

AURORA ILLINOIS

PLANS FOR THE PROPOSED HAZEL CSO SEWER SEPARATION SANITARY EXTENSION AND WATER MAIN IMPROVEMENTS HAZEL AVE TO NORTH AVE

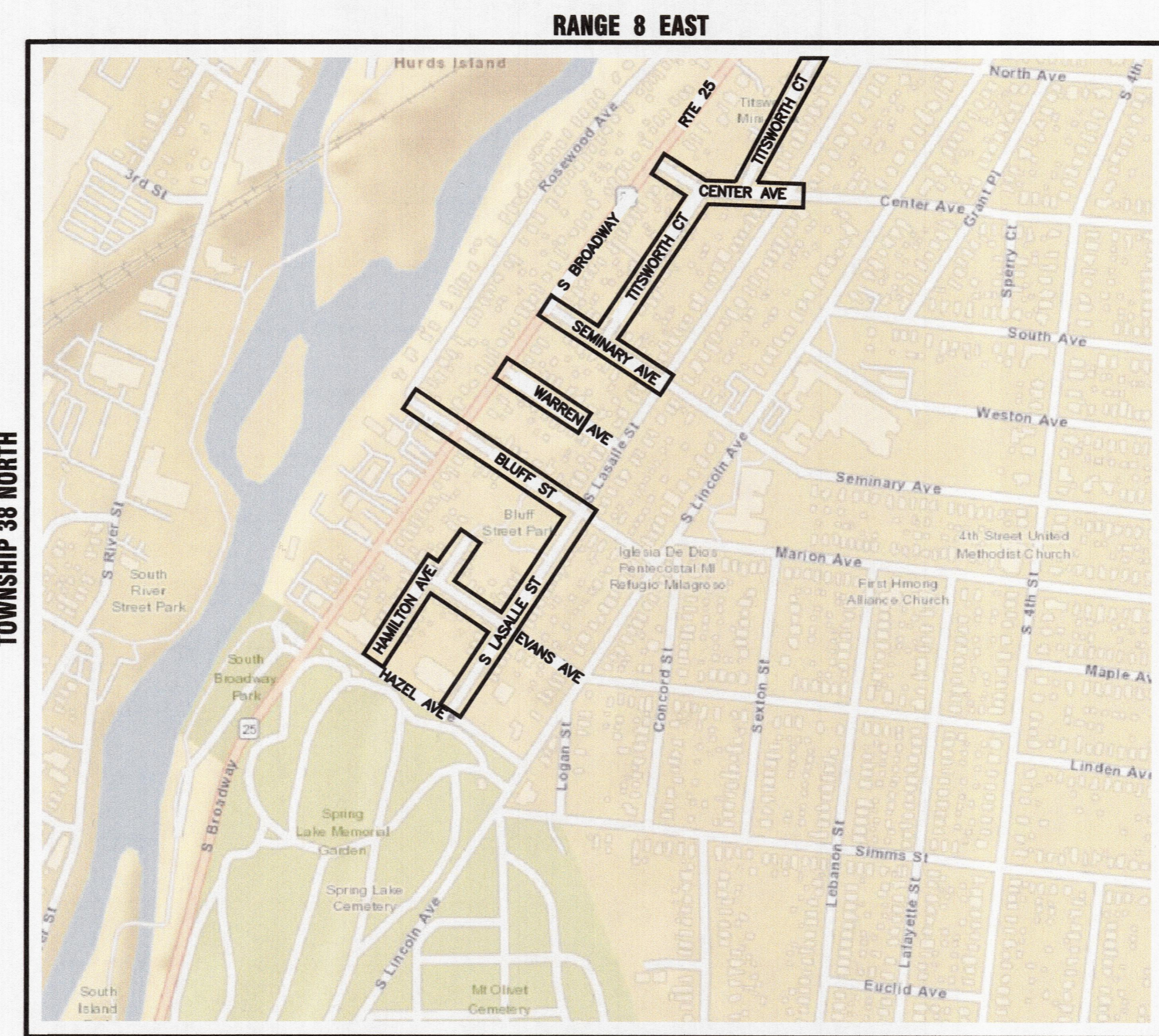
APRIL 2026

GENERALLY LOCATED IN THE SE 1/4 OF SEC. 28, T38N, R8E

INDEX OF SHEETS

- 1 COVER SHEET
- 2 PLAN OVERALL
- 3-17 PLAN AND PROFILE
- 18-25 STANDARD DETAILS

LEGEND		
EXISTING	PROPOSED	
SANITARY SEWER		
STORM SEWER		
WATER MAIN		
FORCE MAIN		
UNDERDRAIN		
OVERHEAD LINE		
CABLE TV LINE		
GAS LINE		
TELEPHONE LINE		
ELECTRIC LINE		
FENCE		
MAJOR CONTOUR		
MINOR CONTOUR		
HIGH WATER LEVEL		
NORMAL WATER LEVEL		
PAVEMENT FLOW DIRECTION		
SPOT ELEVATION		
TOP OF CURB ELEVATION		
TOP OF FOUNDATION ELEVATION		
GUTTER ELEVATION		
PAVEMENT ELEVATION		
EDGE OF PAVEMENT		
CURB AND GUTTER		
RIGHT-OF-WAY		
SANITARY MANHOLE		
SANITARY CLEANOUT		
STORM MANHOLE		
CATCH BASIN		
INLET		
FLARED END SECTION		
FIRE HYDRANT		
VALVE VAULT		
VALVE BOX		
STREET LIGHT		
POWER POLE		
STREET SIGN		
ELECTRIC BOX		
TELEPHONE BOX		
TELEPHONE MANHOLE		
B-BOX		
GAS VALVE		
TRAFFIC HANDHOLE		
ELECTRIC HANDHOLE		
TREE W/ DIAMETER		
MAILBOX		
STRUCTURE TO BE REMOVED		
PLUG EXISTING PIPE		
UTILITY CROSSING		
EXPLORATORY EXCAVATION LOCATION		
SANITARY MANHOLE REHABILITATION NUMBER		
SOIL BORING LOCATION WITH IDENTIFICATION NUMBER & ELEVATION		



KANE COUNTY - AURORA TOWNSHIP
THIRD PRINCIPAL MERIDIAN

LOCATION MAP
NOT TO SCALE

THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE LATEST ILLINOIS SUPPLEMENT TO THE MUTCD ARE TO BE USED FOR SIGNAGE. ALL TRAFFIC CONTROL DEVICES USED WITHIN IDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, IDOT HIGHWAY STANDARDS, AND IDOT APPROVED PRODUCT LIST.

Dial 811 or 1-800-892-0123

Know what's below.
Call before you dig.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
811 OR 1-800-892-0123

CONSTRUCTION AND MAINTENANCE TO BE IN ACCORDANCE WITH ALL APPLICABLE REGULATORY REQUIREMENTS AND STANDARDS

PRINTED BY THE AUTHORITY
OF THE CITY OF AURORA

PLANS PREPARED BY:

CITY OF AURORA

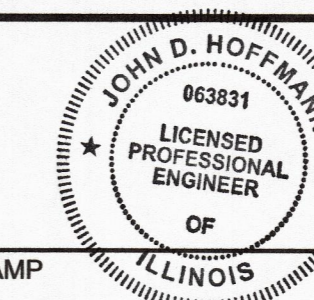
DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION

2185 LIBERTY ST, AURORA, IL 60502

PHONE: 630-256-3200 FAX: 630-256-3229

REVISIONS:

DESIGNED BY: KTM & OS	DRAWN BY: AHB	CHECKED BY: KTM	APPROVED BY: KTM	HORIZ. SCALE: N/A	DATE: APRIL 2026
				VERT. SCALE: N/A	



STAMP

ILLINOIS REGISTERED PROFESSIONAL

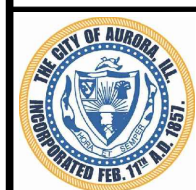
ENGINEER No.

062.063831

LICENSE EXPIRES

NOVEMBER 30, 2027

4-28-2026
DATE



CITY OF AURORA
 ENGINEERING DIVISION
 77 SOUTH BROADWAY
 AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY: OS	CHECKED BY: KM	SCALE: N.T.S.
DRAWN BY: AHB	APPROVED BY: KM	DATE: 2026

PROJECT

CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL

SHEET TITLE

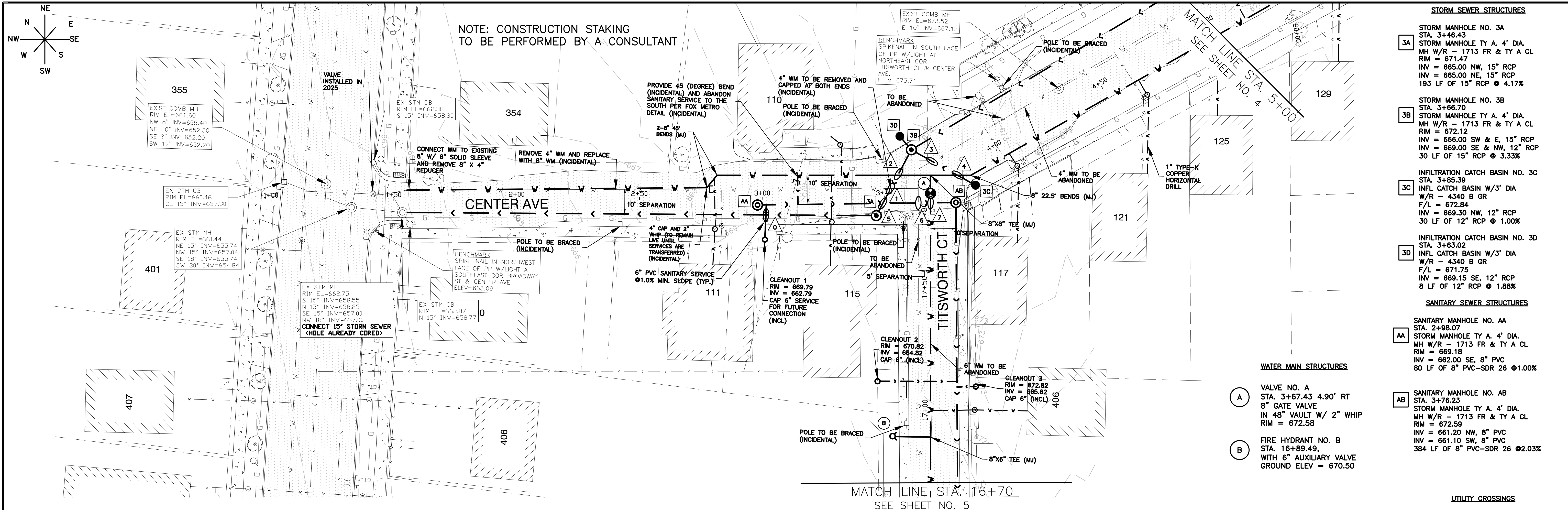
STANDARD DETAILS

SHEET NUMBER

2

TOTAL SHEETS

25



NOTE: CONSTRUCTION STAKING TO BE PERFORMED BY A CONSULTANT

STORM SEWER STRUCTURES

- 3A STORM MANHOLE NO. 3A
STA. 3+46.43
MH W/R - 1713 FR & TY A CL
RIM = 671.47
INV = 665.00 NW, 15" RCP
INV = 665.00 NE, 15" RCP
193 LF OF 15" RCP @ 4.17%
- 3B STORM MANHOLE NO. 3B
STA. 3+66.70
MH W/R - 1713 FR & TY A CL
RIM = 672.12
INV = 666.00 SW & E, 15" RCP
INV = 669.00 SE & NW, 12" RCP
30 LF OF 15" RCP @ 3.33%
- 3C INFILTRATION CATCH BASIN NO. 3C
STA. 3+85.39
INFL CATCH BASIN W/3' DIA
W/R - 4340 B GR
F/L = 672.84
INV = 669.30 NW, 12" RCP
30 LF OF 12" RCP @ 1.00%
- 3D INFILTRATION CATCH BASIN NO. 3D
STA. 3+63.02
INFL CATCH BASIN W/3' DIA
W/R - 4340 B GR
F/L = 671.75
INV = 669.15 SE, 12" RCP
8 LF OF 12" RCP @ 1.88%

SANITARY SEWER STRUCTURES

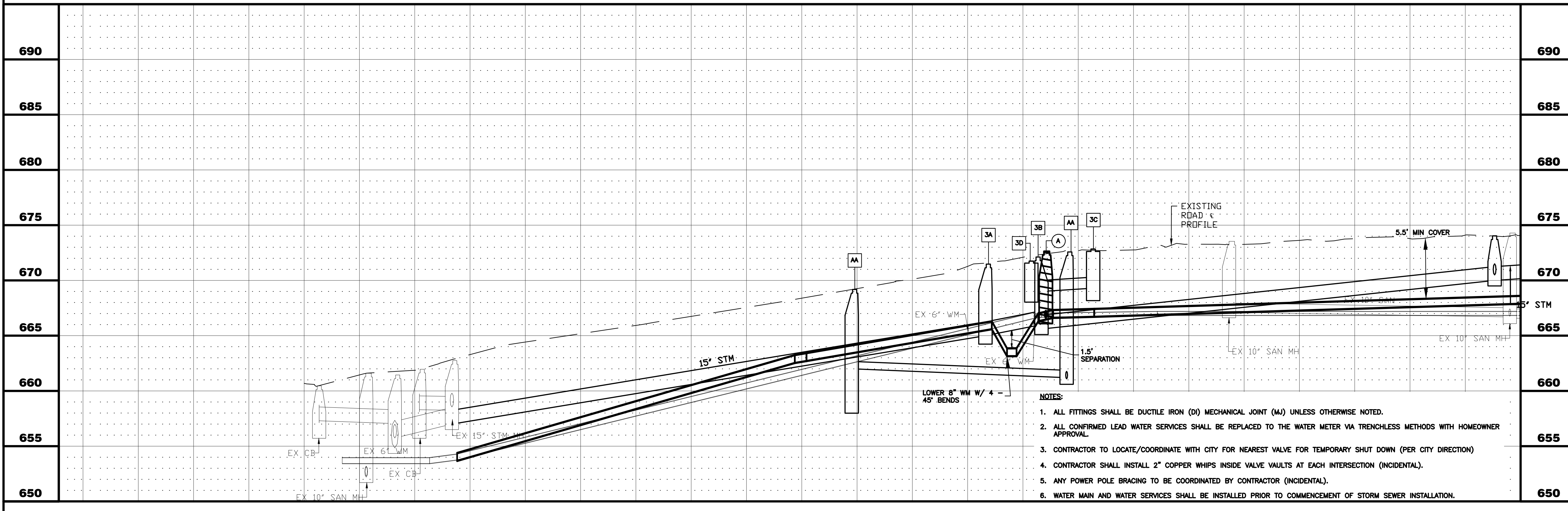
- AA SANITARY MANHOLE NO. AA
STA. 2+96.07
STORM MANHOLE TY A. 4' DIA.
MH W/R - 1713 FR & TY A CL
RIM = 669.18
INV = 662.00 SE, 8" PVC
80 LF OF 8" PVC-SDR 26 @ 1.00%
- AB SANITARY MANHOLE NO. AB
STA. 3+76.23
STORM MANHOLE TY A. 4' DIA.
MH W/R - 1713 FR & TY A CL
RIM = 672.59
INV = 661.20 NW, 8" PVC
INV = 661.10 SW, 8" PVC
384 LF OF 8" PVC-SDR 26 @ 2.03%

WATER MAIN STRUCTURES

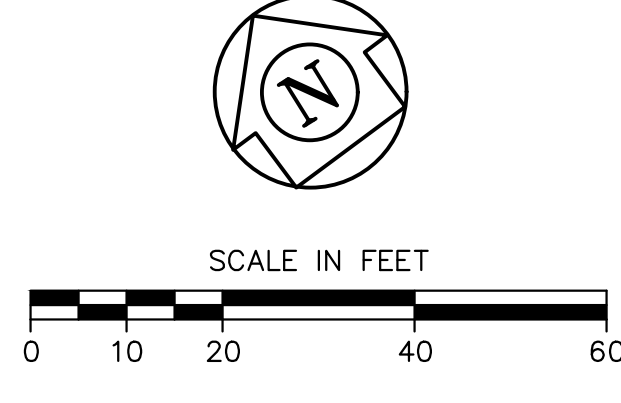
- A VALVE NO. A
STA. 3+67.43 4.90' RT
8" GATE VALVE
IN 48" VAULT W/ 2" WHIP
RIM = 672.58
- B FIRE HYDRANT NO. B
STA. 16+89.49,
WITH 6" AUXILIARY VALVE
GROUND ELEV = 670.50

UTILITY CROSSINGS

- 0 SANITARY SERVICE CROSSING
B/PR STM = 662.92
T/PR SAN = 662.67
- 1 WATER MAIN CROSSING
B/WM = 666.00
T/PR STM = 666.88
WATER MAIN TO BE REMOVED
- 2 WATER MAIN CROSSING
B/PR STM = 665.44
T/PR WM = 663.94
LOWER 8" WM W/4-45° BENDS
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER
- 3 WATER MAIN CROSSING
B/PR STM = 668.91
T/WM = 667.0
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER
- 4 WATER MAIN CROSSING
B/PR STM = 668.99
T/PR WM = 667.30
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER
- 5 SANITARY SEWER CROSSING
B/PR STM = 664.94
T/PR SAN = 662.52
- 6 WATER MAIN CROSSING
B/WM = 665.75
T/PR SAN = 662.67
NO PROTECTION REQUIRED
- 7 WATER MAIN CROSSING
B/PR WM = 665.75
T/PR SAN = 662.72
NO PROTECTION REQUIRED

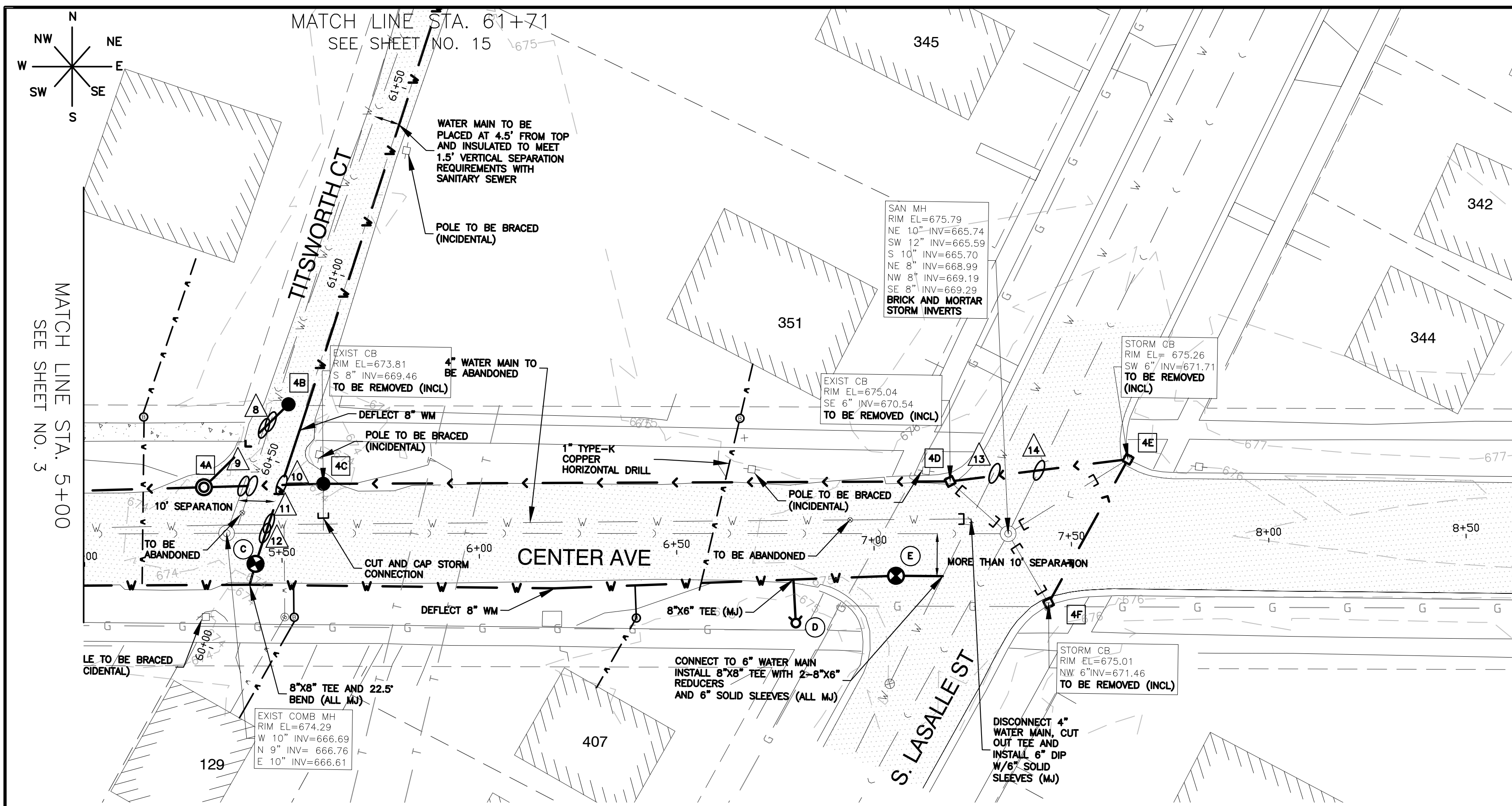


- NOTES:**
1. ALL FITTINGS SHALL BE DUCTILE IRON (DI) MECHANICAL JOINT (MJ) UNLESS OTHERWISE NOTED.
 2. ALL CONFIRMED LEAD WATER SERVICES SHALL BE REPLACED TO THE WATER METER VIA TRENCHLESS METHODS WITH HOMEOWNER APPROVAL.
 3. CONTRACTOR TO LOCATE/COORDINATE WITH CITY FOR NEAREST VALVE FOR TEMPORARY SHUT DOWN (PER CITY DIRECTION)
 4. CONTRACTOR SHALL INSTALL 2" COPPER WHIPS INSIDE VALVE VAULTS AT EACH INTERSECTION (INCIDENTAL).
 5. ANY POWER POLE BRACING TO BE COORDINATED BY CONTRACTOR (INCIDENTAL).
 6. WATER MAIN AND WATER SERVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF STORM SEWER INSTALLATION.



0+11	1+00	2+00	3+00	4+00	5+00	5+40
		CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS:		PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL
DESIGNED BY: OS DRAWN BY: AHB		CHECKED BY: KTM APPROVED BY: KTM		SCALE: 1" = 20' DATE: 2026		SHEET NUMBER 3
SHEET TITLE PLAN & PROFILE - CENTER AVE - STA. 0+11 - 5+40						TOTAL SHEETS 25

PLOT DATE: 4/27/2026 11:35 AM
 FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO P&P.DWG
 LAST SAVED BY: HernandezA



STORM SEWER STRUCTURES

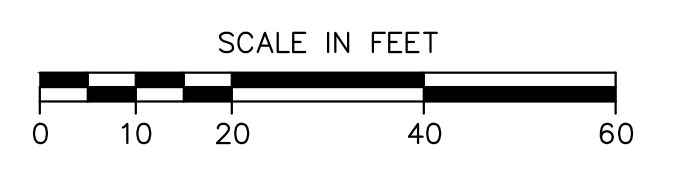
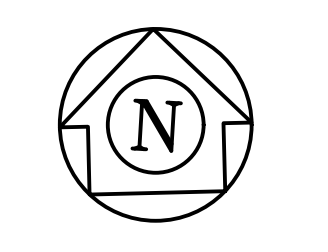
- 4A** STORM MANHOLE NO. 4A
 STA. 5+30.60
 STORM MANHOLE TY A. 4' DIA
 MH W/R - 2504 FR & TY D GR
 RIM = 674.04
 INV = 670.00 E & W, 15" RCP
 INV = 670.50 NE, 12" RCP
 161 LF OF 15" RCP @ 2.48%
- 4B** INLET NO. 4B
 STA. 5+52.44
 INLET W/2' DIA.
 W/R - 2504 FR & TY D GR
 RIM = 674.12
 INV = 671.00 SW, 12" RCP
 30 LF OF 12" RCP @ 1.67%
- 4C** INFILTRATION CATCH BASIN NO. 4C
 STA. 5+60.84
 REMOVE CATCH BASIN
 REPLACE W/3' DIA. INFL CATCH BASIN
 W/R - 2504 FR & TY D GR
 F/L = 673.81
 INV = 670.50 E, 15" RCP
 INV = 670.50 W, 15" RCP
 30 LF OF 15" RCP @ 1.67%
- 4D** INFILTRATION CATCH BASIN NO. 4D
 STA. 7+19.82
 REMOVE CATCH BASIN
 REPLACE W/3' DIA. INFL CATCH BASIN
 W/R - 3015 FR & TY R GR
 F/L = 675.04
 INV = 672.20 E, 15" RCP
 INV = 672.20 W, 15" RCP
 160 LF OF 15" RCP @ 1.06%
- 4E** INFILTRATION CATCH BASIN NO. 4E
 STA. 7+64.78
 REMOVE CATCH BASIN
 REPLACE W/3' DIA. INFL CATCH BASIN
 W/R - 3015 FR & TY R GR
 F/L = 675.26
 INV = 672.70 SW, 12" RCP
 INV = 672.70 W, 15" RCP
 45 LF OF 15" RCP @ 1.11%
- 4F** INFILTRATION CATCH BASIN NO. 4F
 STA. 7+43.91
 REMOVE CATCH BASIN
 REPLACE W/3' DIA. INFL CATCH BASIN
 W/R - 3015 FR & TY R GR
 F/L = 675.01
 INV = 673.00 NE, 12" RCP
 42 LF OF 12" RCP @ 0.71%

WATER MAIN STRUCTURES

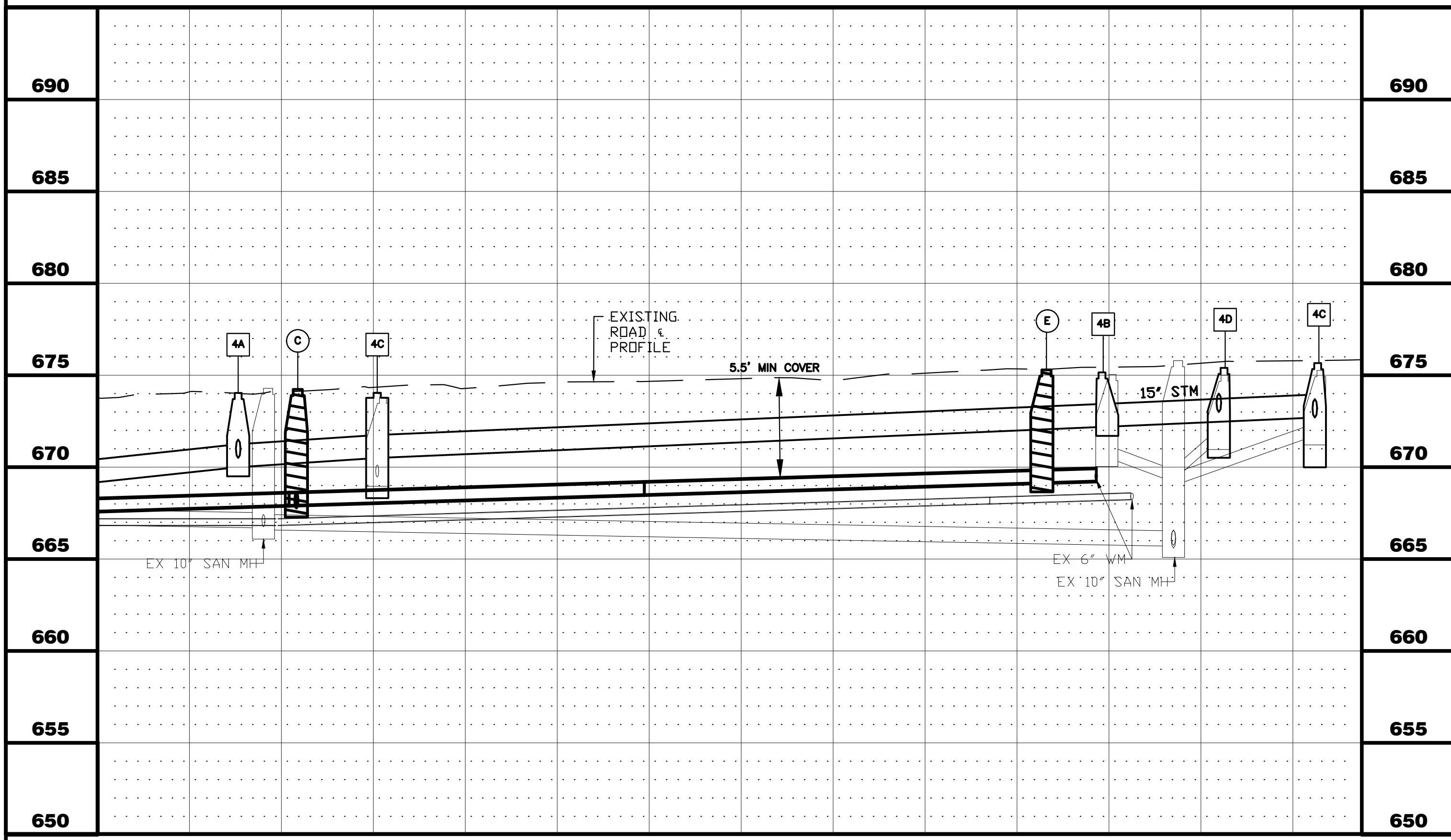
- C** VALVE NO. C
 STA. 5+52.15, 28.76' LT
 8" GATE VALVE
 IN 48" VAULT W/ 2" WHIP
 RIM = 674.09
- D** FIRE HYDRANT NO. D
 STA. 6+79.81,
 WITH 6" AUXILIARY VALVE
 GROUND ELEV = 675.25
- E** VALVE NO. E
 STA. 7+05.40, 6.59' RT
 8" GATE VALVE
 IN 48" VAULT W/ 2" WHIP
 RIM = 675.29

UTILITY CROSSINGS

- 8** STORM SEWER CROSSING
 T/WM = 669.00
 T/SAN = 667.82
 B/STM = 670.71
 WATER MAIN TO BE ABANDONED
- 9** WATER MAIN & SANITARY CROSSING
 B/PR STM = 670.00
 T/WM = 668.5
 T/SAN = 668
 WATER MAIN TO BE REMOVED
- 10** WATER MAIN CROSSING
 B/PR STM = 670.14
 T/PR WM = 668.50
 NO PROTECTION REQUIRED
 RCP RUBBER GASKET STORM SEWER
- 11** WATER MAIN CROSSING
 T/PR WM = 668.50
 B/WM = 669.06
- 12** SANITARY SEWER CROSSING
 B/PR WM = 669.06
 T/SAN = 667.56
 NO PROTECTION REQUIRED
- 13** WATER MAIN CROSSING
 B/PR STM = 671.48
 T/WM = 666.80
 NO PROTECTION REQUIRED RCP
 RUBBER GASKET STORM SEWER
- 14** SANITARY SEWER CROSSING
 B/PR STM = 671.81
 T/SAN = 667.00

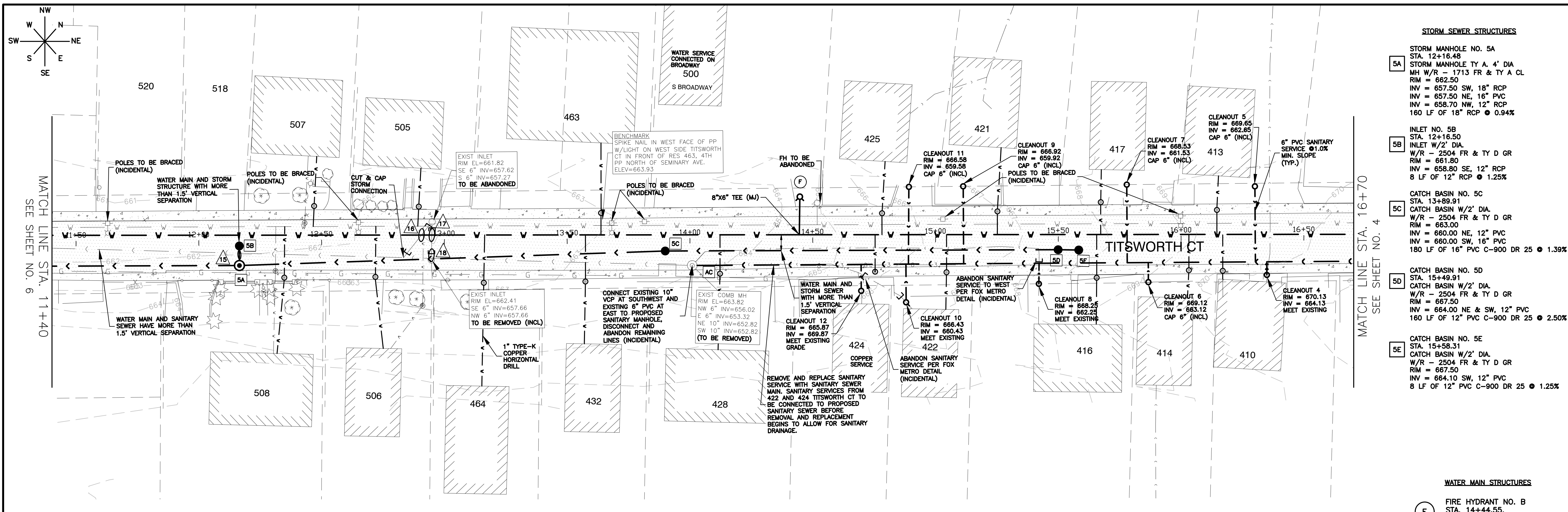


- NOTES:**
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 - ALL CONFIRMED LEAD WATER SERVICES SHALL BE REPLACED TO THE WATER METER VIA TRENCHLESS METHODS WITH HOMEOWNER APPROVAL.
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5+00	6+00	7+00	7+75
CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS:	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL
DESIGNED BY: OS DRAWN BY: AHB	CHECKED BY: KTM APPROVED BY: KTM	SCALE: 1" = 20' DATE: 2026	SHEET NUMBER 4
SHEET TITLE PLAN & PROFILE - CENTER AVE - STA. 5+00 - 7+75			TOTAL SHEETS 25

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STORM SEWER STRUCTURES

- STORM MANHOLE NO. 5A
STA. 12+16.48
MH W/R - 1713 FR & TY A CL
RIM = 662.50
INV = 657.50 SW, 18" RCP
INV = 657.50 NE, 16" PVC
INV = 658.70 NW, 12" RCP
160 LF OF 18" RCP @ 0.94%
- INLET NO. 5B
STA. 12+16.50
INLET W/2' DIA.
W/R - 2504 FR & TY D GR
RIM = 661.80
INV = 658.80 SE, 12" RCP
8 LF OF 12" RCP @ 1.25%
- CATCH BASIN NO. 5C
STA. 13+89.91
CATCH BASIN W/2' DIA.
W/R - 2504 FR & TY D GR
RIM = 663.00
INV = 660.00 NE, 12" PVC
INV = 660.00 SW, 16" PVC
180 LF OF 16" PVC C-900 DR 25 @ 1.39%
- CATCH BASIN NO. 5D
STA. 15+49.91
CATCH BASIN W/2' DIA.
W/R - 2504 FR & TY D GR
RIM = 667.50
INV = 664.00 NE & SW, 12" PVC
160 LF OF 12" PVC C-900 DR 25 @ 2.50%
- CATCH BASIN NO. 5E
STA. 15+58.31
CATCH BASIN W/2' DIA.
W/R - 2504 FR & TY D GR
RIM = 667.50
INV = 664.10 SW, 12" PVC
8 LF OF 12" PVC C-900 DR 25 @ 1.25%

WATER MAIN STRUCTURES

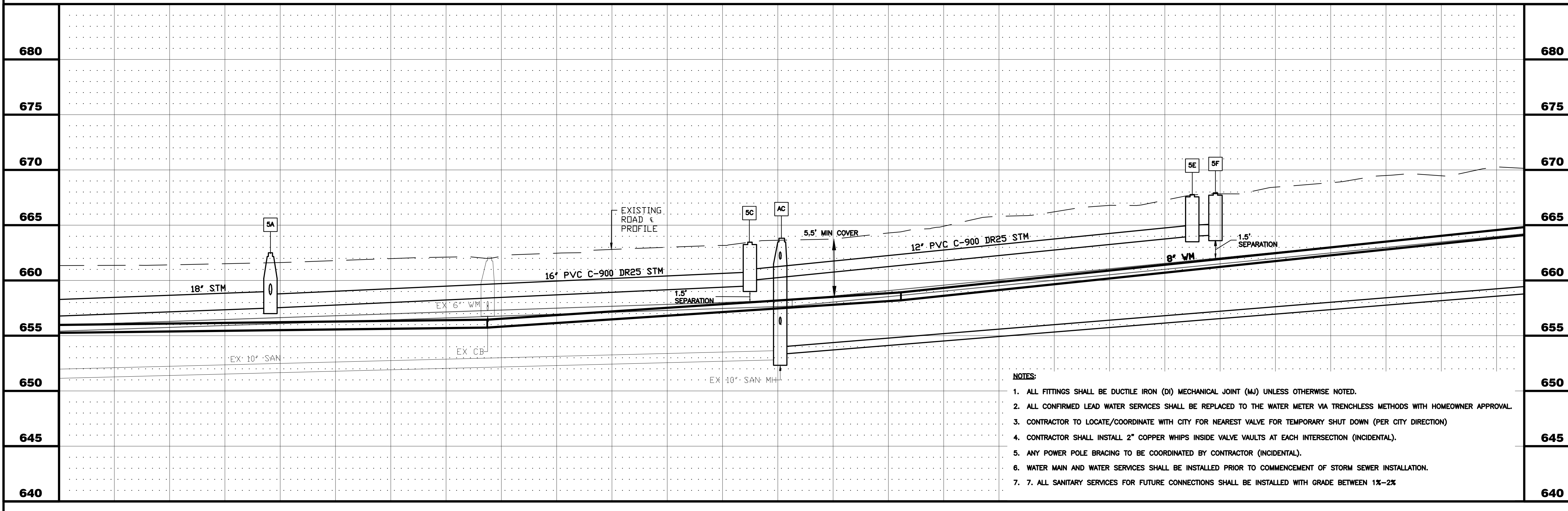
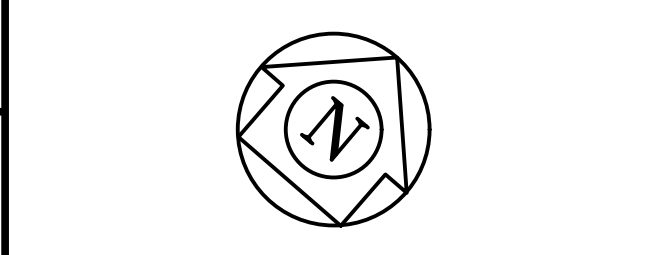
- FIRE HYDRANT NO. B
STA. 14+44.55,
WITH 6" AUXILIARY VALVE
GROUND ELEV = 664.29

SANITARY SEWER STRUCTURES

- SANITARY MANHOLE NO. AA
STA. 14+00.88
STORM MANHOLE TY A. 4" DIA.
MH W/R - 1713 FR & TY A CL
RIM = 663.82
INV = 653.32 E, EXISTING 6" PVC
INV = 652.82 SW, EXISTING 10" VCP
INV = 653.32 NE, 8" PVC

UTILITY CROSSINGS

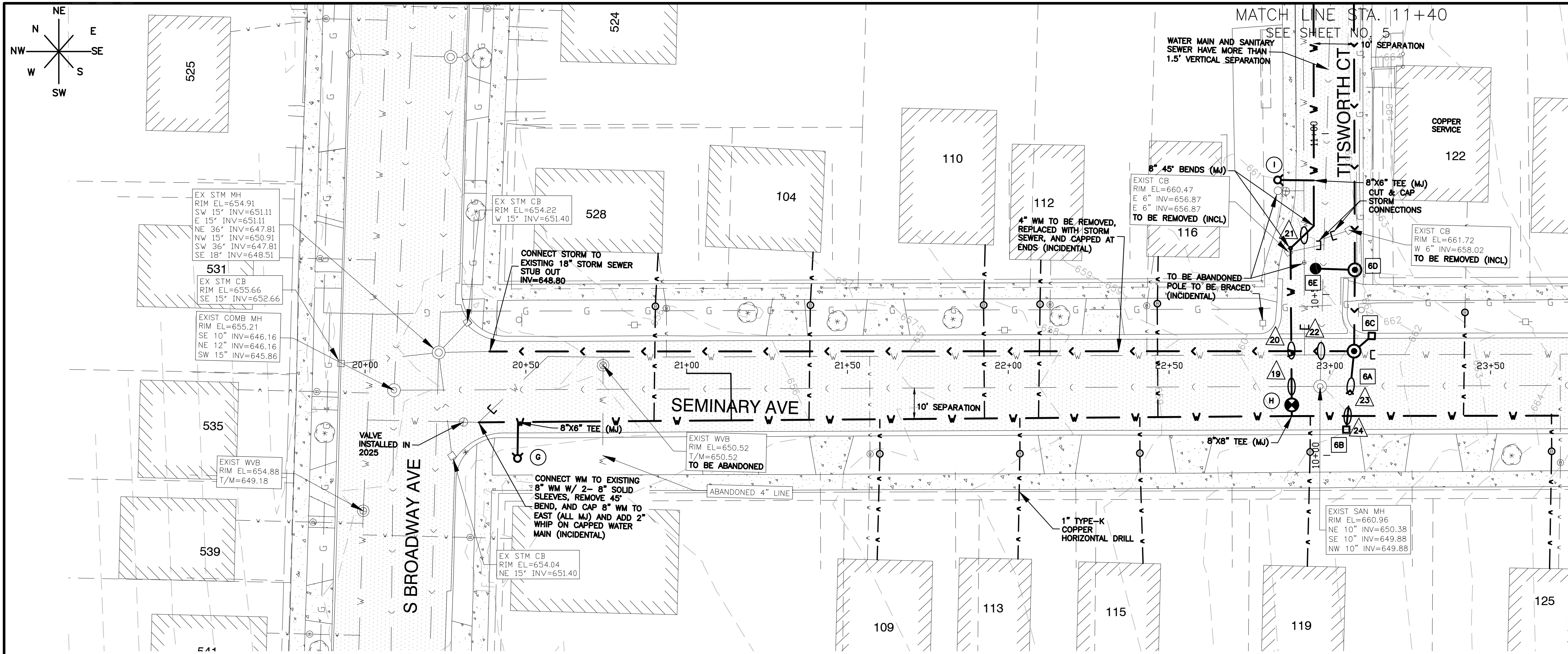
- SANITARY SEWER CROSSING
B/PR STM = 658.56
T/SAN = 652.63
- STORM SEWER CROSSING
B/PR WM = 655.75
T/STM = 655.64
STORM PIPE TO BE REMOVED
- STORM SEWER CROSSING
T/PR WM = 656.50
B/STM = 657.47
STORM PIPE TO BE REMOVED
- SANITARY SEWER CROSSING
B/PR STM = 658.61
T/SAN = 652.96



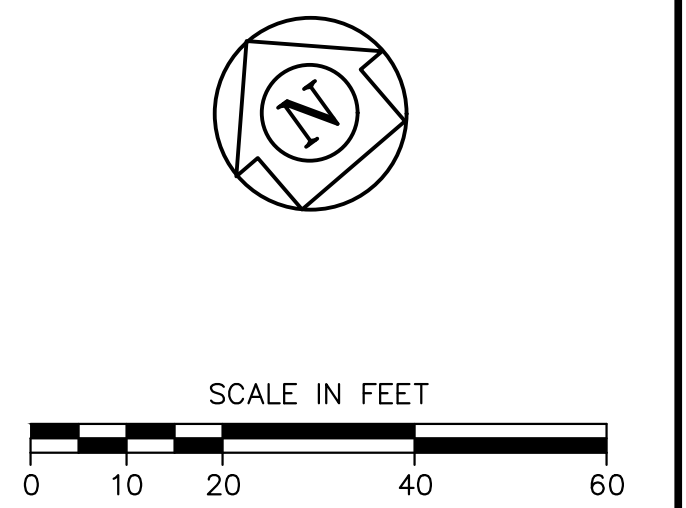
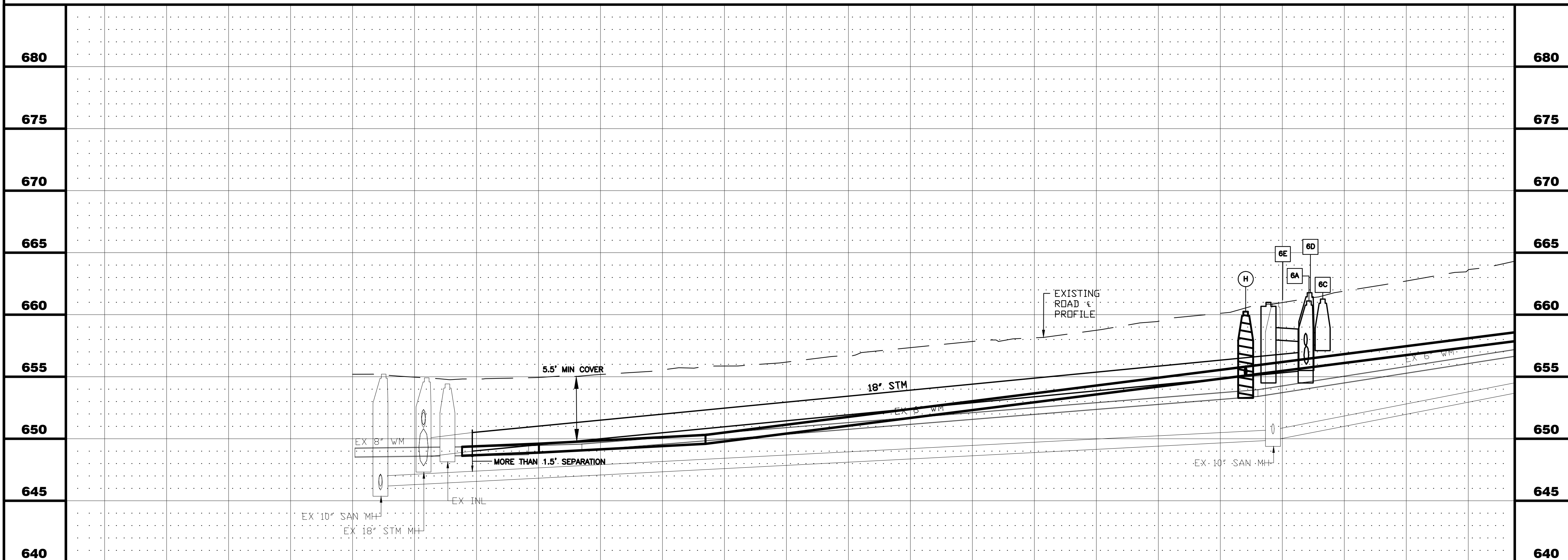
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 - WATER MAIN AND WATER SERVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF STORM SEWER INSTALLATION.
 - ALL SANITARY SERVICES FOR FUTURE CONNECTIONS SHALL BE INSTALLED WITH GRADE BETWEEN 1%-2%

11+40	12+00	13+00	14+00	15+00	16+00	16+70
		CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS:		PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL
DESIGNED BY: KTM DRAWN BY: AHB		CHECKED BY: KTM APPROVED BY: KTM		SCALE: 1" = 20' DATE: 2026		SHEET TITLE PLAN & PROFILE - TITSWORTH CT - STA. 11+40 - 16+70
						SHEET NUMBER 5 TOTAL SHEETS 25

PLOT DATE: 4/27/2026 11:35 AM
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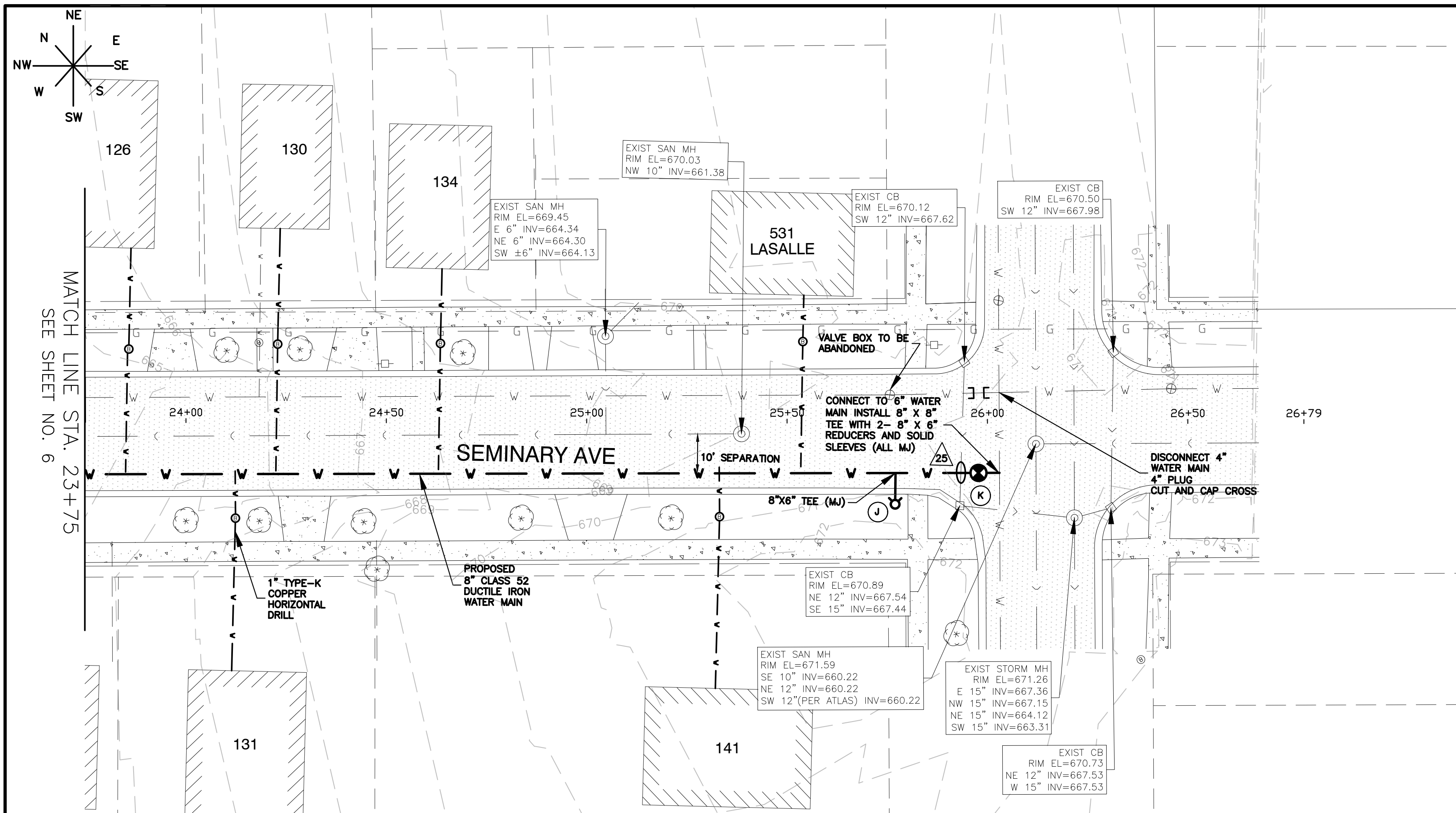
- STORM SEWER STRUCTURES**
- 6A STORM MANHOLE NO. 6A
STA. 23+07.49
STORM MANHOLE TY A. 4' DIA.
MH W/R - 1713 FR & TY A CL
RIM = 661.21
INV = 657.50 SW, 12" RCP
INV = 655.50 NE, 18" RCP
INV = 657.50 E, 12" RCP
INV = 655.50 NW, 18" RCP
287 LF OF 18" RCP @ 2.41%
 - 6B INFILTRATION CATCH BASIN NO. 6B
STA. 23+05.12
INF. CATCH BASIN W/3' DIA.
W/R - 3015 FR & TY R GR
F/L = 660.77
INV = 657.80 NE, 12" RCP
26 LF OF 12" RCP @ 1.15%
 - 6C INFILTRATION CATCH BASIN NO. 6C
STA. 23+13.02
INF. CATCH BASIN W/3' DIA.
W/R - 3015 FR & TY R GR
F/L = 661.26
INV = 657.60 SW, 12" RCP
8 LF OF 12" RCP @ 1.25%
 - 6D STORM MANHOLE NO. 6D
STA. 10+63.09
STORM MANHOLE TY A. 4' DIA.
MH W/R - 1713 FR & TY A CL
RIM = 661.76
INV = 657.80 NW, 12" RCP
INV = 656.00 NE & SW, 18" RCP
24 LF OF 18" RCP @ 2.08%
 - 6E INLET NO. 6E
STA. 10+58.07
INLET 2' DIA., TY C
W/R - 2504 FR & TY D GR
F/L = 660.99
INV = 658.00 SE, 12" RCP
16 LF OF 12" RCP @ 1.25%
- WATER MAIN STRUCTURES**
- G FIRE HYDRANT NO. G
STA. 20+47.40,
WITH 6" AUXILIARY VALVE
GROUND ELEV = 655.29
 - H VALVE NO. H
STA. 22+88.16, 9.6' RT
8" GATE VALVE
IN 48" VAULT W/ 2" WHIP
RIM = 660.25
 - I FIRE HYDRANT NO. I
STA. 22+83.69,
WITH 6" AUXILIARY VALVE
GROUND ELEV = 660.98
- UTILITY CROSSINGS**
- 19 SANITARY SEWER CROSSING
B/PR WM = 654.25
T/SAN = 650.76
NO PROTECTION REQUIRED
 - 20 STORM AND WATER MAIN CROSSING
T/PR WM = 653.45
B/PR STM = 654.95
LOWER 8" WM W/2- 45" BENDS
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER
 - 21 WATER MAIN CROSSING
T/PR WM = 655.00
B/WM = 655.50
 - 22 SANITARY SEWER CROSSING
B/PR STM = 655.17
T/SAN = 651.44
 - 23 SANITARY SEWER CROSSING
B/PR STM = 657.40
T/SAN = 651.37
 - 24 WATER MAIN CROSSING
B/PR STM = 657.50
T/PR WM = 656.00
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER



- NOTES:**
1. ALL FITTINGS SHALL BE DUCTILE IRON (DI) MECHANICAL JOINT (MJ) UNLESS OTHERWISE NOTED.
 2. ALL CONFIRMED LEAD WATER SERVICES SHALL BE REPLACED TO THE WATER METER VIA TRENCHLESS METHODS WITH HOMEOWNER APPROVAL.
 3. CONTRACTOR TO LOCATE/COORDINATE WITH CITY FOR NEAREST VALVE FOR TEMPORARY SHUT DOWN (PER CITY DIRECTION)
 4. CONTRACTOR SHALL INSTALL 2" COPPER WHIPS INSIDE VALVE VAULTS AT EACH INTERSECTION (INCIDENTAL).
 5. ANY POWER POLE BRACING TO BE COORDINATED BY CONTRACTOR (INCIDENTAL).
 6. WATER MAIN AND WATER SERVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF STORM SEWER INSTALLATION.

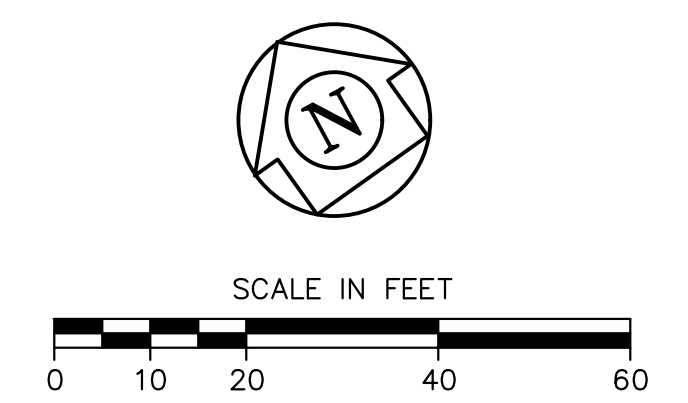
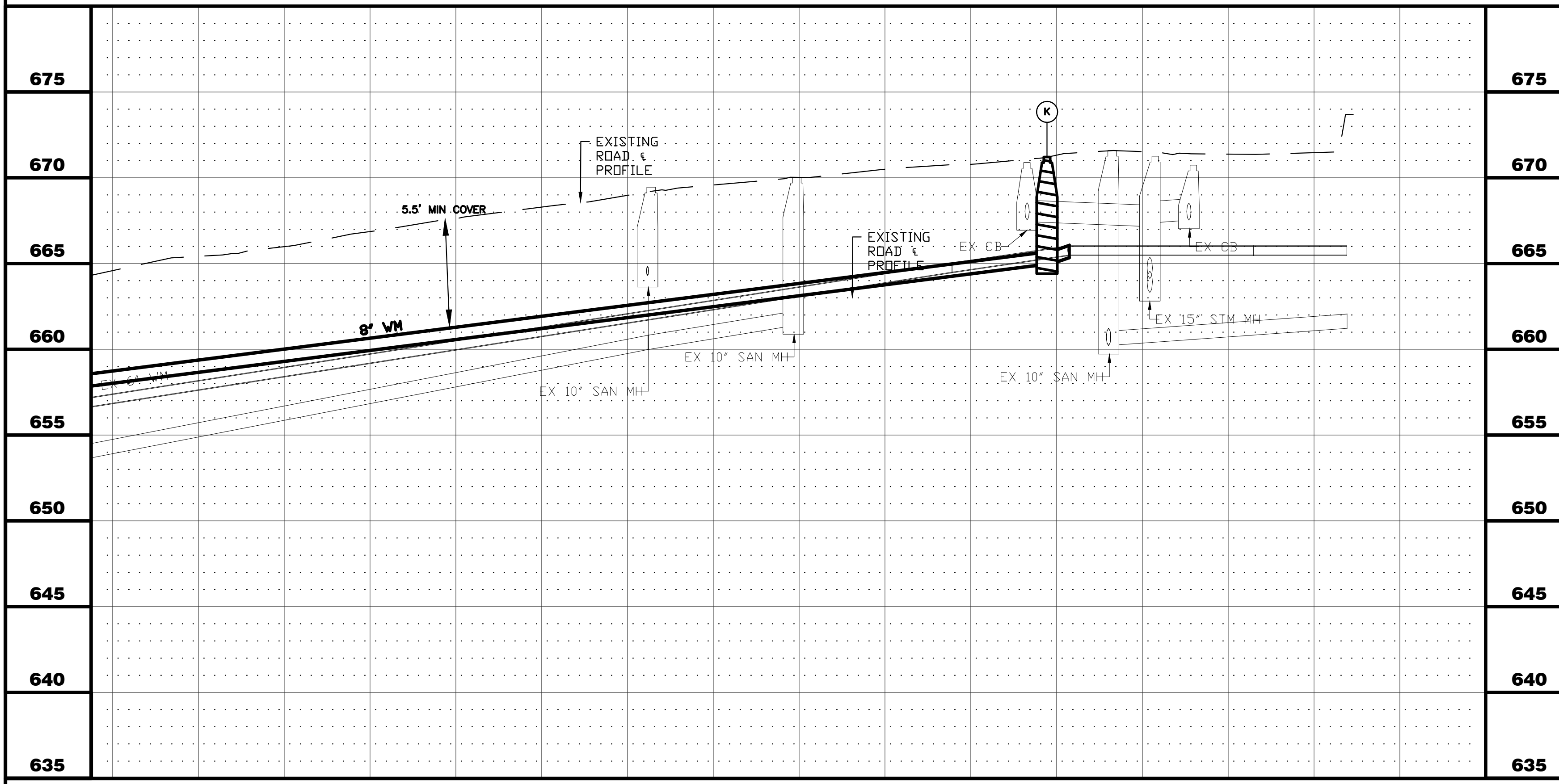
19+08	20+00	21+00	22+00	23+00	23+75
CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS: 	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL	SHEET NUMBER 6	
DESIGNED BY: KTM DRAWN BY: AHB		CHECKED BY: KTM APPROVED BY: KTM	SCALE: 1" = 20' DATE: 2026	SHEET TITLE PLAN & PROFILE - SEMINARY AVE - STA. 19+08 - 23+75	
TOTAL SHEETS 25					

PLOT DATE: 4/27/2026 11:35 AM
 FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO P&P.DWG
 LAST SAVED BY: Hermandea



- WATER MAIN STRUCTURES**
- (J) FIRE HYDRANT NO. J
STA. 25+76.93,
WITH 6" AUXILIARY VALVE
GROUND ELEV = 671.66
 - (K) VALVE NO. K
STA. 25+97.78, 12.38' RT
8" GATE VALVE
IN 48" VAULT W/ 2" WHIP
RIM = 671.21

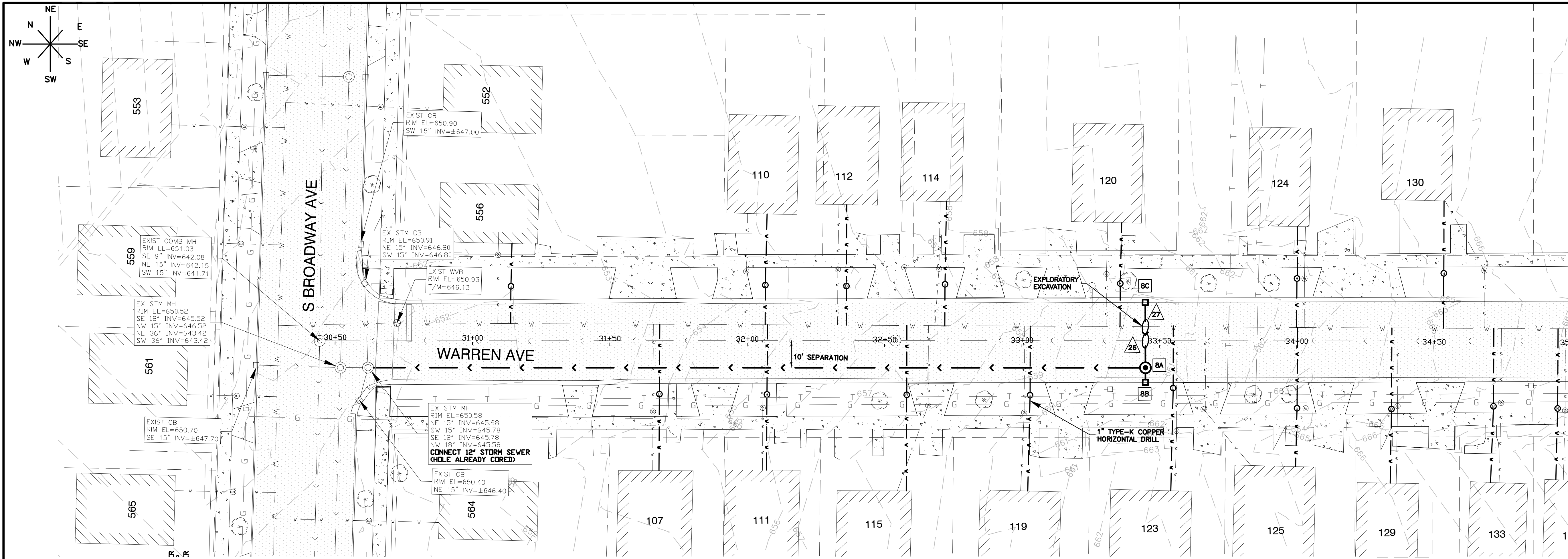
- UTILITY CROSSINGS**
- 25 STORM SEWER CROSSING
B/STM = 657.40
T/PR WM = 665.50
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER



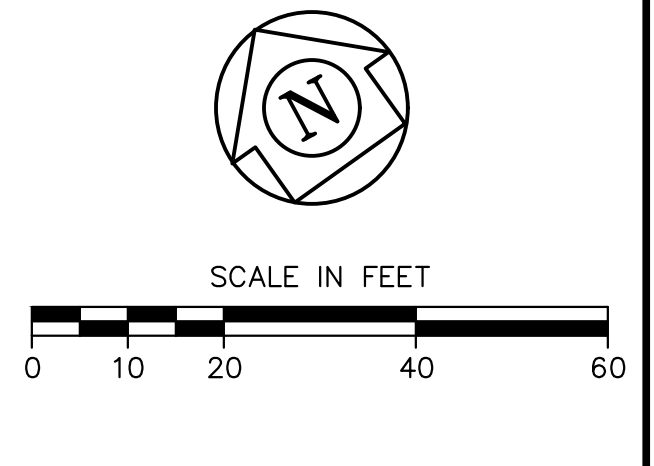
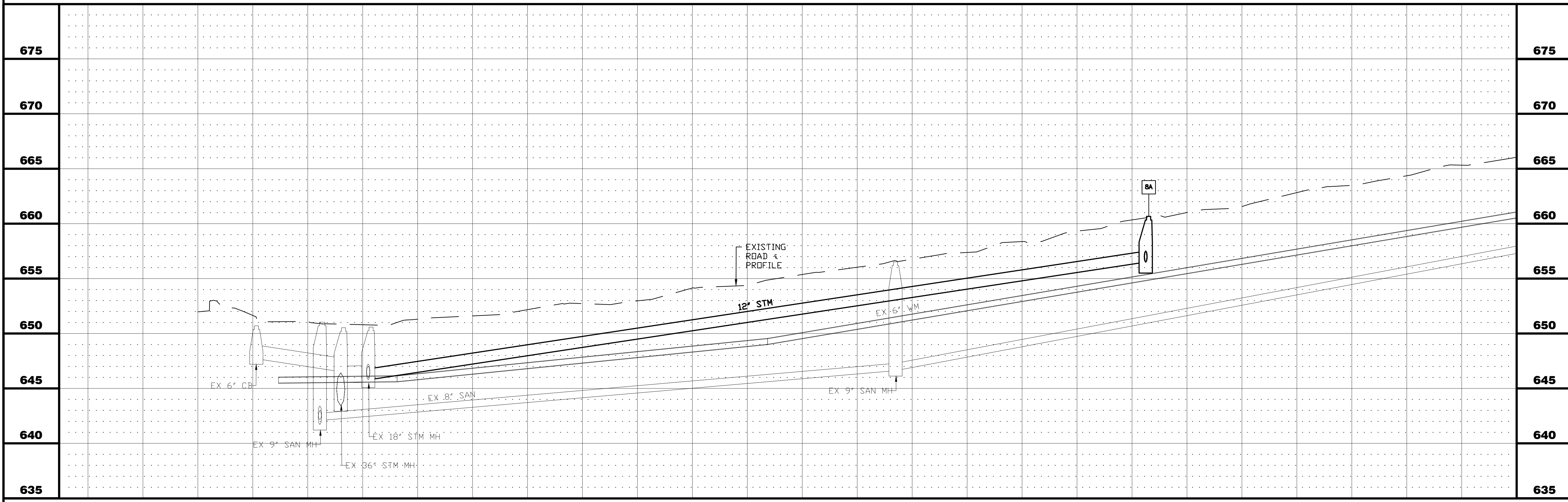
- NOTES:**
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 2. ALL CONFIRMED LEAD WATER SERVICES SHALL BE REPLACED TO THE WATER METER VIA TRENCHLESS METHODS WITH HOMEOWNER APPROVAL.
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 6. WATER MAIN AND WATER SERVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF STORM SEWER INSTALLATION.

PLOT DATE: 4/27/2026 11:36 AM LAST SAVED BY: Hermandez P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO P&P.DWG

23+75	24+00	25+00	26+00	27+00		SHEET NUMBER 7													
CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505					REVISIONS: <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>DESIGNED BY:</td> <td>KTM</td> <td>CHECKED BY:</td> <td>KTM</td> <td>SCALE:</td> <td>1" = 20'</td> </tr> <tr> <td>DRAWN BY:</td> <td>AHB</td> <td>APPROVED BY:</td> <td>KTM</td> <td>DATE:</td> <td>2026</td> </tr> </table>	DESIGNED BY:	KTM	CHECKED BY:	KTM	SCALE:	1" = 20'	DRAWN BY:	AHB	APPROVED BY:	KTM	DATE:	2026	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL SHEET TITLE PLAN & PROFILE - SEMINARY AVE - STA. 23+75 - 27+00	TOTAL SHEETS 25
DESIGNED BY:	KTM	CHECKED BY:	KTM	SCALE:	1" = 20'														
DRAWN BY:	AHB	APPROVED BY:	KTM	DATE:	2026														



- STORM SEWER STRUCTURES**
- BA** STORM MANHOLE NO. 8A
STA. 33+44.99
STORM MANHOLE TY A. 4' DIA.
MH W/R - 1713 FR & TY A CL
RIM = 660.66
INV = 655.50 NW, 12" RCP
INV = 656.50 NE, 12" RCP
INV = 656.50 SW, 12" RCP
283 LF OF 12" RCP @ 3.43%
 - BB** INFILTRATION CATCH BASIN NO. 8B
STA. 33+45.01
INFL CATCH BASIN W/3' DIA.
W/R - 3015 FR & TY R GR
FL = 660.75
INV = 656.80 NE, 12" RCP
5 LF OF 12" RCP @ 2.00%
 - BC** INFILTRATION CATCH BASIN NO. 8C
STA. 33+44.84
INFL CATCH BASIN W/3' DIA.
W/R - 3015 FR & TY R GR
FL = 660.20
INV = 656.80 SW, 12" RCP
24 LF OF 12" RCP @ 1.25%
- UTILITY CROSSINGS**
- 28** SANITARY SEWER CROSSING
B/PR STM = 656.46
T/SAN = 650.98
 - 27** WATER MAIN CROSSING
B/PR STM = 656.52
T/WM = 655.00
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER

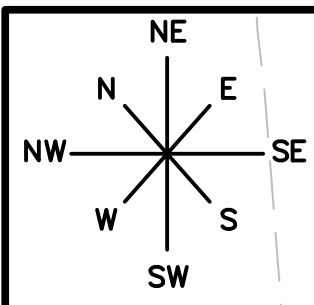


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29+50	30+00	31+00	32+00	33+00	34+00	34+80
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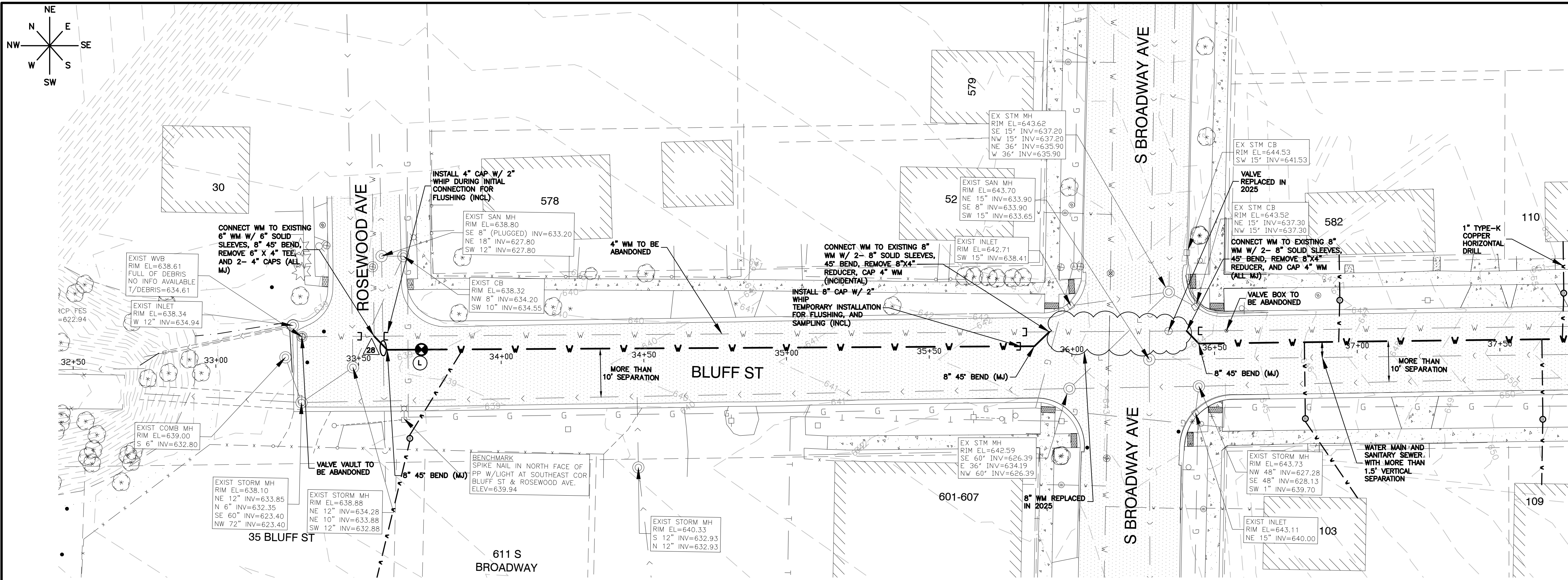
	CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505	REVISIONS:	DESIGNED BY: KTM CHECKED BY: KTM SCALE: 1" = 20"	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL	SHEET NUMBER 8
	DRAWN BY: AHB APPROVED BY: KTM DATE: 2026	SHEET TITLE PLAN & PROFILE - S BROADWAY - STA. 39+25 TO STA. 44+50	TOTAL SHEETS 25		

PLOT DATE: 4/27/2026 11:36 AM
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 LAST SAVED BY: HernandezA

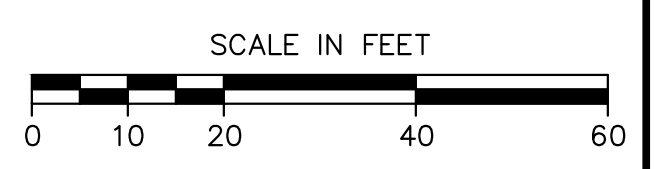
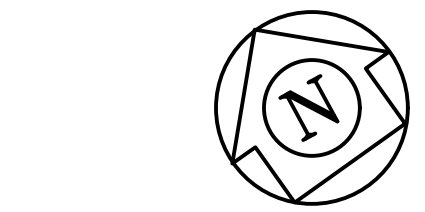
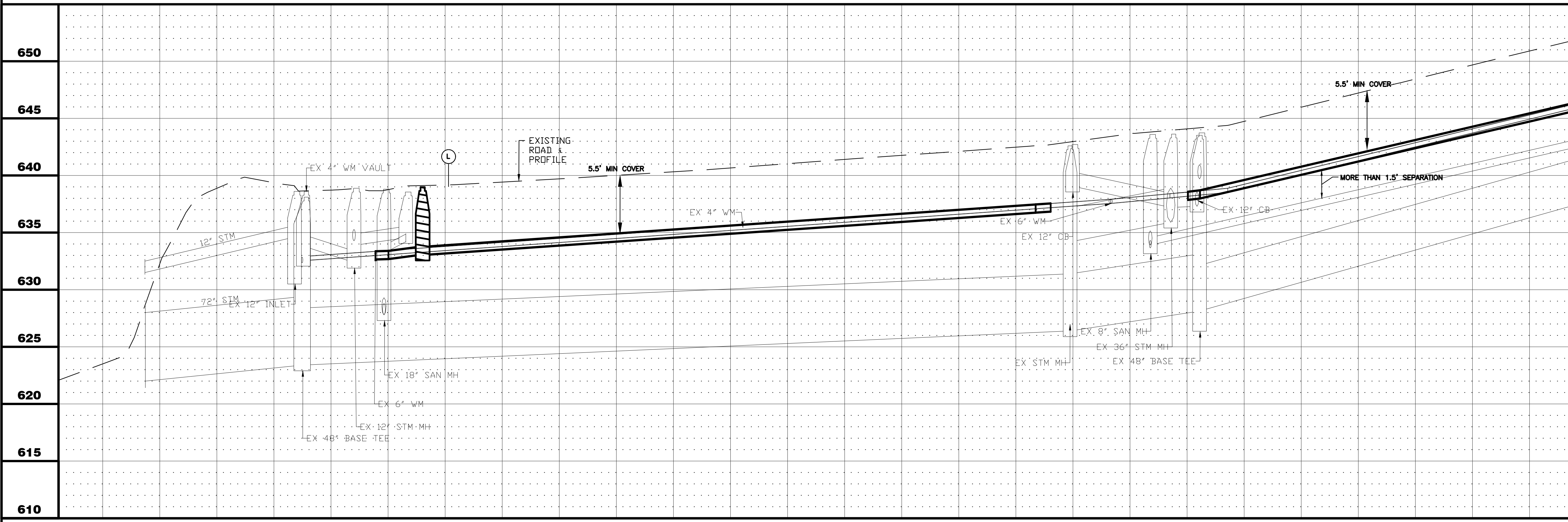


WATER MAIN STRUCTURES
 VALVE VAULT NO. L
 STA. 33+72.11, 5.35 LT
 8" GATE VALVE
 IN 48" VAULT W/ 2" WHIP
 RIM = 638.98

UTILITY CROSSINGS
 WATER MAIN CROSSING
 B/WM = 632.25
 T/SAN = 628.80
 NO PROTECTION REQUIRED



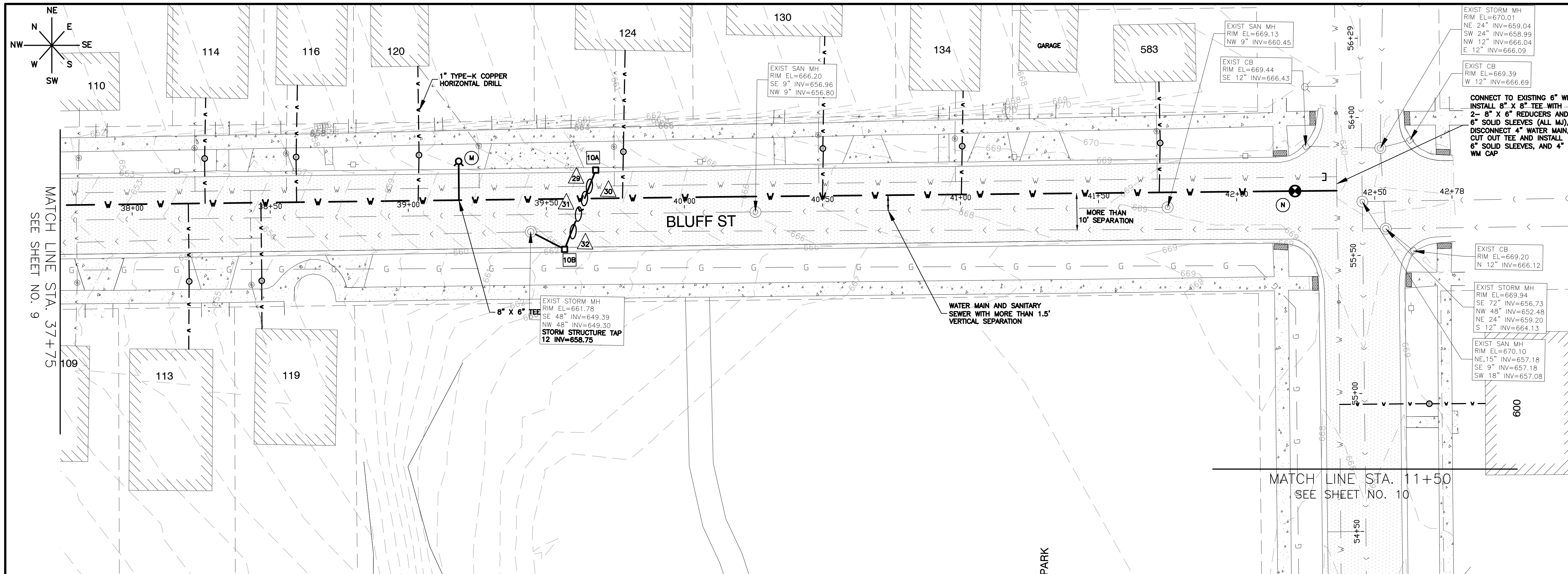
MATCH LINE STA. 37+75
 SEE SHEET NO. 10



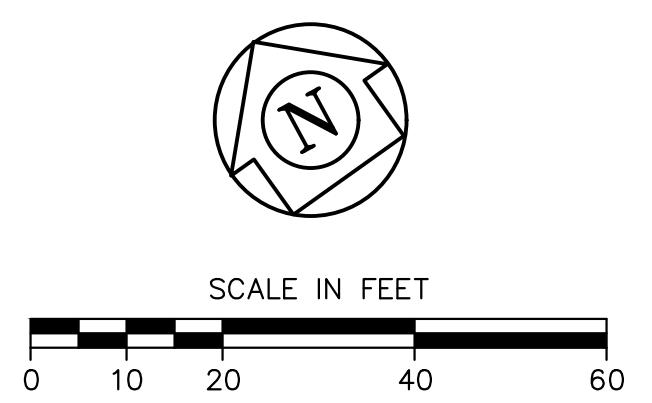
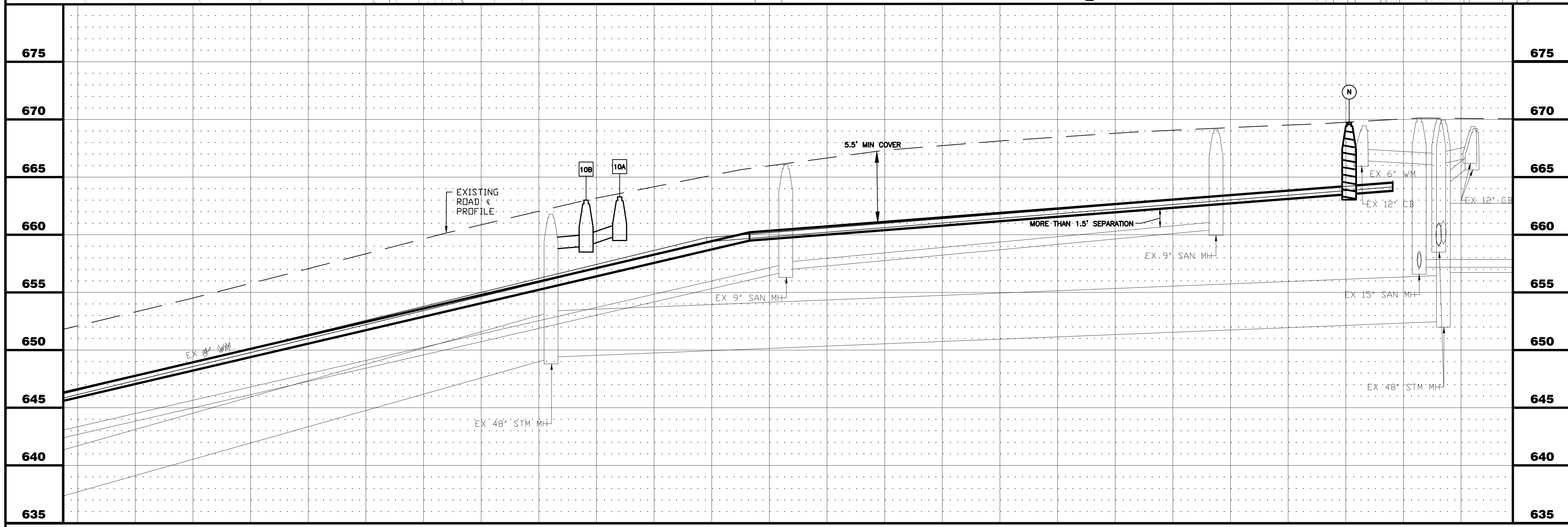
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32+44	33+00	34+00	35+00	36+00	37+00	37+75
CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS:	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL	SHEET NUMBER 9		SHEET TITLE PLAN & PROFILE - BLUFF ST - STA. 32+44 - 37+75
DESIGNED BY: KTM DRAWN BY: AHB		CHECKED BY: KTM APPROVED BY: KTM	SCALE: 1" = 20' DATE: 2026	TOTAL SHEETS 25		

PLOT DATE: 4/27/2026 11:36 AM
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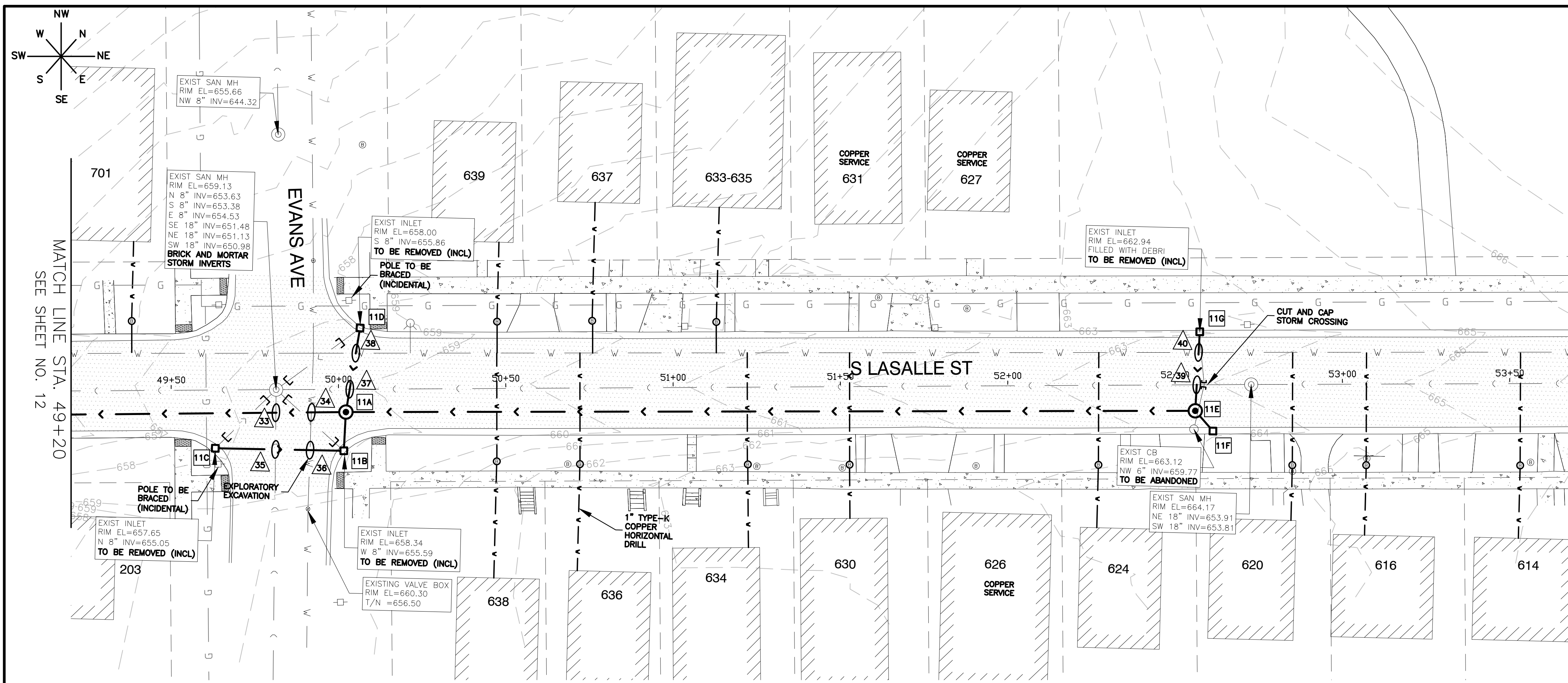
- STORM SEWER STRUCTURES**
- INFILTRATION CATCH BASIN NO. 10A**
STA. 39+68.06
INFL CATCH BASIN W/3' DIA.
W/R - 3015 FR & TY R GR
F/L = 663.28
INV = 660.00 W, 12" RCP
32 LF OF 12" RCP @ 3.13%
 - INFILTRATION CATCH BASIN NO. 10B**
STA. 39+56.42
INFL CATCH BASIN W/3' DIA.
W/R - 3015 FR & TY R GR
F/L = 662.06
INV = 659.00 N & E, 12" RCP
8 LF OF 12" RCP @ 3.13%
- WATER MAIN STRUCTURES**
- FIRE HYDRANT NO. M**
STA. 39+18.45,
WITH 6" AUXILIARY VALVE
GROUND ELEV = 661.25
 - VALVE NO. N**
STA. 042+21.16, 3.38' LT
8" GATE VALVE IN 48" VAULT
RIM = 669.74
- UTILITY CROSSINGS**
- WATER MAIN CROSSING**
B/PR STM = 659.72
T/WM = 658.00
WATER MAIN TO BE ABANDONED
 - WATER MAIN CROSSING**
B/PR STM = 659.64
T/WM = 658.00
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER
 - SANITARY SEWER CROSSING**
B/PR STM = 659.56
T/SAN = 653.96
 - STORM SEWER CROSSING**
B/PR STM = 659.44
T/STM = 654.34



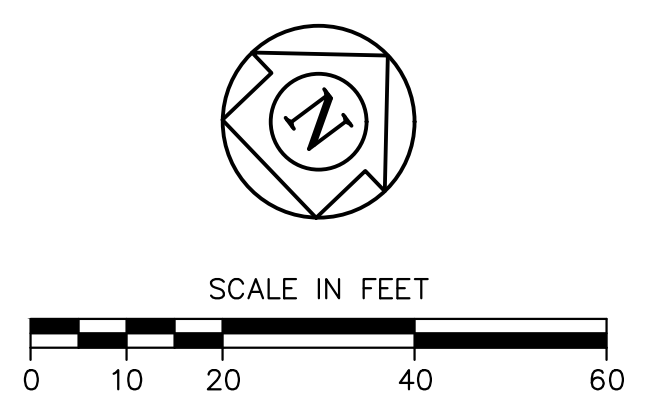
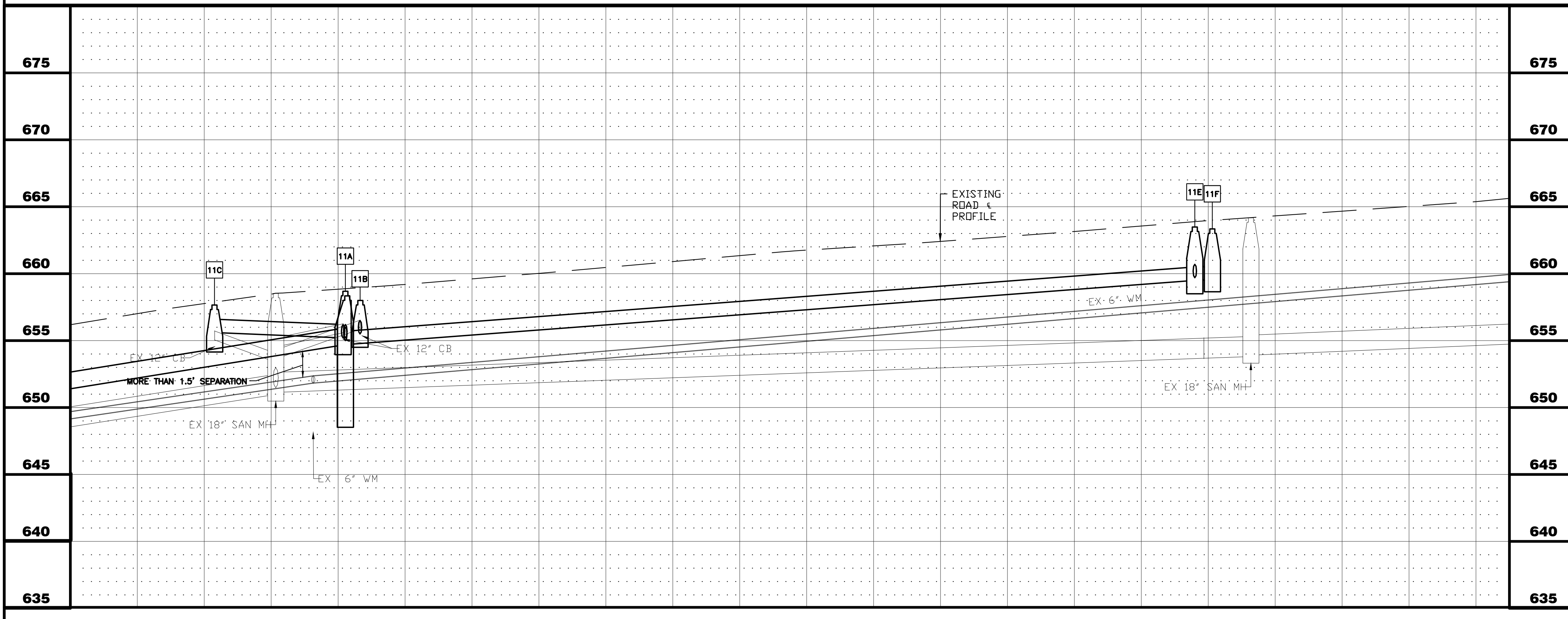
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PLOT DATE: 4/27/2026 11:36 AM
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37+75	38+00	39+00	40+00	41+00	42+00	42+78
CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS: 	DESIGNED BY: KTM CHECKED BY: KTM SCALE: 1" = 20" DRAWN BY: AHB APPROVED BY: KTM DATE: 2026	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL SHEET TITLE PLAN & PROFILE - S BROADWAY - STA. 10+50 TO STA. 11+50	SHEET NUMBER 10 TOTAL SHEETS 25	



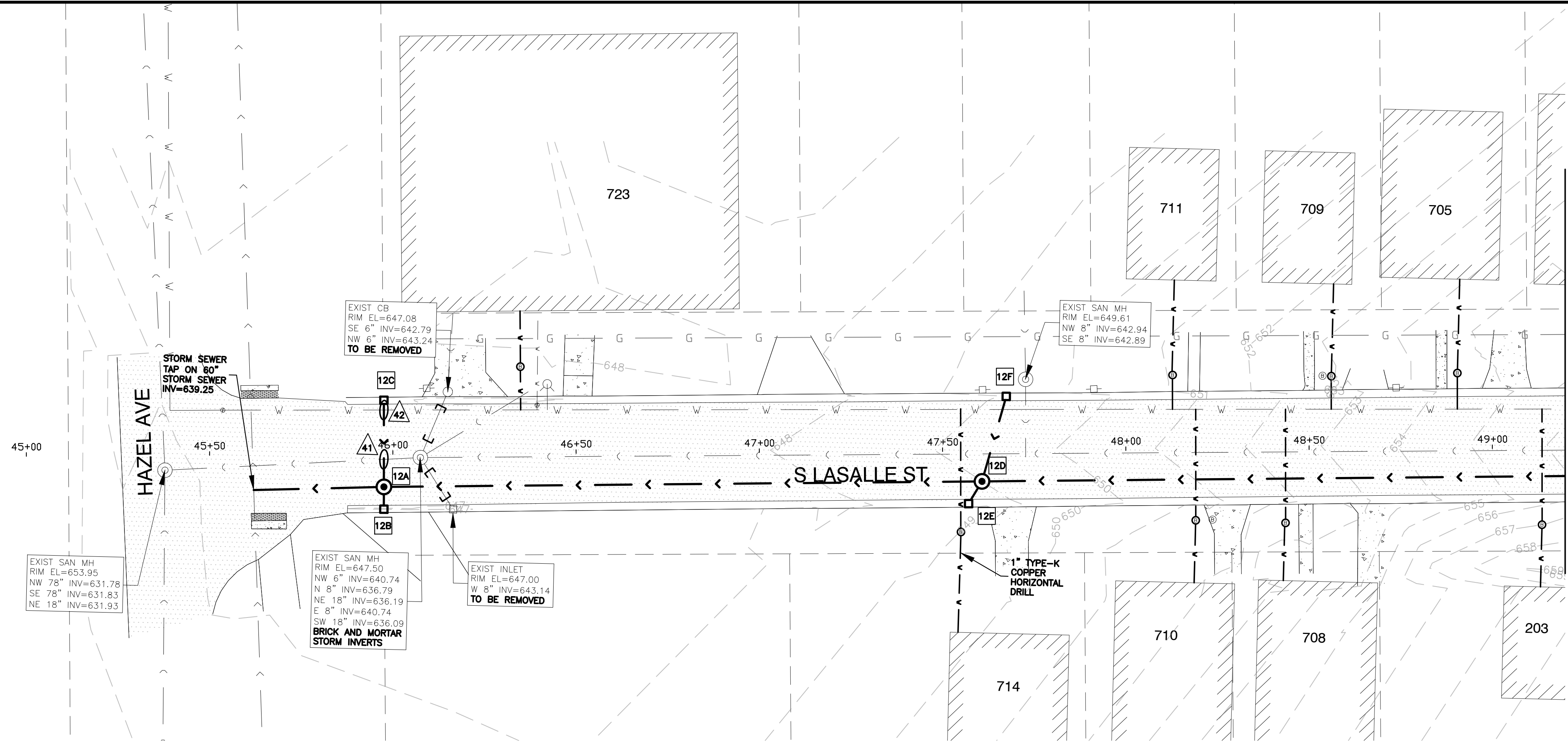
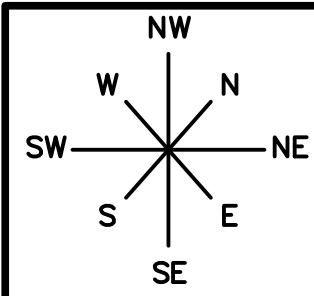
- STORM SEWER STRUCTURES**
- 11A** STORM MANHOLE NO. 11A
STA. 50+02.18
MH W/R - 1713 FR & TY A CL
RIM = 658.69
INV = 654.70 SW, 15" RCP
INV = 654.70 NE, 12" RCP
INV = 655.00 SE, 12" RCP
INV = 655.20 NW, 12" RCP
246 LF OF 15" RCP @ 3.94%
 - 11B** INFILTRATION CATCH BASIN NO. 11B
STA. 50+01+50
REMOVE CATCH BASIN
REPLACE W/3' DIA INFL CATCH BASIN
W/R - 3015 FR & TY R GR
F/L = 658.34
INV = 655.20 NW & SW, 12" RCP
11 LF OF 12" RCP @ 1.82%
 - 11C** INFILTRATION CATCH BASIN NO. 11C
STA. 49+63.10
REMOVE CATCH BASIN
REPLACE W/3' DIA INFL CATCH BASIN
W/R - 3015 FR & TY R GR
F/L = 657.65
INV = 655.60 NE, 12" RCP
38 LF OF 12" RCP @ 1.05%
 - 11D** INFILTRATION CATCH BASIN NO. 11D
STA. 50+06.55
REMOVE CATCH BASIN
REPLACE W/3' DIA INFL CATCH BASIN
W/R - 3015 FR & TY R GR
F/L = 658.00
INV = 655.00 SE, 12" RCP
26 LF OF 12" RCP @ 1.15%
 - 11E** STORM MANHOLE NO. 11E
STA. 52+55.999
STORM MANHOLE TY A. 4' DIA
MH W/R - 1713 FR & TY A CL
RIM = 663.49
INV = 659.50 SW, 12" RCP
INV = 659.70 NW, 12" RCP
INV = 659.90 SE, 12" RCP
254 LF OF 12" RCP @ 1.89%
 - 11F** INFILTRATION CATCH BASIN NO. 11F
STA. 52+61.24
REMOVE CATCH BASIN
REPLACE W/3' DIA INFL CATCH BASIN
W/R - 3015 FR & TY R GR
F/L = 663.34
INV = 660.00 NW, 12" RCP
8 LF OF 12" RCP @ 1.25%
 - 11G** INFILTRATION CATCH BASIN NO. 11G
STA. 52+57.46
REMOVE CATCH BASIN
REPLACE W/3' DIA INFL CATCH BASIN
W/R - 3015 FR & TY R GR
F/L = 662.94
INV = 660.00 SE, 12" RCP
24 LF OF 12" RCP @ 1.25%
- UTILITY CROSSINGS**
- 33** SANITARY SEWER CROSSING
B/PR STM = 653.72
T/SAN = 653.22
 - 34** WATER MAIN CROSSING
B/PR STM = 654.25
T/WM = 652.75
RCP RUBBER GASKET STORM SEWER
 - 35** SANITARY SEWER CROSSING
B/PR STM = 655.25
T/SAN = 653.55
 - 36** WATER MAIN CROSSING
B/PR STM = 655.13
T/WM = 652.65
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER
 - 37** SANITARY SEWER CROSSING
B/PR STM = 655.11
T/SAN = 653.09
 - 38** WATER MAIN CROSSING
B/PR STM = 652.24
T/WM = 652.80
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER
 - 39** SANITARY SEWER CROSSING
B/PR STM = 659.63
T/SAN = 655.41
 - 40** WATER MAIN CROSSING
B/PR STM = 659.76
T/WM = 658.00
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER



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PLOT DATE: 4/27/2026 11:37 AM LAST SAVED BY: HernandezA FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO P&P.DWG

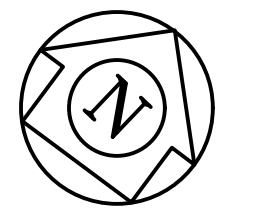
49+20	50+00	51+00	52+00	53+00	53+50		SHEET NUMBER 11							
CITY OF AURORA ENGINEERING DIVISION 77 SOUTH BROADWAY AURORA, ILLINOIS 60505						REVISIONS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY: KTM</td> <td>CHECKED BY: KTM</td> <td>SCALE: 1" = 20'</td> </tr> <tr> <td>DRAWN BY: AHB</td> <td>APPROVED BY: KTM</td> <td>DATE: 2026</td> </tr> </table>	DESIGNED BY: KTM	CHECKED BY: KTM	SCALE: 1" = 20'	DRAWN BY: AHB	APPROVED BY: KTM	DATE: 2026	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL SHEET TITLE PLAN & PROFILE - S BROADWAY - STA. 50+00 TO STA. 54+25	TOTAL SHEETS 25
DESIGNED BY: KTM	CHECKED BY: KTM	SCALE: 1" = 20'												
DRAWN BY: AHB	APPROVED BY: KTM	DATE: 2026												



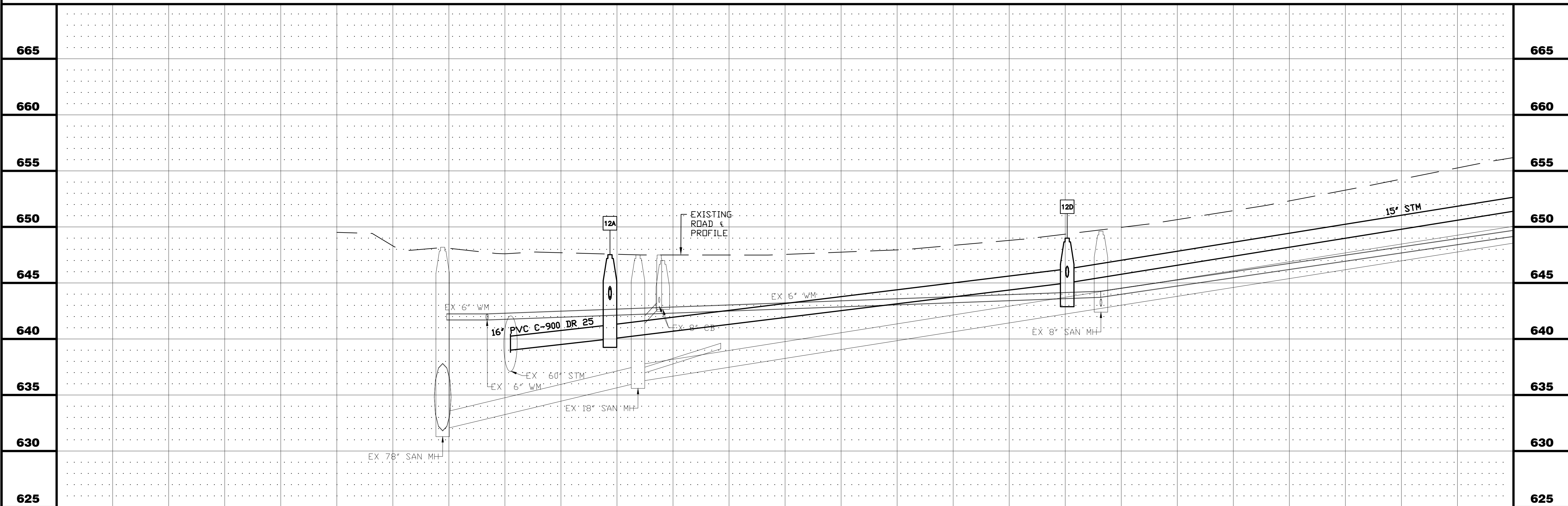
- STORM SEWER STRUCTURES**
- STORM MANHOLE NO. 12A
STA. 45+97.50
MH W/R - 1713 FR & TY A CL
RIM = 647.52
INV = 640.00 NE, 15" RCP
INV = 640.00 SW, 16" PVC
INV = 643.70 SE, 12" RCP
INV = 643.50 NW, 12" RCP
32 LF OF 16" PVC C-900 DR 25 @ 2.34%
 - INFILTRATION CATCH BASIN NO. 12B
STA. 45+97.43
INFL CATCH BASIN W/3' DIA
W/R - 3015 FR & TY R GR
F/L = 646.99
INV = 643.80 NW, 12" RCP
5 LF OF 12" RCP @ 2.00%
 - INLET NO. 12C
STA. 45+97.64
INLET W/2' DIA
W/R - 3015 FR & TY R GR
F/L = 647.25
INV = 643.80 SE, 12" RCP
24 LF OF 12" RCP @ 1.25%
 - STORM MANHOLE NO. 12D
STA. 47+60.70
STORM MANHOLE TY A. 4' DIA
MH W/R - 1713 FR & TY A CL
RIM = 649.00
INV = 645.00 NE & SW, 15" RCP
INV = 645.50 NW & SE, 12" RCP
160 LF OF 15" RCP @ 3.13%
 - INFILTRATION CATCH BASIN NO. 12E
STA. 47+67.45
INFL CATCH BASIN W/3' DIA
W/R - 3015 FR & TY R GR
F/L = 649.07
INV = 645.60 NW, 12" RCP
5 LF OF 12" RCP @ 2.00%
 - INLET NO. 12F
STA. 47+57.02
INLET W/2' DIA
W/R - 3015 FR & TY R GR
F/L = 648.58
INV = 645.80 SE, 12" RCP
24 LF OF 12" RCP @ 1.25%

MATCH LINE STA. 49+20
SEE SHEET NO. 11

- UTILITY CROSSINGS**
- 41 SANITARY SEWER CROSSING
B/PR STM = 643.42
T/SAN = 637.04
 - 42 WATER MAIN CROSSING
B/PR STM = 643.60
T/WM = 641.80
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER

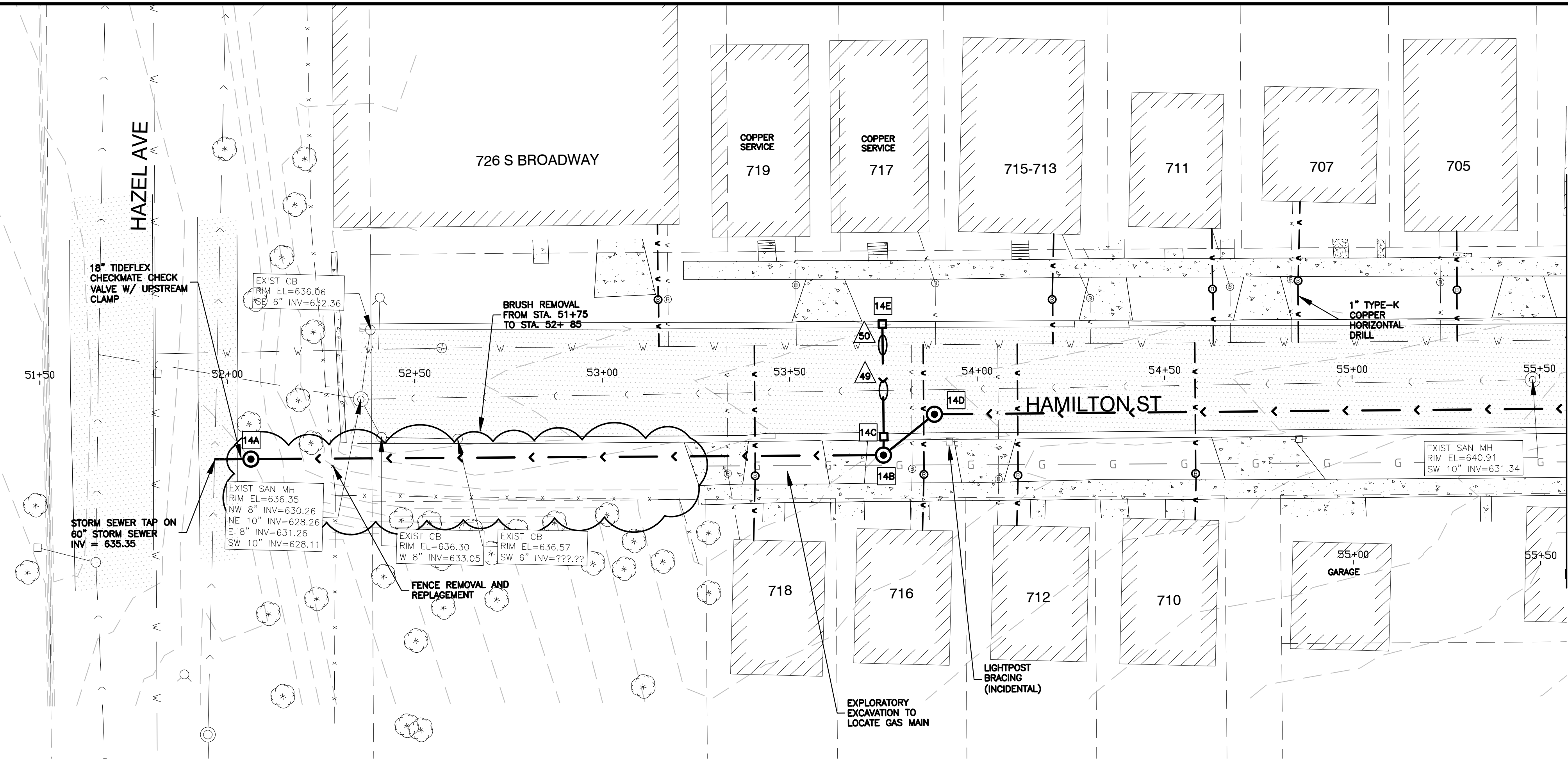
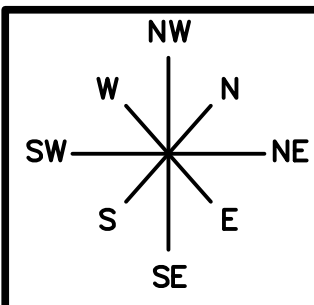


- NOTES:**
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 2. ALL CONFIRMED LEAD WATER SERVICES SHALL BE REPLACED TO THE WATER METER VIA TRENCHLESS METHODS WITH HOMEOWNER APPROVAL.
 3. CONTRACTOR TO LOCATE/COORDINATE WITH CITY FOR NEAREST VALVE FOR TEMPORARY SHUT DOWN (PER CITY DIRECTION)
 4. CONTRACTOR SHALL INSTALL 2" COPPER WHIPS INSIDE VALVE VAULTS AT EACH INTERSECTION (INCIDENTAL).
 5. ANY POWER POLE BRACING TO BE COORDINATED BY CONTRACTOR (INCIDENTAL).
 6. WATER MAIN AND WATER SERVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF STORM SEWER INSTALLATION.



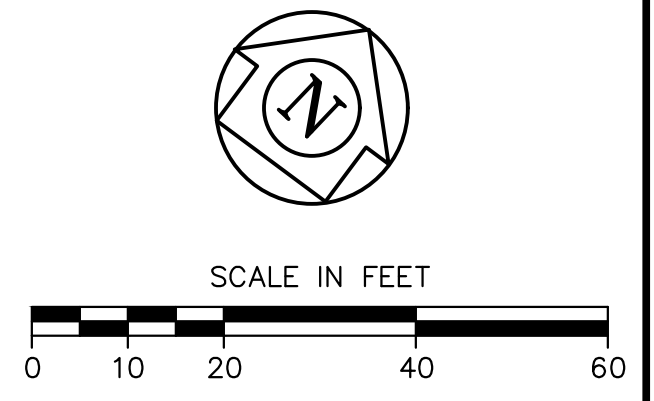
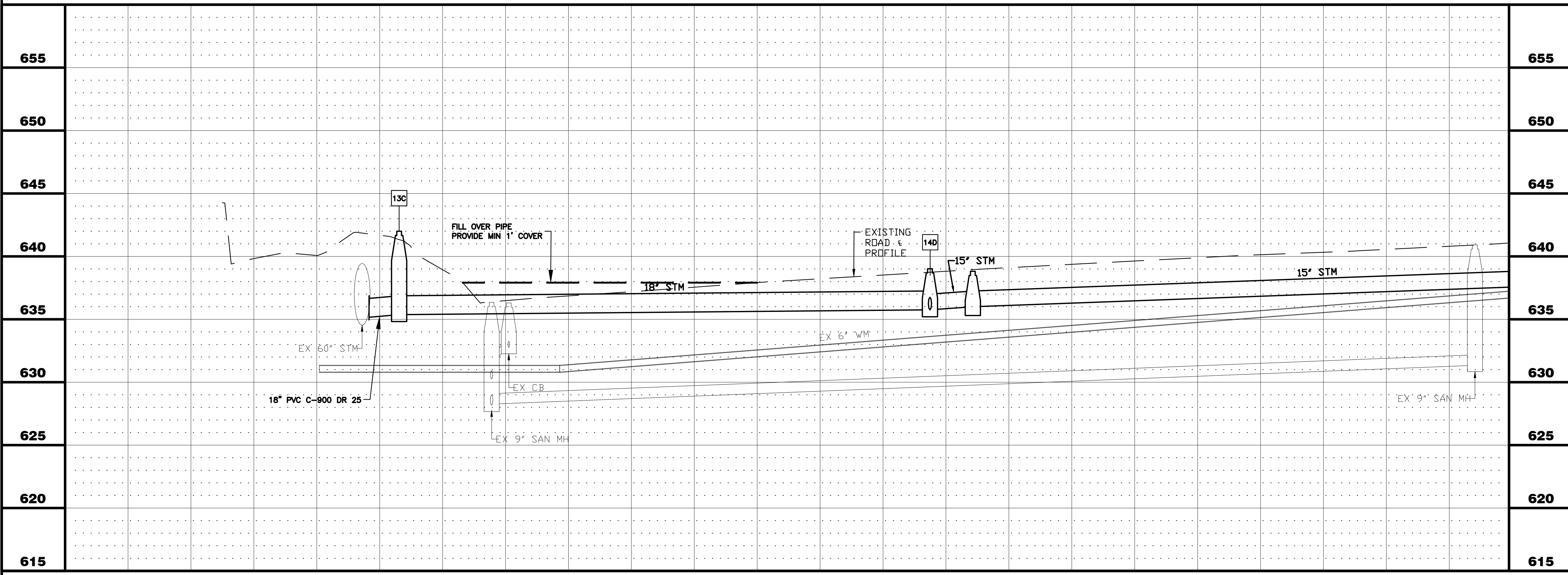
44+00	45+00	46+00	47+00	48+00	49+00	49+20
		CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS:		PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL
DESIGNED BY: KTM DRAWN BY: AHB		CHECKED BY: KTM APPROVED BY: KTM		SCALE: 1" = 20' DATE: 2026		SHEET NUMBER 12 TOTAL SHEETS 25
SHEET TITLE PLAN & PROFILE - S BROADWAY - STA. 50+00 TO STA. 54+25						

PLOT DATE: 4/27/2026 11:37 AM LAST SAVED BY: HernandezA FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO P&P.DWG



MATCH LINE STA. 55+56
SEE SHEET NO. 13

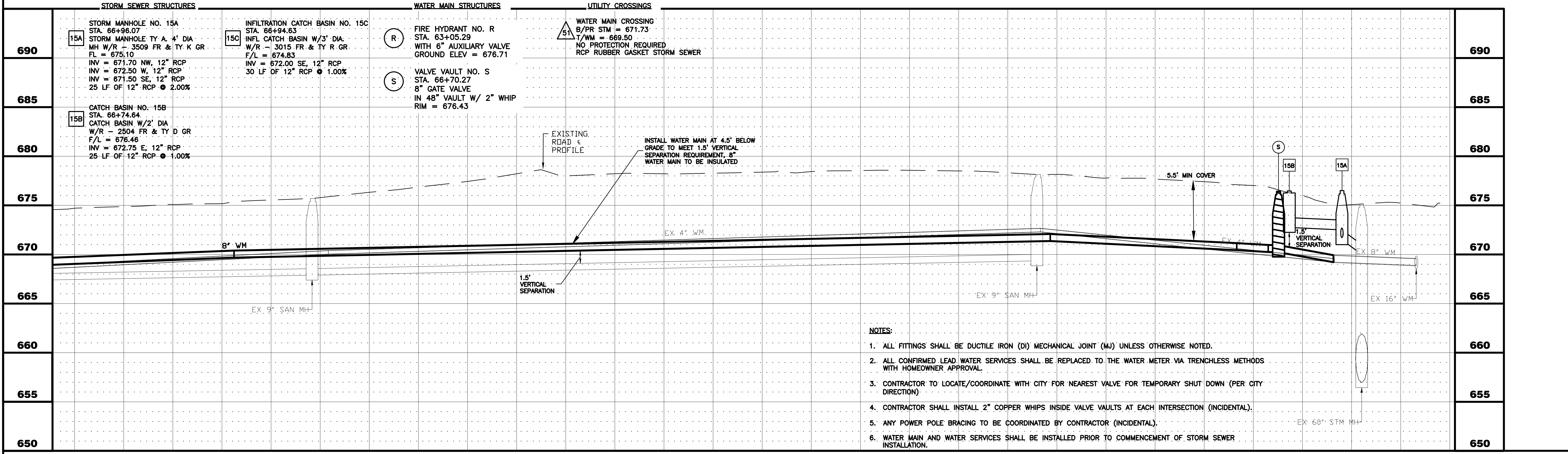
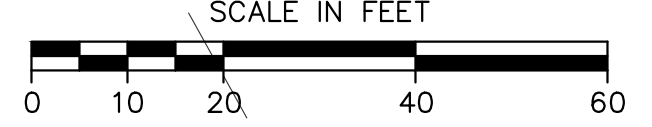
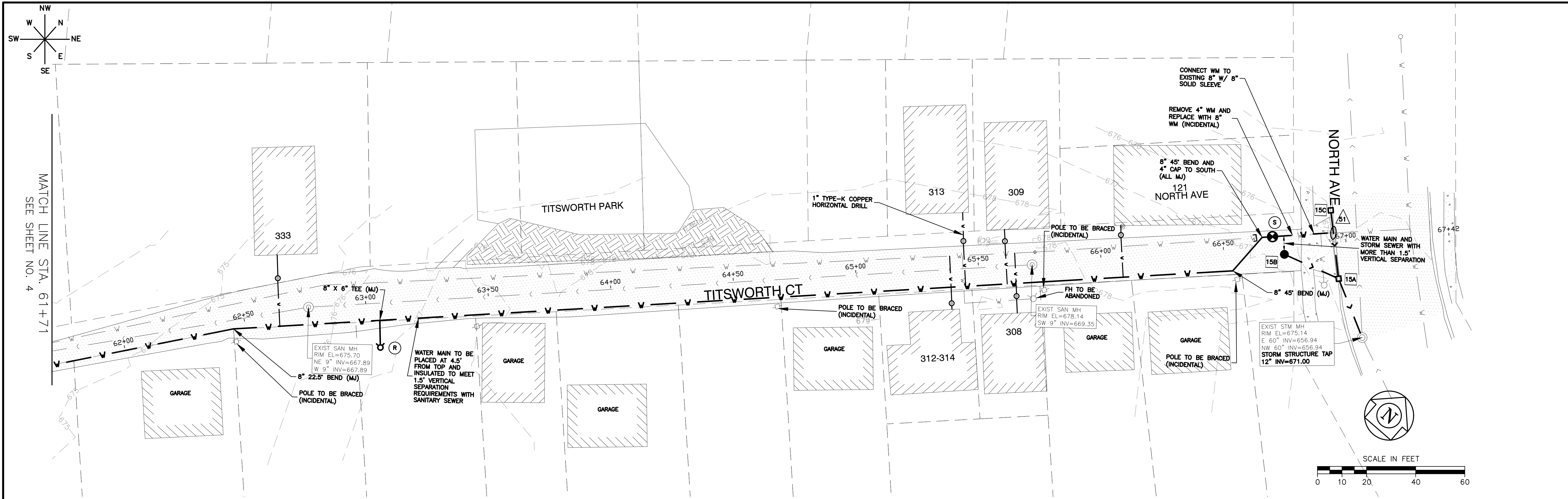
- STORM SEWER STRUCTURES**
- 14A STORM MANHOLE NO. 14A
STA. 52+06.19
MH W/R - 1713 FR & TY A CL
RIM = 642.00
INV = 635.37 NE, 18" RCP
INV = 635.37 SW, 18" PVC
8 LF OF 18" PCV C-900 DR 25 @ 0.25%
 - 14B STORM MANHOLE NO. 14B
STA. 53+74.92
MH W/R - 1689 FR & TY A CL
RIM = 639.01
INV = 635.75 SW, 18" RCP
INV = 635.75 N, 12" RCP
INV = 635.75 S, 15" RCP
172 LF OF 18" RCP @ 0.22%
 - 14C INFILTRATION CATCH BASIN NO. 14C
STA. 53+75.02
INFIL CATCH BASIN W/3' DIA
W/R - 3015 FR & TY R GR
F/L = 638.09
INV = 635.80 NW & SE, 12" RCP
6 LF OF 12" RCP @ 0.83%
 - 14D STORM MANHOLE NO. 14D
STA. 53+88.55
MH W/R - 1689 FR & TY A CL
RIM = 638.81
INV = 636.00 S & NE, 15" RCP
20 LF OF 15" RCP @ 1.25%
 - 14E INFILTRATION CATCH BASIN NO. 14E
STA. 53+74.79
INFIL CATCH BASIN W/3' DIA
W/R - 3015 FR & TY R GR
F/L = 638.09
INV = 636.00 SE, 12" RCP
30 LF OF 12" RCP @ 0.67%
- UTILITY CROSSINGS**
- 49 SANITARY SEWER CROSSING
B/PR STM = 635.70
T/SAN = 630.68
 - 50 WATER MAIN CROSSING
B/PR STM = 635.80
T/WM = 633.20
NO PROTECTION REQUIRED
RCP RUBBER GASKET STORM SEWER



- NOTES:**
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51+00	52+00	53+00	54+00	55+00	55+59
CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS:	DESIGNED BY: KTM CHECKED BY: KTM SCALE: 1" = 20" DRAWN BY: AHB APPROVED BY: KTM DATE: 2026	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL SHEET TITLE PLAN & PROFILE - S BROADWAY - STA. 51+00 TO STA. 55+59	SHEET NUMBER 14 TOTAL SHEETS 25

PLOT DATE: 4/27/2026 11:37 AM LAST SAVED BY: HernandezA FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO P&P.DWG

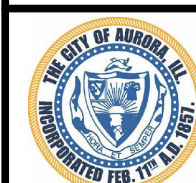
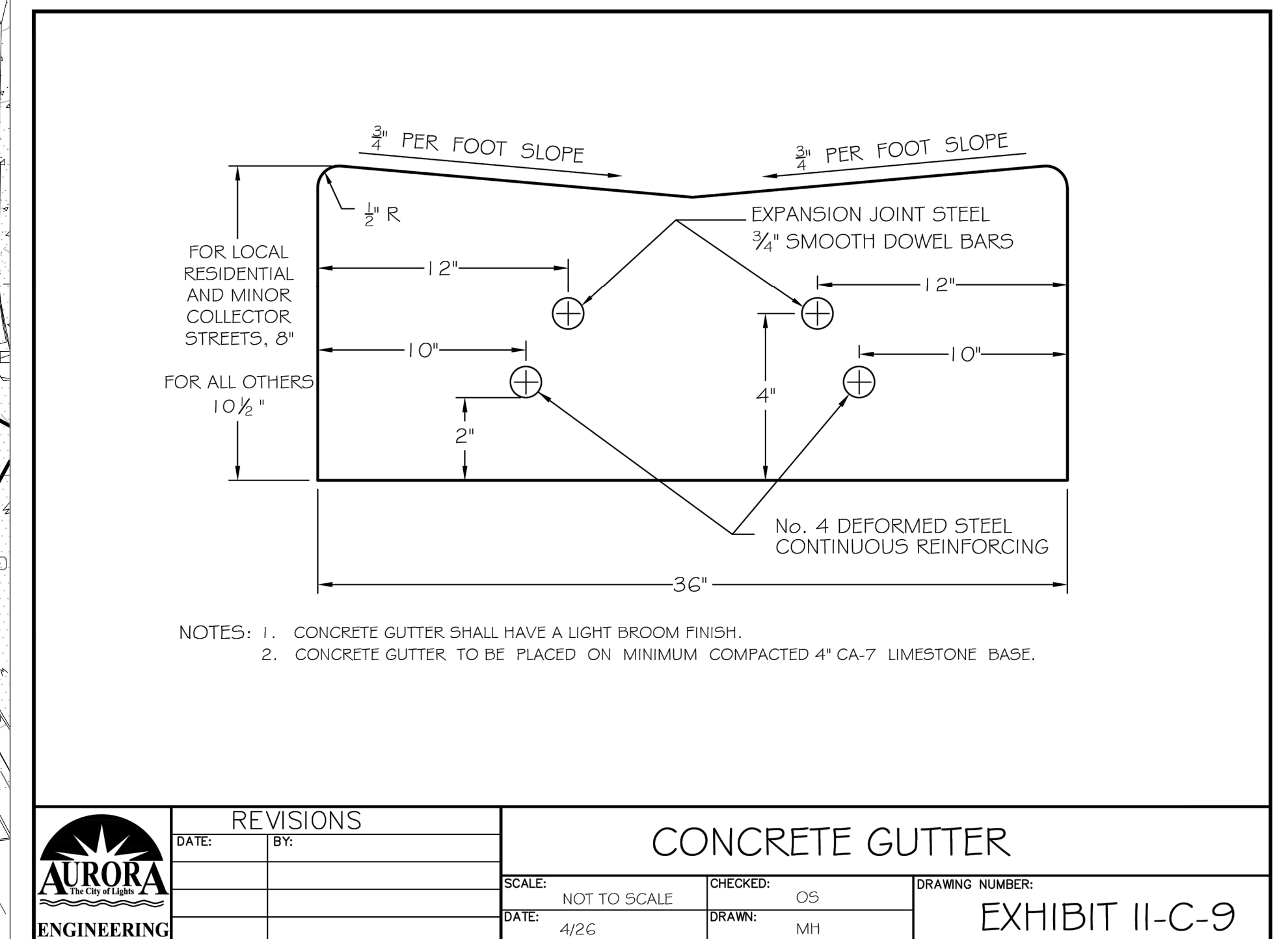
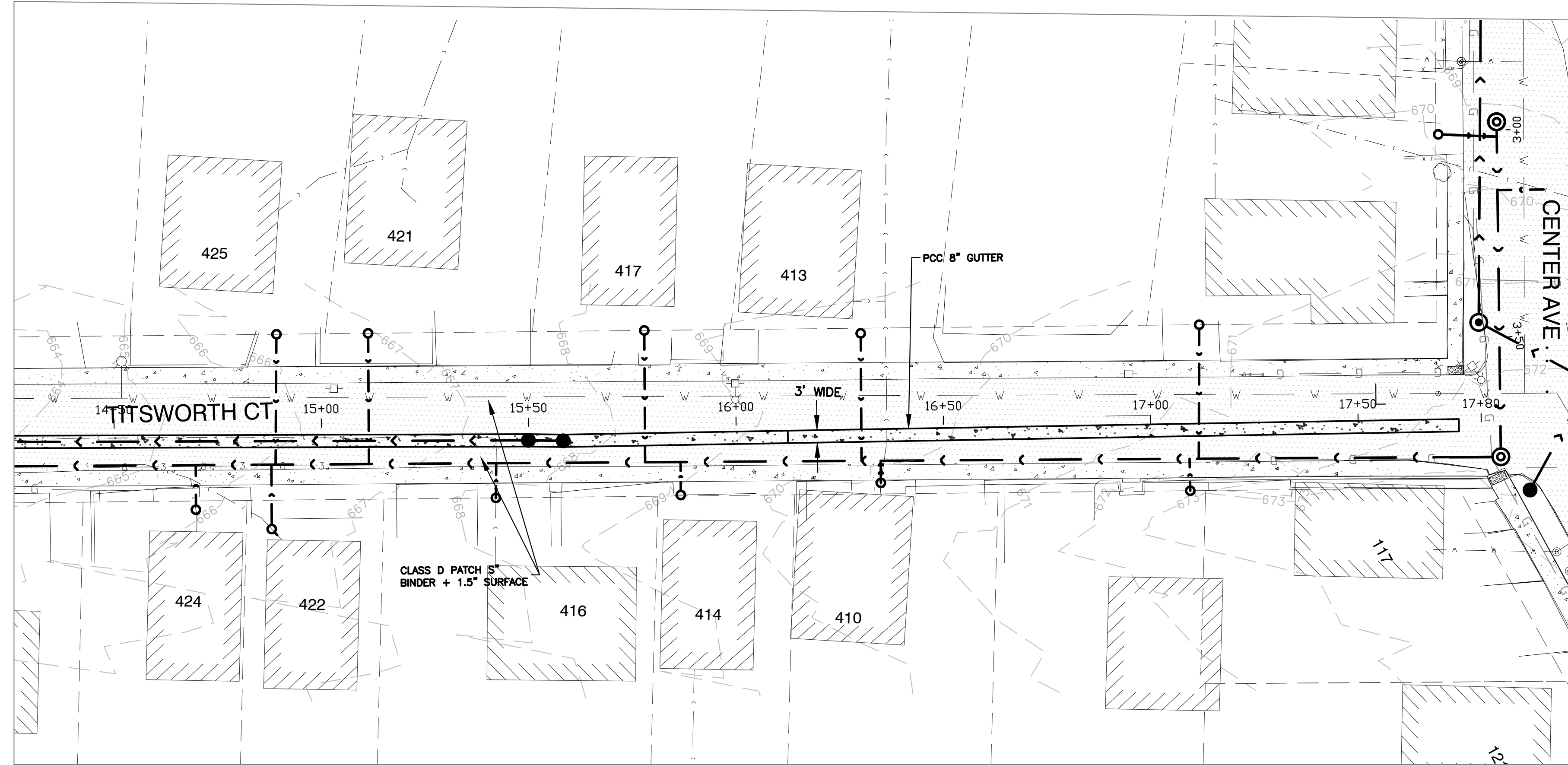
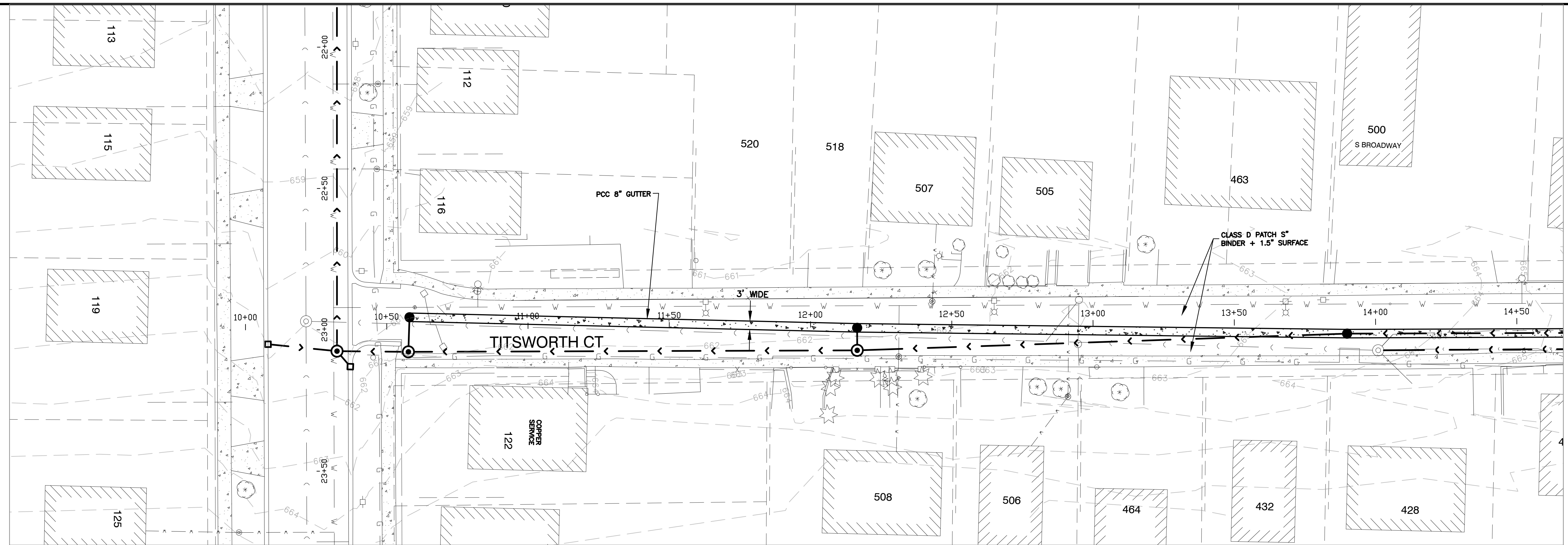


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61+71	62+00	63+00	64+00	65+00	66+00	67+00	67+42
CITY OF AURORA ENGINEERING DIVISION 2185 LIBERTY ST AURORA, ILLINOIS 60505		REVISIONS:	DESIGNED BY: KTM CHECKED BY: KTM SCALE: 1" = 20' DRAWN BY: AHB APPROVED BY: KTM DATE: 2026	PROJECT CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL SHEET TITLE PLAN & PROFILE - TITSWORTH CT - STA. 11+40 - 16+70	SHEET NUMBER 15 TOTAL SHEETS 25		

PLOT DATE: 4/27/2026 11:37 AM
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 LAST SAVED BY: HernandezA



CITY OF AURORA
 ENGINEERING DIVISION
 2185 LIBERTY ST
 AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY:	KTM	CHECKED BY:	KTM	SCALE:	1" = 20'
DRAWN BY:	AHB	APPROVED BY:	KTM	DATE:	2026

PROJECT

CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL

SHEET NUMBER

16

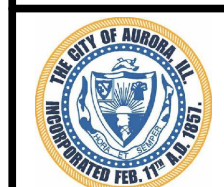
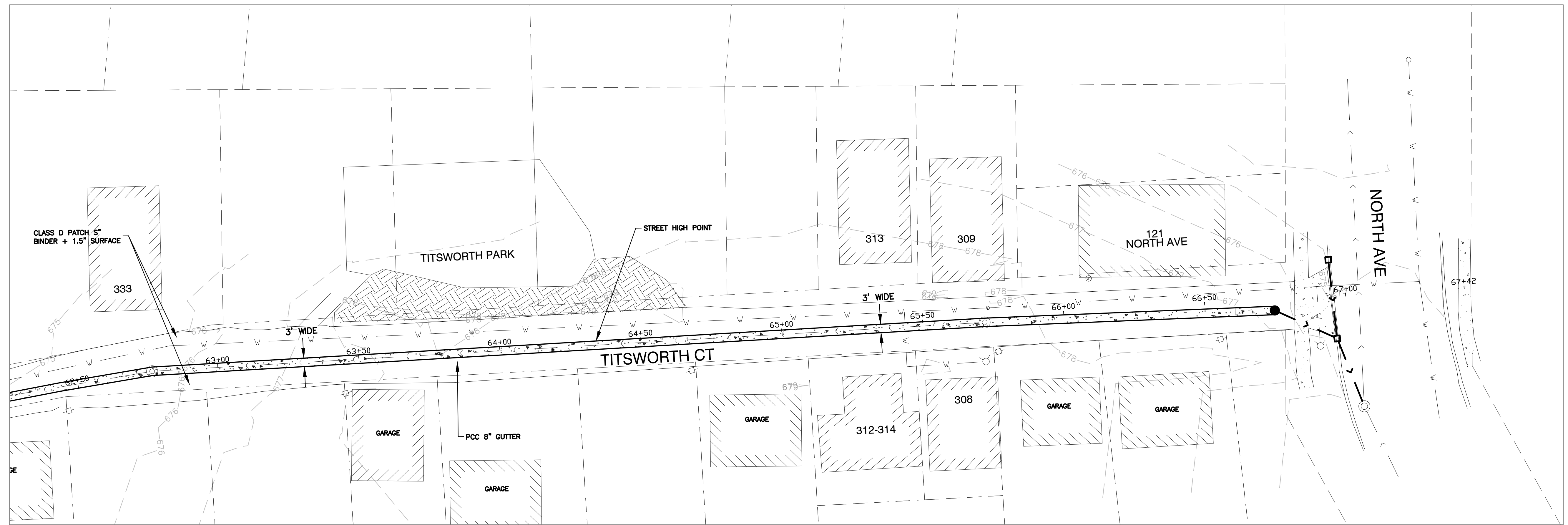
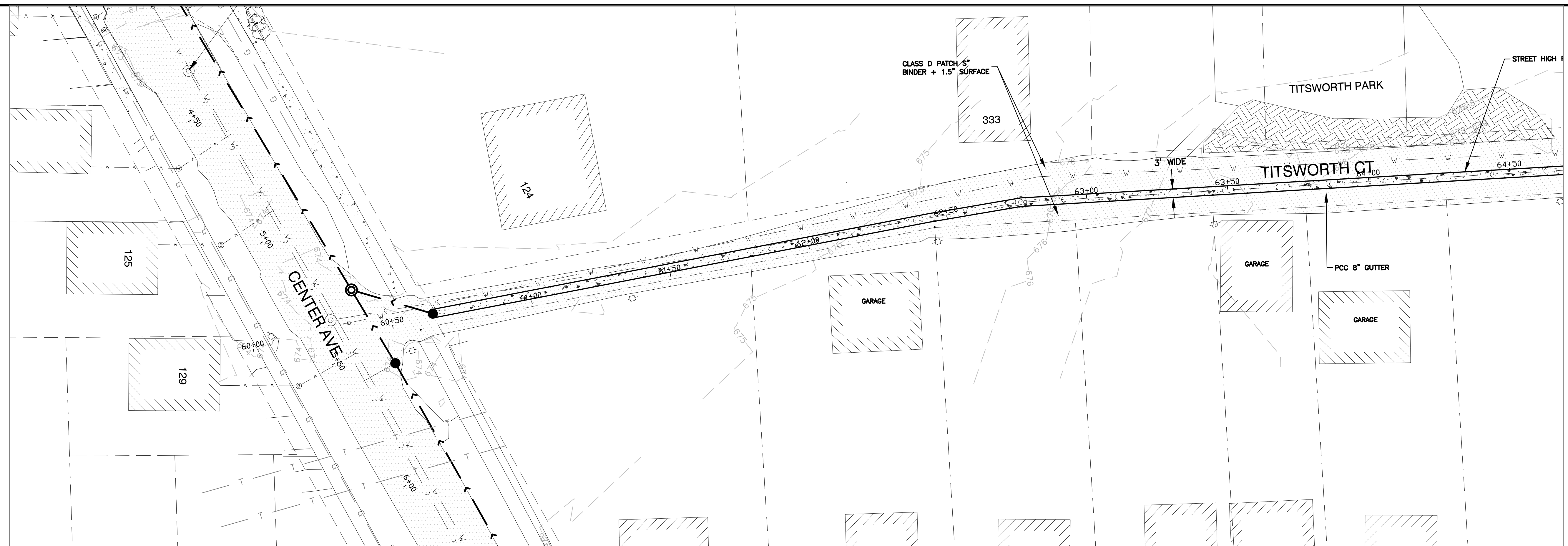
SHEET TITLE

PLAN & PROFILE - GUTTER DETAIL TITSWORTH CT

TOTAL SHEETS

25

PLOT DATE: 4/27/2026 11:38 AM
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 LAST SAVED BY: HernandezA



CITY OF AURORA
 ENGINEERING DIVISION
 2185 LIBERTY ST
 AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY:	KTM	CHECKED BY:	KTM	SCALE:	1" = 20'
DRAWN BY:	AHB	APPROVED BY:	KTM	DATE:	2026

PROJECT

CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL

SHEET NUMBER

17

SHEET TITLE

PLAN & PROFILE - GUTTER DETAIL TITSWORTH CT

TOTAL SHEETS

25

CAST FRAME

NOTES:
 1. DUCTILE IRON CASTINGS SHALL BE GRADE 60-40-18 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
 2. ALL LIDS AND COVERS SHALL BE ANCHORED.
 3. THE MANHOLE TOPS SHALL HAVE PROTECTIVE LETTERS.
 4. LID SHALL BE CAST WITH THE RESERVATION 'CITY OF AURORA'.
 5. LID SHALL HAVE A CONCEALED POK WIRE.

ALL JOINTS BETWEEN PRECAST ELEMENTS, MANHOLE FRAMES AND LIDS ON ALL UNDERGROUND STRUCTURES SHALL BE SET JOINT SEALANTS WITH ONE OF THE FOLLOWING BUTYL RUBBER JOINT SEALANTS AS MANUFACTURED BY CONCRETE PRODUCTS SUPPLY CO. INC. 538 53RD STREET, CHICAGO, IL 60632 OR EQUAL AS APPROVED BY THE CITY ENGINEER, AND ALL JOINTS TO BE TUCKPOINTED WITH ANTI-HYDRAULIC CEMENT.

CAST CLOSED LID

VALVE IN VAULT

NOTES:
 1. VALVE VAULTS TO BE PRECAST REINFORCED CONCRETE UNLESS OTHERWISE APPROVED.
 2. PRO-RING AND ADHESIVE SEALANT (BY CRETEX) OR APPROVED EQUAL ADJUSTMENT RINGS SHALL BE USED FOR ALL ADJUSTMENTS UP TO A MAXIMUM ADJUSTMENT OF TEN INCHES (10").

REVISIONS	DATE: 02/25/20	BY: DCooney
02/04/22	CAmin	
SCALE: NOT TO SCALE		
DATE: 1/04		

REVISIONS	DATE: 02/25/20	BY: DCooney
02/04/22	CAmin	
SCALE: NOT TO SCALE		
DATE: 1/04		

TYPICAL VALVE & BOX

NOTES:
 1. ALL NUTS, BOLTS, AND THREADED RODS SHALL BE STAINLESS STEEL (SEE THE STANDARD SPECIFICATIONS FOR IMPROVEMENTS FOR STEEL GRADE).

REVISIONS	DATE: 01/20/11	BY: jps
SCALE: NOT TO SCALE		
DATE: 1/04		

PRESSURE CONNECTION

NOTES:
 1. VALVE VAULT BARREL SECTION SHALL CONFORM TO ASTM C - 478.
 2. REFER TO THE STANDARD SPECIFICATIONS FOR IMPROVEMENTS FOR VALVE, SLEEVE, AND STEPS TYPE AND MANUFACTURES.
 3. REFER TO EXHIBITS III-A-1 AND III-C-1, TRENCH BACKFILL DETAILS, FOR BACKFILL AROUND VALVE VAULT STRUCTURE.

REVISIONS	DATE: 04/20	BY: DCooney
02/22	CAmin	
SCALE: NOT TO SCALE		
DATE: 1/05		

HYDRANT INSTALLATION

NOTES:
 1. VALVE VAULTS TO BE PRECAST REINFORCED CONCRETE UNLESS OTHERWISE APPROVED.
 2. PRO-RING AND ADHESIVE SEALANT (BY CRETEX) OR APPROVED EQUAL ADJUSTMENT RINGS SHALL BE USED FOR ALL ADJUSTMENTS UP TO A MAXIMUM ADJUSTMENT OF TEN INCHES (10").

REVISIONS	DATE: 02-25-20	BY: DCooney
02-04-22	CAmin	
SCALE: NOT TO SCALE		
DATE: 6/02		

SEWER TRENCH DETAIL PAVED & UNPAVED

NOTES:
 1. RIGID PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO THE SPRING LINE. FLEXIBLE PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO 1' OVER T.O.P.
 2. CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.
 3. CONTROLLED LOW-STRENGTH MATERIAL (CLSM) I.D.O.T. APPROVED MIX WHEN REQUIRED BY CITY ENGINEER.
 4. ALL CLSM INSTALLATIONS REQUIRE CA-7 PLACEMENT TO 1' OVER T.O.P.
 5. MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05 STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS - CURRENT EDITION

REVISIONS	DATE: 04-10	BY: DCooney
SCALE: NOT TO SCALE		
DATE: 1/04		

TYPICAL WATER SERVICE TAP AND BOX

NOTES:
 1. WHEN WATERMAIN IS LOCATED WITHIN AN EASEMENT RATHER THAN THE PUBLIC RIGHT-OF-WAY, THE BUFFALO-BOXES MUST ALSO BE LOCATED WITHIN THE EASEMENT AND WITHIN 2' OF THE WATERMAIN.

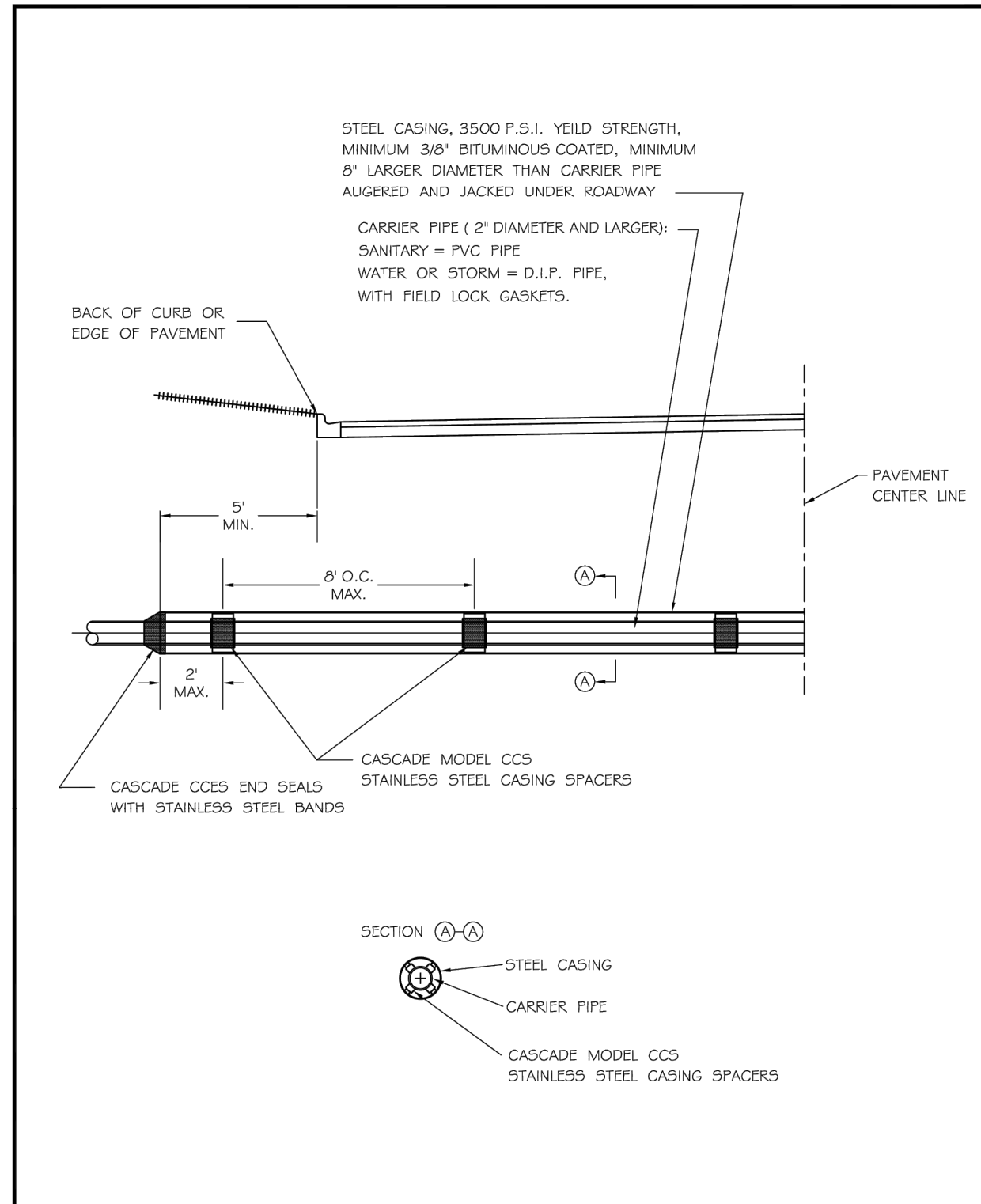
REVISIONS	DATE: 02-26-20	BY: DCooney
07-07-22	CAmin	
SCALE: NTS		
DATE: 06/02		

OFFSET HYDRANT DETAIL

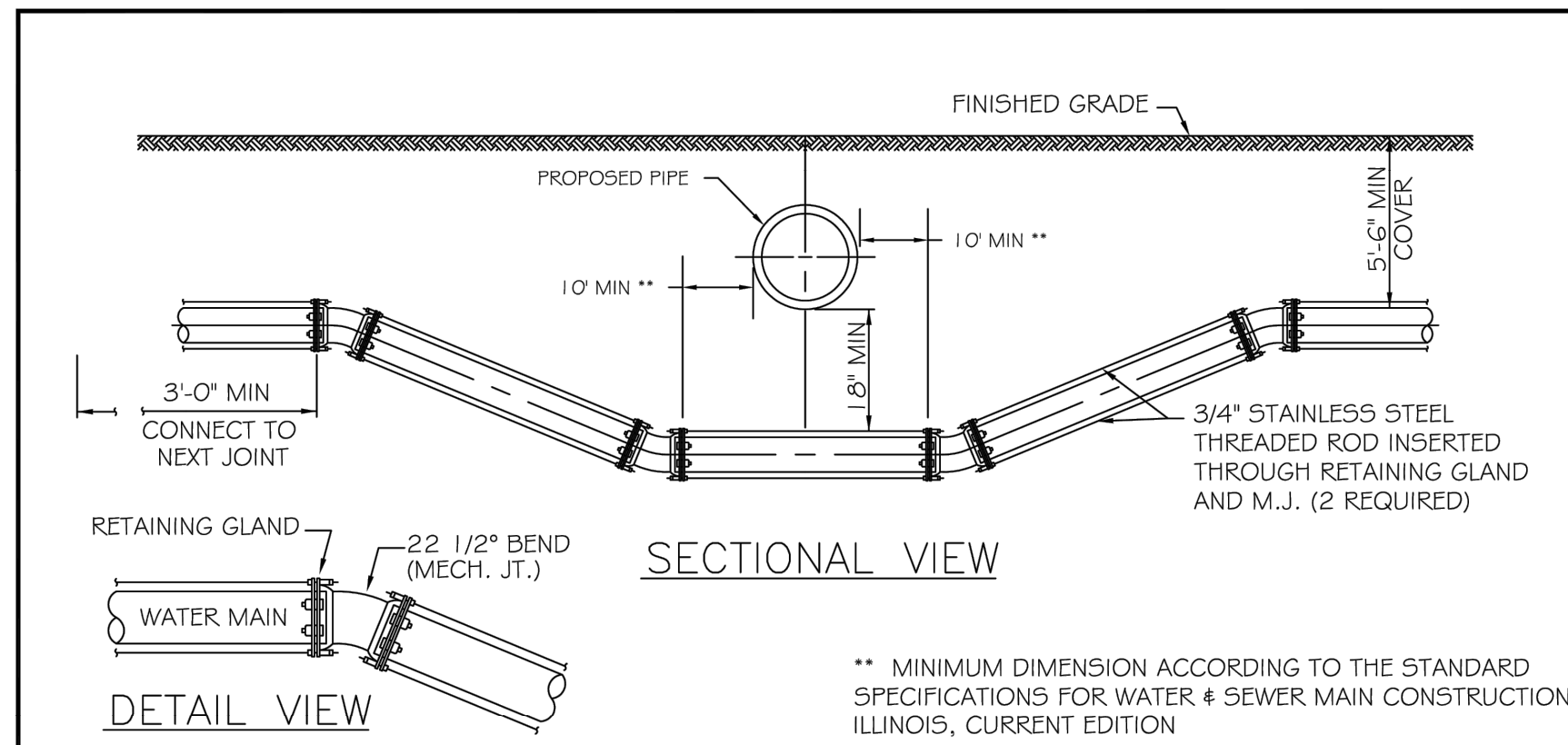
NOTES:
 1. WHEN WATERMAIN IS LOCATED WITHIN AN EASEMENT RATHER THAN THE PUBLIC RIGHT-OF-WAY, THE BUFFALO-BOXES MUST ALSO BE LOCATED WITHIN THE EASEMENT AND WITHIN 2' OF THE WATERMAIN.

REVISIONS	DATE: 3/08	BY: DG
SCALE: NOT TO SCALE		
DATE: 3/08		

PLOT DATE: 4/27/2026 11:38 AM FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO DETAILS.DWG LAST SAVED BY: HernandezA



REVISIONS		CASING PIPE	
DATE	BY	SCALE	DRAWING NUMBER
		NOT TO SCALE	DF
10/2007	jhs		EXHIBIT III-C-13



NOTES:

- For sizes larger than 16", special design will be required.
- In lieu of installing stainless steel rods, the mechanical joints can be restrained with the MegaLug Series 1100 as manufactured by EBBA Iron Inc, or approved equal. Also, the bell and spigot joints shall be restrained on either side of the mechanical joints by EBBA Iron 1700 series restraint or approved equal and the restraint distance shall be in accordance with Exhibits III-C-9 and III-C-10.

REVISIONS		WATER MAIN LOWERING DETAIL	
DATE	BY	SCALE	DRAWING NUMBER
04/11/04	DGoewey	NOT TO SCALE	DF
1/04	SAZ		EXHIBIT III-C-8

Minimum Restraint Length (ft) on both sides of the Fitting

Fitting Type/Nominal Size	6"	8"	12"	16"
11 1/4° Bend	2	3	4	6
22 1/2° Bend	5	6	9	11
45° Bend	10	13	18	23
90° Bend	23	30	43	56
Dead End	31	40	57	74
Top Side of a Vertical Offset ¹	19	25	35	46
Tee Run x Branch ²	6" BY	24		
Tee Run x Branch ²	8" BY	22	34	
Tee Run x Branch ²	12" BY	18	31	51
Tee Run x Branch ²	16" BY	14	28	48
Reducer ³	8" BY	17		
Reducer ³	12" BY	42	30	
Reducer ³	16" BY	62	54	31

¹ All joints within the lowered section of the watermain shall be restrained or shall be solid pipe. The above distances reflect the required restraint distance on the normally elevated watermain either side of the 45° fitting of the vertical offset (or lowering).

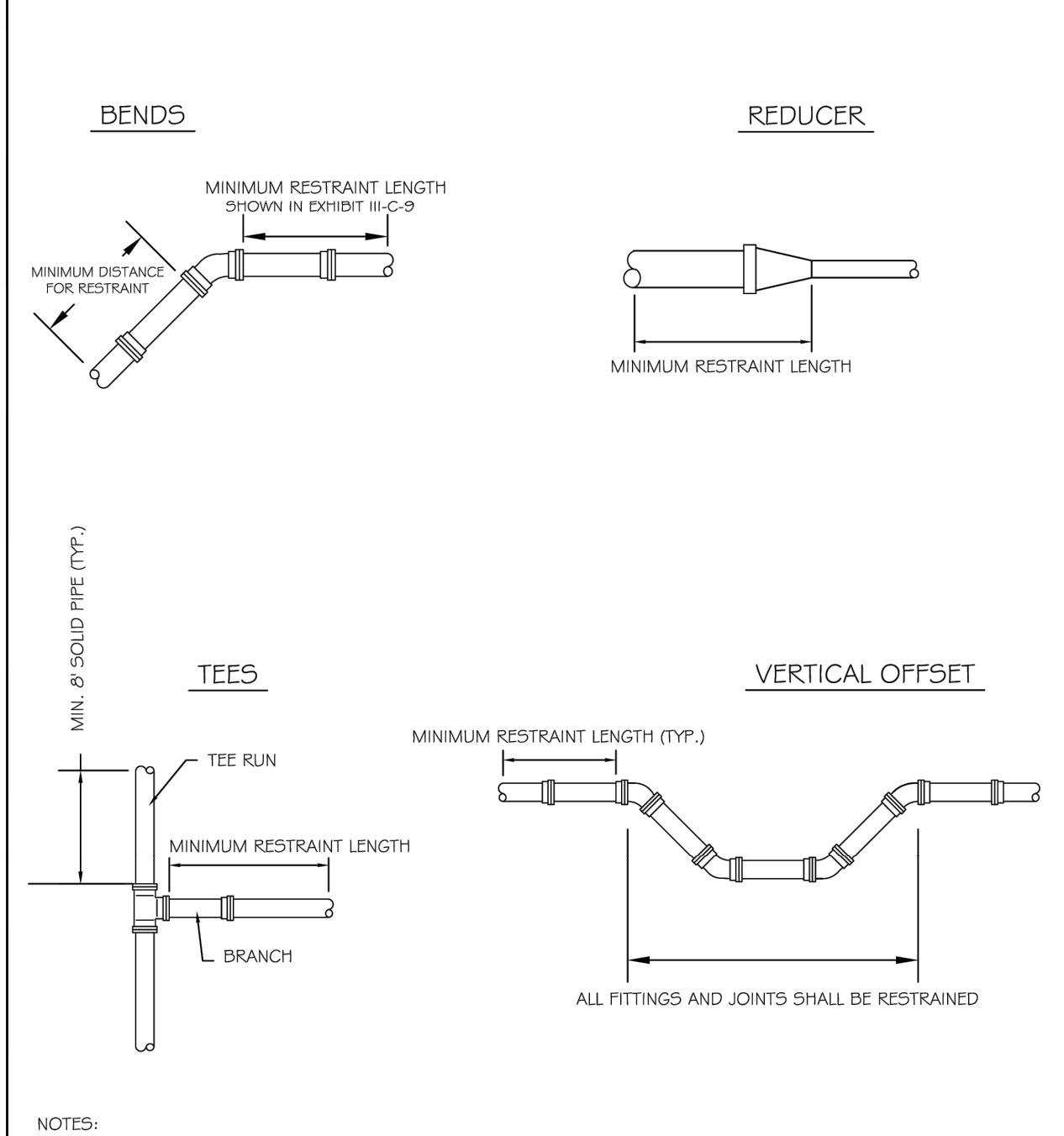
² Minimum of 8 ft of solid pipe is required on both sides of the fitting on the run side. Distance indicates the length of restraint on the branch side or the side perpendicular to the tee run watermain.

³ Indicates the distance from the larger end of the reducer.

Notes: 1) All nuts and bolts shall be stainless steel.
2) The entire restraint system from the fitting to the minimum restraint distance must be inspected by The City of Aurora or it's representative prior to backfilling.

Revisions		Watermain Restraint Length Table	
Date	By	Scale	Checked
		None	PJH
		2/04	DF

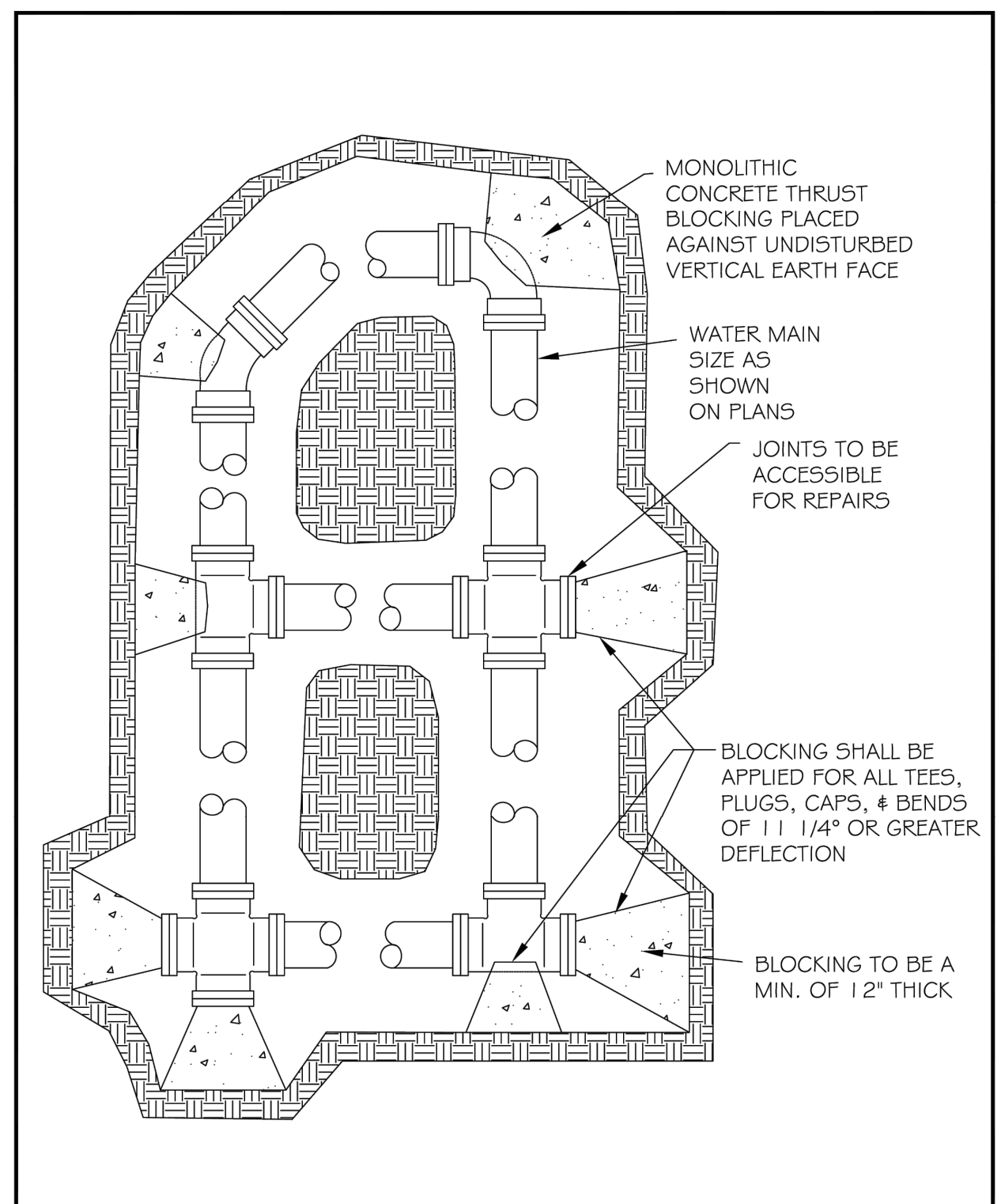
EXHIBIT III-C-9



NOTES:

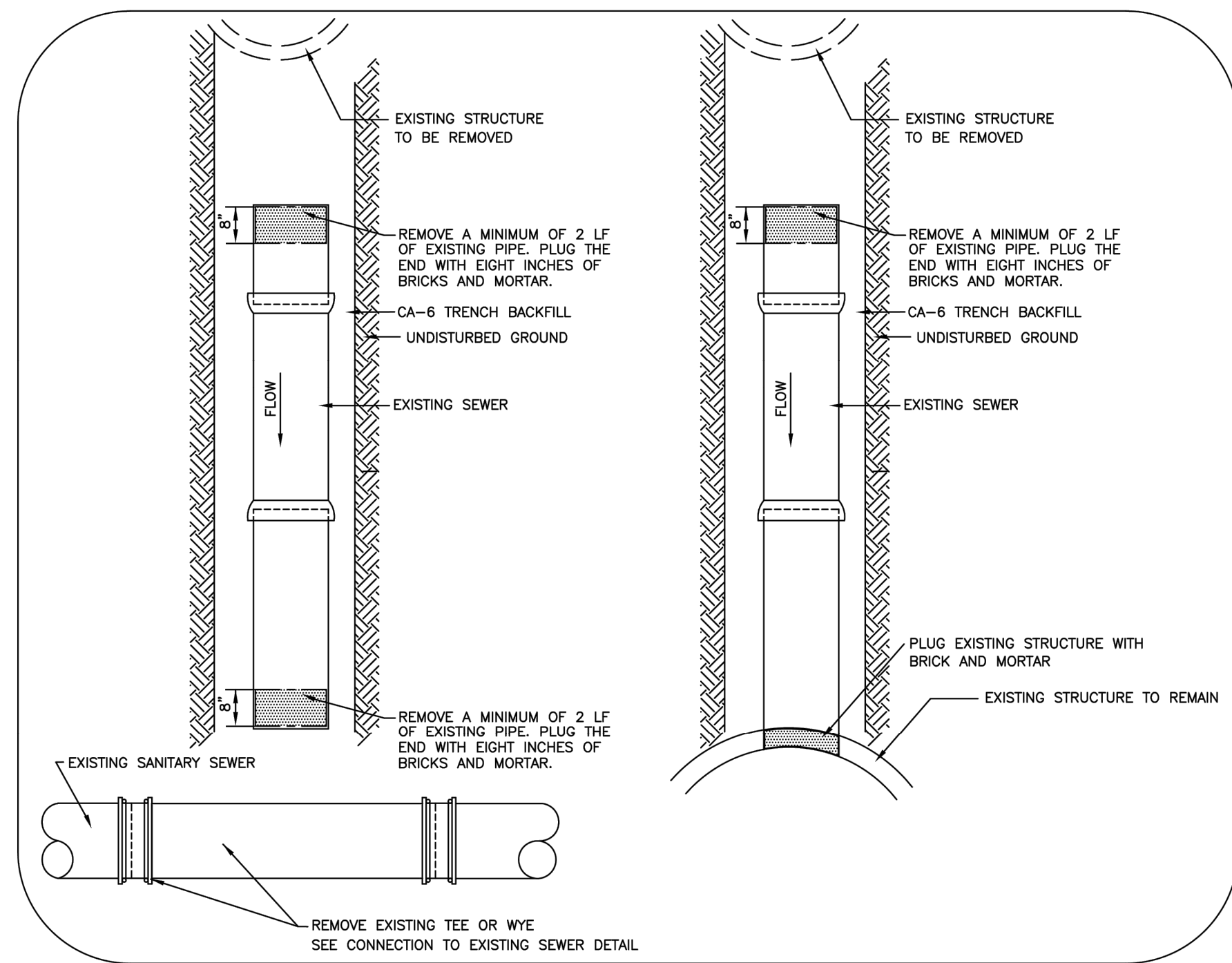
- THE EXACT LENGTHS FOR RESTRAINT ARE SHOWN IN EXHIBIT III-C-9

REVISIONS		WATER MAIN RESTRAINT DETAIL	
DATE	BY	SCALE	DRAWING NUMBER
		NOT TO SCALE	DF
1/04	NM		EXHIBIT III-C-10

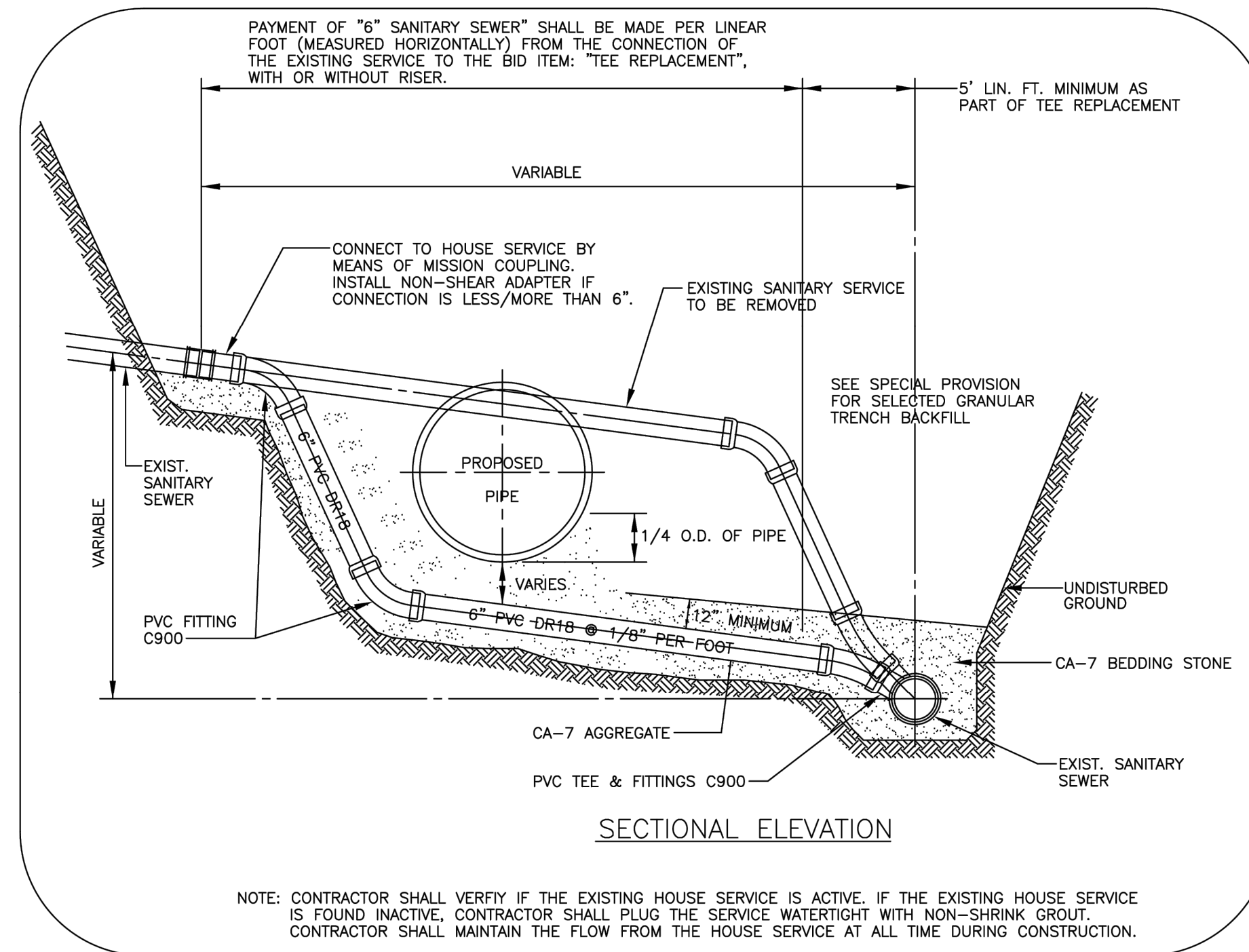


REVISIONS		THRUST BLOCKING	
DATE	BY	SCALE	DRAWING NUMBER
01/2011	jhs	NOT TO SCALE	DF
1/04	NM		EXHIBIT III-C-3

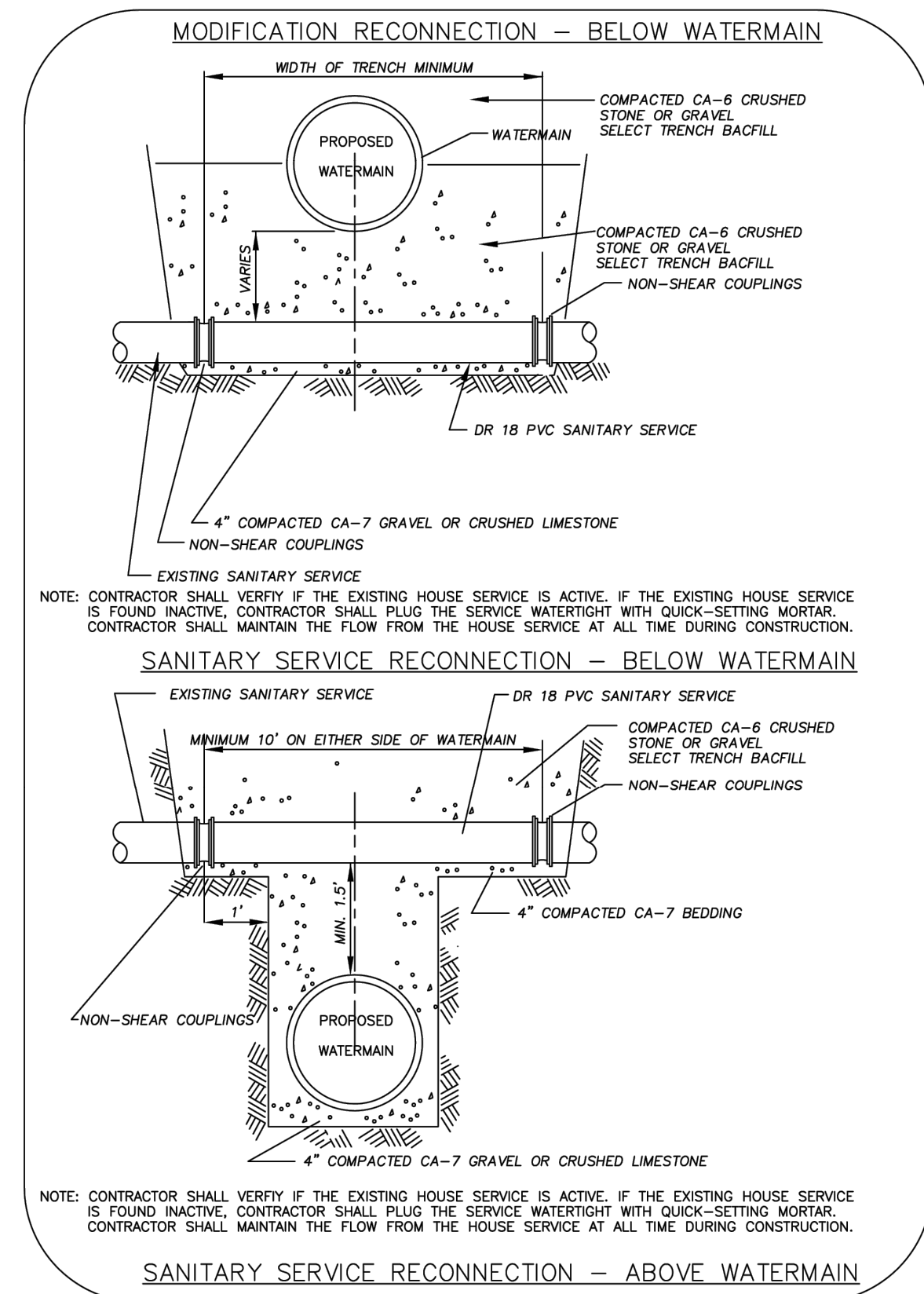
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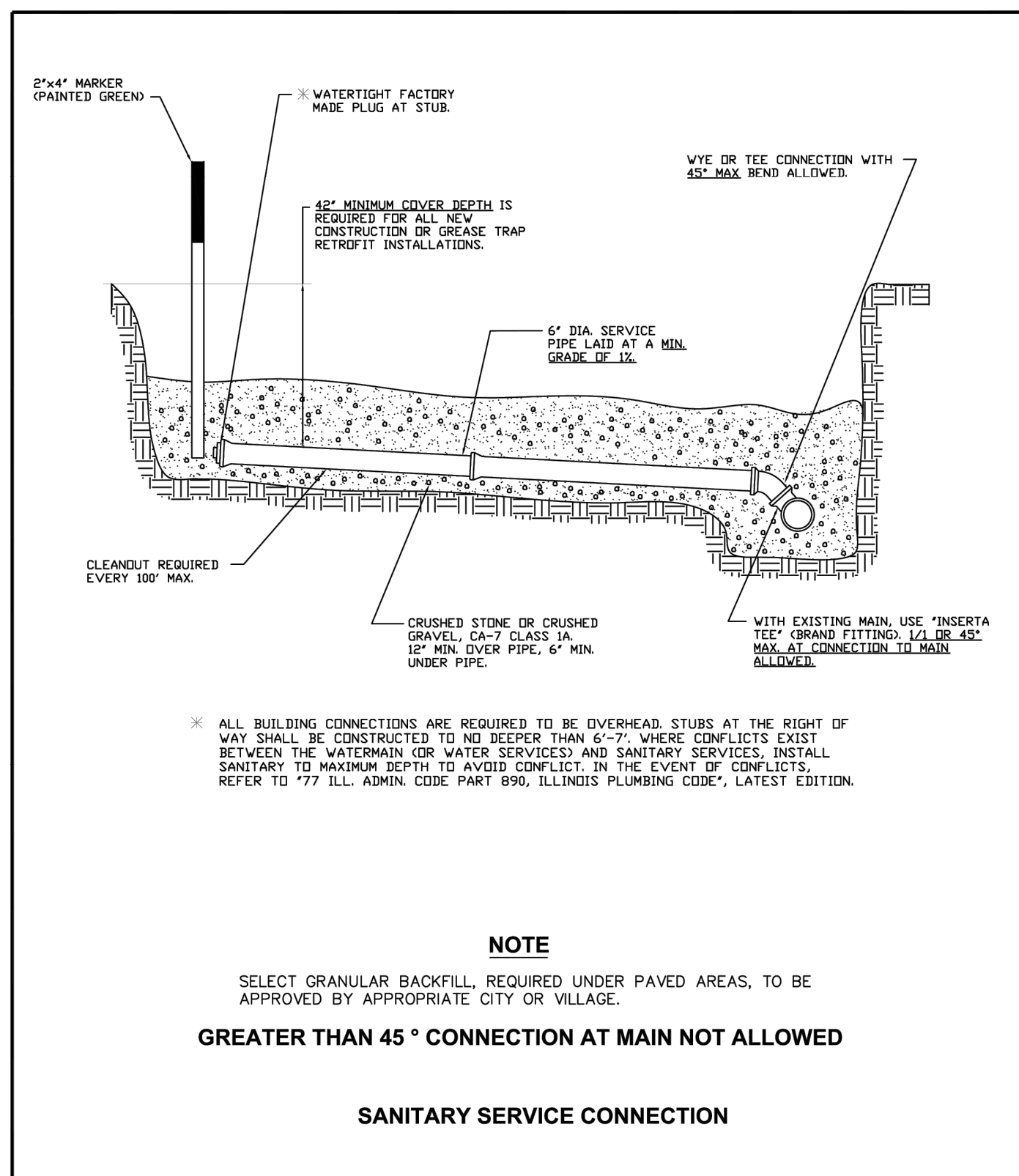
PLUG AND ABANDON EXISTING CONNECTIONS



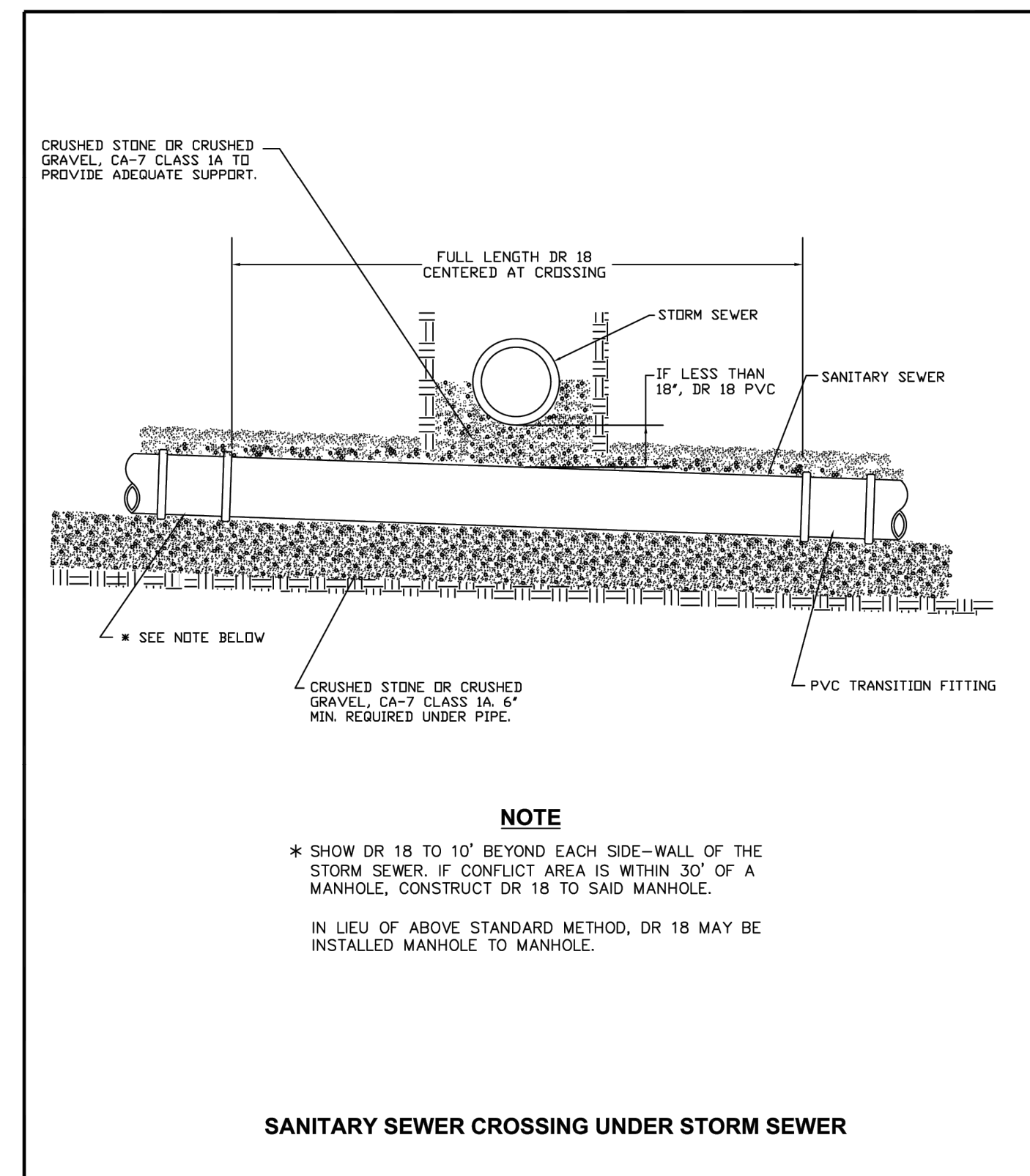
SANITARY SERVICE RESTORATION



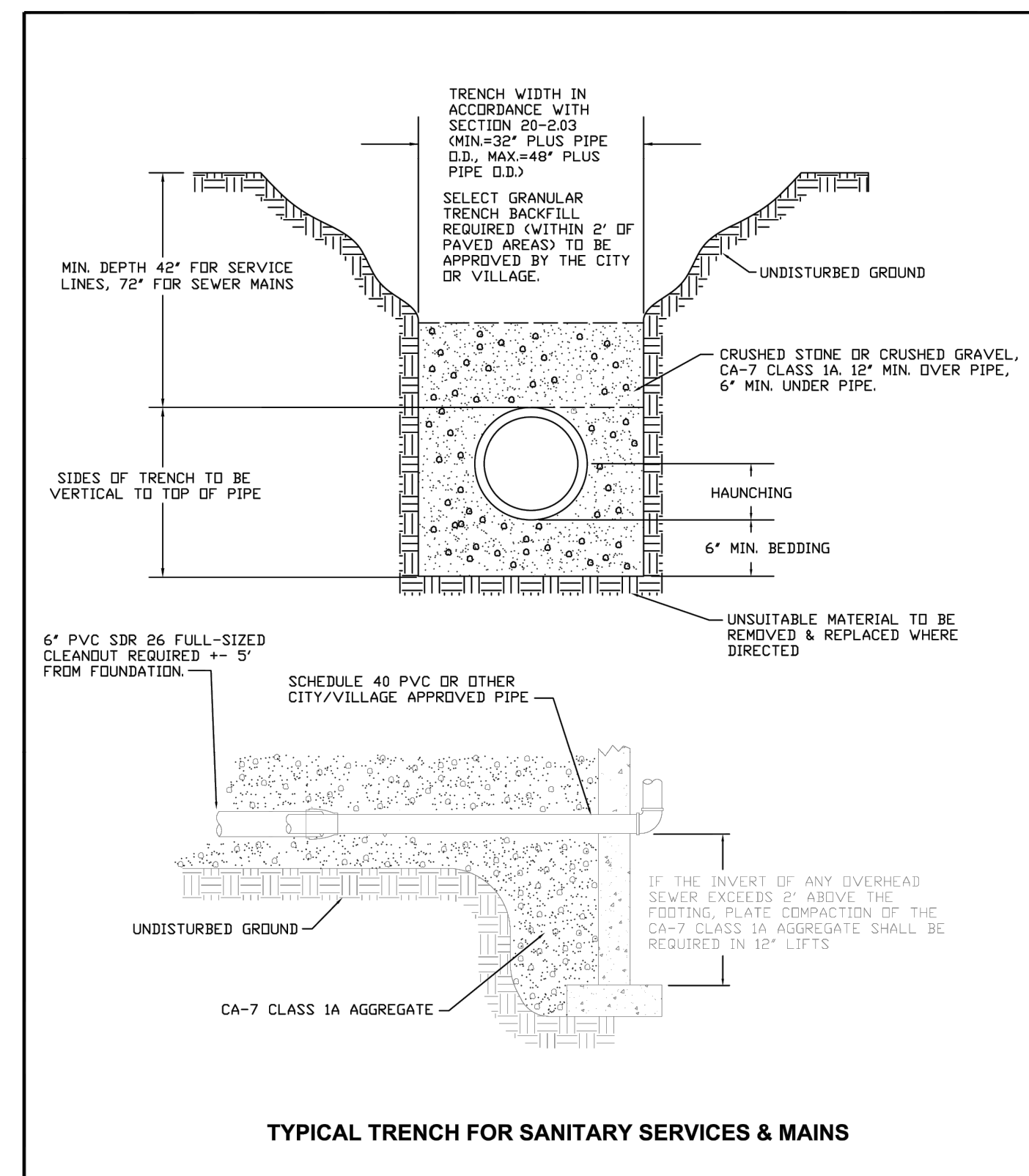
SANITARY SERVICE RECONNECTIONS



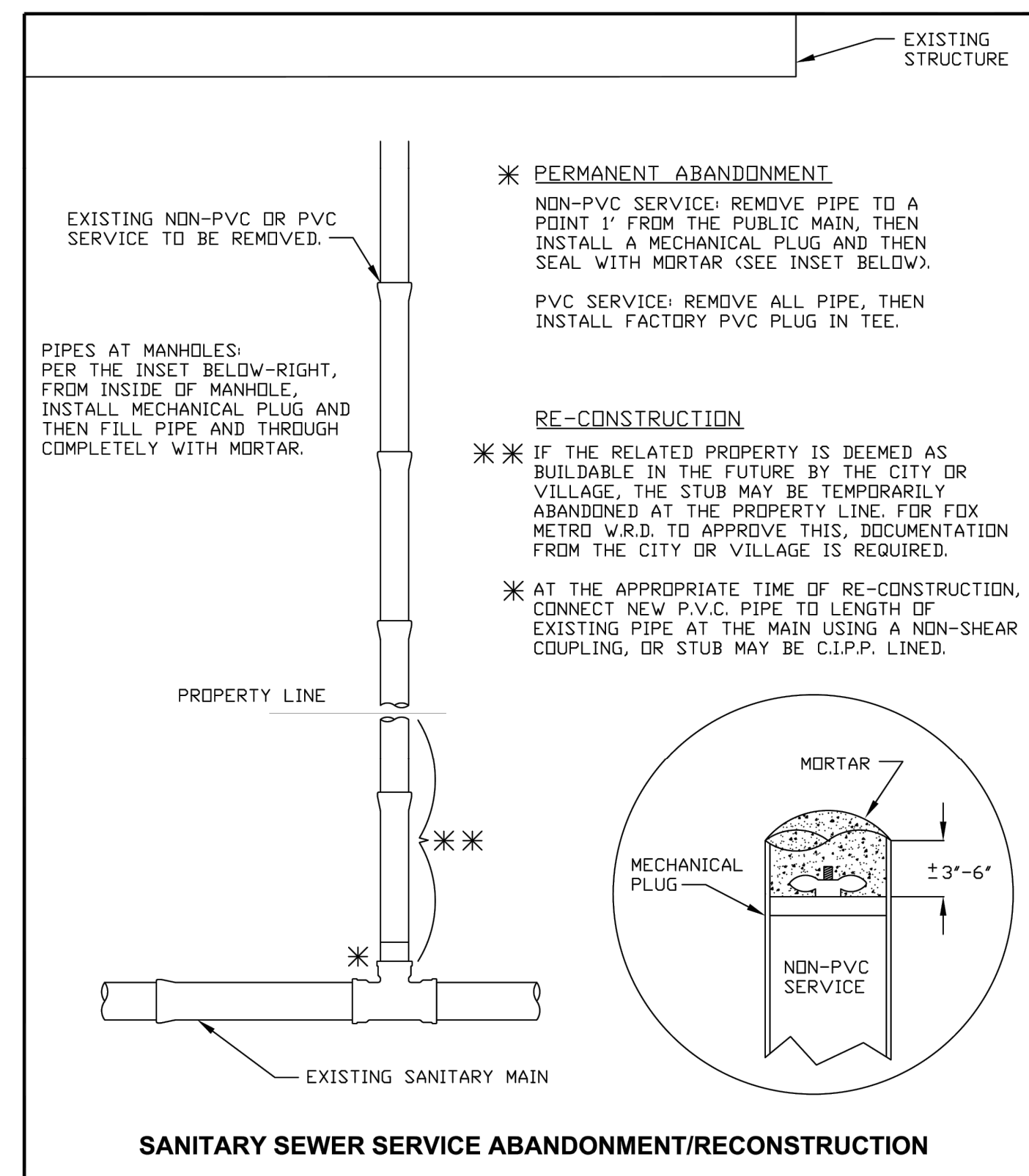
SANITARY SERVICE CONNECTION



SANITARY SEWER CROSSING UNDER STORM SEWER



TYPICAL TRENCH FOR SANITARY SERVICES & MAINS



SANITARY SEWER SERVICE ABANDONMENT/RECONSTRUCTION

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Fox Metro
Water Reclamation District

DESIGNED	FMWRD	REVISION	2023
DRAWN	KZ	F>Note Revisions	04/29/26
APPROVED	KZ, MF	G>Note Revisions	05/19/27
DATE	05-12-00	H>Overhead & Misc. Note Revisions	02/24/27
SCALE	NTS	I>Depth of stub at R.O.W. note rev.	07/23/2020
SHEET	1	CAD DWG.	REVISION
OF	1	JOB NO.	

Fox Metro
Water Reclamation District

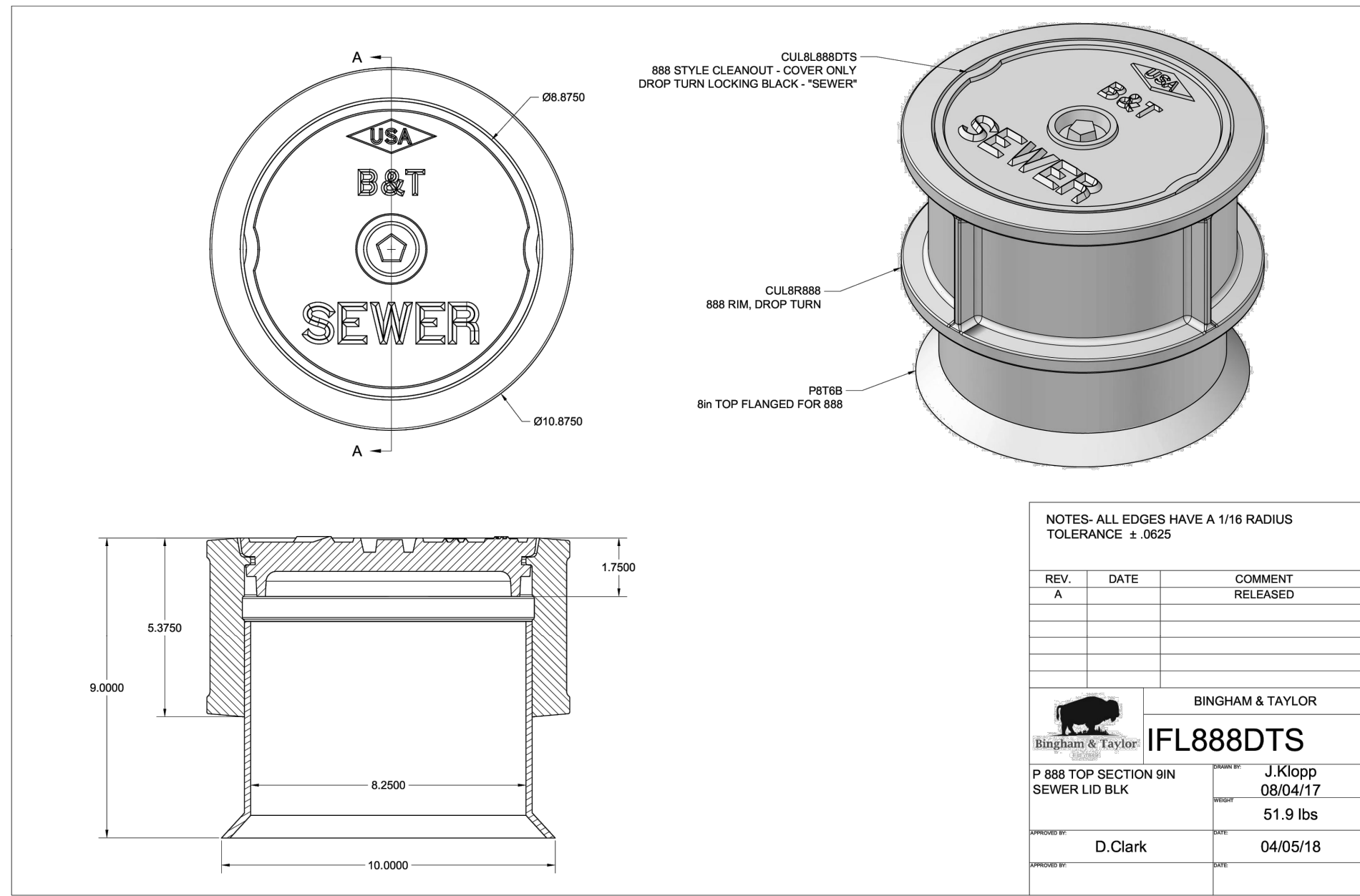
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DRAWN	KZ	G Dimension Change	04/29/26
APPROVED	KZ, MF	H Full Length DR 18 Note Rev.	02/29/27
DATE	05-15-00	I Rev. "NOTE" 10' beyond side wall	7/29/2020
SCALE	NTS	J Added "if" to "Less than 18" note	7/29/2020
SHEET	1	CAD DWG.	REVISION
OF	1	JOB NO.	

Fox Metro
Water Reclamation District

DESIGNED	FMWRD	REVISION	2023
DRAWN	KZ	D Stone Note	01/20/26
APPROVED	KZ, MF	E 07 Revisions	03/19/27
DATE	05-12-00	F Overdig Compaction Note	03/09/27
SCALE	NTS	G Full-Sized C.O. Res'd Note	07/23/2020
SHEET	1	CAD DWG.	REVISION
OF	1	JOB NO.	

Fox Metro
Water Reclamation District

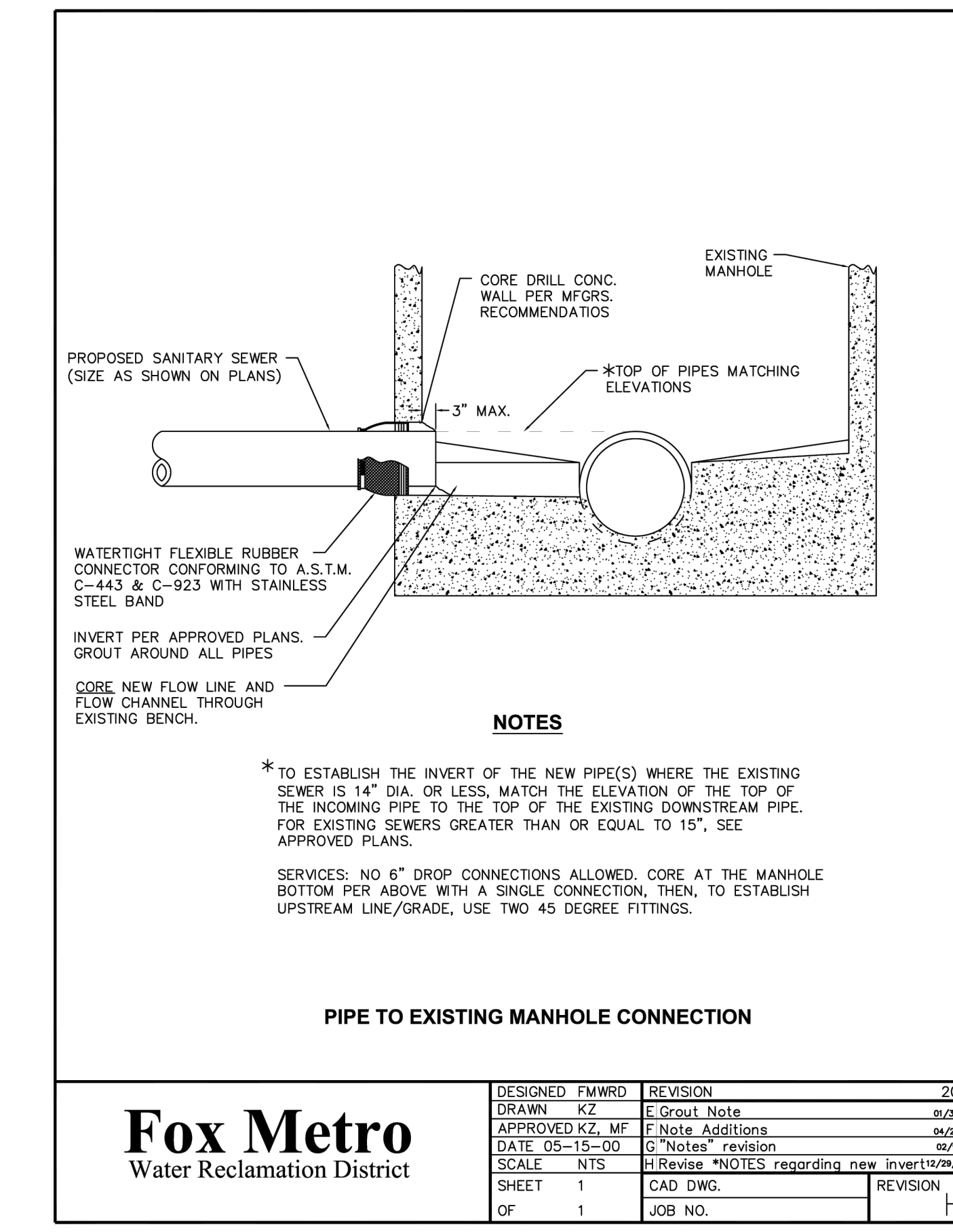
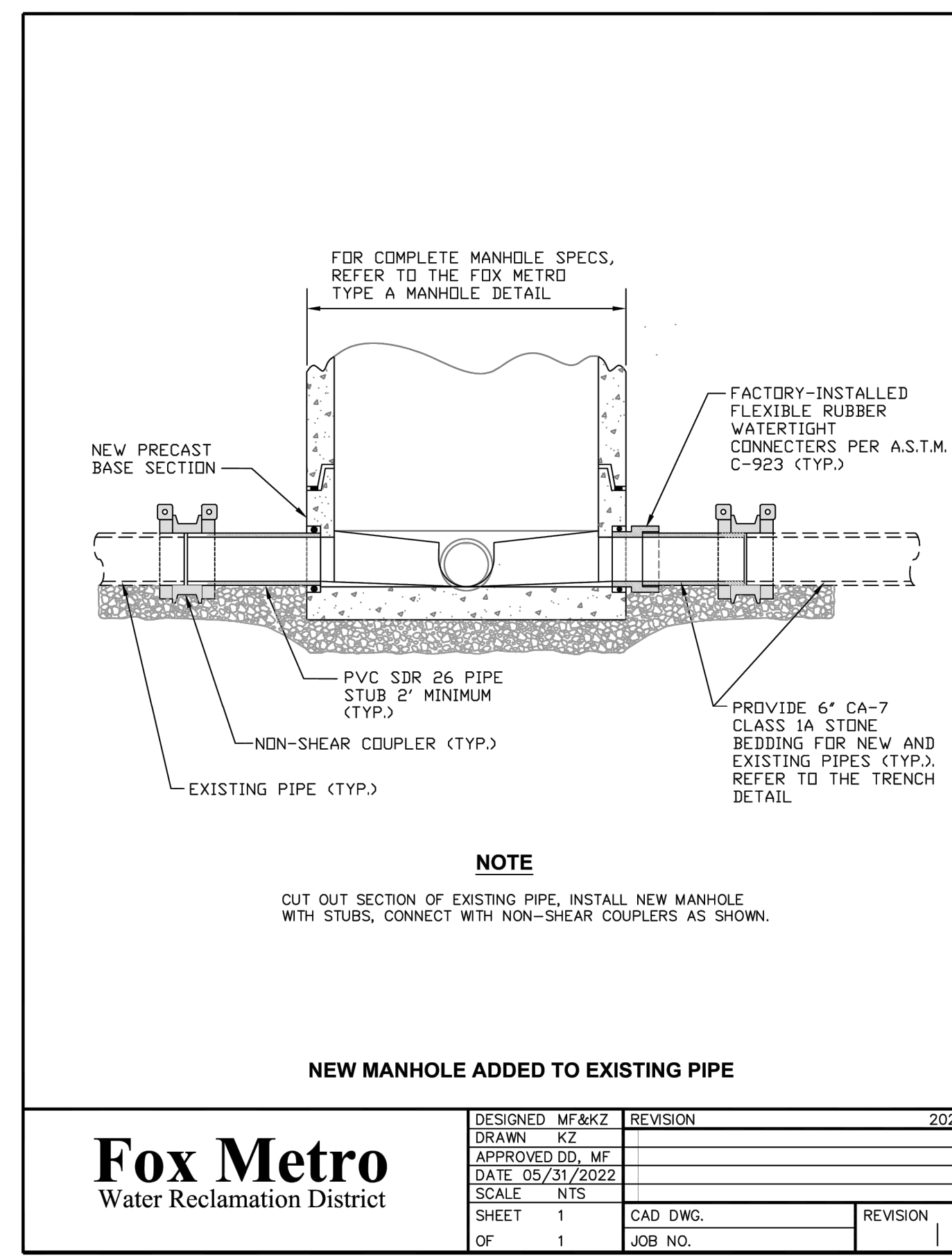
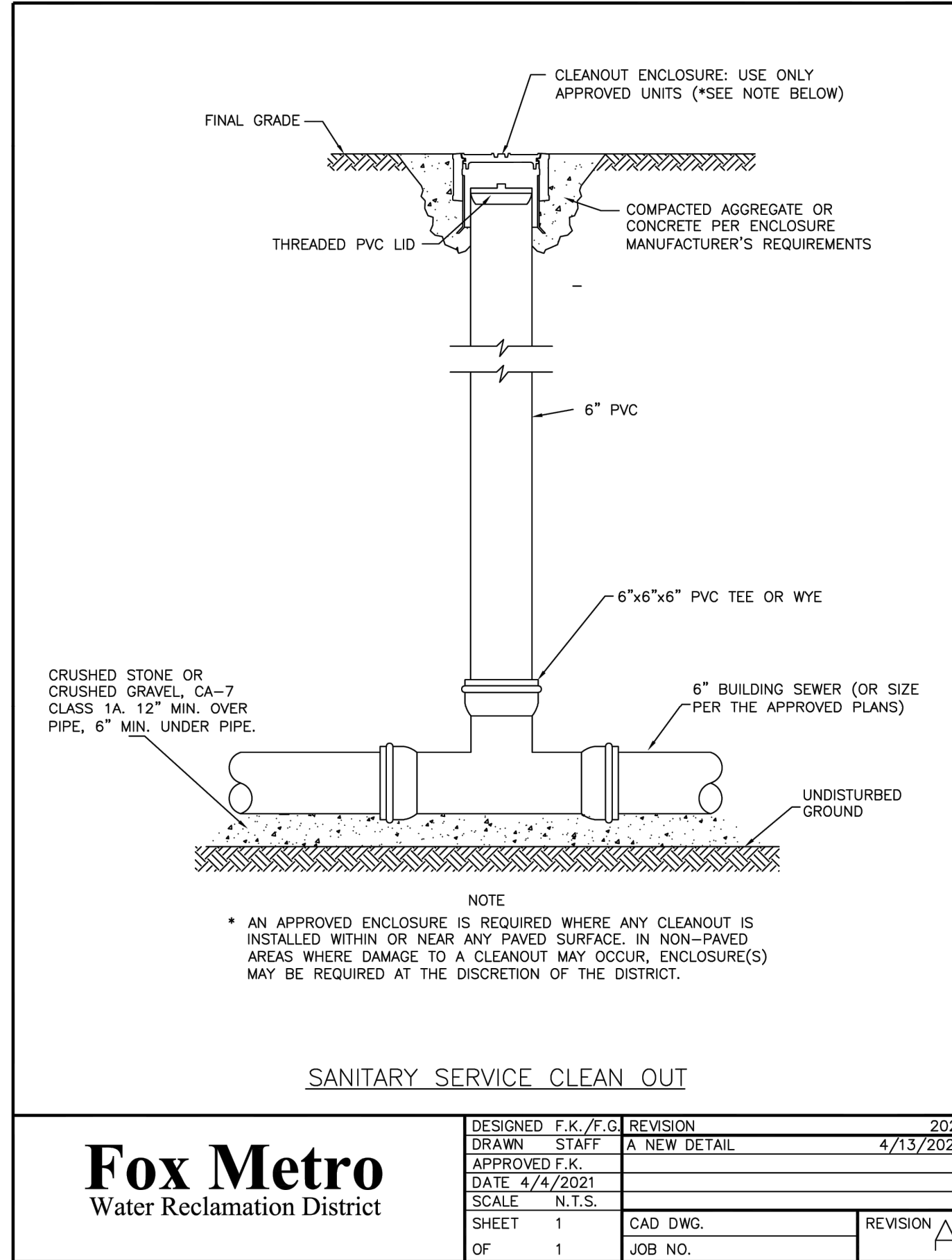
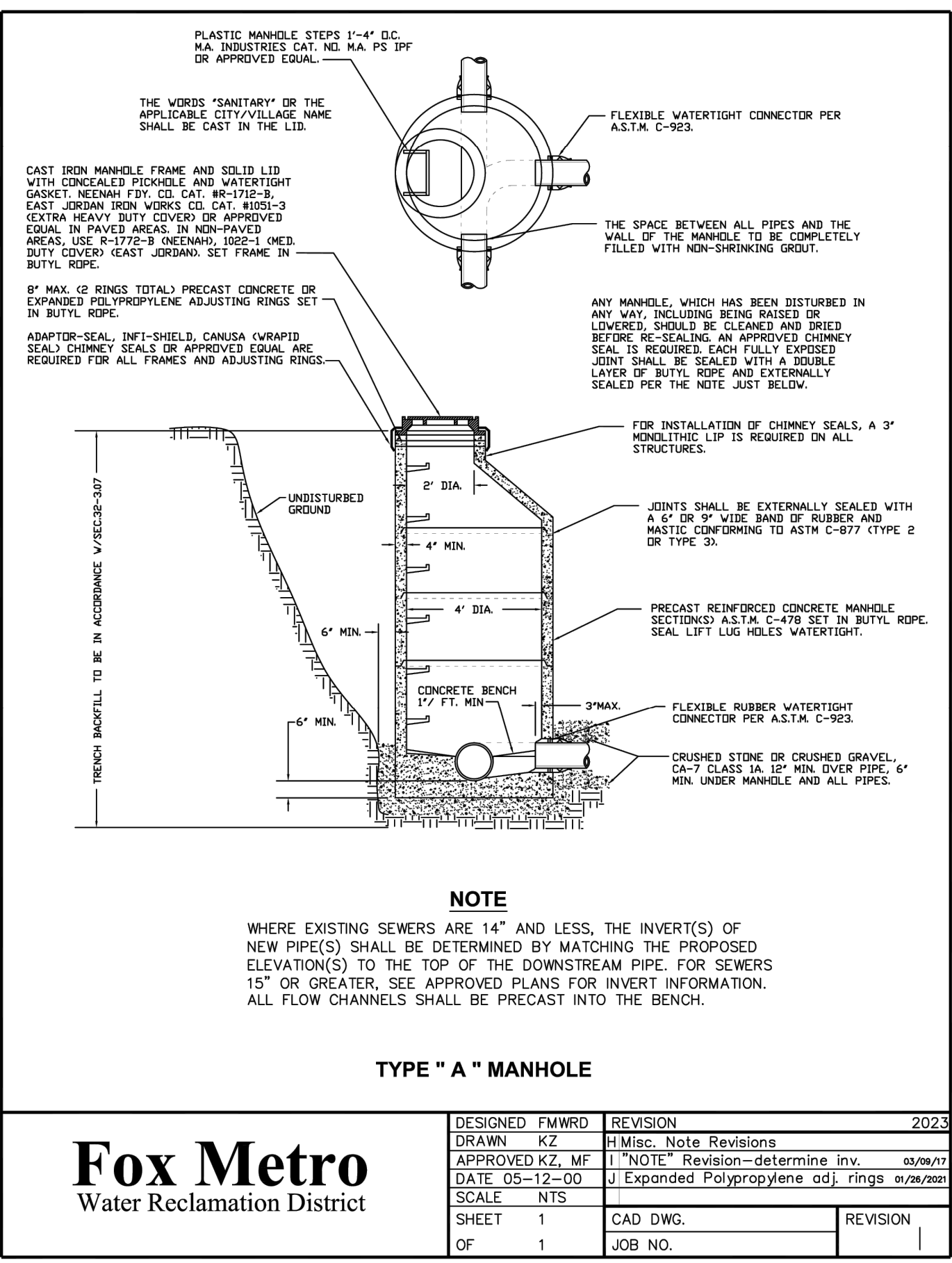
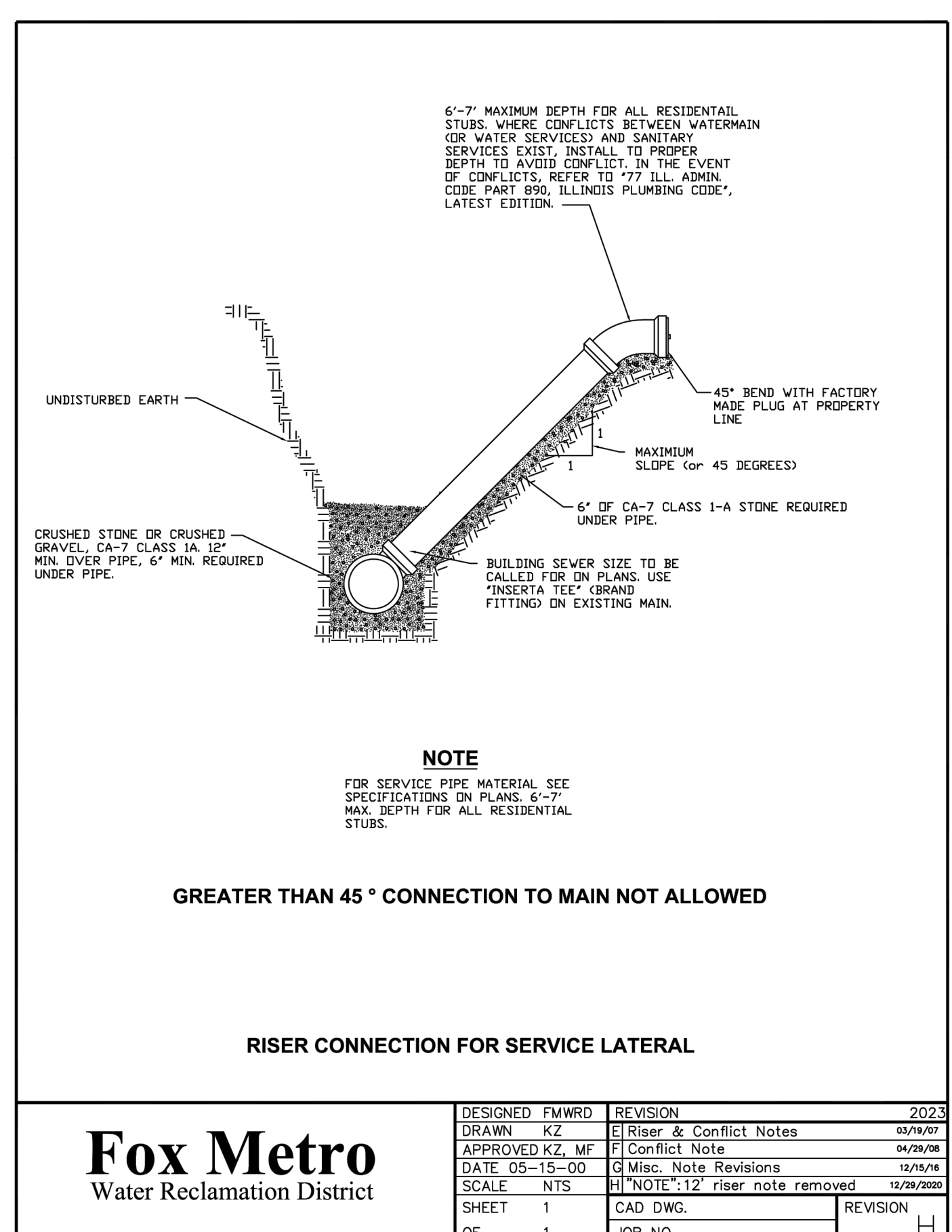
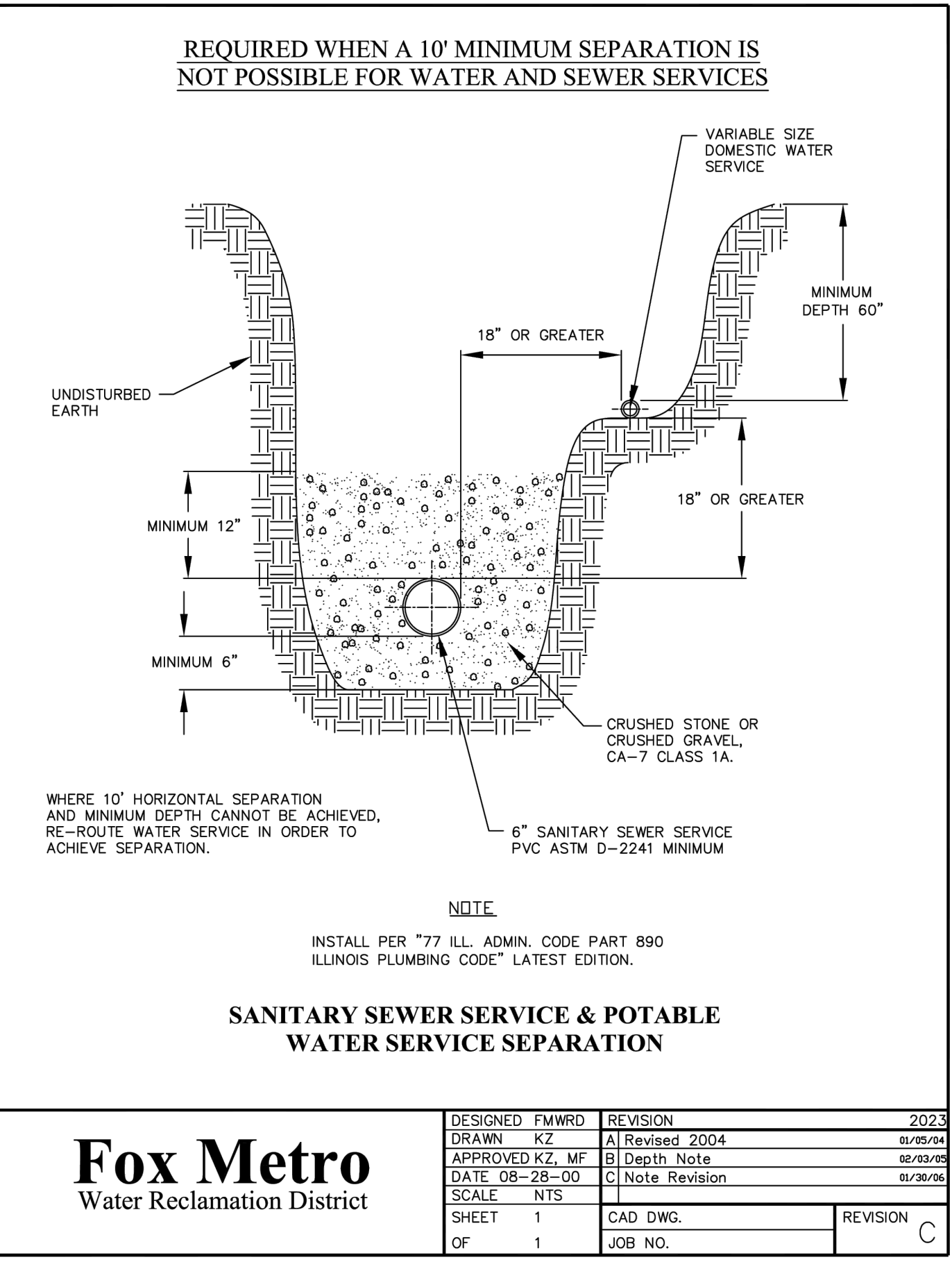
DESIGNED	FMWRD	REVISION	2023
DRAWN	KZ	C Rev. notes to reflect abandon at main	10/14/24
APPROVED	KZ, MF	D Documentation note added	05/19/27
DATE	05-09-06	E Permanent Abandonment Note Revision	05/09/2020
SCALE	NTS	F Permanent Abandonment Note Revision	02/29/2020
SHEET	1	CAD DWG.	REVISION
OF	1	JOB NO.	



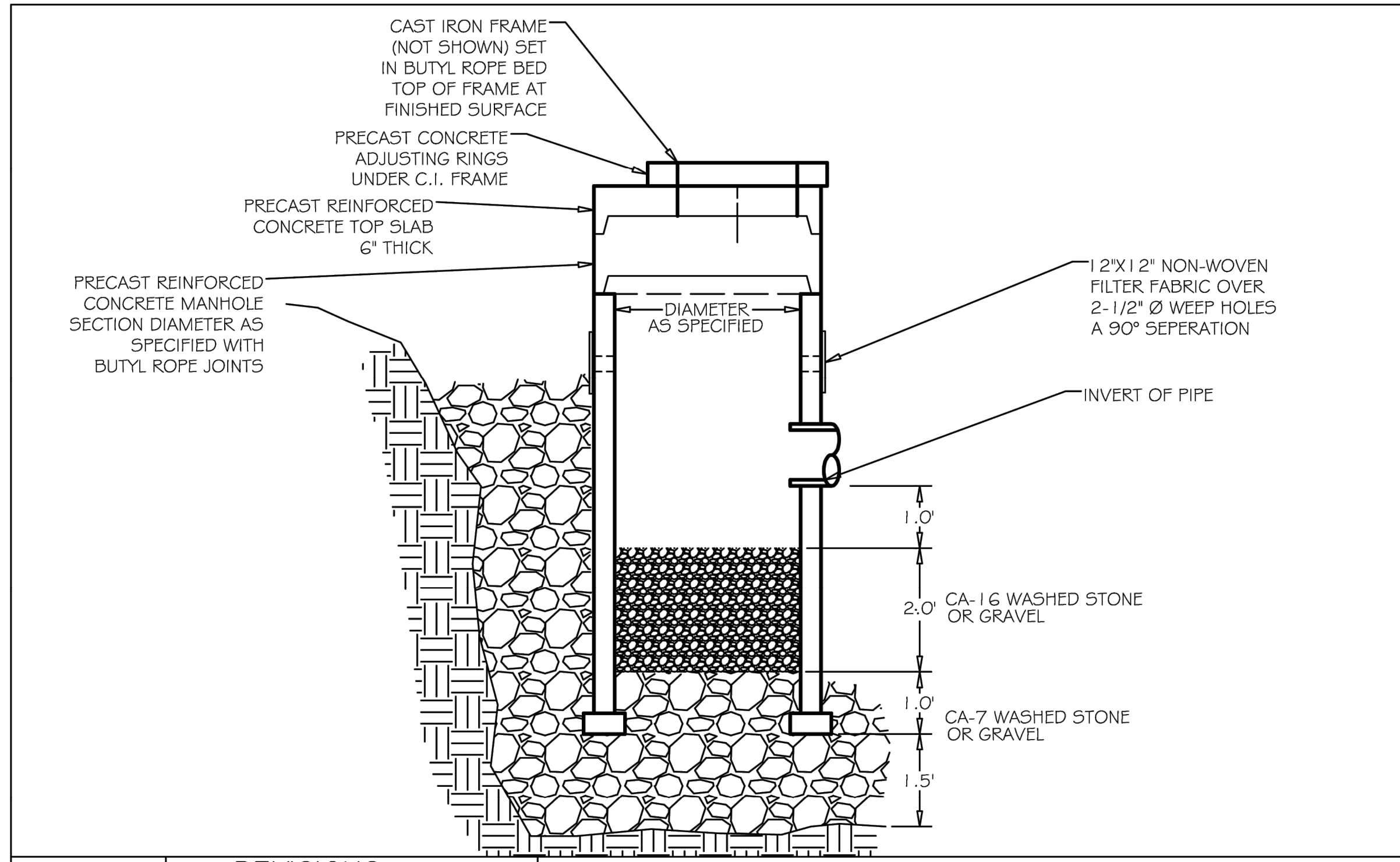
NOTES- ALL EDGES HAVE A 1/16 RADIUS TOLERANCE ± .0625

REV.	DATE	COMMENT
A		RELEASED

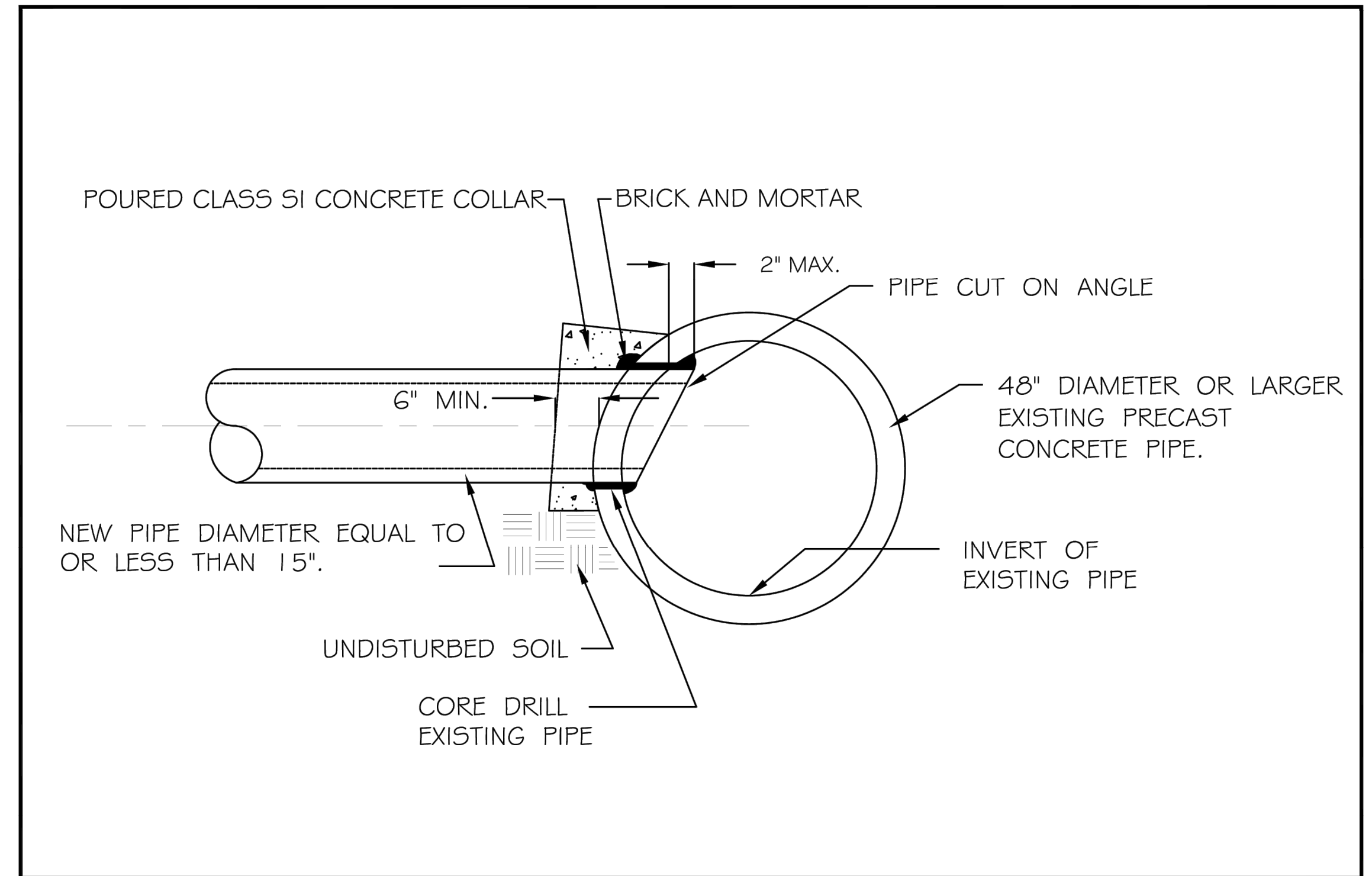
BINGHAM & TAYLOR
IFL888DTS
 P 888 TOP SECTION 9IN SEWER LID BLK
 J.Klopp 08/04/17
 51.9 lbs
 D.Clark 04/05/18



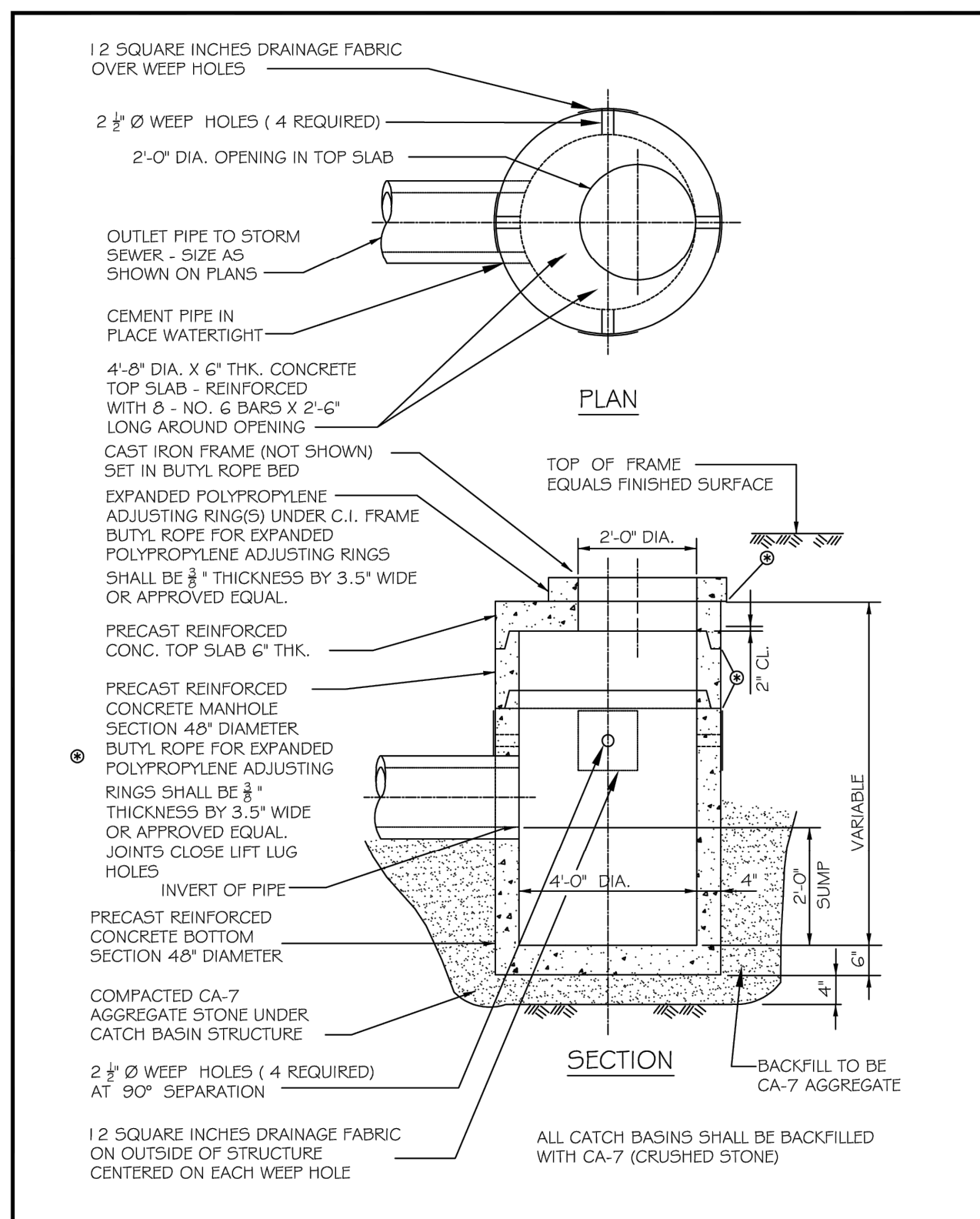
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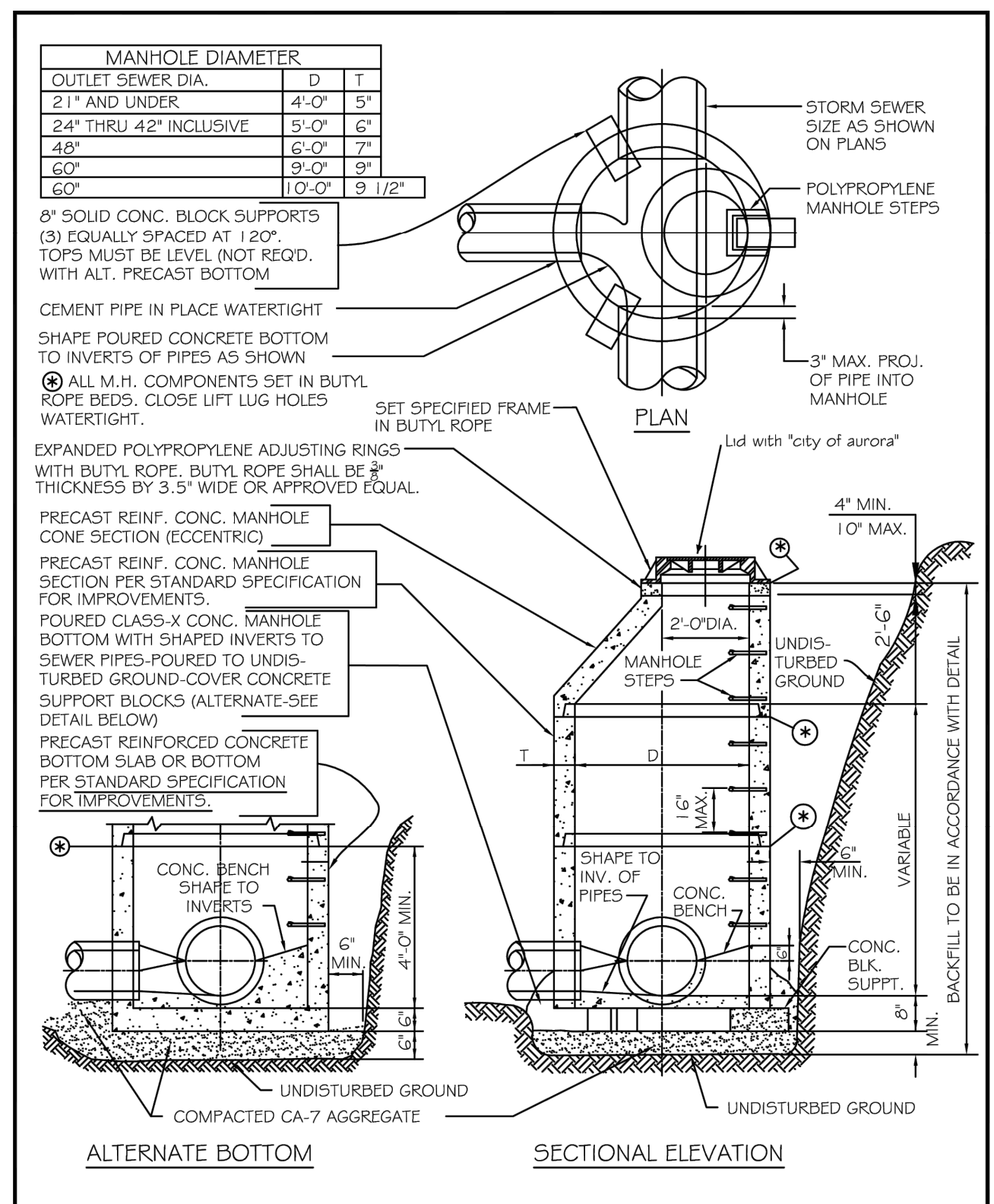
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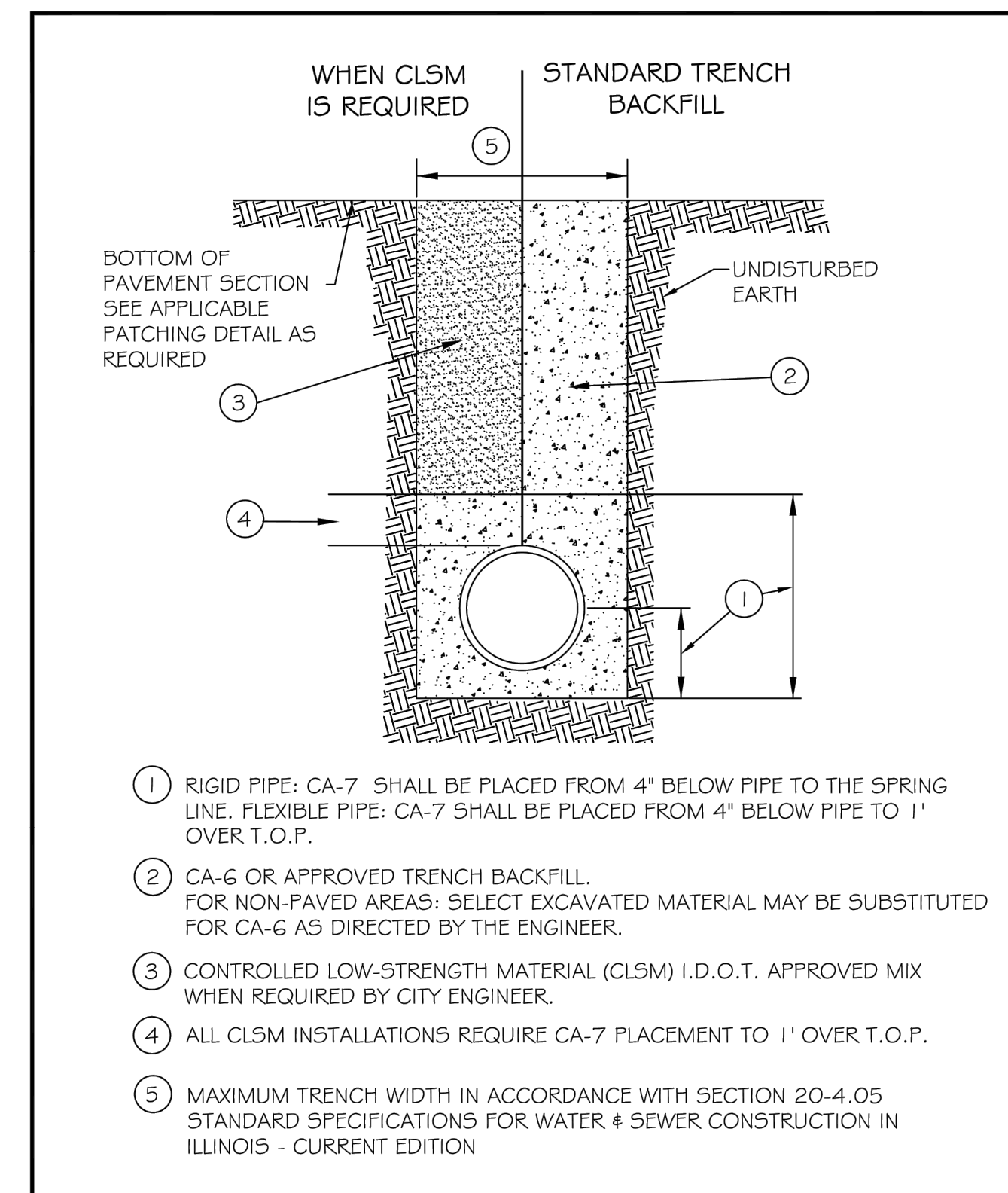
	REVISIONS DATE: 02/26/20 BY: DGoewey		STORM SEWER CONNECTION TO EXISTING PIPE SCALE: NOT TO SCALE CHECKED: DF DATE: 10/2007 DRAWN: jhs		DRAWING NUMBER: EXHIBIT III-A-6



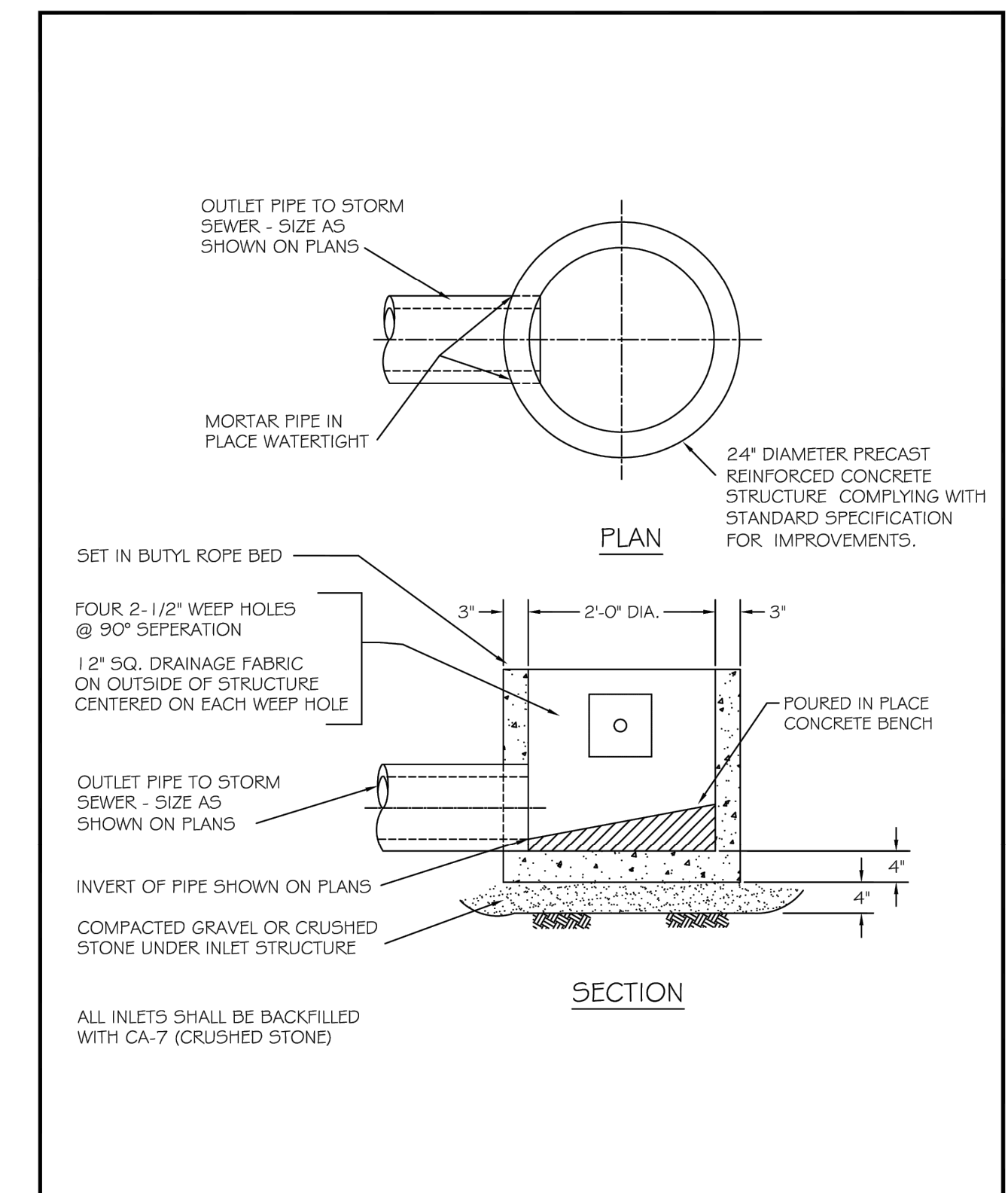
	REVISIONS DATE: 02/26/20 BY: DGoewey		CATCH BASIN TYPE B SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM		DRAWING NUMBER: EXHIBIT III-A-4



	REVISIONS DATE: 01/2011 BY: jhs		STORM MANHOLE, TYPE A DETAIL SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM		DRAWING NUMBER: EXHIBIT III-A-3

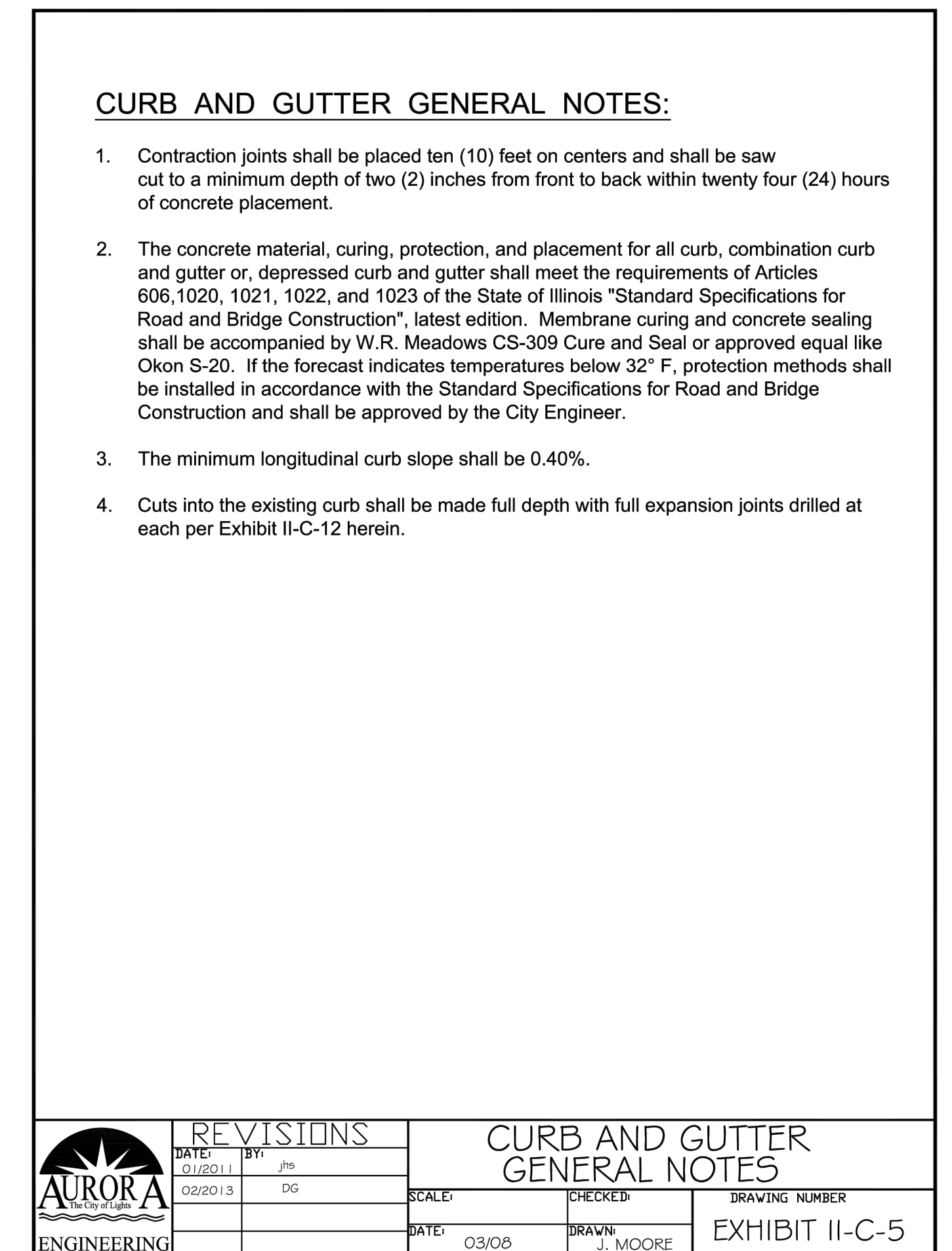
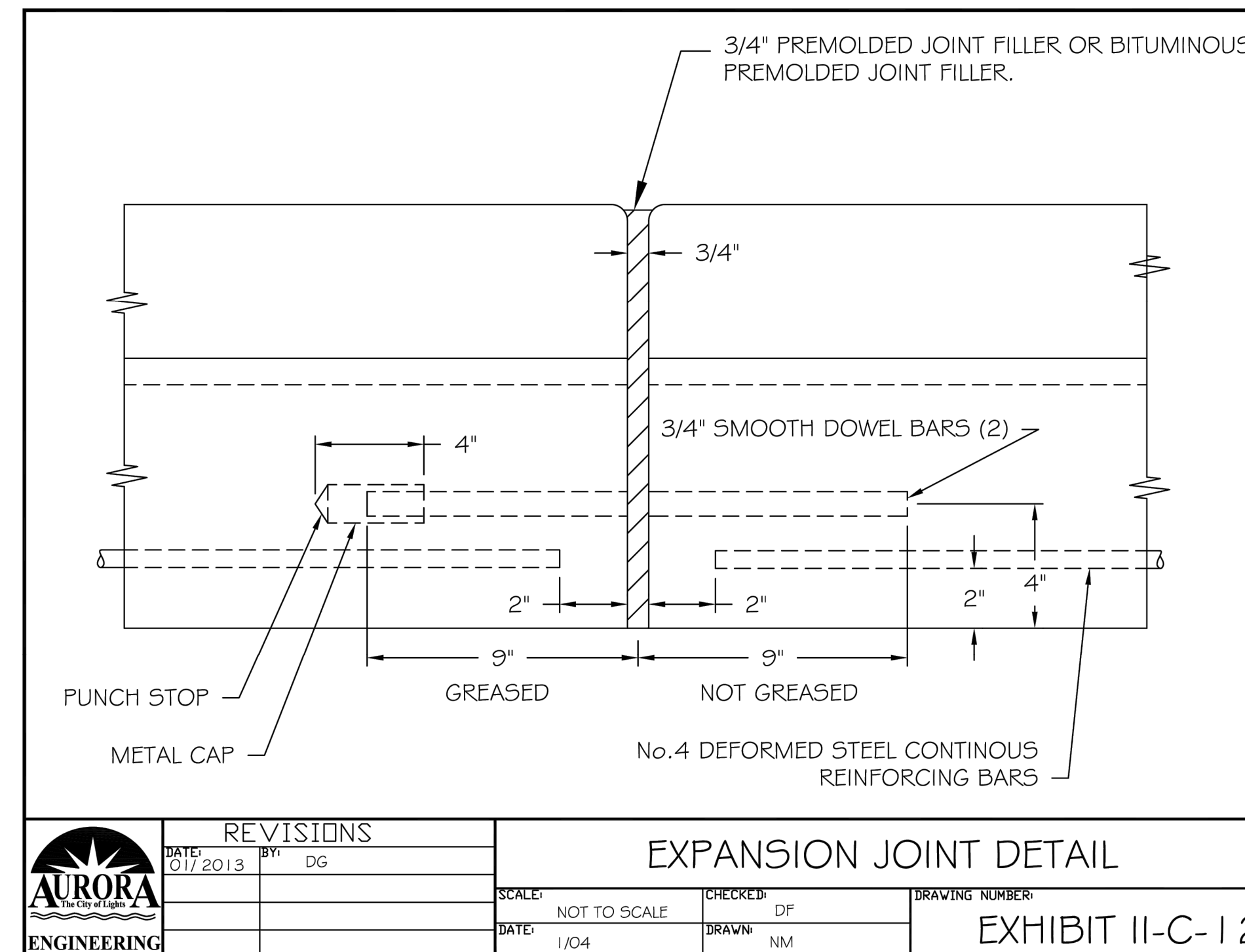
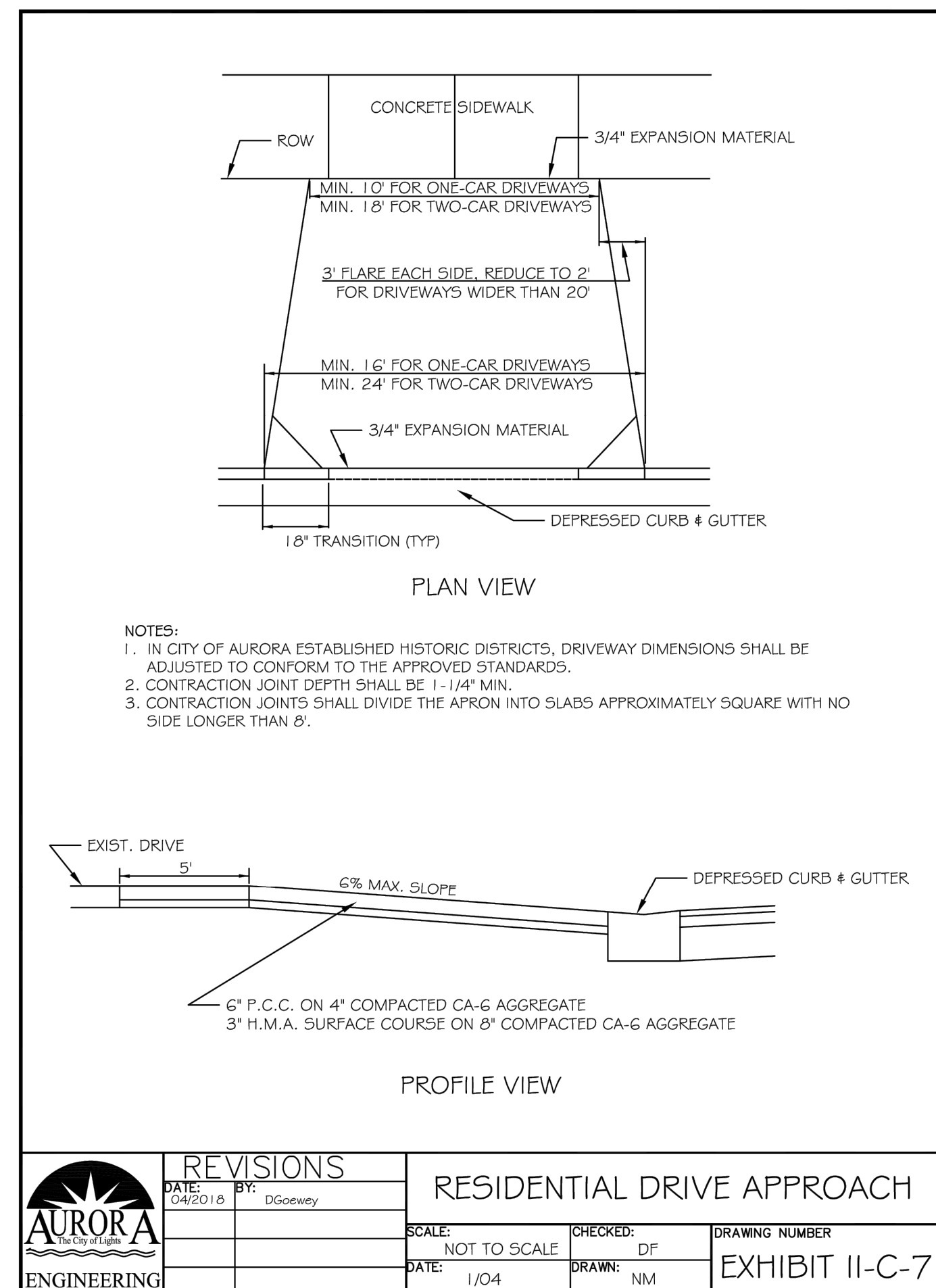
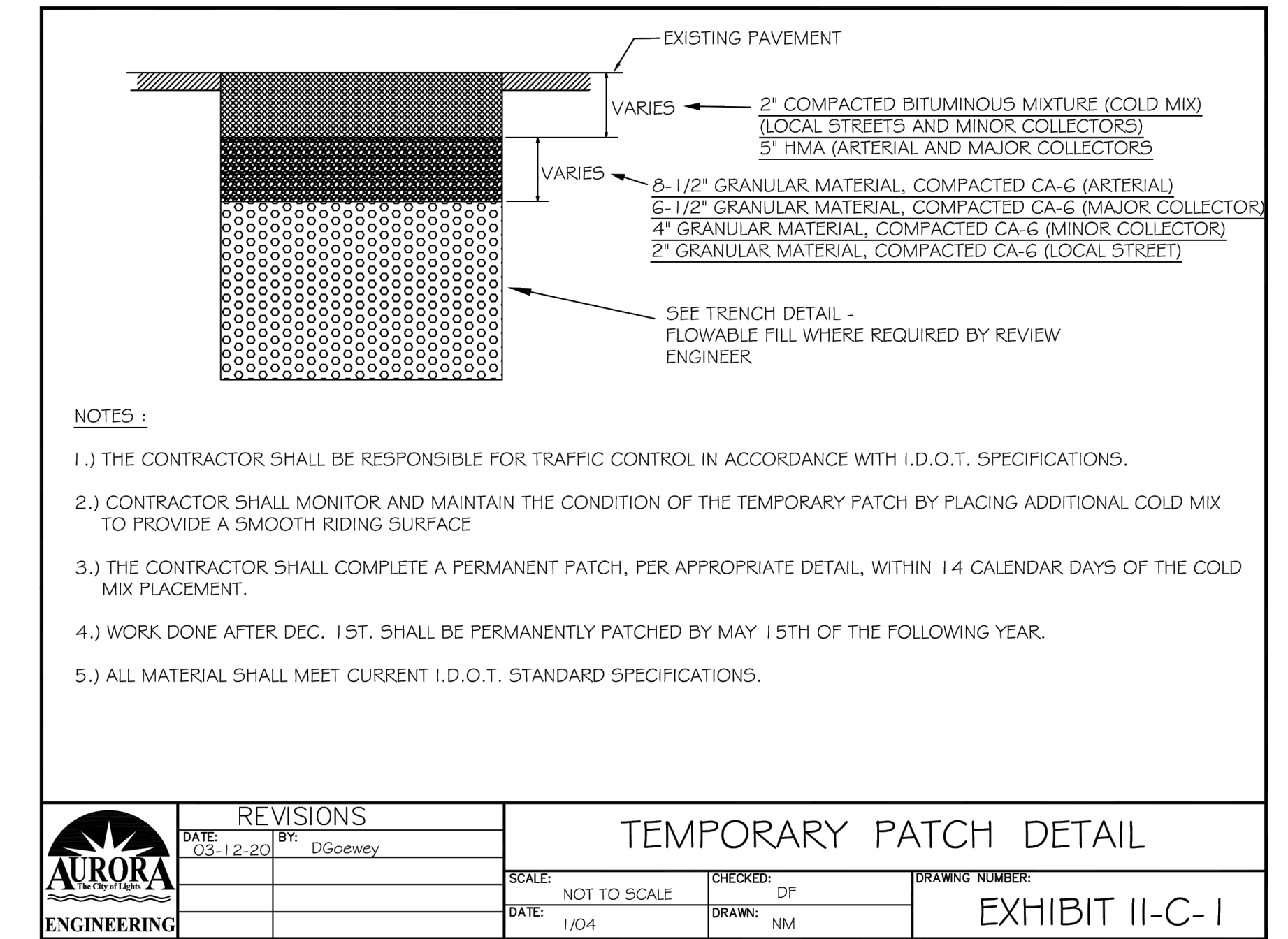
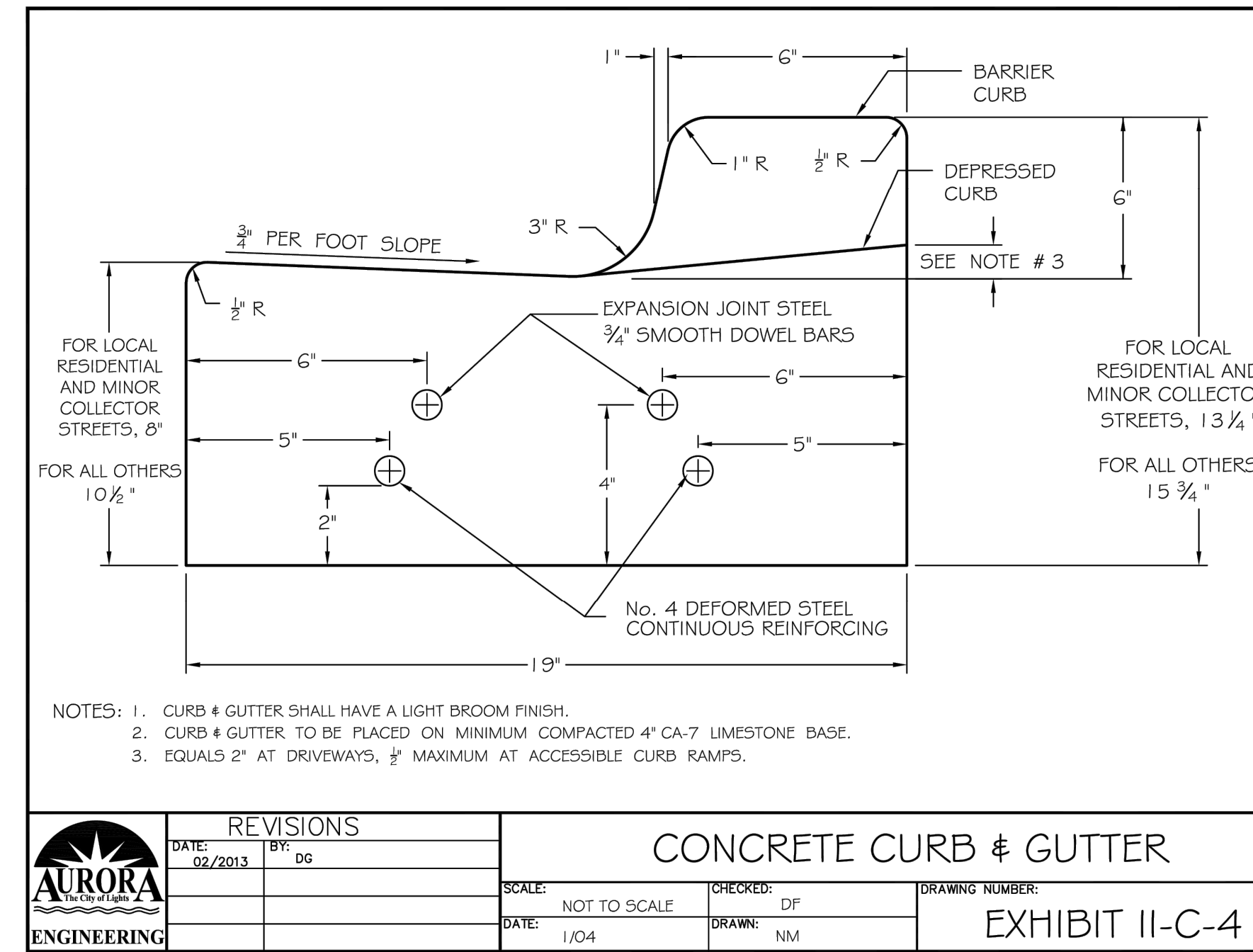
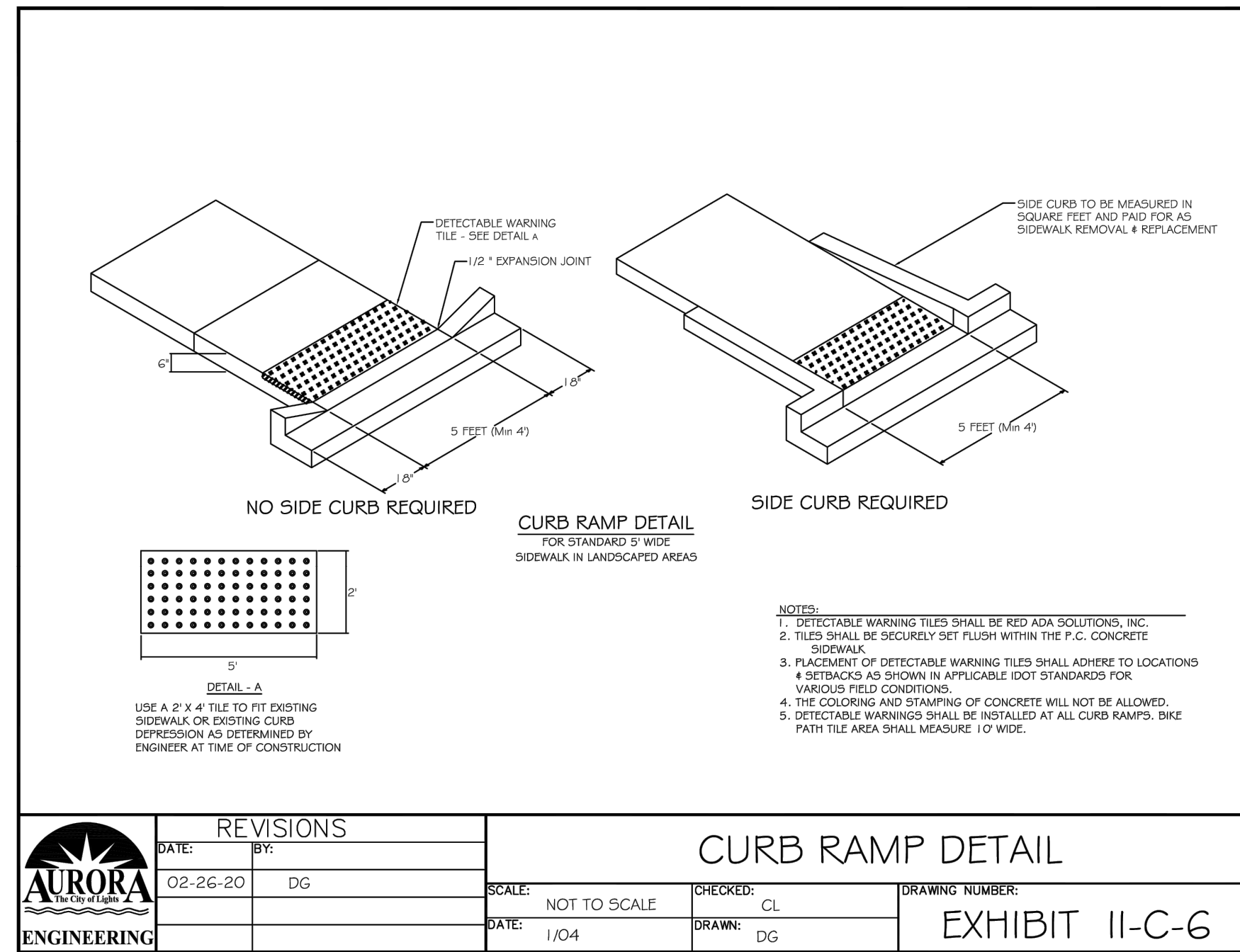


	REVISIONS DATE: 02/10 BY: DGoewey		SEWER TRENCH DETAIL PAVED & UNPAVED SCALE: NOT TO SCALE CHECKED: LA DATE: 1/04 DRAWN: DG		DRAWING NUMBER: EXHIBIT III-A-1

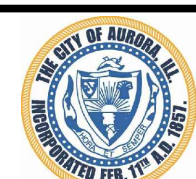


	REVISIONS DATE: 01/2011 BY: jhs		STORM INLET, TYPE A DETAIL SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM		DRAWING NUMBER: EXHIBIT III-A-5

PLOT DATE: 4/27/2026 11:39 AM
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 LAST SAVED BY: HernandezA



PLOT DATE: 4/27/2026 11:39 AM
FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO DETAILS.DWG



CITY OF AURORA
ENGINEERING DIVISION
77 SOUTH BROADWAY
AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY: OSC
CHECKED BY: KTM
SCALE: N.T.S.
DRAWN BY: AHB
APPROVED BY: KTM
DATE: 4/2026

PROJECT

CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL

SHEET TITLE

STANDARD DETAILS

SHEET NUMBER

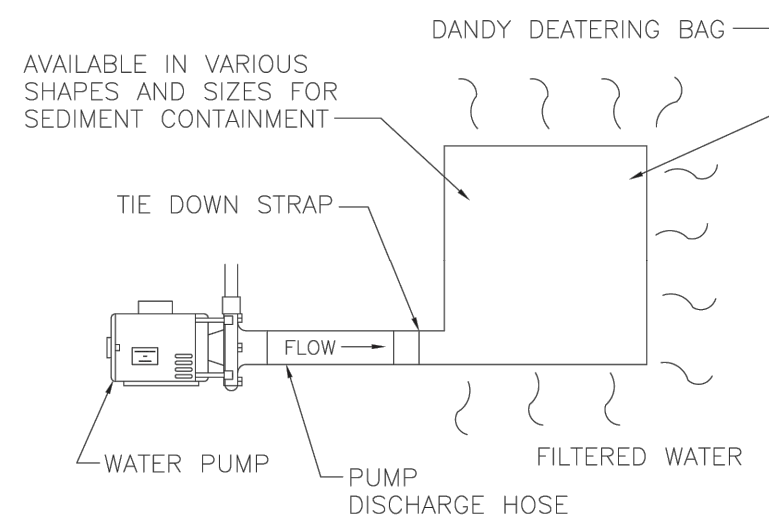
23

TOTAL SHEETS

25

DANDY DEWATERING BAG™ PLAN INSERT

The Dandy Dewatering Bag™ is not intended for any other use and should not be used for any other purpose.



The Dandy Dewatering Bag™ is designed to control sediment discharge in dewatering applications where water is being pumped.

Installation

- Lifting straps, not included, should be placed under the Dandy Dewatering Bag™ to facilitate removal after use.
- Place the Dandy Dewatering Bag™ on a level stabilized area over dense vegetation/straw, or Gravel (if increased drainage surface area is needed) or as detailed in plans.
- Insert discharge hose from pump into the Dandy Dewatering Bag™ a minimum of six inches (6") and tightly secure with attached strap to prevent water from flowing out of the unit without being filtered.
- Replace the unit when one half (1/2) full of sediment or when sediment has reduced the flow rate of the pump discharge to an impractical rate.

Maintenance

Remove and dispose of the sediment in a manner satisfactory to the engineer/inspector or in one of the following ways:

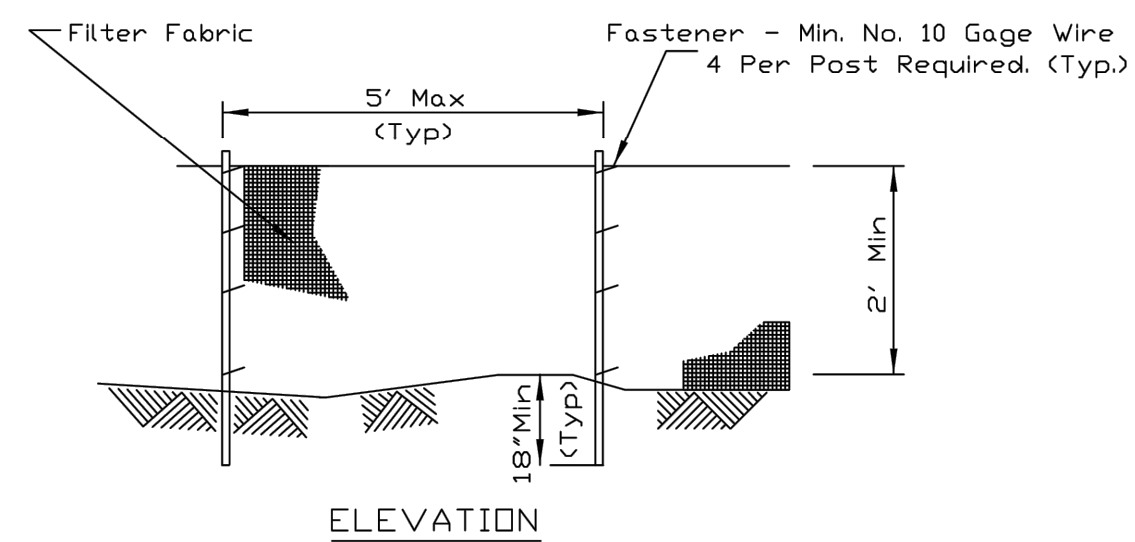
- Remove the unit and sediment from environmentally sensitive area and waterways. At the approved disposal site open or silt unit, remove sediment and grade smoothly into existing topography. Dispose of the Dandy Dewatering Bag™ no longer in use, at an appropriate recycling or solid waste facility.
- Bury unit on site; remove visible fabric and seed.

DANDY PRODUCTS, INC.
2011 HARRISBURG PIKE, SUITE R
GROVE CITY, OHIO 43123

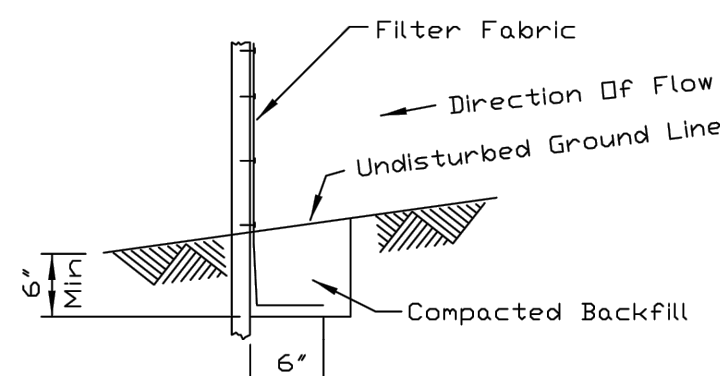
1-800-591-2284
(local) 614-875-2284
FAX: 614-875-6305

E-MAIL: dandy@dandyproducts.com
www.dandyproducts.com

SILT FENCE PLAN



ELEVATION



FABRIC ANCHOR DETAIL

NOTES:

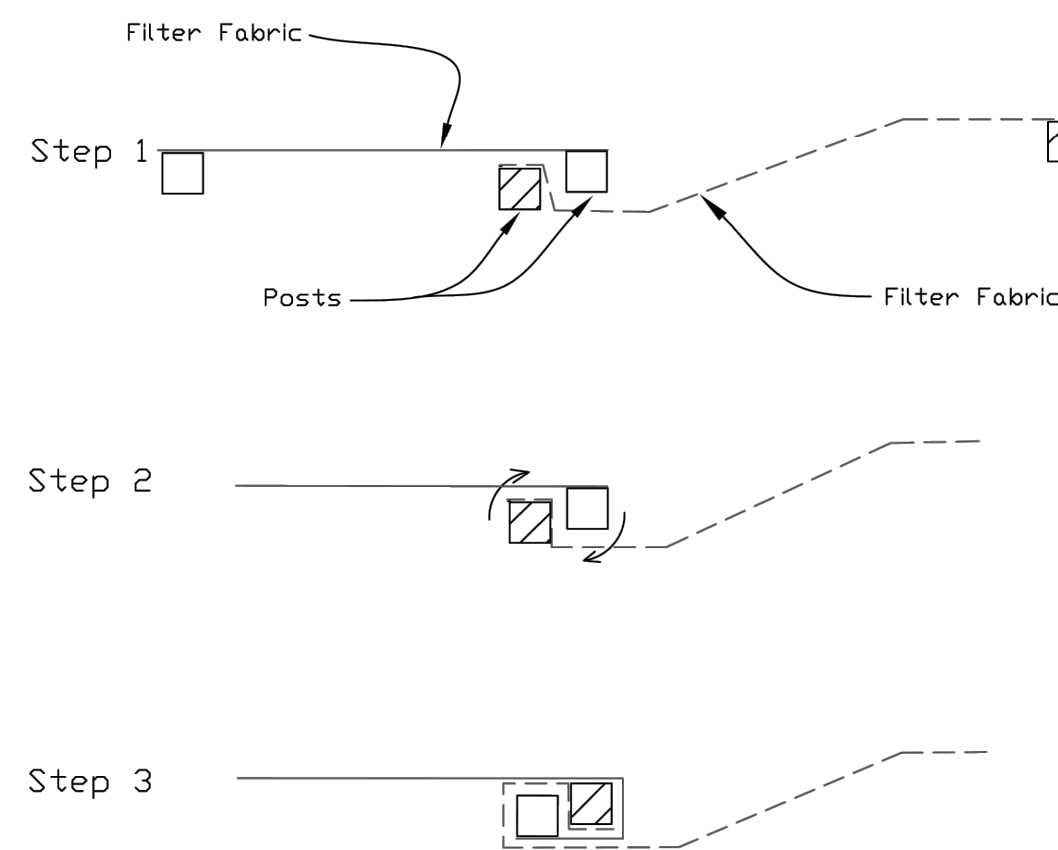
- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
- Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
- Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.	IL-620
SHEET	1 OF 2
DATE	11-20-01

SILT FENCE - SPLICING TWO FENCES



ATTACHING TWO SILT FENCES

- Place the end post of the second fence inside the end post of the first fence.
- Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
- Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
- Drive both posts a minimum of 18 inches into the ground and bury the flap.
- Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.	IUM-620B(W)
SHEET	1 OF 1
DATE	3-16-2012

KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT STANDARD NOTES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.

THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.

DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.

IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM AND SUB-CONTRACTORS WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

ALL DROP INLETS ON OR ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES.

ALL ADJACENT STREETS SHALL BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY.

ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT OF 0.5" OR MORE.

IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 21 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 14TH DAY AFTER WORK HAS CEASED.

THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING, AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

SOIL STABILIZATION TABLE

REQUIRED FOR ALL DISTURBED GRASS AREAS

CITY OF AURORA MIX	
24.93%	ASAP PERENNIAL RYEGRASS
24.46%	CADDISSHACK PERENNIAL RYEGRASS
24.33%	GOALKEEPER PERENNIAL RYEGRASS
12.37%	GERONIMO KENTUCKY BLUEGRASS
12.29%	KENTUCKY BLUEGRASS (VARIETY NOT STATED)
1.34%	INERT MATTER
0.28%	CROP
0.00%	WEED

MULCH: MECHANICALLY CRIMPED STRAW OR HYDRO-MULCH

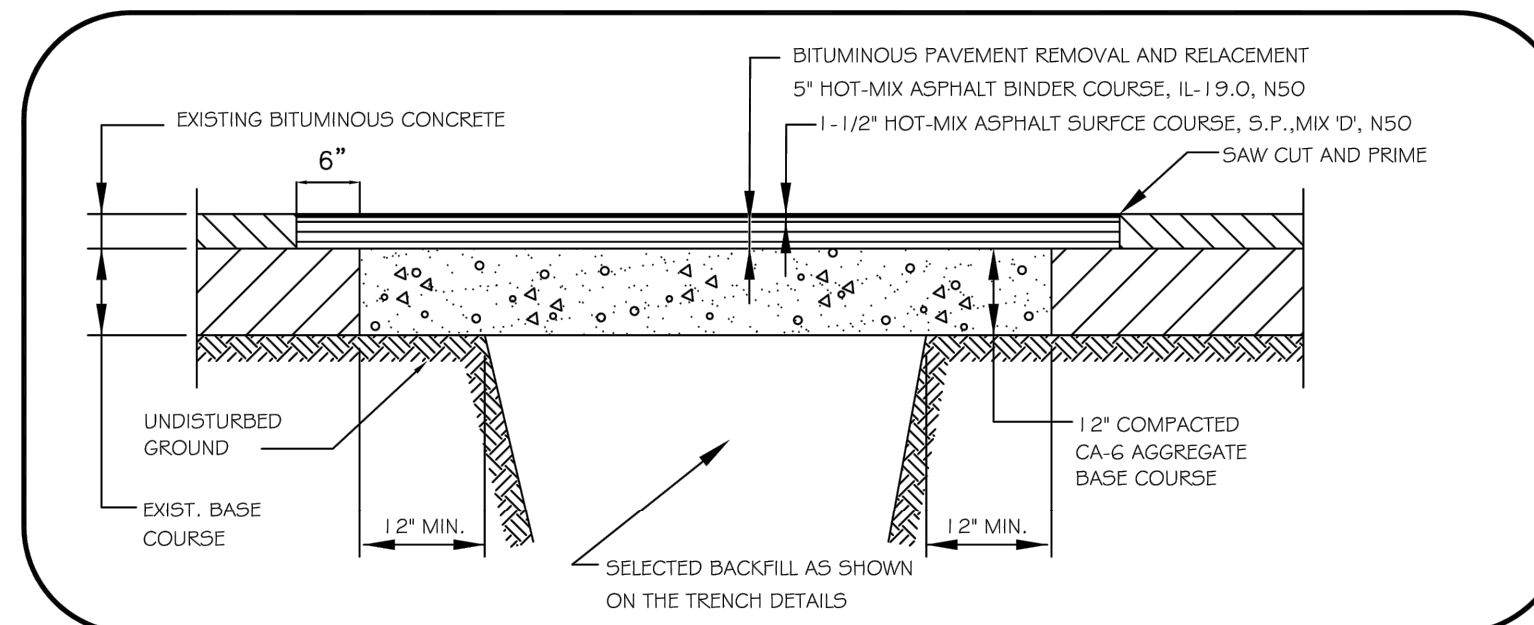
CONTRACTOR'S CERTIFICATION:

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION

SIGNED _____ DATE _____

PRINT NAME _____

NAME OF COMPANY _____



PAVEMENT RESTORATION FOR RESIDENTIAL STREETS AND MINOR COLLECTORS

Water mains and water service lines shall be protected from sanitary sewers, storm sewers, combined sewers, house sewer service connections and drains as follows:

a) Water Mains:

1) Horizontal Separation:

A) Water mains shall be laid at least ten feet horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combined sewer or sewer service connection.

B) Water mains may be laid closer than ten feet to a sewer line when:

- local conditions prevent a lateral separation of ten feet;
- the water main invert is at least 18 inches above the crown of the sewer; and
- the watermain is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.

C) Both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, asbestos-cement pressure pipe, prestressed concrete pipe, or PVC pipe meeting the requirements of Section 653.111 when it is impossible to meet (A) or (B) above. The drain or sewer shall be pressure tested to the maximum expected surcharge head before backfilling.

2) Vertical Separation:

A) A water main shall be laid so that its invert is 18 inches above the crown of the drain or sewer whenever water mains cross storm sewers, sanitary sewers or sewer service connections. The vertical separation shall be maintained for that portion of the water main located within ten feet horizontally of any sewer or drain crossed. A length of water main pipe shall be centered over the sewer to be crossed with joints equidistant from the sewer or drain.

B) Both the water main and sewer shall be constructed of slip-on or mechanical joint cast or ductile iron pipe, asbestos-cement pressure pipe, prestressed concrete pipe, or PVC pipe meeting requirements of Section 653.111 when:

- it is impossible to obtain the proper vertical separation as described in (A) above; or
- the water main passes under a sewer or drain.

C) A vertical separation of 18 inches between the invert of the sewer or drain and the crown of the water main shall be maintained where a water main crosses under a sewer. Support the sewer or drain lines to prevent settling and breaking the water main.

D) Construction shall extend on each side of the crossing until the normal distance from the water main to the sewer or drain line is at least ten feet.

b) Water Service Lines:

1) The horizontal and vertical separation between water service lines and all storm sewers, sanitary sewers, combined sewers or any drain or sewer service connection shall be the same as water main separation described in (a) above.

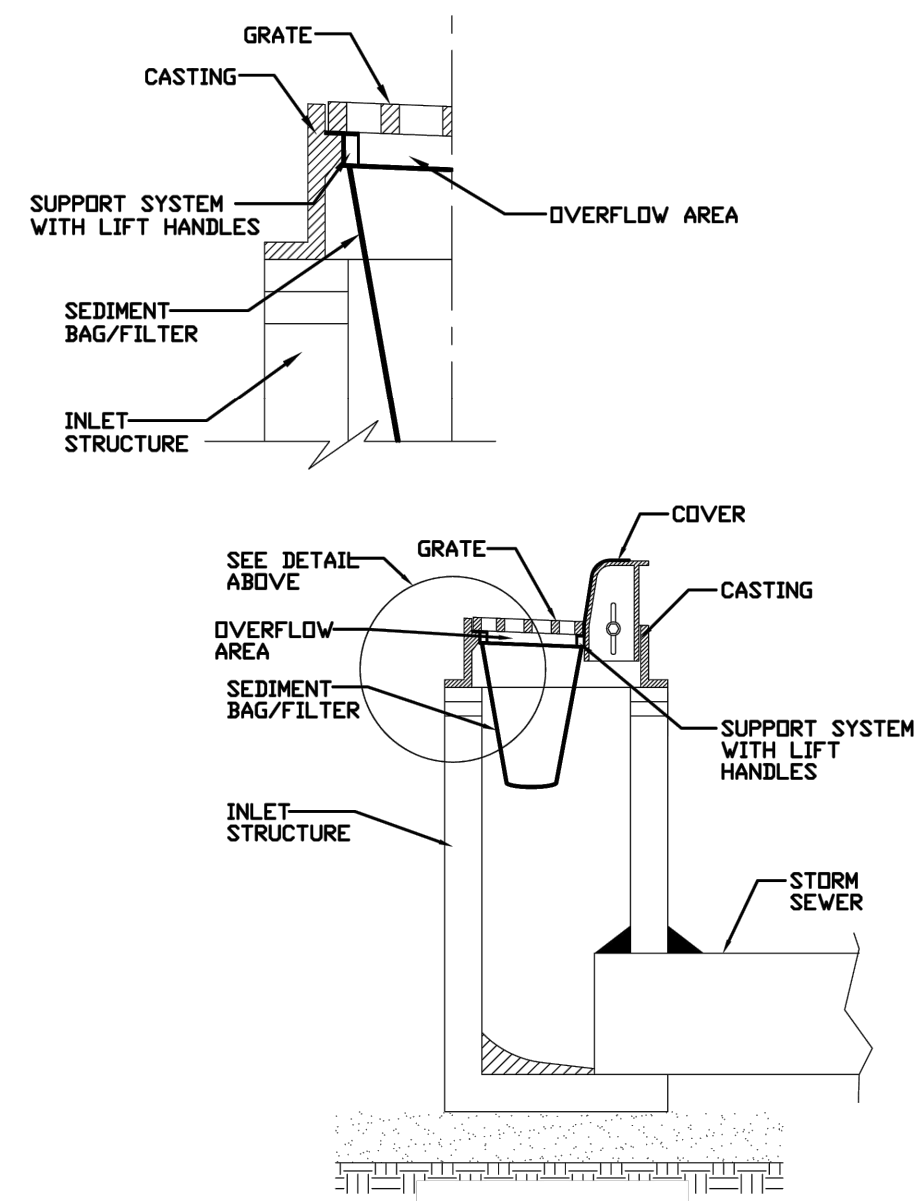
2) Water pipe described in (a) above shall be used for sewer service lines when minimum horizontal and vertical separation cannot be maintained.

c) Special Conditions - Alternate solutions shall be presented to the Agency when extreme topographical, geological or existing structural conditions make strict compliance with (a) and (b) above technically and economically impractical. Alternate solutions will be approved provided watertight construction structurally equivalent to approved water main material is proposed.

d) Water mains shall be separated from septic tanks, disposal fields and seepage beds by a minimum of 25 feet.

e) Water mains and water service lines shall be protected against entrance of hydrocarbons through diffusion through any material used in construction of the line.

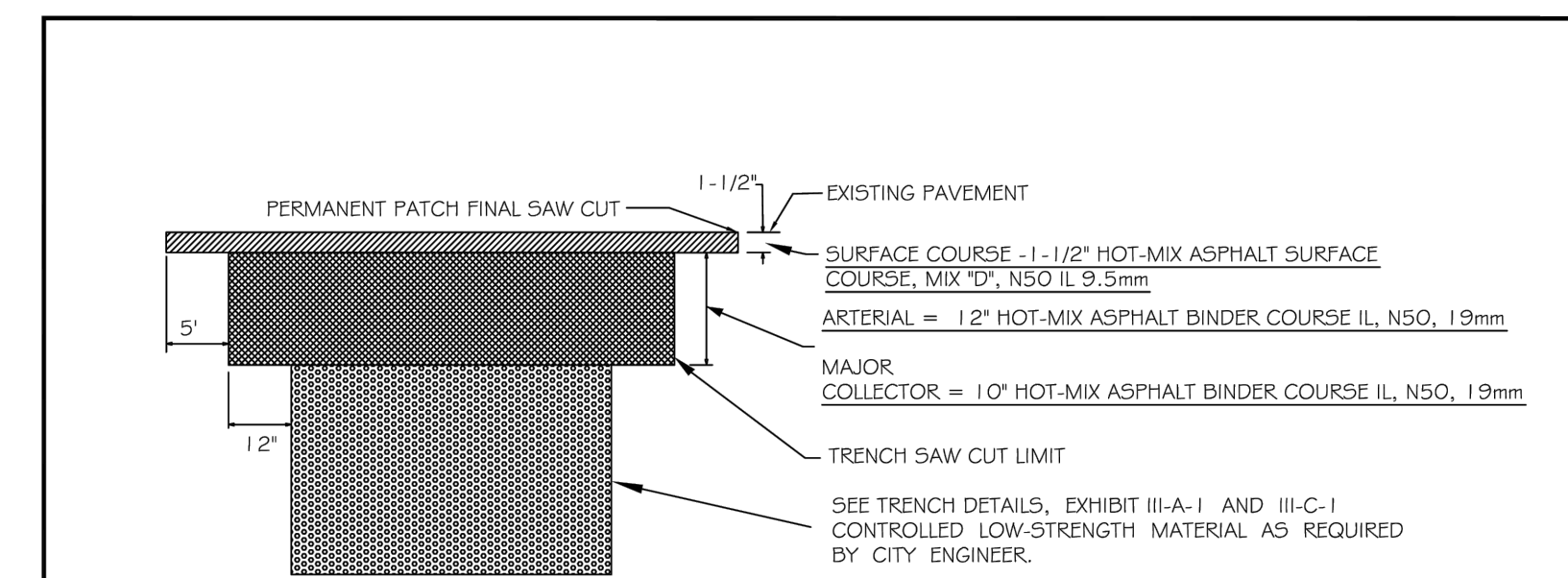
INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



REFERENCE Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

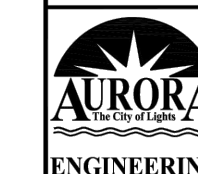


STANDARD DWG. NO.	IUM-561D
SHEET	1 OF 1
DATE	01-11-11



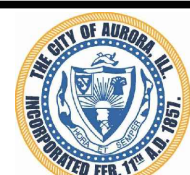
NOTES:

- A STEEL PLATE SHALL BE PLACED OVER ANY TRENCH REMAINING OPEN TO TRAFFIC PRIOR TO THE INSTALLATION OF THE HOT-MIX BINDER AND SURFACE COURSES.
- THE ENTIRE STREET FROM CURB TO CURB OR JOINT TO JOINT SHALL BE RESURFACED UNLESS EXPRESSLY PERMITTED BY THE CITY ENGINEER OR HIS DESIGNER. THE PERMANENT PATCH SHALL BE RILLED SQUARE OR RECTANGULAR AND SHALL ENCOMPASS THE TRENCH AREA WITH A MINIMUM OF FIVE FEET (5') BEYOND THE WIDEST OR LONGEST SAW CUT LIMITS OF THE TRENCH.
- THE EDGES OF THE EXISTING PAVEMENT SHALL BE SAW CUT AND PRIMED PRIOR TO THE PLACEMENT OF THE SURFACE COURSE.
- ANY SURFACE VARIATIONS 1/2" OR GREATER SHALL BE CORRECTED BY REMOVAL AND REPLACEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH IDOT SPECIFICATIONS.
- ALL MATERIAL SHALL MEET CURRENT IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



REVISIONS	
DATE: 04-18	BY: DGoewey

ARTERIAL AND MAJOR COLLECTOR PERMANENT PATCH DETAIL	
SCALE: NOT TO SCALE	CHECKED: DP
DATE: 1/04	DRAWN: NM
DRAWING NUMBER: EXHIBIT II-C-3	



CITY OF AURORA
ENGINEERING DIVISION
77 SOUTH BROADWAY
AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY: OSC	CHECKED BY: KTM	SCALE: N.T.S.
DRAWN BY: AHB	APPROVED BY: KTM	DATE: 4/2026

PROJECT

CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL

SHEET TITLE

STANDARD DETAILS

SHEET NUMBER

24

TOTAL SHEETS

25



1135 South Lake Street • Montgomery, Illinois 60538
 Engineering Inquiries (630) 301-6882
 Inspections (630) 301-6811 • FAX (630) 897-6094

Rev: 7/6/2023

GENERAL NOTES
FOR DEVELOPER CONSTRUCTION OF SANITARY SEWERS
FOX METRO WATER RECLAMATION DISTRICT

- All sanitary sewer construction shall be performed in accordance with "Fox Metro Water Reclamation District Sewer Use Ordinance No. 885", the "Standard Specifications for Water and Sewer Main Construction in Illinois", and "77 Illinois Administrative Code, part 890, Illinois Plumbing Code", latest edition.
- Final-approved set of plans must be kept on the job site. Failure to do so may result in a fine and can be considered as cause to stop the job.
- Contractors for all sanitary public sewer extension projects shall notify the District's Engineering Department twenty-four (24) hours before the start of work. Notification shall be done via telephone at (630) 301-6882 or by email at submittals@foxmetro.org.
- For service connection inspections, call 630-301-6811 by 3:00 p.m. the day before the requested inspection time.
- To prevent any possible infiltration, inflow, or debris from entering the downstream sanitary system, a factory-made plug shall be placed in the manhole by the contractor, as indicated on the final-approved plans. The placement of the plug(s) shall not interrupt the service of any user. This plug is to be removed only upon approval by the District or the city/village, and only after any construction drainage and/or debris has been properly removed. Under no circumstances is overland surface drainage allowed to drain into the sanitary system.
- All sanitary sewers shall be tested by Section 31-1.12 of the "Standard Specifications for Water and Sewer Main Construction in Illinois", including all manholes shall be vacuum tested (manhole testing will be in accordance with ASTM-1244-93 or in accordance with District requirements). In case of testing specification conflict, where deeper manholes are constructed, the more stringent requirement will apply.
- When connecting to an existing public sewer where a tee or wye is not provided, an "Inserta Tee" fitting must be installed. The minimum distance between fittings is four (4) feet from center to center.
- Installation of a tee/wye on an existing main is prohibited. The angle of any new connection shall not exceed 1/1 or 45 degrees.
- Only "Infi-Shield", "Adaptor-Seal", Cretex X-85, and "Wrap Seal" or approved equal chimney seals shall be installed on all manholes.
- Only PVC transition fittings shall be used in all new construction when joining PVC pipes that are damaged, disturbed during construction, or have different outside diameters. Refer to Fox Metro's "Manhole/Sewer Pipe Specifications" for information relating to repairs of mains damaged during construction.
- All existing sanitary interceptor (15" in diameter or greater) manhole frames located within any proposed development will be required to be adjusted to grade. Under no circumstances may the vertical height of the adjusting rings exceed eight (8) inches (two total). Extreme care should be taken when working near all sanitary manholes.
- Approved cast iron or concrete cleanout enclosures are required over the top of all cleanout covers in areas deemed necessary by the District.
- Ductile iron and cast-iron pipe are not allowed for the use of gravity sewers in the District.
- Landscaping within any District easement is prohibited without review and subsequent plan approval.
- District easements shall be graded so that the ground surface does not exceed a six (6) percent gradient in all directions.
- All building drains/sewers shall be overhead or "hung" through the basement wall of any new building.
- All sanitary risers shall be constructed to a depth of no greater than six (6) to seven (7) feet at the right of way/property line. If a conflict arises between a sanitary sewer and a water line, IEPA water & sewer separation requirements take precedence.
- Whether any grease removal system is newly constructed or "retrofitted" to an existing building, a minimum of 1% slope and 3.5' of cover for pipes are required.
- Minimum design slopes shall be 1.00% for six (6) inch building sewers, .40% for eight (8) inch sewers, and .28% for ten (10) inch sewers with all other design slopes conforming to the requirements of the "Standard Specifications for Water and Sewer Main Construction in Illinois".
- All manhole barrel sections (including those sections of existing manholes that have been exposed during construction) shall be required to be externally sealed with a "6" or "9" wide (min.) wrap meeting the requirements of ASTM C-877, **type II or *type III.
- All sags, leaks, pipe defects, or other related issues with any newly televised sanitary sewer shall be repaired by the contractor at the discretion of the District. Approval of repairs will need to be confirmed in writing by the appropriate municipality, or re-televised by the District. At the District's discretion, connection permits may be withheld if confirmation of completed repairs cannot be obtained.
- Any contractor, who consistently fails to perform by the District's standards and specifications as provided on the plans, may be prohibited from performing work in the District. The District reserves the right to revoke or disallow any contractor's bond.
- The District shall televise all sewers eight (8) inches in diameter or greater. To access each manhole, the developer is responsible for providing a smooth, level area of sufficient width along the sanitary sewer system.
- During televising, if any newly constructed public sewer requires "heavy cleaning", additional charges may be incurred by the developer.
- Full-sized cleanouts are required on all building sewers.



1135 South Lake Street • Montgomery, Illinois 60538
 Engineering Inquiries (630) 301-6882
 Inspections (630) 301-6811 • FAX (630) 897-6094

Rev: 7/6/2023

CONTRACTOR NOTICE
Developer Construction
Fox Metro Water Reclamation District
IMPORTANT – PLEASE READ!!

The following list represents costly problems or violations that commonly occur during or after construction. Our goal is to make all parties aware of these problems and hopefully reduce unnecessary delays, expenses, and fines.

To perform new construction or repair work on any private sanitary or water service, the following must be completed before work may commence:

- A \$25,000 license & permit bond made out to "Fox Metro Water Reclamation District" must be received and approved before any new construction or repair work. Please instruct your insurance company to call out the work to be performed as "sanitary sewer construction" or "sanitary sewer excavation".
 - A District permit for new construction or a repair permit needs to be issued.
 - An inspection is required by the District. To save a \$50 same-day inspection fee, please provide twenty-four (24) hour notice.
- All **public sanitary sewer construction** must have an IEPA permit **and** plan approval letter on file at the District before commencing construction. To verify this, please provide our office with a 48-hour start notification.
 - To prevent unnecessary water, mud, or aggregates from entering into the existing sanitary system, all new sanitary construction must be securely plugged and maintained by the contractor. These plug(s), located per the approved plan, may only be removed after permission has been obtained from the municipality or the District. All construction drainage must be properly removed from the new sanitary sewer system.
 - All newly proposed private building sewer construction must have a connection permit from the District. In addition, this work shall be inspected by the District. Please call (630) 301-6811 by 3:00 pm the day before the requested inspection time. No building sewers shall be installed until all proposed public sewers have been tested and approved by the District.

- All domestic water service installations (except for the Village of Oswego and the City of Yorkville) are to be inspected by the District. **Any final connection(s) to any building, made by any plumber or excavator, shall also be inspected by the District. Do not backfill this connection before a completed District inspection.**

- All sanitary manholes are to be sealed (exterior of chimney & barrels) and vacuum tested from the **top of the frame**. Any disruption of these manholes will break the seal(s), requiring a costly resealing and retesting process. Please stay clear of all manholes.

For questions regarding permitting and construction, call the District's engineering department at (630) 301-6882. For questions regarding inspections or to report violations, open manholes, or other construction issues, please call (630) 301-6811.

2



1135 South Lake Street • Montgomery, Illinois 60538
 Engineering Inquiries (630) 301-6882
 Inspections (630) 301-6811 • FAX (630) 897-6094

Rev: 7/6/2023

MANHOLE / SEWER PIPE MATERIALS AND INSTALLATION SPECIFICATIONS
FOR DEVELOPER CONSTRUCTION OF SANITARY SEWERS
FOX METRO WATER RECLAMATION DISTRICT

1. PIPE & FITTINGS

Pipes and fittings used in sanitary sewer construction shall be polyvinyl chloride (PVC), PVC pipe and fittings dated over one year old shall not be permitted for use. **No solvent-welded joints shall be allowed outside of the foundation wall of any building.**

The types of PVC pipe and fittings that shall be used in the District include:

- Poly Vinyl Chloride (PVC) Sewer Pipe and Fittings (ASTM – SDR series):** Conforming to ASTM Numbers D-1784 (cell classification), D-3034, D-3212 (joint spec), and F-477 (gaskets).
- Poly Vinyl Chloride (PVC) Pressure Rated Pipe and Fittings (ASTM - SDR series):** Conforming to ASTM Numbers D-1784 (cell classification), D-2241, D-3139 (joint spec), and F-477 (gaskets).
- Poly Vinyl Chloride (PVC) Pressure Rated Pipe and Fittings (AWWA DR-series):** Conforming to AWWA C-900 and ASTM Numbers D-1784 (cell classification), D-3139 (joint spec), F-477 & F-913 (gaskets).

All PVC plastic pipe and fittings shall have a cell classification of 12454 as defined in ASTM D-1784 and shall have minimum pipe stiffness as shown below in Table 1. The required Standard Dimension Ratio (SDR) or Dimension Ratio (DR) for PVC pipe and fittings shall be selected based on the depth of cover, as also shown in the table below:

Depth of Cover	Pipe Diameter	Minimum Thickness	National Standard	Minimum Pipe Stiffness
>0=3.5' - 20'	6" - 12"	SDR 26	ASTM D-3034	115
>20' - 25'	*6" - 12"	*SDR 21	*ASTM D-2241	*224

1

2. TESTING

Before final acceptance, all public sewers shall be tested in accordance with Section 31-1.12 of the "Standard Specifications for Water and Sewer Main Construction in Illinois".

The cost of all testing shall be borne by the developer or the contractor.

All pipelines shall be constructed of polyvinyl chloride (PVC) and shall be subject to air exfiltration, deflection, and Closed-Circuit Televising testing.

Air exfiltration testing shall be performed using the State of Illinois' guidelines and shall be directed and witnessed by an inspector for the municipality having first jurisdiction.

The deflection test shall be performed using an approved mandrel or other device permitted by the District. Testing shall occur no sooner than thirty (30) days after backfilling and shall consist of measuring the pipe for vertical ring deflection. Maximum ring deflection of the pipeline under load shall be limited to five (5) percent of the internal pipe diameter. All pipes exceeding this deflection shall be considered to have reached the limit of its serviceability and shall be re-laid or replaced by the contractor at their sole expense.

All sanitary sewer (public or private) with a diameter of eight (8) inches or greater shall be televised by the District. Said televising work is scheduled once all air & vacuum testing has been received by the District. Any defects in said sewer shall be excavated, then repaired at the contractor's or developer's expense. Caution should be taken before constructing roads, curbs, sidewalks, or any other infrastructure, whether it is above or below the ground surface. It is the responsibility of the utility contractor and the developer to contact the District before installing any of these utilities or infrastructure. Repairs to defective sanitary sewers shall be performed regardless of the status of other construction or extraneous expenses.

MANHOLE INSTALLATION AND FIELD TESTING

1. INSTALLATION

All manhole castings, adjusting rings, and manhole sections shall be set in butyl rope. The inside barrel section of the manhole, adjusting rings, and frame shall not be mortared. However, the area between the pipe and flow channel shall be filled with cement mortar to provide a flush smooth surface.

Each manhole cone and barrel section joint shall also be externally sealed with a "6" or "9" wide (min.) sealing band of rubber and mastic (see "REPAIRS" below). The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, **type II or *type III.

4

>26' & up	6" – 14"	DR-18	AWWA C-900	364
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*4/5/2023: Per a nation-wide shortage of D-2241 pvc, this might not be available. Where SDR 21 D-2241 is not available, DR 18 C-900 pipe shall be used at depths > 20'.

Fittings in sizes through fourteen (14) inches shall have elastomeric joints and minimum socket depths as specified in each respective section shown above. The District reserves the right to approve/reject all pipes and fittings on a case-by-case basis.

2. PIPE BEDDING MATERIAL, HAUNCHING, SUITABLE SOILS, AND TRENCH BACKFILL

Bedding stone shall be thoroughly haunched to provide uniform support under the new pipe. Said bedding material, as outlined in ASTM D-2321, shall be certified by the manufacturer and approved by the District before installation, and possess the following characteristics:

- Gradation: Shall meet the IDOT gradation of CA-7, Class 1A, or any material(s) pre-approved by the District during the plan-review process (* See just below).
- Description: Shall be crushed stone or crushed gravel, *containing no more than 5% fine material, as produced by mechanical means.
- Plasticity Index of Undisturbed Earth/Trench Base Soil: Shall meet a plasticity index of 0 to 4 percent as determined by the method given in AASHTO T 90.
- Specific Gravity of Undisturbed (dry) Trench Base Material: Shall have a specific gravity of greater than 2.45.
- Initial Trench Backfill Material: Please refer to the requirements of the municipality having first jurisdiction over all applicable above or below-grade infrastructure.

LABORATORY TEST

The District reserves the right to require a contractor to submit certified copies of all reports of tests conducted by an independent laboratory before the installation of PVC plastic pipe. Tests shall be conducted in accordance with the Standard Method of Test for "External Loading Properties of Plastic Pipe by Parallel-Plate Loading" per ASTM D2412.

PIPE INSTALLATION AND FIELD TESTING

1. INSTALLATION

Pipe connections to all manhole openings (casted or core-drilled) shall be constructed with a flexible rubber watertight connector conforming to ASTM C-923, "Standard Specifications for Resilient Connectors between Reinforced Concrete Manhole Structures and Pipes".

A maximum of eight (8) inches of adjusting rings (2 total rings) are allowed. The frame, chimney, and top "lip" of the cone section shall be required to be sealed with a chimney seal. Only "Infi-Shield", "Adaptor-Seal", Cretex X-85, or an approved equal will be allowed.

When a new manhole is approved to be constructed on an existing public sewer, only non-shear couplers shall be installed. This work shall be inspected by the municipality having first jurisdiction or by the District.

After any manhole is at finished grade, and with adjusting rings and chimney seals in place, each structure shall be vacuum tested from the top of the casting. Any lift holes shall be plugged with a non-shrinking grout. No grout shall be placed in any horizontal joint of any manhole for any reason. All pipes entering the manhole shall be plugged, taking care to securely brace the plugs from being drawn into the manhole. A vacuum of ten (10) inches of mercury shall be drawn and the vacuum pump shut off. With the valves closed, the time shall be measured for the vacuum to drop to nine (9) inches of mercury (Hg) for the following time periods for each size manhole:

*Forty-eight inches (48") in diameter - sixty (60) seconds

*Sixty inches (60") in diameter - seventy-five (75) seconds

*Manhole testing will be in accordance with ASTM-1244-93 or in accordance with District requirements. In case of conflict, the more stringent requirement will apply (e.g. where deeper manholes are constructed). Should the manhole fail the vacuum test, the structure shall be disassembled to a point that said leak can be repaired with butyl rope. After the repair is complete, the manhole shall be re-tested until a satisfactory result is obtained.

REPAIRS & REHABILITATION OF EXISTING PIPES AND MANHOLES

1. PIPES

Pipe connections of those made from dissimilar materials or of pvc with differing outside diameters where no hub exists shall be made with a non-shear coupling.

Existing non-pvc building sewers or "stubs" shall not be used in connection with new buildings where a District connection permit is requested. In such cases, said building sewer or "stub" will either need to be removed to within one foot (1') of the public sewer and then replaced with appropriate pvc material or lined with a cured-in-place pipe (CIPP) meeting the requirements of ASTM F1216, D5813, D790, and D2990. Said CIPP shall be installed using the inversion method only, utilizing hot water or steam to cure all liners.

5

If the invert of any overhead sewer exceeds two (2) feet above the building's footing, plate compaction of the CA-7 Class 1A aggregate shall be required in twelve (12) inch lifts.

Trench widths should be stable or supported, and provide a width sufficient, but no greater than necessary to ensure working room to properly place haunching and other embedment materials. The minimum trench width shall be 32" plus the outside diameter of the pipe and the maximum trench width shall be 48" plus the outside diameter of the pipe.

Pipe sizes shall be a minimum of eight (8) inches for public sewers and six (6) inches for building sewers.

Pipes shall be laid in a manner that provides uniform support over the entire length. No blocking of any kind shall be used to adjust the pipe to grade except when embedment concrete is used. The bedding shall be a minimum of six (6) inches in depth. The bedding material shall be placed and worked all around the pipe by hand (haunched) to provide uniform support, then around and over the crown of the pipe by a minimum of twelve inches (12"). The granular embedment material shall be placed and consolidated along the full width of the trench. The contractor shall be required to install the pipe in such a manner that the diametric deflection of the pipe shall not exceed five (5) percent.

PVC transition fittings shall be used in all new construction when joining PVC pipes of different outside dimensions, or for pvc to pvc connections, where no necessary hub/and or bell exists.

All new construction service connections to new mains shall be with a tee/wye fitting with a six (6) inch branch. Where no tee/wye exists, an Inserta Tee brand fitting shall be required. All connections to the main shall be constructed at a (max.) forty-five (45) degree angle or 1/1 rise/run pitch.

Cast iron enclosures shall be required for all sanitary sewer service cleanouts located in any paved surface or in any location where cleanouts may be damaged by heavy equipment.

All cleanouts shall be full-sized, be located 5' from the building's foundation, and spaced no greater than one hundred (100) feet apart.

Either 4" X 6" rubber or non-shear couplings shall be used to connect the building drain to the building sewer. If using a rubber fitting, the four-inch pipe shall be inserted six (6) to twelve (12) inches inside of the six-inch building sewer.

Whether any grease removal system (GRS) is newly constructed or retrofitted to an existing building, all District guidelines about the minimum slope and cover depth for sanitary construction shall be strictly adhered to.

All building drains/sewers shall be overhead or "hung" through the wall of any basement.

3

Building sewers shall be permanently abandoned using one of the following two methods.

- Removed to within one (1) foot of the public sewer and plugged using a mechanical plug and mortar. This is the preferred method. If this is not feasible, see item two below.
- The building sewer connection shall be sealed within the public sewer with a four (4) foot minimum length cured-in-place pipe (C.I.P.P.) liner with hydrophobic gaskets.

Where a **newly constructed public sewer** needs to be repaired due to damage having occurred during construction, only pvc transition fittings shall be required (no non-shear couplings). Only repair clamps conforming to ANSI/NSF-61 shall be allowed. When the damage occurs within thirty (30) feet of a manhole, the contractor shall remove and replace the damaged main from the nearest joint to the manhole.

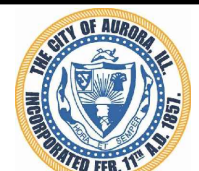
2. MANHOLES

Each manhole, which has been disturbed around the full circumference of the structure, including being raised or lowered, should be cleaned and dried before re-sealing. Each cone and barrel section joint shall require a double-layer of butyl rope and also be externally sealed with a "6" or "9" wide (min.) sealing band of rubber and mastic. The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, **type II or *type III.

A maximum of eight (8) inches of adjusting rings (2 total rings) is allowed in any repair. The frame and chimney of the cone section shall be required to be sealed with a chimney seal. Only "Infi-Shield", "Adaptor-Seal", Cretex X-85, or approved equal will be allowed.

6

PLOT DATE: 4/27/2026 11:39 AM LAST SAVED BY: HermandeaA FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2026 WATER MAIN\HAZEL CSO SS AND WM\DRAWINGS\CSO DETAILS.DWG



CITY OF AURORA
 ENGINEERING DIVISION
 77 SOUTH BROADWAY
 AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY:	OSC	CHECKED BY:	KTM	SCALE:	N.T.S.
DRAWN BY:	AHB	APPROVED BY:	KTM	DATE:	4/2026

PROJECT

CSO PHASE II SEWER SEPARATION AND WATERMAIN INSTALL

SHEET NUMBER

25

SHEET TITLE

STANDARD DETAILS

TOTAL SHEETS

25