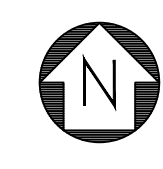


CITY OF JOLIET, ILLINOIS

KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO. 2848-0125



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18	DELLMAR STREET STA. 158+00 TO STA. 163+50 PLAN AND PROFILE
19	DELLMAR STREET STA. 163+50 TO STA. 168+75 PLAN AND PROFILE
20	CLARA AVENUE STA. 179+00 TO STA. 183+00 PLAN AND PROFILE
21	CONSTRUCTION DETAILS
22	CONSTRUCTION DETAILS
23	CONSTRUCTION DETAILS

VICINITY MAP

JULI.E DESIGN STAGE REQUEST
 EXISTING UTILITIES: DIG NO. A22322189
 WHERE THE DRAWINGS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES. THE INFORMATION IS INCLUDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. THE UTILITY LOCATIONS WERE DETERMINED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER WITH RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS REGARDING THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION REGARDING THE LOCATION OF THE UTILITY FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THE FACILITIES.

Michael Lemay
PROJECT MANAGER

Abigail W. Meade
PROJECT ENGINEER

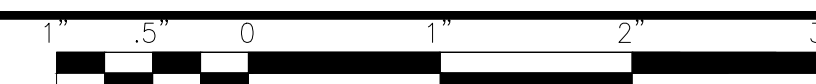


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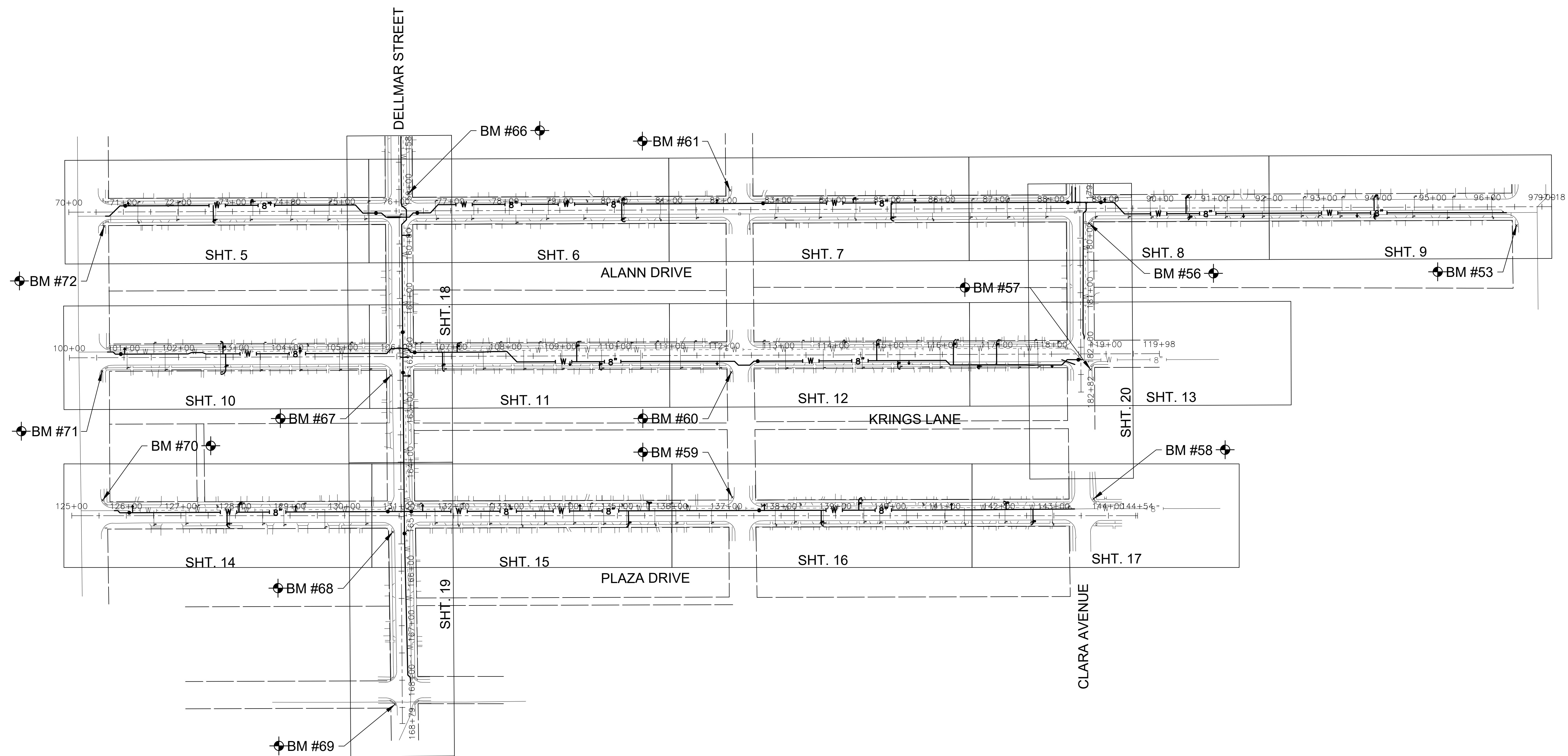
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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

SHEET KEY	
SCALE: AS NOTED	PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	2
CHECKED - MJK		
DATE - 10/10/2024		

FINAL DESIGN
FOR BIDDING

LEGEND

	SANITARY SEWER OR SERVICE		PROPOSED
	STORM SEWER OR SERVICE		
	WATER MAIN OR SERVICE		
	FORCE MAIN		
	MANHOLE		
	CATCH BASIN		
	INLET		
	DRYWELL		
	CULVERT END SECTION		
	FIRE HYDRANT W/ AUX. VALVE, VALVE BOX, AND COVER		
	WATER VALVE W/ BOX AND COVER		
	WATER VALVE VAULT		
	WATER SERVICE BOX OR CURB STOP		
	WATER TEE FITTING		
	WATER SLEEVE FITTING		
	WATER 90° FITTING		
	WATER 45° FITTING		
	WATER REDUCER FITTING		
	CAP FITTING		
	WATER CROSS FITTING		
	WATER METER		
	CLEAN OUT		
	SEPTIC VENT		
	TO BE ABANDONED AND/OR REMOVED		
	STRUCTURE TO BE ABANDONED		
	GAS LINE		
	GAS VALVE W/ BOX AND COVER		
	GAS VALVE VAULT		
	GAS METER		
	GAS RISER		
	GAS SERVICE VALVE		
	TELEPHONE CABLE		
	TELEPHONE DUCT		
	TELEPHONE VAULT		
	TELEPHONE RISER		
	CABLE TELEVISION (BURIED)		
	CABLE T.V. RISER		
	CABLE T.V. VAULT		
	UNDERGROUND ELECTRICAL		

LEGEND

	ELECTRIC METER		PROPOSED
	PAD MOUNTED TRANSFORMER		
	ELECTRIC VAULT		
	JUNCTION BOX		
	UTILITY POLE		
	UTILITY POLE w/ GUY ANCHOR		
	UTILITY POLE w/ LIGHT		
	LIGHT STANDARD		
	MAIL BOX		
	STREET SIGN		
	RAILROAD SIGNAL		
	TRAFFIC SIGNAL CONTROLLER		
	TRAFFIC SIGNAL POST W/ SIGNAL HEAD		
	HANDHOLE		
	DECIDUOUS TREE (W/ TRUNK INCH DIA.)		
	CONIFEROUS TREE (W/ HEIGHT)		
	DECIDUOUS BUSH		
	CONIFEROUS BUSH		
	DEFINING EDGE OF BRUSH OR FORESTED AREA		
	FENCE		
	GUARD RAIL		
	CULVERT (CMP UNLESS NOTED)		
	DITCH		
	RIGHT OF WAY (ROW)		
	RIGHT OF WAY MONUMENT		
	UNFENCED PROPERTY LINE		
	IRON PIPE (PROPERTY CORNER)		
	CENTER LINE		
	PROPOSED EL./EXISTING EL. and STATION		
	SOIL BORING AND NUMBER		
	BENCH MARK		
	SURVEY CONTROL POINT		
	OVERHEAD ELECTRICAL		
	SUMMIT		
	RIPRAP		
	ROADWAY DITCH FLOW		
	SWALE		

BENCHMARKS (NAVD 88 DATUM)

B.M. # 53		RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE AT THE SOUTHEAST CORNER OF ALANN DRIVE AND INGALLS AVENUE ELEV. = 662.171
B.M. # 56		RAILROAD SPIKE SET IN SOUTHWEST FACE POWER POLE AT THE NORTHEAST CORNER OF ALANN DRIVE AND CLARA AVENUE ELEV. = 662.071
B.M. # 57		LARGE PK NAIL SET IN SOUTHWEST FACE POWER POLE AT THE NORTHEAST CORNER OF KRINGS LANE AND CLARA AVENUE ELEV. = 664.541
B.M. # 58		RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE WITH LIGHT AT THE NORTHWEST CORNER OF PLAZA DRIVE AND CLARA AVENUE ELEV. = 664.701
B.M. # 59		PK NAIL SET IN NORTH FACE POWER POLE AT THE NORTHWEST CORNER OF VERNON AVENUE AND PLAZA DRIVE ELEV. = 662.981
B.M. # 60		RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE AT THE SOUTHEAST CORNER OF VERNON AVENUE AND KRINGS LANE ELEV. = 662.711
B.M. # 61		RAILROAD SPIKE SET IN NORTHEAST FACE POWER POLE AT THE SOUTHWEST CORNER OF ALANN DRIVE AND KRINGS LANE ELEV. = 660.631
B.M. # 66		RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE AT THE NORTHWEST CORNER OF ALLAN DRIVE AND DELLMAR AVENUE ELEV. = 659.951
B.M. # 67		LARGE PL NAIL SET IN NORTHWEST FACE POWER POLE AT THE SOUTHWEST CORNER OF DELLMAR AVENUE AND KRINGS LANE ELEV. = 661.421
B.M. # 68		RAILROAD SPIKE SET IN NORTHWEST FACE POWER POLE AT THE SOUTHEAST CORNER OF DELLMAR AVENUE AND PLAZA DRIVE ELEV. = 662.141
B.M. # 70		LARGE PK NAIL SET IN SOUTHEAST FACE POWER POLE AT THE SOUTHWEST CORNER OF BLACK ROAD AND PLAZA DRIVE ELEV. = 663.671
B.M. # 71		LARGE PK NAIL SET IN SOUTH FACE POWER POLE AT THE NORTHEAST CORNER OF KRINGS LANE AND BLACK ROAD ELEV. = 663.651
B.M. # 72		RAILROAD SPIKE SET IN SOUTHWEST FACE POWER POLE AT THE SOUTHEAST CORNER OF ALANN DRIVE AND BLACK ROAD ELEV. = 662.611

ABBREVIATIONS

CONC	PORTLAND CEMENT CONCRETE	C&G	CURB AND GUTTER	X=	EXTERNAL DISTANCE OF VERTICAL CURVE
CL	CENTERLINE	BC	BACK OF CURB	PC	POINT OF CURVATURE
BIT	BITUMINOUS PAVEMENT	EOP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION
GR	GRAVEL	PL	PROPERTY LINE	PT	POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	ROW	RIGHT OF WAY	POT	POINT ON TANGENT
FH	FIRE HYDRANT	FL	FLOW LINE	PCC	POINT OF COMPOUND CURVATURE
CI	CAST IRON	TF	TOP OF FRAME	PRC	POINT OF REVERSE CURVE
DI	DUCTILE IRON	TC	TOP OF CURB OR CONCRETE	VC	VERTICAL CURVE
F-F	FACE-TO-FACE	R	STRUCTURE TO BE RECONSTRUCTED	N&W	NAIL AND WASHER
E-E	EDGE-TO-EDGE	A	STRUCTURE TO BE ADJUSTED	TCE	TEMPORARY CONSTRUCTION EASEMENT
B-B	BACK-TO-BACK	▲	CENTRAL ANGLE	SS	STORM SEWER
BM	BENCH MARK	D=	DEGREE OF CURVE	SAN SEW	SANITARY SEWER
INV EL	INVERT ELEVATION	T=	TANGENT LENGTH	PROP	PROPOSED
CL EL	CENTERLINE ELEVATION	L=	CURVE LENGTH	STN STL	STAINLESS STEEL
P	POINT	R=	RADIUS OF CURVE	RJT	RESTRAINED JOINT
G	GUTTER	E=	EXTERNAL DISTANCE	HDD	HORIZONTAL DIRECTIONALLY DRILLED
C	CURB	SE=	SUPERELEVATION (FT. PER FT. OF WIDTH)	LF	LINEAR FEET

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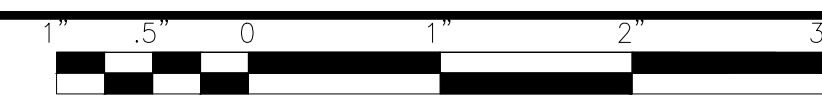


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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

LEGEND BENCHMARKS ABBREVIATIONS		DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
SCALE: AS NOTED	PROJECT NO: 221587.40	DRAWN - JJS	23	3
		CHECKED - MJK		
		DATE - 10/10/2024		

FINAL DESIGN
FOR BIDDING



CITY OF JOLIET WATER SYSTEM GENERAL NOTES

SUMMARY OF QUANTITIES

- VERIFY LOCATION, SIZE, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF THE WATER MAIN. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND LOCATE UTILITIES PRIOR TO ANY WORK.
- WHENEVER IT BECOMES NECESSARY TO RELOCATE UNDERGROUND GAS MAINS, TELEPHONE CONDUIT, OR ELECTRICAL LINES OR SUPPORT OR RELOCATE UTILITY POLES, THE UTILITY COMPANY INVOLVED WILL MAKE SUCH RELOCATION OR PROVIDE POLE SUPPORT. NOTIFY THE UTILITY COMPANY PROMPTLY. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.
- WHEREVER OBSTRUCTIONS NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING THE PROGRESS OF THE WORK AND INTERFERE TO SUCH AN EXTENT THAT ALTERATIONS TO THE DRAWINGS ARE REQUIRED, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY CHANGES.
- HORIZONTAL AND VERTICAL SEPARATION OF WATER MAINS AND SEWER LINES SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".
- PROVIDE 48 HOURS ADVANCE NOTICE TO THE CITY WHEN CONNECTION TO AN EXISTING WATER MAIN WILL BE MADE. COORDINATE SHUTDOWN OF EXISTING WATER MAINS WHEN REQUIRED WITH THE CITY. SCHEDULE THE WORK TO MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS. PROVIDE WRITTEN NOTIFICATION OF SHUTDOWNS TO WATER USERS AFFECTED 24 HOURS IN ADVANCE.
- NOTIFY THE CITY'S PUBLIC UTILITIES DEPARTMENT IMMEDIATELY IF EXISTING LEAD WATER SERVICES ARE DISCOVERED.
- PROVIDE PROPERTY OWNERS ADVANCE NOTICE OF CONSTRUCTION ACTIVITIES THAT WILL RESTRICT THE USE OF THEIR DRIVEWAYS.
- DO NOT STORE BEDDING AND BACKFILL MATERIALS, PIPES, FITTINGS, VAULTS, OR OTHER MATERIALS IN AREAS THAT WILL OBSTRUCT SIGHT LINES FOR STREETS AND DRIVEWAYS.
- ALL PROPOSED WATER MAIN AND SERVICES UNDER AND WITHIN 2' OF PAVEMENT OR SIDEWALK SHALL BE BACKFILLED WITH TRENCH BACKFILL WHICH SHALL BE CRUSHED STONE, GRADATION CA 6 OR CA 7.
- INSTALL NEW WATER MAIN WITH A MINIMUM OF 5' COVER BELOW EXISTING OR PROPOSED GROUND SURFACE UNLESS GREATER DEPTH IS REQUIRED TO AVOID EXISTING UTILITIES OR WHERE INDICATED ON THE DRAWINGS.
- PROVIDE COMPRESSION TYPE FIRE HYDRANTS WITH A 5/4-INCH MINIMUM SIZE MAIN VALVE ASSEMBLY, O-RING SEALS, TWO 2 1/2-INCH HOSE NOZZLES, AND A 4 1/2-INCH PUMPER NOZZLE WITH NATIONAL STANDARD THREADS, A NATIONAL STANDARD OPERATING NUT, AND AN ABOVE GROUND BREAK FLANGE. COLOR FOR HYDRANTS ON POTABLE DISTRIBUTION MAINS SHALL BE RED, HYDRANTS ON RAW WATER MAINS SHALL BE GREEN. COLOR FOR PRIVATE SYSTEM HYDRANTS SHALL BE YELLOW. ACCEPTABLE MANUFACTURERS ARE CLOW MEDALLION, EJ 5BR250, OR MUELLER CENTURION A423.
- PROVIDE A TEMPORARY COVERING OVER ALL NEW FIRE HYDRANTS UNTIL ALL NEW WATER MAINS ARE PUT INTO SERVICE AND NEW FIRE HYDRANTS ARE OPERABLE.
- GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA C515 (DUCTILE IRON BODY), BRONZE FITTED, RESILIENT WEDGE AND SEAT TYPE WITH NON-RISING STEM AND O-RING PACKING. ALL INTERNAL AND EXTERNAL SURFACES SHALL HAVE A FUSION BONDED EPOXY COATING. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.
- BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH AWWA C504 FOR PRESSURE CLASS 150B, CAST IRON BODY, RUBBER-SEATED, TIGHT CLOSING TYPE SUITABLE FOR BURIED SERVICE. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.
- LOCATE PRESSURE CONNECTIONS, IF INDICATED ON THE DRAWINGS OR WHEN DIRECTED BY THE ENGINEER, A MINIMUM OF 2' FROM ANY EXISTING REPAIR SLEEVES OR PIPE JOINTS.
- THE CITY OF JOLIET WATER DEPARTMENT SHALL BE RESPONSIBLE FOR COMPLETING ALL TAPS TO EXISTING WATER MAINS. CONTRACTOR WILL BE RESPONSIBLE FOR CALLING 815-724-4230 TO SCHEDULE AN APPOINTMENT WITH THE CITY WATER DEPARTMENT. APPOINTMENTS ARE AVAILABLE ON TUESDAYS AND THURSDAYS.
- SUCCESSFULLY TEST, DISINFECT, AND FLUSH WATER MAIN, AND OBTAIN ACCEPTANCE OF THE WATER MAIN BY THE CITY OF JOLIET, PRIOR TO MAKING WATER SERVICE CONNECTIONS. FLUSH PIPELINES TO OBTAIN A VELOCITY OF 2.5 FT/S PER AWWA STANDARD C651.

- CITY OF JOLIET WILL ALLOW TESTING NEW WATER MAIN AGAINST EXISTING VALVES OR AGAINST A CAP WHERE A NEW VALVE IS NOT PRESENT.
- USE MECHANICAL JOINT FITTINGS TO PLUG/CAP EXISTING WATER MAINS TO REMAIN IN SERVICE AND FOR EXISTING WATER MAINS TO BE ABANDONED. PLUGS/CAPS ON WATER MAIN TO REMAIN IN SERVICE SHALL INCLUDE AN ADEQUATELY SIZED CAST-IN-PLACE CONCRETE THRUST BLOCK.
- AS-BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS THE PROJECT IS COMPLETED. ANY CHANGE IN THE LENGTH, LOCATION, OR ALIGNMENT SHALL BE SHOWN IN RED.
- EROSION CONTROL WILL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AS CONTAINED IN IEPA/WPC/87-012 OR CURRENT EDITION.
- REPLACE ALL CONCRETE SIDEWALKS DISTURBED BY CONSTRUCTION TO THE NEAREST CONSTRUCTION JOINT. A MAXIMUM LENGTH OF TEN LINEAL FEET PER CROSSING WILL BE UTILIZED FOR PAY QUANTITY CALCULATIONS.
- PAVEMENT RESTORATION WILL BE MEASURED IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS. ALL AREAS DISTURBED WILL BE REPLACED, BUT THE MAXIMUM ALLOWABLE WIDTHS USED FOR PAY QUANTITY CALCULATIONS WILL BE 6 FEET CENTERED ON THE PIPE. IF THE CONTRACTOR RELOCATES THE TRENCH AWAY FROM THE CURB AND GUTTER, THE PAVEMENT PATCH WILL EXTEND FROM THE SAWCUT IN THE EXISTING PAVEMENT TO THE FACE OF THE GUTTER AND THE MAXIMUM ALLOWABLE WIDTH OF 6 FEET WILL BE USED FOR PAY QUANTITY CALCULATIONS.
 - 2.5" BINDER, 1.5" SURFACE FOR ALANN DRIVE, KRINGS LANE, PLAZA DRIVE, DELLMAR STREET, VERNON AVE, CLARA AVE
 - 10" BINDER, 2" SURFACE FOR BLACK RD AND INGALLS AVE
- IT SHALL BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE EXCLUSIVE DUTY AND RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION. IT SHALL EXCLUSIVELY BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO INVESTIGATE AND ASCERTAIN THE CURRENT PHYSICAL STATE AND OPERATIONAL STATUS OF THE CITY'S WATER SUPPLY SYSTEM AND THE CITY'S SANITARY SEWER SYSTEM, INCLUDING WHETHER A WATER MAIN OR OTHER VESSEL IS OPERATIONAL, CONTAINS WATER, IS PRESSURIZED, OR IS OTHERWISE SAFE TO ALTER. ANY INFORMATION PROVIDED BY THE CITY, OR ITS EMPLOYEES AND CONSULTANTS, REGARDING THE STATE OF ITS WATER SUPPLY AND SANITARY SEWER SYSTEMS IS PROVIDED AS A COURTESY TO THE CONTRACTOR BUT IS NOT WARRANTED TO BE TRUE AND MAY NOT BE RELIED ON BY THE CONTRACTOR IN SATISFACTION OF, OR TO DIMINISH, ITS EXCLUSIVE DUTY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS AND ITS EXCLUSIVE RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION.
- CONTRACTOR TO COMPLY WITH PROJECT MILESTONES AND REQUIREMENTS SPECIFIED IN SUPPLEMENTARY CONDITIONS AND SECTION 01 31 13.16
- CONTRACTOR TO DISTRIBUTE DOOR HANGERS AT VARIOUS MILESTONES DURING THE PROJECT. DOOR HANGERS WILL BE PROVIDED BY THE OWNER. DOOR HANGERS MUST BE DISTRIBUTED AT THE FOLLOWING MILESTONES:
 - ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
 - 48 HOURS IN ADVANCE OF WATER MAIN SHUTDOWNS TO ALL AFFECTED STRUCTURES (THE SAME STRUCTURE MAY RECEIVE MORE THAN ONE DOOR HANGER).
 - 48 HOURS IN ADVANCE OF WATER SERVICE LINE REPLACEMENTS.
 - ONE WEEK PRIOR TO RESTORATION ACTIVITIES ON ANY STREET.
- CONTRACTOR SHALL COORDINATE WITH CITY ARBORIST IN AREAS WHERE THE WATER MAIN IS TO BE INSTALLED WITH TREE TUNNELING OR WHERE TREE REMOVAL IS NECESSARY FOR THE INSTALLATION OF THE WATER MAIN.

No.	PAY ITEM	UNIT	QUANTITY
PART A -WATER MAIN IMPROVEMENTS			
1	PRECONSTRUCTION VIDEO RECORDING	LSUM	1
2	TRAFFIC CONTROL AND PROTECTION	LSUM	1
3	GRANULAR TRENCH BACKFILL	CUYD	5,000
4	WATER MAIN (OPEN CUT), 8-INCH	FOOT	6,751
5	WATER MAIN (OPEN CUT), 6-INCH DI	FOOT	246
6	WATER MAIN (OPEN CUT), 8-INCH DI	FOOT	682
7	CASING PIPE (TUNNELING UNDER SEWER), 16-INCH	FOOT	23
8	MISCELLANEOUS FITTINGS	POUND	8,000
9	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	EACH	3
10	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	EACH	7
11	GATE VALVE, 8-INCH	EACH	19
12	VALVE VAULT, 4-FOOT DIAMETER	EACH	19
13	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	VFT	3
14	FIRE HYDRANT	EACH	22
15	FIRE HYDRANT BARREL EXTENSION	VFT	3
16	LINE STOP, 6-INCH	EACH	1
17	LINE STOP, 8-INCH	EACH	1
18	SANITARY SEWER REMOVAL AND REPLACEMENT, 10-INCH	FOOT	15
19	STORM SEWER REMOVAL AND REPLACEMENT, 12-INCH	FOOT	60
20	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
21	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	EACH	165
22	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	EACH	1
23	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2-INCH	EACH	1
24	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	FOOT	1,440
25	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	FOOT	30
26	WATER SERVICE LINE TYPE K - OPEN CUT, 2-INCH	FOOT	30
27	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	FOOT	3,082
28	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	FOOT	30
29	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 2-INCH	FOOT	30
30	WATER SERVICE CASING PIPE	FOOT	320
31	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	FOOT	160
32	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	44
33	EXPLORATORY EXCAVATION	EACH	8
34	INLET PROTECTION FILTER	EACH	70
35	RESTORATION OF LAWNS AND PARKWAYS	SQYD	900
36	TEMPORARY HOT-MIX ASPHALT PAVEMENT	SQYD	100
37	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE	SQYD	5,800
38	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 10-INCH BINDER 2-INCH SURFACE	SQYD	50
39	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	SQYD	50
40	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SQYD	100
41	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,200
42	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	10,200
43	DETECTABLE WARNINGS	SQFT	10
44	PAVEMENT MARKING - LINE, 4-INCH (THERMOPLASTIC)	FOOT	20
45	PAVEMENT MARKING - LINE, 6-INCH (THERMOPLASTIC)	FOOT	340
46	PAVEMENT MARKING - LINE, 12-INCH (THERMOPLASTIC)	FOOT	20
47	PAVEMENT MARKING - LINE, 24-INCH (THERMOPLASTIC)	FOOT	90
48	REMOVAL AND REPLACEMENT OF SIGNS	EACH	13
49	TREE ROOT PRUNING	EACH	16
50	TREE TRIMMING	LSUM	1
51	TREE REMOVAL AND REPLACEMENT, 6-INCH THROUGH 12-INCH	EACH	1
52	TREE REMOVAL AND REPLACEMENT, OVER 12 INCH	EACH	1
53	DUST CONTROL	DAY	70
54	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	95
55	SOIL TESTS FOR CONTAMINANTS	EACH	14
56	CONTAMINATED WASTE DISPOSAL	CUYD	95

P:\JOL\221587-2024 WATER MAIN SURV\CAD\KRINGS ACRES PHASE 2\01_CIVIL_3D\01_SHTS--PLANS\221587--KRINGS ACRES PHASE 2B_COVER_GEN_DET.DWG GENERAL NOTES AND SOO
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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

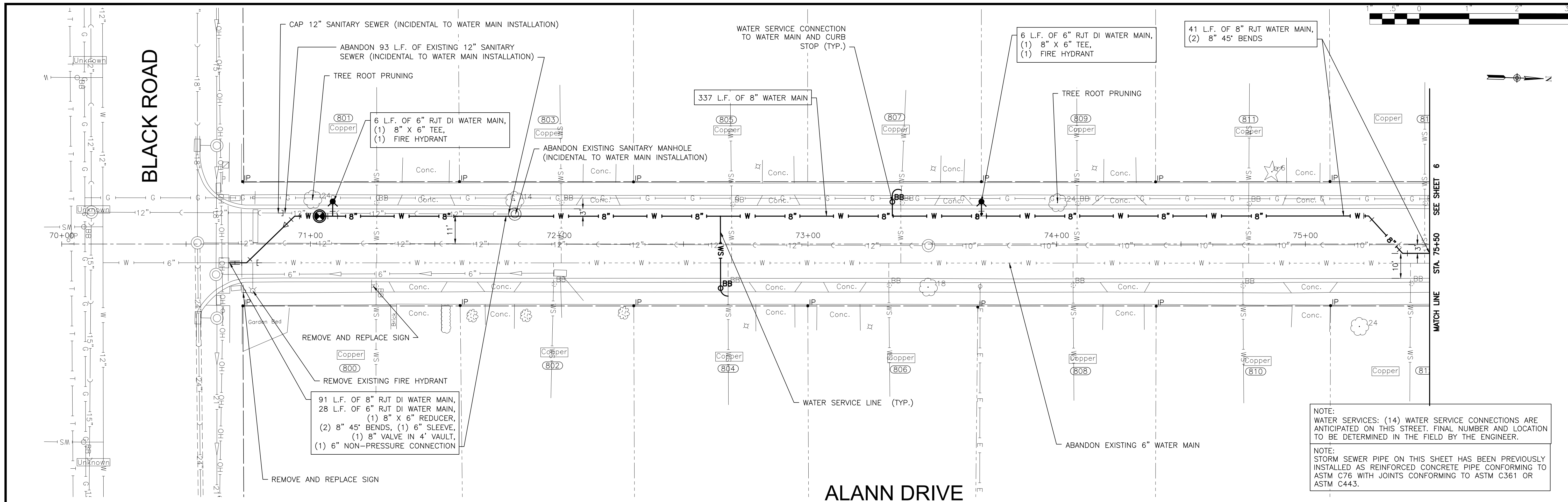
GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: AS NOTED PROJECT NO: 221587.40

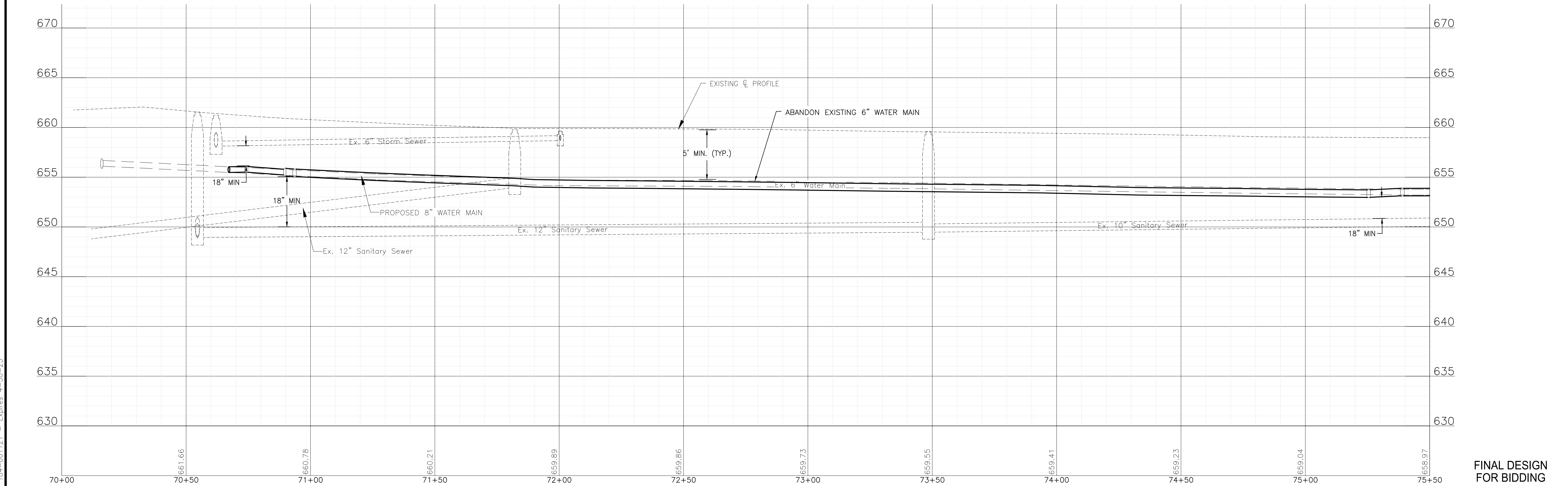
FINAL DESIGN FOR BIDDING

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	4
CHECKED - MJK		
DATE - 10/10/2024		

P:\JOLIC\221587-2024 WATER MAIN SURV\CAD\KRINGS ACRES PHASE 2\01_CIVIL_3D\01_SHTS-PLANS\221587-KRINGS ACRES PH2-DESIGN_SHEETS.DWG (S) 70+00.00
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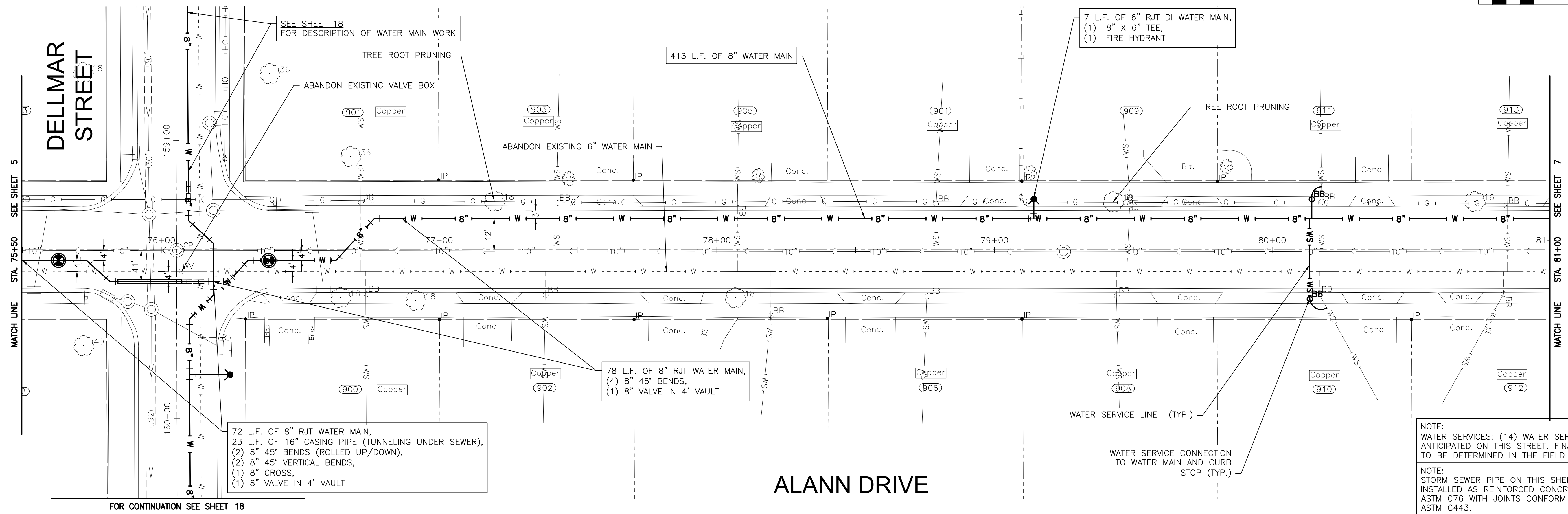
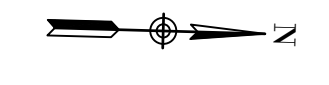
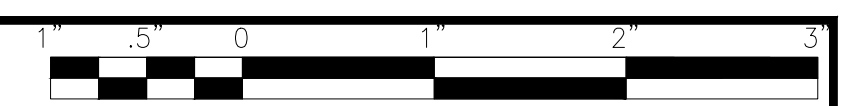
NOTE:
 WATER SERVICES: (14) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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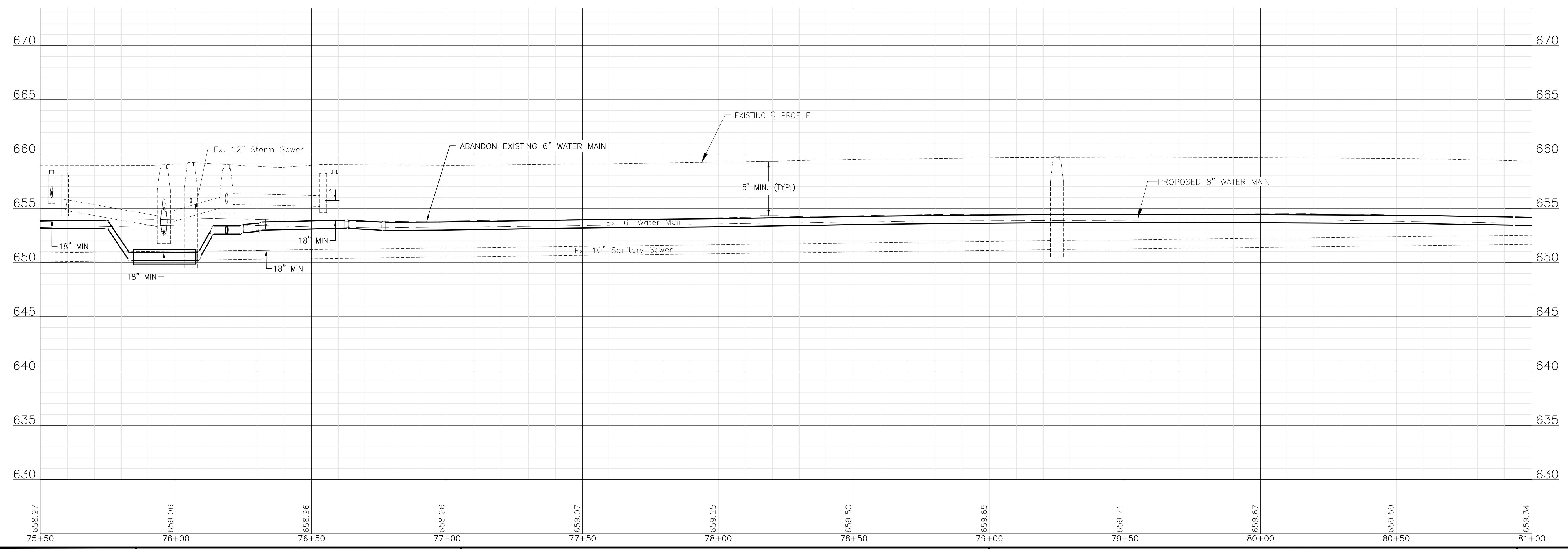
CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

ALANN DRIVE STA. 70+00 TO STA. 75+50 PLAN AND PROFILE		DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 221587.40	DRAWN - JJS	23	5
		CHECKED - MJK		
		DATE - 10/10/2024		



NOTE:
WATER SERVICES: (14) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



P:\JOLI\221587-2024 WATER MAIN SURV\CAD\KRINGS ACRES PHASE 2\01_CIVIL_3D\01_SHTS-PLANS\221587-KRINGS ACRES PH2-DESIGN_SHEETS.DWG 75+50.00
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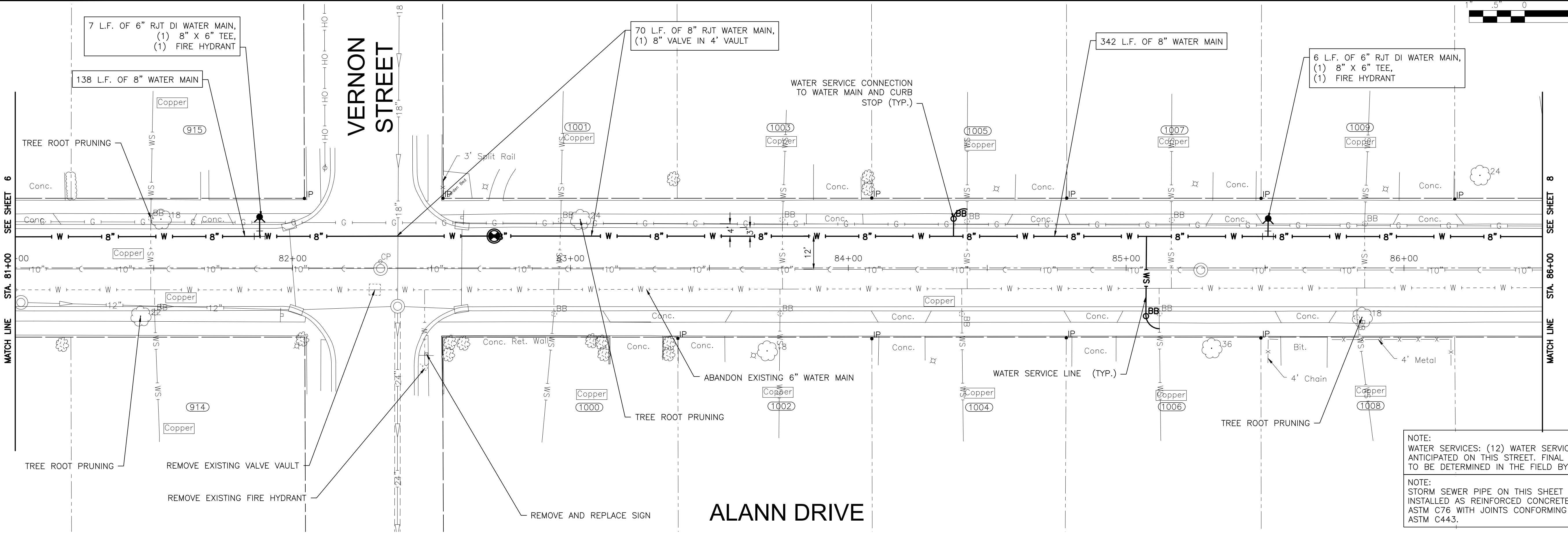
CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

ALANN DRIVE STA. 75+50 TO STA. 81+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 221587.40	DESIGNED - ACM	TOTAL SHEETS
		DRAWN - JJS	23
		CHECKED - MJK	SHEET NO.
		DATE - 10/10/2024	6

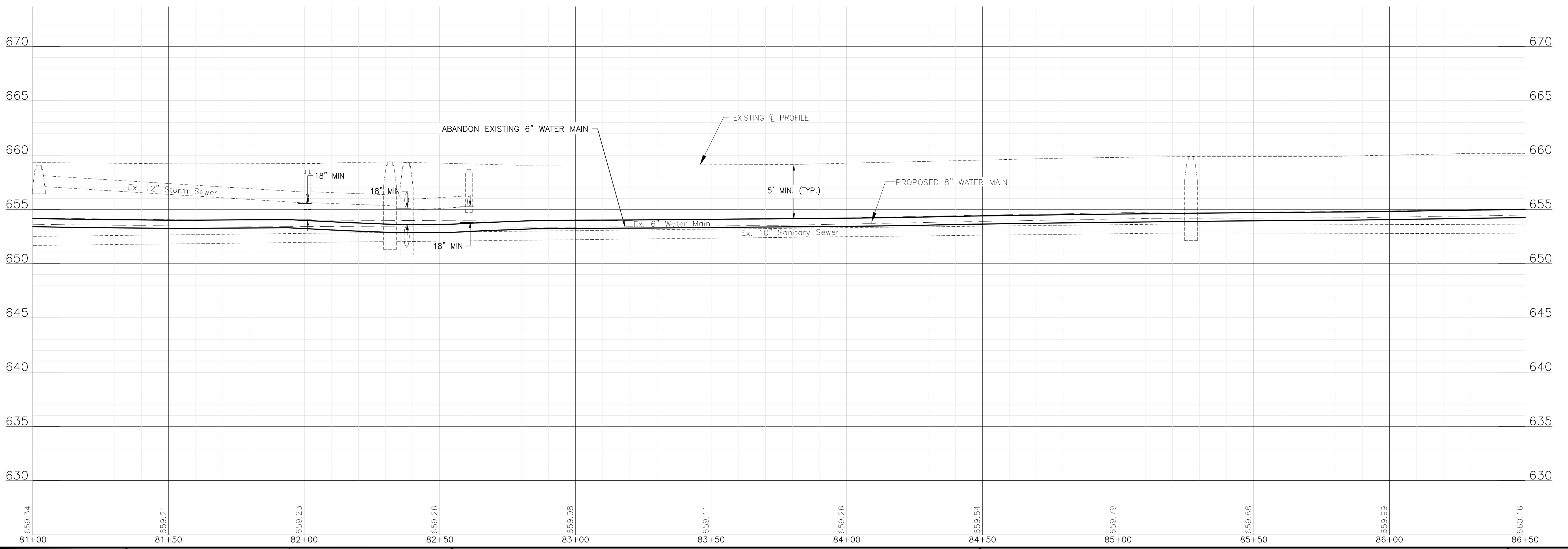
FINAL DESIGN FOR BIDDING

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NOTE:
 WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



FINAL DESIGN
 FOR BIDDING



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	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS
 KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2848-0125

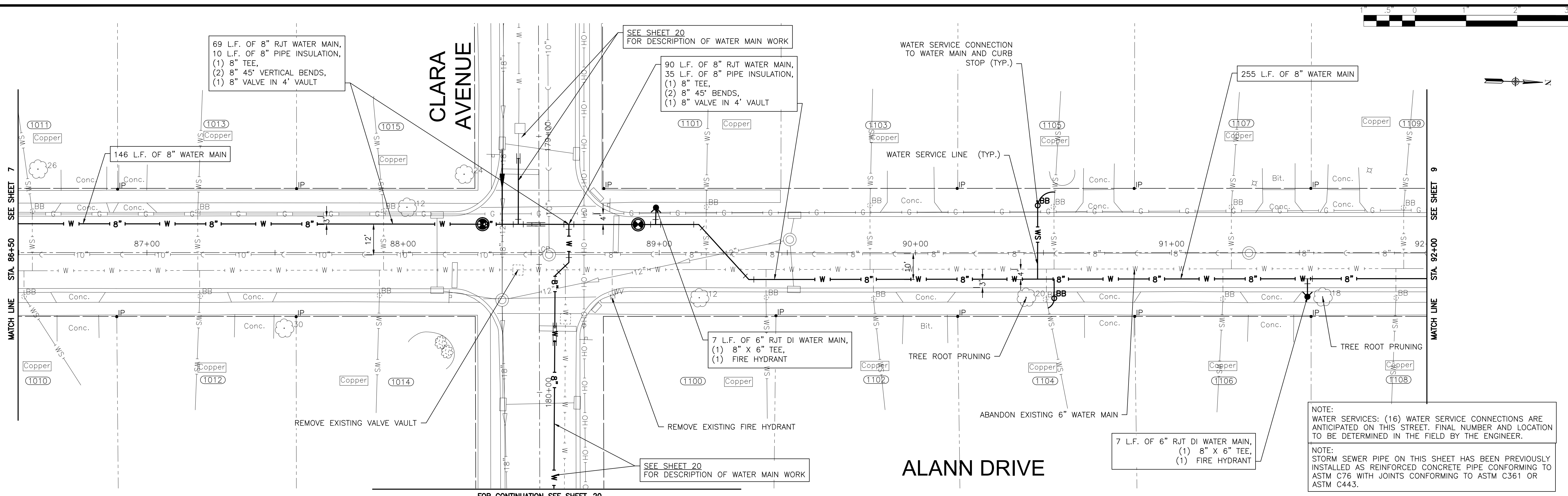
ALANN DRIVE STA. 81+00 TO STA. 86+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

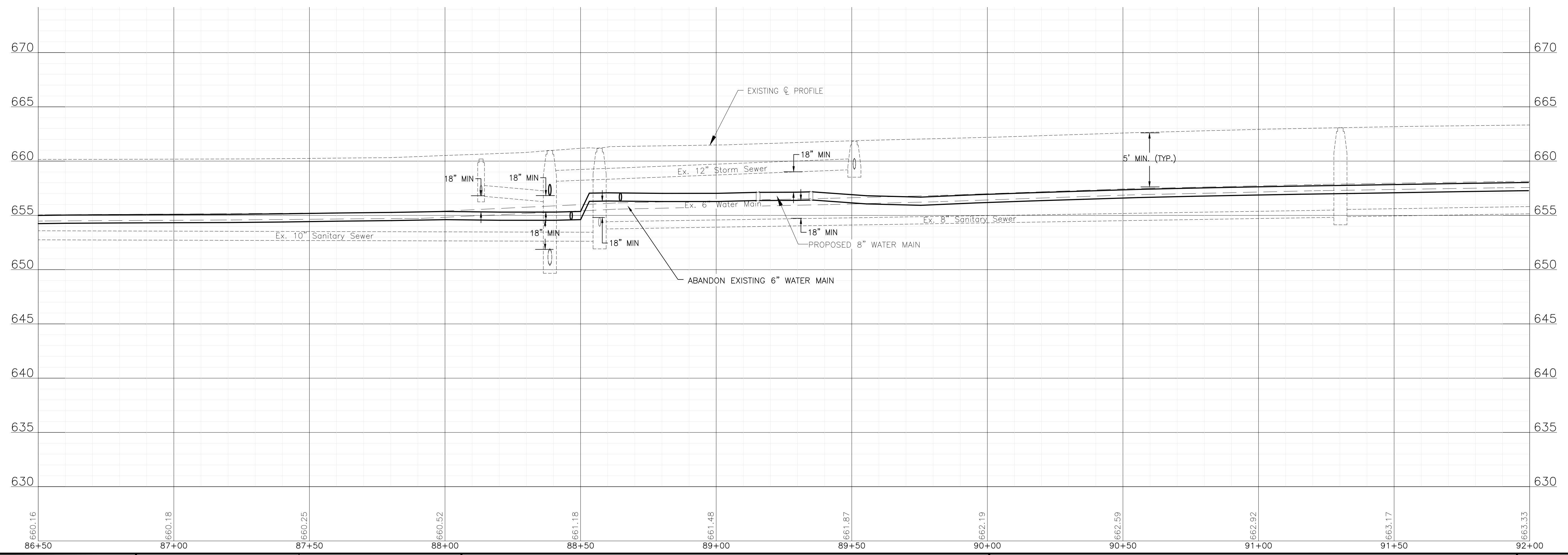
PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	7
CHECKED - MJK		
DATE - 10/10/2024		

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NOTE:
 WATER SERVICES: (16) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

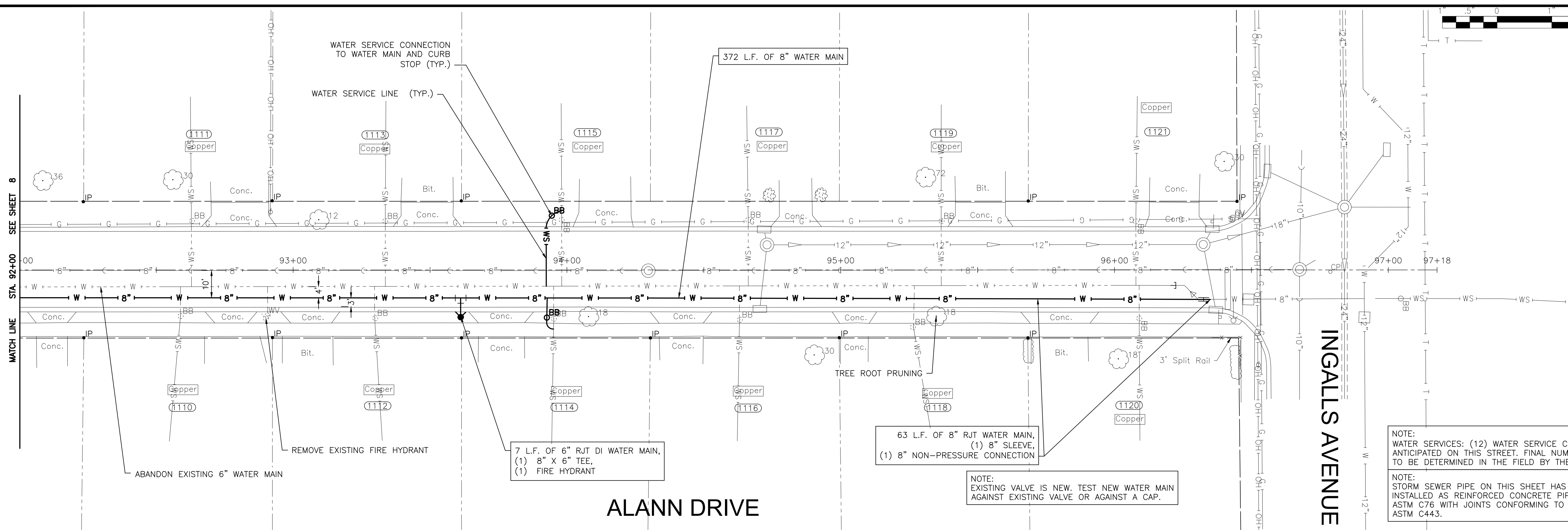
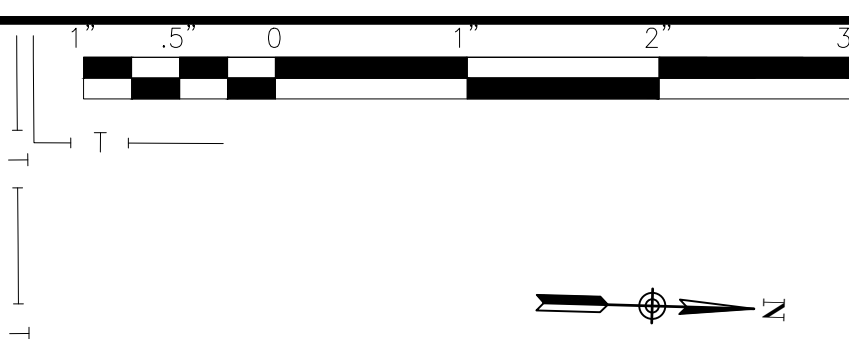
ALANN DRIVE STA. 86+50 TO STA. 92+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	8
CHECKED - MJK		
DATE - 10/10/2024		

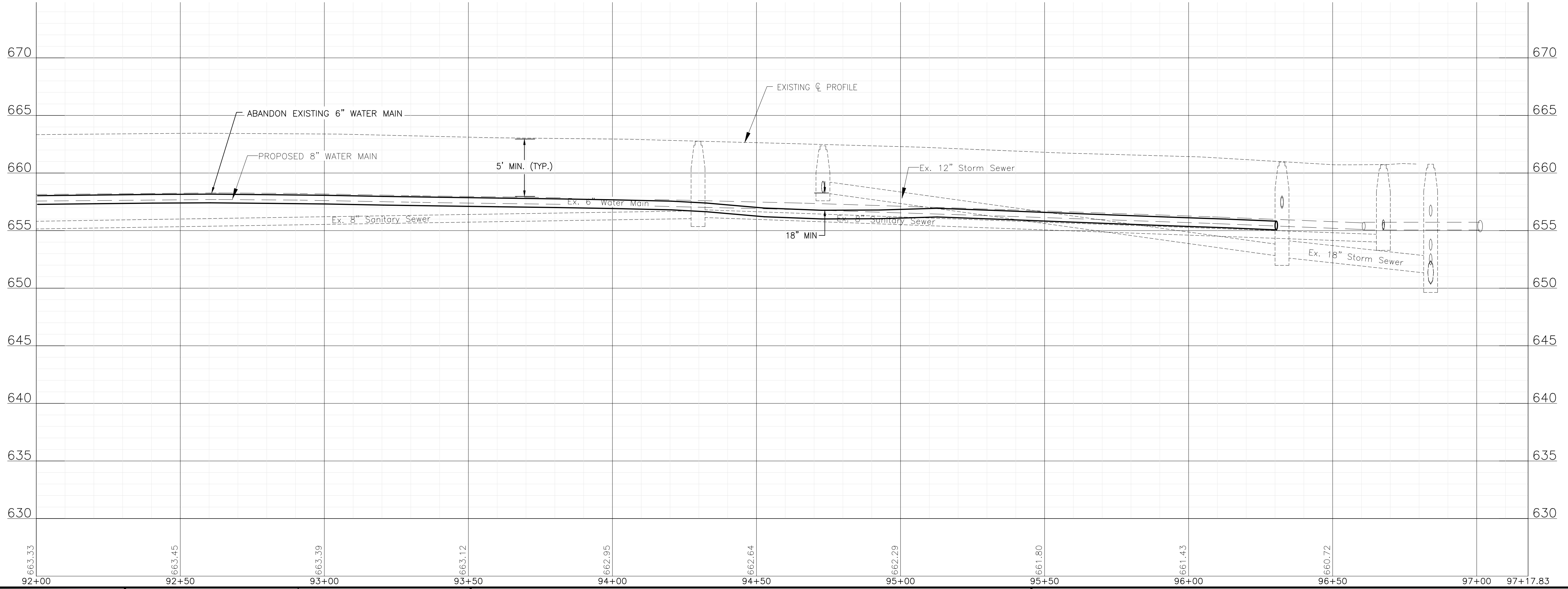
FINAL DESIGN FOR BIDDING



NOTE:
WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.

NOTE:
EXISTING VALVE IS NEW. TEST NEW WATER MAIN AGAINST EXISTING VALVE OR AGAINST A CAP.



FINAL DESIGN FOR BIDDING

P:\JOLIO\221587-2024 WATER MAIN SURV\CAD\KRINGS ACRES PHASE 2\01_CIVIL_3D\01_SHTS-PLANS\221587-KRINGS ACRES PH2-DESIGN_SHEETS.DWG 92+00.00
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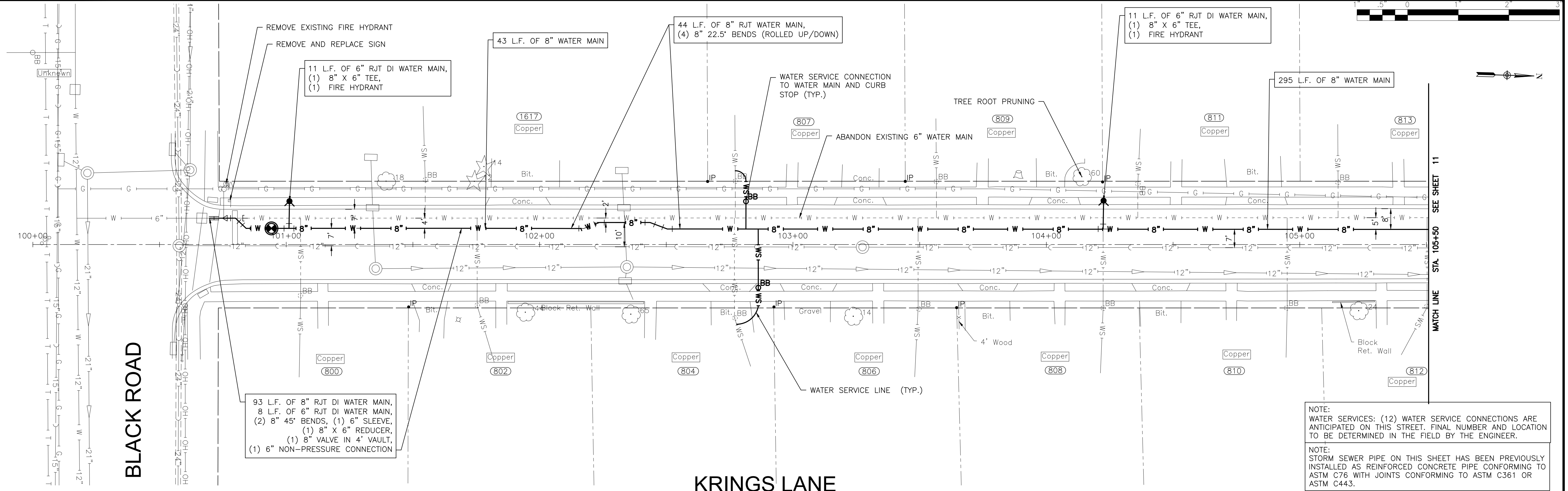
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CITY OF JOLIET, ILLINOIS
 KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
 CITY OF JOLIET CONTRACT NO. 2848-0125

ALANN DRIVE STA. 92+00 TO STA. 98+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 221587.40

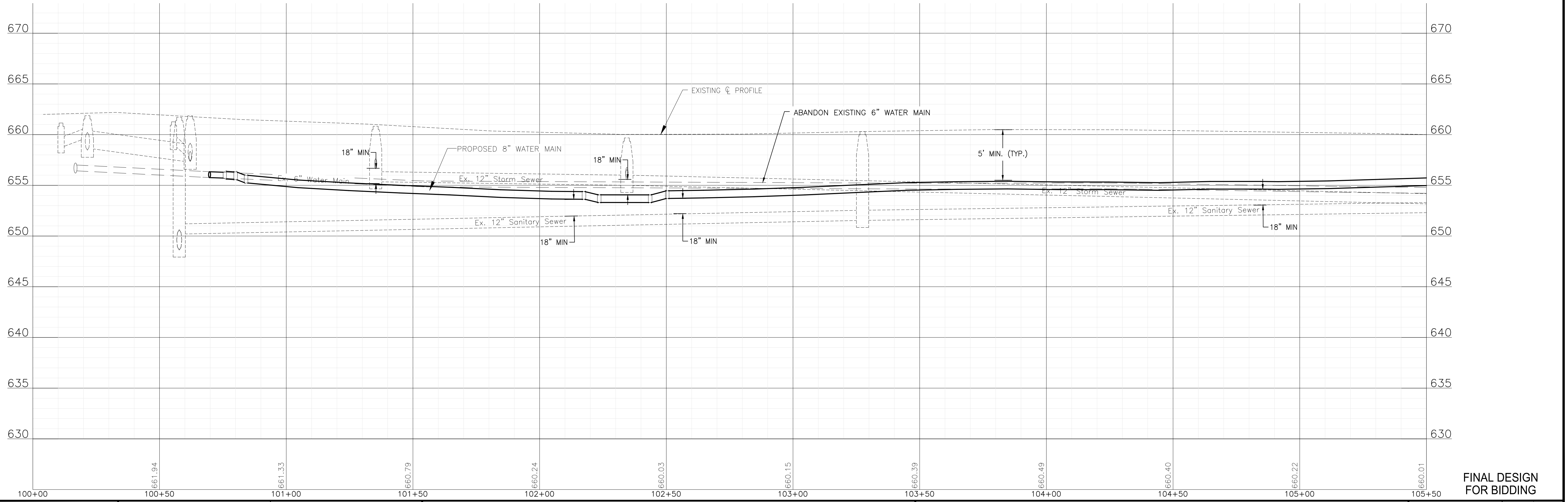
DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	9
CHECKED - MJK		
DATE - 10/10/2024		

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NOTE:
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NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

KRINGS LANE STA. 100+00 TO STA. 105+50 PLAN AND PROFILE

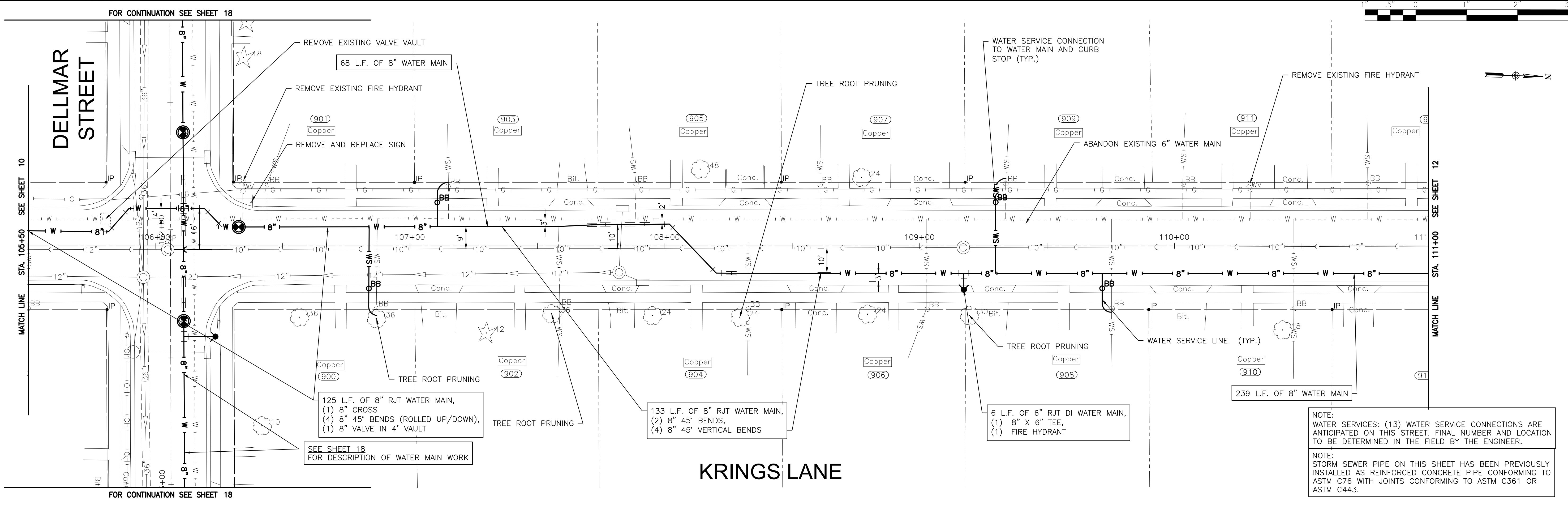
SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 221587.40

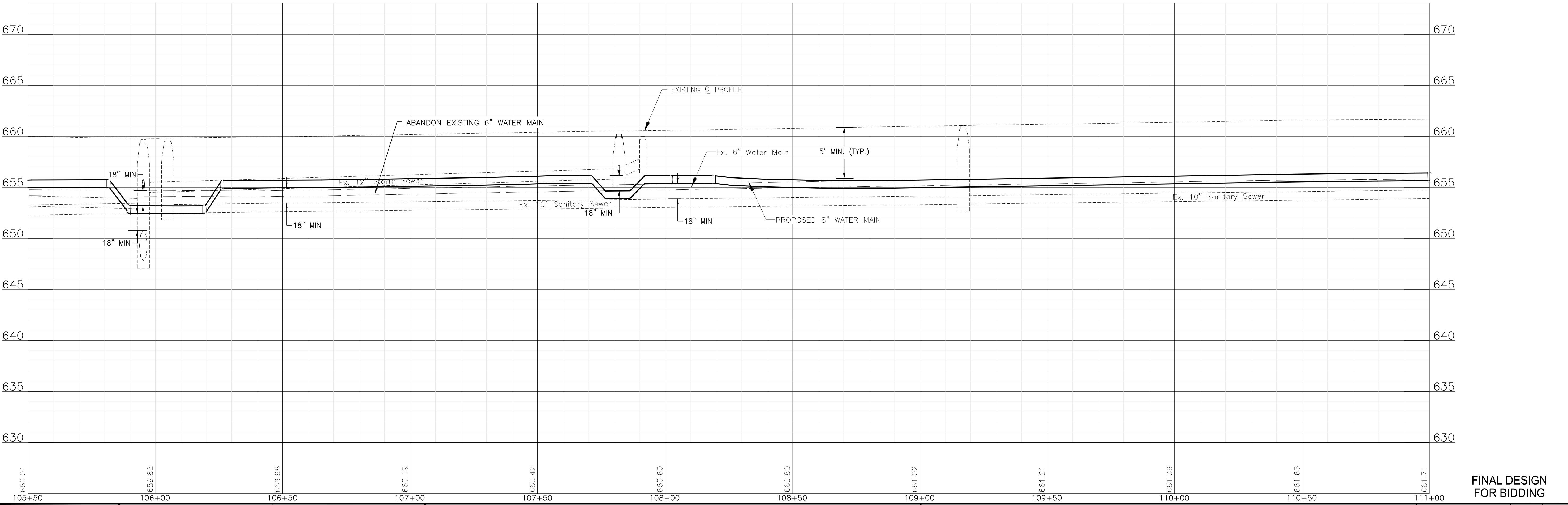
DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	10
CHECKED - MJK		
DATE - 10/10/2024		

FINAL DESIGN FOR BIDDING

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NOTE:
 WATER SERVICES: (13) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

KRINGS LANE STA. 105+50 TO STA. 111+00 PLAN AND PROFILE

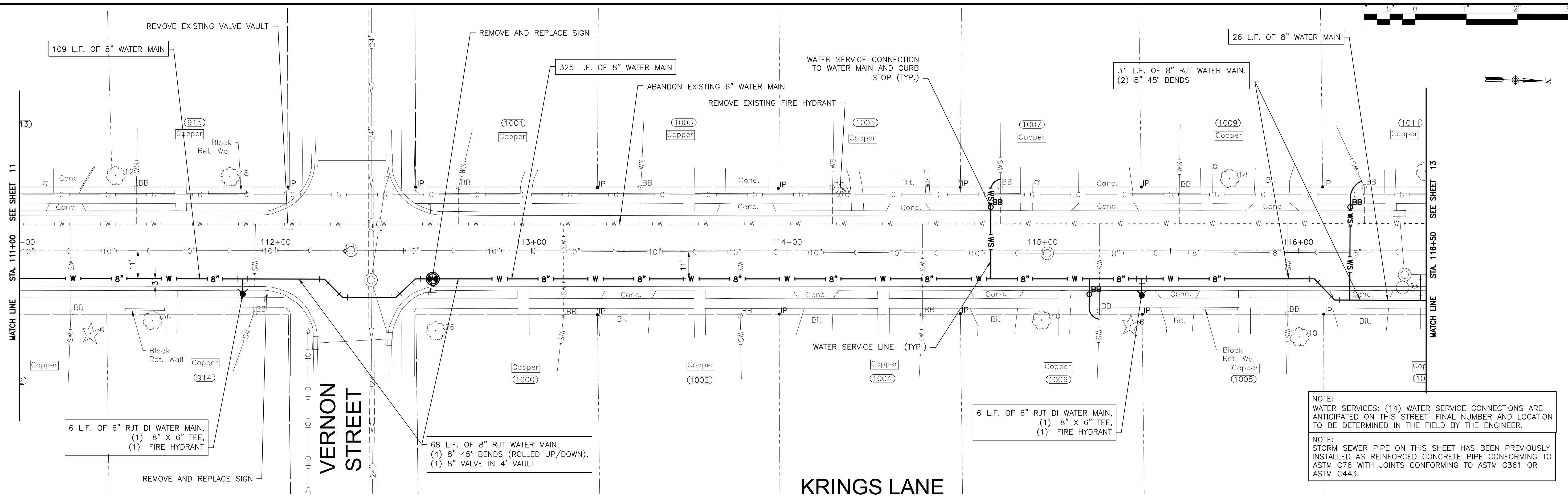
SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	11
CHECKED - MJK		
DATE - 10/10/2024		

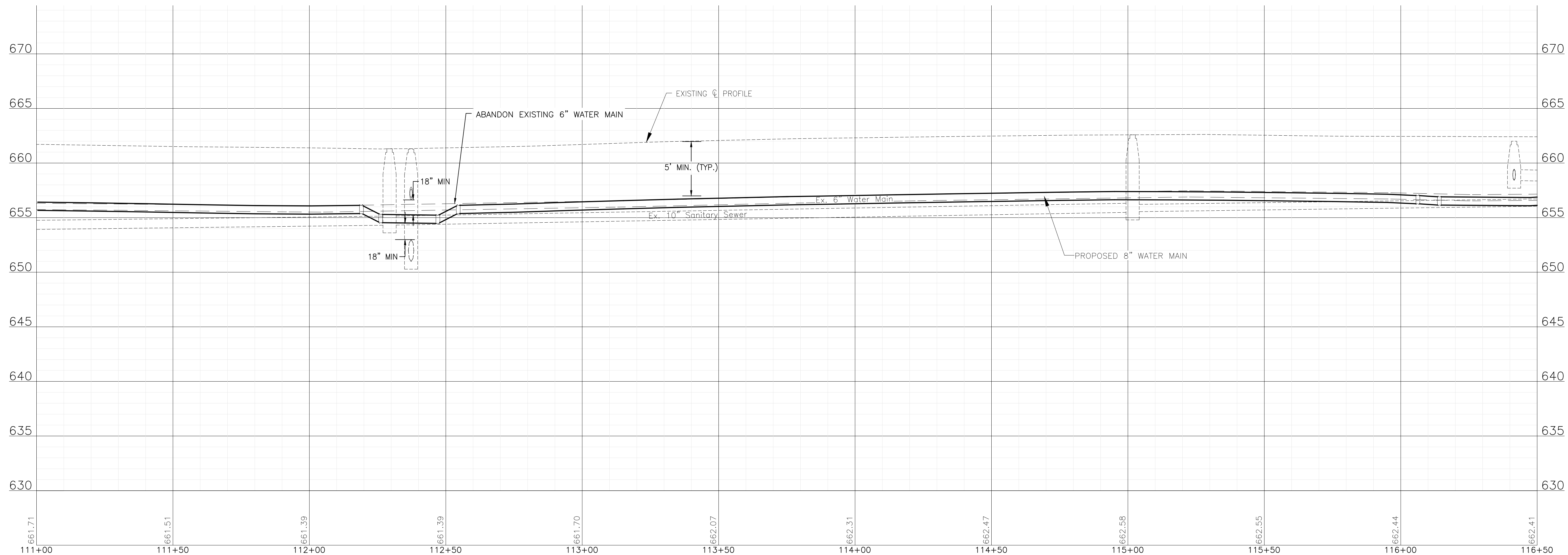
FINAL DESIGN FOR BIDDING

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NOTE:
 WATER SERVICES: (14) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

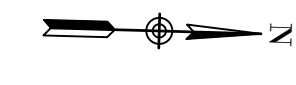
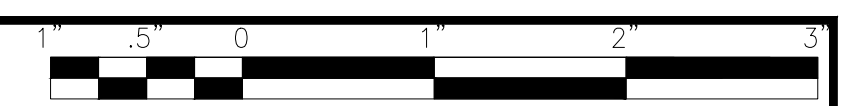
KRINGS LANE STA. 111+00 TO STA. 116+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

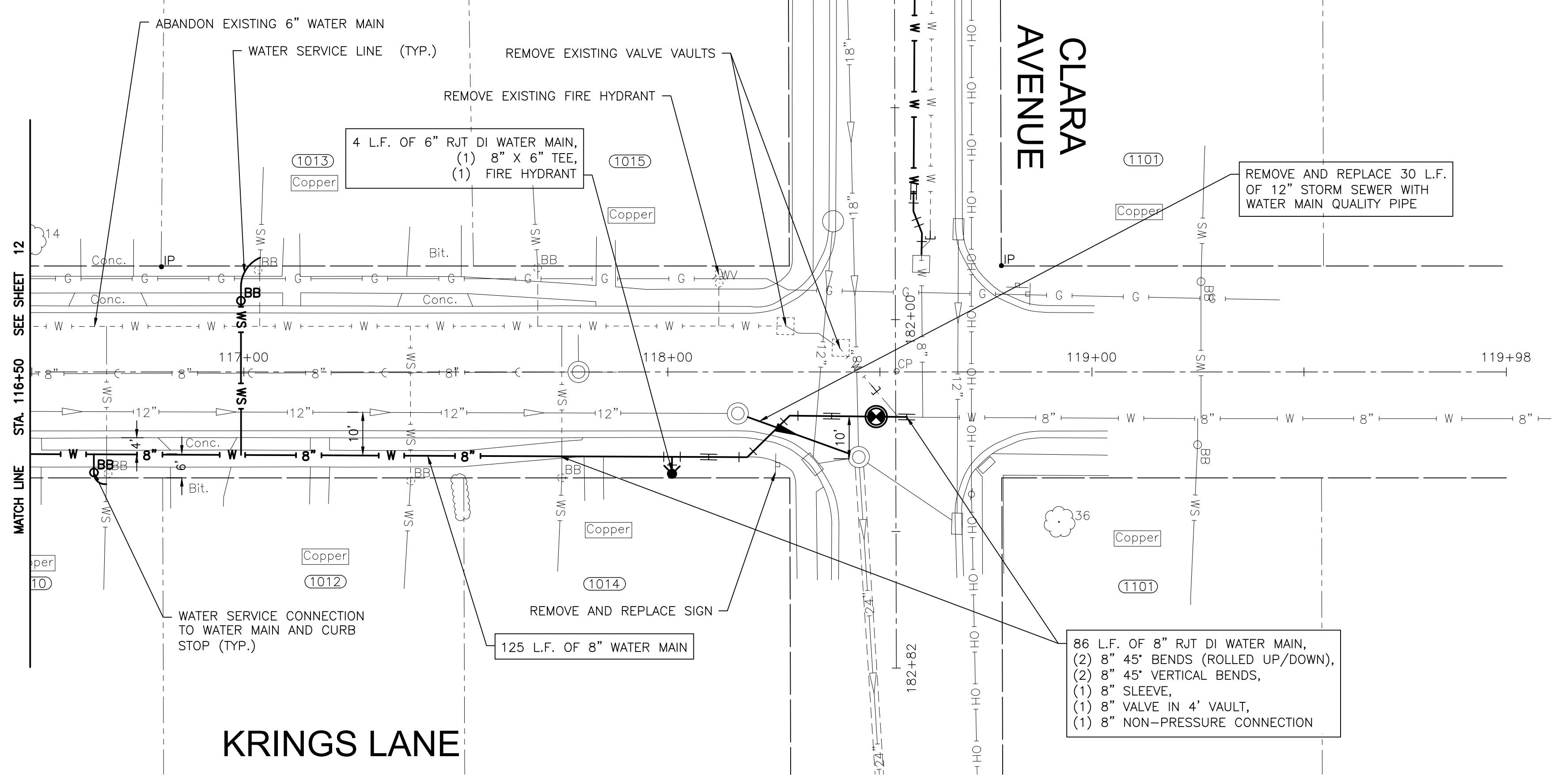
PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	12
CHECKED - MJK		
DATE - 10/10/2024		

FINAL DESIGN FOR BIDDING

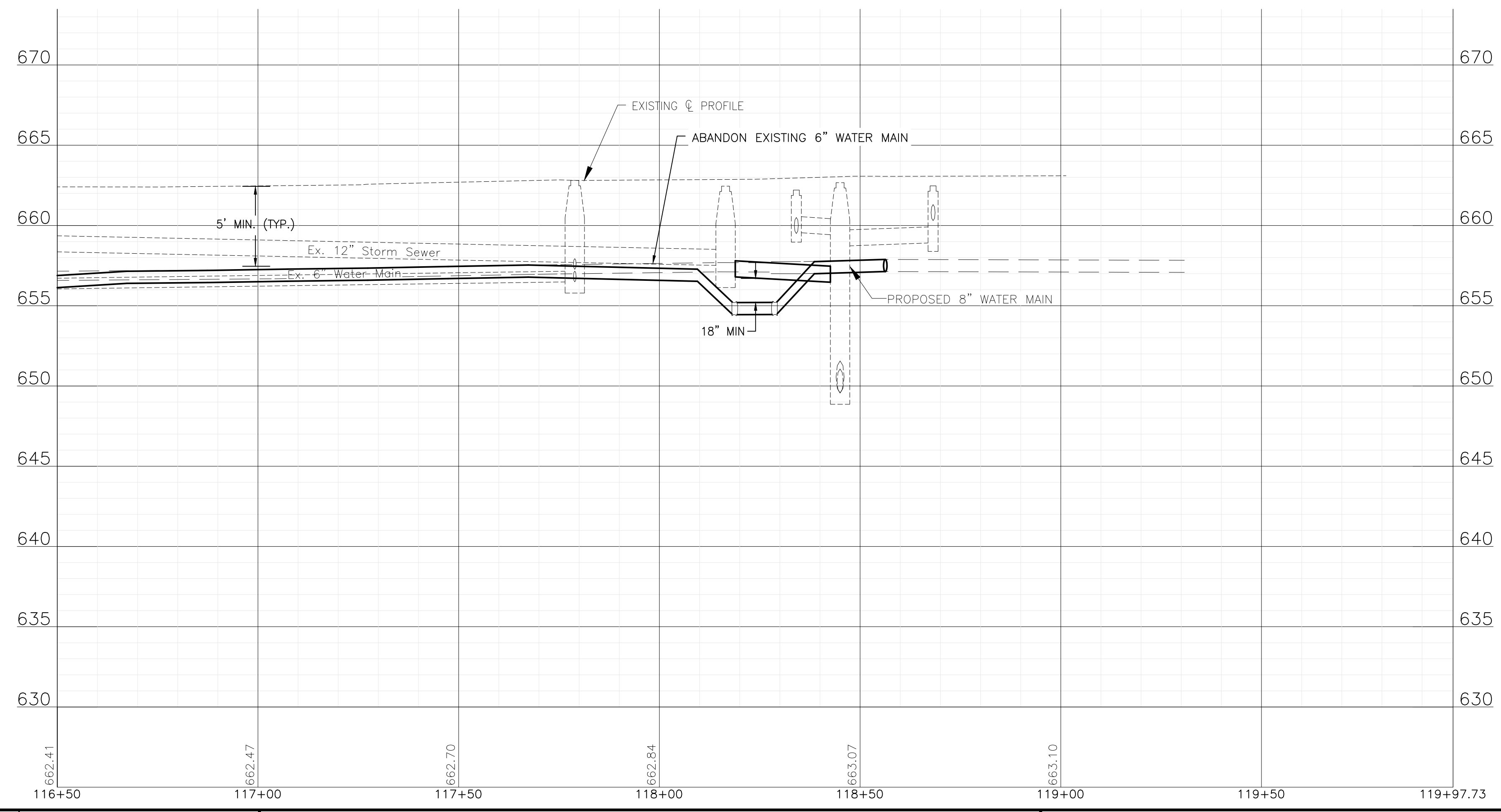


FOR CONTINUATION SEE SHEET 20



NOTE:
WATER SERVICES: (5) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



P:\JOL\221587-2024 WATER MAIN SURV\CAD\KRINGS ACRES PHASE 2\01_CIVIL_3D\01_SHTS-PLANS\221587-KRINGS ACRES PH2-DESIGN_SHEETS.DWG 116+50.00
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	REVISED -

CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

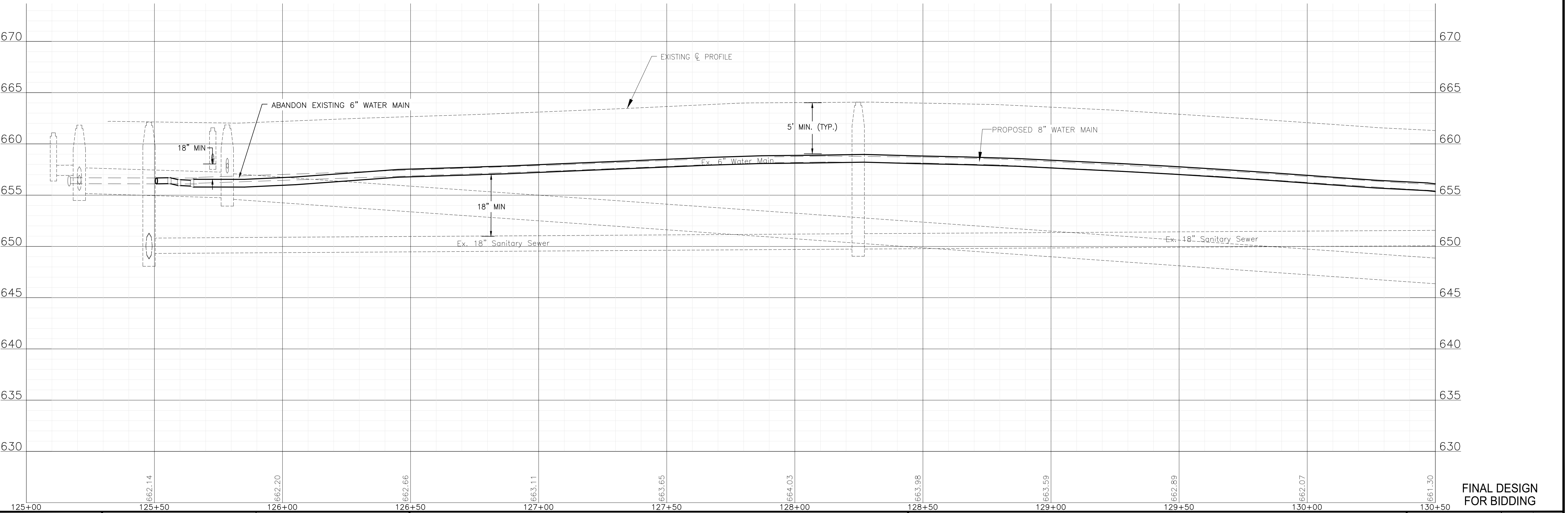
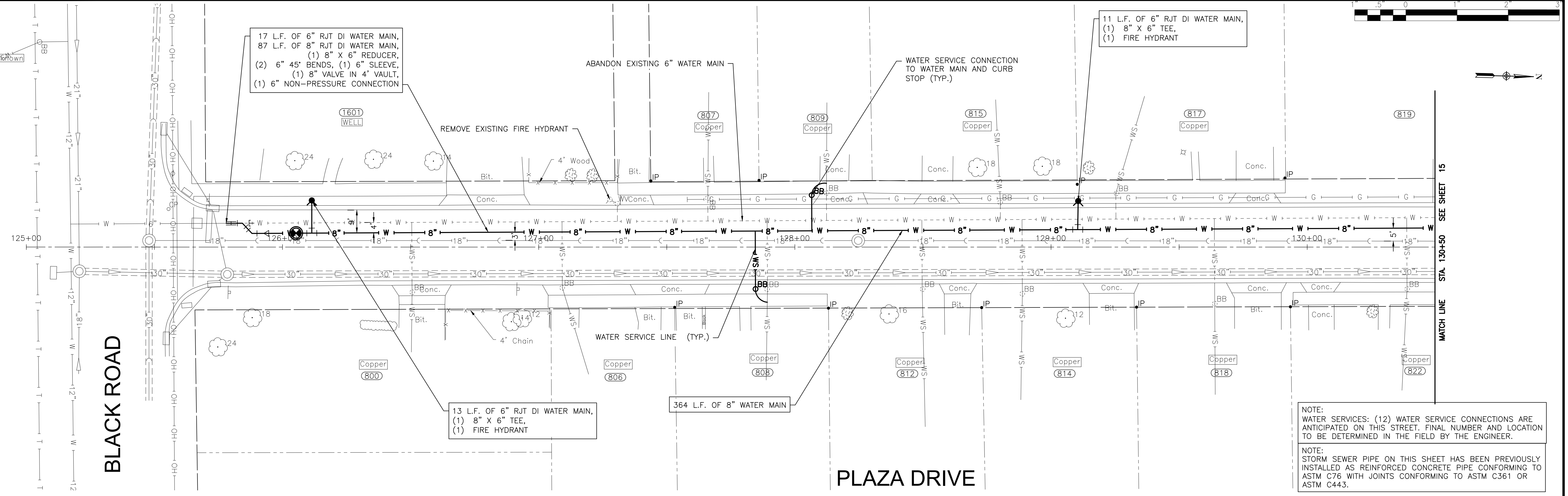
KRINGS LANE STA. 116+50 TO STA. 120+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	13
CHECKED - MJK		
DATE - 10/10/2024		

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NOTE:
 WATER SERVICES: (12) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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	REVISED -

CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

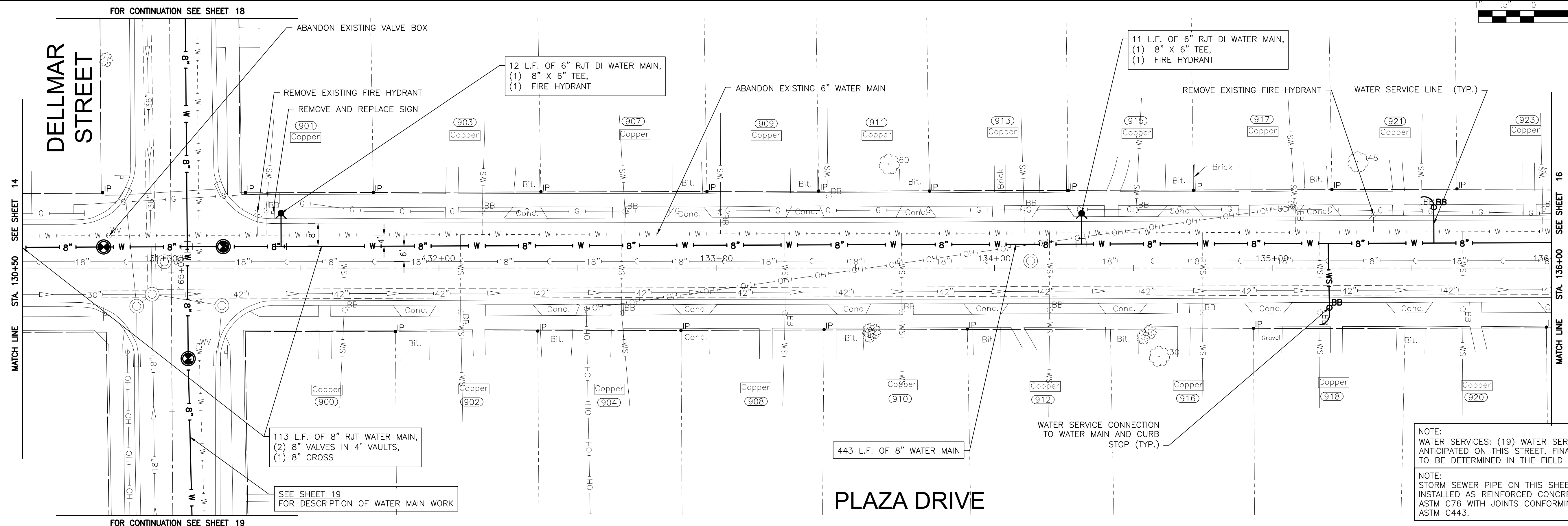
PLAZA DRIVE STA. 125+00 TO STA. 130+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	14
CHECKED - MJK		
DATE - 10/10/2024		

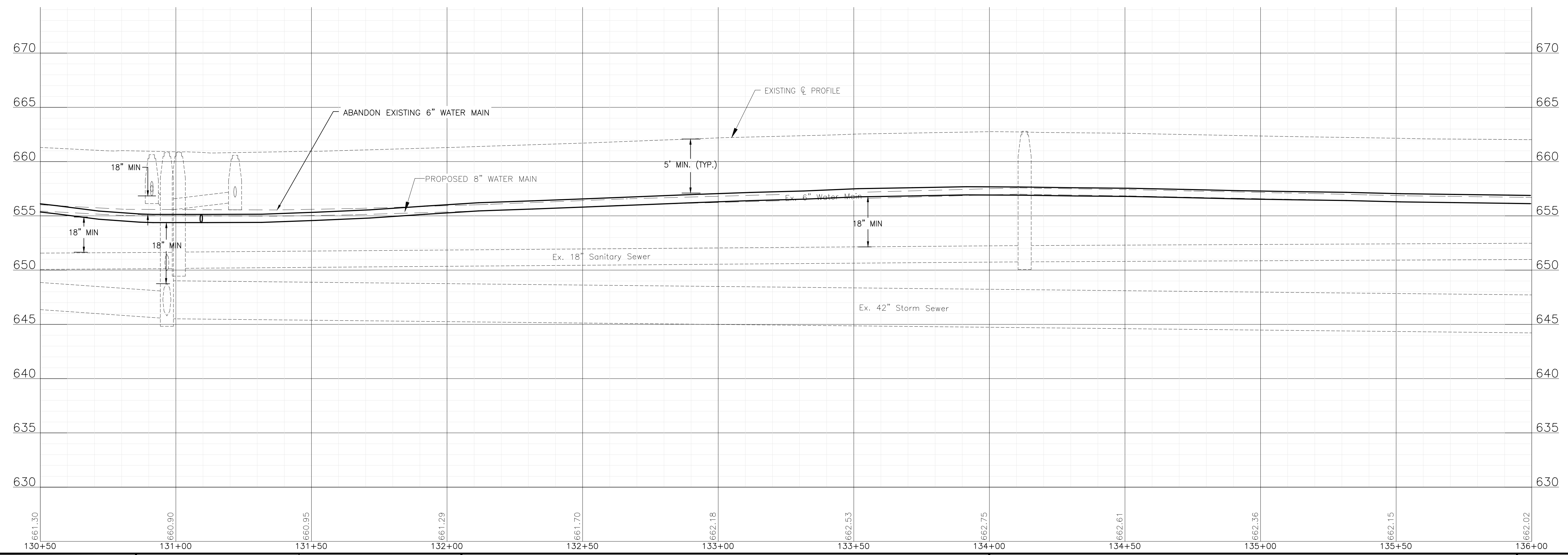
FINAL DESIGN FOR BIDDING

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NOTE:
 WATER SERVICES: (19) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



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	REVISED -

CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

PLAZA DRIVE STA. 130+50 TO STA. 136+00 PLAN AND PROFILE

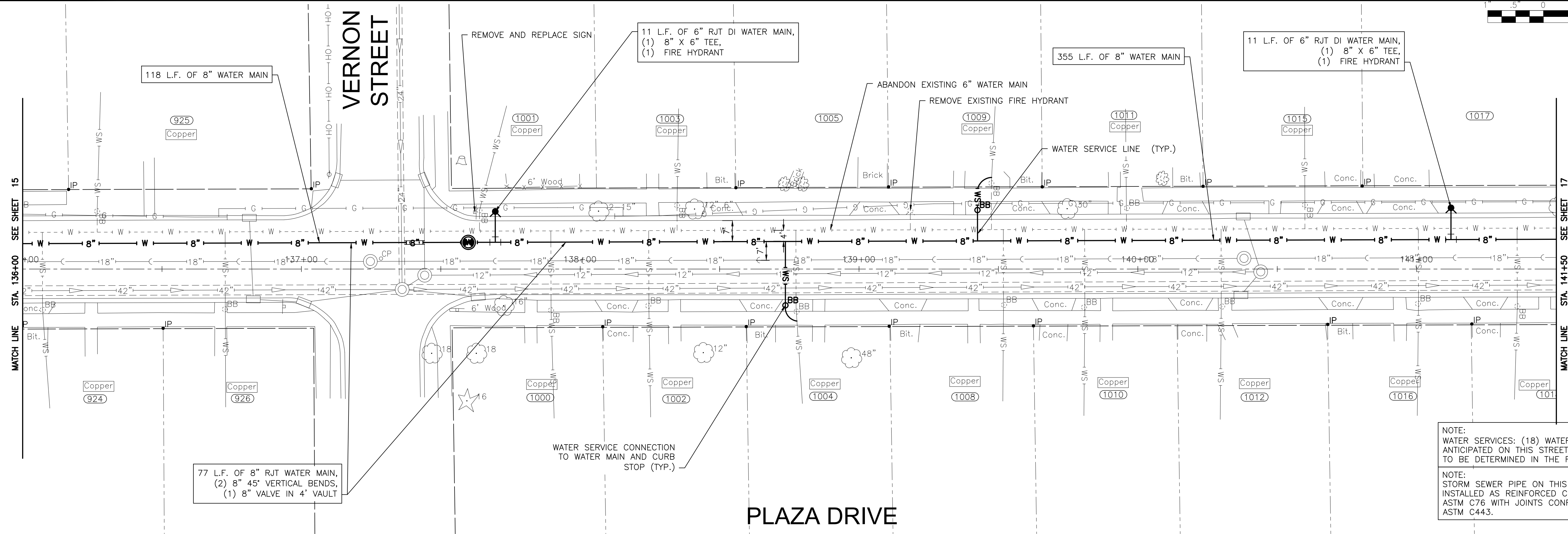
SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	15
CHECKED - MJK		
DATE - 10/10/2024		

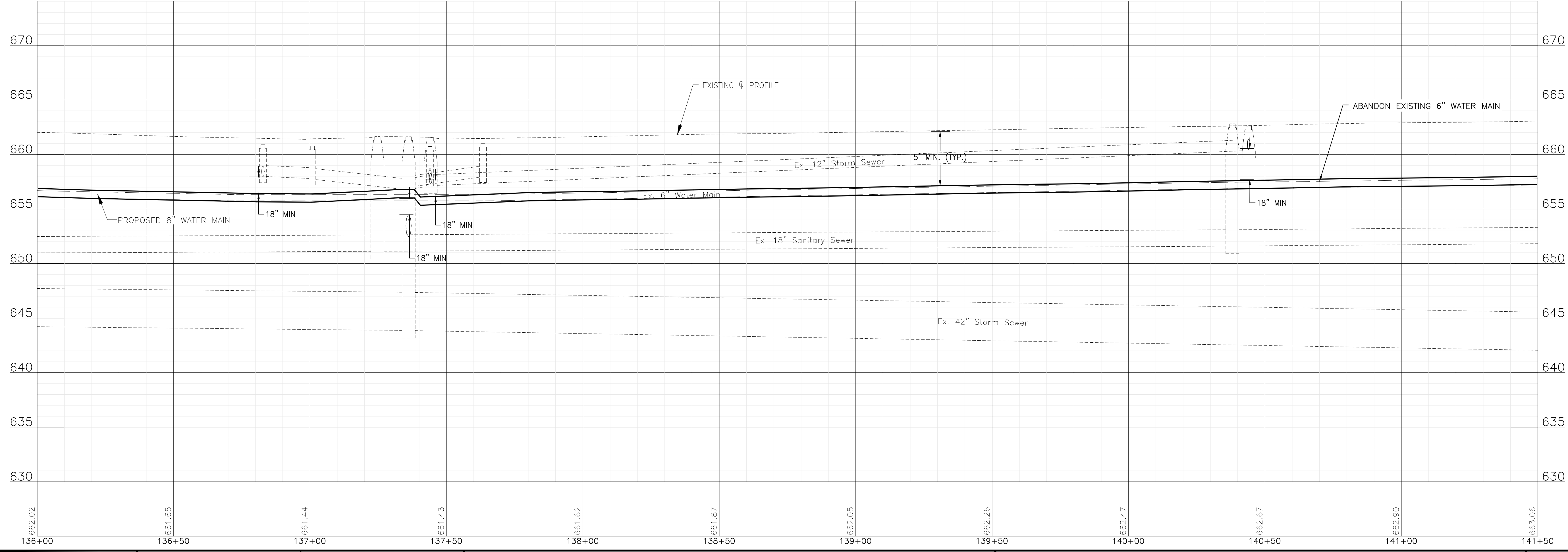
FINAL DESIGN FOR BIDDING

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NOTE:
 WATER SERVICES: (18) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



CONSULTANTS	REVISED -
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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

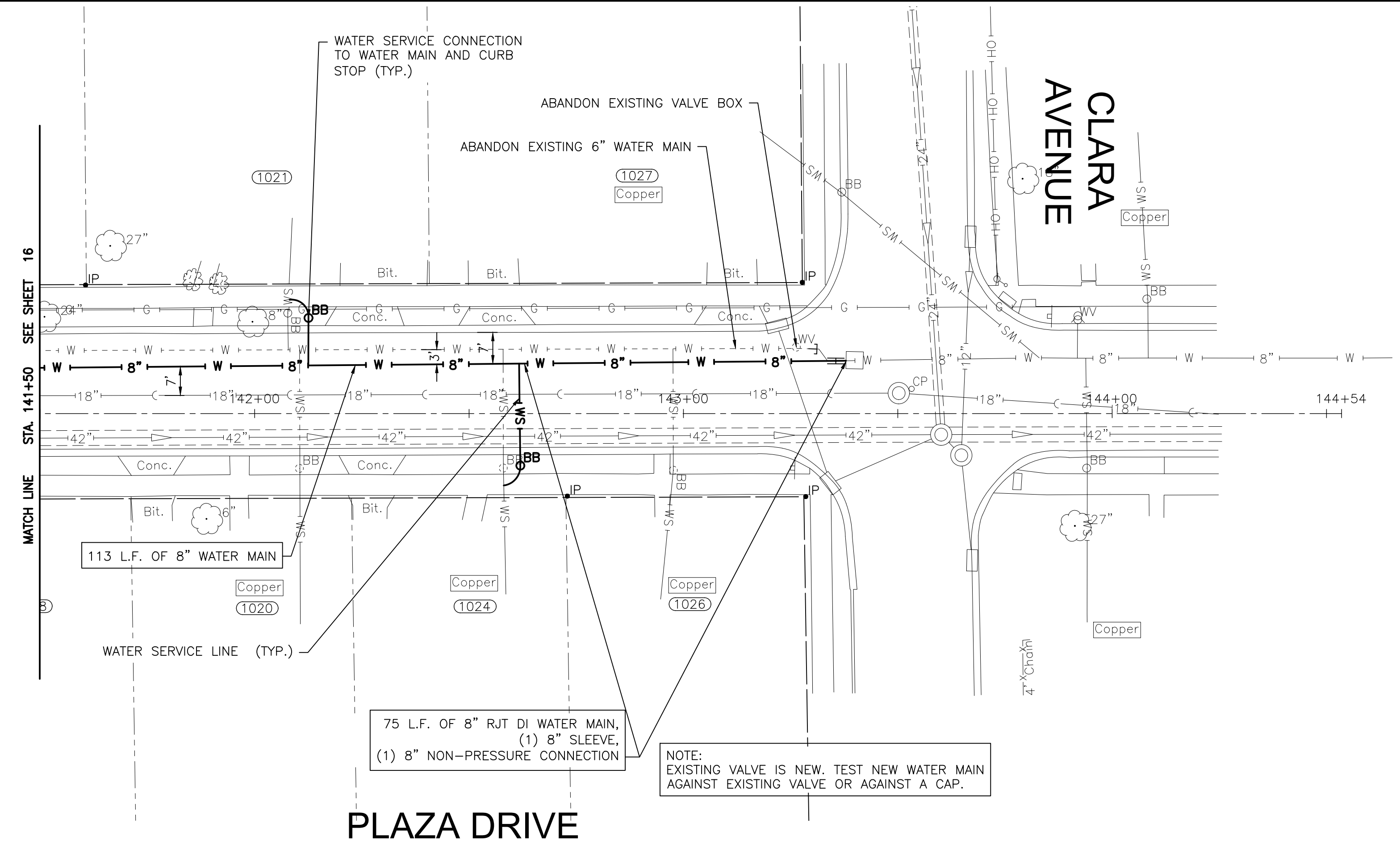
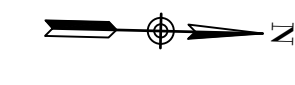
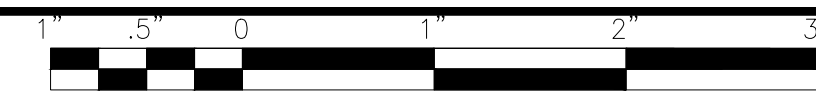
PLAZA DRIVE STA. 136+00 TO STA. 141+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 221587.40

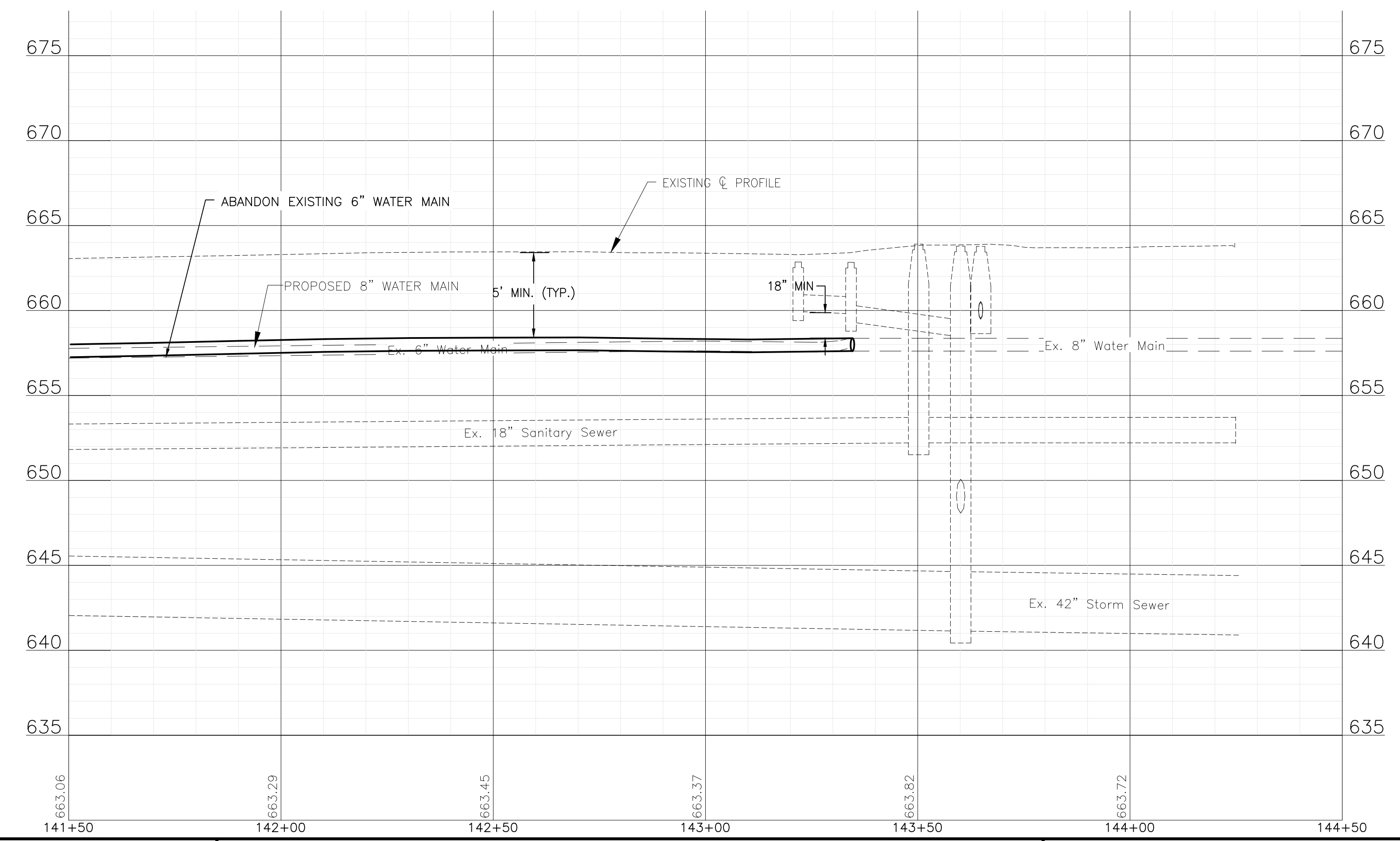
DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	16
CHECKED - MJK		
DATE - 10/10/2024		

FINAL DESIGN FOR BIDDING



NOTE:
WATER SERVICES: (4) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



P:\JOL\221587-2024 WATER MAIN SURV\CAD\KRINGS ACRES PHASE 2\01_CIVIL_3D\01_SHTS-PLANS\221587-KRINGS ACRES PH2-DESIGN_SHEETS.DWG 141+50.00
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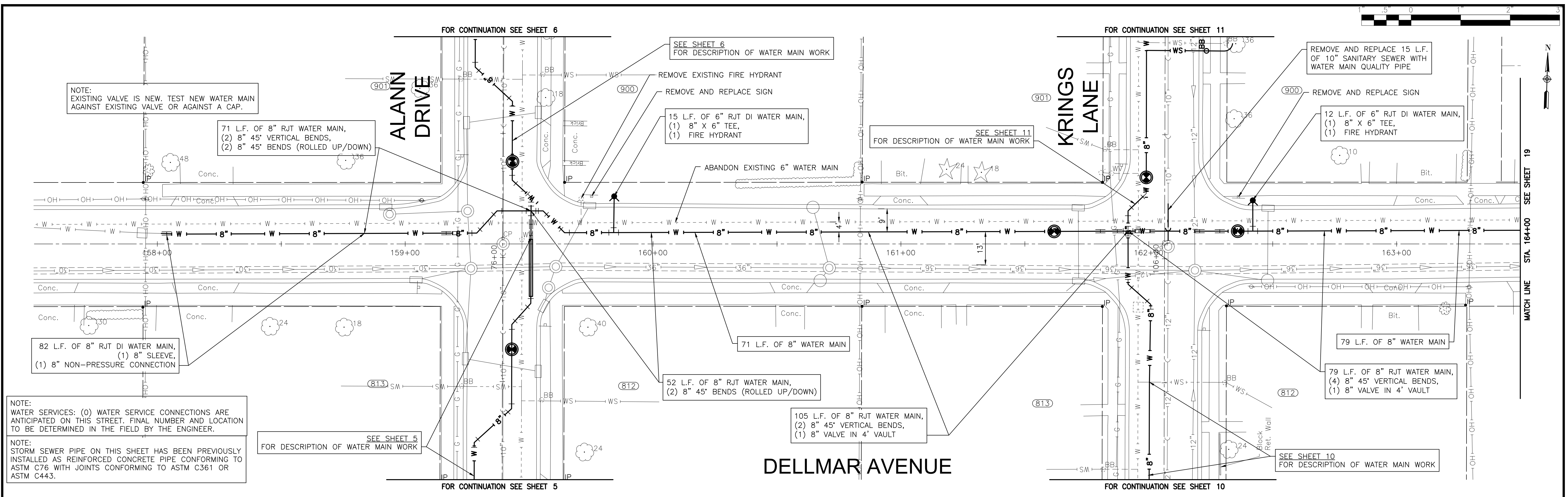
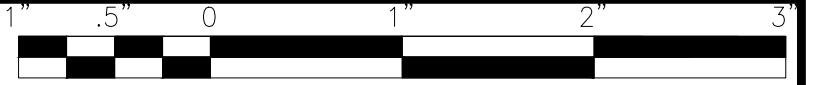
CONSULTANTS	REVISED -
	REVISED -
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	REVISED -

CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

PLAZA DRIVE STA. 141+50 TO STA. 145+00 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	17
CHECKED - MJK		
DATE - 10/10/2024		

FINAL DESIGN FOR BIDDING



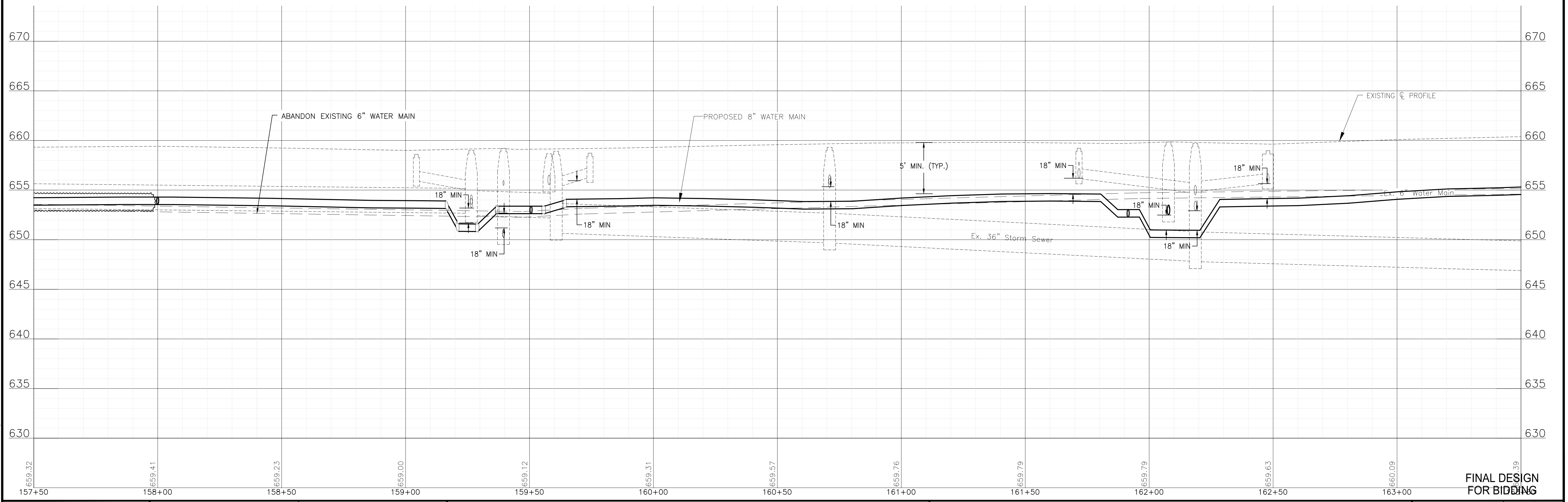
NOTE:
EXISTING VALVE IS NEW. TEST NEW WATER MAIN AGAINST EXISTING VALVE OR AGAINST A CAP.

71 L.F. OF 8" RJT WATER MAIN,
(2) 8" 45° VERTICAL BENDS,
(2) 8" 45° BENDS (ROLLED UP/DOWN)

82 L.F. OF 8" RJT DI WATER MAIN,
(1) 8" SLEEVE,
(1) 8" NON-PRESSURE CONNECTION

NOTE:
WATER SERVICES: (O) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.



P:\JOLIET\221587-2024 WATER MAIN SURV\CAD\KRINGS ACRES PHASE 2\01_CIVIL_3D\01_SHTS-PLANS-221587-KRINGS ACRES PH2-DESIGN-SHEETS.DWG 158+00.00
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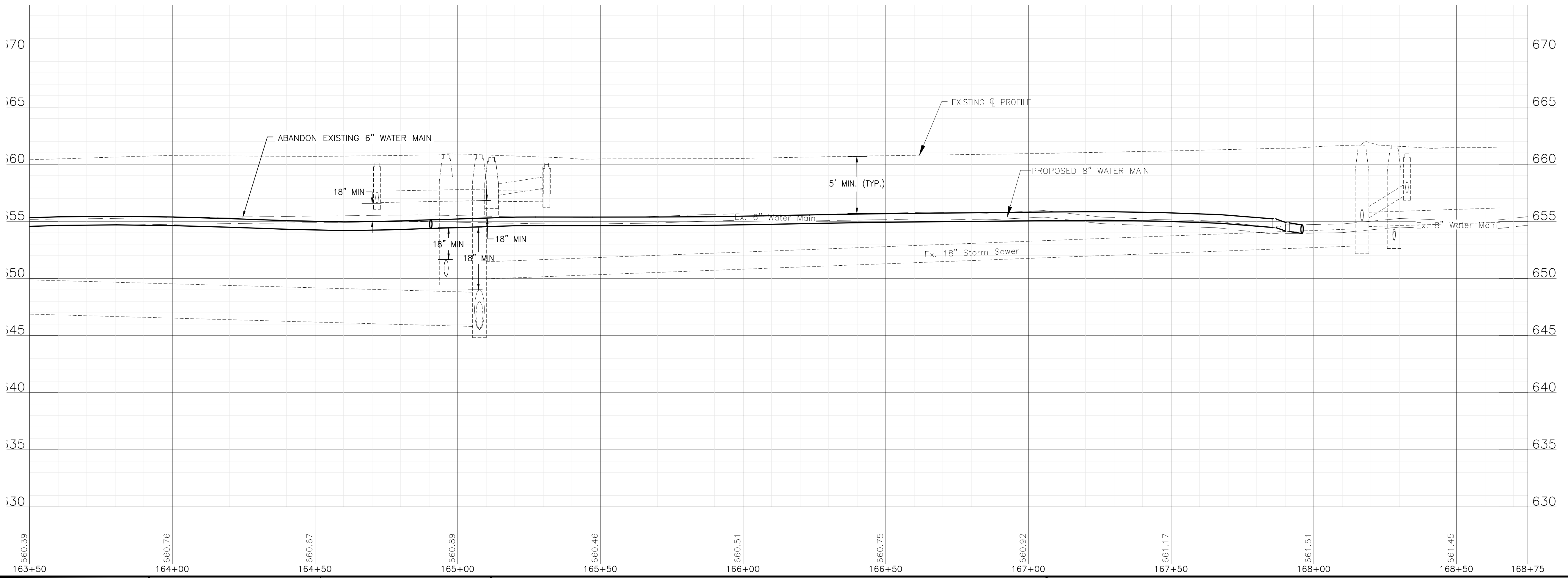
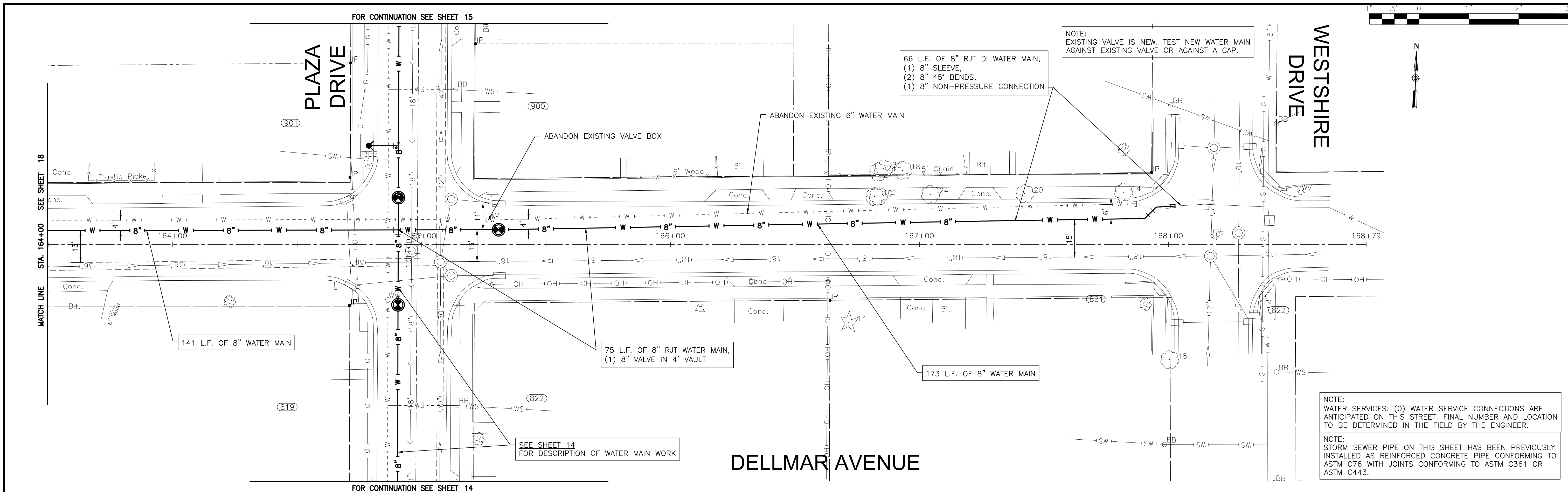
CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

DELLMAR STREET STA. 158+00 TO STA. 163+50 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS
DRAWN - JJS	23
CHECKED - MJK	SHEET NO.
DATE - 10/10/2024	18

FINAL DESIGN FOR BIDDING

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NOTE:
 WATER SERVICES: (0) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
 STORM SEWER PIPE ON THIS SHEET HAS BEEN PREVIOUSLY INSTALLED AS REINFORCED CONCRETE PIPE CONFORMING TO ASTM C76 WITH JOINTS CONFORMING TO ASTM C361 OR ASTM C443.

BAXTER & WOODMAN
 Consulting Engineers

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	REVISED -

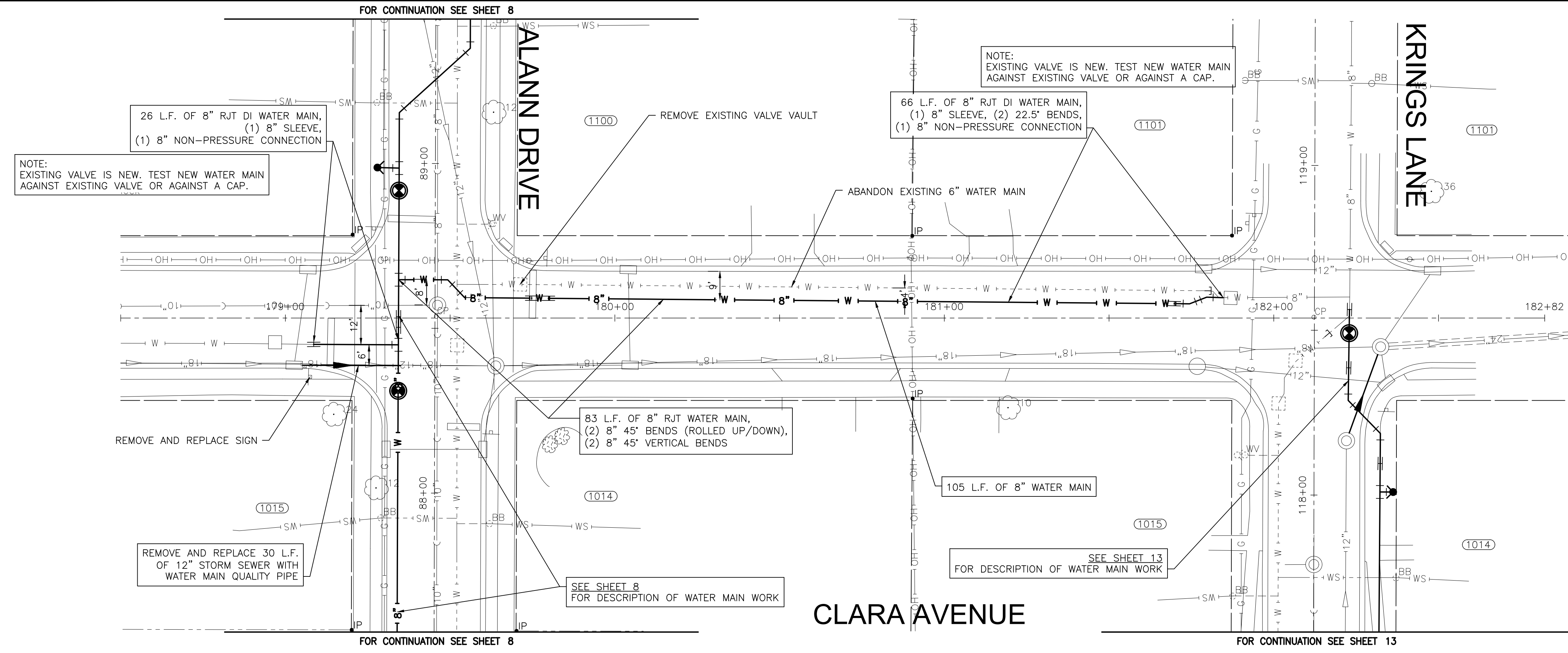
CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

DELLMAR STREET STA. 163+50 TO STA. 168+75 PLAN AND PROFILE
 SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	19
CHECKED - MJK		
DATE - 10/10/2024		

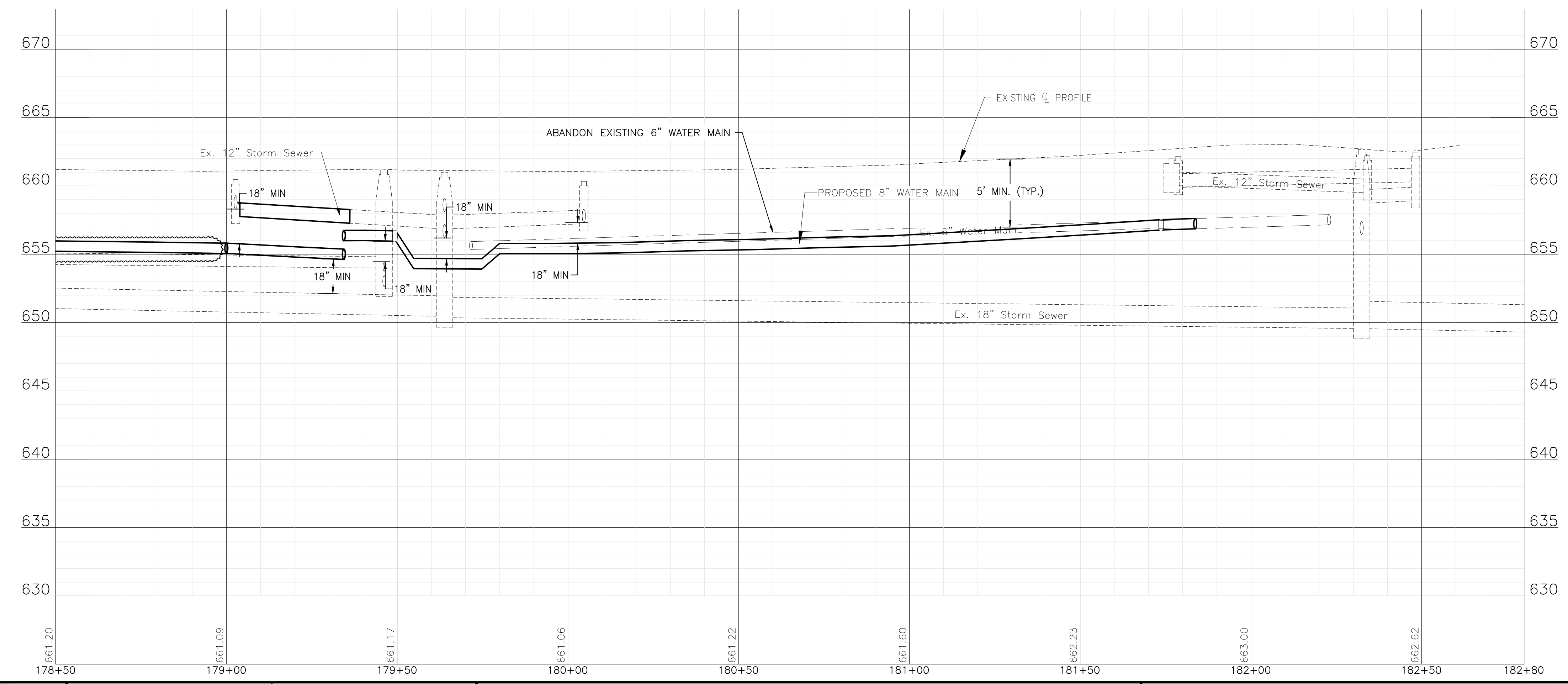
FINAL DESIGN FOR BIDDING

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NOTE:
 WATER SERVICES: (O) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
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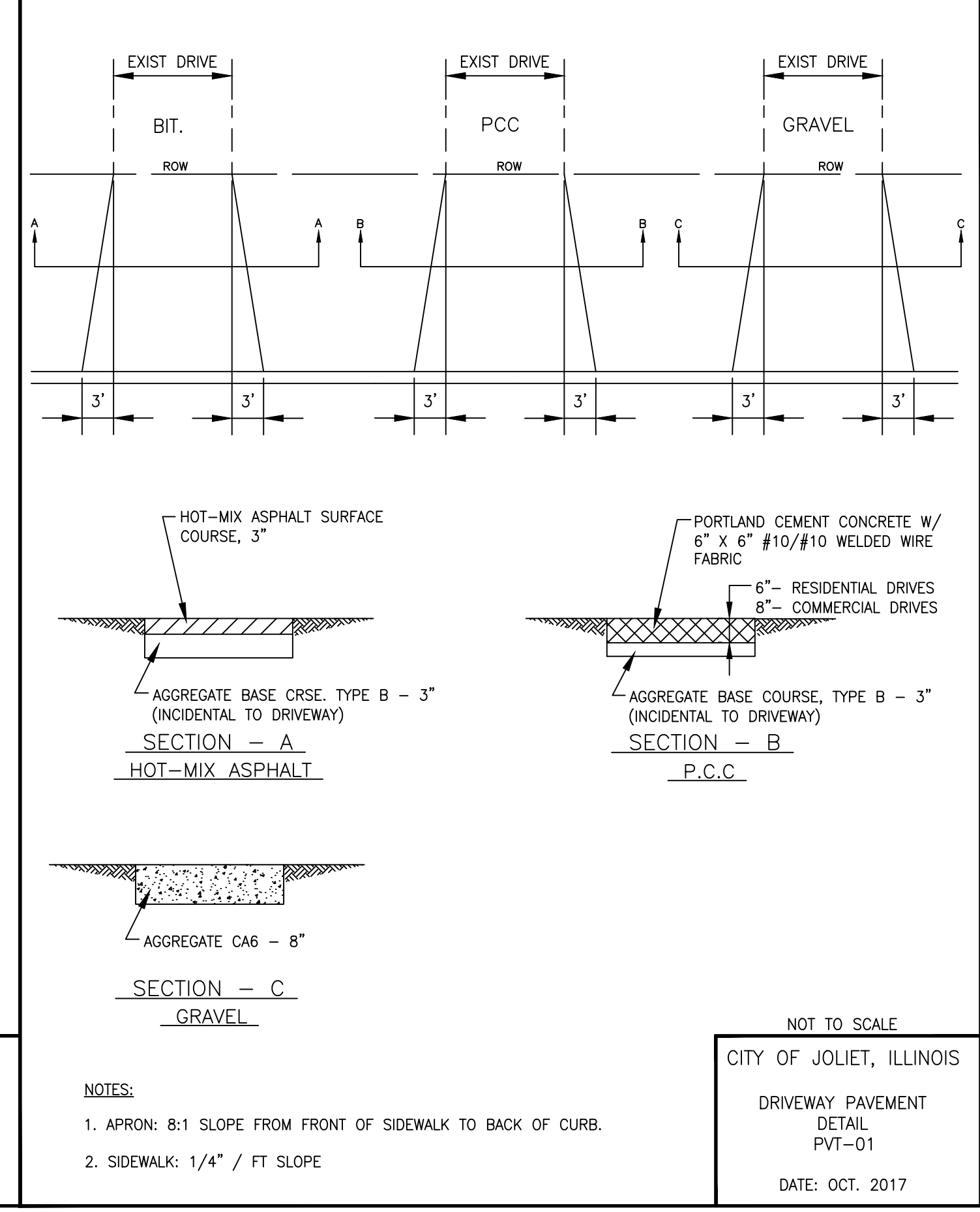
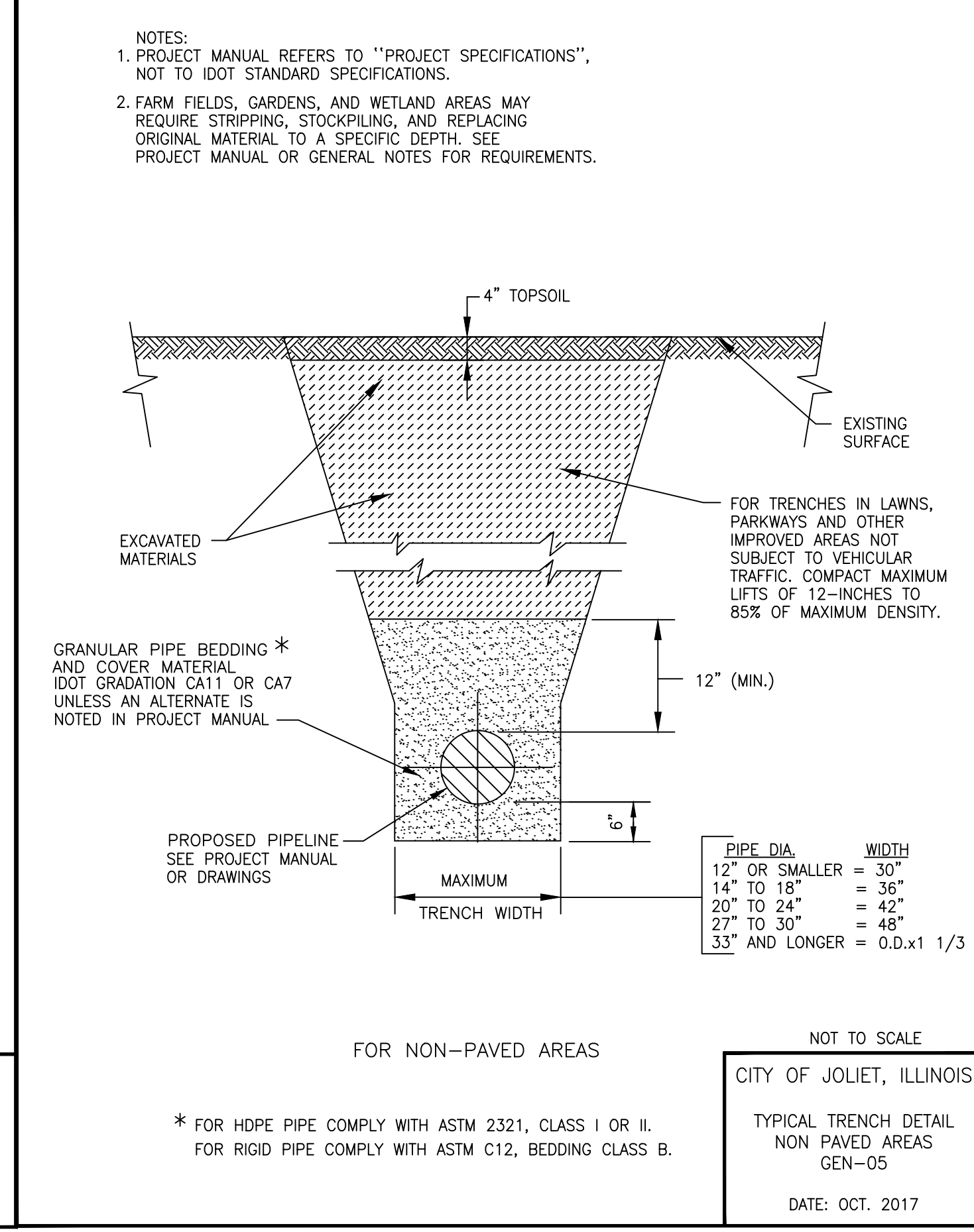
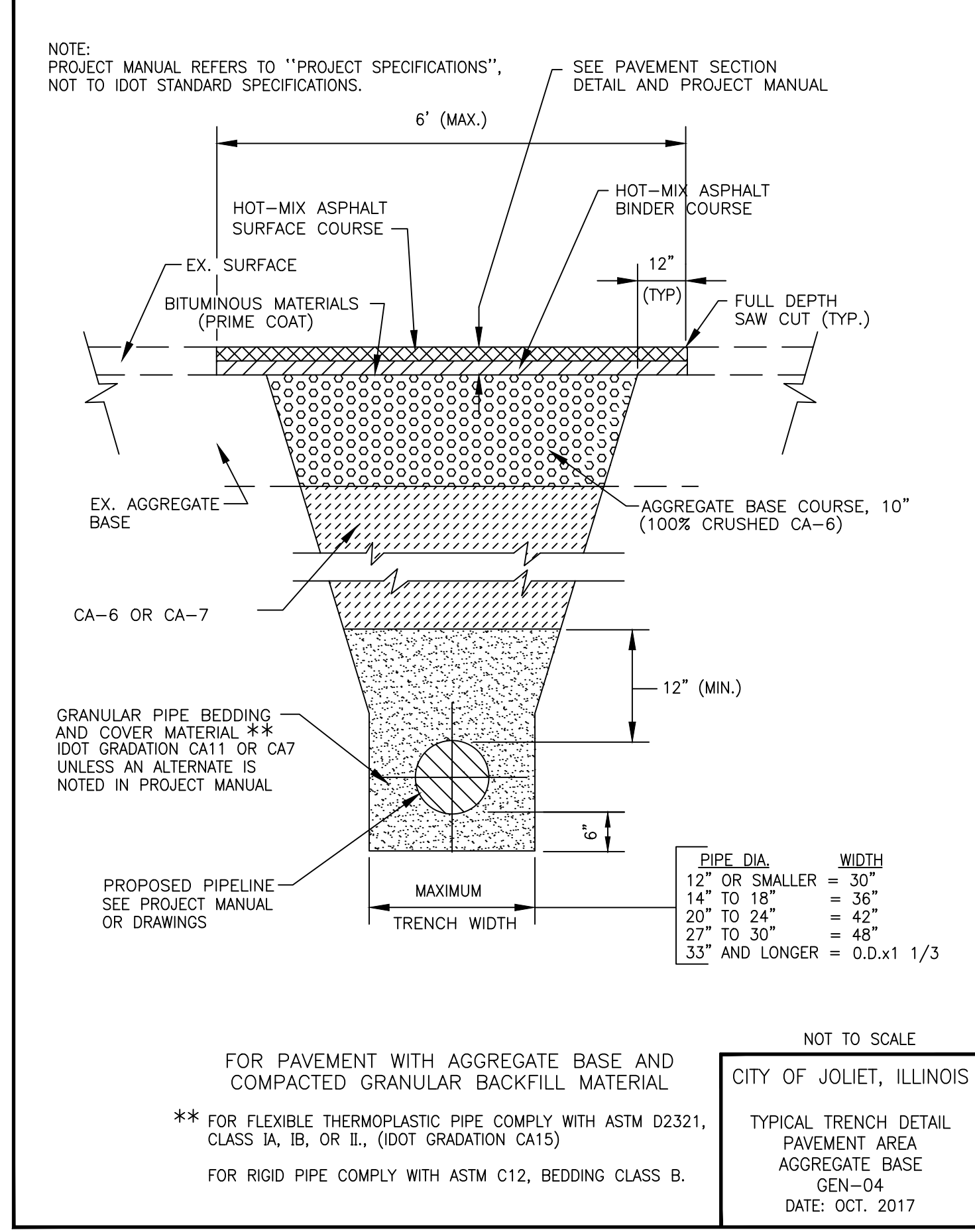
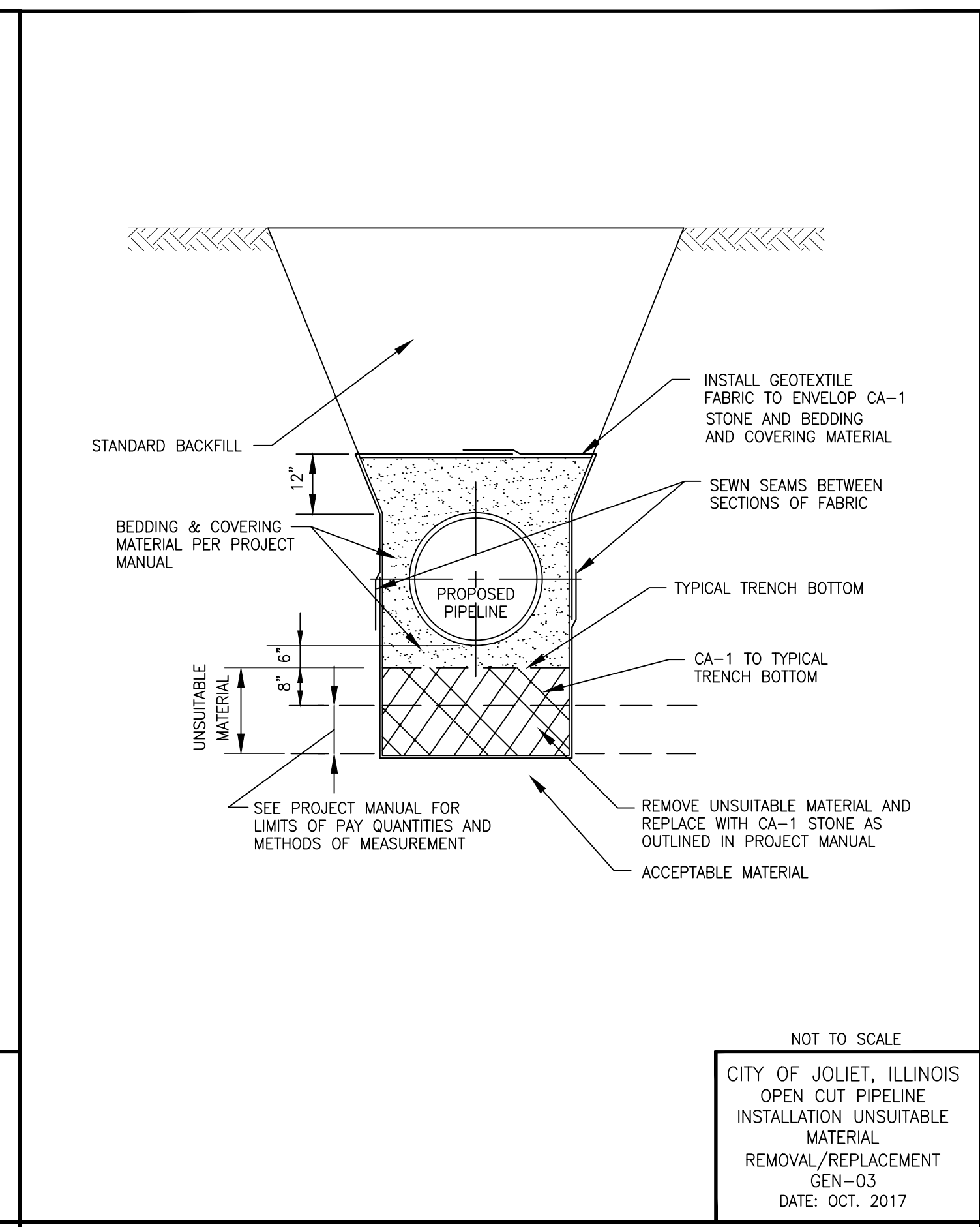
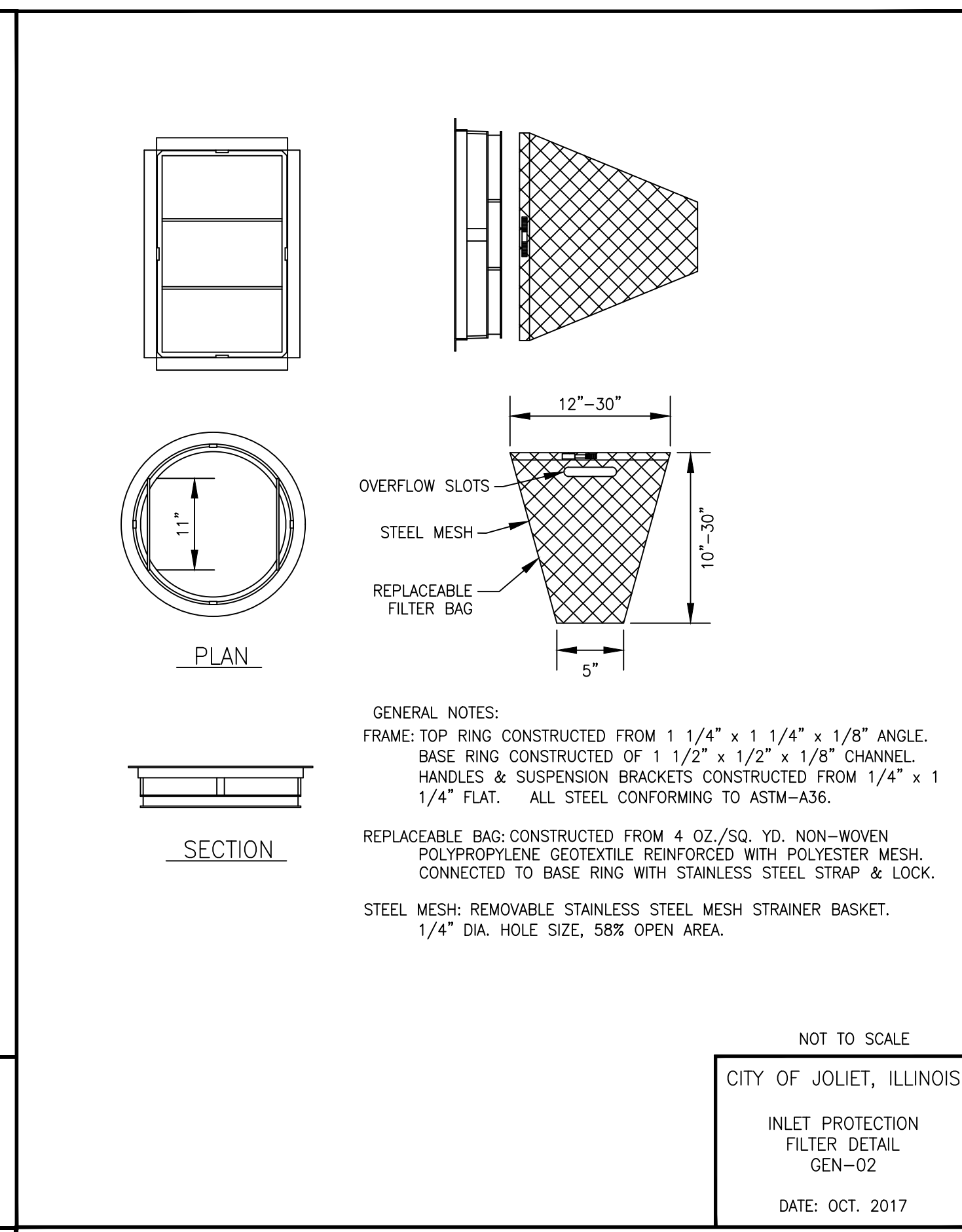
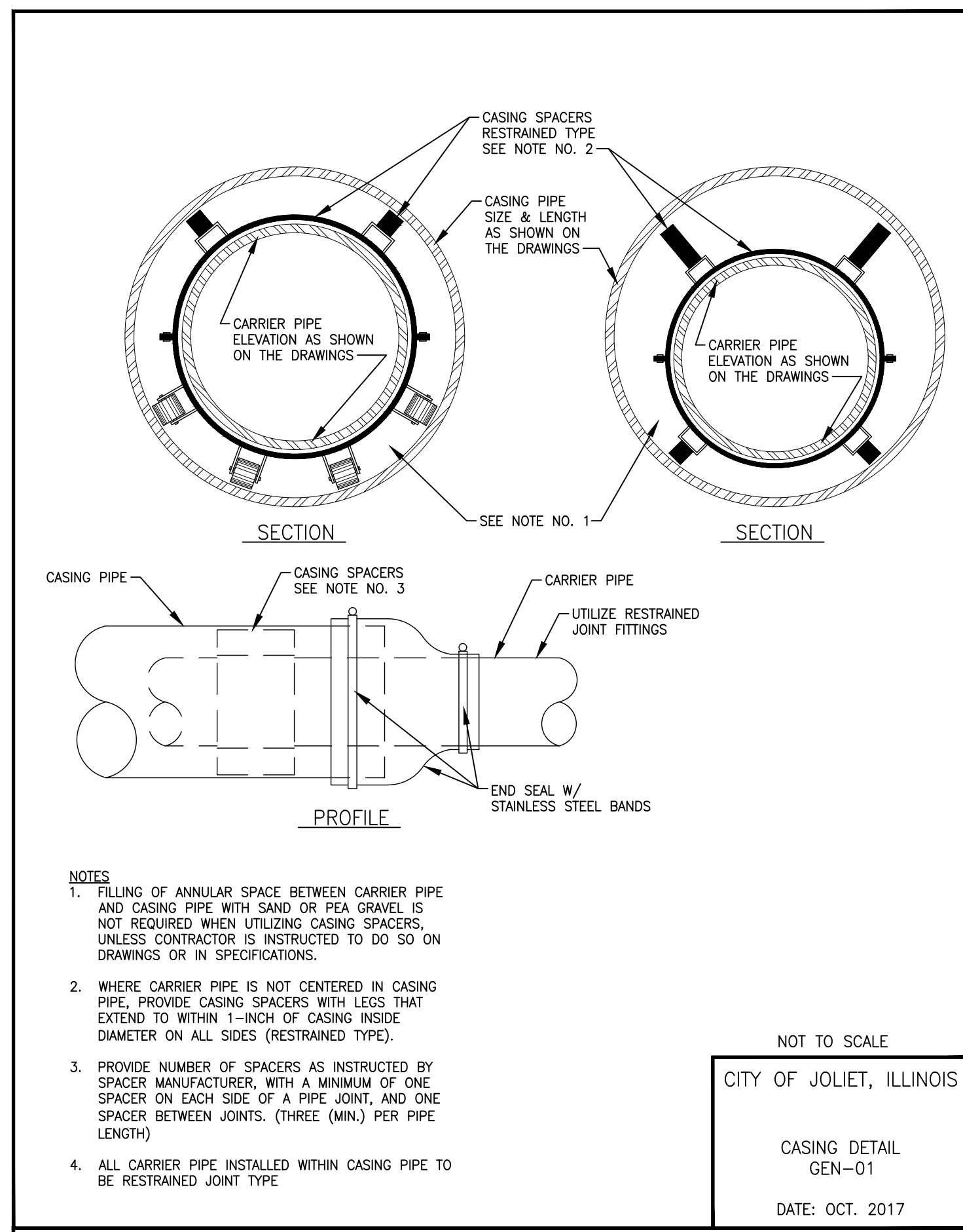
CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

CLARA AVENUE STA. 179+00 TO STA. 183+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'
 PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	20
CHECKED - MJK		
DATE - 10/10/2024		

FINAL DESIGN
 FOR BIDDING



P:\JOL\221587-2024 WATER MAIN SURV\CAD\KRINGS ACRES PHASE 2\01_CIVIL_3D\01_SHITS-PLANS\221587-KRINGS ACRES PHASE 2B_COVER_GEN_DET.DWG DETAILS
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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

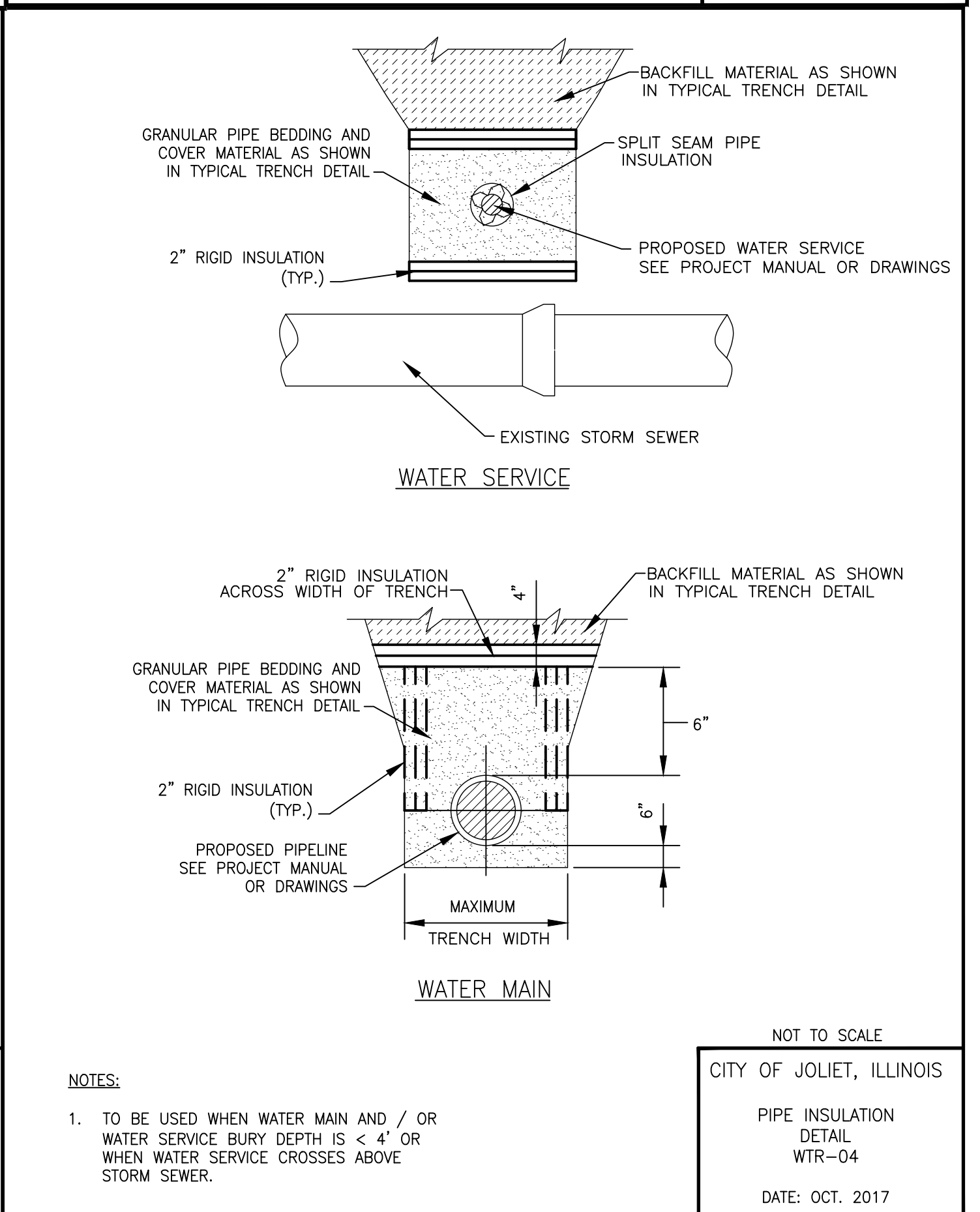
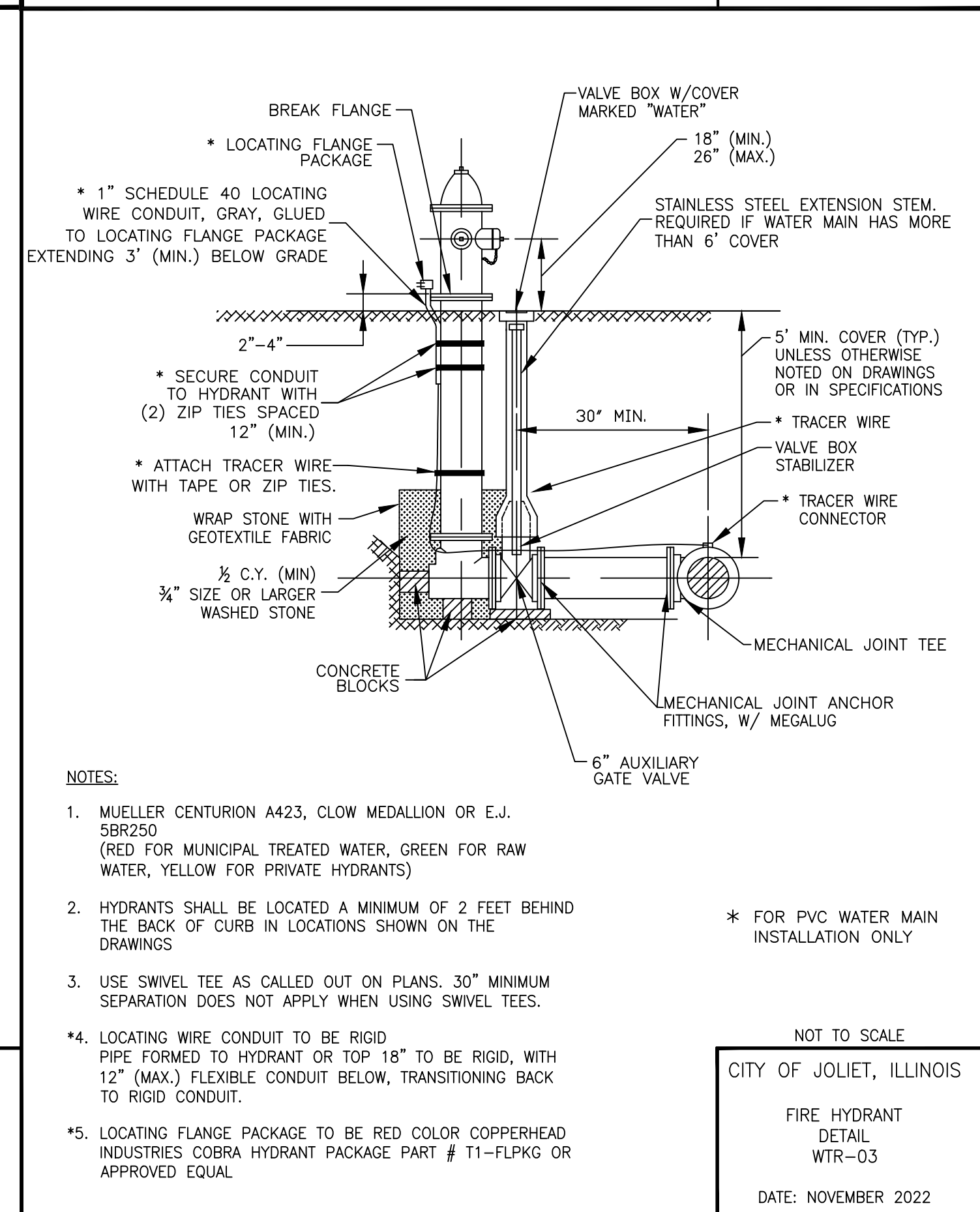
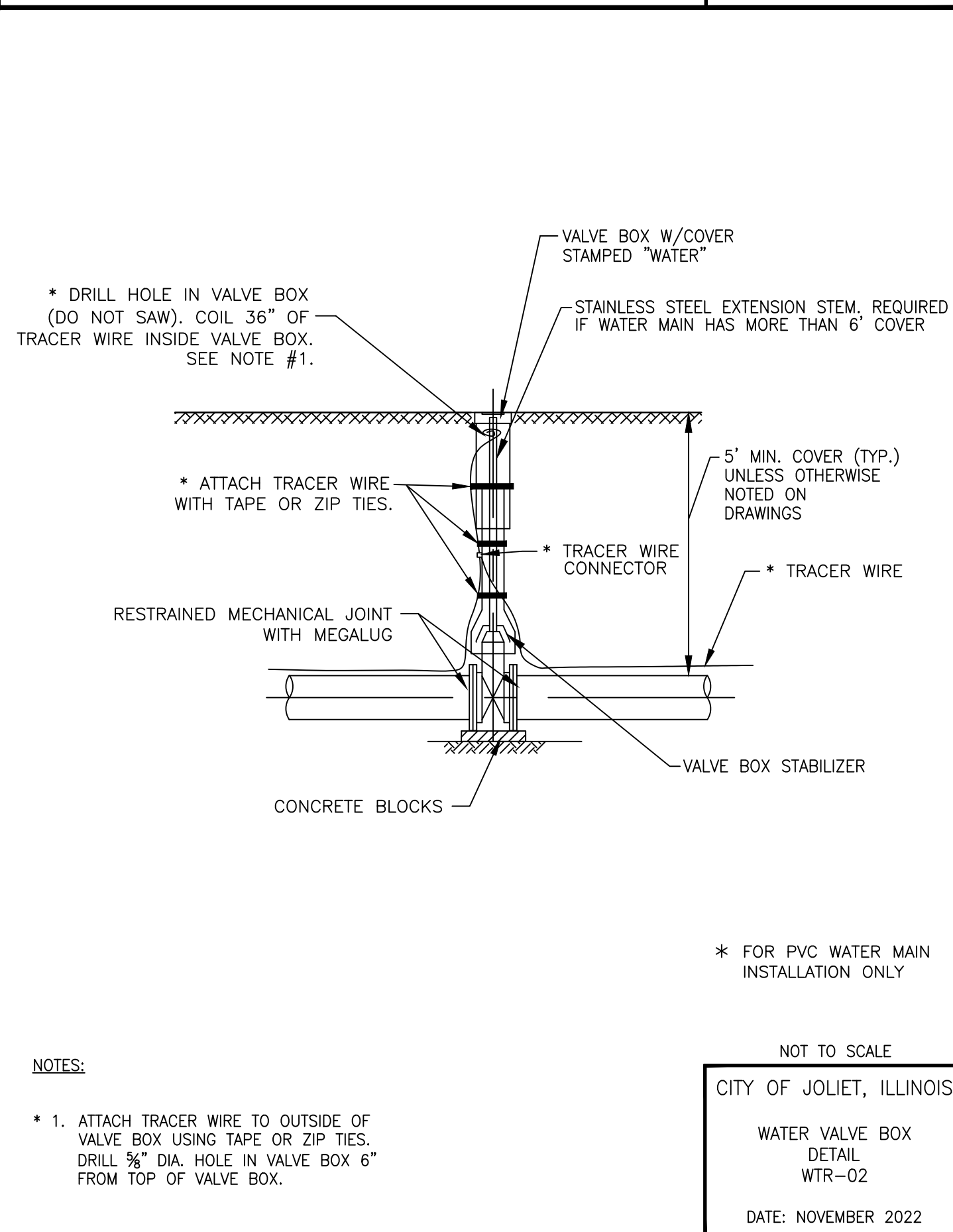
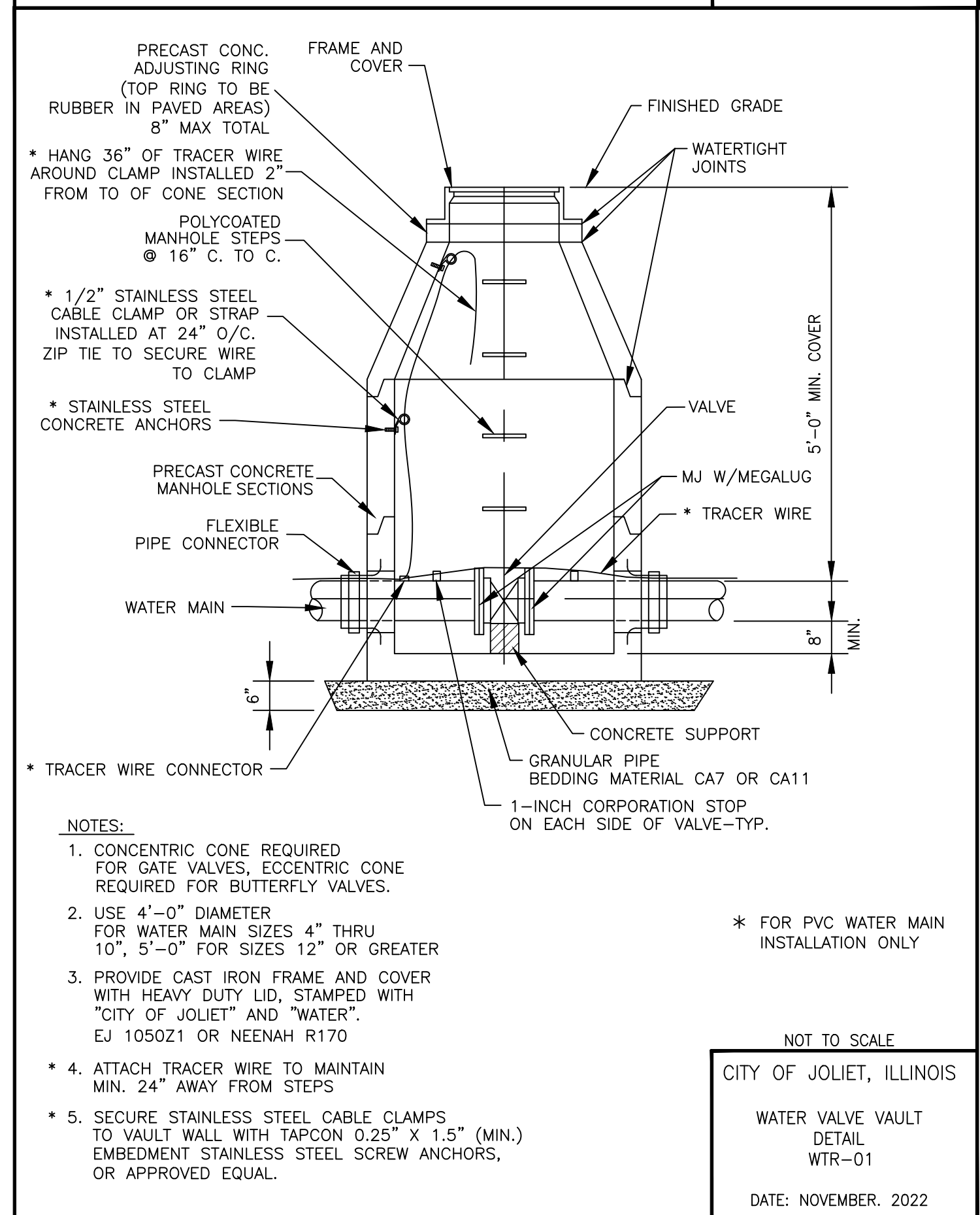
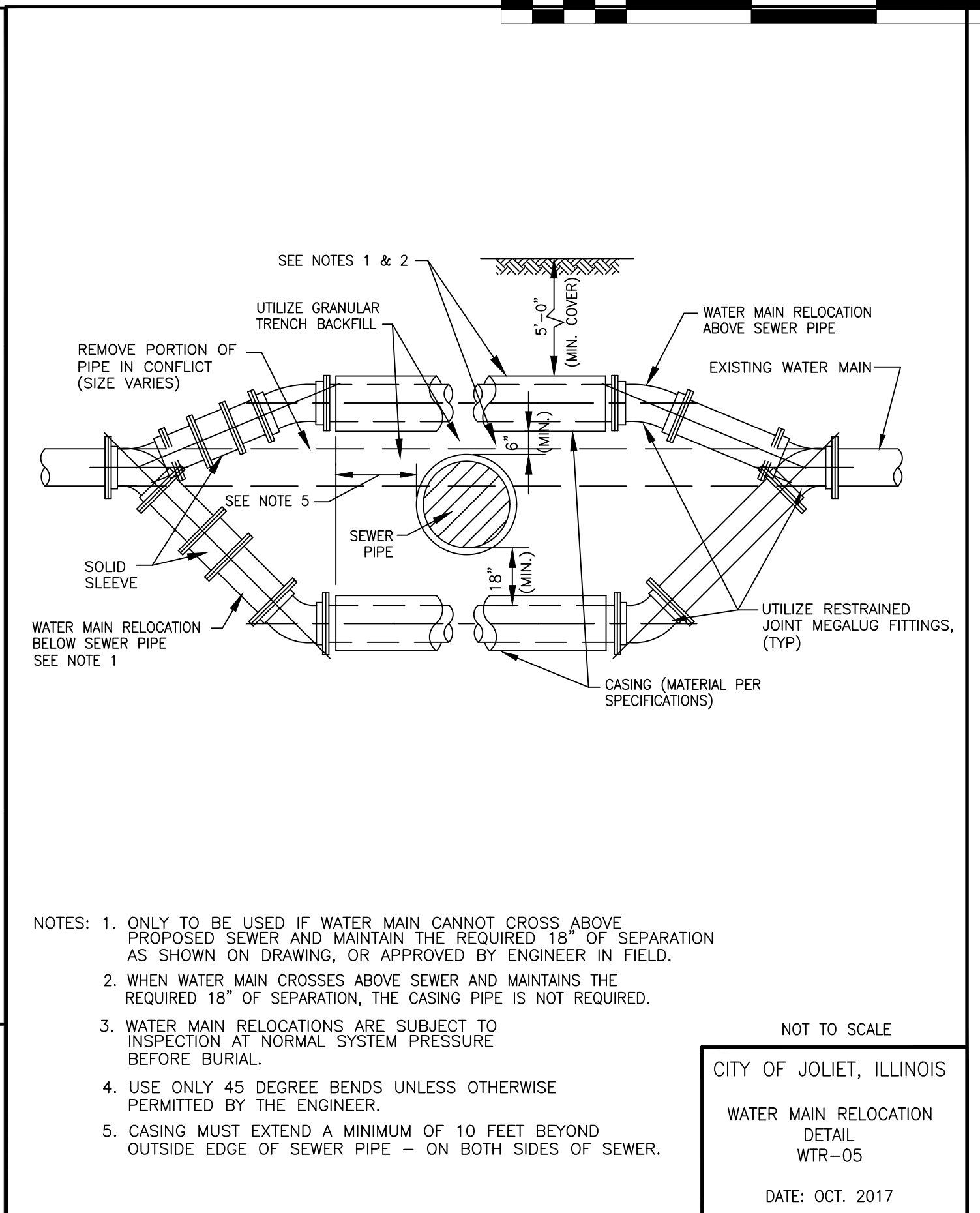
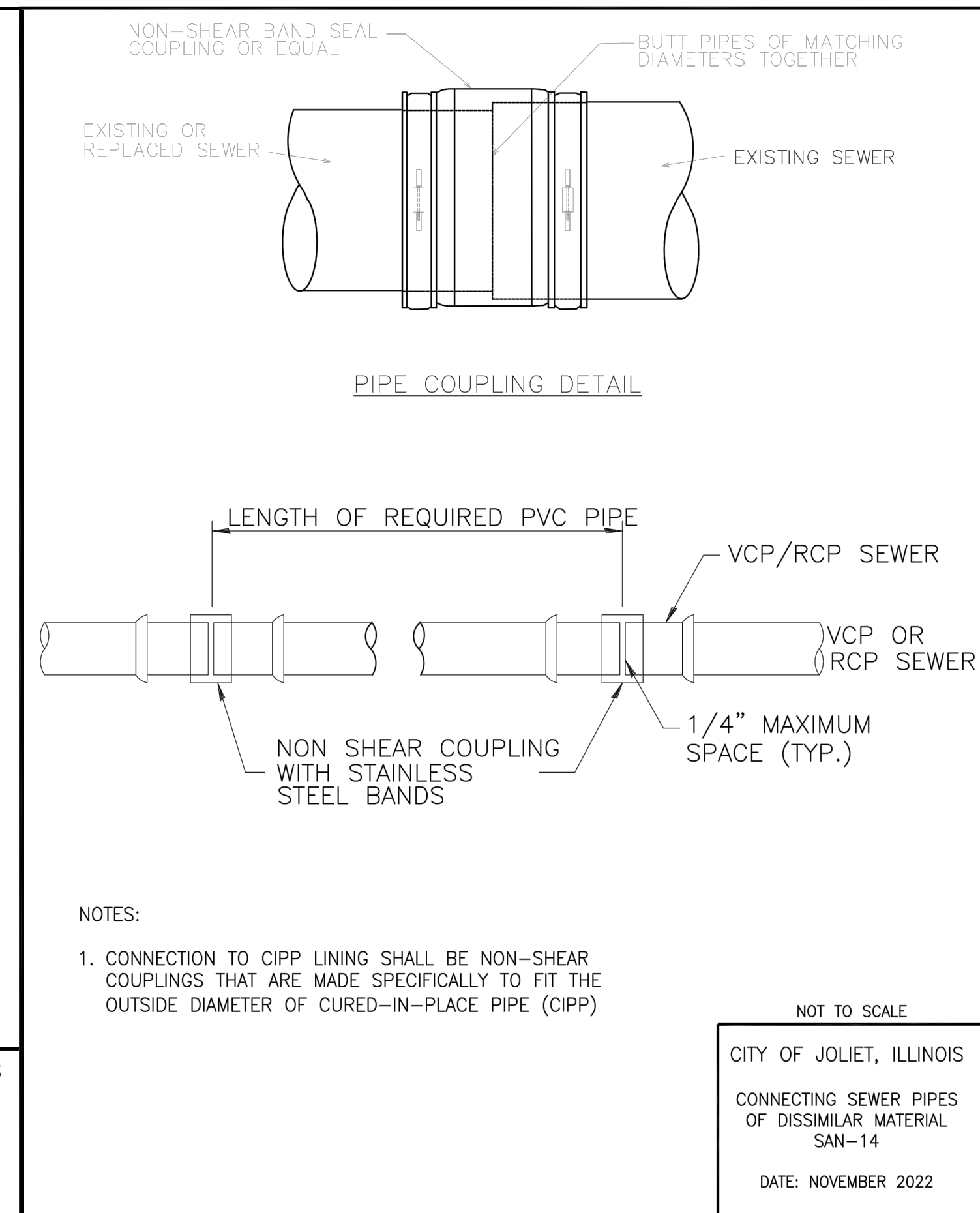
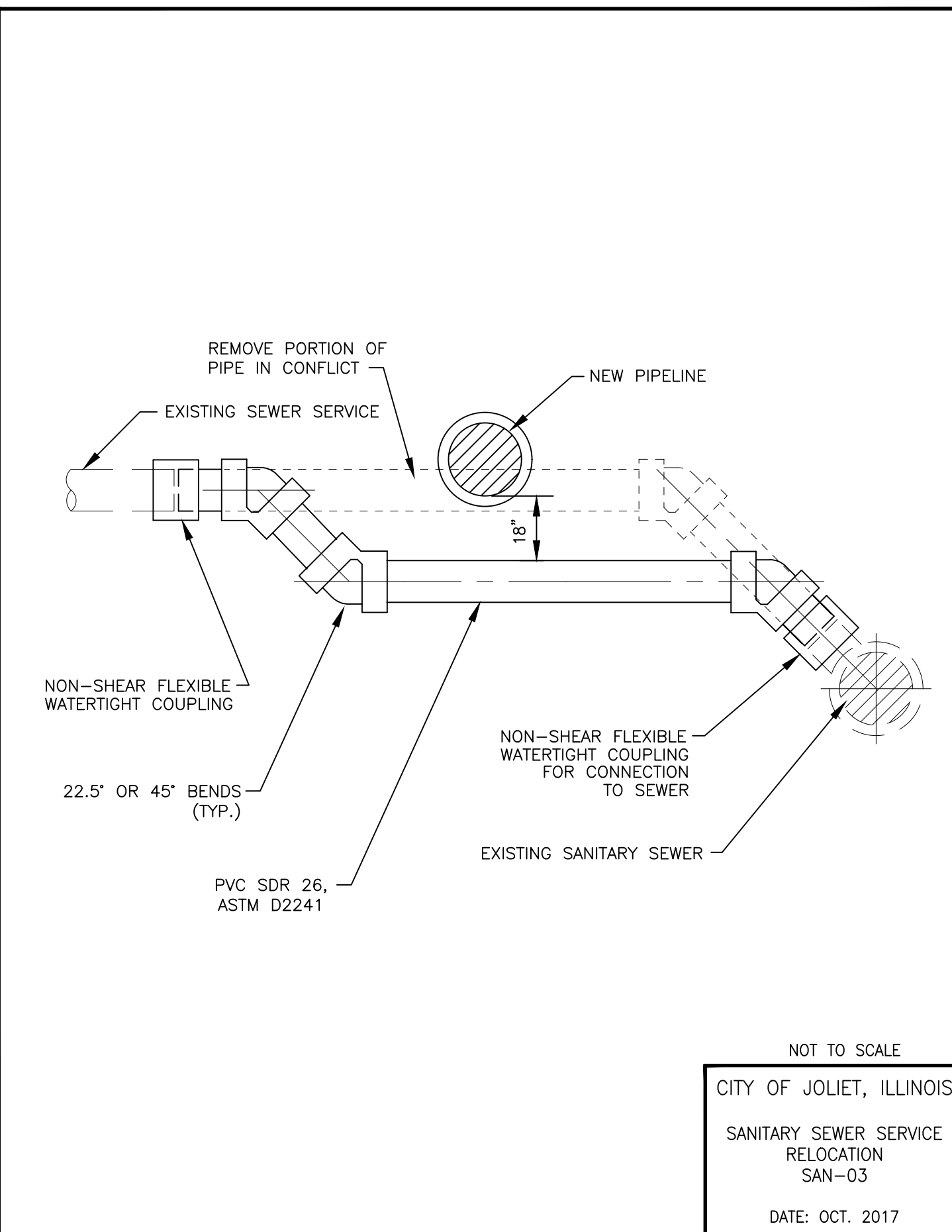
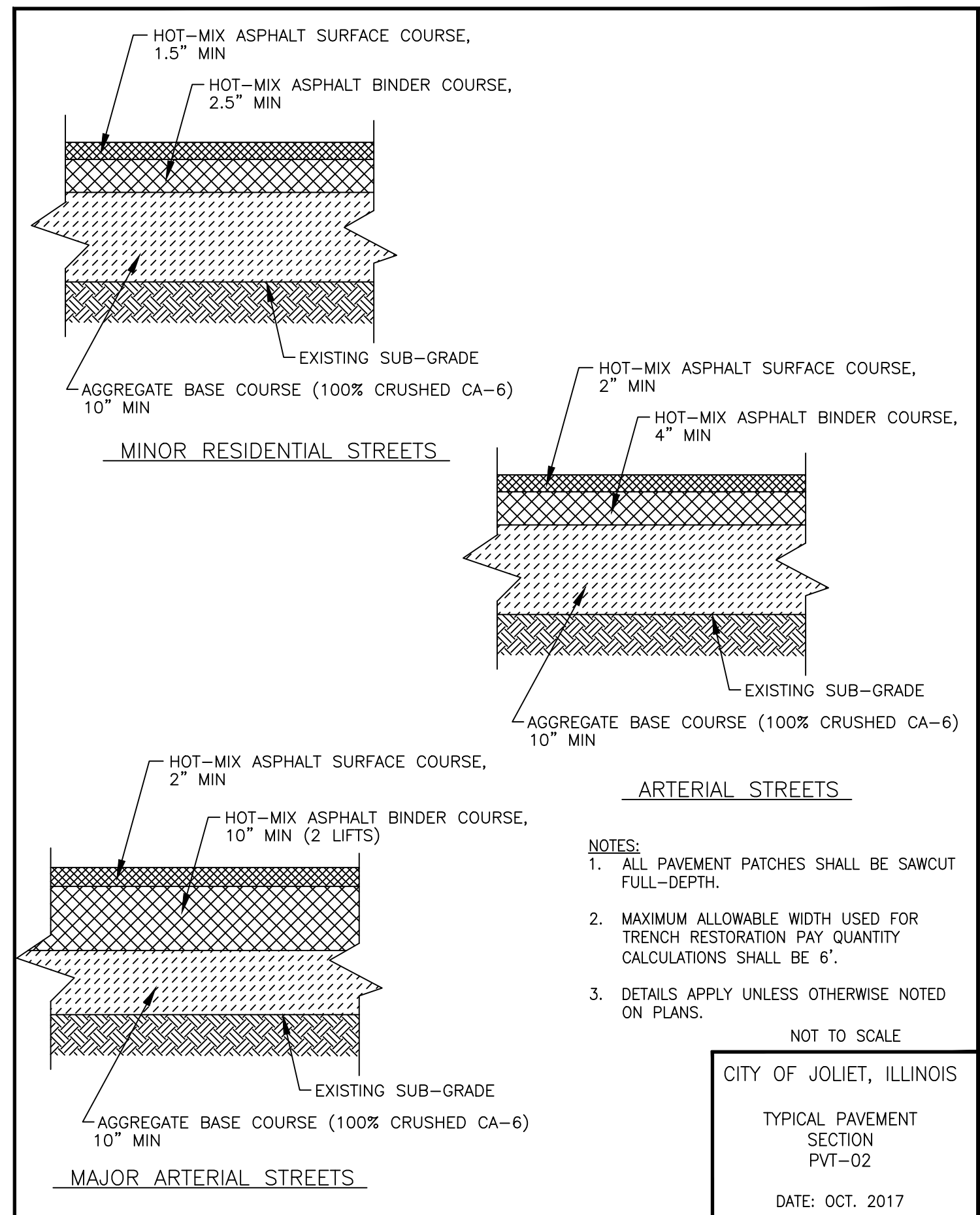
SCALE: AS NOTED
 PROJECT NO: 221587.40

DESIGNED -	TOTAL SHEETS	SHEET NO.
ACM	23	21
DRAWN - JJS		
CHECKED - MJK		
DATE - 10/10/2024		

FINAL DESIGN FOR BIDDING

P:\JOLIO\221587-2024 WATER MAIN SURV\CAD\KINGS ACRES PHASE 2\01_CIVIL_3D\01_SHTS-PLANS\221587-KRINGS ACRES PHASE 2B_COVER_GEN_DETALS.DWG

Plotted: 10/9/2024 9:24 AM By: JSLAGER
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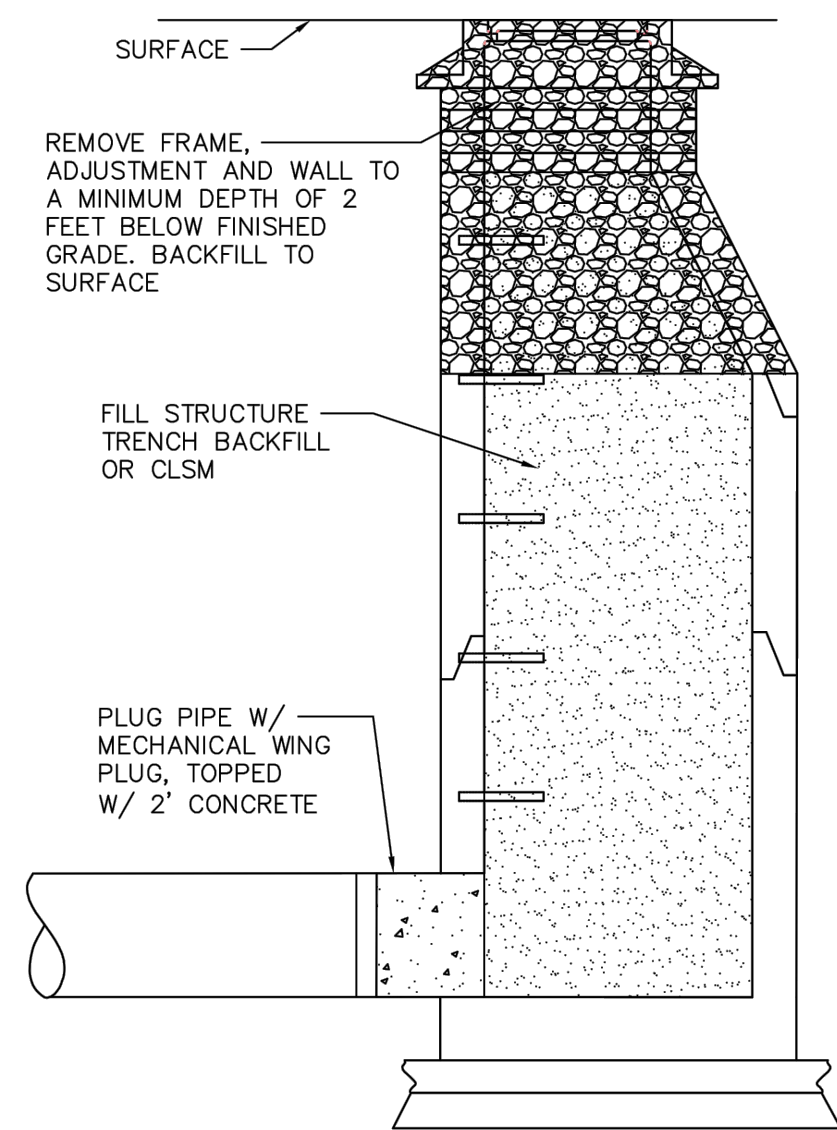


CONSULTANTS	REVISED -
	REVISED -
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CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

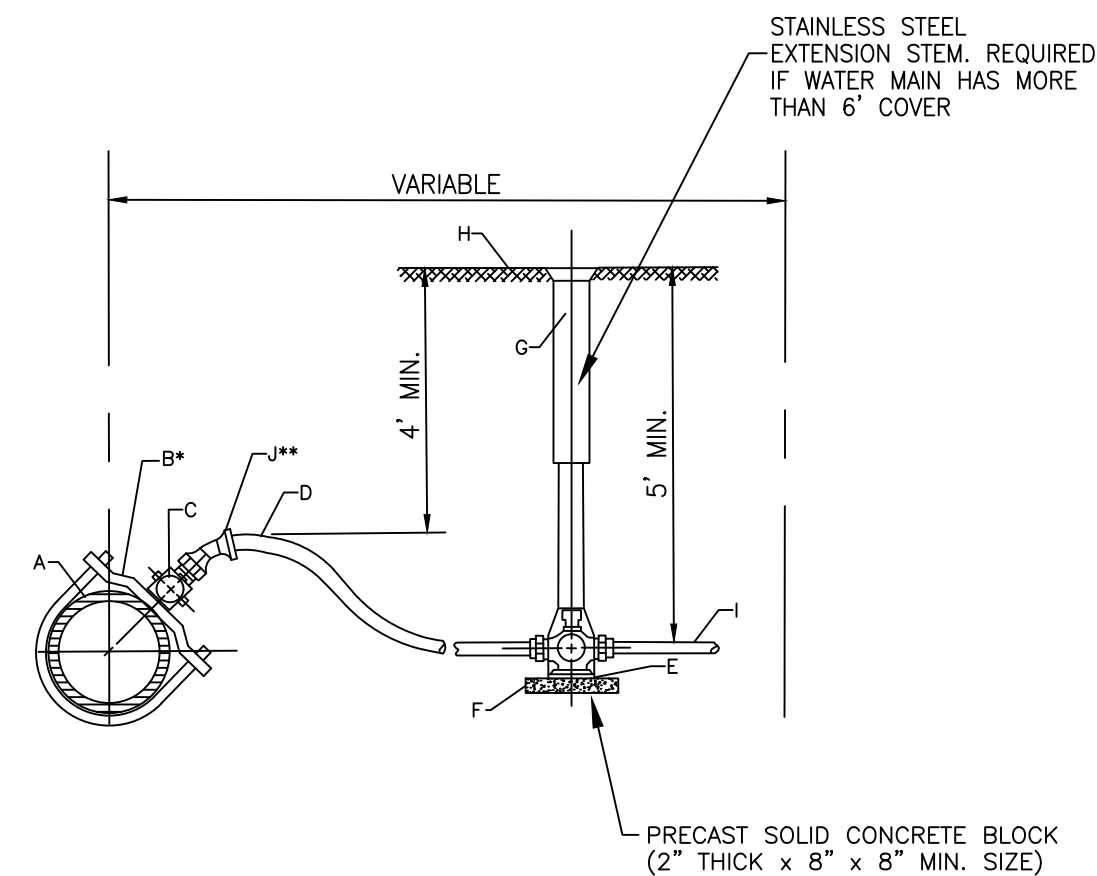
SCALE:	AS NOTED	PROJECT NO:	221587.40	DESIGNED -	ACM	TOTAL SHEETS	23	SHEET NO.	22
				DRAWN -	JJS				
				CHECKED -	MJK				
				DATE -	10/10/2024				

FINAL DESIGN FOR BIDDING



- NOTE:**
- ALL CONNECTING PIPES SHALL BE PLUGGED WITH MECHANICAL WING PLUGS OF THE SPECIFIED DIAMETER AND TOPPED WITH CONCRETE PLUG. BRICK AND MORTAR PLUGS WILL NOT BE ACCEPTABLE IN LIEU OF CONCRETE.
 - THE MINIMUM THICKNESS OF THE CONCRETE TO THE PLUG SHALL BE TWO PIPE DIAMETERS UP TO 24 INCHES.
 - CONTRACTOR SHALL REMOVE FRAME, COVER, CONE AND ADJUSTMENT RINGS OF THE MANHOLE STRUCTURES, AND CONE/FLAT-TOP/WALL TO A MINIMUM OF TWO (2') FEET BELOW FINISHED GRADE.
 - REMAINDER OF THE STRUCTURE IS TO BE FILLED WITH TRENCH BACKFILL.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ADJUSTMENT RINGS, FRAME AND COVER MUST BE RETURNED TO THE CITY.

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 STRUCTURE ABANDONMENT
 SAN-15
 DATE: NOVEMBER 2022

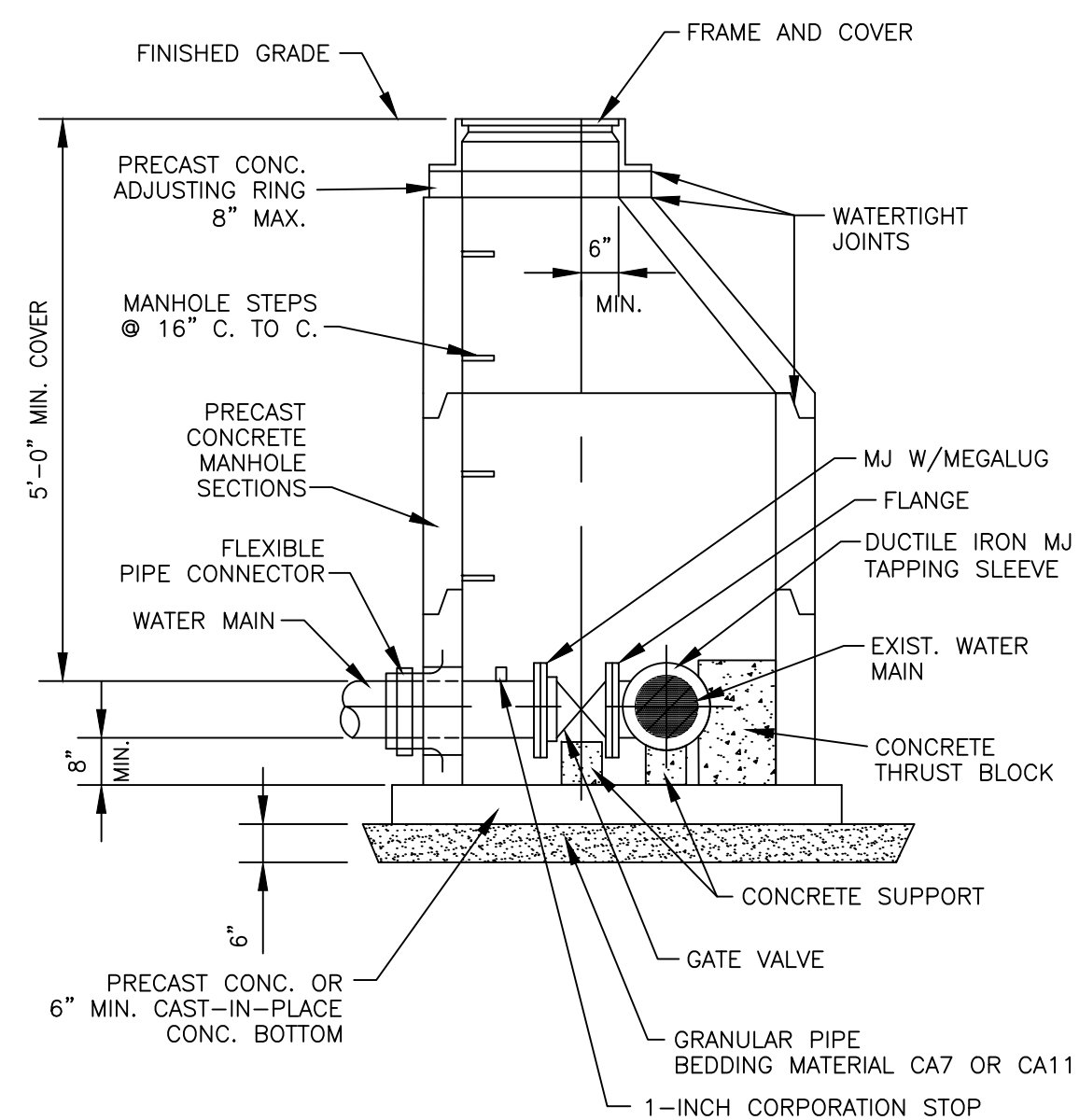


- *REQUIRED FOR SERVICES LARGER THAN 1"
- **REQUIRED FOR SERVICES WITH LESS THAN 4" COVER

- CONSTRUCTION NOTES**
- WATER MAIN
 - DUCTILE IRON, EPOXY COATED BODIES WITH DOUBLE ALLOY STEEL STRAPS AND DOUBLE BOLTS (FOUR BOLTS TOTAL). MUELLER DR2A SERIES OR EQUAL
 - CORPORATION STOP, A.Y. MCDONALD 74701 BQ
 - SERVICE PIPE, SEAMLESS SOFT TEMPERED COPPER TYPE - TYPE "K" 1" OR LARGER
 - CURB STOP, A.Y. MCDONALD 76104Q
 - CONCRETE BRICK SUPPORT
 - TYLER 6500 WITH BBAF VALVE BOX STABILIZER OR APPROVED EQUAL
 - FINISHED GRADE
 - CONNECT TO EXISTING SERVICE, PROVIDE ADAPTERS AS REQUIRED
 - EIGHTH BEND COMPRESSION COUPLING - UNION

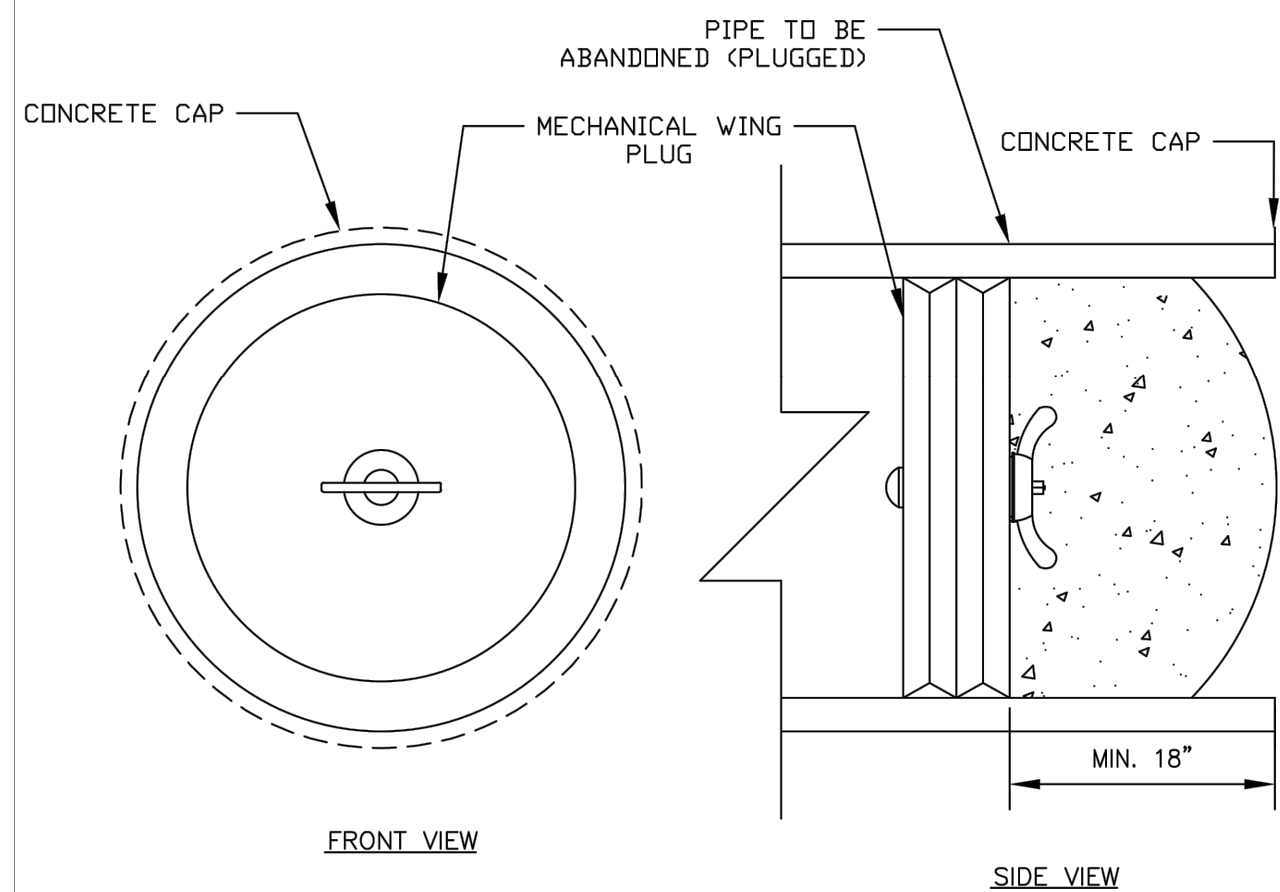
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 WATER SERVICE
 CONNECTION DETAIL
 WTR-06
 DATE: OCT. 2020



- NOTES:**
- ECCENTRIC CONE REQUIRED
 - USE 4"-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8", USE 5"-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 14", USE 6"-0" DIAMETER (OR LARGER PER DESIGNER) FOR WATER MAIN SIZES 16" OR GREATER.
 - PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 105021

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 PRESSURE CONNECTION
 DETAIL
 WTR-07
 DATE: OCT. 2017



- NOTE:**
- PIPES TO BE PLUGGED AND ABANDONED ARE TO BE CLEARED OF ANY DEBRIS PRIOR TO ABANDONMENT.
 - MECHANICAL WING PLUG TO BE INSERTED A MIN. OF 18 INCHES OR THE DIAMETER OF THE PIPE, WHICHEVER IS GREATER.
 - A CONCRETE CAP IS TO BE PLACED ON THE ABANDONED PIPE AFTER THE MECHANICAL WING PLUG HAS BEEN PROPERLY INSTALLED.
 - THE MECHANICAL WING PLUG MUST BE PRESSURE RATED GREATER THAN THE HEAD PRESSURE OF THE DEPTH OF THE PIPE.
 - BRICK AND MORTAR PLUGS WILL NOT BE ACCEPTABLE IN LIEU OF CONCRETE.

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 PLUG PIPE DETAIL
 SAN-18
 DATE: NOVEMBER 2022

FITTING TYPE	DUCTILE IRON-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)					
	DIAMETER (IN)					
	4"	6"	8"	10"	12"	16"
HORIZONTAL BEND						
11.25'	5	5	5	5	5	5
22.5'	5	5	5	5	10	10
45'	5	10	10	10	15	15
90'	15	20	20	25	30	40
VERTICAL BEND						
45'	20	25	35	40	45	60
TEE	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	20	30	35	45	50	65
VALVE (TESTING PRESSURE)	40	60	75	90	105	135
REDUCER						
6" NOMINAL PIPE	30	-	-	-	-	-
8" NOMINAL PIPE	55	35	-	-	-	-
10" NOMINAL PIPE	75	55	30	-	-	-
12" NOMINAL PIPE	90	80	55	35	-	-
16" NOMINAL PIPE	125	115	100	80	60	-

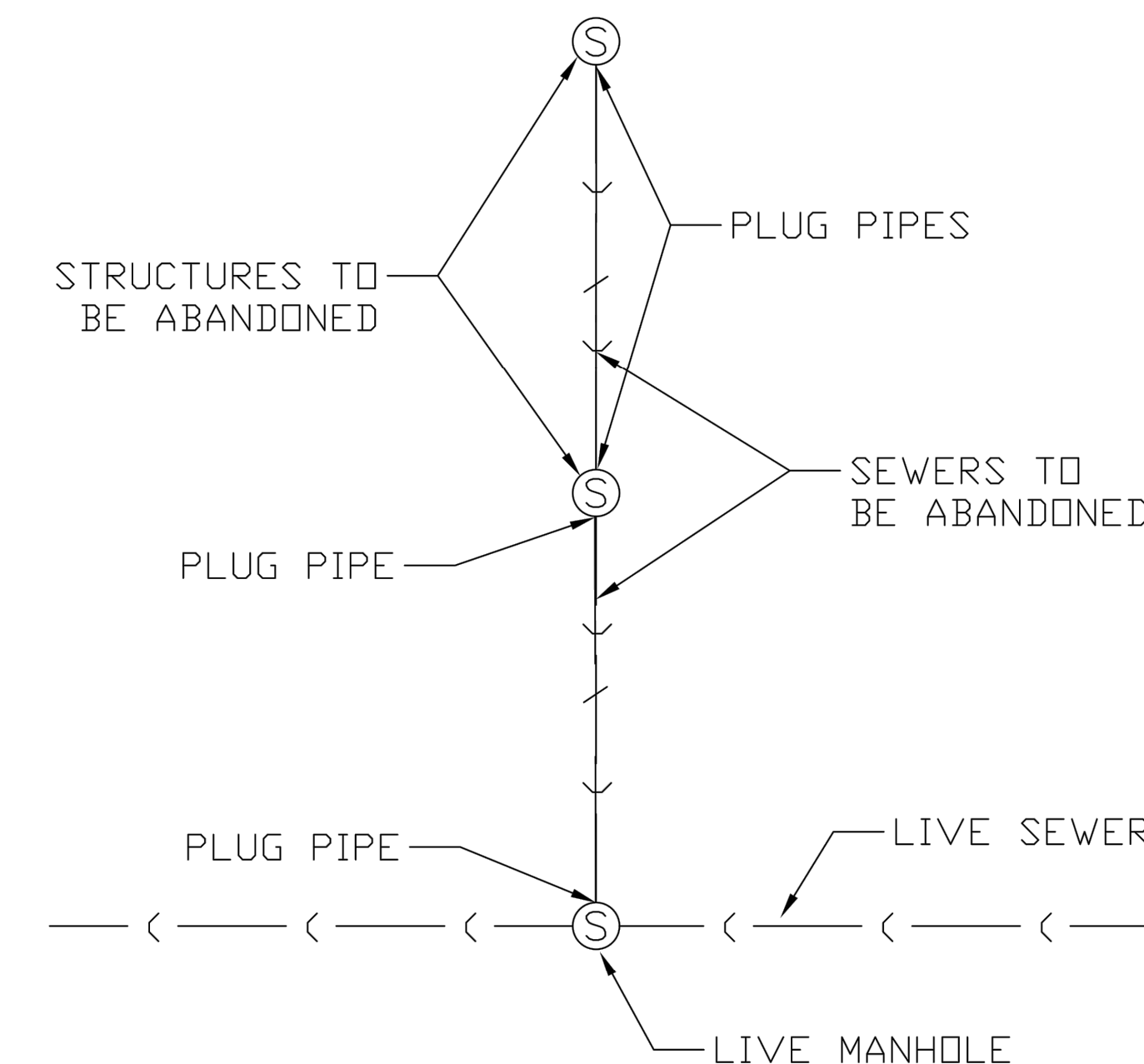
NOTE:
 RJT LENGTHS MAY VARY DEPENDING ON SITE CONDITIONS. LENGTHS SHOWN ARE MINIMUM PER 5' BURY DEPTH OF WATER MAIN AND, AGGREGATE PIPE BACKFILL.

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 POLYWRAPPED DI RJT
 DETAIL
 WTR-09
 DATE: NOVEMBER 2022

FITTING TYPE	PVC-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)					
	DIAMETER (IN)					
	4"	6"	8"	10"	12"	16"
HORIZONTAL BEND						
11.25'	5	5	5	5	5	5
22.5'	5	5	5	5	5	10
45'	5	10	10	10	15	15
90'	10	15	15	20	25	35
VERTICAL BEND						
45'	15	15	20	25	30	40
TEE	5	5	5	5	5	5
VALVE (OPERATING PRESSURE)	15	20	25	30	35	45
VALVE (TESTING PRESSURE)	30	40	50	60	70	90
REDUCER						
6" NOMINAL PIPE	20	-	-	-	-	-
8" NOMINAL PIPE	35	20	-	-	-	-
10" NOMINAL PIPE	50	35	20	-	-	-
12" NOMINAL PIPE	60	50	40	20	-	-
16" NOMINAL PIPE	80	75	65	55	40	-

NOTE:
 RJT LENGTHS MAY VARY DEPENDING ON SITE CONDITIONS. LENGTHS SHOWN ARE MINIMUM PER 5' BURY DEPTH OF WATER MAIN AND, AGGREGATE PIPE BACKFILL.

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 PVC RJT DETAIL
 WTR-09
 DATE: NOVEMBER 2022



- NOTE:**
- REMOVE ABANDONED SEWERS IF WITHIN TRENCH OR IF DIRECTED BY ENGINEER.
 - FILL ABANDONED PIPES WITH CLSM IF WITHIN IDOT, COUNTY OR RAIL ROAD RIGHT OF WAY.
 - FILL ABANDONED PIPES WITH CLSM IF PIPE DIAMETER IS 15-INCHES OR GREATER.
 - PLUG ALL PIPES IN STRUCTURES TO BE ABANDONED
 - ABANDON STRUCTURES PER THE "ABANDONMENT OF STRUCTURES" DETAIL (SAN-15).

NOT TO SCALE
 CITY OF JOLIET, ILLINOIS
 ABANDONMENT OF SEWERS
 SAN-16
 DATE: NOVEMBER 2022

FINAL DESIGN
 FOR BIDDING

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 Consulting Engineers

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	REVISED -
	REVISED -

CITY OF JOLIET, ILLINOIS
KRINGS ACRES PHASE 2B WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2848-0125

SCALE: AS NOTED

CONSTRUCTION DETAILS

PROJECT NO: 221587.40

DESIGNED - ACM	TOTAL SHEETS	SHEET NO.
DRAWN - JJS	23	23
CHECKED - MJK		
DATE - 10/10/2024		