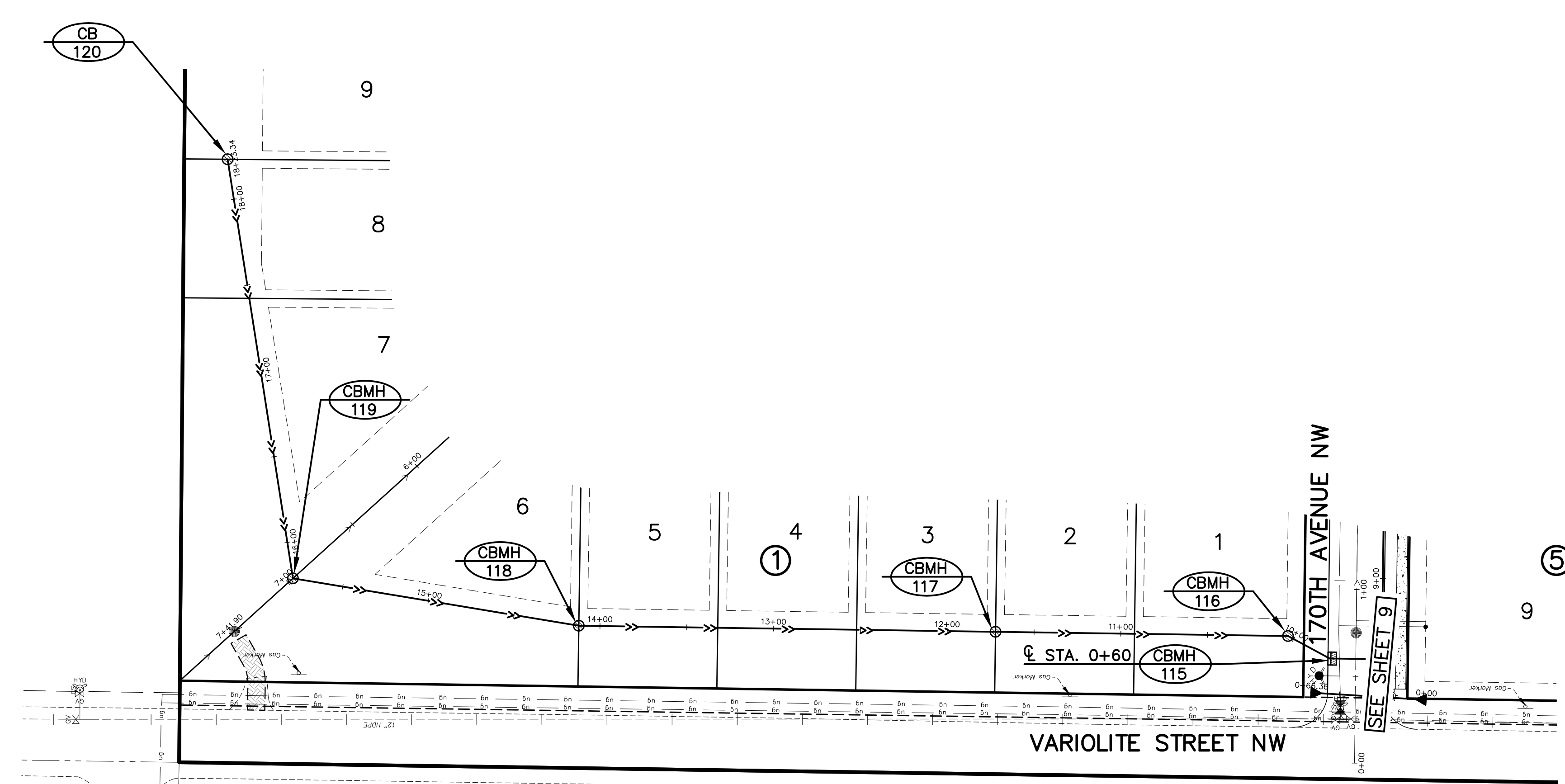
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 Golden Valley, Minnesota 55422

**TROTT BROOK CROSSING 1ST ADDITION**  
 Ramsey, Minnesota

**STORM SEWER**  
 9 of 19  
 #9461

**LEGEND**

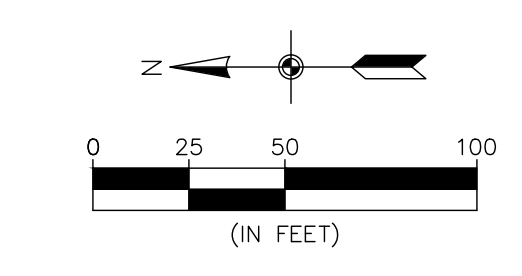
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| SANITARY MANHOLE   |          |          |
| FIRE HYDRANT       |          |          |
| GATE VALVE         |          |          |
| CATCH BASIN        |          |          |
| FLARED END SECTION |          |          |
| STORM MANHOLE      |          |          |
| SERVICE            |          |          |
| WATERMAIN          |          |          |
| SANITARY SEWER     |          |          |
| FORCEMAIN          |          |          |
| STORM SEWER        |          |          |
| PROPERTY LINE      |          |          |
| SETBACK LINE       |          |          |
| CURB               |          |          |
| CONCRETE SURFACE   |          |          |
| INSULATION         |          |          |



**STORM SEWER SCHEDULE**

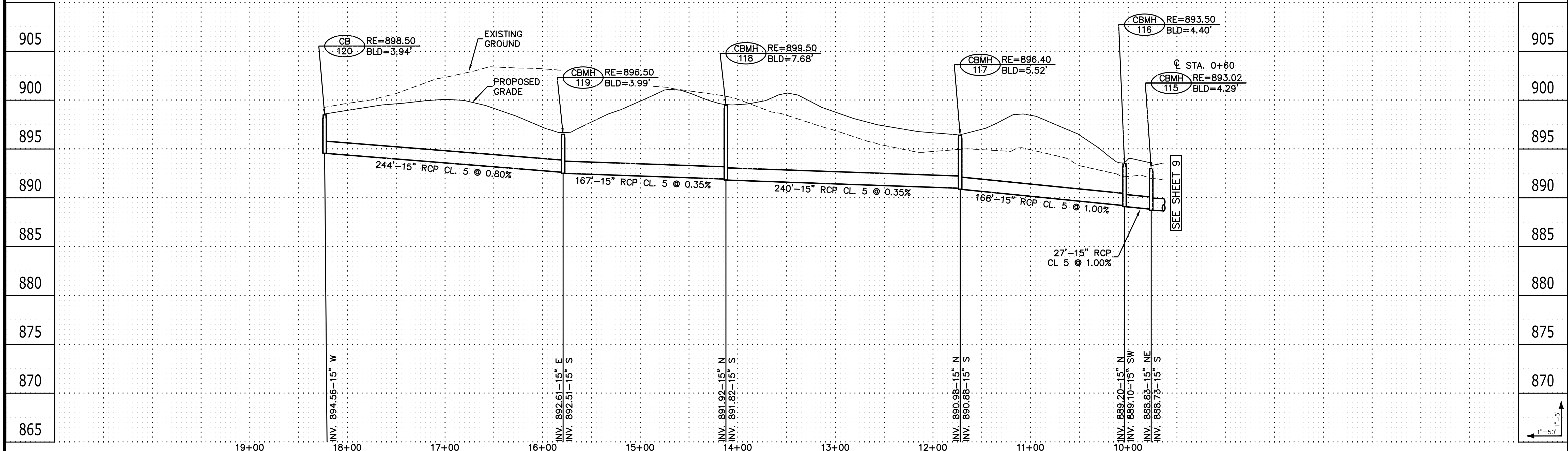
| STRUCTURE | NEENAH CASTING or EQUAL |        |
|-----------|-------------------------|--------|
|           | TYPE & No.              | SIZE   |
| CBMH-116  | 48" DIA.                | R-2570 |
| CBMH-117  | 48" DIA.                | R-2570 |
| CBMH-118  | 48" DIA.                | R-2570 |
| CBMH-119  | 48" DIA.                | R-2570 |
| CB-120    | 27" DIA.                | R-2570 |

- GENERAL NOTES:**
- INSTALL SEDIMENT CONTROL BARRIER INSERTS ON ALL CATCH BASINS (SEE DETAIL).
  - R-3067 SHALL HAVE BICYCLE SAFE GRATED BACK



**BENCHMARKS**

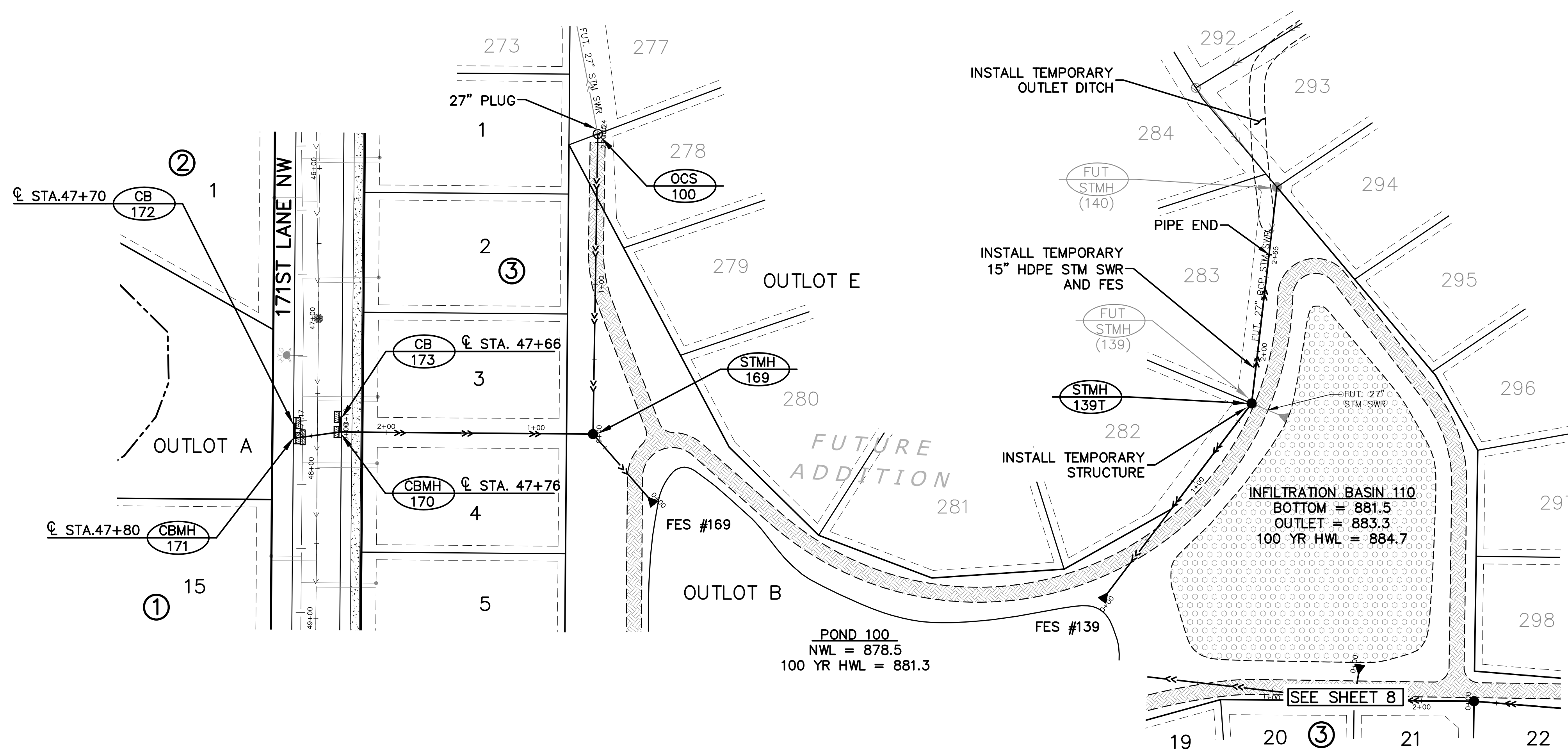
- Anoka County Benchmark No. 3077 - Elevation 901.84 ft. (NAVD88)
- Anoka County Benchmark No. 3078 - Elevation 867.97 ft. (NAVD88)



|  |   |  |  |   |   |  |   |                           |                 |
|--|---|--|--|---|---|--|---|---------------------------|-----------------|
| <p><b>CARLSON McCAIN</b><br/>ENGINEERING SURVEYING ENVIRONMENTAL</p> | <p>3890 PHEASANT RIDGE DR NE<br/>SUITE 100<br/>BLAINE, MN 55449<br/>TEL 763.489.7900<br/>FAX 763.489.7959<br/>CARLSONMCCAIN.COM</p> | <p>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</p> | <p>Print Name: Brian J. Krystofiak, P.E.<br/>Signature: <i>Brian J. Krystofiak</i><br/>Date: 1/18/23 License #: 25063</p>            | <p>Drawn: GJS<br/>Designed: BJK<br/>Date: 1/18/23</p> | <p>Revisions:<br/>1. 3/1/23 per City Comments</p> | <p><b>TWIN CITIES LAND DEVELOPMENT</b><br/>4800 Olson Memorial Highway, Suite 100<br/>Golden Valley, Minnesota 55422</p> | <p><b>TROTT BROOK CROSSING<br/>1ST ADDITION</b><br/>Ramsey, Minnesota</p> | <p><b>STORM SEWER</b></p> | <p>10 of 19</p> |
|  |   |  | <p>Save Date: 03/07/23 F:\jbs\9461 - 9480\9461 - trot brook\cad\3d\engineering\final\plans\utility\1st addition\9461_utility.dwg</p> | <p>#9461</p>  |   |  |   |                           |                 |

**LEGEND**

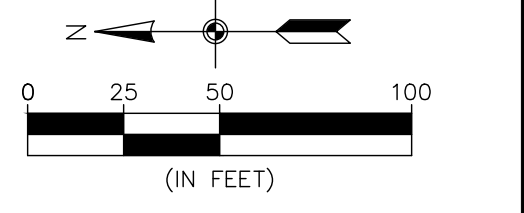
|                    | EXISTING | PROPOSED |
|--------------------|----------|----------|
| SANITARY MANHOLE   |          |          |
| FIRE HYDRANT       |          |          |
| GATE VALVE         |          |          |
| CATCH BASIN        |          |          |
| FLARED END SECTION |          |          |
| STORM MANHOLE      |          |          |
| SERVICE            |          |          |
| WATERMAIN          |          |          |
| SANITARY SEWER     |          |          |
| FORCEMAIN          |          |          |
| STORM SEWER        |          |          |
| PROPERTY LINE      |          |          |
| SETBACK LINE       |          |          |
| CURB               |          |          |
| CONCRETE SURFACE   |          |          |
| INSULATION         |          |          |



**STORM SEWER SCHEDULE**

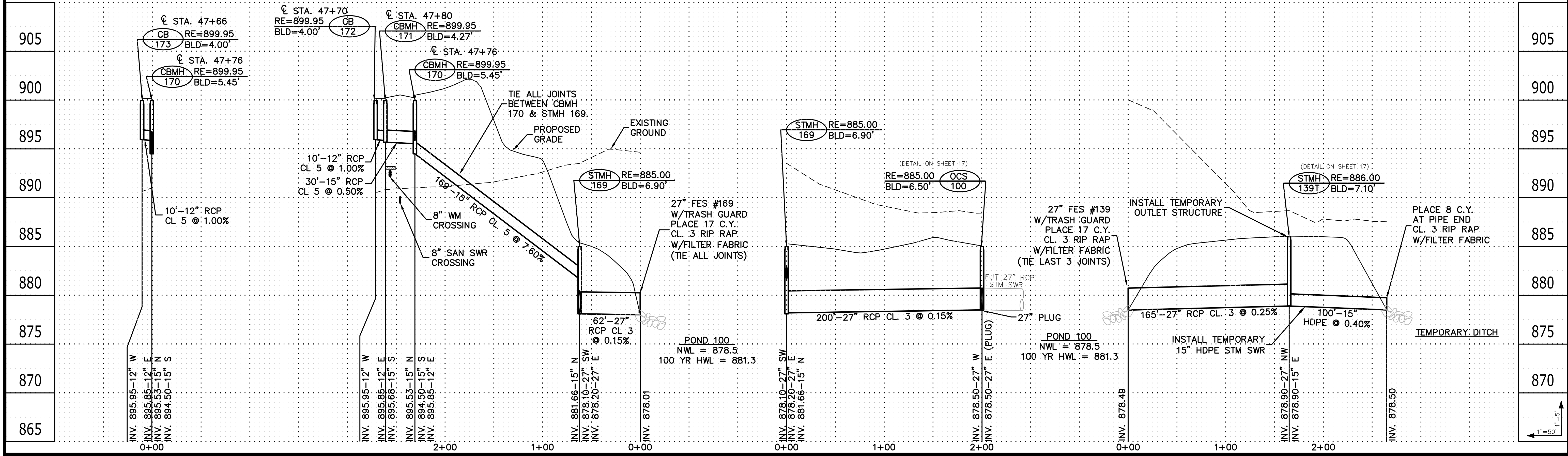
| STRUCTURE  |                       | NEENAH CASTING or EQUAL |
|------------|-----------------------|-------------------------|
| TYPE & No. | SIZE                  |                         |
| OCS-100    | (SEE DETAIL SHEET ##) |                         |
| STMH-139T  | 48" DIA.              | R-1733                  |
| STMH-169   | 48" DIA.              | R-1733                  |
| CBMH-170   | 48" DIA.              | R-3067                  |
| CBMH-171   | 48" DIA.              | R-3067                  |
| CB-172     | 24"X36"               | R-3067                  |
| CB-173     | 24"X36"               | R-3067                  |

- GENERAL NOTES:**
- INSTALL SEDIMENT CONTROL BARRIER INSERTS ON ALL CATCH BASINS (SEE DETAIL).
  - R-3067 SHALL HAVE BICYCLE SAFE GRATED BACK



**BENCHMARKS**

|  |
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| 1. Anoka County Benchmark No. 3077 - Elevation 901.84 ft. (NAVD88) |
| 2. Anoka County Benchmark No. 3078 - Elevation 867.97 ft. (NAVD88) |



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 Signature: *Brian J. Krystofiak, P.E.*  
 Date: 1/18/23 License #: 25063  
 Drawn: GJS  
 Designed: BJK  
 Date: 1/18/23

Revisions:  
 1. 3/1/23 per City Comments

**TWIN CITIES LAND DEVELOPMENT**  
 4800 Olson Memorial Highway, Suite 100  
 Golden Valley, Minnesota 55422

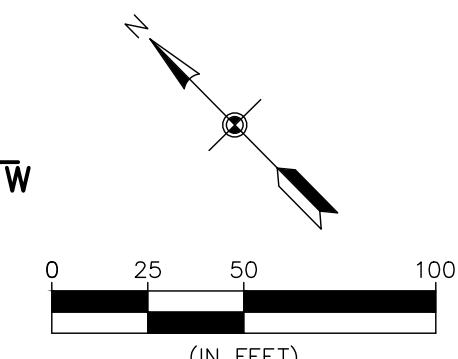
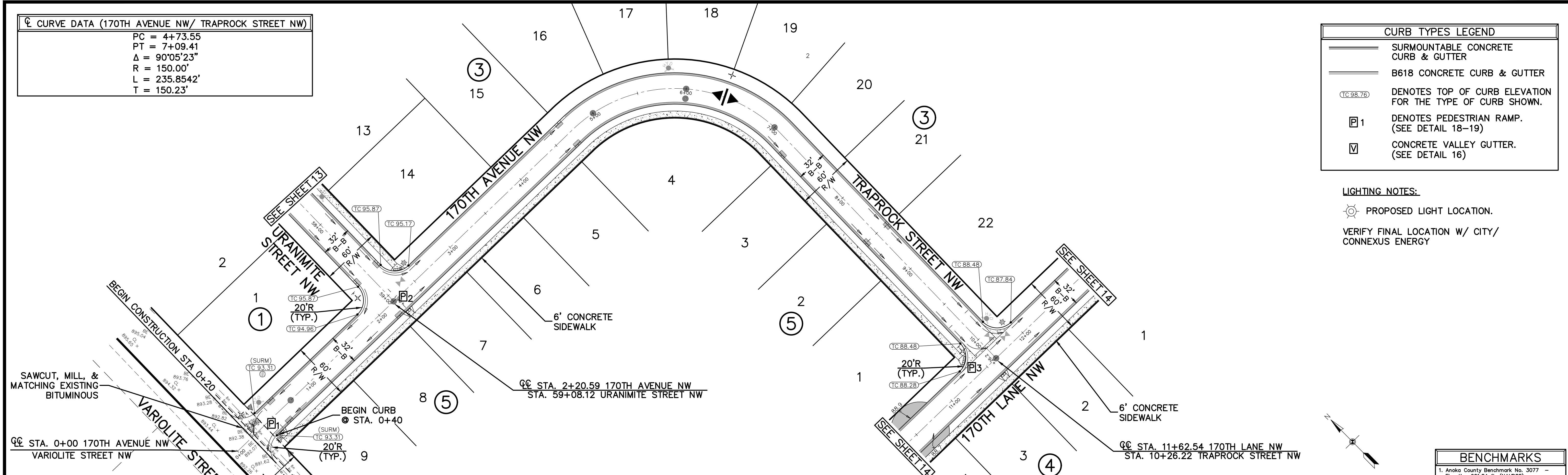
**TROTT BROOK CROSSING 1ST ADDITION**  
 Ramsey, Minnesota

**STORM SEWER**  
 11 of 19  
 #9461

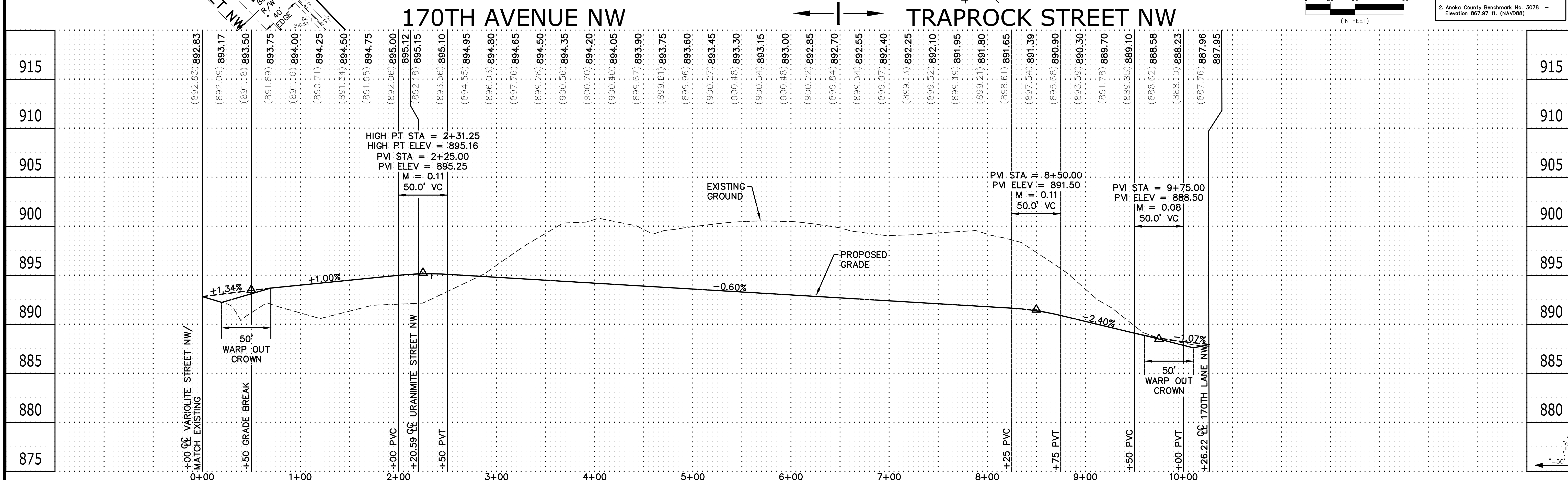
| CURVE DATA (170TH AVENUE NW/ TRAPROCK STREET NW) |             |
|--|-------------|
| PC   | = 4+73.55   |
| PT   | = 7+09.41   |
| $\Delta$   | = 90°05'23" |
| R  | = 150.00'   |
| L  | = 235.8542' |
| T  | = 150.23'   |

| CURB TYPES LEGEND |   |
|-------------------|---|
|                   | SURMOUNTABLE CONCRETE CURB & GUTTER                       |
|                   | B618 CONCRETE CURB & GUTTER                               |
|                   | DENOTES TOP OF CURB ELEVATION FOR THE TYPE OF CURB SHOWN. |
|                   | DENOTES PEDESTRIAN RAMP. (SEE DETAIL 18-19)               |
|                   | CONCRETE VALLEY GUTTER. (SEE DETAIL 16)                   |

**LIGHTING NOTES:**  
 PROPOSED LIGHT LOCATION.  
 VERIFY FINAL LOCATION W/ CITY/ CONNEXUS ENERGY



| BENCHMARKS |   |
|------------|---|
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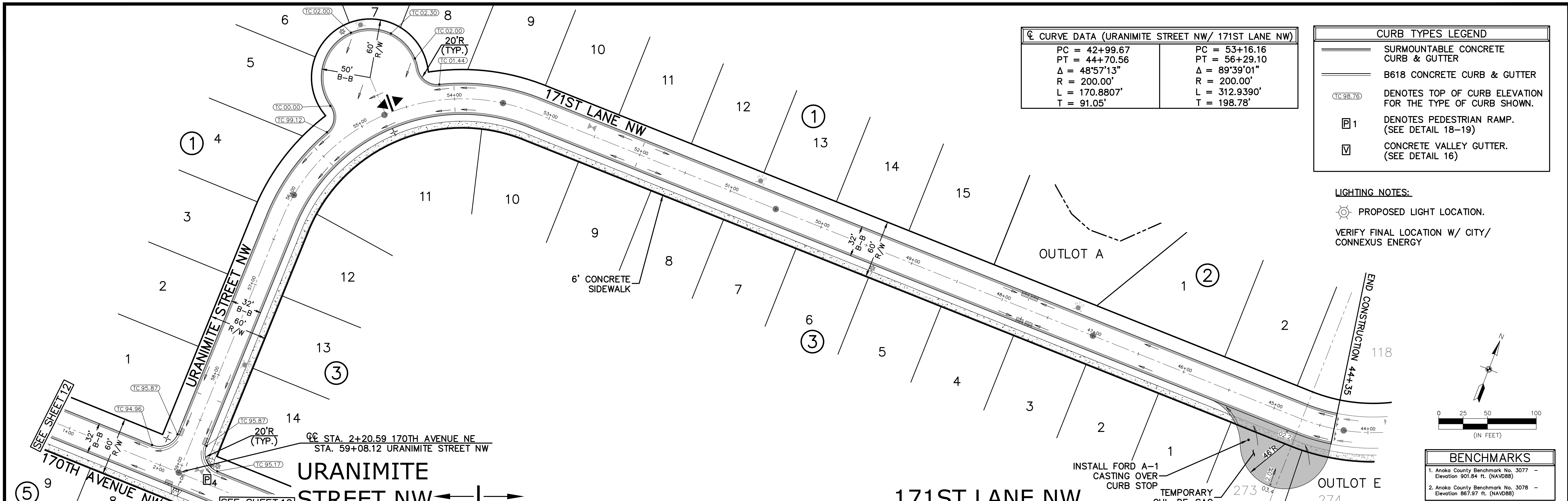
Revisions:  
 1. 3/1/23 per City Comments

**TWIN CITIES LAND DEVELOPMENT**  
 4800 Olson Memorial Highway, Suite 100  
 Golden Valley, Minnesota 55422

**TROTT BROOK CROSSING 1ST ADDITION**  
 Ramsey, Minnesota

**STREET CONSTRUCTION** 12 of 19

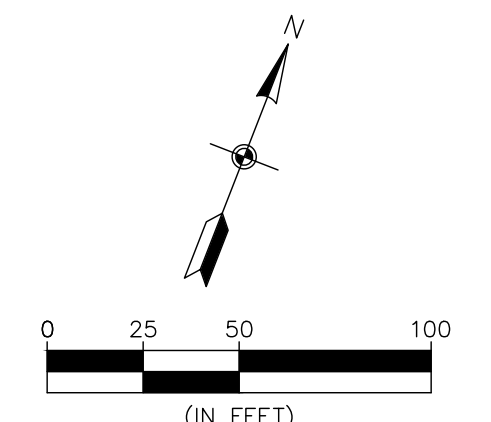
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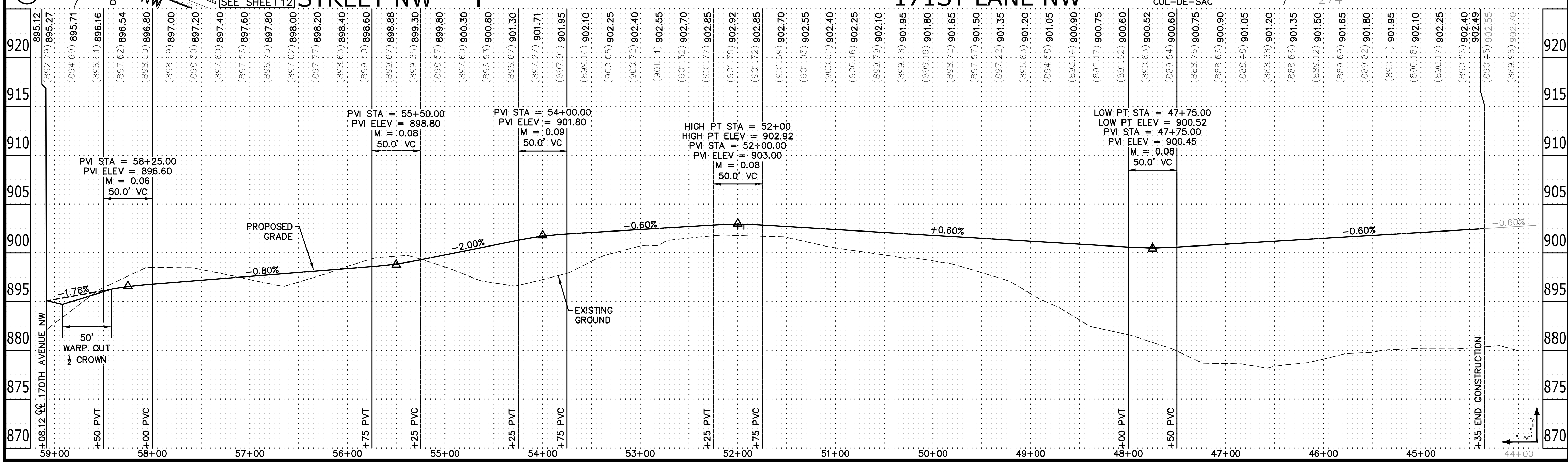
| CURVE DATA (URANIMITE STREET NW/ 171ST LANE NW) |               |
|---|---------------|
| PC = 42+99.67                                   | PC = 53+16.16 |
| PT = 44+70.56                                   | PT = 56+29.10 |
| Δ = 48°57'13"                                   | Δ = 89°39'01" |
| R = 200.00'                                     | R = 200.00'   |
| L = 170.8807'                                   | L = 312.9390' |
| T = 91.05'                                      | T = 198.78'   |

| CURB TYPES LEGEND |   |
|-------------------|---|
|                   | SURMOUNTABLE CONCRETE CURB & GUTTER                       |
|                   | B618 CONCRETE CURB & GUTTER                               |
|                   | DENOTES TOP OF CURB ELEVATION FOR THE TYPE OF CURB SHOWN. |
|                   | DENOTES PEDESTRIAN RAMP. (SEE DETAIL 18-19)               |
|                   | CONCRETE VALLEY GUTTER. (SEE DETAIL 16)                   |

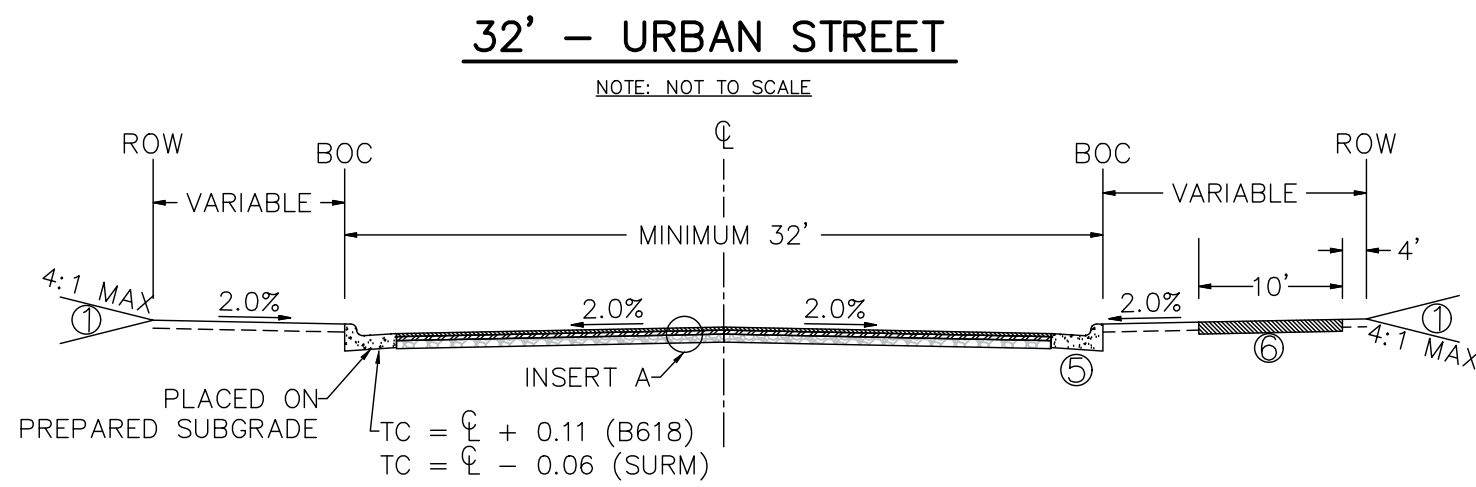
**LIGHTING NOTES:**  
 PROPOSED LIGHT LOCATION.  
 VERIFY FINAL LOCATION W/ CITY/ CONNEXUS ENERGY



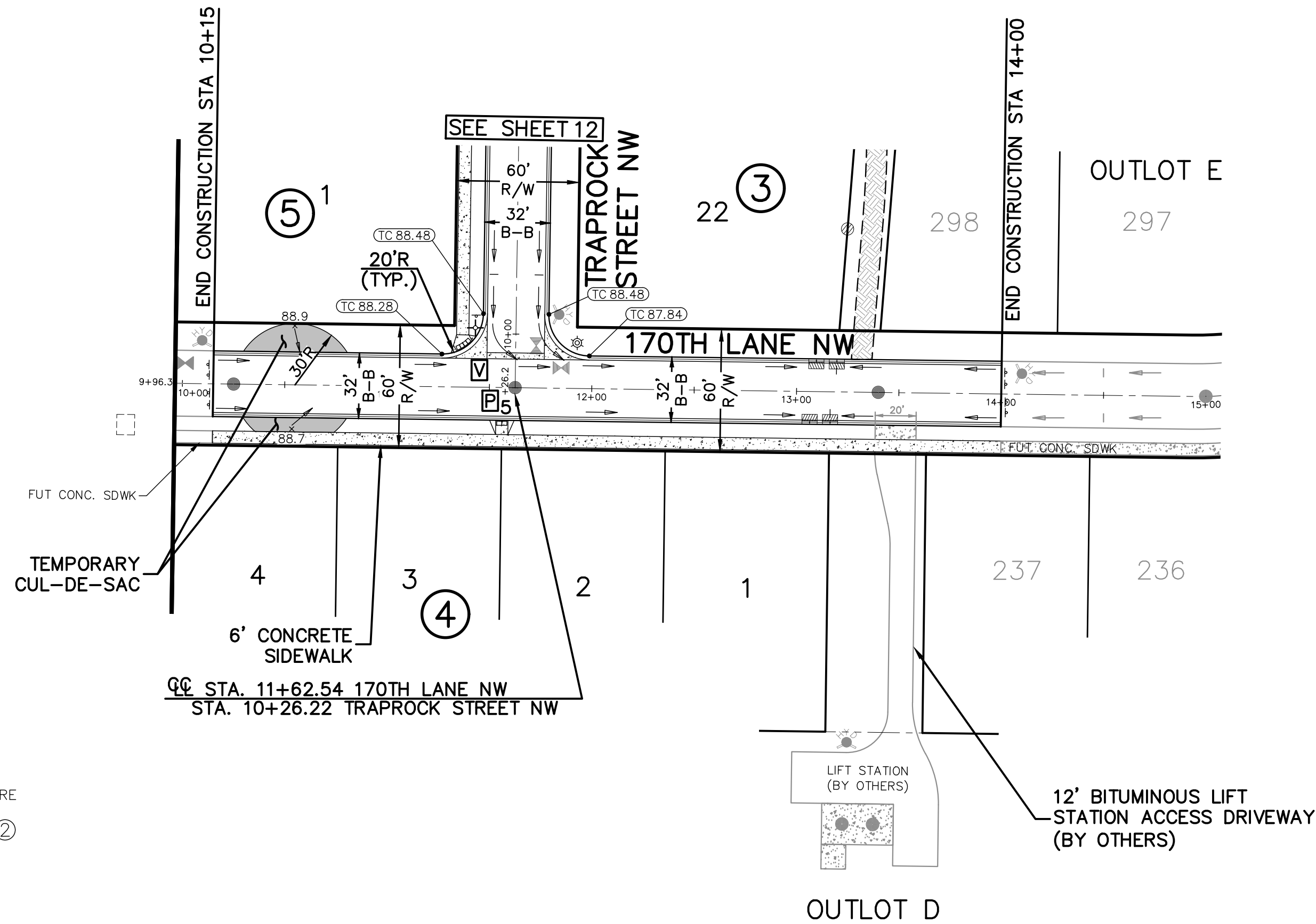
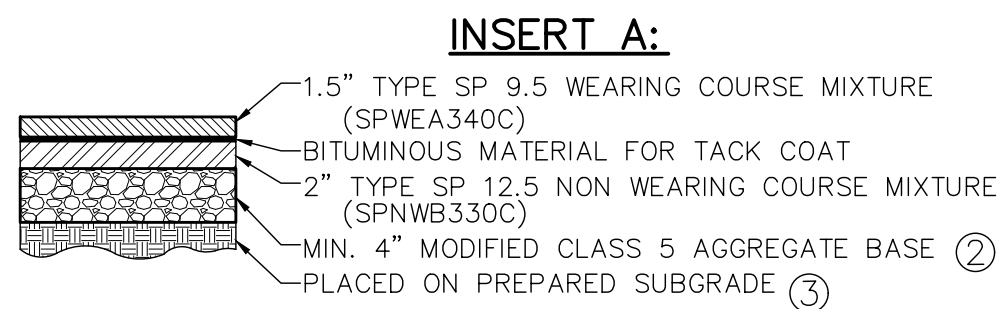
| BENCHMARKS |   |
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|  |  |   |  |   |   |   |                            |          |
|--|--|---|--|---|---|---|----------------------------|----------|
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|  |  |   |  |   |   |   |                            |          |



- REFERENCE NOTES:**
- GRADE TO MATCH EXISTING SURFACE MINIMUM 4" COMMON TOPSOIL BORROW IN BOULEVARDS. SEE CITY PLATE No. ERO-6
  - CLASS 5 GRADATION IS MODIFIED PER CITY PLATE No. STR-26
  - CONTRACTOR SHALL SCARIFY AND COMPACT, ACCORDING TO THE SPECIFIED DENSITY METHOD, THE TOP 12 INCHES OF MATERIAL PRIOR TO PLACING ANY FILL MATERIALS OR CLASS 5 AGGREGATE BASE.
  - ALL SIDEWALKS SHALL BE 6" THICK, 6' WIDE, PLACED ON PREPARED SUBGRADE.
  - CONCRETE CURB AND GUTTER PER PLAN. SEE CITY PLATE No. STR-1.
  - BITUMINOUS TRAIL. SEE CITY PLATE No. PARK-1.

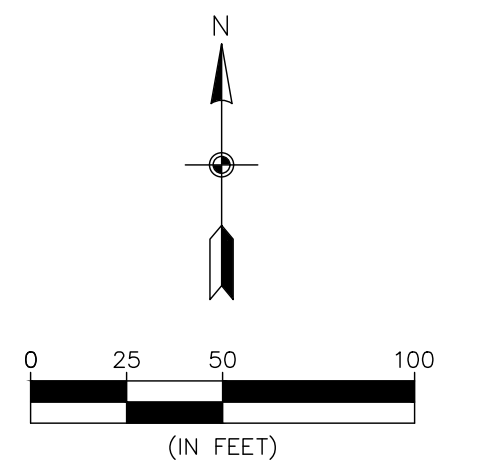


| CURB TYPES LEGEND |   |
|-------------------|---|
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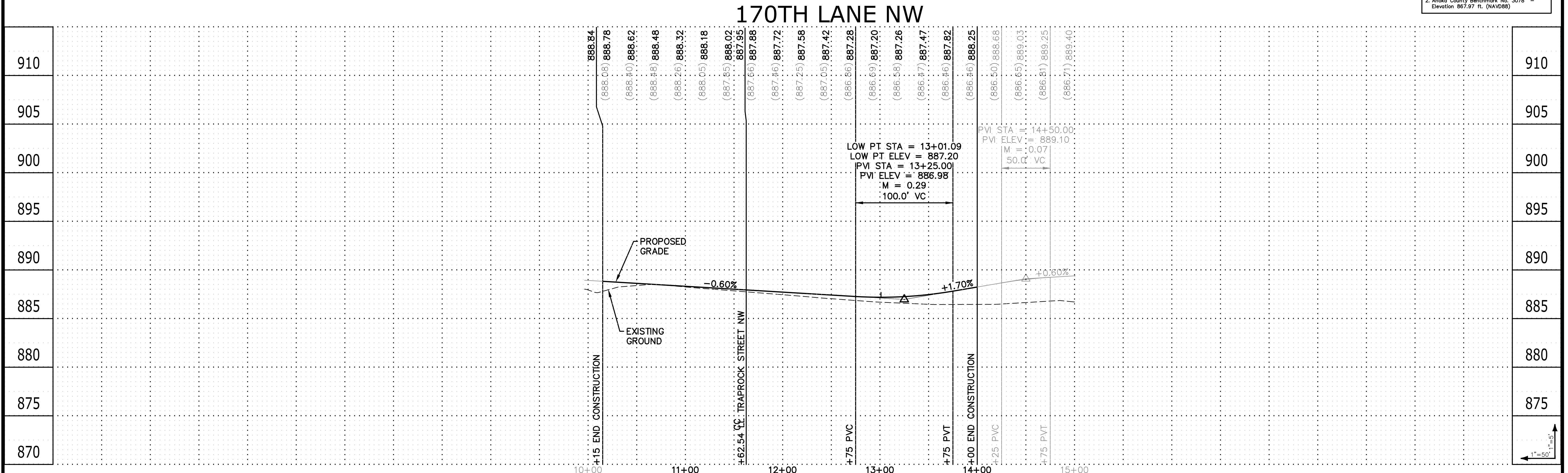
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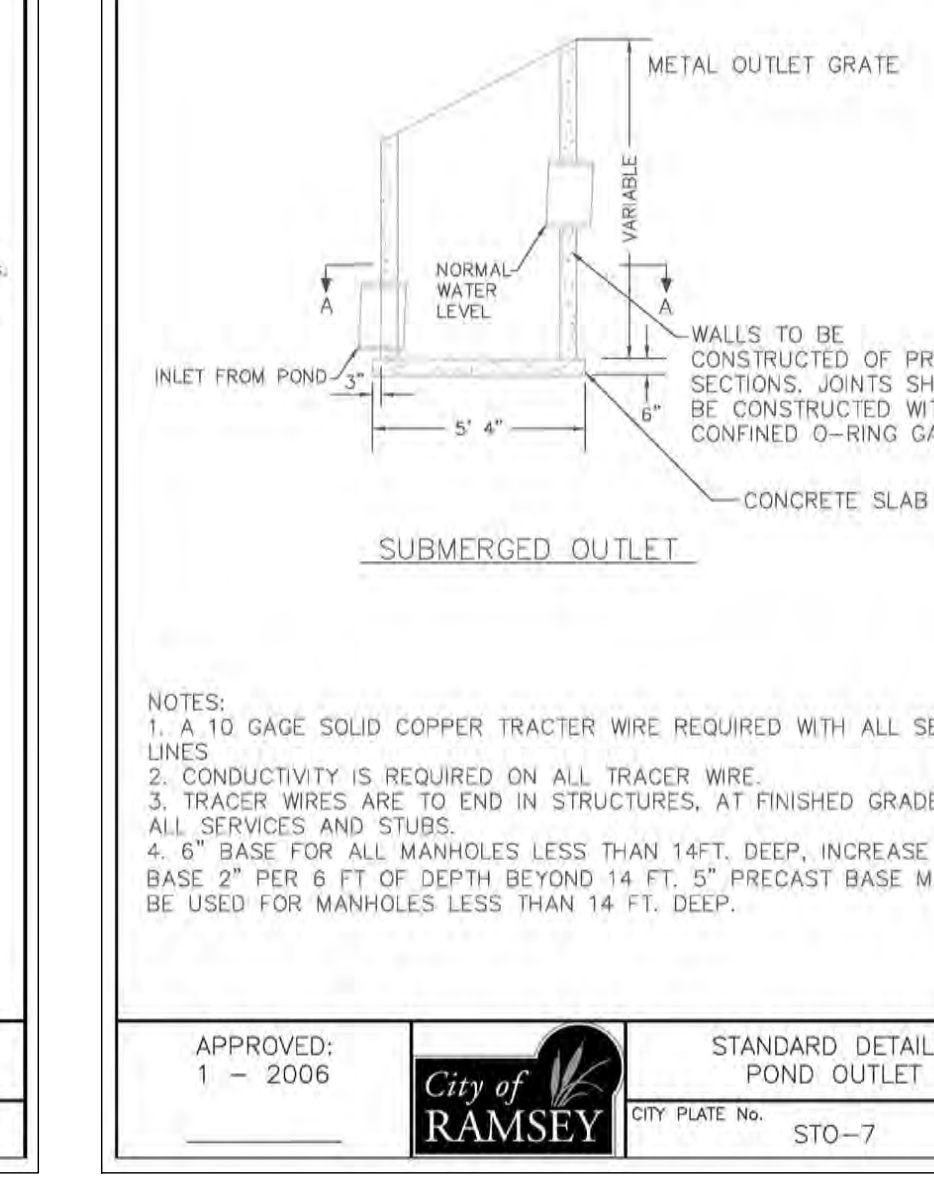
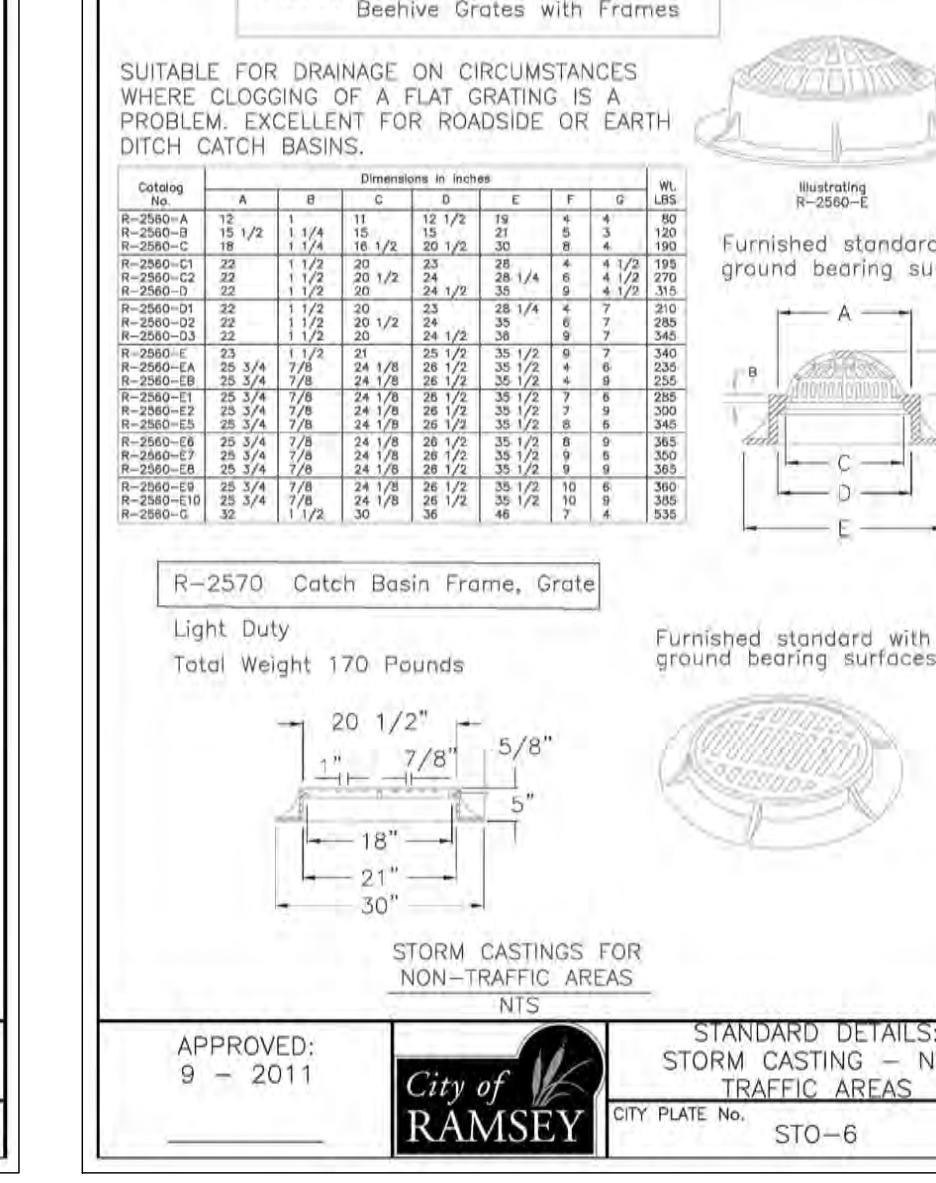
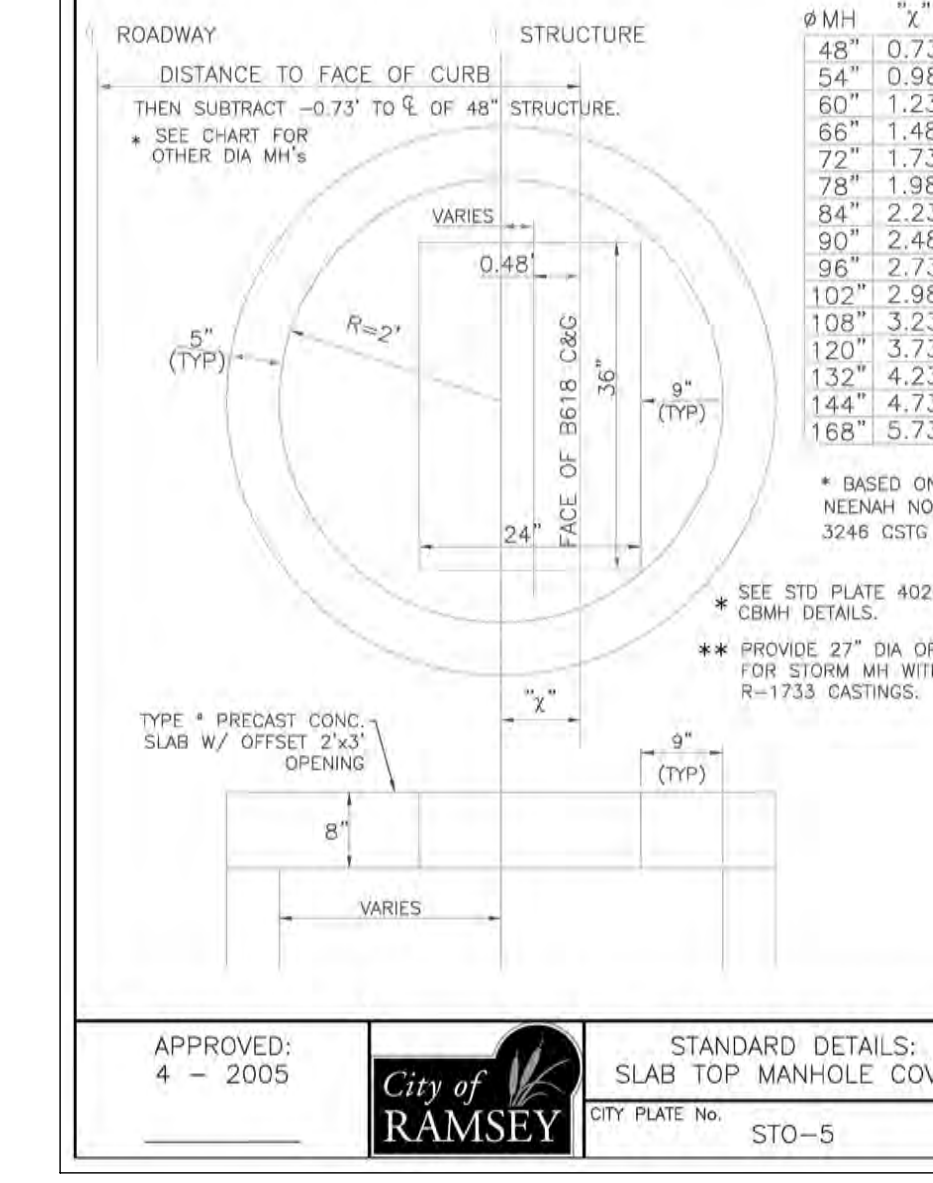
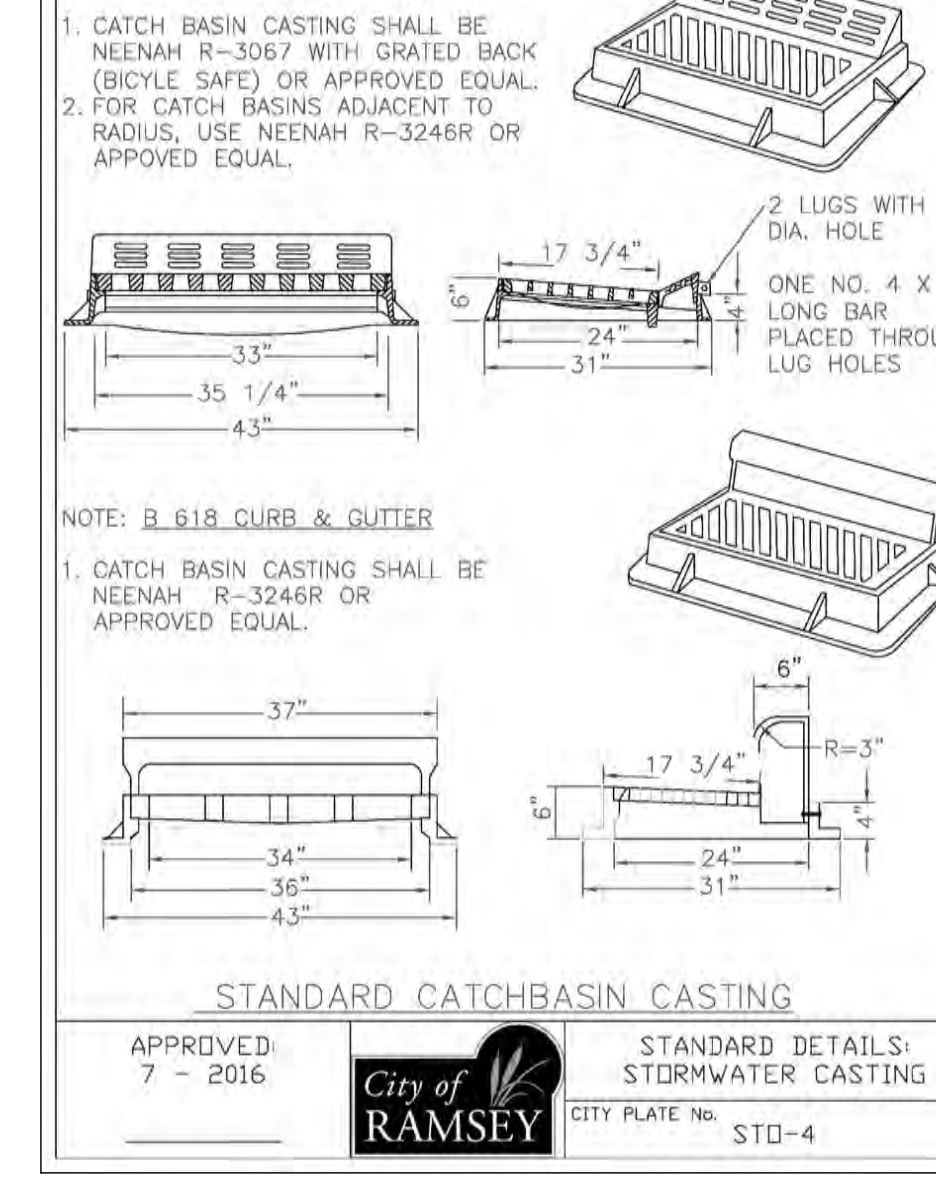
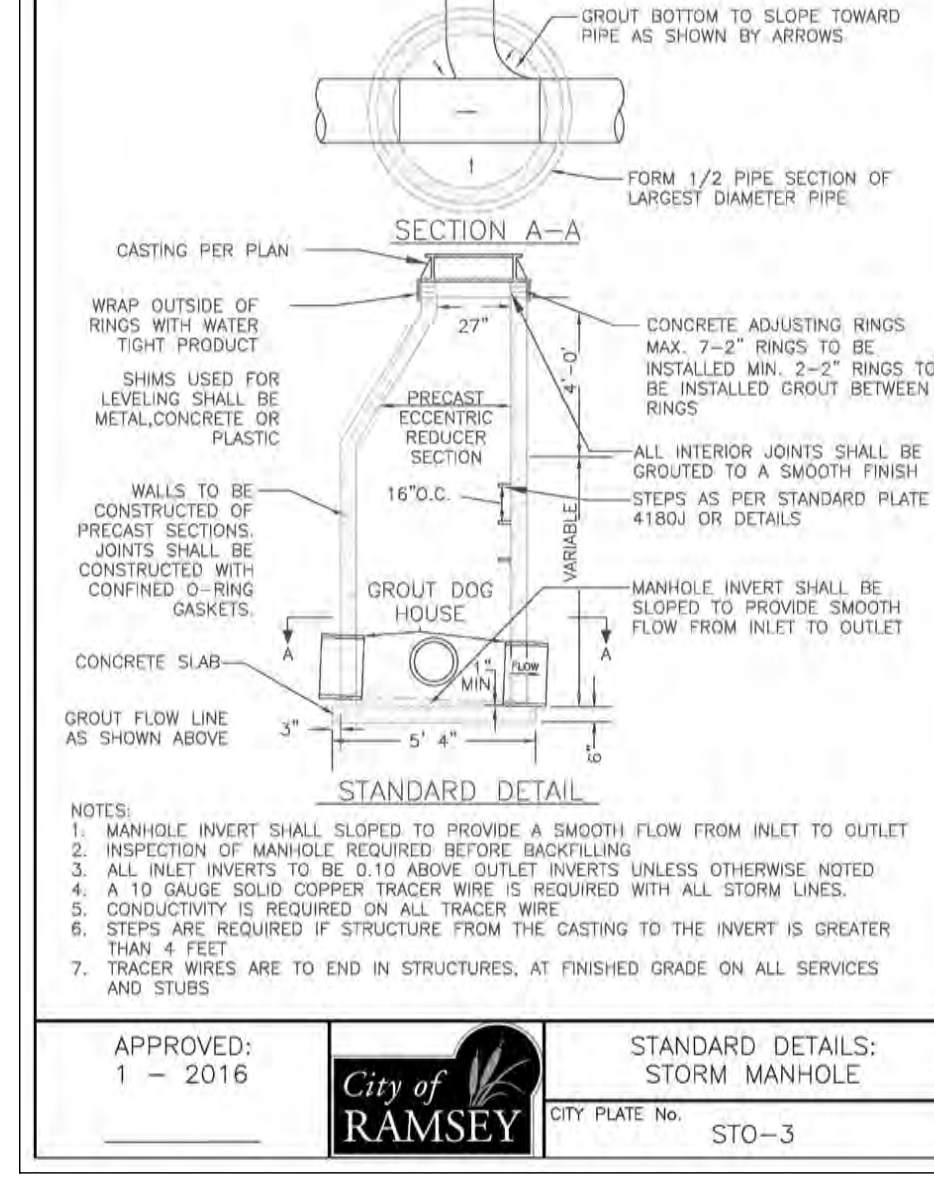
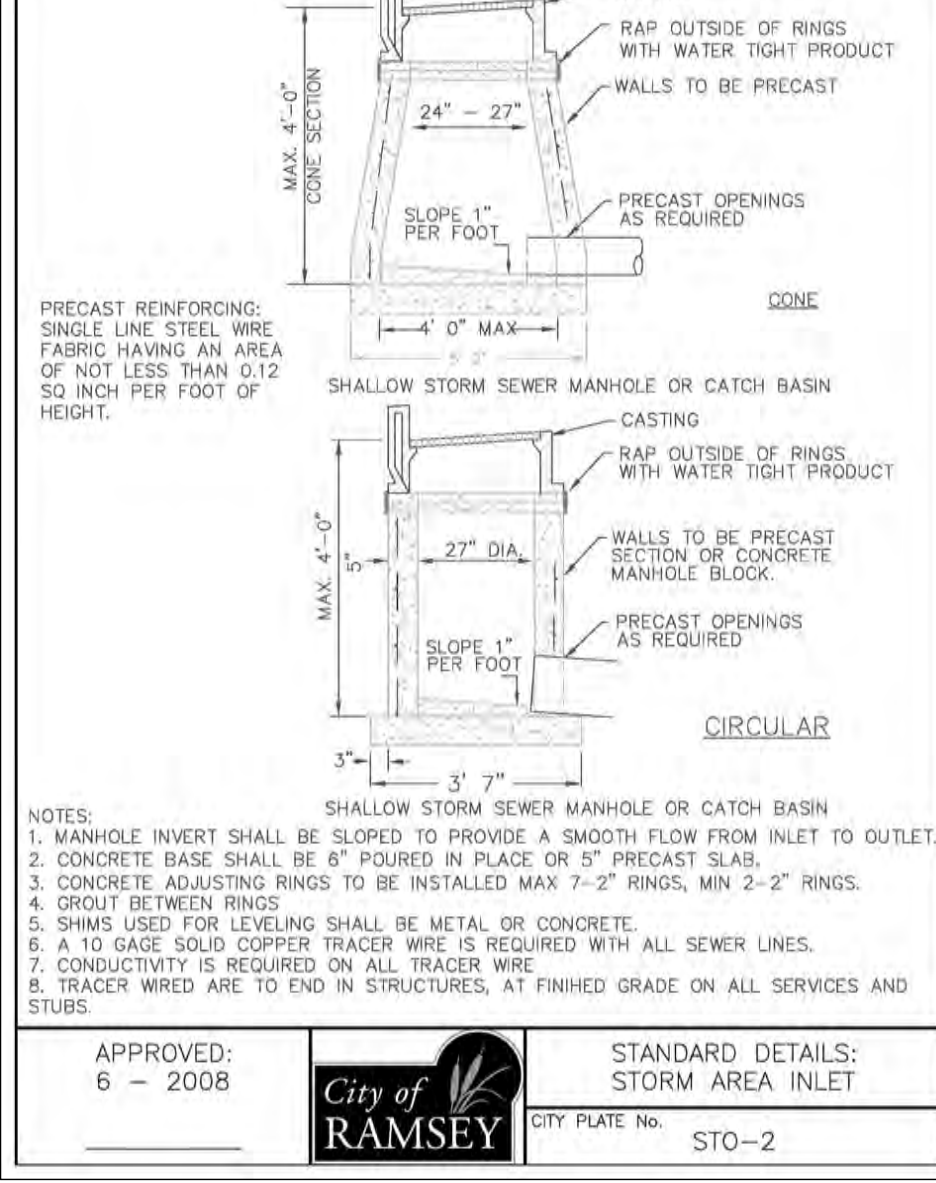
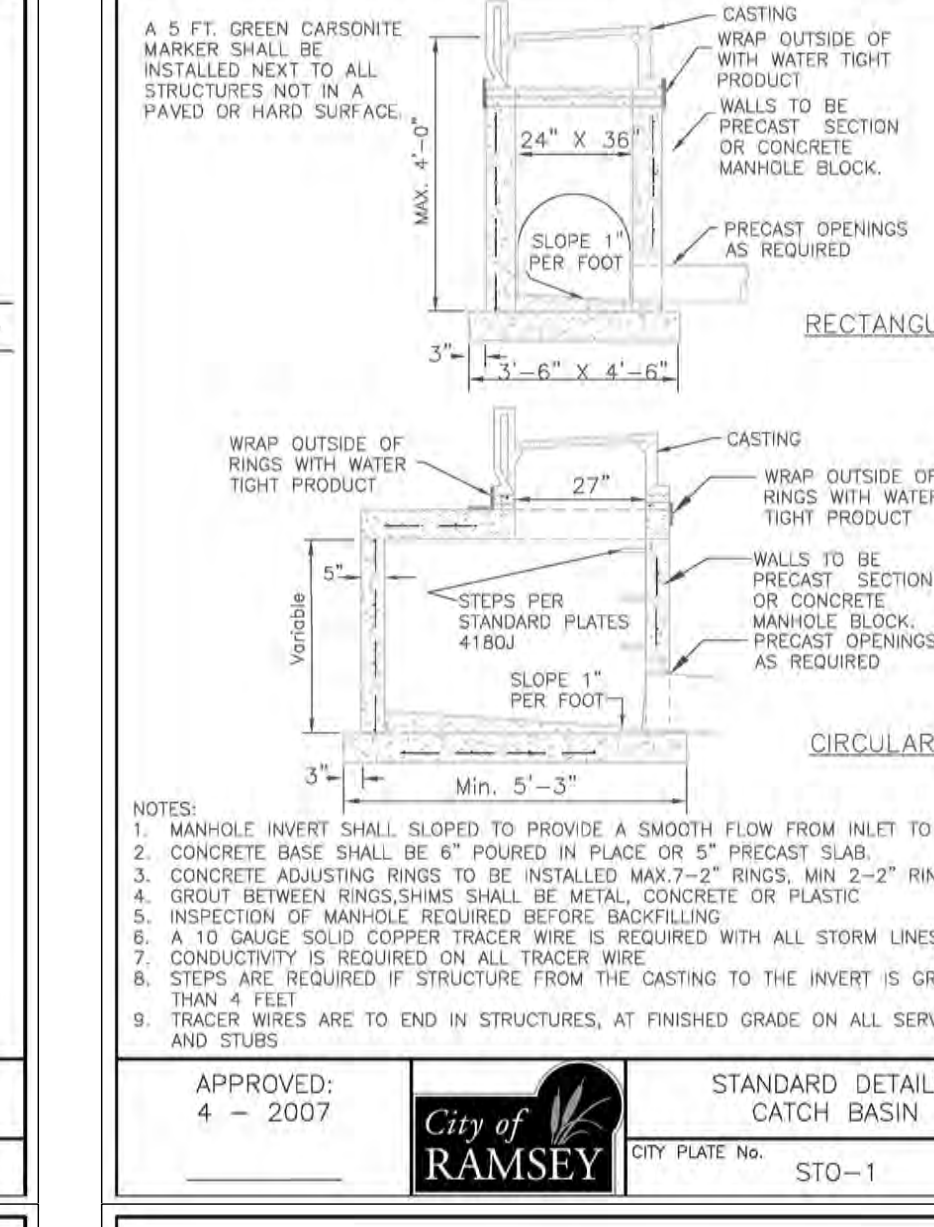
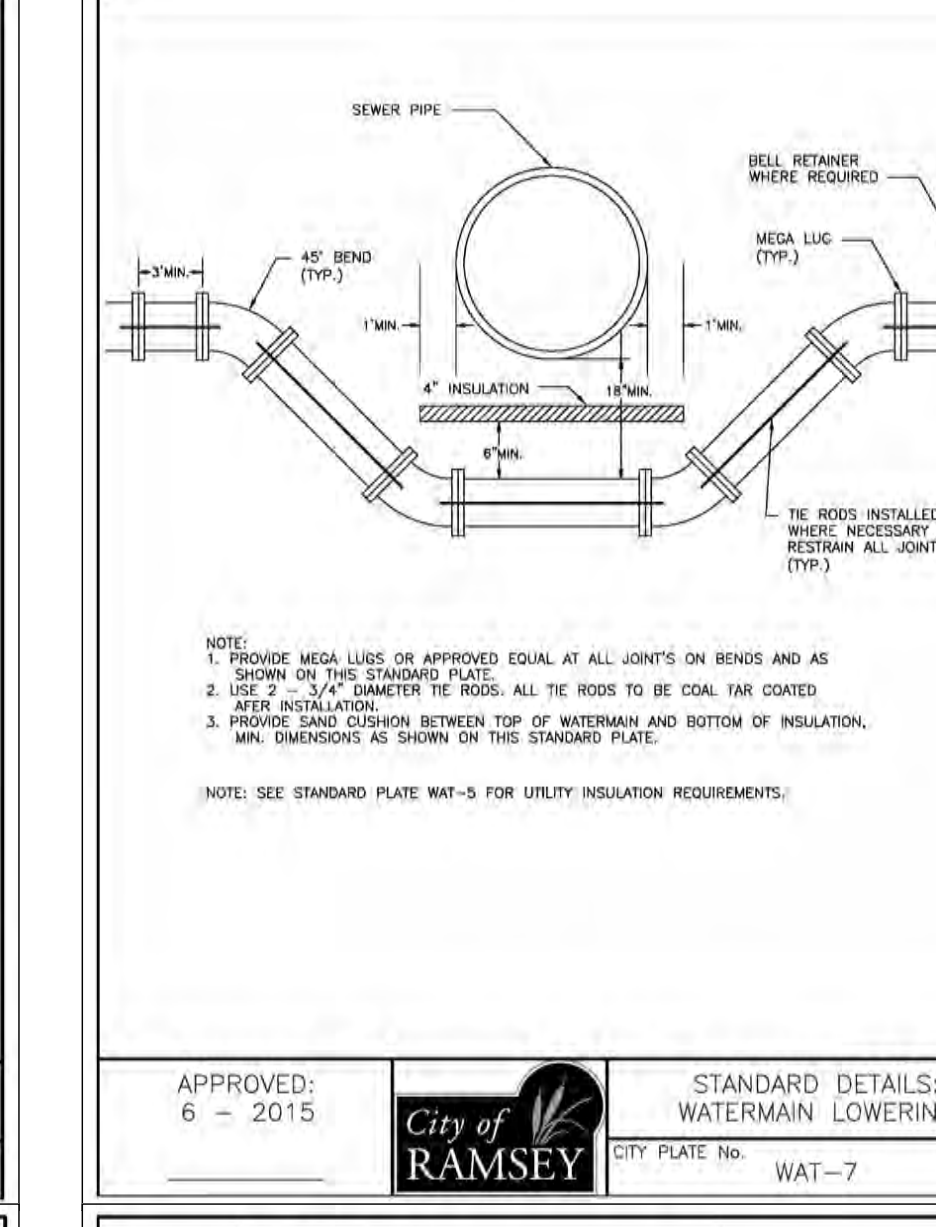
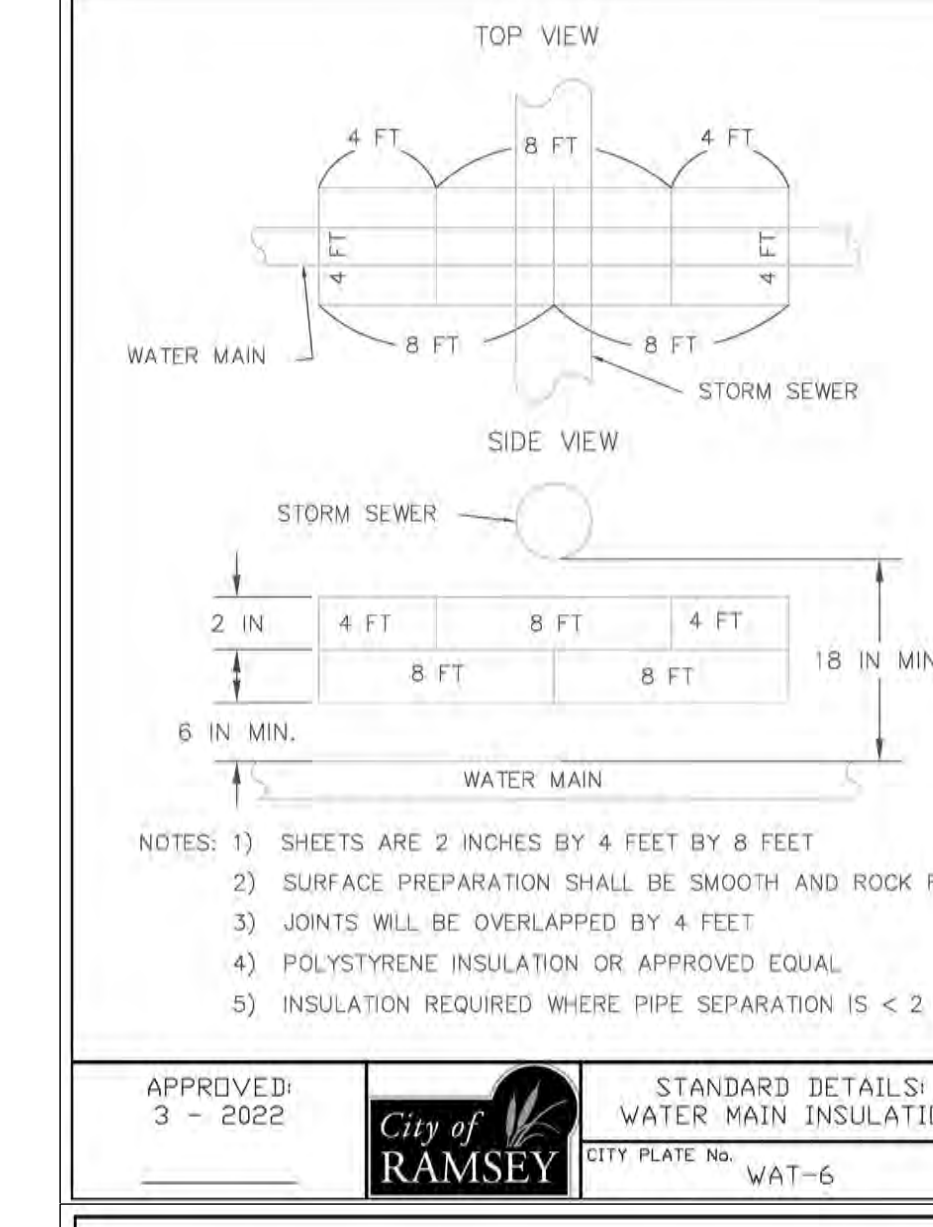
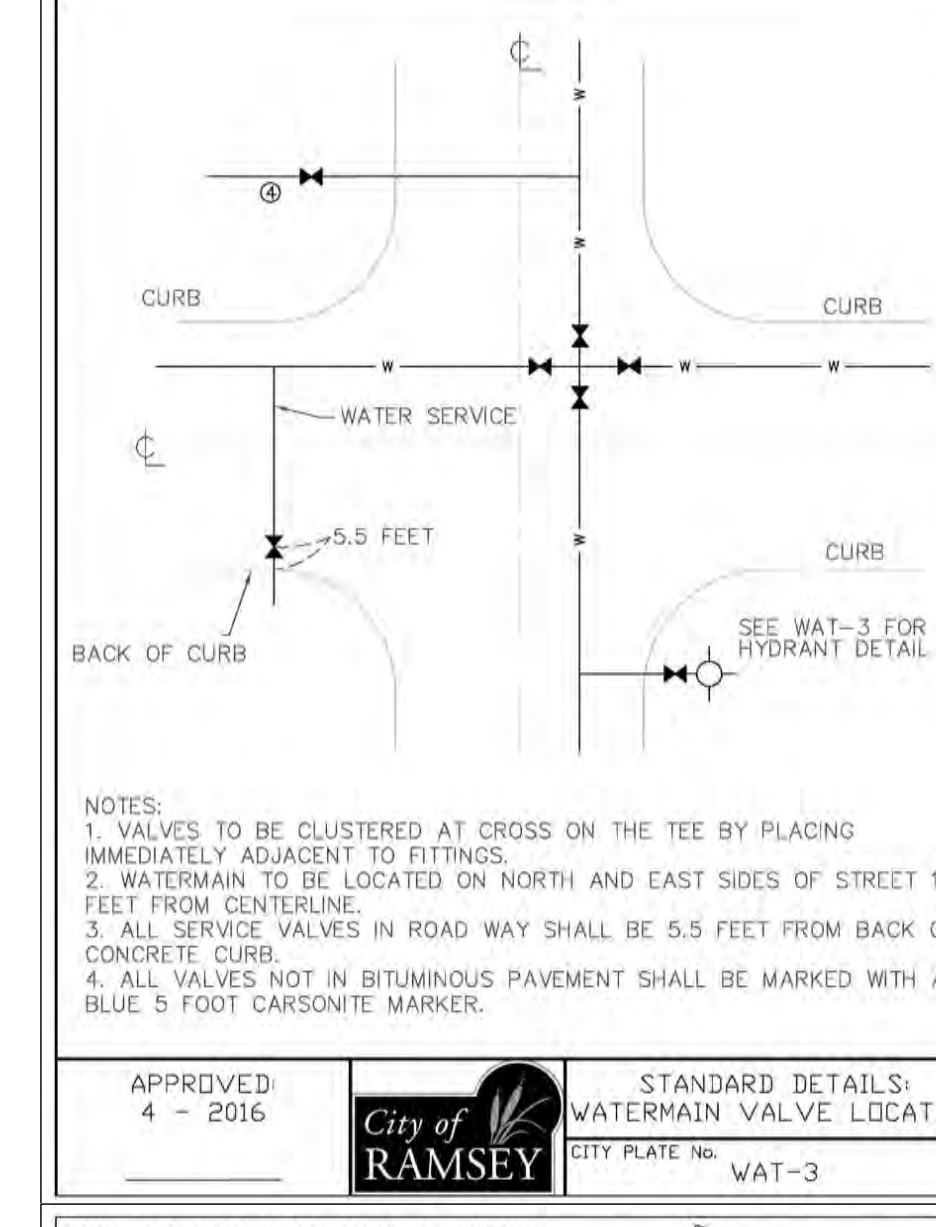
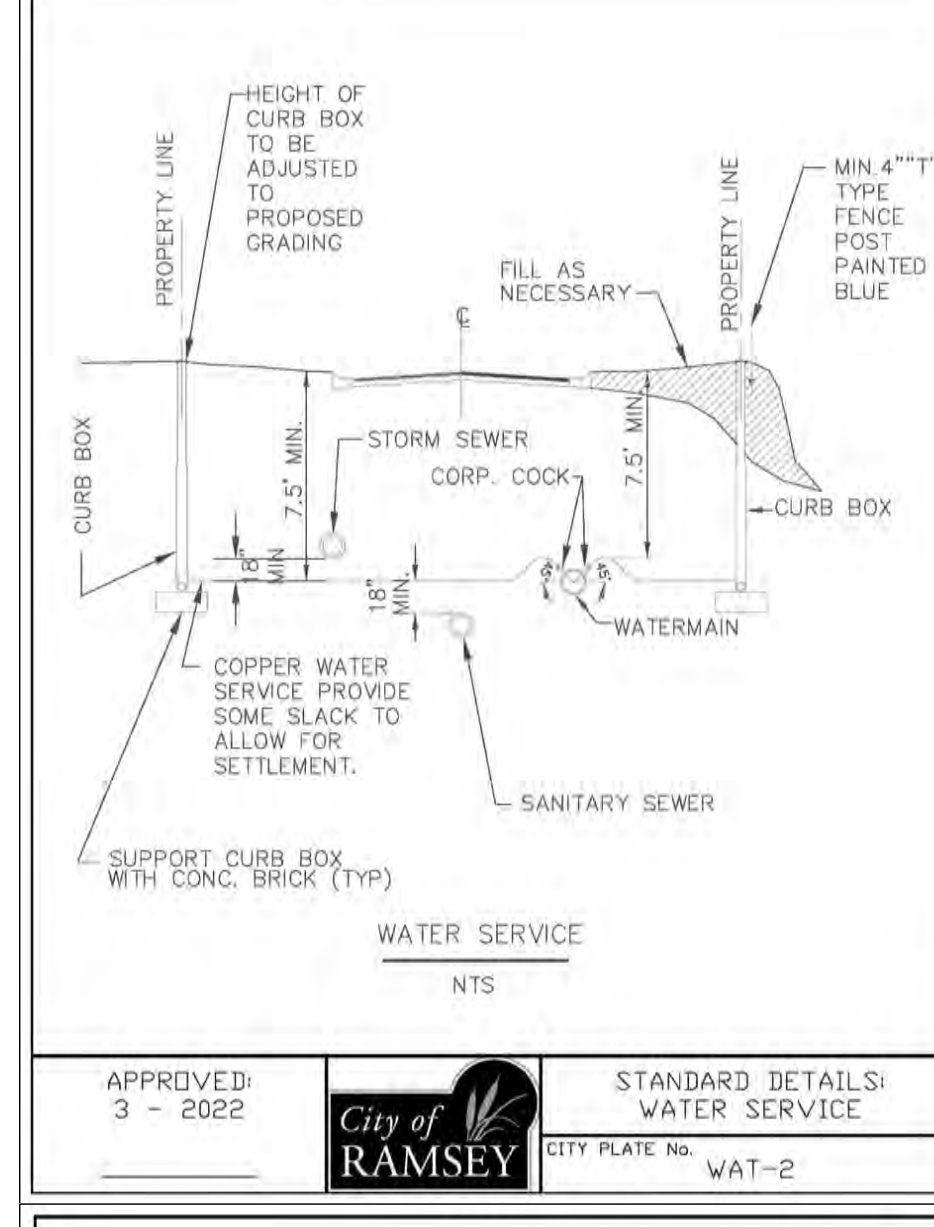
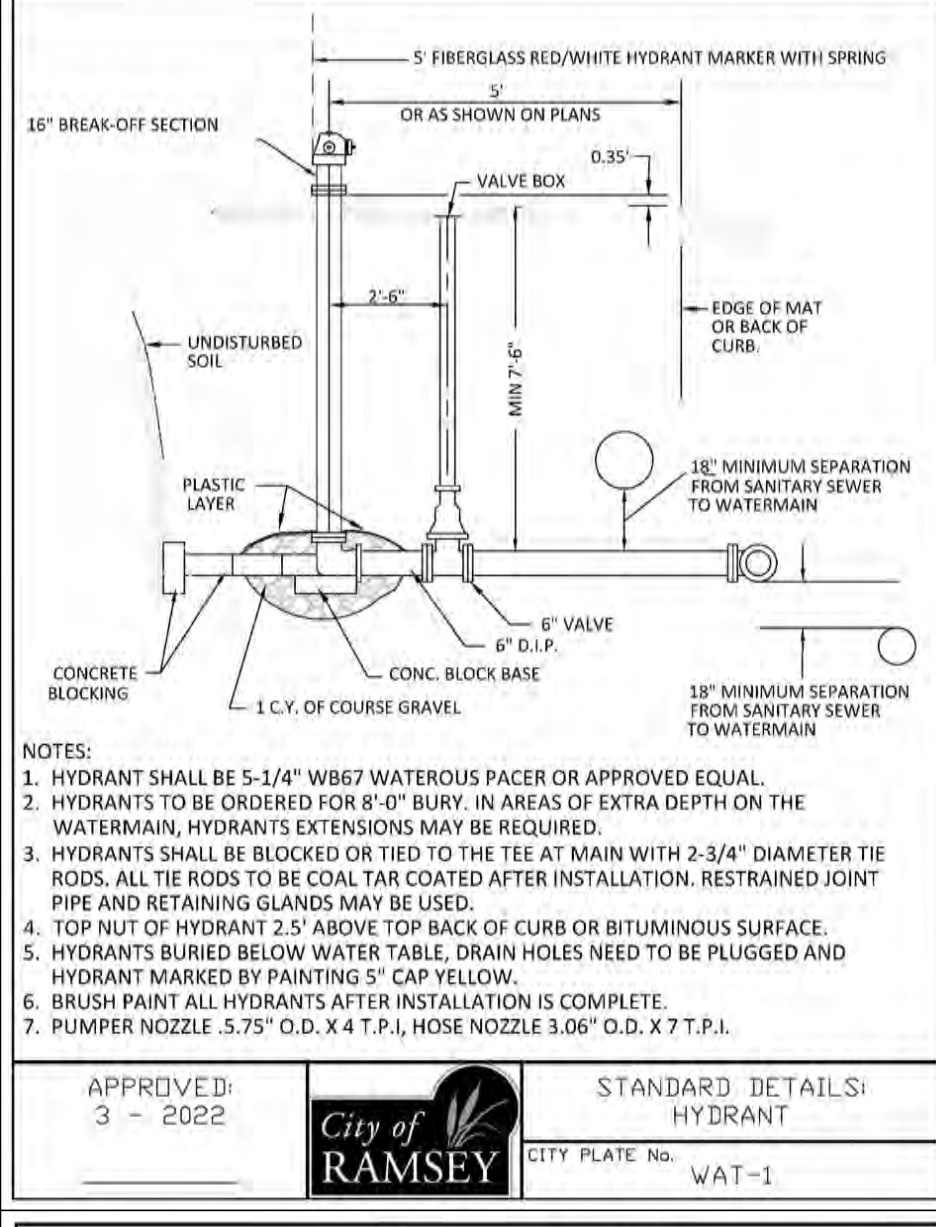
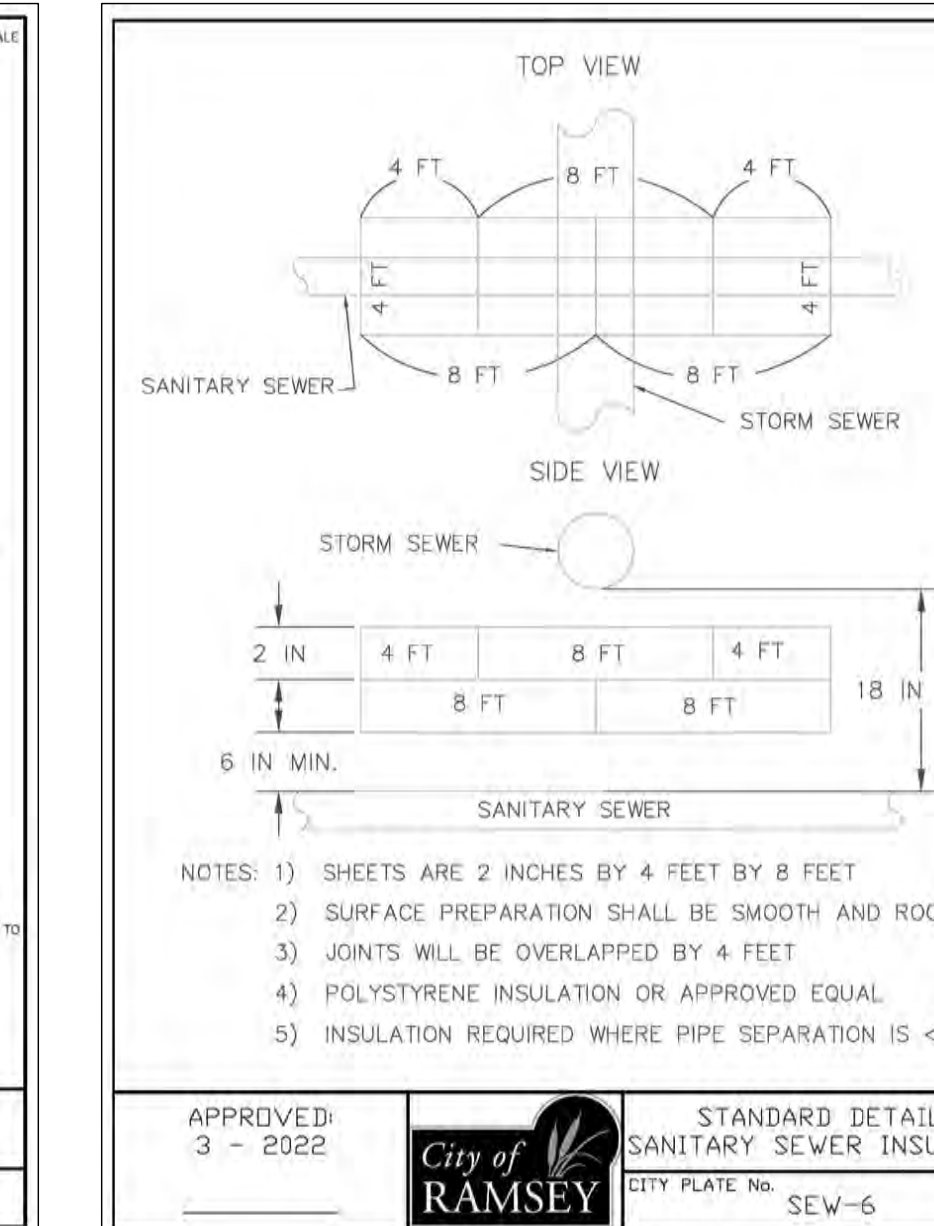
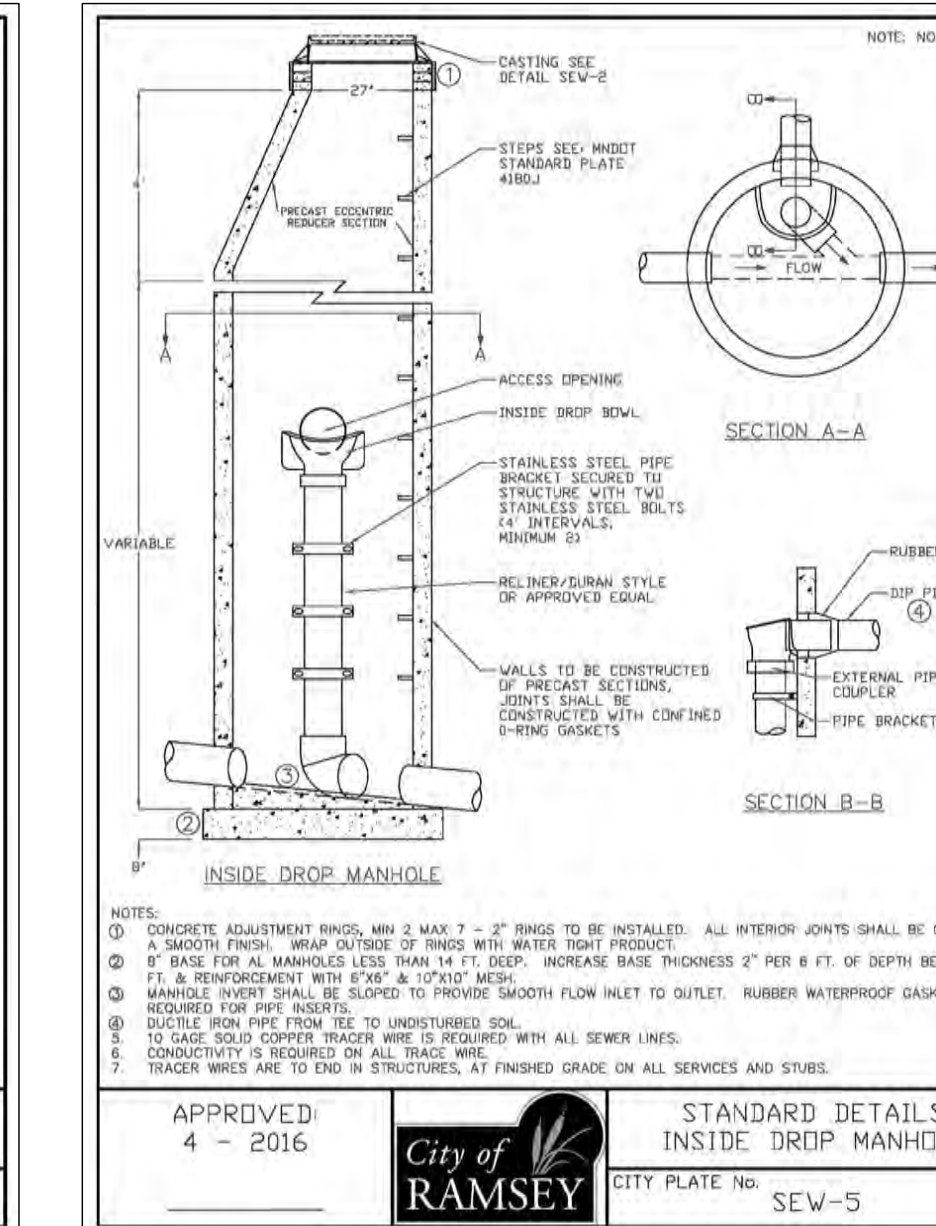
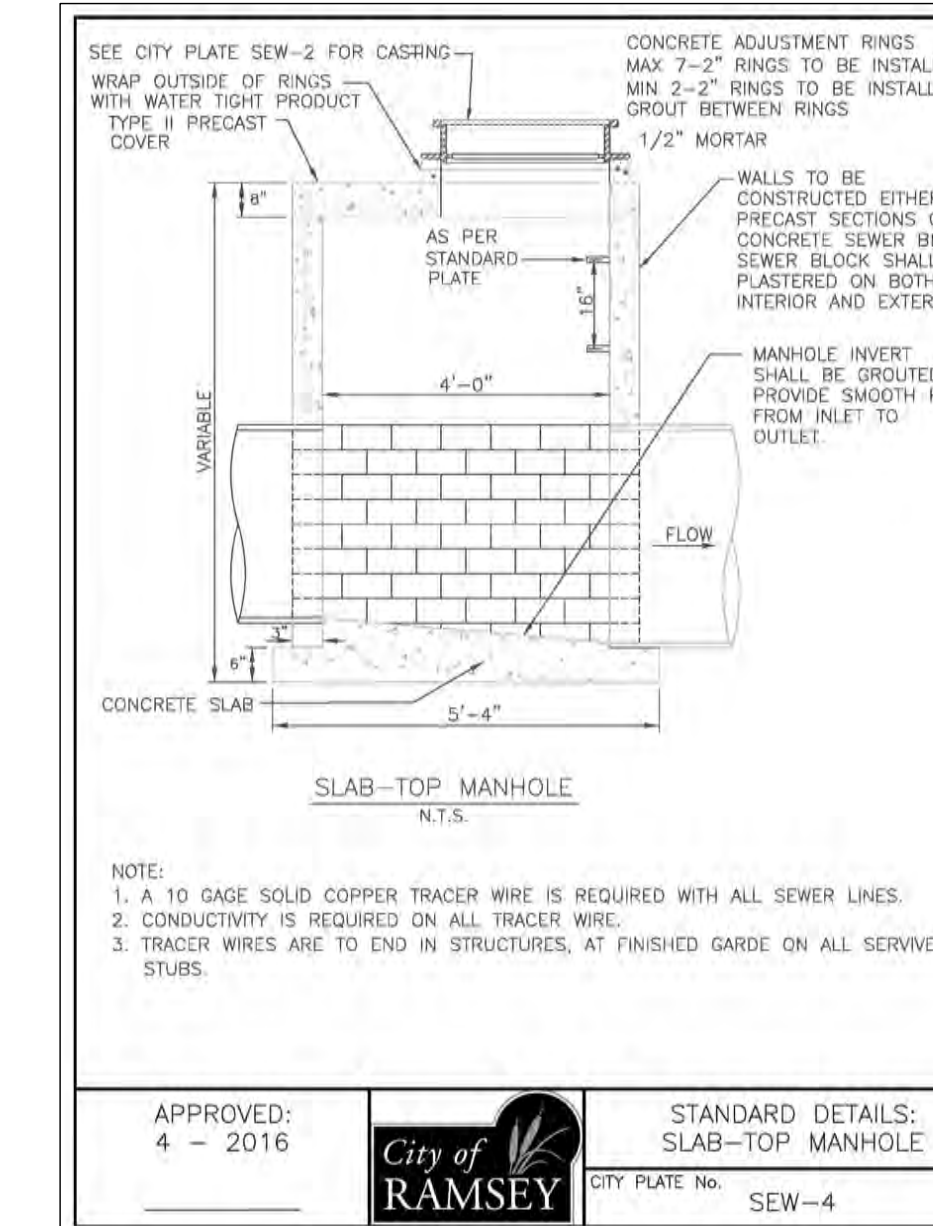
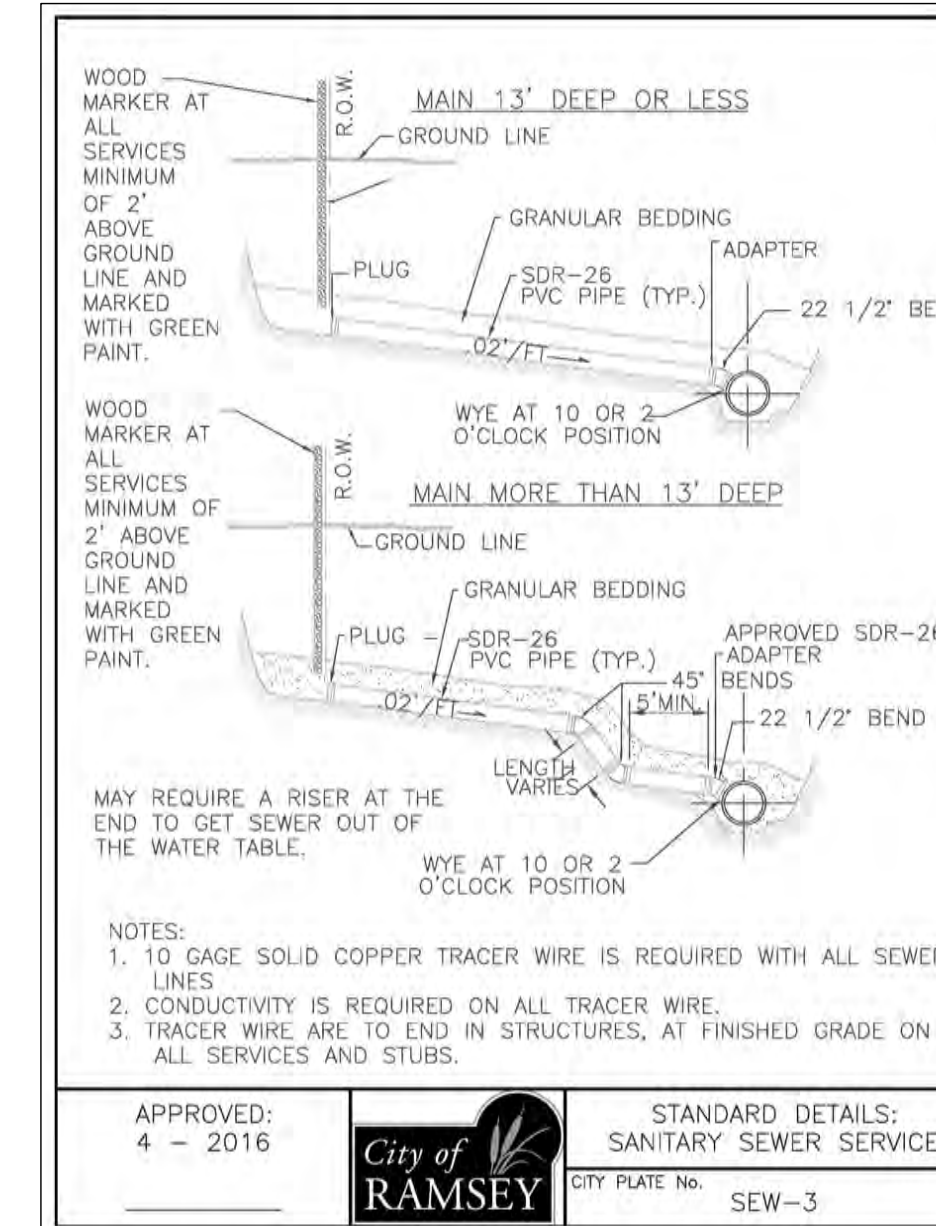
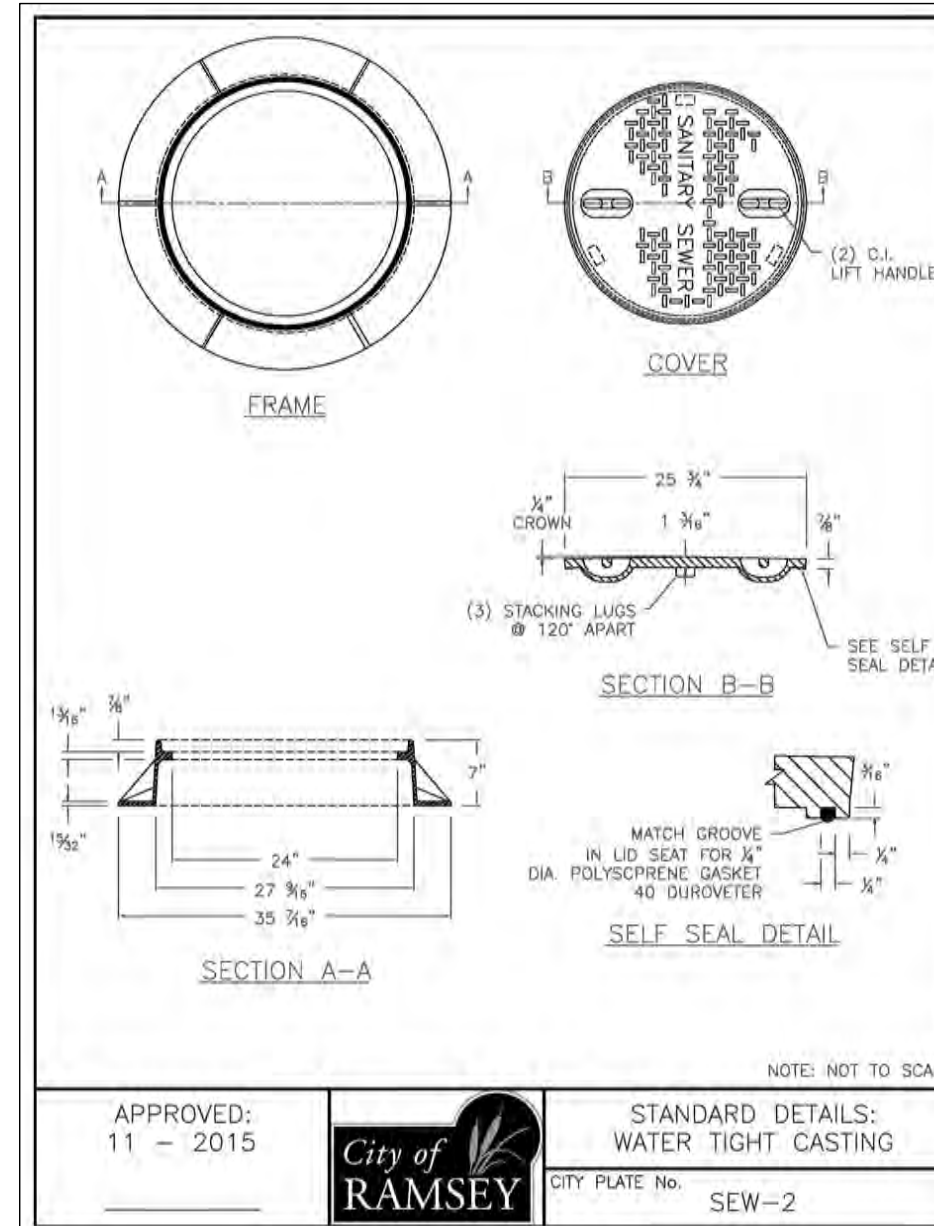
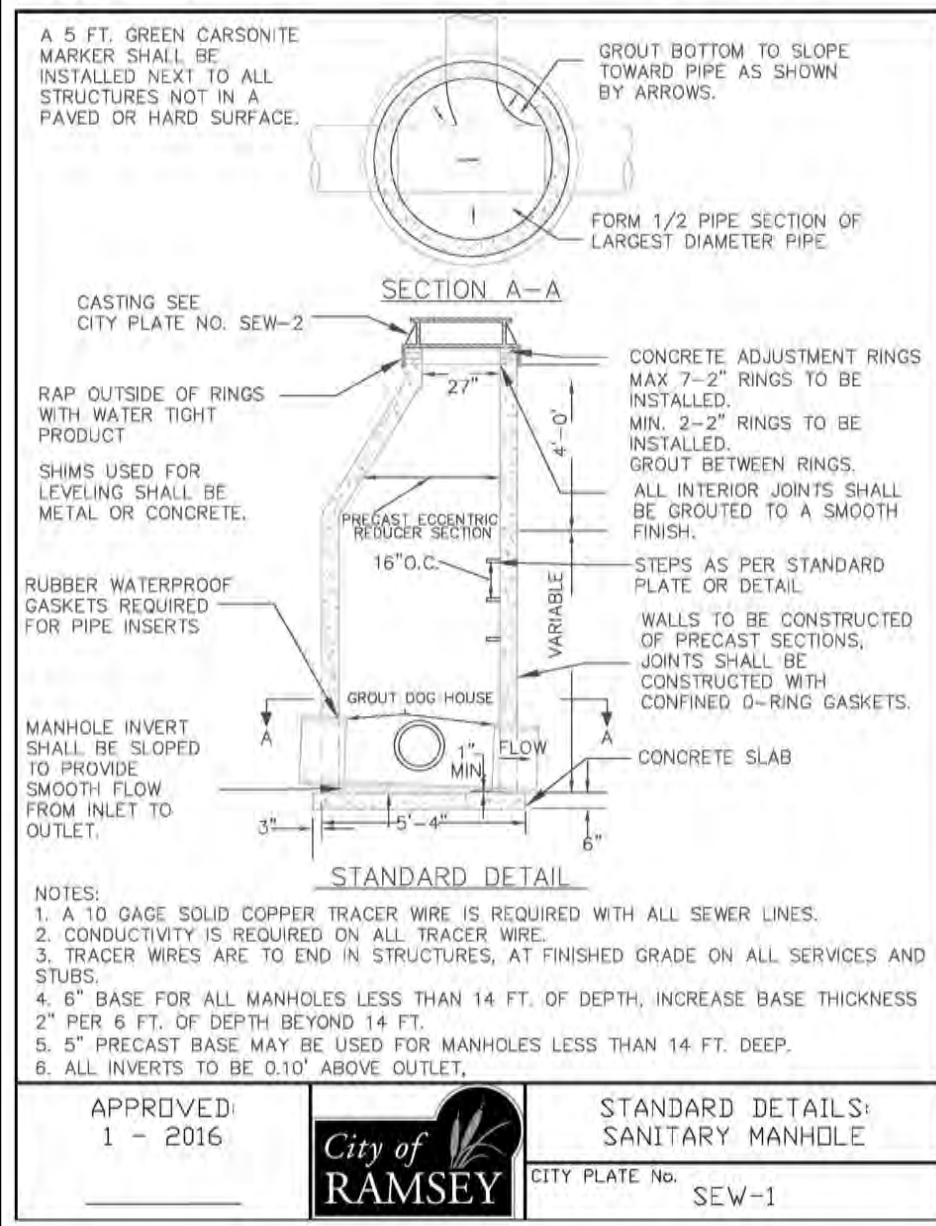
Revisions:  
1. 3/1/23 per City Comments

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4800 Olson Memorial Highway, Suite 100  
Golden Valley, Minnesota 55422

**TROTT BROOK CROSSING  
1ST ADDITION**  
Ramsey, Minnesota

**STREET CONSTRUCTION**

14 of 19



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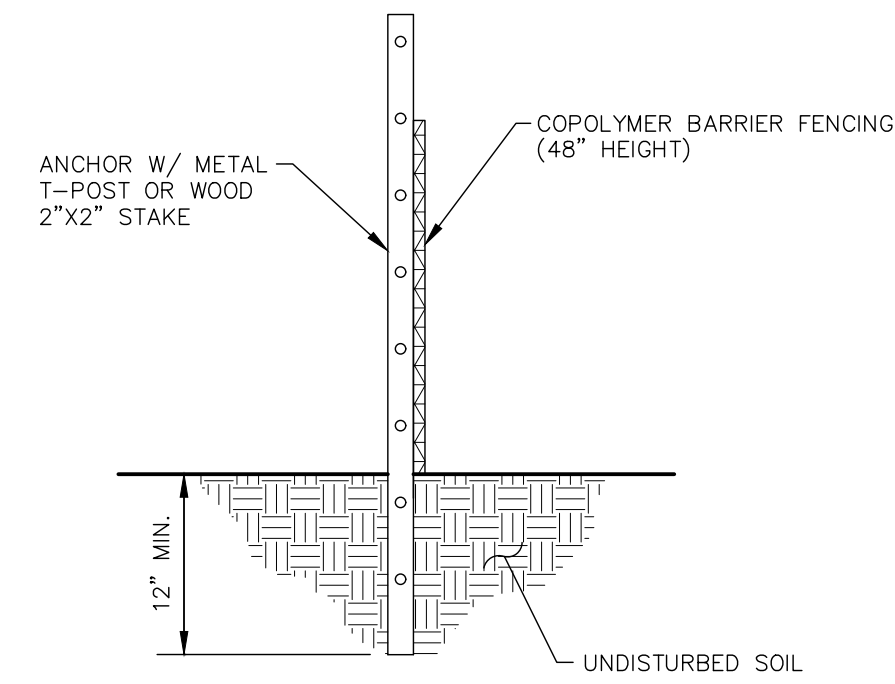
**TWIN CITIES LAND DEVELOPMENT**  
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 Golden Valley, Minnesota 55422

**TROTT BROOK CROSSING**  
 1ST ADDITION  
 Ramsey, Minnesota

**DETAILS**  
 15 of 19  
 #9461



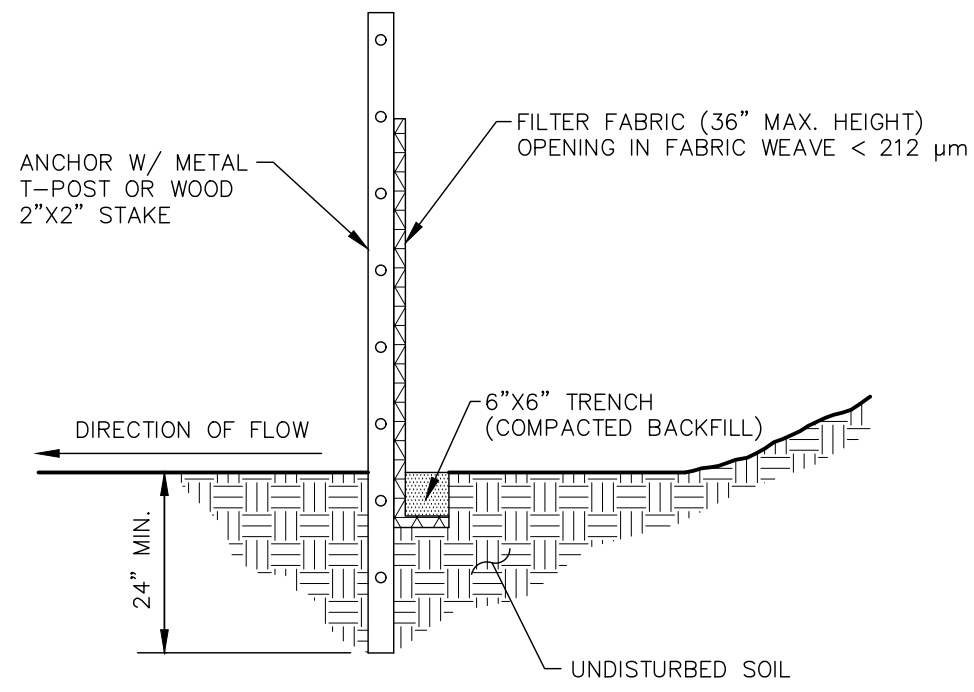
**TREE FENCE**



**NOTES:**

- TREE FENCING SHALL BE PLACED A MINIMUM OF 1 FOOT PER CALIPER INCH OF TREE DIAMETER FROM TREE(S) THAT IS/ARE TO BE SAVED.
- ANCHOR POST MAY BE SPACED UP TO 10 FEET APART.
- SECURELY ATTACH TREE FENCE TO ANCHOR POSTS W/ MINIMUM OF TWO ATTACHMENTS PER POST.
- SEE MNDOT SPECIFICATION 2572.

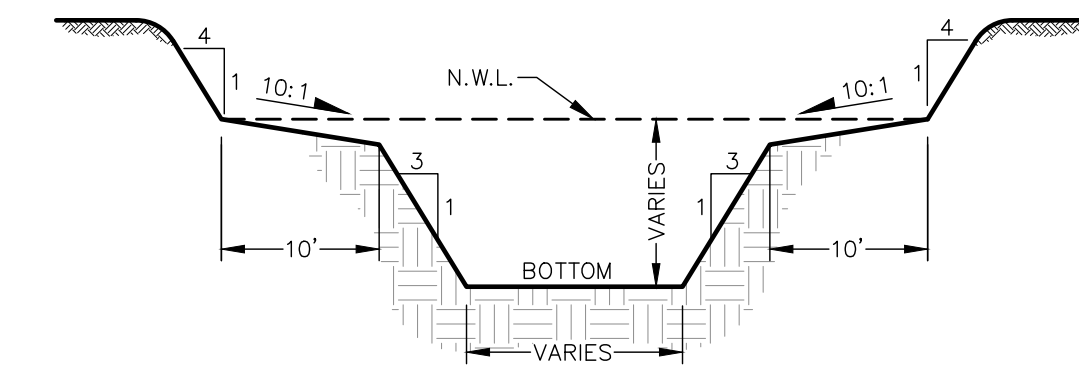
**SILT FENCE**



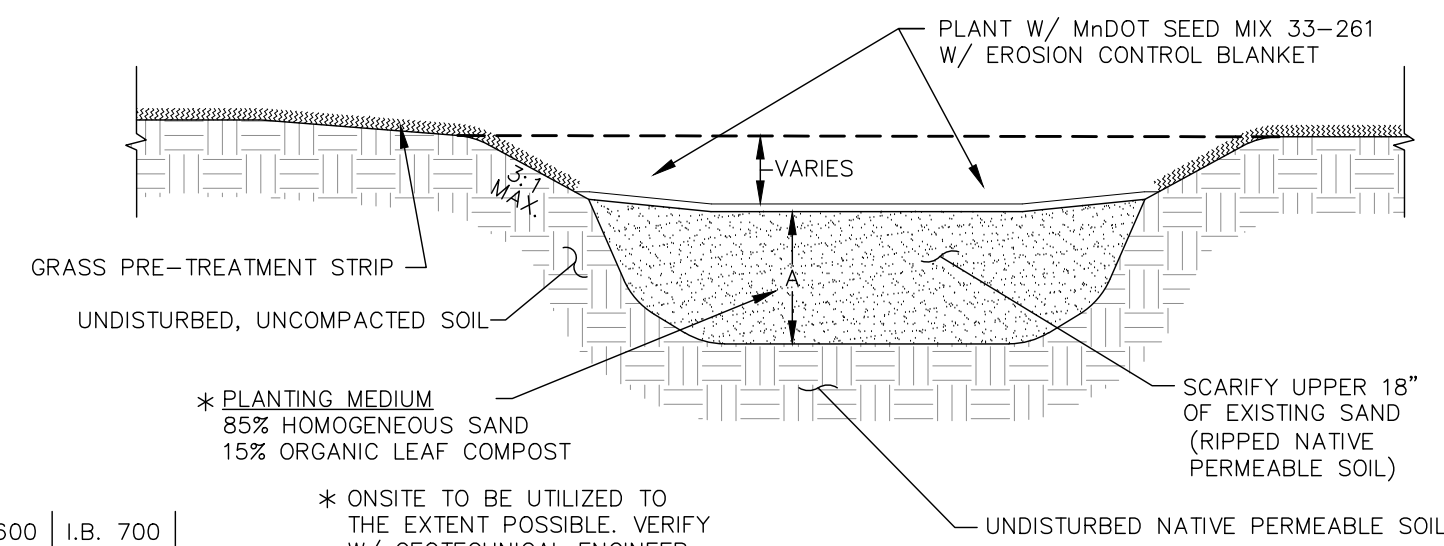
**NOTES:**

- DIG A 6"x6" TRENCH ALONG THE INTENDED SILT FENCE LINE.
- DRIVE ALL ANCHOR POSTS INTO THE GROUND AT THE DOWNHILL SIDE OF THE TRENCH.
- POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART.
- LAY OUT SILT FENCE ALONG THE UPHILL SIDE OF THE ANCHOR POSTS AND BACK FILL 6"x6" TRENCH.
- SECURELY ATTACH SILT FENCE TO ANCHOR POSTS W/ MINIMUM OF THREE ATTACHMENTS PER POST.
- SEE MNDOT SPECIFICATIONS 2573 & 3886.

**TYPICAL POND SECTION**



**INFILTRATION BASIN**



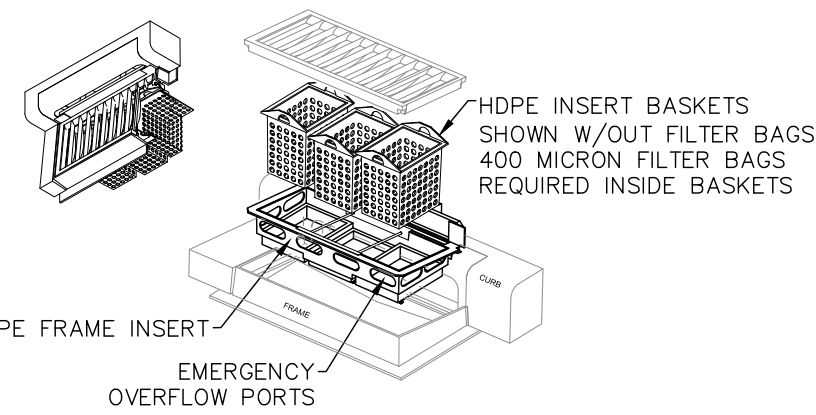
\* PLANTING MEDIUM  
85% HOMOGENEOUS SAND  
15% ORGANIC LEAF COMPOST

\* ONSITE TO BE UTILIZED TO THE EXTENT POSSIBLE. VERIFY W/ GEOTECHNICAL ENGINEER.

| A. DEPTH | I.B. 110 | I.B. 400 | I.B. 600 | I.B. 700 |
|----------|----------|----------|----------|----------|
|          | 1.5 FT.  | 1.5 FT.  | 1.5 FT.  | 1.0 FT.  |

**INFRA SAFE - 2'x3' DEBRIS COLLECTION DEVICE**

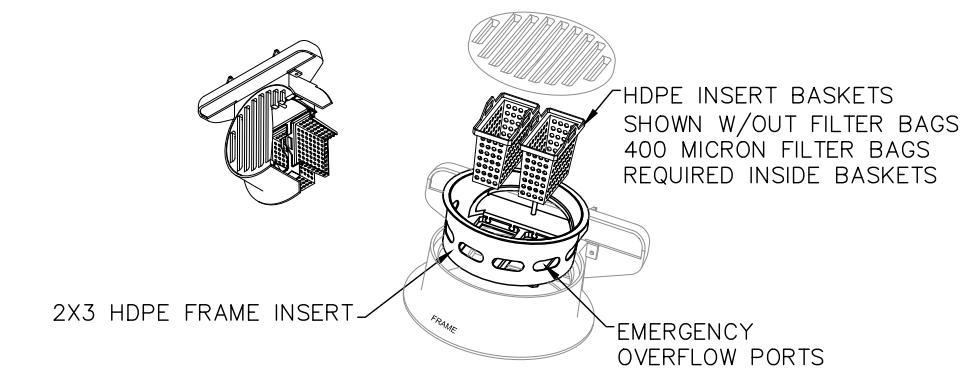
AS MANUFACTURED BY ROYAL ENVIRONMENTAL SYSTEMS



- MEETS MN/DOT SPECIFICATION 3891.F
- "STORM DRAIN INLET PROTECTION - FILTER BAG INSERT"
- DESIGNED FOR NEENAH R-3067 OR R-3290 SERIES

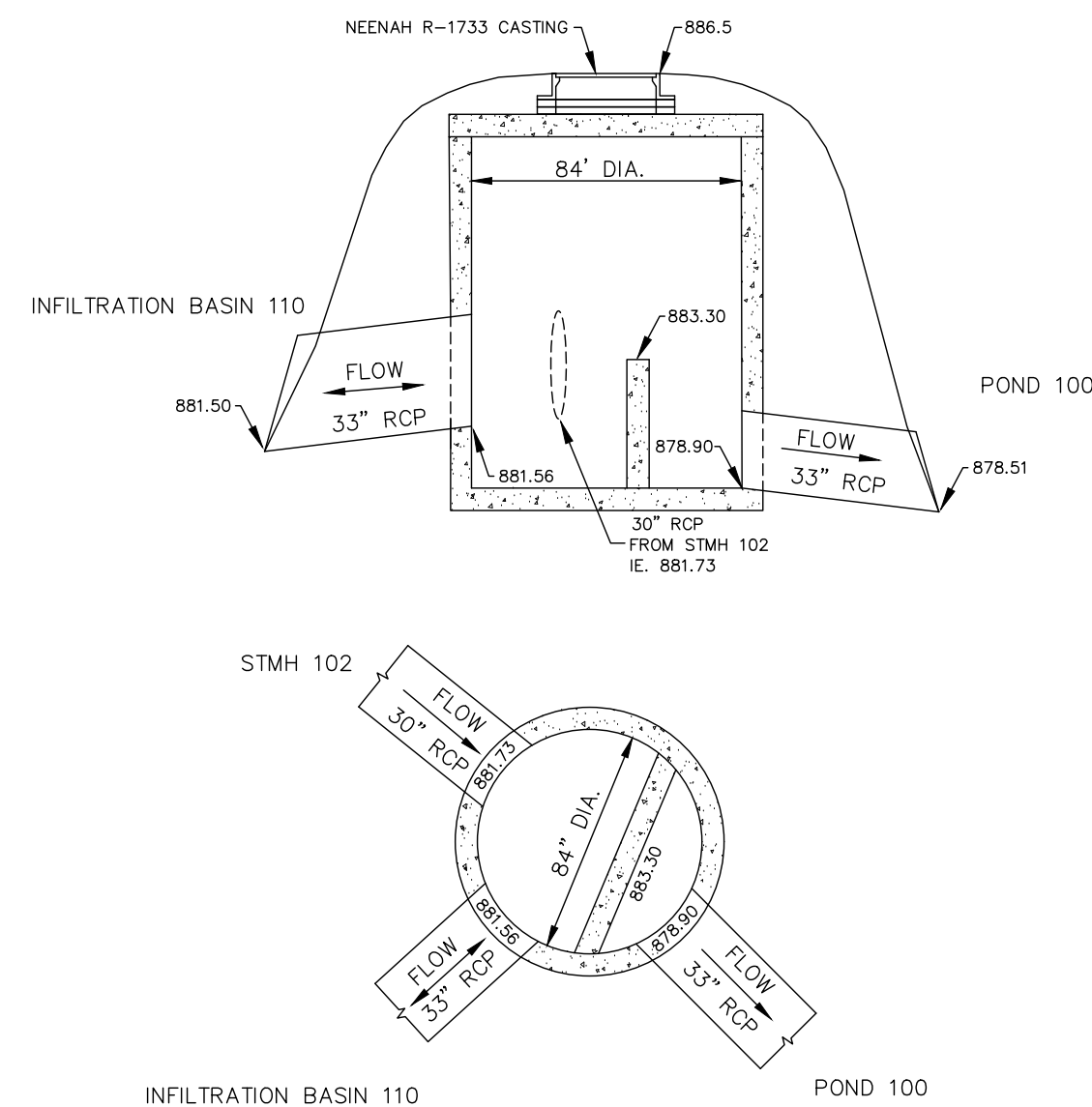
**INFRA SAFE - 27" DEBRIS COLLECTION DEVICE**

AS MANUFACTURED BY ROYAL ENVIRONMENTAL SERVICES

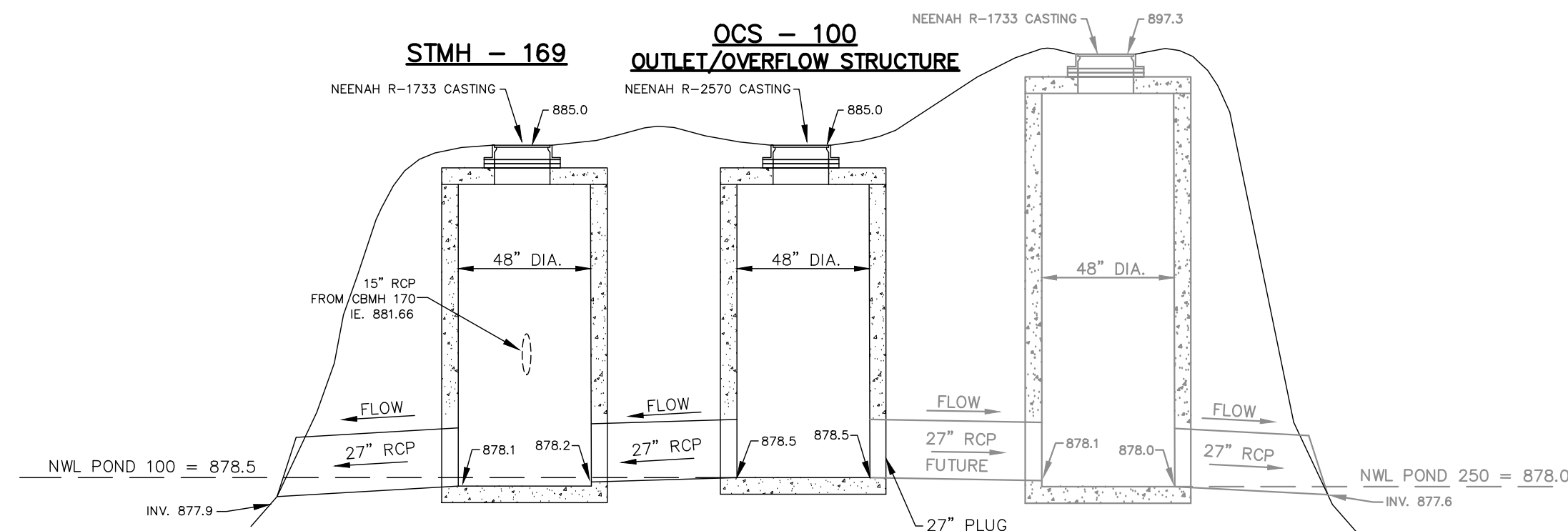


- MEETS MN/DOT SPECIFICATION 3891.F
- "STORM DRAIN INLET PROTECTION - FILTER BAG INSERT"
- DESIGNED FOR NEENAH R-3250-A OR R-3250-1 (MNDOT 801) FRAME CASTING

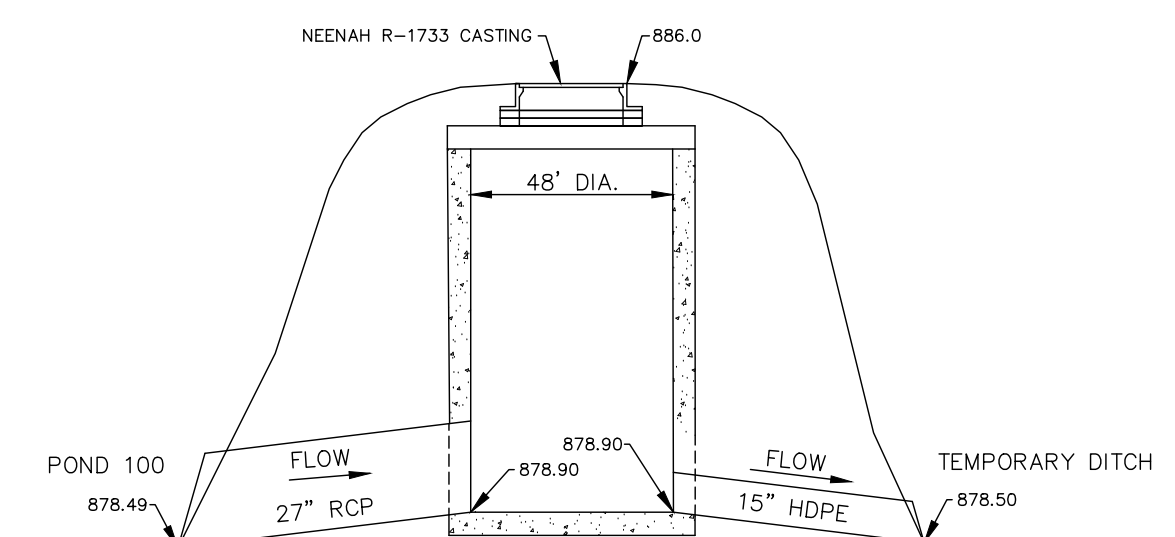
**STMH - 101 SPLITTER STRUCTURE**

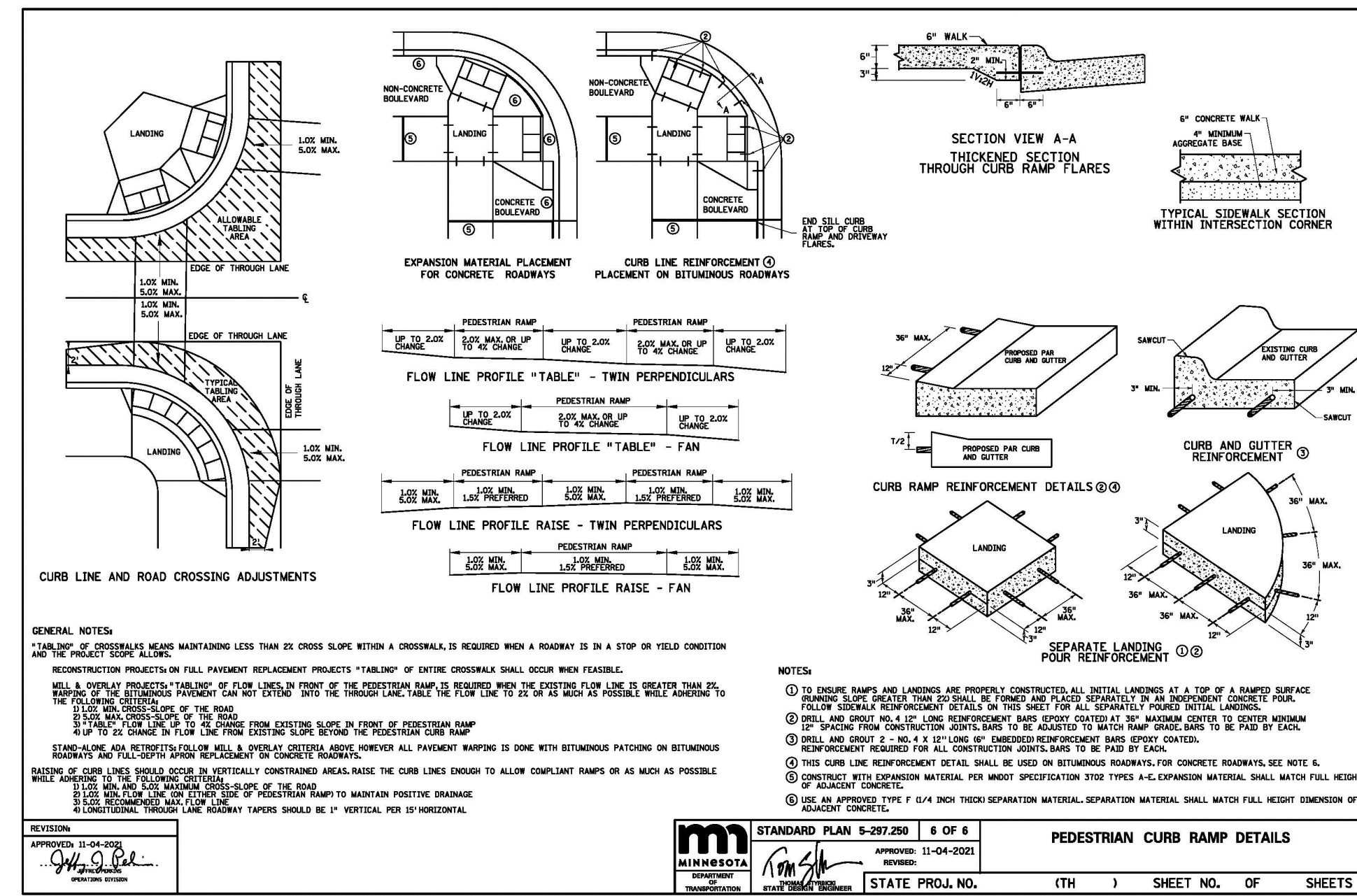
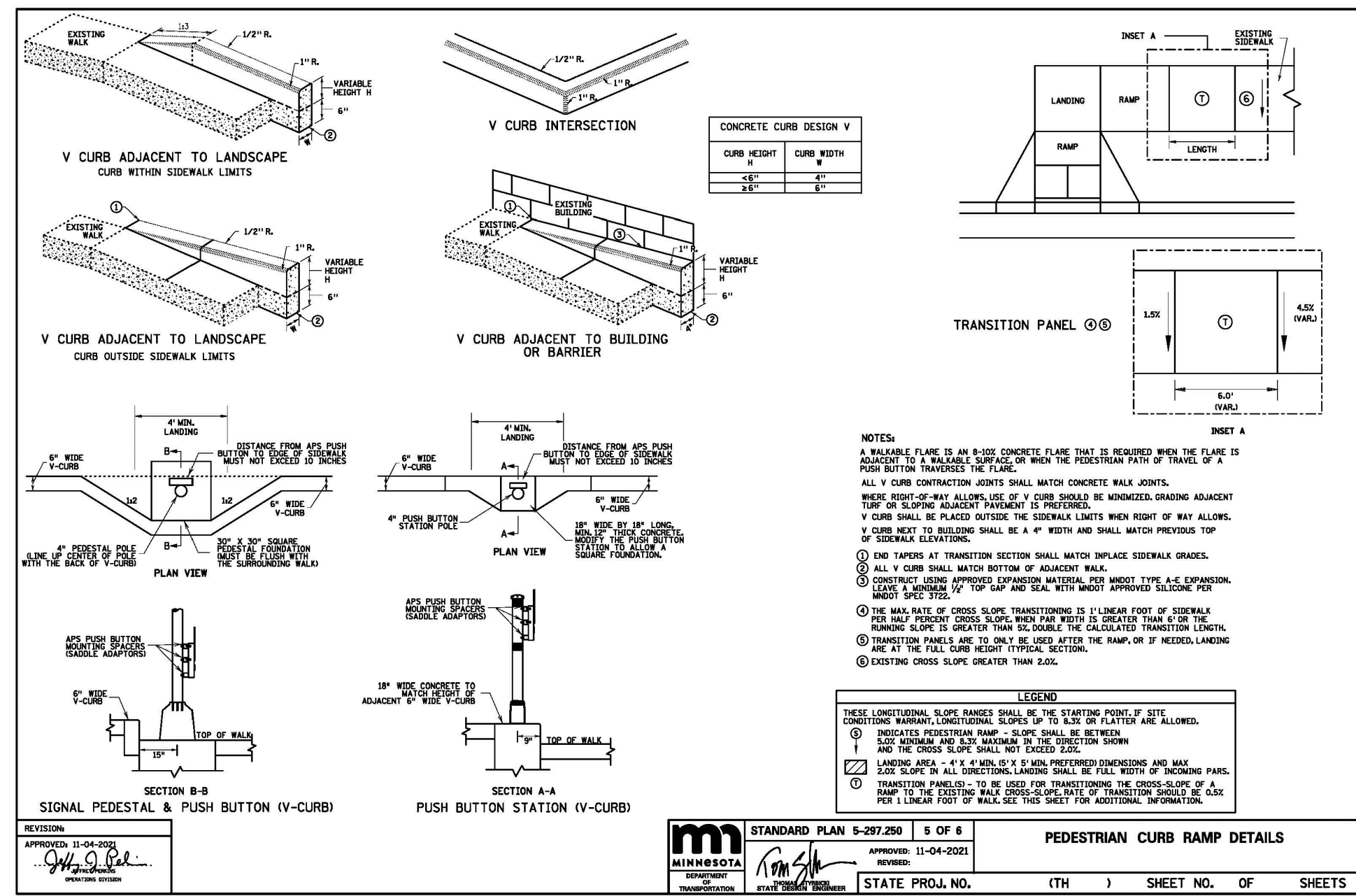
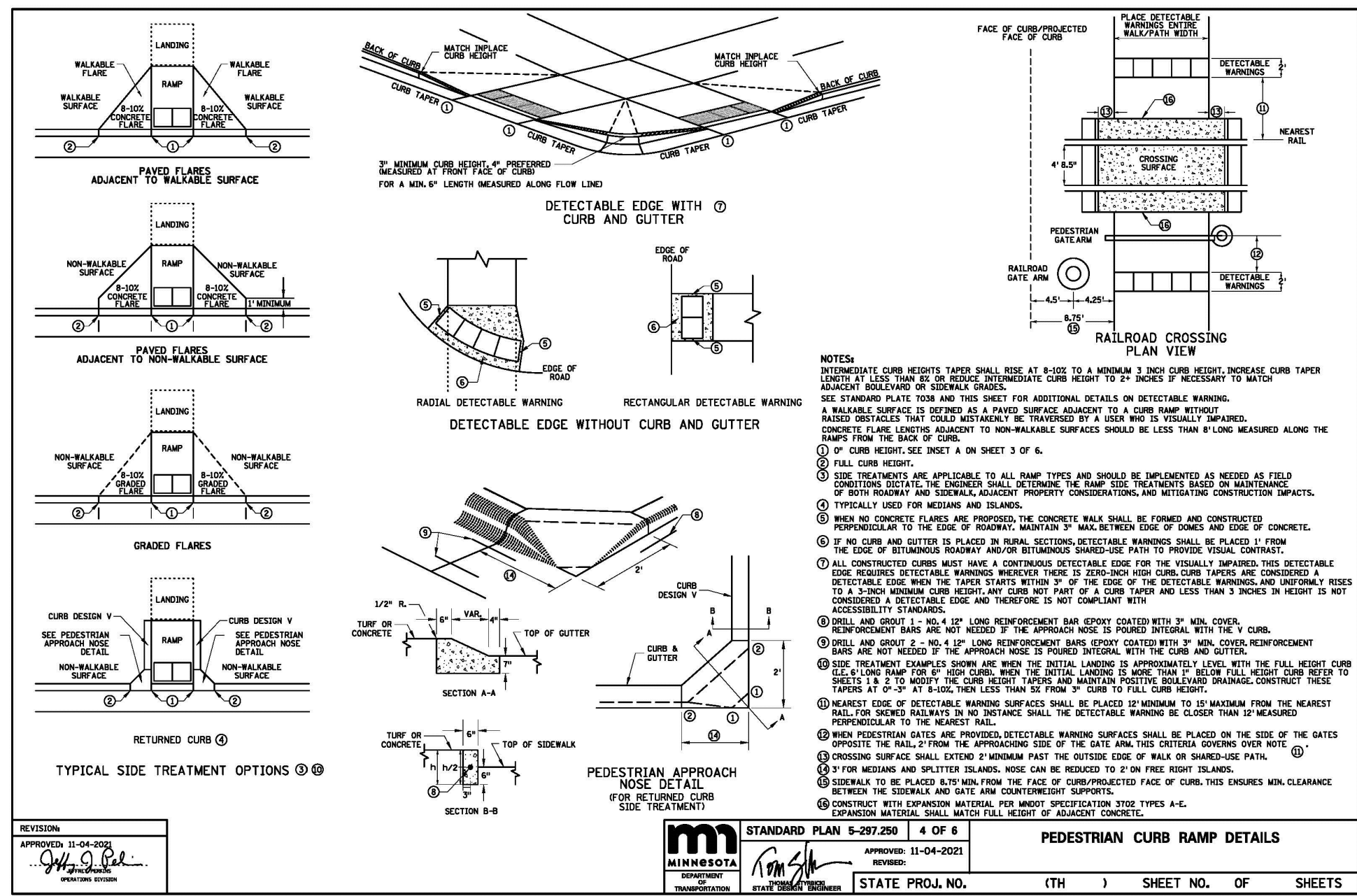
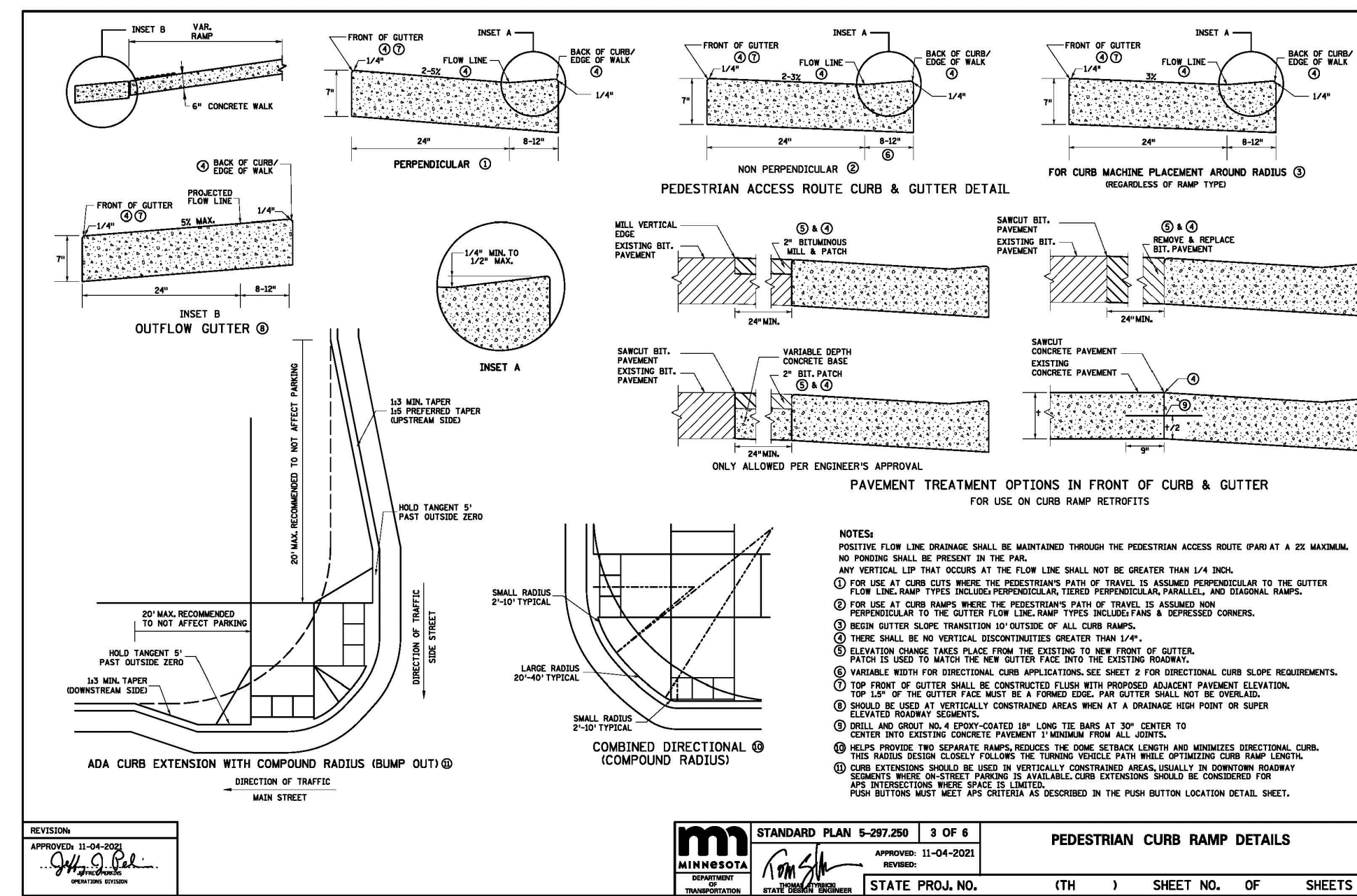
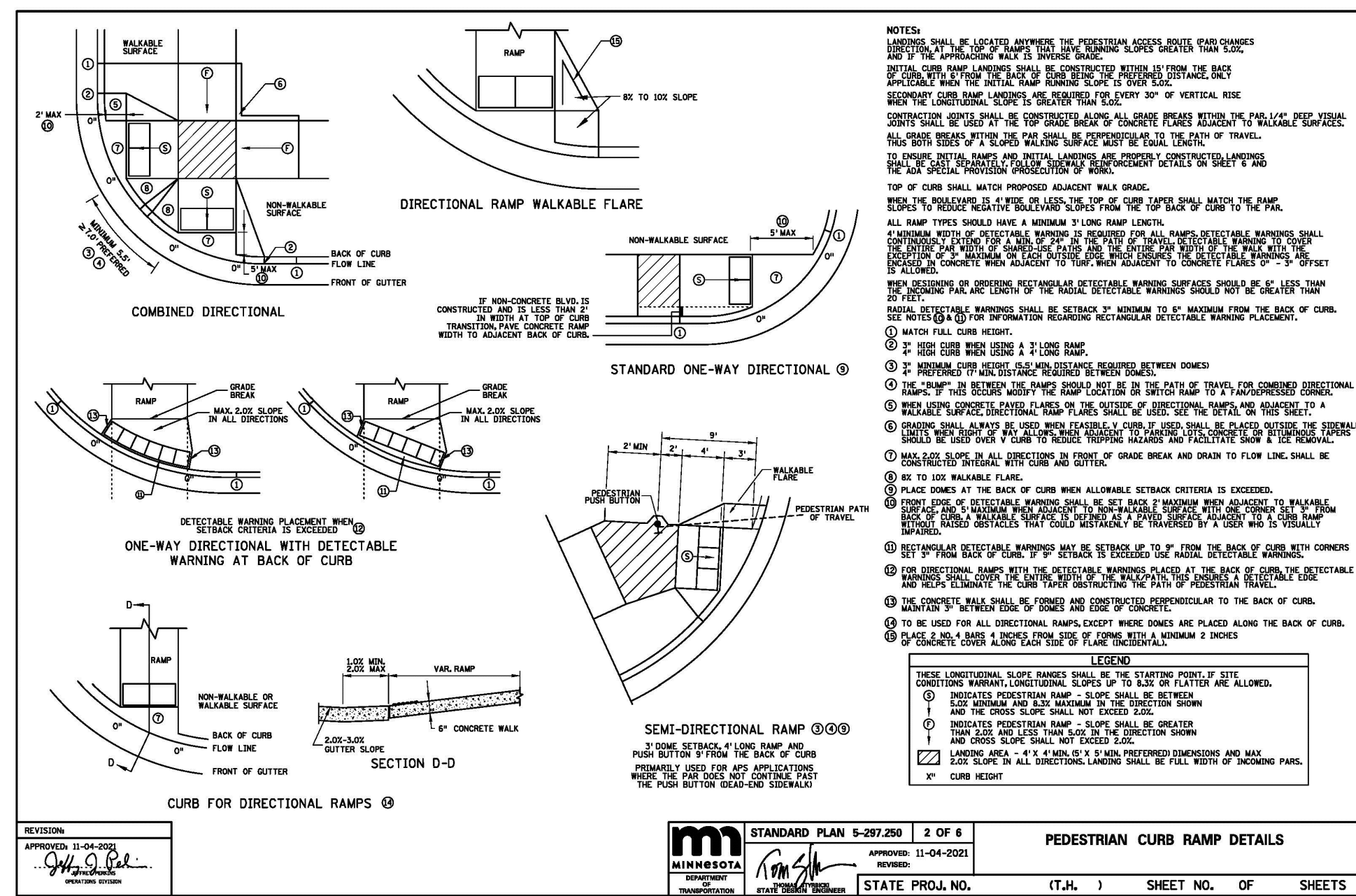
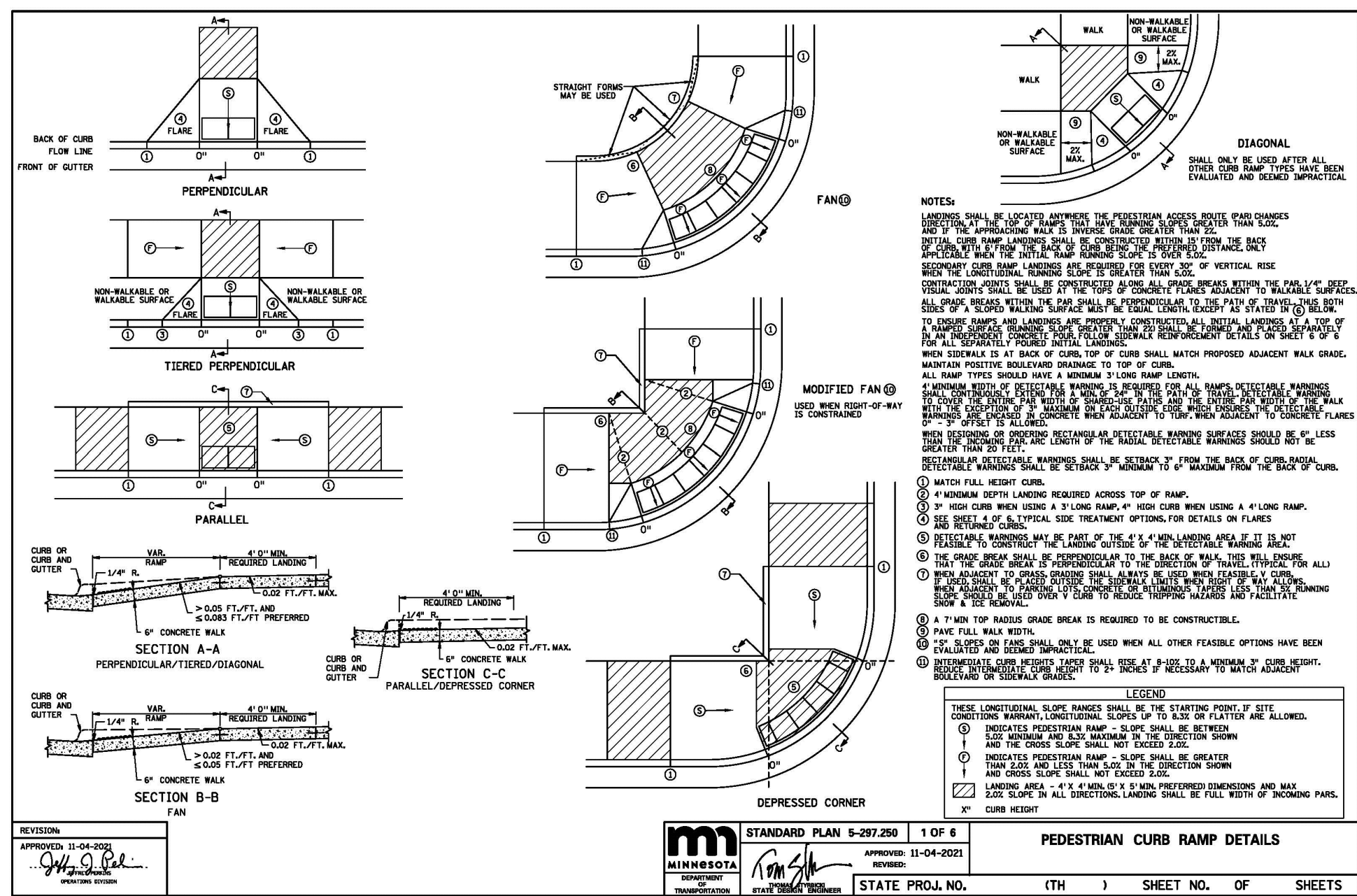


**FUTURE STMH - 100A**

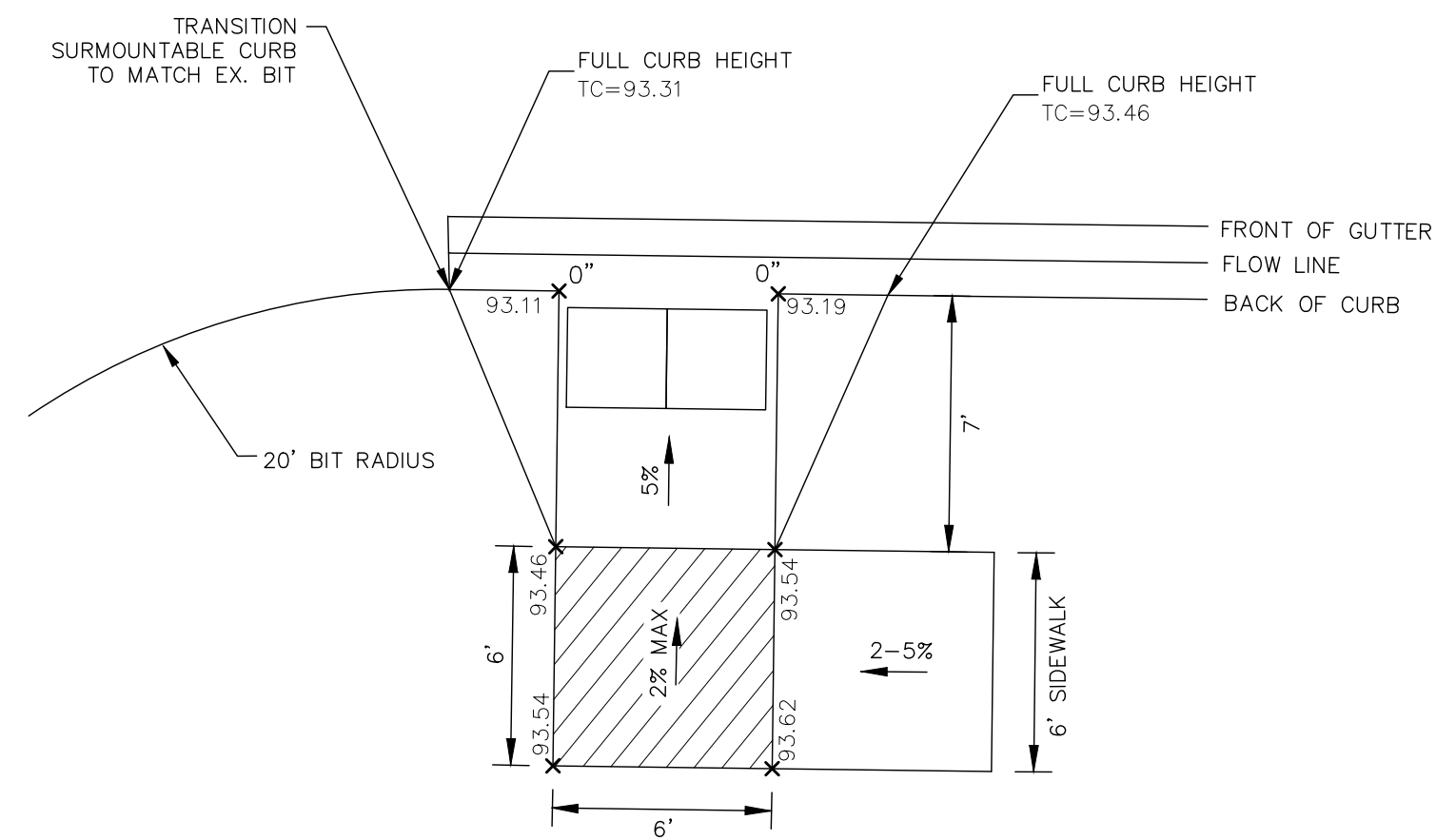


**STMH - 139T TEMPORARY OUTLET STRUCTURE**

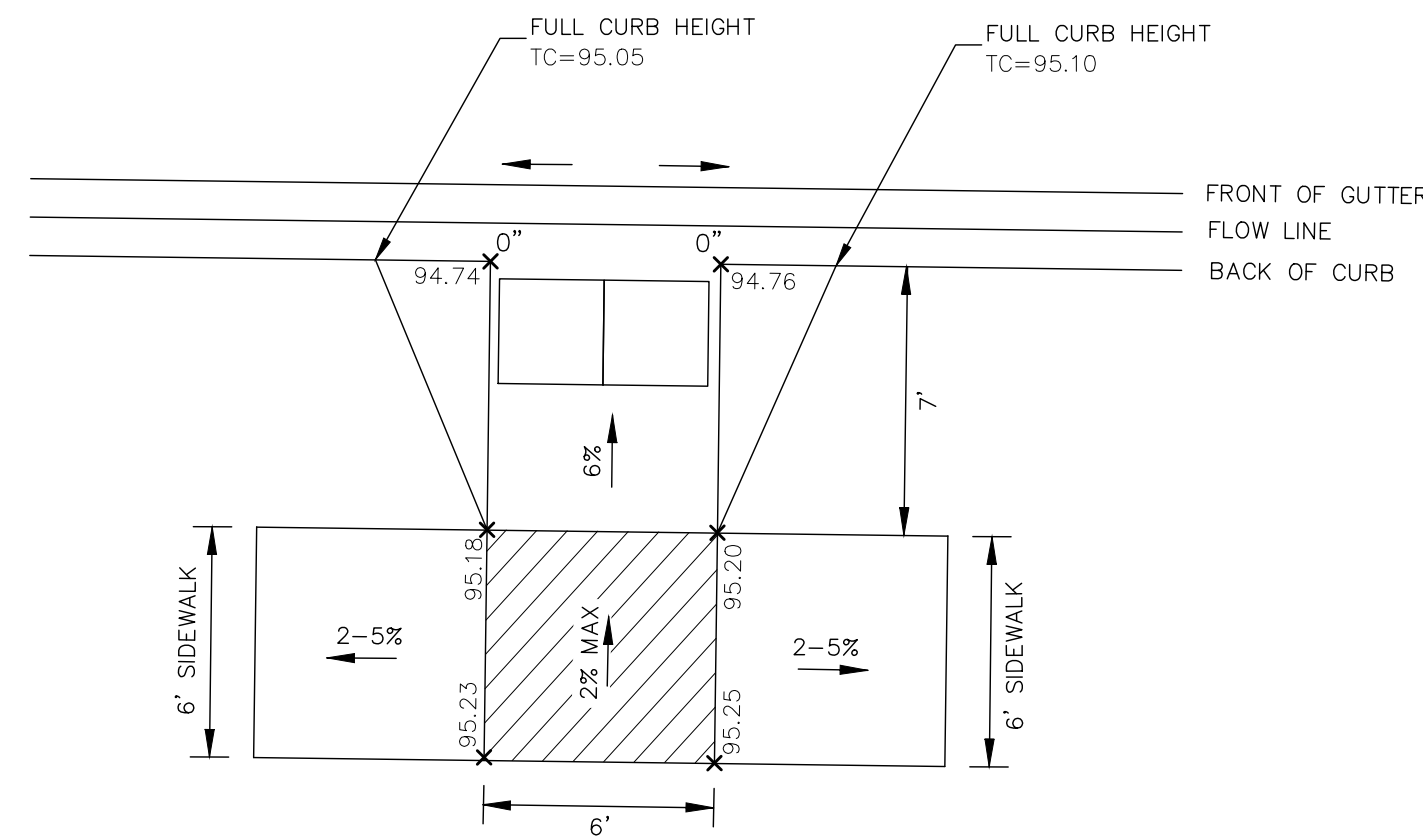




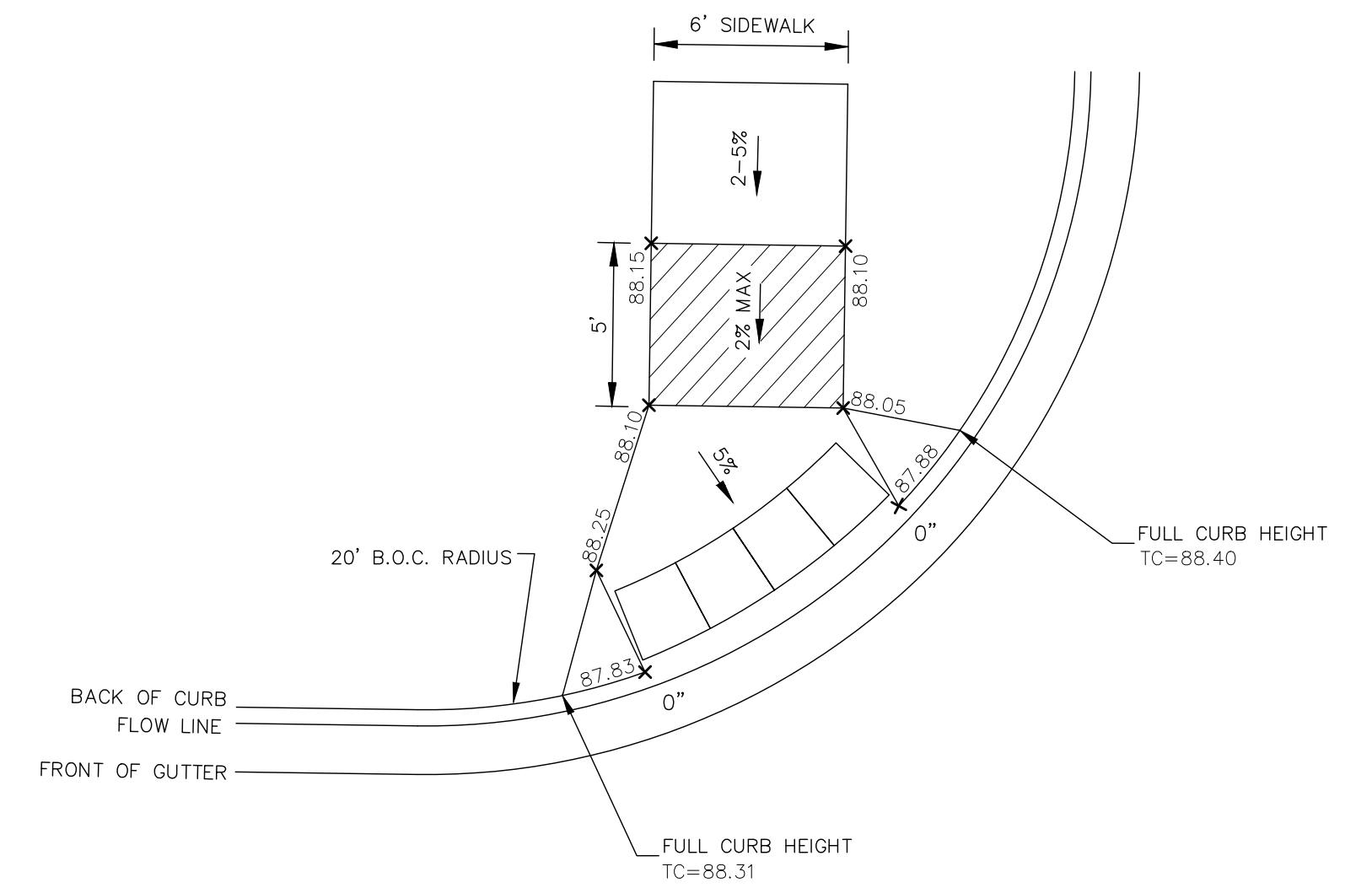
**PEDESTRIAN RAMP #1**  
170TH AVENUE NW  
2 TRUNCATED DOMES  
1" = 5'



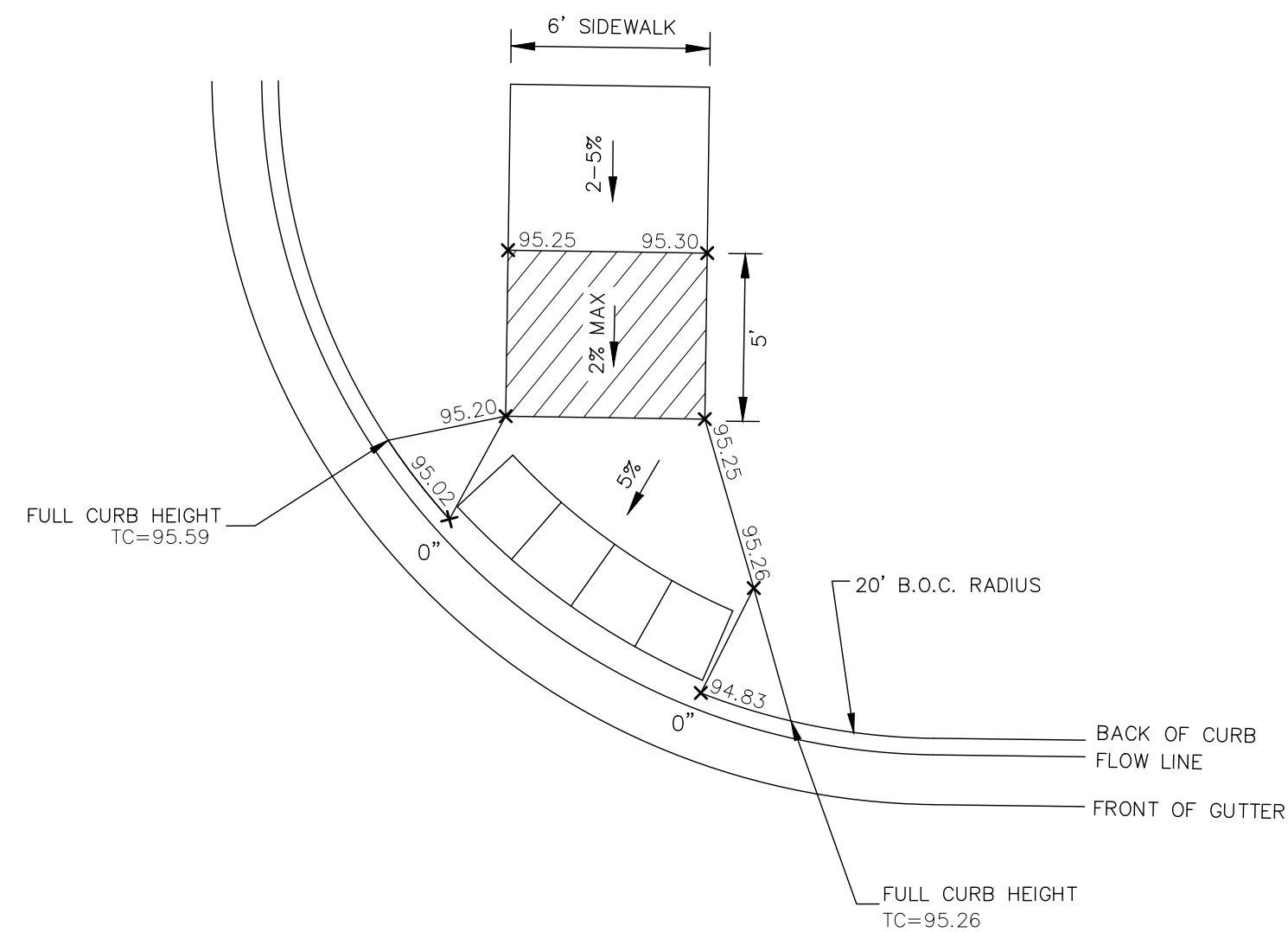
**PEDESTRIAN RAMP #2**  
170TH LANE NW/ URANIMITE STREET NW  
2 TRUNCATED DOMES  
1" = 5'



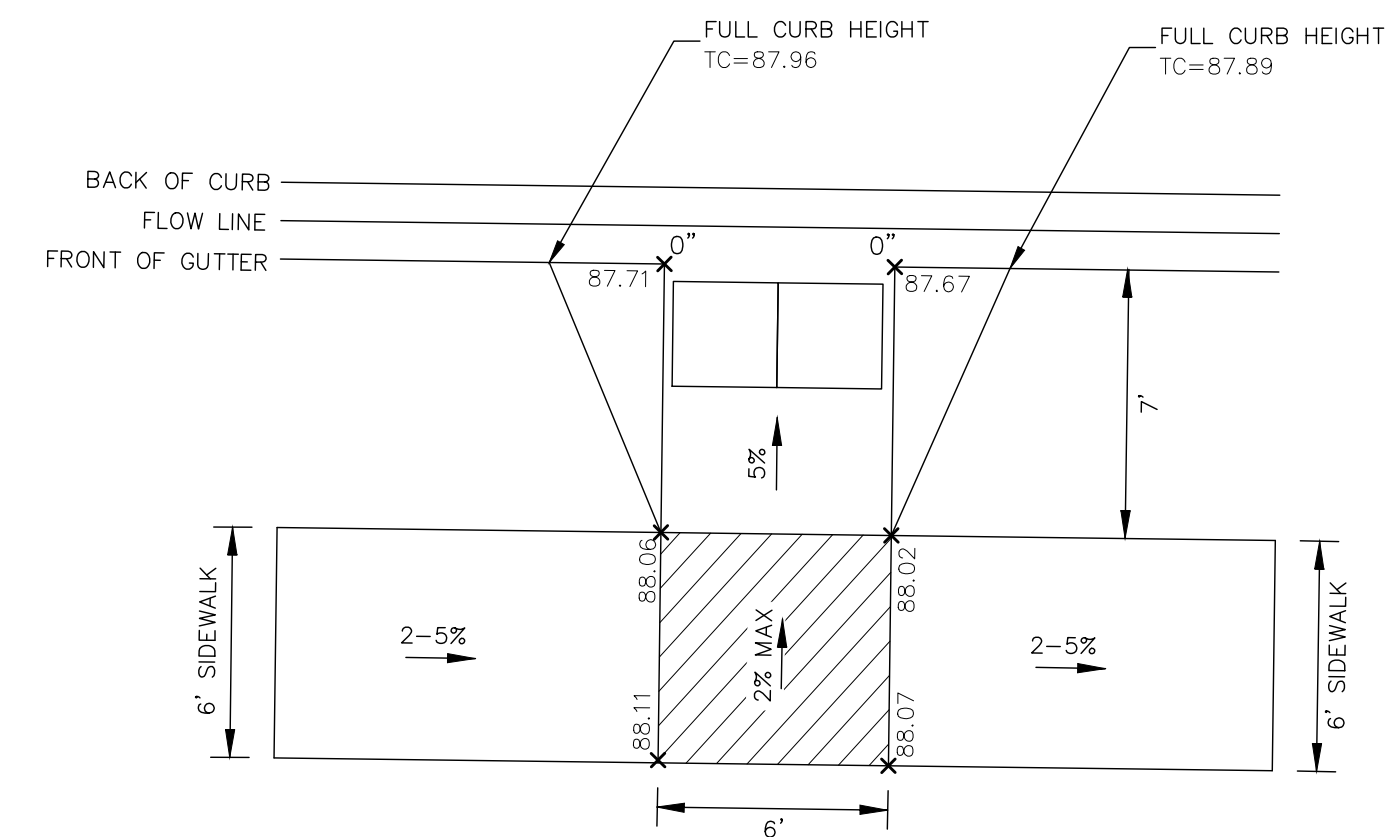
**PEDESTRIAN RAMP #3**  
170TH LANE NW/ TRAPROCK STREET NW  
4 TRUNCATED DOMES  
1" = 5'



**PEDESTRIAN RAMP #4**  
170TH AVENUE NW/ URANIMITE STREET NW  
4 TRUNCATED DOMES  
1" = 5'



**PEDESTRIAN RAMP #5**  
170TH LANE NW  
2 TRUNCATED DOMES  
1" = 5'



NOTE: CONTRACTOR SHALL FIELD VERIFY/ADJUST ALL ELEVATIONS TO MATCH ACTUAL CURB GRADES.

**CARLSON MCCAIN**  
ENGINEERING SURVEYING ENVIRONMENTAL  
3890 PHEASANT RIDGE DR NE  
SUITE 100  
BLAINE, MN 55449  
TEL 763.489.7900  
FAX 763.489.7959  
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: 1/18/23 License #: 25063  
Drawn: GJS  
Designed: BJK  
Date: 1/18/23

Revisions:  
1. 3/1/23 per City Comments

**TWIN CITIES LAND DEVELOPMENT**  
4800 Olson Memorial Highway, Suite 100  
Golden Valley, Minnesota 55422

**TROTT BROOK CROSSING**  
1ST ADDITION  
Ramsey, Minnesota

**DETAILS**

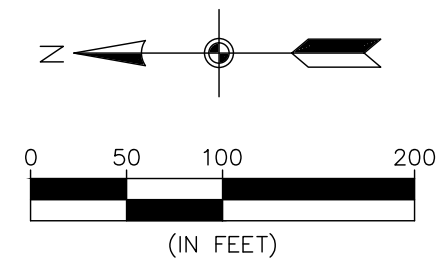
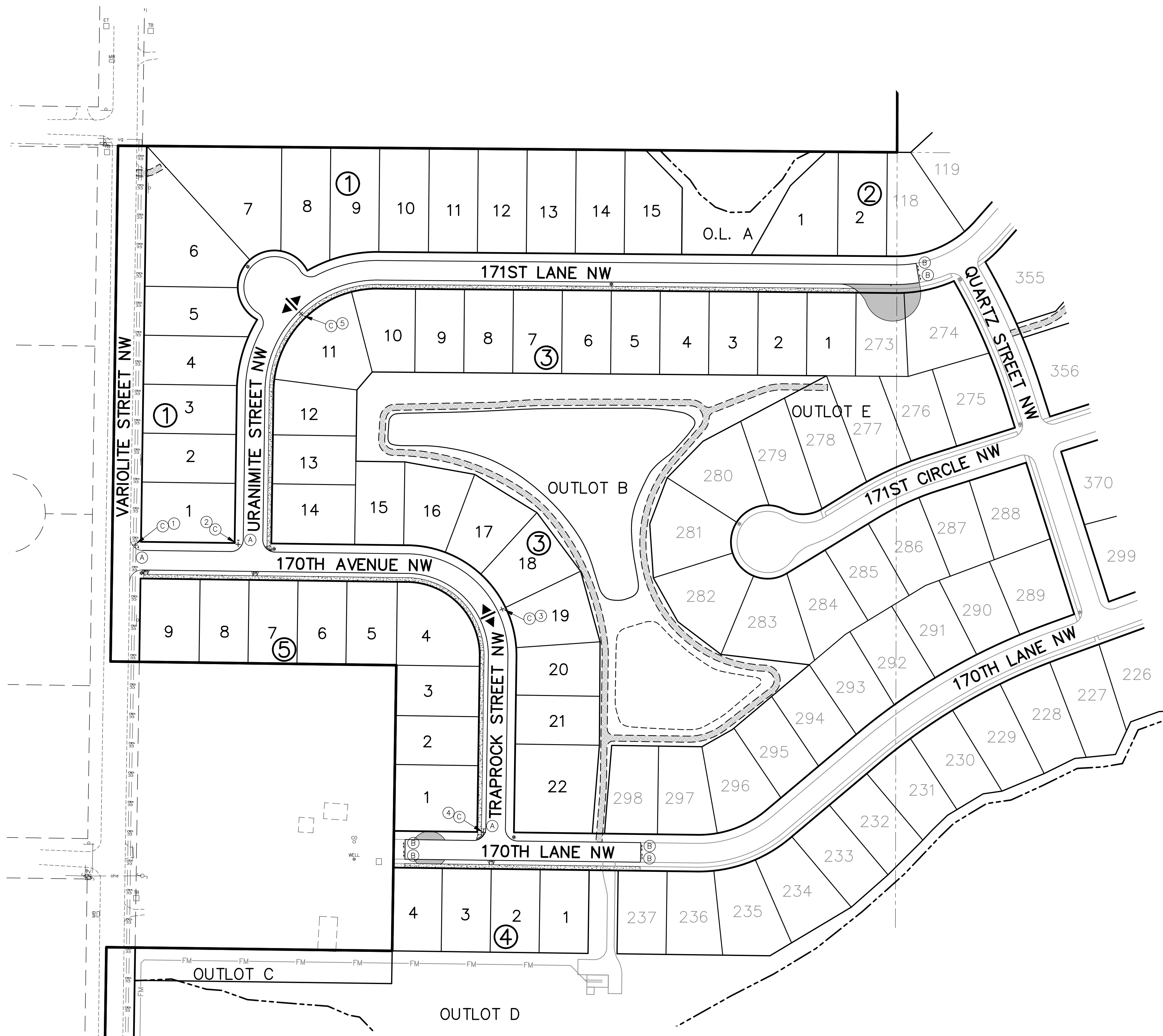
| SIGN SCHEDULE |      |                     |           |          |
|---------------|------|---------------------|-----------|----------|
| REFERENCE     | SIGN | SIGN NO.            | SIZE      | QUANTITY |
| (A)           |      | R1-1                | 30" x 30" | 3        |
| (B)           |      | TYPE III BARRICADES |           | 6        |
| (C)           |      | STREET SIGN         |           | 5        |

**LIGHTING NOTES:**

PROPOSED LIGHT LOCATION.

VERIFY FINAL LOCATION W/ CITY/  
CONNEXUS ENERGY

| STREET NAME SIGNS                 |          |
|-----------------------------------|----------|
| NAMES                             | QUANTITY |
| ① 170th Ave NW<br>Variolite St NW | 1        |
| ② 170th Ave NW<br>Uranimite St NW | 1        |
| ③ Traprock St NW<br>170th Ave NW  | 1        |
| ④ 170th Ln NW<br>Traprock St NW   | 1        |
| ⑤ Uranimite St NW<br>171st Ln NW  | 1        |



| BENCHMARKS  |  |
|---|--|
| 1. Anoka County Benchmark No. 3077 -<br>Elevation 901.84 ft. (NAVD88) |  |
| 2. Anoka County Benchmark No. 3078 -<br>Elevation 867.97 ft. (NAVD88) |  |



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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

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**1ST ADDITION**  
Ramsey, Minnesota

**SIGNING & STRIPING PLAN**

S1  
of  
S1