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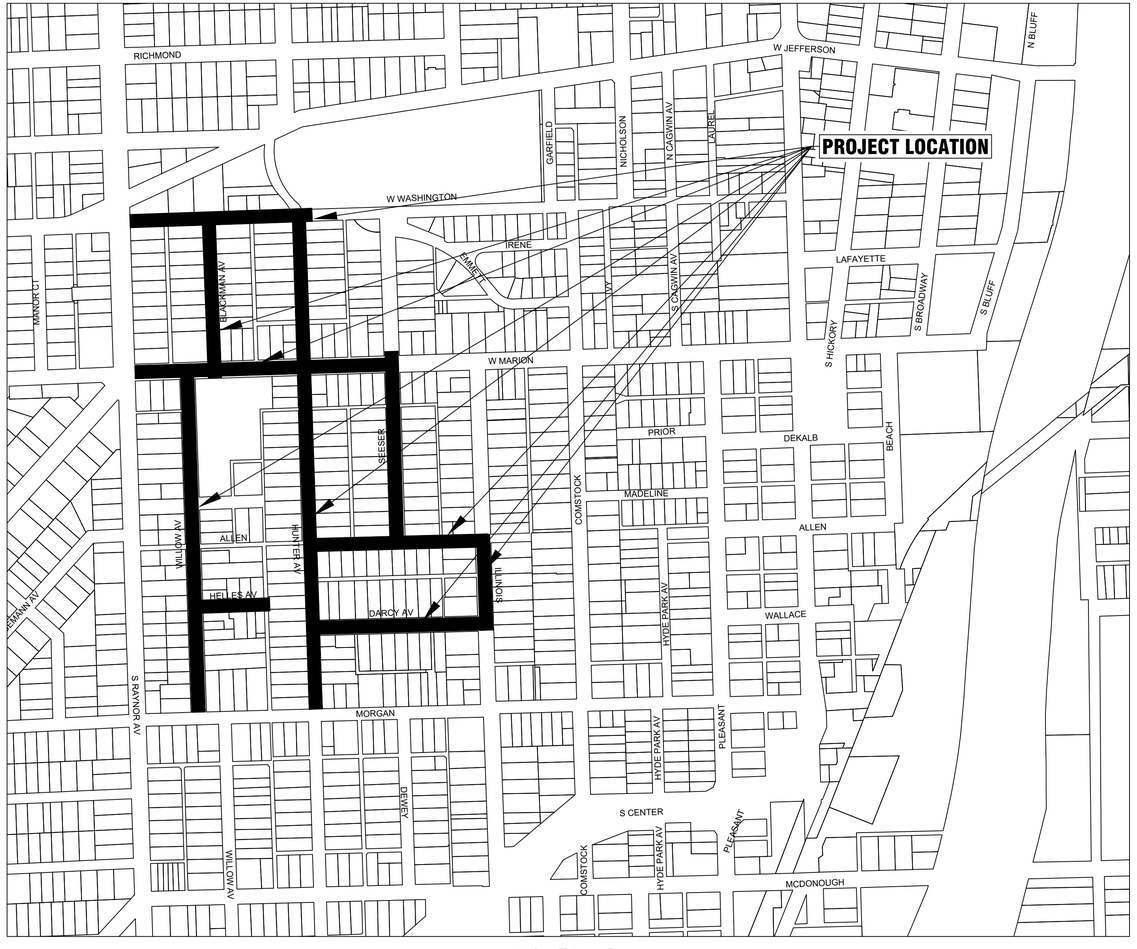
CITY OF JOLIET, ILLINOIS

ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS

CITY OF JOLIET CONTRACT NO.2689-0123

WATER MAIN REPLACEMENT IEPA LOAN NO. L17-6074

LEAD SERVICE REPLACEMENT IEPA LOAN NO. L17-5746



VICINITY MAP

NO SCALE

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	ST PATS PHASE 1A WATER MAIN IMPROVEMENTS SHEET KEY
3	LEGENDS, BENCHMARKS, AND ABBREVIATIONS
4	GENERAL NOTES AND SUMMARY OF QUANTITIES
5	WASHINGTON STREET STA. 10+00 TO STA.15+00 PLAN AND PROFILE
6	WASHINGTON STREET STA. 15+00 TO STA. 20+00 PLAN AND PROFILE
7	MARION STREET STA. 40+00 TO STA. 45+50 PLAN AND PROFILE
8	MARION STREET STA. 45+50 TO STA. 49+50 PLAN AND PROFILE
9	MARION STREET STA. 49+50 TO STA. 52+50 PLAN AND PROFILE
10	W. ALLEN STREET STA. 80+00 TO STA. 84+50 PLAN AND PROFILE
11	W. ALLEN STREET STA. 84+50 TO STA. 87+50 PLAN AND PROFILE
12	HELLES AVENUE STA. 100+00 TO STA. 103+00 PLAN AND PROFILE
13	DARCY AVENUE STA. 110+00 TO STA. 113+50 PLAN AND PROFILE
14	DARCY AVENUE STA. 113+50 TO STA. 117+50 PLAN AND PROFILE
15	WILLOW AVENUE STA. 120+00 TO STA. 125+50 PLAN AND PROFILE
16	WILLOW AVENUE STA. 125+50 TO STA. 130+00 PLAN AND PROFILE
17	WILLOW AVENUE STA. 130+00 TO STA. 134+50 PLAN AND PROFILE
18	BLACKMAN AVENUE STA. 140+00 TO STA. 143+50 PLAN AND PROFILE
19	BLACKMAN AVENUE STA. 143+50 TO STA. 147+00 PLAN AND PROFILE
20	HUNTER AVENUE STA. 150+00 TO STA. 155+00 PLAN AND PROFILE
21	HUNTER AVENUE STA. 155+00 TO STA. 160+00 PLAN AND PROFILE
22	HUNTER AVENUE STA. 160+00 TO STA. 165+00 PLAN AND PROFILE
23	HUNTER AVENUE STA. 165+00 TO STA. 171+00 PLAN AND PROFILE
24	SEESER STREET STA. 175+00 TO STA. 180+00 PLAN AND PROFILE
25	SEESER STREET STA. 180+00 TO STA. 184+00 PLAN AND PROFILE
26	ILLINOIS STREET STA. 190+00 TO STA. 195+00 PLAN AND PROFILE
27	DETAILS
28	DETAILS
29	DETAILS

J.U.L.I.E. DESIGN STAGE REQUEST
DIG NO. A220470432
EXISTING UTILITIES:
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.

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1" .5" 0 1" 2" 3"

MICHAEL KENNY
062-070246
LICENSED PROFESSIONAL ENGINEER
OF
STATE OF ILLINOIS

PROJECT MANAGER
"LICENSE EXPIRES 11-30-2023"

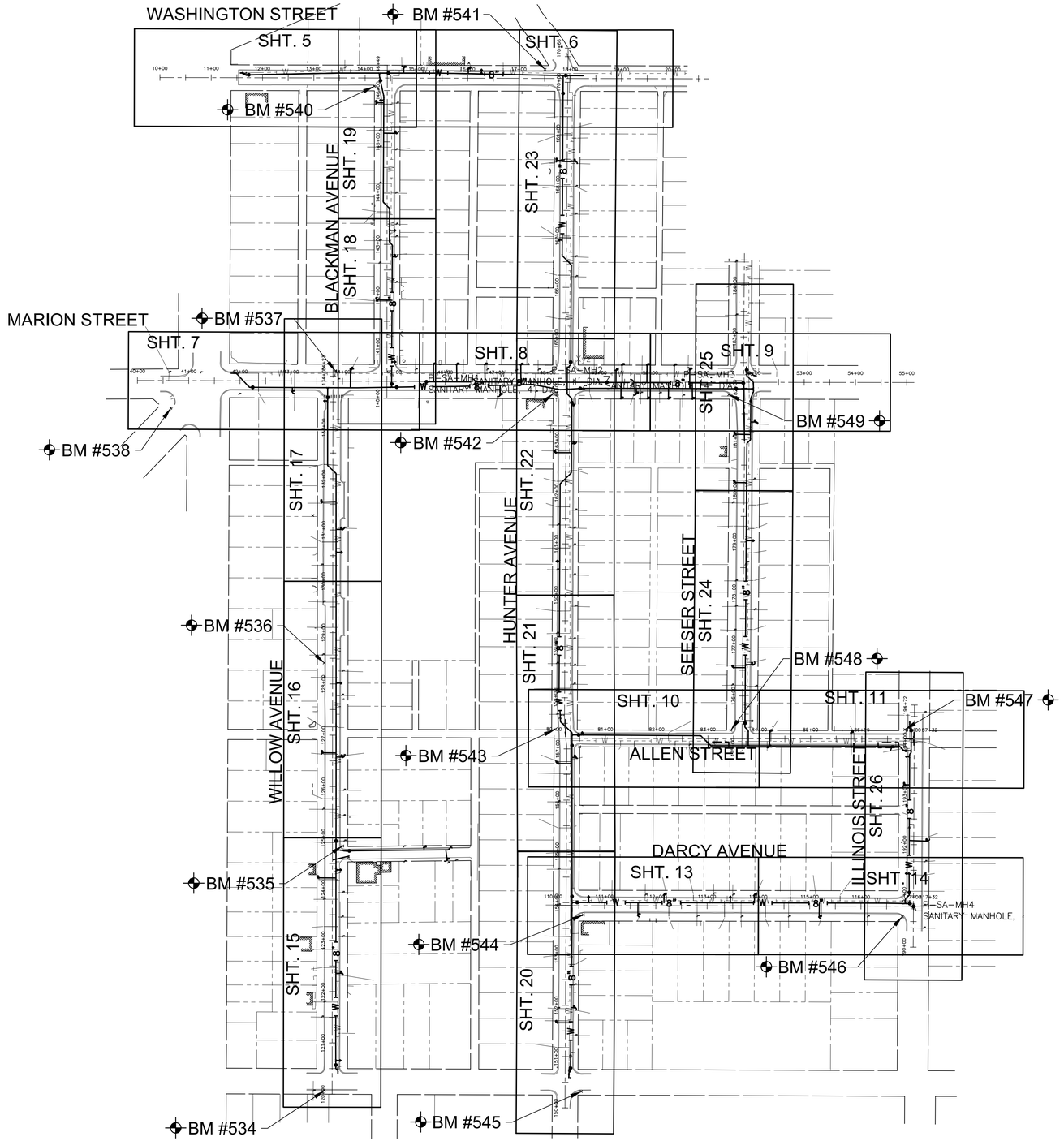
Eileen M Kennedy
PROJECT ENGINEER

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PROJECT NO.: 211917 DATE: 11/07/22

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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

ST PATS PHASE 1A WATER MAIN IMPROVEMENTS SHEET KEY

SCALE: AS NOTED | PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – EMK			
DRAWN – JJS		29	2
CHECKED – MJK			
DATE – 11/07/22			

LEGEND

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

LEGEND

EXISTING		PROPOSED
EM	ELECTRIC METER	
ET	PAD MOUNTED TRANSFORMER	
EV	ELECTRIC VAULT	
JB	JUNCTION BOX	
	UTILITY POLE	
	UTILITY POLE w/ GUY ANCHOR	
	UTILITY POLE w/ LIGHT	
	LIGHT STANDARD	
MB	MAIL BOX	
	STREET SIGN	
	RAILROAD SIGNAL	
	TRAFFIC SIGNAL CONTROLLER	
	TRAFFIC SIGNAL POST W/ SIGNAL HEAD	
	HANDHOLE	
12"	DECIDUOUS TREE (W/ TRUNK INCH DIA.)	12" (HATCHED SHALL BE REMOVED)
16'	CONIFEROUS TREE (W/ HEIGHT)	16' (HATCHED SHALL BE REMOVED)
	DECIDUOUS BUSH	
	CONIFEROUS BUSH	
	DEFINING EDGE OF BRUSH OR FORESTED AREA	
—x—x—x—x—	FENCE	
	GUARD RAIL	
	CULVERT (CMP UNLESS NOTED)	
— DL — DL —	DITCH	
EXIST. R.O.W.	RIGHT OF WAY (ROW)	
ROW	RIGHT OF WAY MONUMENT	
P.L. P.B.L.	UNFENCED PROPERTY LINE	
IP	IRON PIPE (PROPERTY CORNER)	
	CENTER LINE	
625.35 / 625.9 +25	PROPOSED EL./EXISTING EL. and STATION	
#	SOIL BORING AND NUMBER (APPROX. LOCATION)	
B.M. CP	BENCH MARK	
	SURVEY CONTROL POINT	
OH	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

1" .5" 0 1" 2" 3"

BENCHMARKS (NAVD 88 DATUM)

B.M. # 534 — RAILROAD SPIKE SET ON NORTH FACE POWER POLE LOCATED AT 729 MORGAN STREET
ELEV. = 638.28

B.M. # 535 — RAILROAD SPIKE SET ON SOUTH FACE POWER POLE LOCATED AT THE NORTHEAST CORNER OF WILLOW AVENUE AND HELLES AVENUE
ELEV. = 635.02

B.M. # 536 — RAILROAD SPIKE SET ON SOUTH FACE POWER POLE LOCATED AT 119 WILLOW AVENUE
ELEV. = 636.78

B.M. # 537 — RAILROAD SPIKE SET IN SOUTH FACE POWER POLE LOCATED AT MARION STREET AND WILLOW AVENUE
ELEV. = 642.47

B.M. # 538 — FLANGE BOLT ON NORTHWEST HYDRANT LOCATED AT THE CORNER OF GRAND BOULEVARD AND WEST MARION STREET
ELEV. = 642.74

B.M. # 540 — RAILROAD SPIKE SET IN NORTHEAST FACE POWER POLE LOCATED AT THE SOUTHWEST CORNER OF WASHINGTON STREET AND BLACKMAN AVENUE
ELEV. = 645.37

B.M. # 541 — RAILROAD SPIKE SET IN SOUTH FACE POWER POLE LOCATED AT NORTHWEST CORNER OF WASHINGTON STREET AND HUNTER AVENUE
ELEV. = 641.70

B.M. # 542 — RAILROAD SPIKE SET IN NORTHEAST FACE POWER POLE LOCATED AT THE SOUTHWEST CORNER OF MARION STREET AND HUNTER AVENUE
ELEV. = 643.84

B.M. # 543 — RAILROAD SPIKE SET IN NORTH FACE POWER POLE LOCATED AT 125 HUNTER AVENUE
ELEV. = 642.25

B.M. # 544 — RAILROAD SPIKE SET ON NORTHWEST FACE POWER POLE LOCATED AT SOUTHEAST CORNER OF DARCY AVENUE AND HUNTER AVENUE
ELEV. = 640.68

B.M. # 545 — RAILROAD SPIKE SET ON NORTH FACE POWER POLE LOCATED AT THE SOUTHEAST CORNER OF MORGAN STREET AND HUNTER AVENUE
ELEV. = 633.36

B.M. # 546 — RAILROAD SPIKE SET ON NORTH FACE POWER POLE LOCATED AT THE SOUTHWEST CORNER OF DARCY AVENUE AND ILLINOIS STREET
ELEV. = 620.22

B.M. # 547 — RAILROAD SPIKE SET IN SOUTHEAST FACE POWER POLE LOCATED AT NORTHWEST CORNER OF ALLEN STREET AND ILLINOIS STREET
ELEV. = 623.05

B.M. # 548 — RAILROAD SPIKE SET ON SOUTHEAST FACE POWER POLE LOCATED AT THE NORTHWEST CORNER OF ALLEN STREET AND SEESER STREET
ELEV. = 638.23

B.M. # 549 — RAILROAD SPIKE SET IN EAST FACE OF POWER POLE LOCATED AT THE SOUTHWEST CORNER OF MARION STREET AND SEESER STREET
ELEV. = 642.79

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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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

LEGENDS, BENCHMARKS, AND ABBREVIATIONS

SCALE: AS NOTED | PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – EMK			
DRAWN – JJS		29	3
CHECKED – MJK			
DATE – 11/07/22			

CITY OF JOLIET WATER SYSTEM GENERAL NOTES

1. 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.

2. 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

3. 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.

4. 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".

5. SANITARY SEWER PIPE SHALL BE PVC ASTM D-3034 WITH A MIN. STR 36 AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".

6. SANITARY SEWER JOINTS SHALL BE RUBBER GASKETS ASTM D-3212 AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".

7. LEAK AND DEFLECTION TESTS SHALL BE PERFORMED ON SANITARY SEWER PIPE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".

8. SANITARY MANHOLES SHALL BE TESTED BY EITHER AN ASTM C-969 LEAKAGE TEST OR AN ASTM C-1234 VACUUM AND AIR TEST IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".

9. 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.

10. NOTIFY THE CITY'S PUBLIC UTILITIES DEPARTMENT IMMEDIATELY IF EXISTING LEAD WATER SERVICES ARE DISCOVERED.

11. PROVIDE PROPERTY OWNERS ADVANCE NOTICE OF CONSTRUCTION ACTIVITIES THAT WILL RESTRICT THE USE OF THEIR DRIVEWAYS.

12. DO NOT STORE BEDDING AND BACKFILL MATERIALS, PIPES, FITTINGS, VAULTS, OR OTHER MATERIALS IN AREAS THAT WILL OBSTRUCT SIGHT LINES FOR STREETS AND DRIVEWAYS.

13. 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.

14. 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.

15. PROVIDE COMPRESSION TYPE FIRE HYDRANTS WITH A 5¼-INCH MINIMUM SIZE MAIN VALVE ASSEMBLY, O-RING SEALS, TWO 2½-INCH HOSE NOZZLES, AND A 4½-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.

16. PROVIDE A TEMPORARY COVERING OVER ALL NEW FIRE HYDRANTS UNTIL ALL NEW WATER MAINS ARE PUT INTO SERVICE AND NEW FIRE HYDRANTS ARE OPERABLE.

17. 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.

18. 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.

19. 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.

20. 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.

21. 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.

22. 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.

23. 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.

24. 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.

25. 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.

26. 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.
    - ALL STREETS SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE.

23. 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.

24. WATER SERVICE INSTALLATION WORK MUST BEGIN WITHIN 5 DAYS OF SATISFACTORY SAMPLE RESULTS AND IEPA APPROVAL. WATER SERVICE INSTALLATION WORK MUST BE COMPLETED WITHIN 15 WORKING DAYS AFTER RECEIVING THE OPERATING PERMIT APPROVAL FROM IEPA, INCLUDING PARTIAL APPROVALS. FINAL PAVEMENT RESTORATION MUST BE COMPLETED WITHIN 21 DAYS AFTER THE LAST COMPLETED WATER SERVICE CONNECTION ON ANY ONE STREET OR MOVING THE EXCAVATION CREW AND EQUIPMENT TO ANOTHER STREET. THE CONTRACTOR HAS THE OPTION TO INSTALL TEMPORARY PAVEMENT AT NO ADDITIONAL COST TO THE CITY WITHIN 7 CALENDAR DAYS. THE CITY CAN STOP OPERATIONS UNTIL TEMPORARY PAVEMENT IS PLACED OR PERMANENT PAVEMENT RESTORATION IS COMPLETE.

25. 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.

SUMMARY OF QUANTITIES

1" .5" 0 1" 2" 3"

CITY OF JOLIET ST. PAT'S PHASE 1A			
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	5,400
4	DUCTILE IRON PIPE MOBILIZATION	FOOT	201
5	WATER MAIN (OPEN CUT), 6-INCH	FOOT	281
6	WATER MAIN (OPEN CUT), 8-INCH	FOOT	7,763
7	WATER MAIN (DIRECTIONALLY DRILLED), 8-INCH	FOOT	291
8	MISCELLANEOUS FITTINGS	POUND	11,000
9	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	EACH	98
10	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	EACH	1
11	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2-INCH	EACH	2
12	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	FOOT	860
13	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	FOOT	20
14	WATER SERVICE LINE TYPE K - OPEN CUT, 2-INCH	FOOT	40
15	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	FOOT	1,703
16	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	FOOT	20
17	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 2-INCH	FOOT	110
18	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	EACH	4
19	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	EACH	4
20	CONNECT TO WATER MAIN (PRESSURE), 6-INCH X 6-INCH	EACH	1
21	GATE VALVE, 6-INCH	EACH	1
22	GATE VALVE, 8-INCH	EACH	26
23	VALVE BOX	EACH	2
24	VALVE VAULT, 4-FOOT DIAMETER	EACH	25
25	VALVE VAULT, 5-FOOT DIAMETER	EACH	1
26	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	VFT	2
27	VALVE VAULT (ADDITIONAL DEPTH), 5-FOOT DIAMETER	VFT	2
28	FIRE HYDRANT	EACH	20
29	FIRE HYDRANT BARREL EXTENSION	VFT	2
30	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
31	SANITARY SEWER REMOVAL AND REPLACEMENT, 10-INCH	FOOT	70
32	SANITARY SEWER REMOVAL AND REPLACEMENT, 12-INCH	FOOT	60
33	INLET PROTECTION FILTER	EACH	101
34	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE	SQYD	6,300
35	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	SQYD	20
36	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	SQYD	110
37	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	990
38	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	5,900
39	DETECTABLE WARNINGS	SQFT	10
40	MOVE AND RESET PLANTERS	EACH	5
41	REMOVE AND RESET RETAINING WALL	FOOT	250
42	PAVEMENT MARKING - LINE, 6-INCH (THERMOPLASTIC)	FOOT	470
43	PAVEMENT MARKING - LINE, 12-INCH (THERMOPLASTIC)	FOOT	380
44	PAVEMENT MARKING - LINE, 24-INCH (THERMOPLASTIC)	FOOT	80
45	RESTORATION OF LAWNS AND PARKWAYS	SQYD	800
46	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	FOOT	220
47	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	14
48	DUST CONTROL	DAY	24
49	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	93
50	SOIL TESTS FOR CONTAMINANTS	EACH	10
51	CONTAMINATED WASTE DISPOSAL	CUYD	93
52	EXPLORATORY EXCAVATION	EACH	10
53	ROCK EXCAVATION	CUYD	990
54	TREE ROOT PRUNING	EACH	53
55	TREE TRIMMING	LSUM	1
56	TREE REMOVAL AND REPLACEMENT, 6-INCH THROUGH 12-INCH	EACH	1
57	TREE REMOVAL AND REPLACEMENT, OVER 12 INCH	EACH	1
58	WATER SERVICE LOCATE	LSUM	1
	PART B - SANITARY SEWER IMPROVEMENTS		
59	GRANULAR TRENCH BACKFILL (SANITARY)	CUYD	700
60	SANITARY SEWER (OPEN CUT), 8-INCH, PVC, 8 TO 12 FEET DEEP	FOOT	730
61	SANITARY SEWER MANHOLE, TYPE A, 4-FOOT DIAMETER, 8 TO 12 FEET DEEP	EACH	4
62	CONNECTION TO EXISTING SANITARY SEWER MANHOLE	EACH	1
63	SANITARY SERVICE LINES, 6-INCH	FOOT	366
64	EXCAVATION AND POINT REPAIR - NO.1	LSUM	1
65	EXCAVATION AND POINT REPAIR - NO.2	LSUM	1
66	EXCAVATION AND POINT REPAIR - ADDITIONAL PIPE IN PAVEMENT - 10"	FOOT	10
67	EXCAVATION AND POINT REPAIR - ADDITIONAL PIPE IN PAVEMENT - 12"	FOOT	10
68	TELEVISING OF NEW SEWER FOR FINAL INSPECTION	FOOT	1,096
69	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE (SANITARY)	SQYD	700
70	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (SANITARY)	FOOT	130
71	PCC SIDEWALK REMOVAL AND REPLACEMENT (SANITARY)	SQFT	400
72	RESTORATION OF LAWNS AND PARKWAYS (SANITARY)	SQYD	100
73	ROCK EXCAVATION (SANITARY)	CUYD	140
74	TREE ROOT PRUNING (SANITARY)	EACH	4

PART C - LEAD SERVICE LINE IMPROVEMENTS			
75	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	294
76	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (LEAD SERVICE REPLACEMENT), 1-INCH	EACH	97
77	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (LEAD SERVICE REPLACEMENT), 1.5-INCH	EACH	1
78	WATER SERVICE LINE TYPE K - OPEN CUT (LEAD SERVICE REPLACEMENT), 1-INCH	FOOT	860
79	WATER SERVICE LINE TYPE K - OPEN CUT (LEAD SERVICE REPLACEMENT), 1.5-INCH	FOOT	20
80	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 1-INCH	FOOT	5,098
81	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT), 1.5-INCH	FOOT	35
82	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4-INCH	FOOT	490
83	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1-INCH	FOOT	30
84	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1.5-INCH	FOOT	30
85	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2-INCH	FOOT	440
86	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	EACH	74
87	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB (LEAD SERVICE REPLACEMENT)	EACH	25
88	UTILITY LOCATION - PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	EACH	98
89	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	EACH	98
90	WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)	EACH	98
91	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	196
92	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	EACH	98
93	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	EACH	25
94	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 2.5-INCH BINDER 1.5-INCH SURFACE	SQYD	50
95	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT LEAD SERVICE REPLACEMENT), 3-INCH	SQYD	20
96	PCC DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT), 6-INCH	SQYD	100
97	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	FOOT	500
98	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SQFT	5,400
99	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	SQYD	500

FINAL DESIGN
FOR BIDDING

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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: AS NOTED | PROJECT NO: 211917

DESIGNED - EMK
DRAWN - JJS
CHECKED - MJK
DATE - 11/07/22

TOTAL SHEETS	SHEET NO.
29	4

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1" .5" 0 1" 2" 3"

N

S RAYNOR AVE

BLACKMAN AVENUE

ALLEY

WASHINGTON STREET

59 L.F. OF 8" RJT WATER MAIN,
(2) 8" 45° BENDS,
(1) 8" SLEEVE,
(1) 8" VALVE IN 4' DIA. VAULT,
(1) 8" NON-PRESSURE CONNECTION

206 L.F. OF 8" WATER MAIN

ABANDON EXISTING 8" WATER MAIN

50 L.F. OF 8" RJT WATER MAIN,
(1) 8" TEE,
(1) 8" VALVE IN 4' DIA. VAULT

30 L.F. OF 8" WATER MAIN

NOTE:
WATER SERVICES: (3) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (TYP.)

WATER SERVICE LINE (TYP.)

ABANDON EXISTING VALVE BOX

Copper

Unknown

714

712

710

Bit.

Conc.

Conc. Porch

6' x Stock

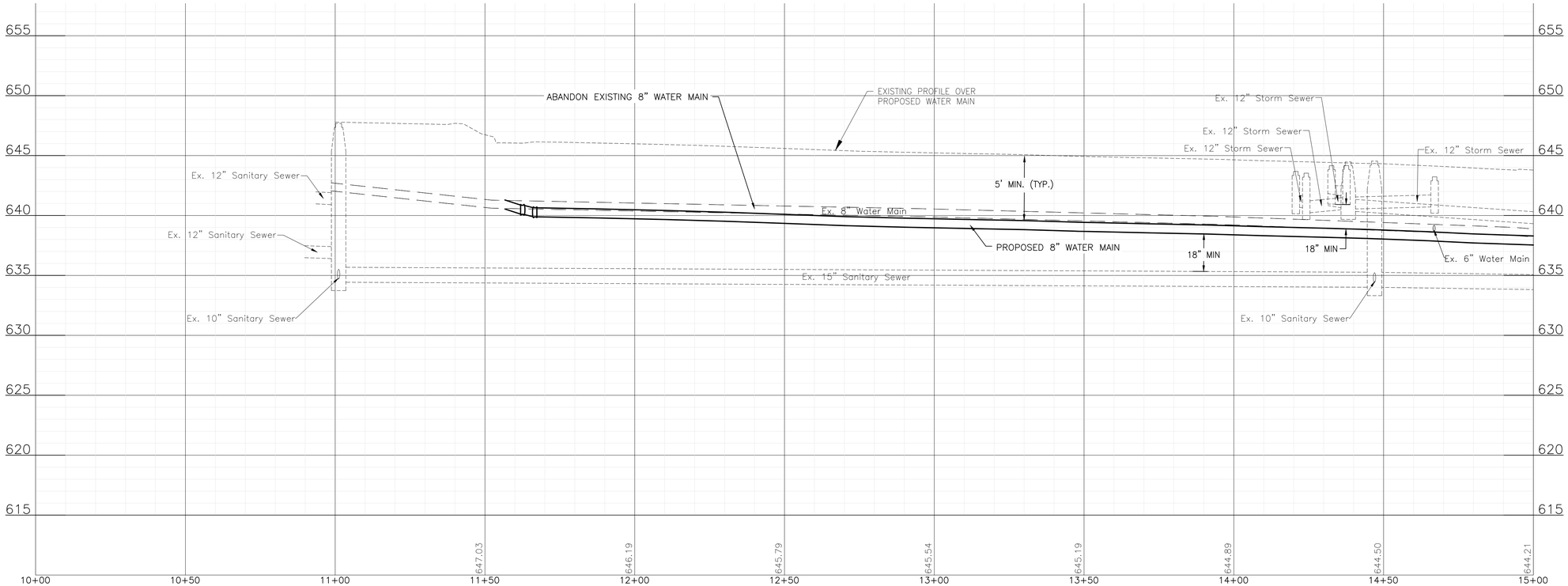
SEE SHEET 19
FOR DESCRIPTION OF WATER MAIN WORK

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

MATCH LINE STA. 15+00 SEE SHEET 6

FOR CONTINUATION SEE SHEET 19

10+00 11+00 12+00 13+00 14+00 15+00 146+49 146+00



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	REVISED –
	REVISED –

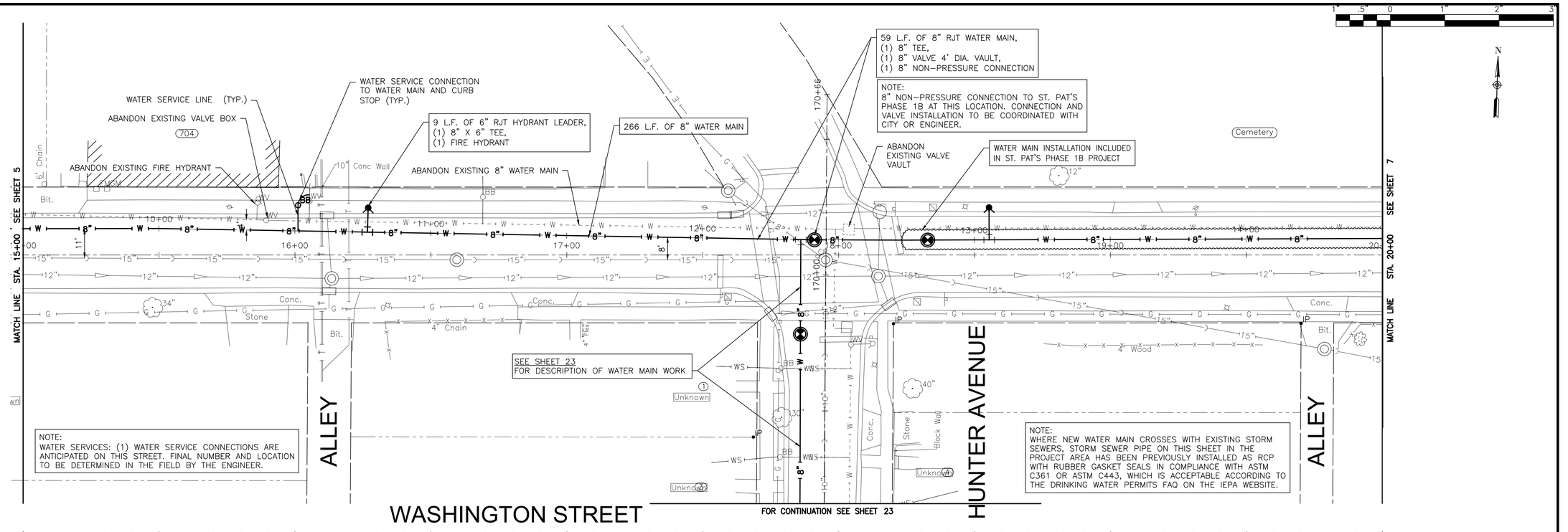
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

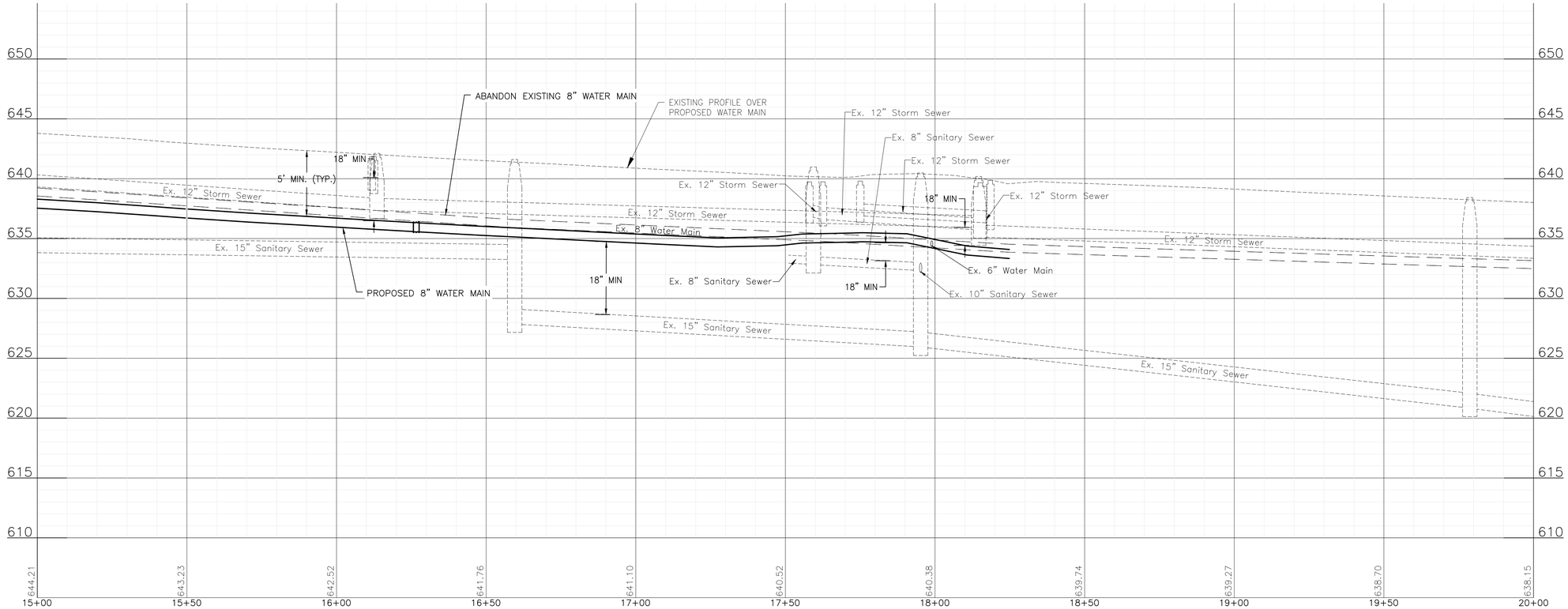
WASHINGTON STREET STA. 10+00 TO STA.15+00 PLAN AND PROFILE

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

PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – EMK			
DRAWN – JJS		29	5
CHECKED – MJK			
DATE – 11/07/22			





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	REVISED –

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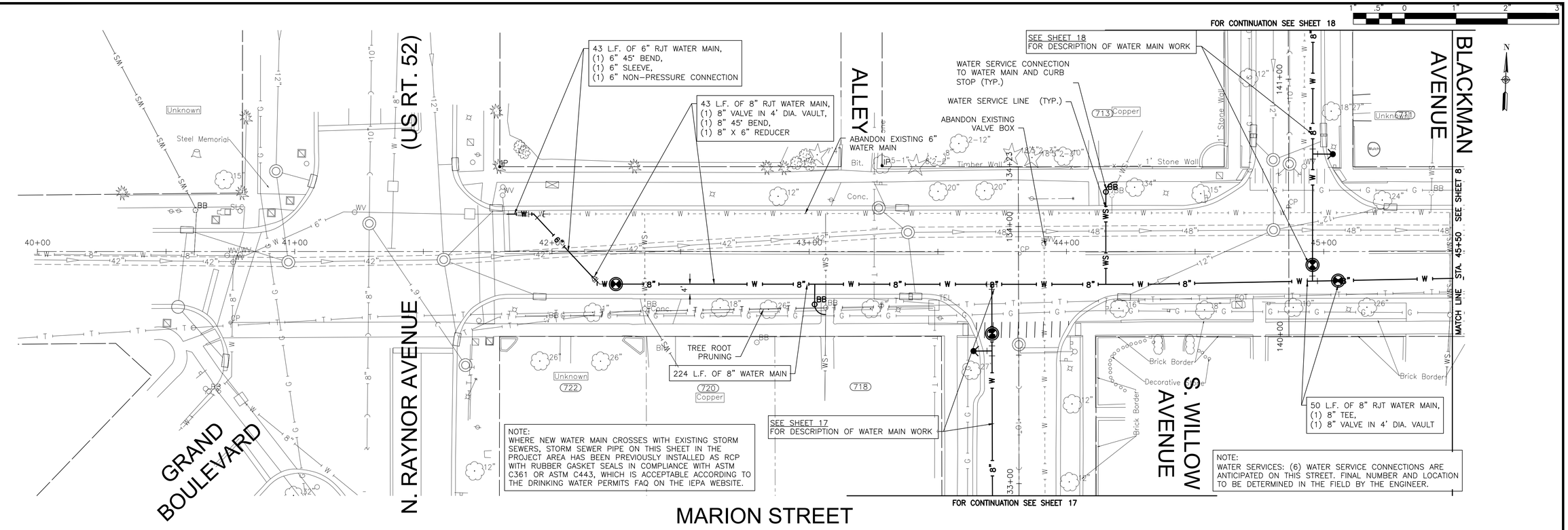
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

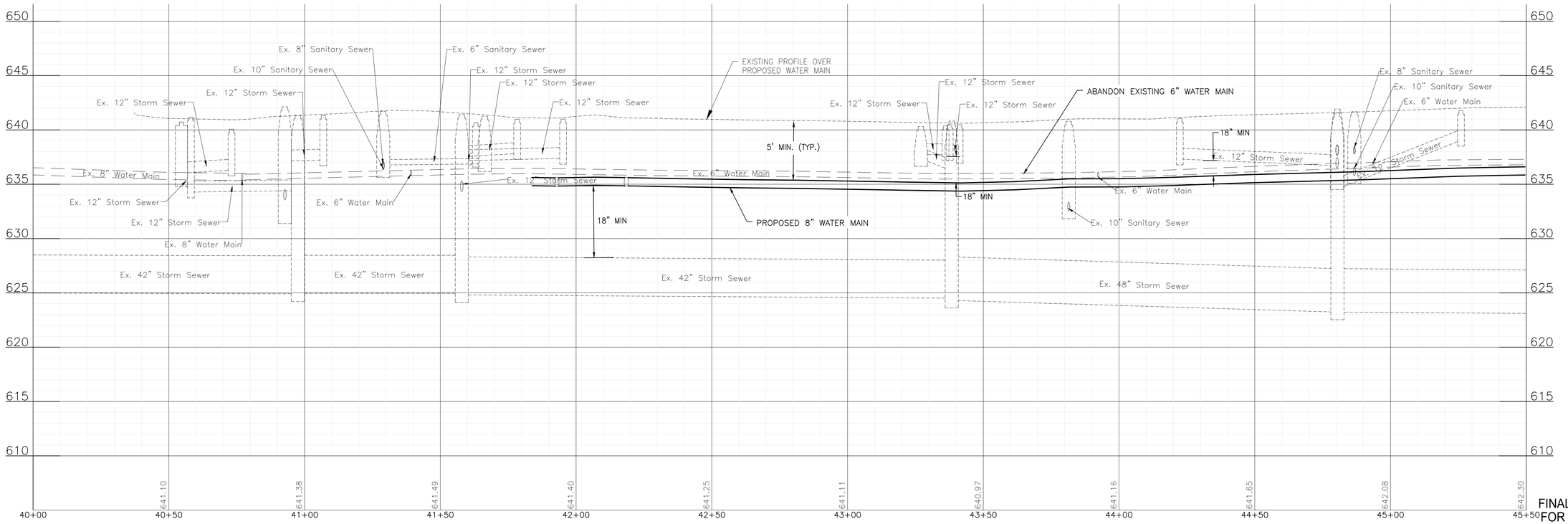
WASHINGTON STREET STA. 15+00 TO STA. 20+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

DESIGNED – EMK	TOTAL SHEETS: 29
DRAWN – JJS	SHEET NO.: 6
CHECKED – MJK	
DATE – 11/07/22	

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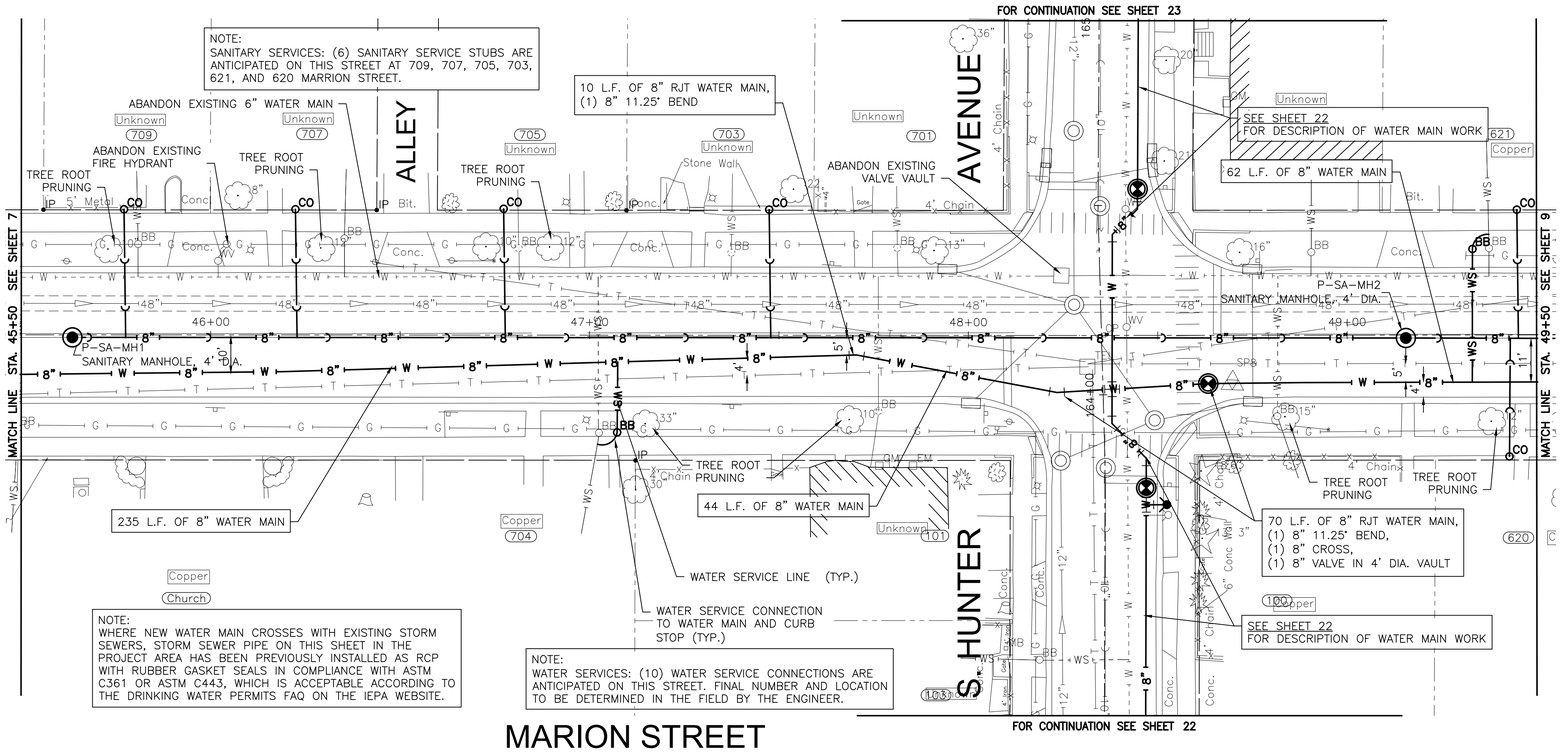


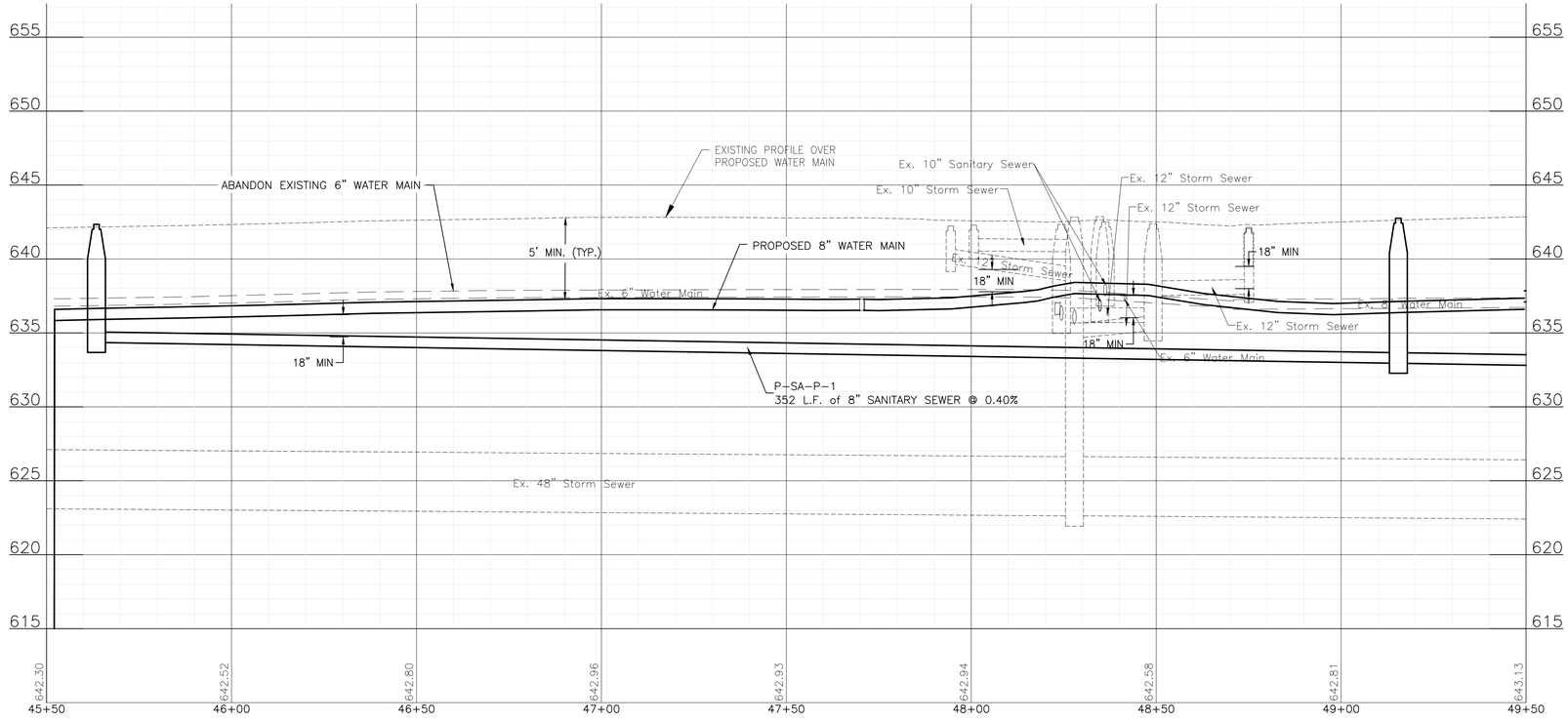


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		REVISED –			DRAWN – JJS	
		REVISED –			CHECKED – MJK	
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917	DATE – 11/07/22	

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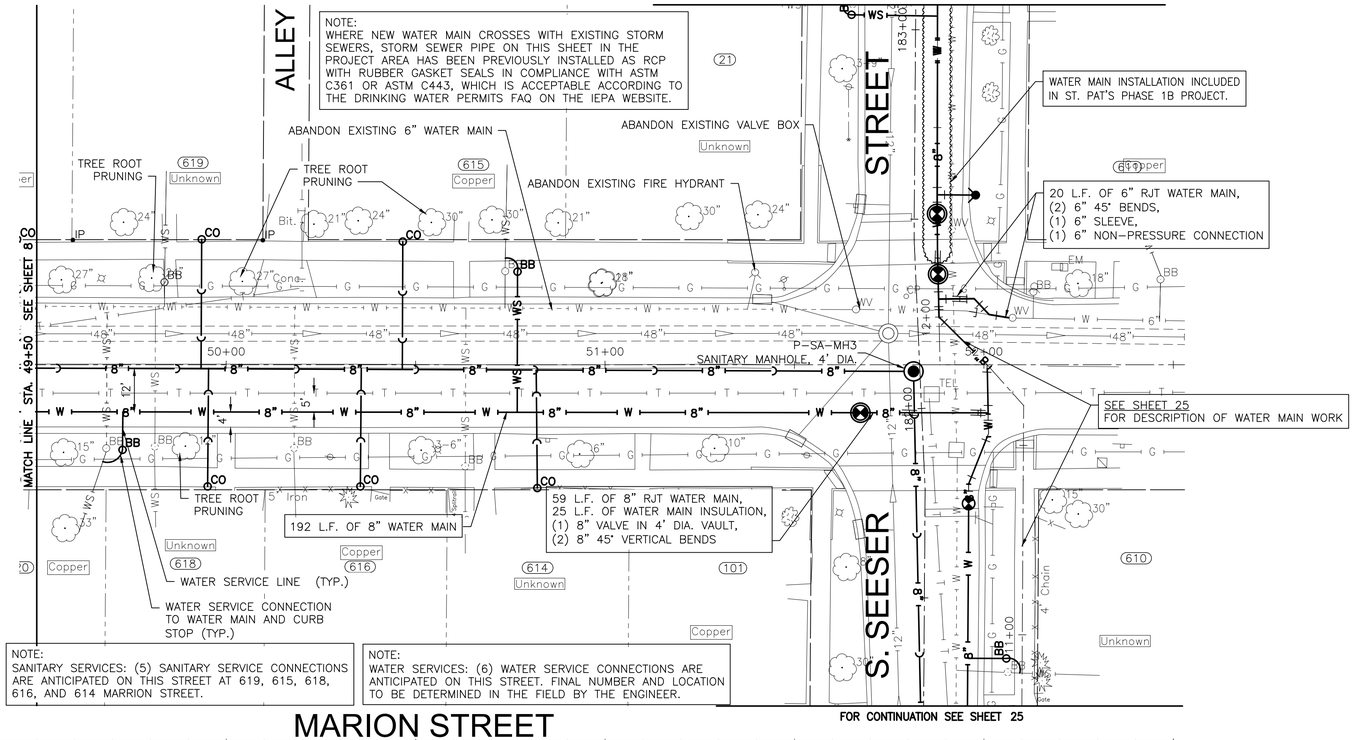
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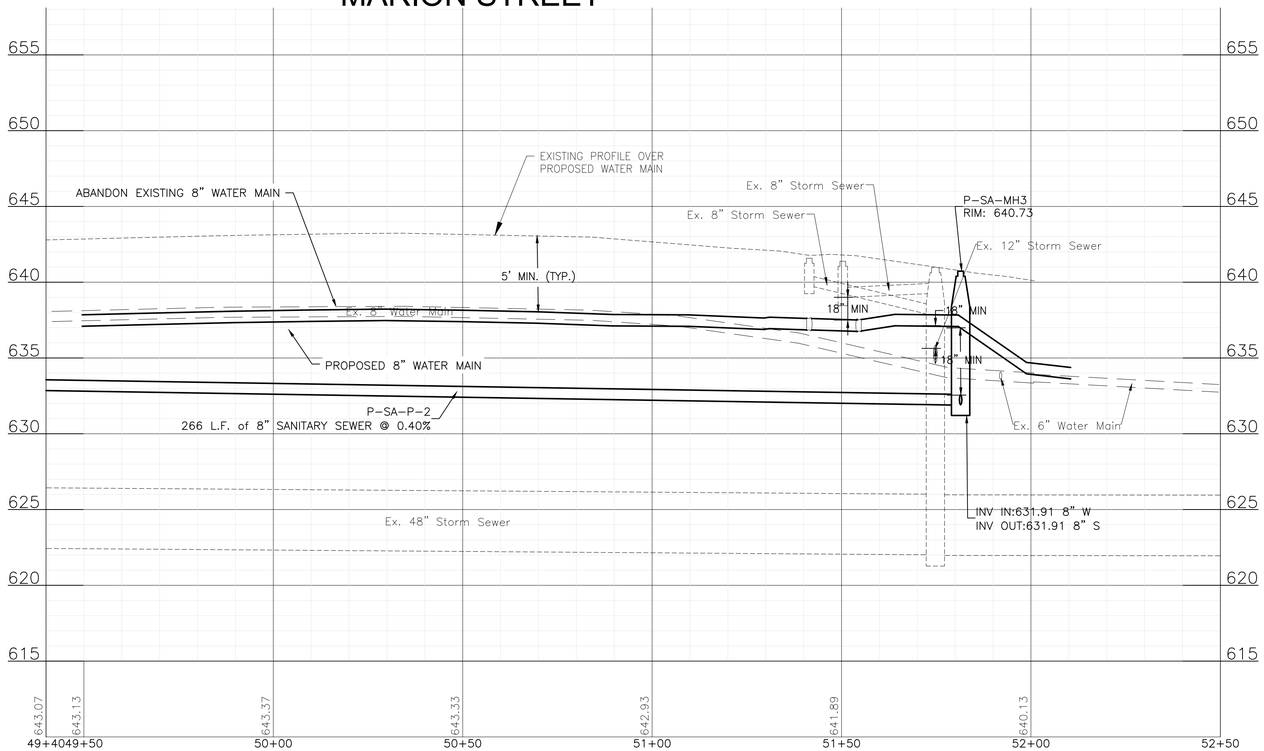
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

MARION STREET STA. 45+50 TO STA. 49+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – EMK			
DRAWN – JJS		29	8
CHECKED – MJK			
DATE – 11/07/22			





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DESIGNED – EMK	TOTAL SHEETS	SHEET NO.
DRAWN – JJS	29	9
CHECKED – MJK		
DATE – 11/07/22		

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FOR CONTINUATION SEE SHEET 22

FOR CONTINUATION SEE SHEET 24

SEE SHEET 21
FOR DESCRIPTION OF WATER MAIN WORK

SEE SHEET 24
FOR DESCRIPTION OF WATER MAIN WORK

6 L.F. OF 6" RJT HYDRANT LEADER,
(1) 8" X 6" TEE,
(1) FIRE HYDRANT

203 L.F. OF 8" WATER MAIN

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

WATER SERVICE LINE (TYP.)

ABANDON EXISTING VALVE BOX

ABANDON EXISTING 6" WATER MAIN

RECOMMENDED LAUNCHING PIT

38 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN 4' DIA. VAULT

73 L.F. OF 8" RJT WATER MAIN,
(2) 8" 45° BENDS

109 L.F. OF 8" WATER MAIN,
DIRECTIONALLY DRILLED

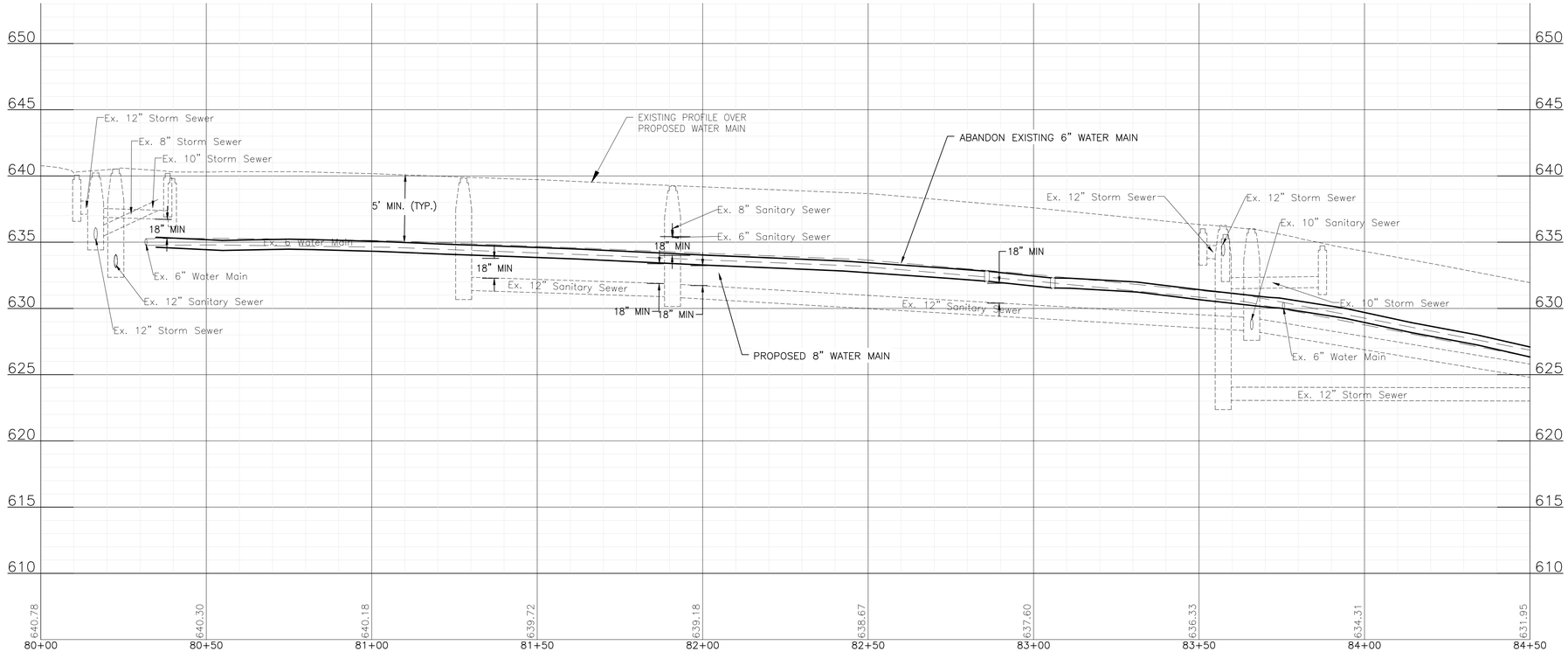
WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (TYP.)

NOTE:
WATER SERVICES: (9) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

MATCH LINE STA. 84+50 SEE SHEET 11

FOR CONTINUATION SEE SHEET 21

W. ALLEN STREET



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	REVISED –
	REVISED –

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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

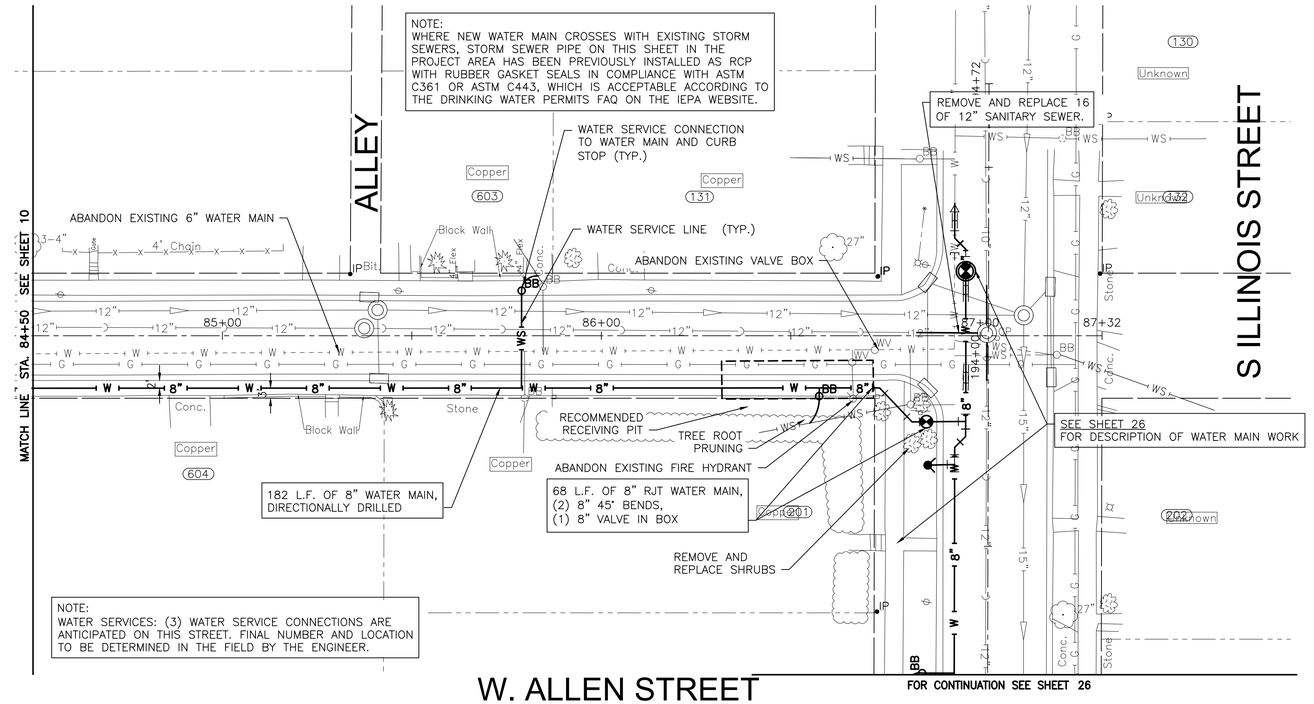
W. ALLEN STREET STA. 80+00 TO STA. 84+50 PLAN AND PROFILE

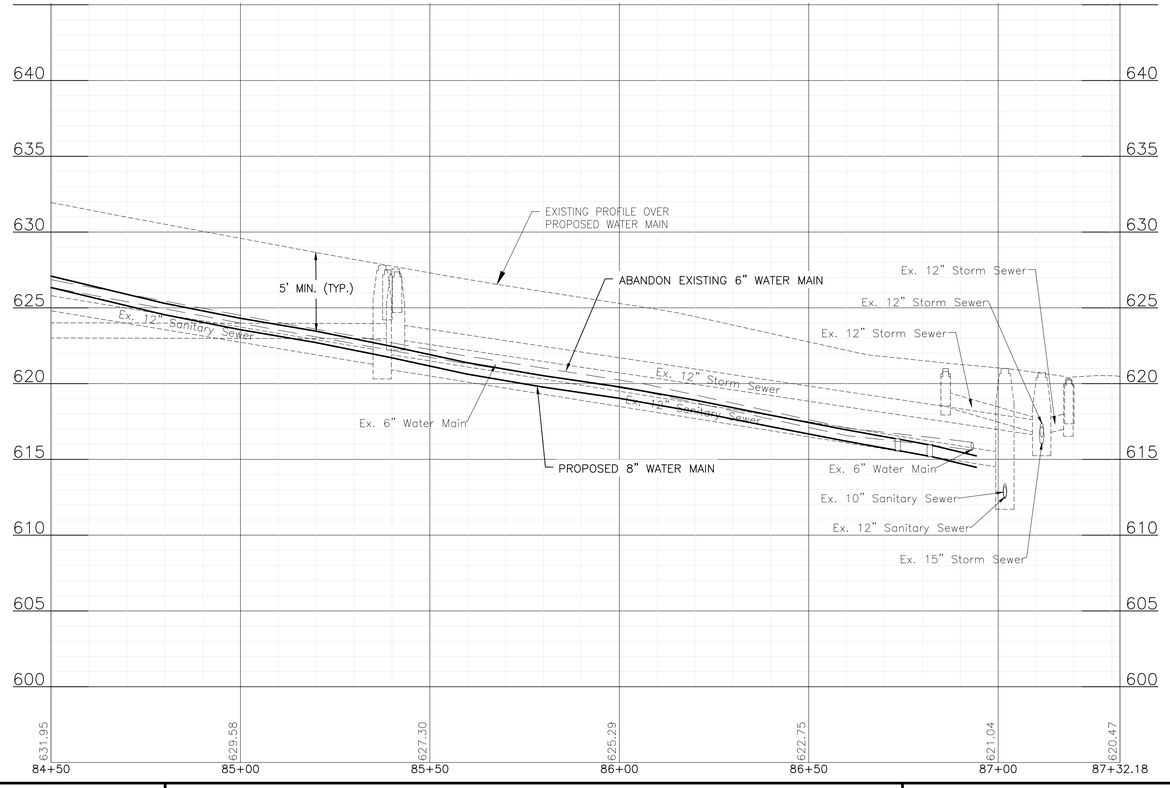
SCALE: HORIZ 1"=20' / VERT 1"=5'
PROJECT NO: 211917

DESIGNED – EMK
DRAWN – JJS
CHECKED – MJK
DATE – 11/07/22

TOTAL SHEETS	SHEET NO.
29	10

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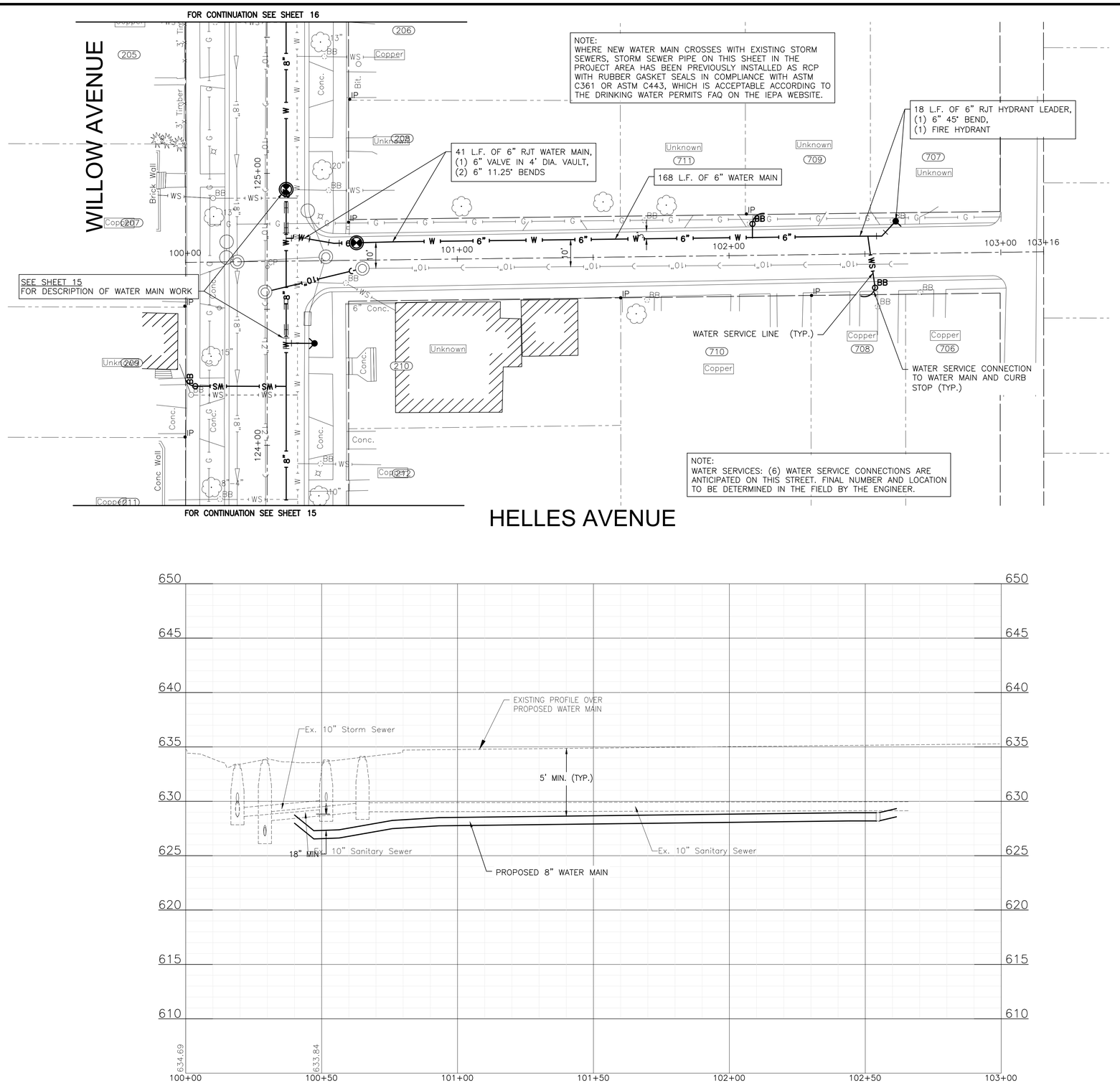
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FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO.2689-0123	W. ALLEN STREET STA. 84+50 TO STA. 87+50 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917

DESIGNED – EMK	TOTAL SHEETS	SHEET NO.	
DRAWN – JJS	29	11	
CHECKED – MJK			
DATE – 11/07/22			

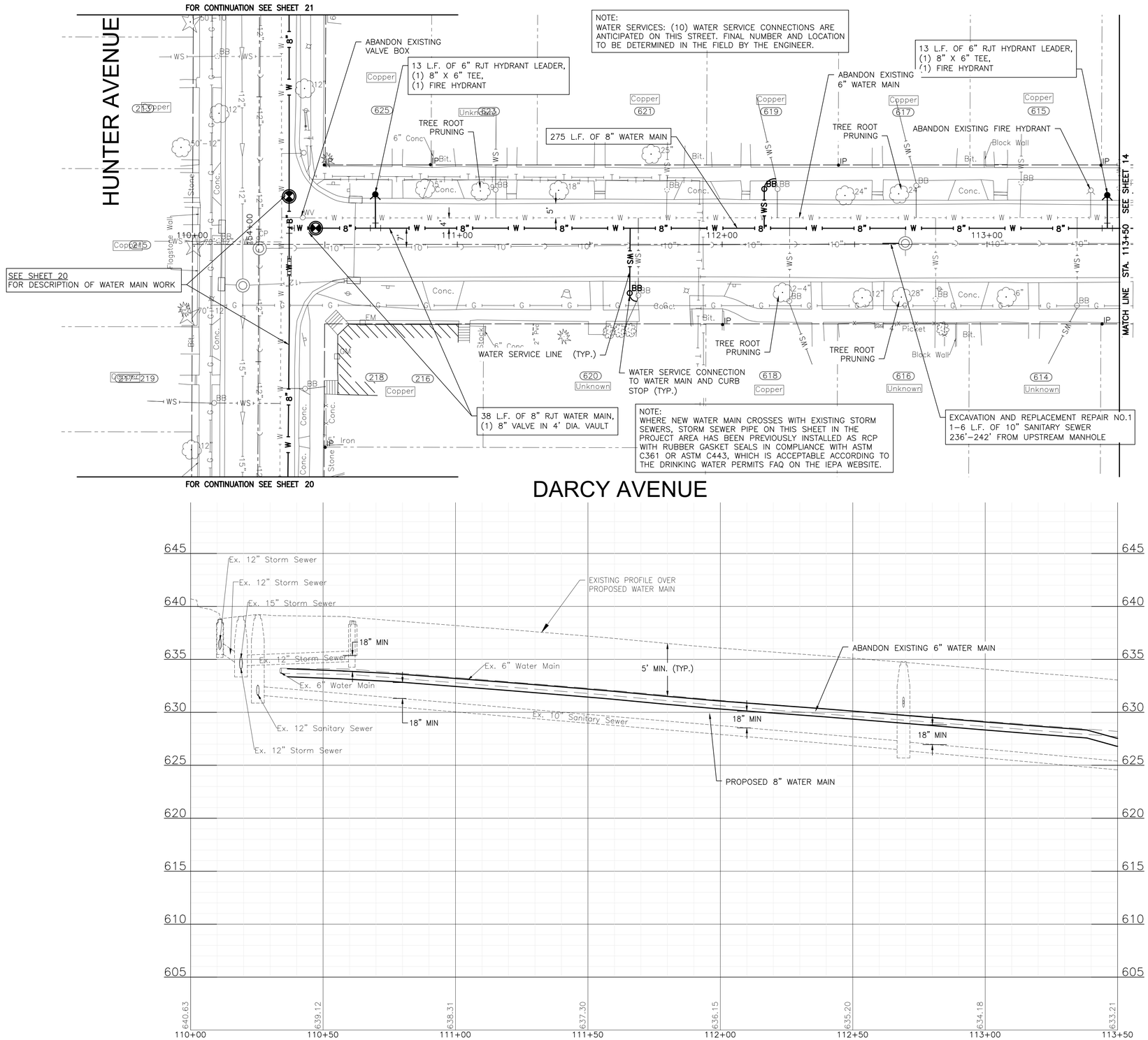
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FINAL DESIGN FOR BIDDING

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		REVISED –			DRAWN – JJS	
		REVISED –			CHECKED – MJK	
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 211917	DATE – 11/07/22



FINAL DESIGN FOR BIDDING

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BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

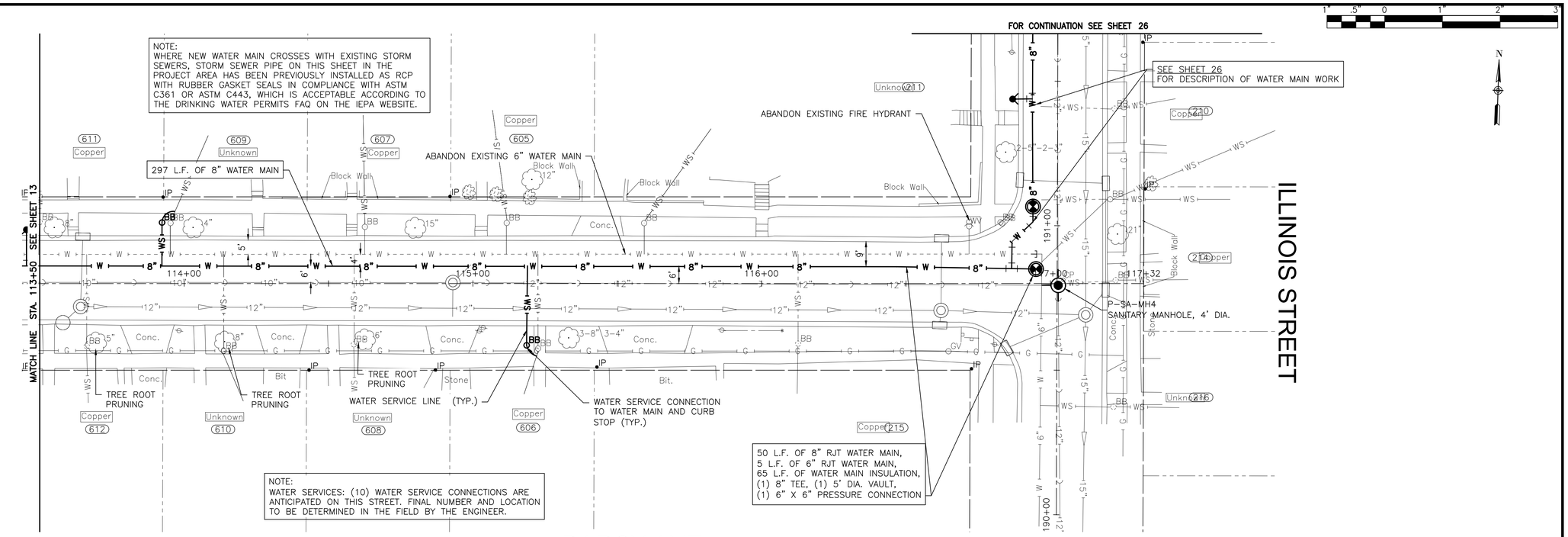
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

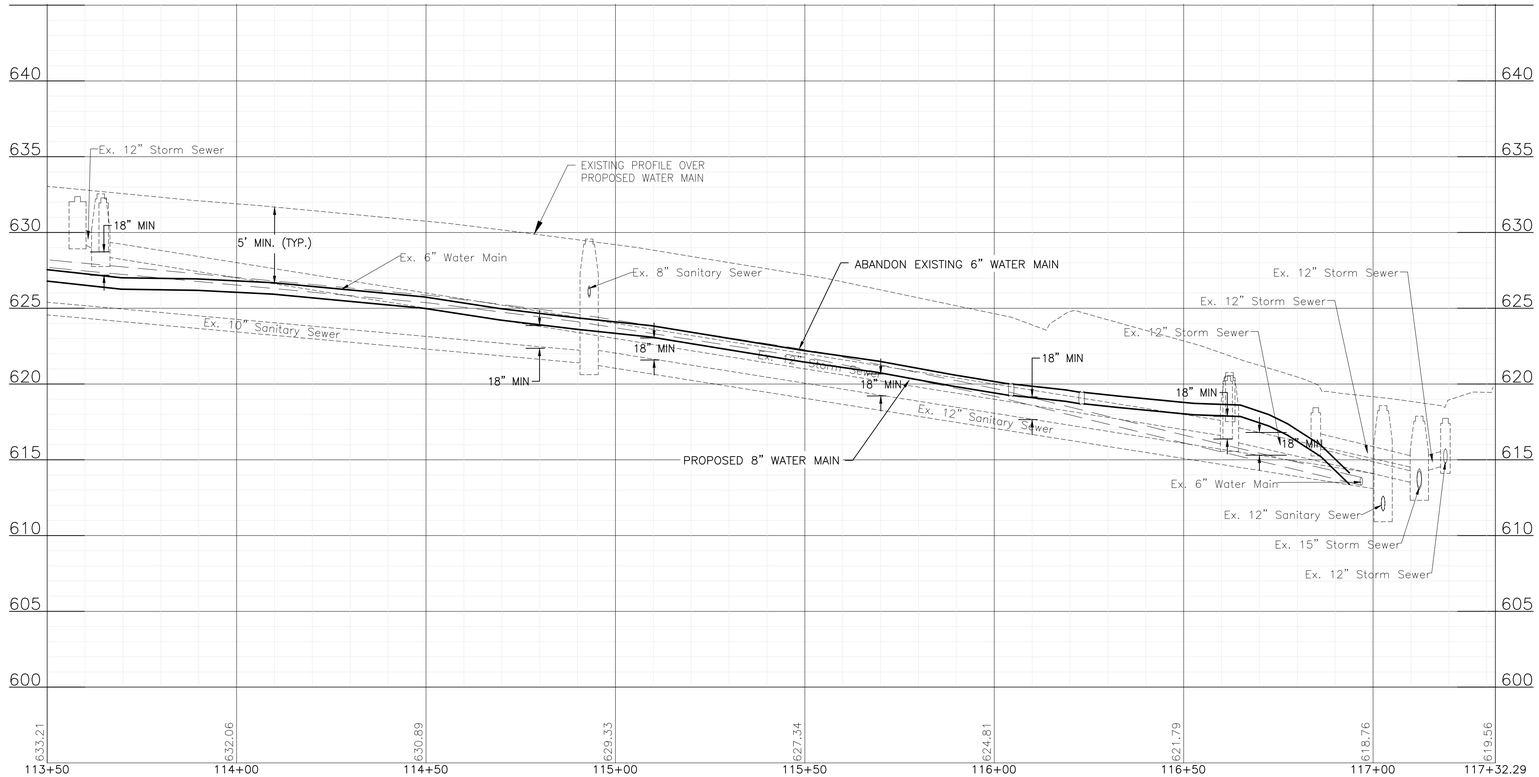
DARCY AVENUE STA. 110+00 TO STA. 113+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

DESIGNED – EMK	
DRAWN – JJS	
CHECKED – MJK	
DATE – 11/07/22	

TOTAL SHEETS	SHEET NO.
29	13

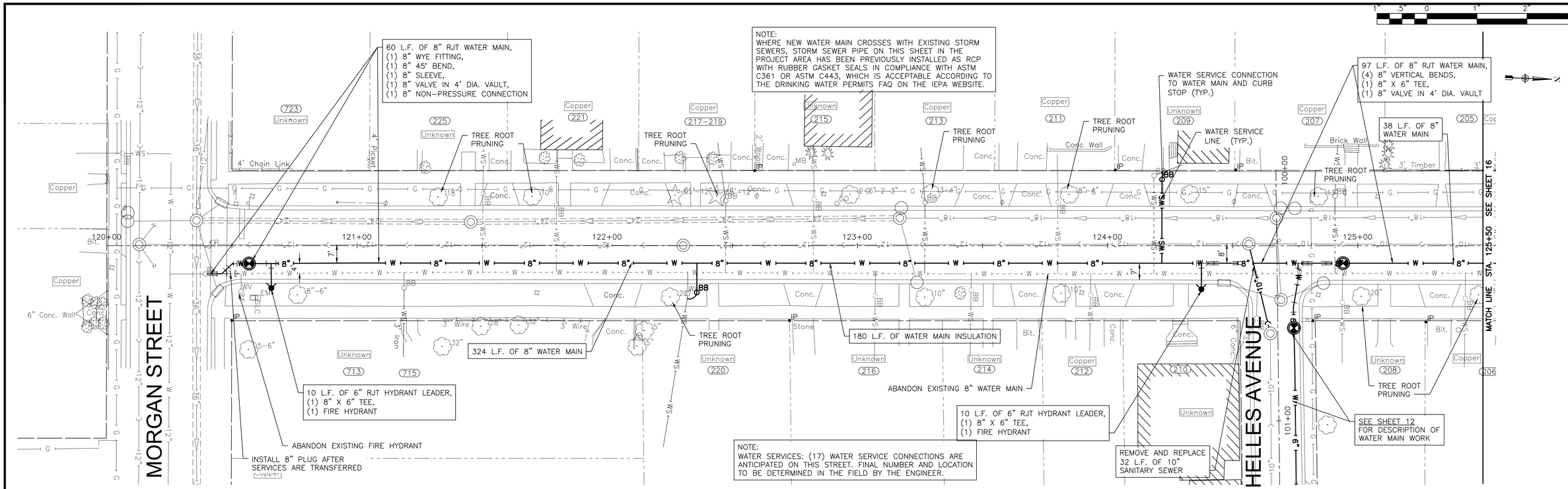




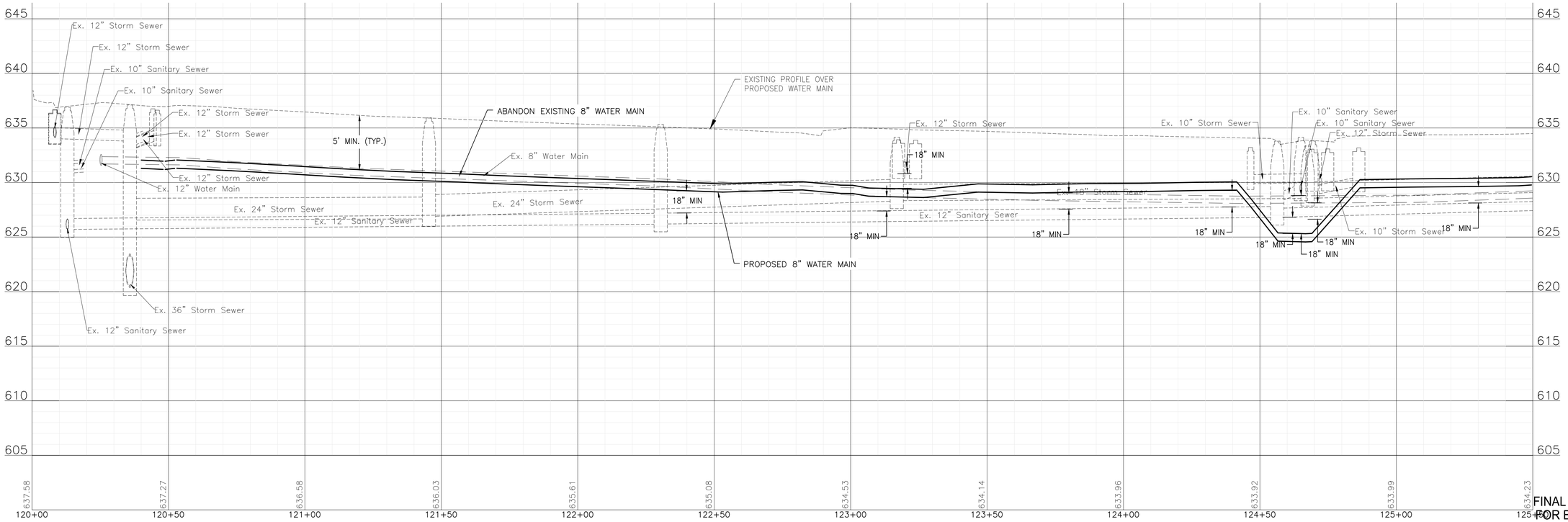
FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO.2689-0123	DARCY AVENUE STA. 113+50 TO STA. 117+50 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917	DESIGNED – EMK DRAWN – JJS CHECKED – MJK DATE – 11/07/22 TOTAL SHEETS 29 SHEET NO. 14

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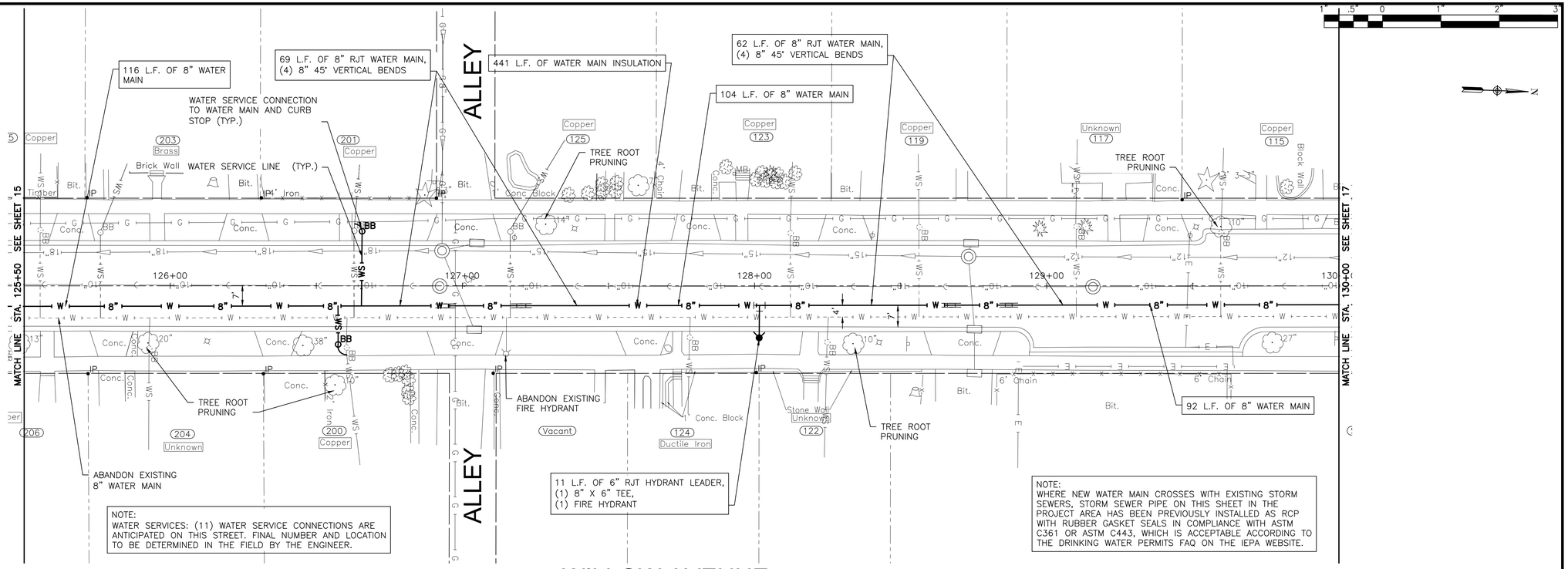
WILLOW AVENUE



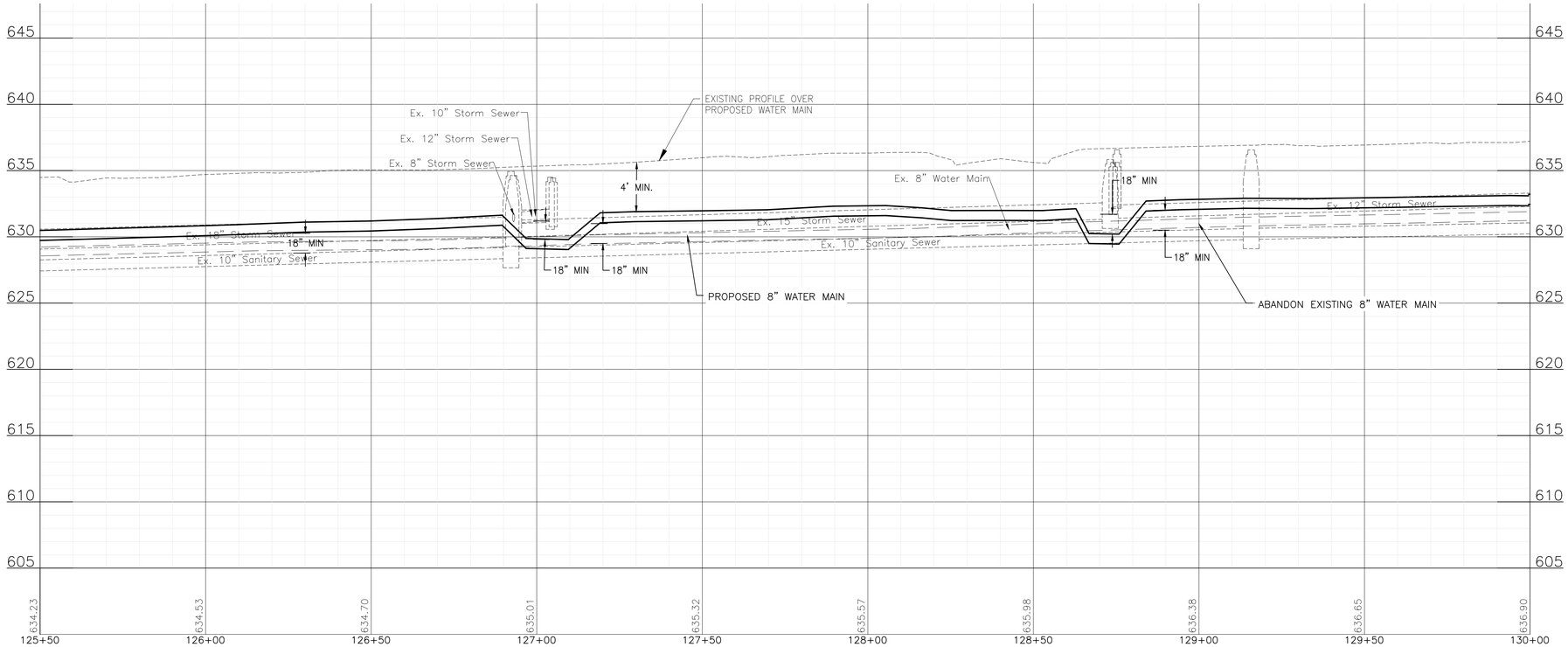
FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO.2689-0123	WILLOW AVENUE STA. 120+00 TO STA. 125+50 PLAN AND PROFILE	DESIGNED – EMK	TOTAL SHEETS 29 / SHEET NO. 15
		REVISED –			DRAWN – JJS	
		REVISED –			CHECKED – MJK	
		REVISED –		SCALE: HORIZ 1"=20' / VERT 1"=5'	PROJECT NO: 211917	DATE – 11/07/22

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WILLOW AVENUE



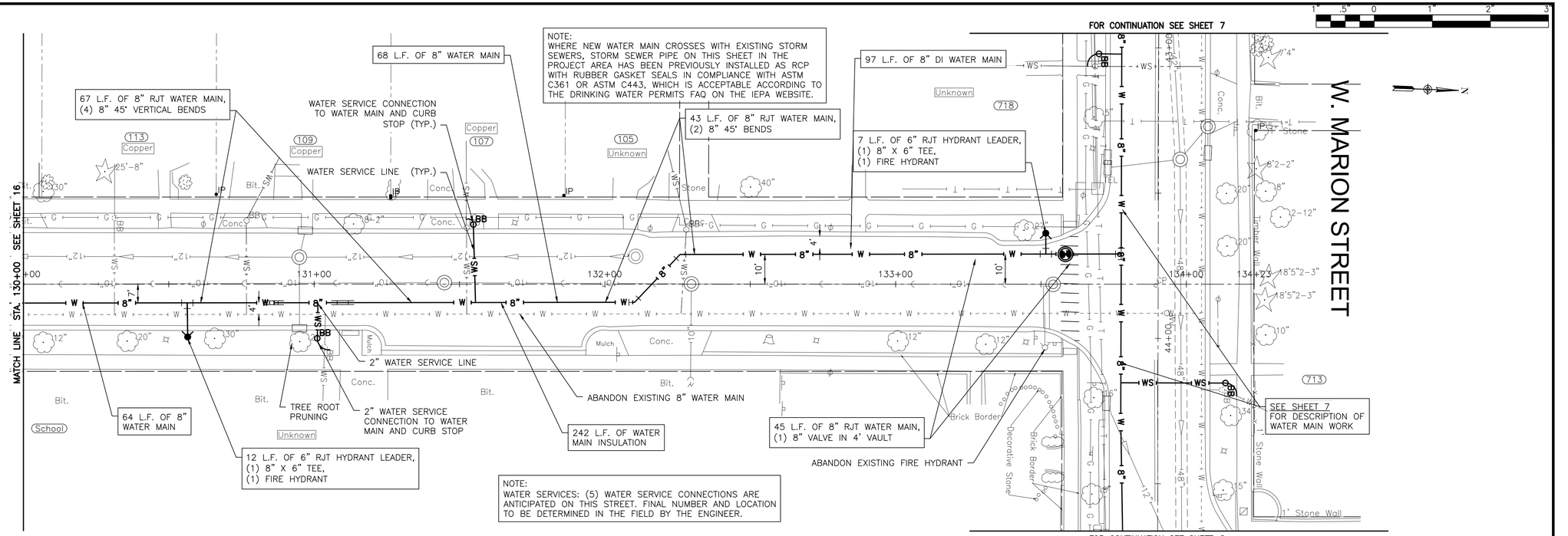
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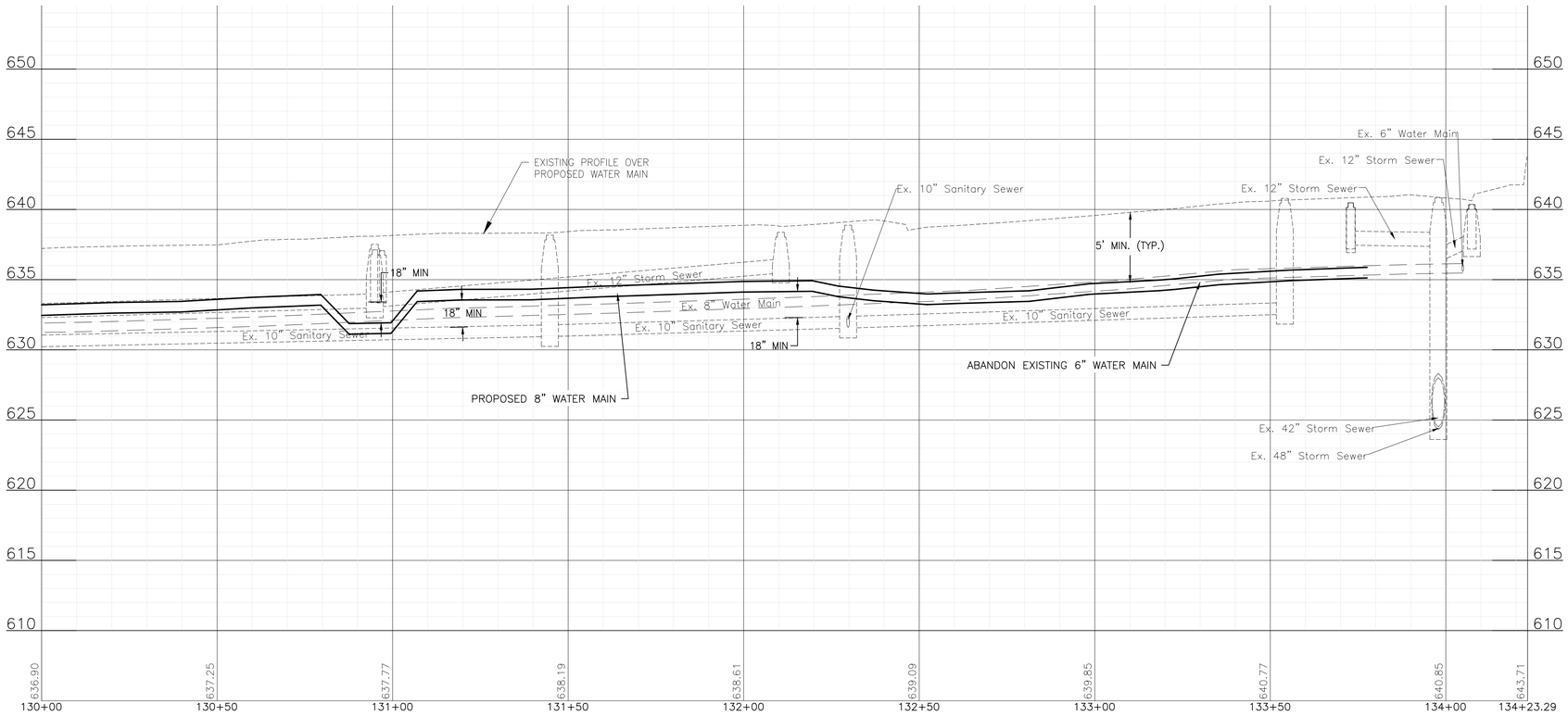
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DESIGNED – EMK
DRAWN – JJS
CHECKED – MJK
DATE – 11/07/22

TOTAL SHEETS: 29
SHEET NO.: 16

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CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

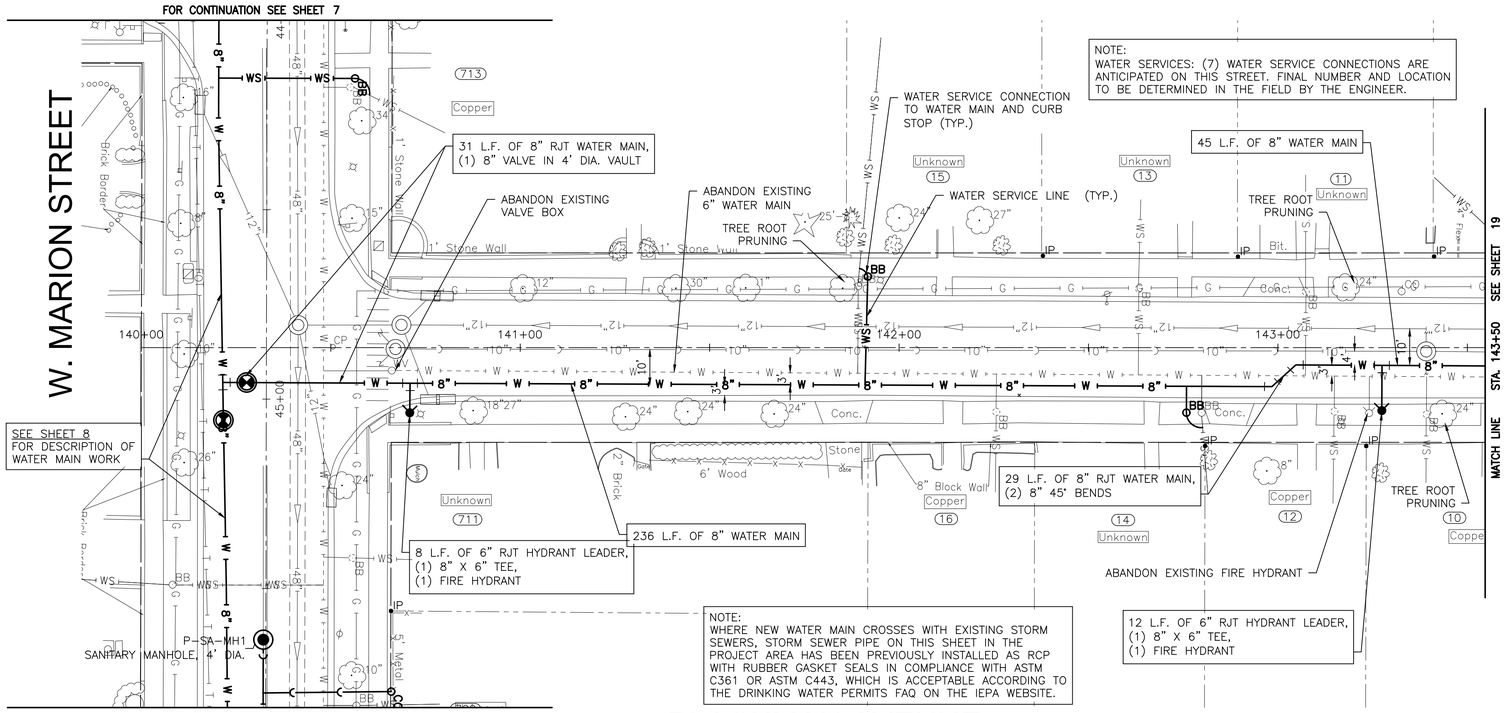
WILLOW AVENUE STA. 130+00 TO STA. 134+50 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

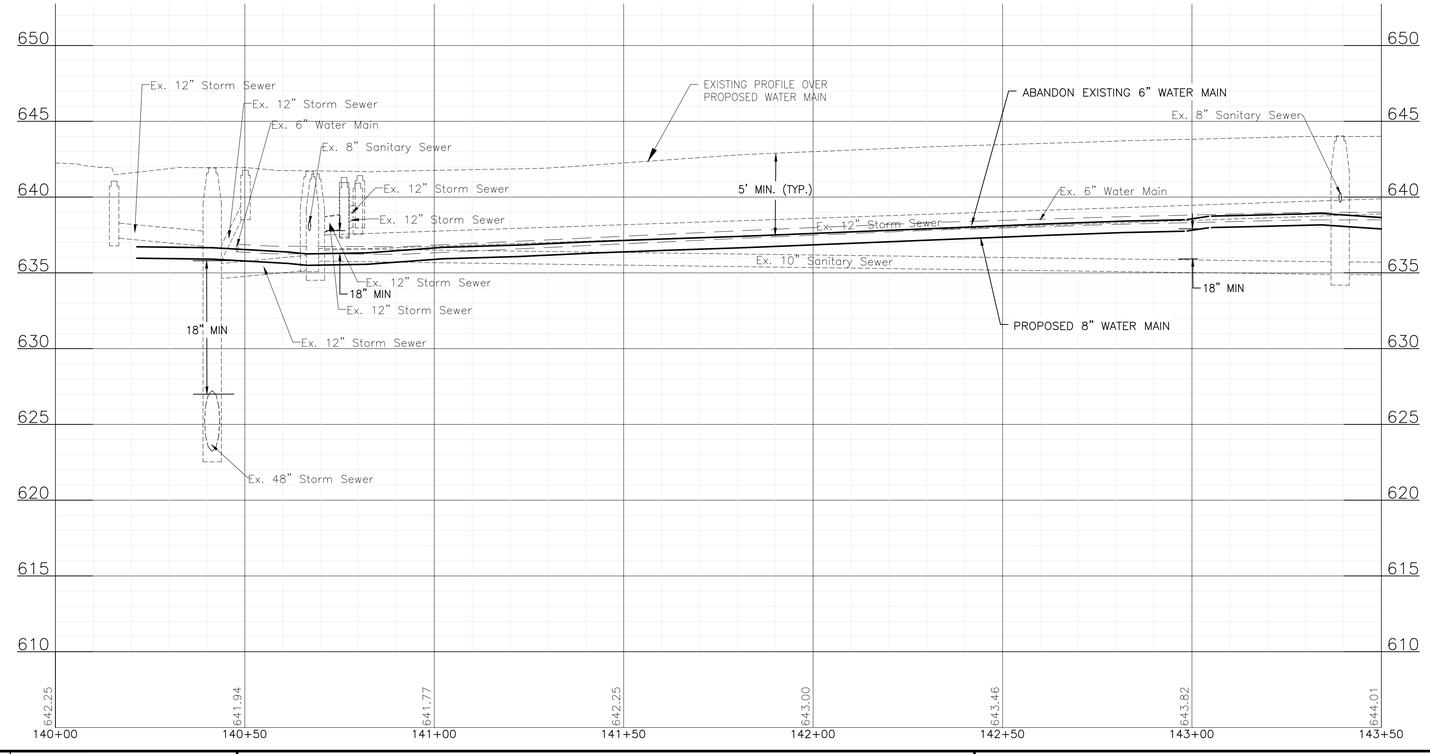
DESIGNED – EMK
DRAWN – JJS
CHECKED – MJK
DATE – 11/07/22

TOTAL SHEETS: 29 | SHEET NO.: 17

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BLACKMAN AVENUE



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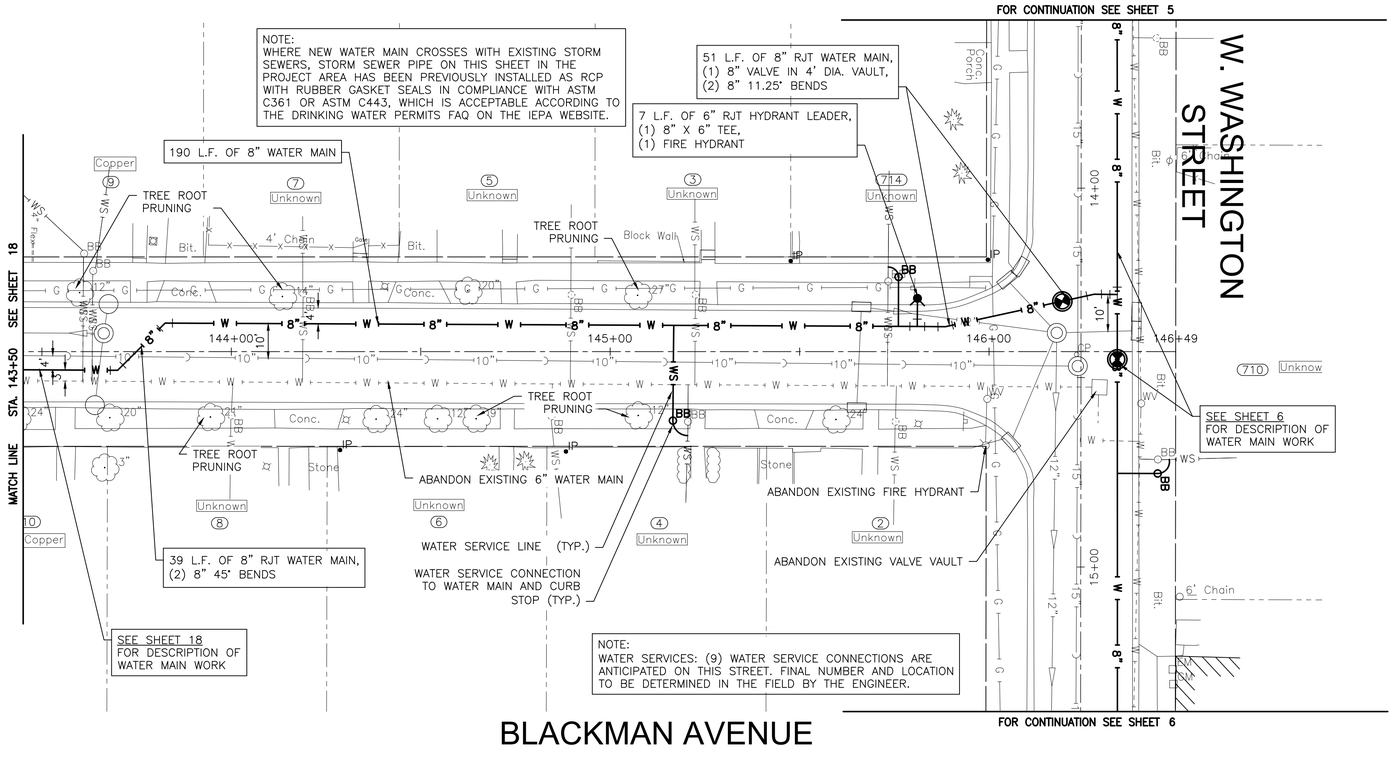
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO.2689-0123
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		REVISED –	
		REVISED –	

BLACKMAN AVENUE STA. 140+00 TO STA. 143+50 PLAN AND PROFILE

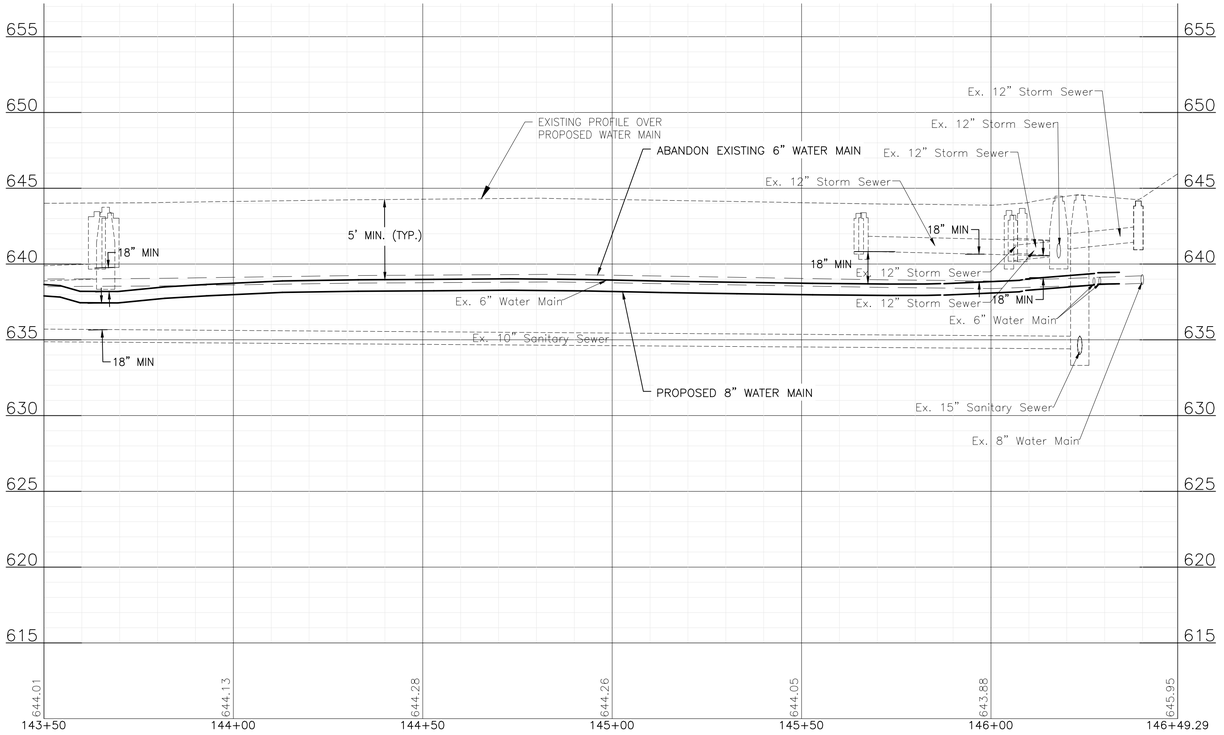
SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

DESIGNED – EMK	TOTAL SHEETS	SHEET NO.	
DRAWN – JJS	29	18	
CHECKED – MJK			
DATE – 11/07/22			

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BLACKMAN AVENUE



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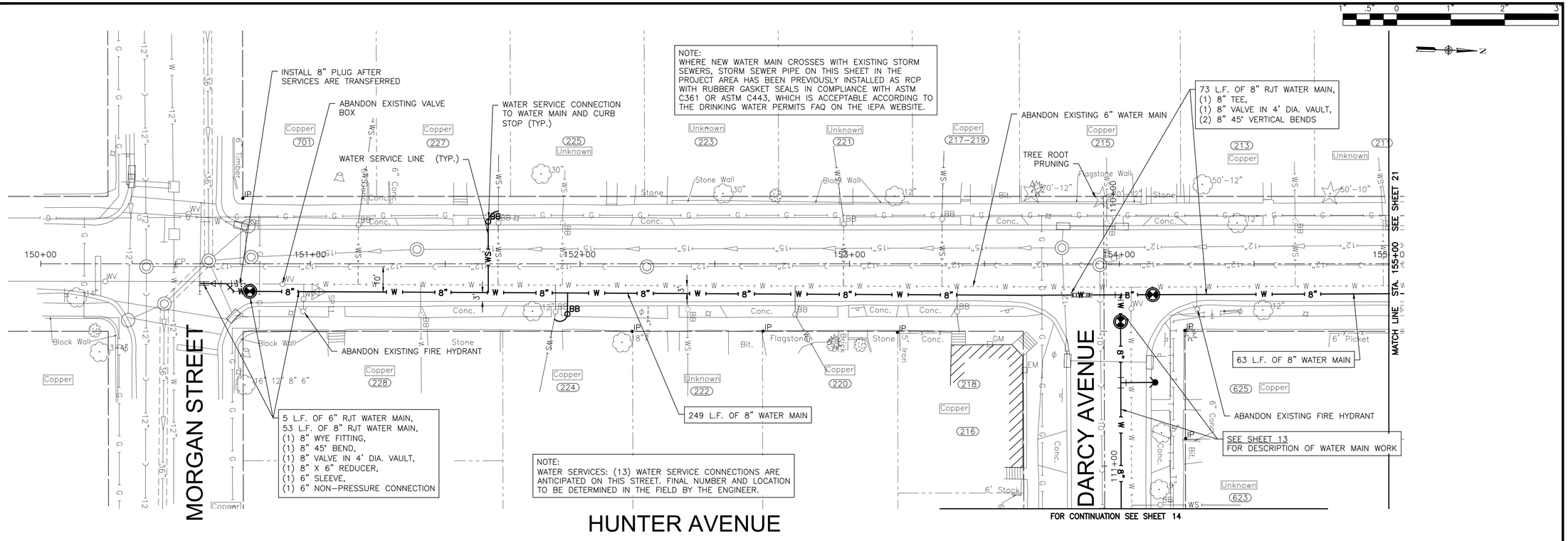
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO.2689-0123
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		REVISED –	
		REVISED –	

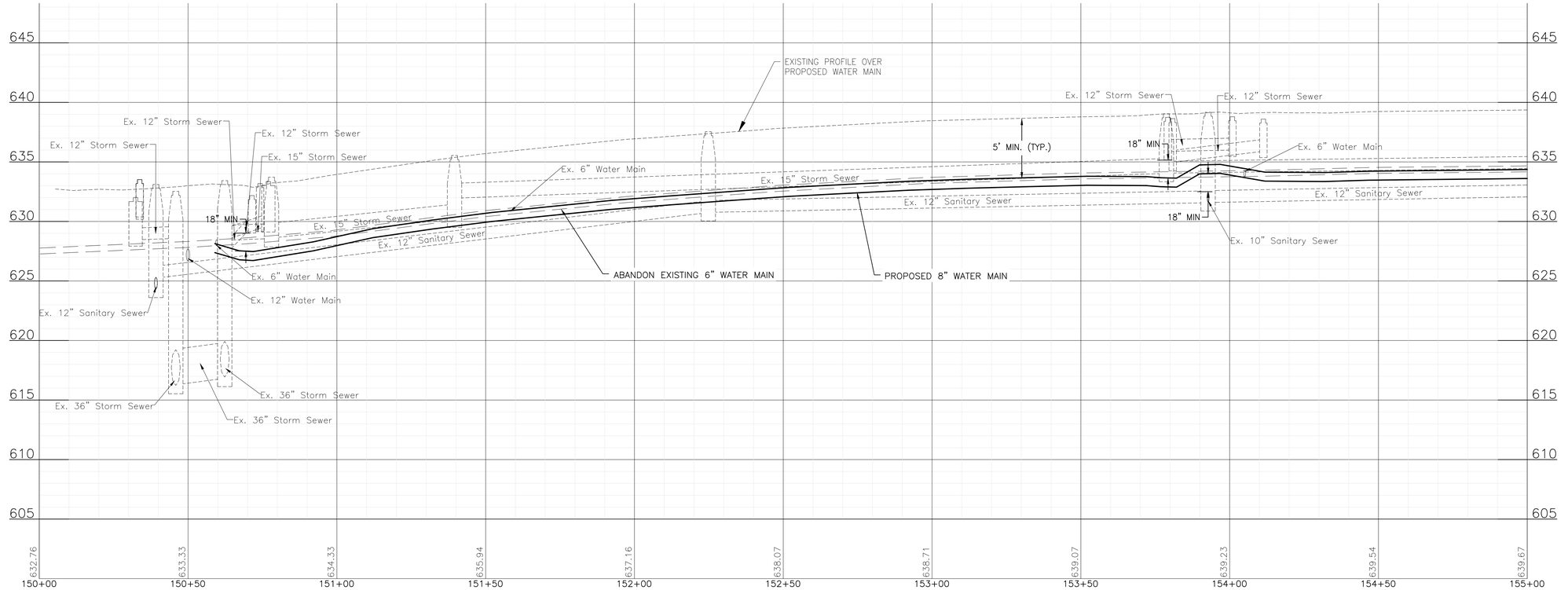
BLACKMAN AVENUE STA. 143+50 TO STA. 147+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

DESIGNED – EMK	TOTAL SHEETS: 29
DRAWN – JJS	SHEET NO.: 19
CHECKED – MJK	
DATE – 11/07/22	

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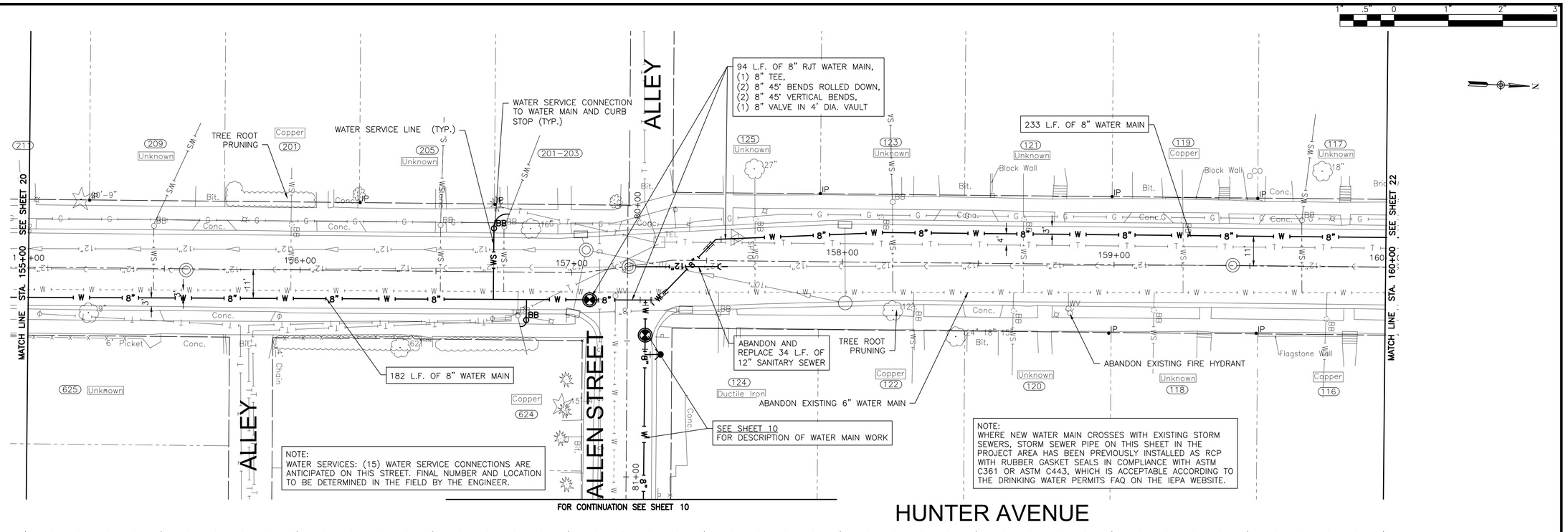
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

HUNTER AVENUE STA. 150+00 TO STA. 155+00 PLAN AND PROFILE

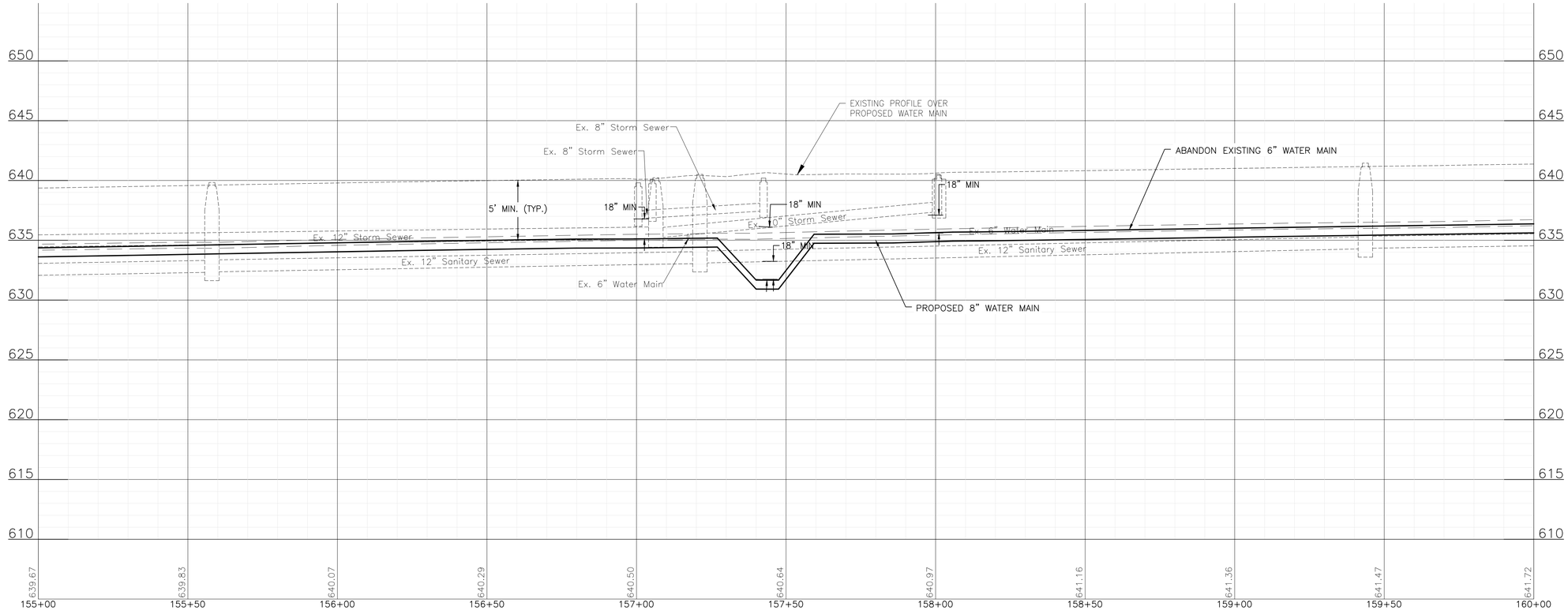
SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – EMK			
DRAWN – JJS		29	20
CHECKED – MJK			
DATE – 11/07/22			

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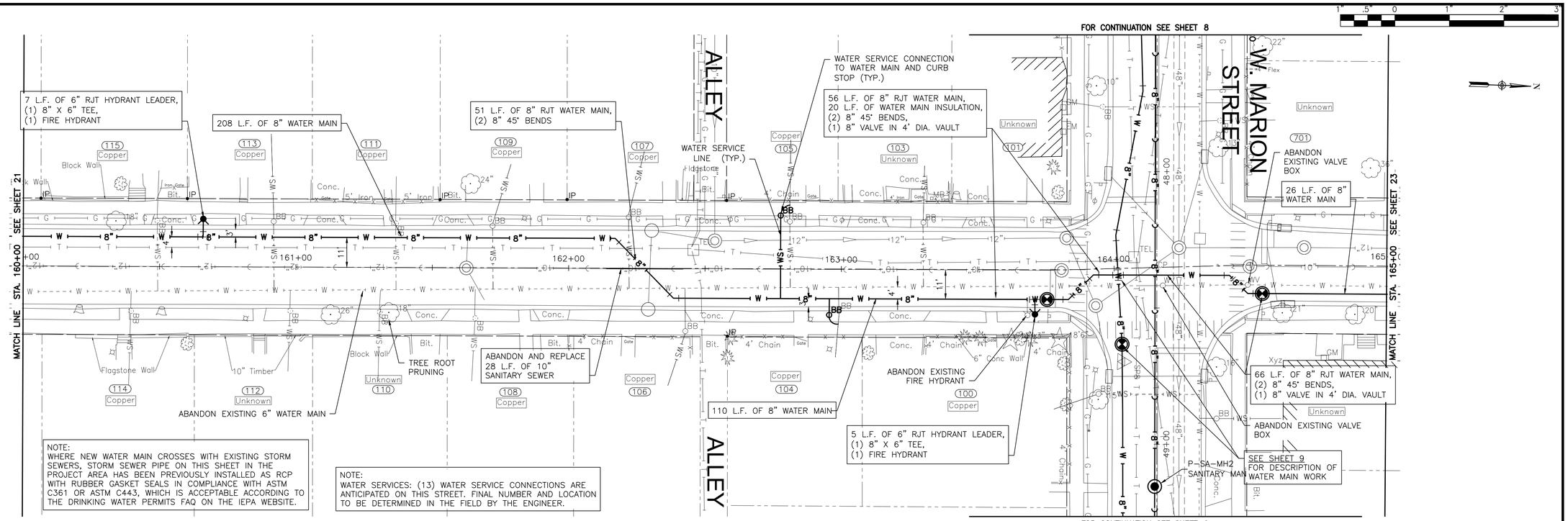
HUNTER AVENUE



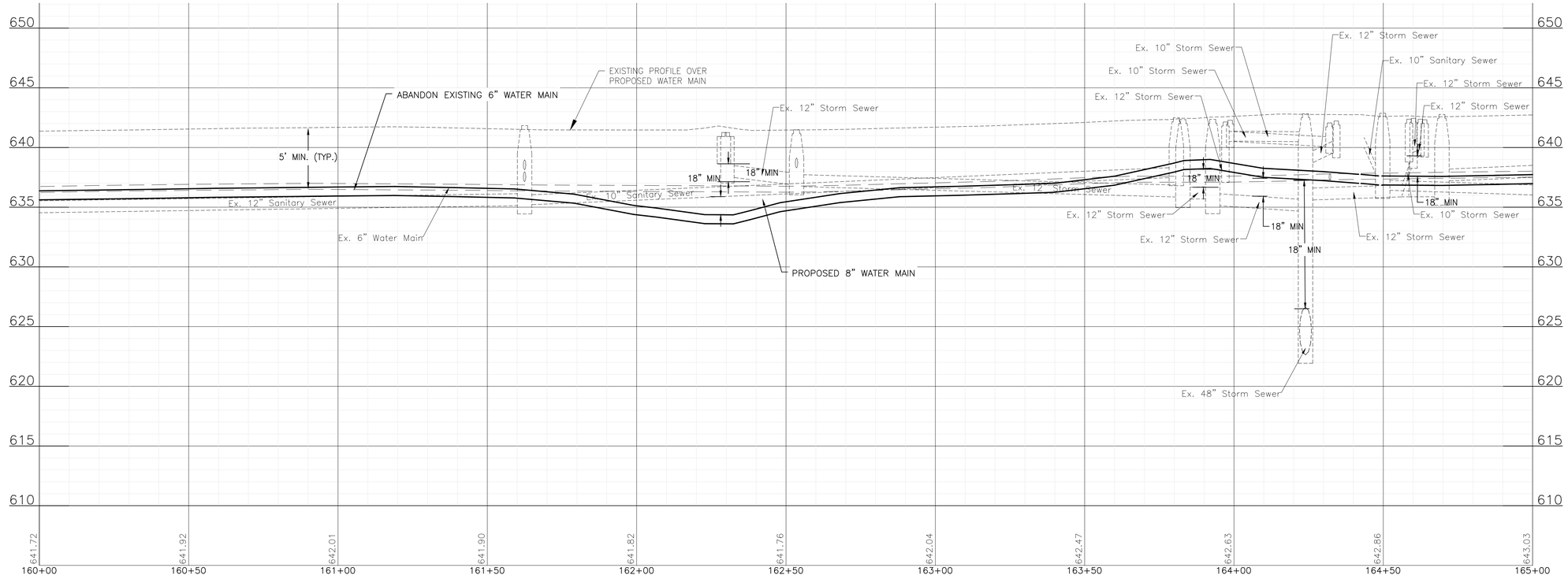
FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO.2689-0123	HUNTER AVENUE STA. 155+00 TO STA. 160+00 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917	DESIGNED – EMK DRAWN – JJS CHECKED – MJK DATE – 11/07/22 TOTAL SHEETS: 29 SHEET NO.: 21

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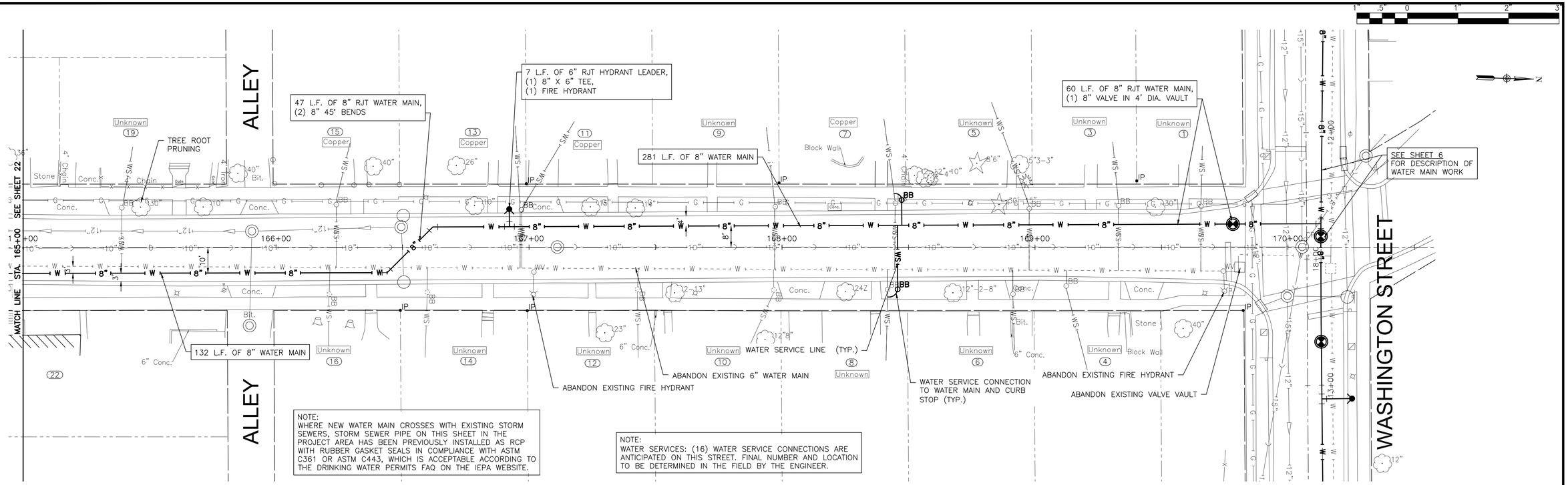
HUNTER AVENUE



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BAXTER & WOODMAN Consulting Engineers

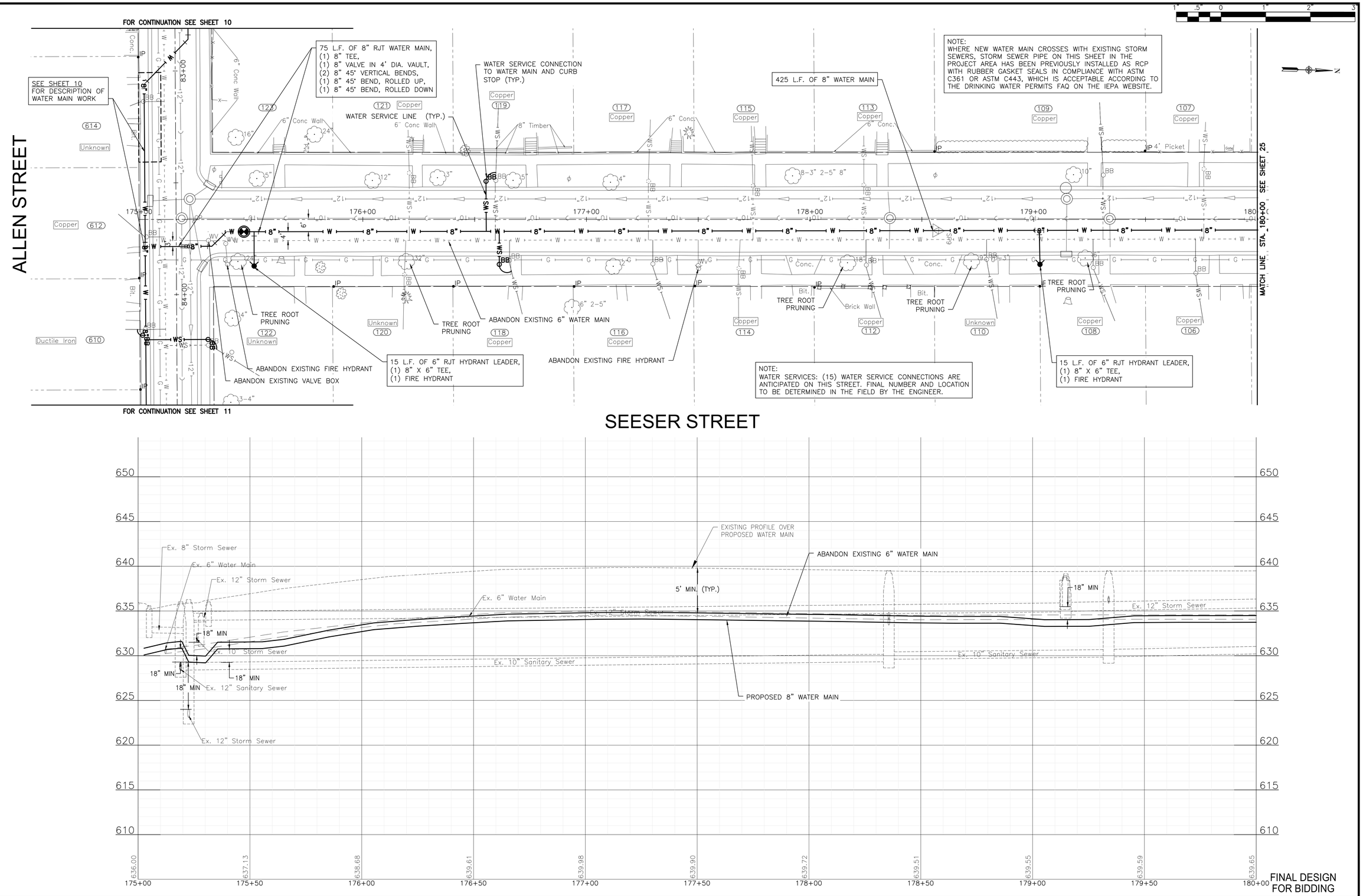
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

HUNTER AVENUE STA. 165+00 TO STA. 171+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5" | PROJECT NO: 211917

DESIGNED – EMK	TOTAL SHEETS: 29
DRAWN – JJS	SHEET NO.: 23
CHECKED – MJK	
DATE – 11/07/22	

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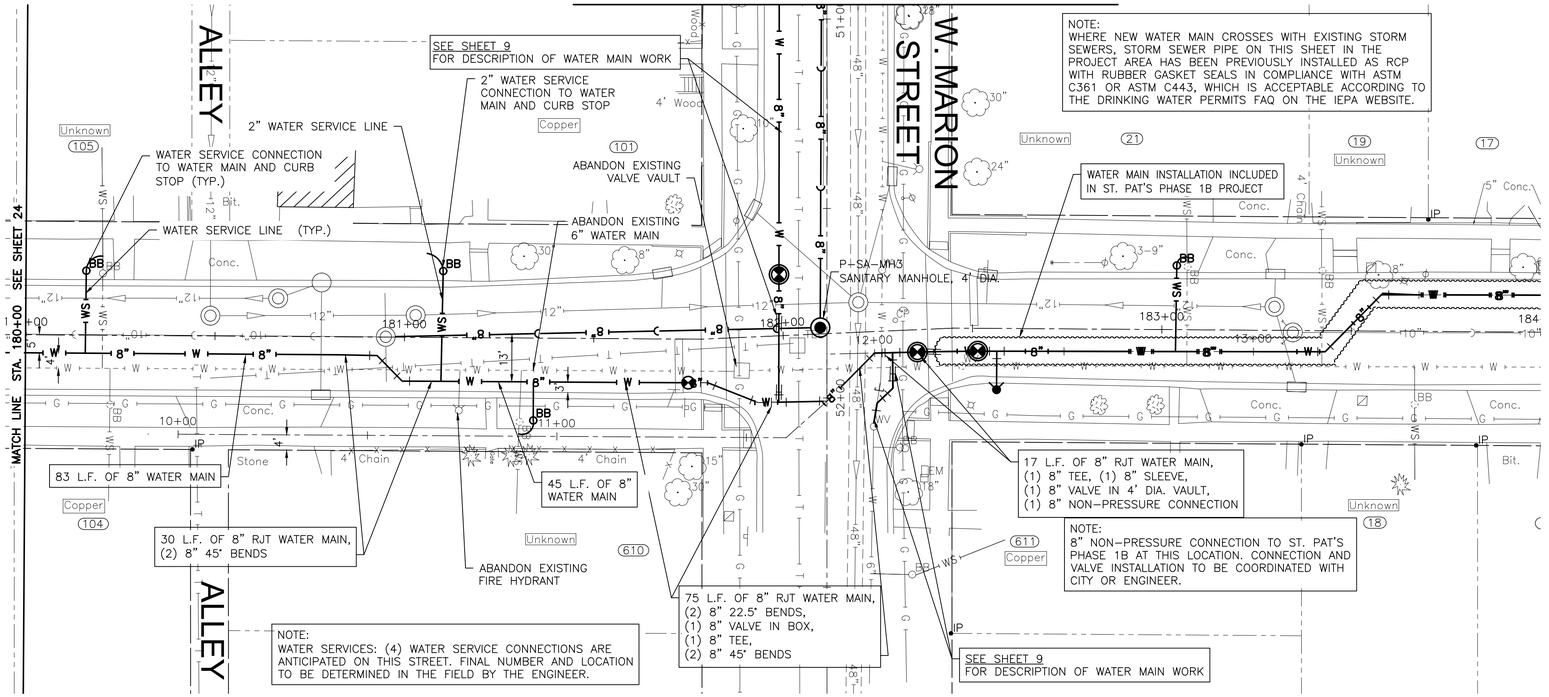
CONSULTANTS	REVISED –
	REVISED –
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	REVISED –

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

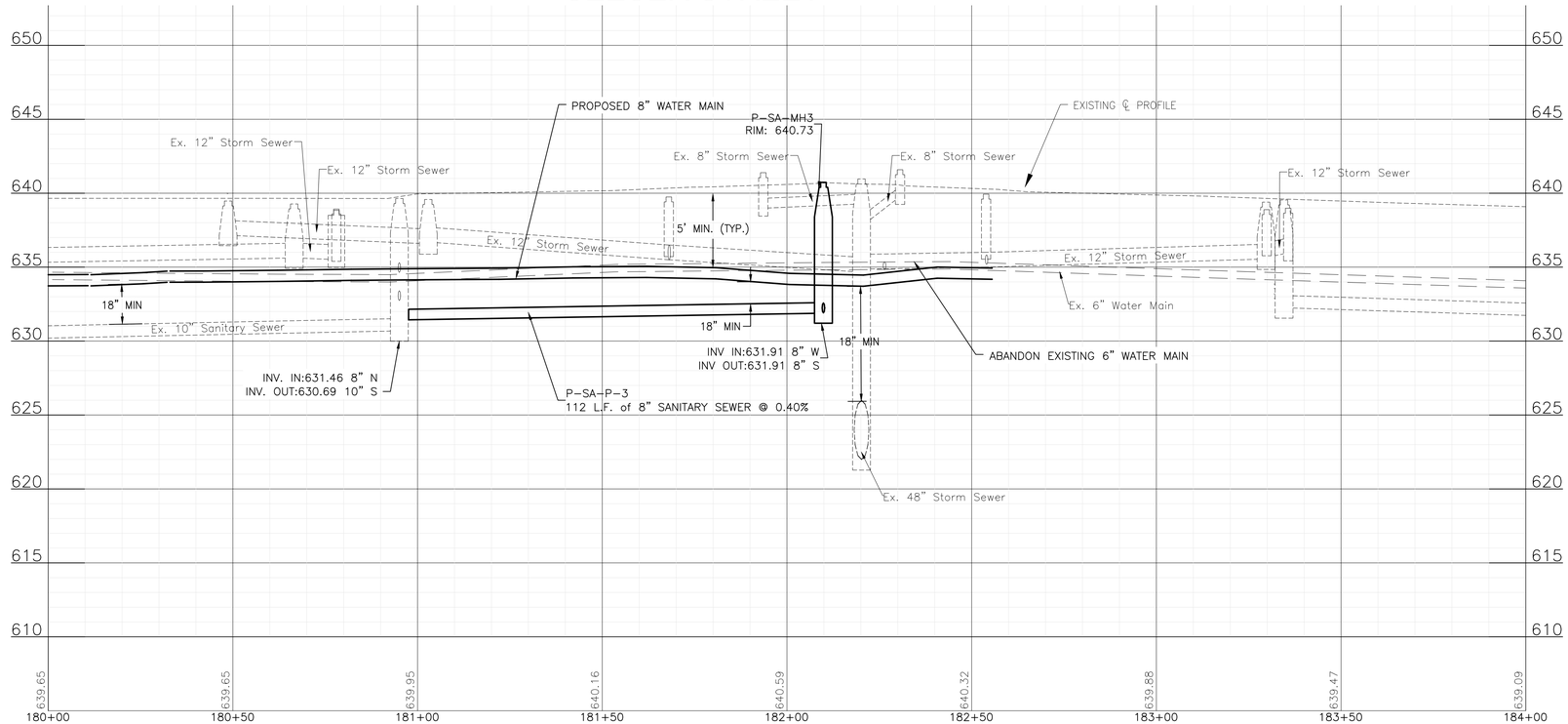
SEESER STREET STA. 175+00 TO STA. 180+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

		TOTAL SHEETS	SHEET NO.
DESIGNED – EMK			
DRAWN – JJS		29	24
CHECKED – MJK			
DATE – 11/07/22			



SEESER STREET



FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers	CONSULTANTS / REVISED –	CITY OF JOLIET, ILLINOIS ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO.2689-0123	SEESER STREET STA. 180+00 TO STA. 184+00 PLAN AND PROFILE SCALE: HORIZ 1"=20' / VERT 1"=5' PROJECT NO: 211917	DESIGNED – EMK DRAWN – JJS CHECKED – MJK DATE – 11/07/22	TOTAL SHEETS: 29 SHEET NO.: 25

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FOR CONTINUATION SEE SHEET 14

FOR CONTINUATION SEE SHEET 11

DARCY AVENUE

ALLEY

ALLEN STREET

54 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN 4' DIA. VAULT,
(2) 8" 45° BENDS

230 L.F. OF 8" WATER MAIN

SEE SHEET 11
FOR DESCRIPTION OF WATER MAIN WORK

7 L.F. OF 6" RJT HYDRANT LEADER,
(1) 8" X 6" TEE,
(1) FIRE HYDRANT

7 L.F. OF 6" RJT HYDRANT LEADER,
(1) 8" X 6" TEE,
(1) FIRE HYDRANT

77 L.F. OF 8" RJT DI WATER MAIN,
(4) 8" 45° VERTICAL BENDS,
(1) 8" VALVE IN 4' DIA. VAULT

SEE SHEET 14
FOR DESCRIPTION OF WATER MAIN WORK

TREE ROOT PRUNING

TREE ROOT PRUNING

SANITARY MANHOLE, 4' DIA.
P-SA-MH4

WATER SERVICE LINE (TYP.)

WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (TYP.)

(2) 8" 45° BENDS,
(1) 8" SLEEVE,
(1) 8" X 6" REDUCER,
(1) 6" NON-PRESSURE CONNECTION

(2) 8" 45° BENDS,
(1) 8" TEE

REMOVE AND REPLACE 10 L.F. OF 12" SANITARY SEWER

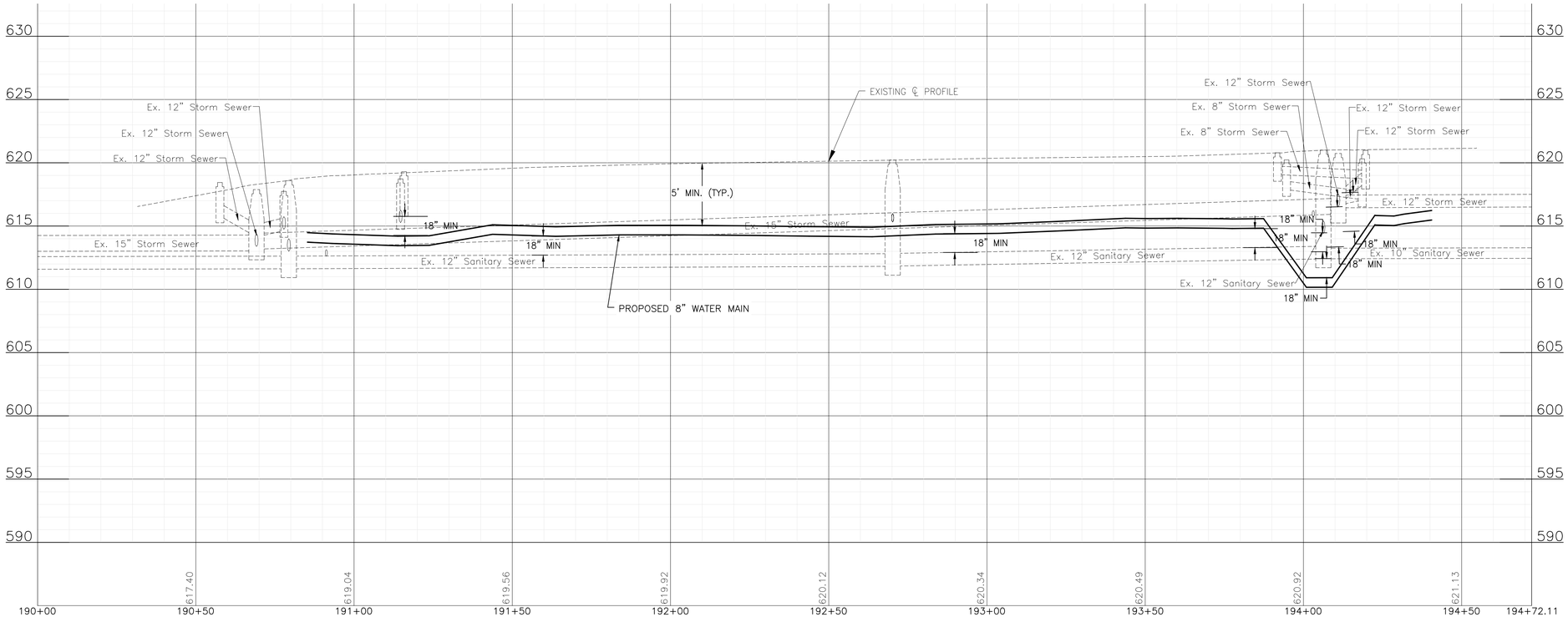
REMOVE AND REPLACE 10 L.F. OF 10" SANITARY SEWER

EXCAVATION AND POINT REPAIR NO. 2
REMOVE AND REPLACE 4' DIA. MANHOLE
INCLUDE 3 L.F. OF 12" SANITARY SEWER FOR EACH CONNECTING PIPE

NOTE:
WATER SERVICES: (9) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.

ILLINOIS STREET



FINAL DESIGN
FOR BIDDING

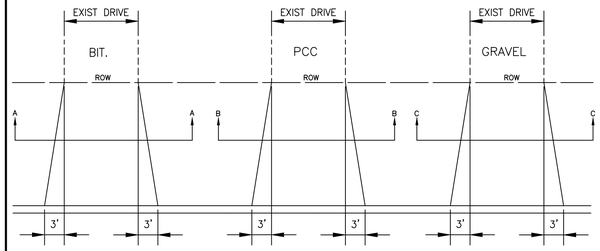
BAXTER & WOODMAN Consulting Engineers	CONSULTANTS	REVISED –	CITY OF JOLIET, ILLINOIS ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS CITY OF JOLIET CONTRACT NO.2689-0123
		REVISED –	
		REVISED –	
		REVISED –	

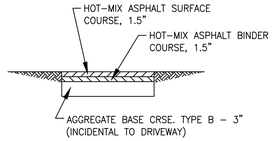
ILLINOIS STREET STA. 190+00 TO STA. 195+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 211917

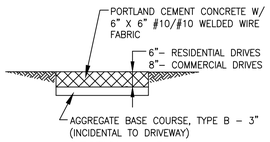
		TOTAL SHEETS	SHEET NO.
DESIGNED – EMK			
DRAWN – JJS			
CHECKED – MJK		29	26
DATE – 11/07/22			

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL 3D\01_SHTS-PLANS\211917-ST.PATS AREA PH 1-DESIGN.DWG ILLINOIS STREET STA. 190+00 TO STA. 195+00 PLAN AND PROFILE
Plotted: 11/2/2022 4:48 PM By: ANACINO
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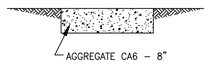




SECTION – A
HOT-MIX ASPHALT



SECTION – B
P.C.C



SECTION – C
GRAVEL

NOTES:

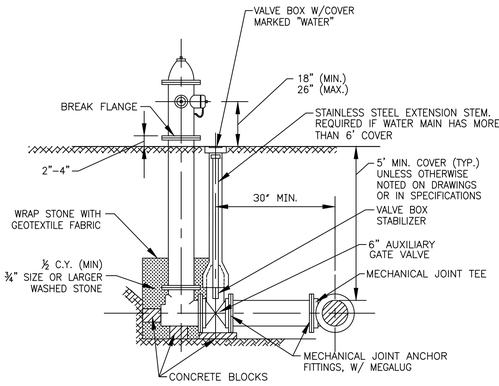
1. APRON: 8:1 SLOPE FROM FRONT OF SIDEWALK TO BACK OF CURB.
2. SIDEWALK: 1/4" / FT SLOPE

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

DRIVEWAY PAVEMENT
DETAIL
PVT-01

DATE: OCT. 2017



NOTES:

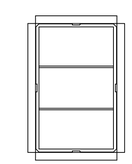
1. MUELLER CENTURION A423, CLOW MEDALLION OR E.J. 5BR250 (RED FOR MUNICIPAL TREATED WATER, GREEN FOR RAW WATER, YELLOW FOR PRIVATE HYDRANTS)
2. HYDRANTS SHALL BE LOCATED A MINIMUM OF 2 FEET BEHIND THE BACK OF CURB IN LOCATIONS SHOWN ON THE DRAWINGS
3. USE SWIVEL TEE AS CALLED OUT ON PLANS. 30" MINIMUM SEPARATION DOES NOT APPLY WHEN USING SWIVEL TEES.

NOT TO SCALE

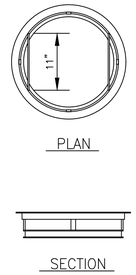
CITY OF JOLIET, ILLINOIS

FIRE HYDRANT
DETAIL
WTR-03

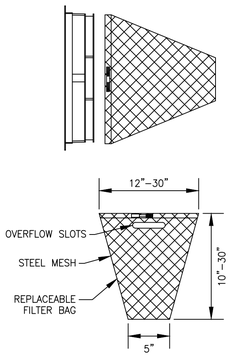
DATE: JUL. 2019



PLAN



SECTION



GENERAL NOTES:

FRAME: TOP RING CONSTRUCTED FROM 1 1/4" x 1 1/4" x 1/8" ANGLE. BASE RING CONSTRUCTED OF 1 1/2" x 1/2" x 1/8" CHANNEL. HANDLES & SUSPENSION BRACKETS CONSTRUCTED FROM 1/4" x 1 1/4" FLAT. ALL STEEL CONFORMING TO ASTM-A36.

REPLACEABLE BAG: CONSTRUCTED FROM 4 OZ./SQ. YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. CONNECTED TO BASE RING WITH STAINLESS STEEL STRAP & LOCK.

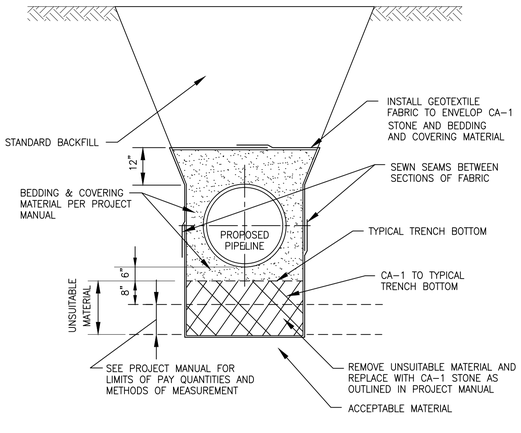
STEEL MESH: REMOVABLE STAINLESS STEEL MESH STRAINER BASKET. 1/4" DIA. HOLE SIZE, 58% OPEN AREA.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

INLET PROTECTION
FILTER DETAIL
GEN-02

DATE: OCT. 2017



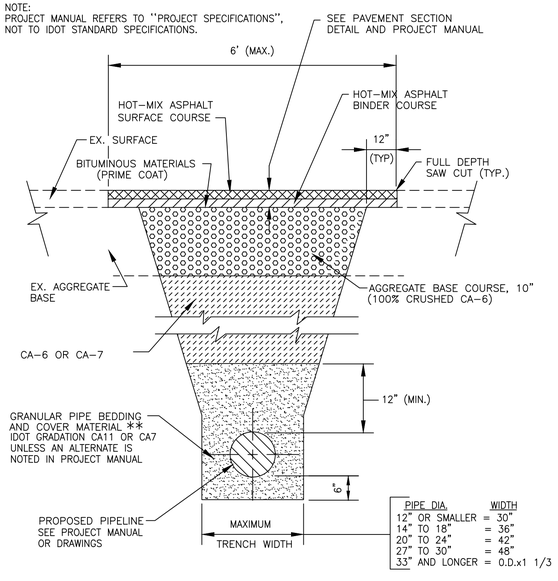
NOT TO SCALE

CITY OF JOLIET, ILLINOIS

OPEN CUT PIPELINE
INSTALLATION UNSUITABLE
MATERIAL
REMOVAL/REPLACEMENT
GEN-03

DATE: OCT. 2017

NOTE:
PROJECT MANUAL REFERS TO "PROJECT SPECIFICATIONS", NOT TO IDOT STANDARD SPECIFICATIONS.



PIPE DIA.	WIDTH
12" OR SMALLER	= 30"
14" TO 18"	= 36"
20" TO 24"	= 42"
27" TO 30"	= 48"
33" AND LONGER	= O.D.x1 1/3

FOR PAVEMENT WITH AGGREGATE BASE AND COMPACTED GRANULAR BACKFILL MATERIAL

** FOR FLEXIBLE THERMOPLASTIC PIPE COMPLY WITH ASTM D2321, CLASS IA, IB, OR II., (IDOT GRADATION CA15)

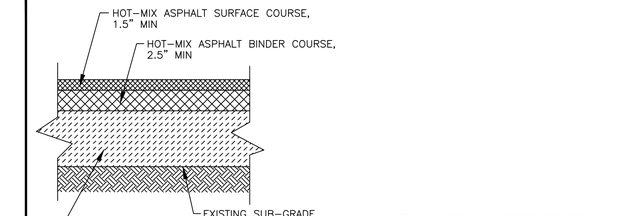
FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

NOT TO SCALE

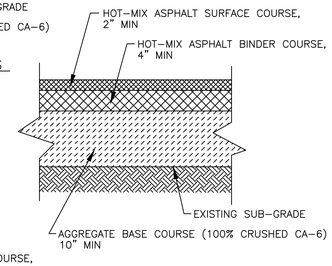
CITY OF JOLIET, ILLINOIS

TYPICAL TRENCH DETAIL
PAVEMENT AREA
AGGREGATE BASE
GEN-04

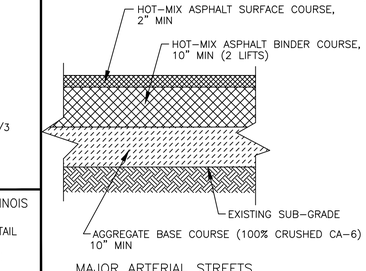
DATE: OCT. 2017



MINOR RESIDENTIAL STREETS



ARTERIAL STREETS



MAJOR ARTERIAL STREETS

NOTES:

1. ALL PAVEMENT PATCHES SHALL BE SAWCUT FULL-DEPTH.
2. MAXIMUM ALLOWABLE WIDTH USED FOR TRENCH RESTORATION PAY QUANTITY CALCULATIONS SHALL BE 6'.
3. DETAILS APPLY UNLESS OTHERWISE NOTED ON PLANS.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL PAVEMENT
SECTION
PVT-02

DATE: OCT. 2017

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

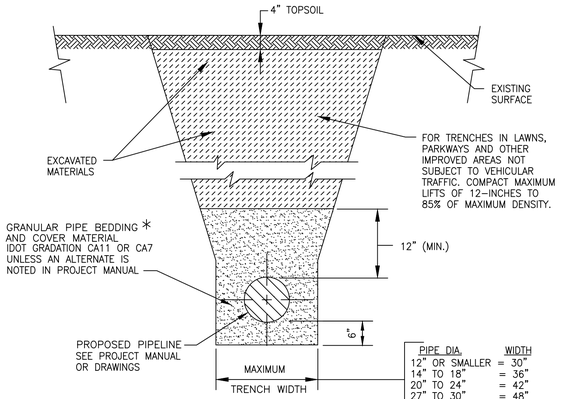
DETAILS

SCALE: AS NOTED | PROJECT NO: 211917

DESIGNED – EMK	TOTAL SHEETS: 29
DRAWN – JJS	SHEET NO.: 27
CHECKED – MJK	
DATE – 11/07/22	

P:\JOLIT\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL 3D\01_SHTS-PLANS\211917-COVER_GEN_DETS-ST. PATS AREA PH 1A.DWG DETAILS
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NOTES:
1. PROJECT MANUAL REFERS TO "PROJECT SPECIFICATIONS", NOT TO IDOT STANDARD SPECIFICATIONS.
2. FARM FIELDS, GARDENS, AND WETLAND AREAS MAY REQUIRE STRIPPING, STOCKPILING, AND REPLACING ORIGINAL MATERIAL TO A SPECIFIC DEPTH. SEE PROJECT MANUAL OR GENERAL NOTES FOR REQUIREMENTS.



FOR NON-PAVED AREAS

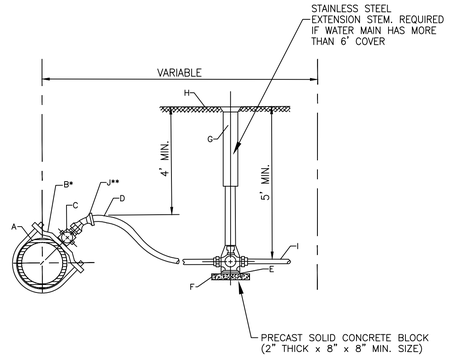
* FOR HDPE PIPE COMPLY WITH ASTM 2321, CLASS I OR II. FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

TYPICAL TRENCH DETAIL
NON PAVED AREAS
GEN-05

DATE: OCT. 2017



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

CONSTRUCTION NOTES

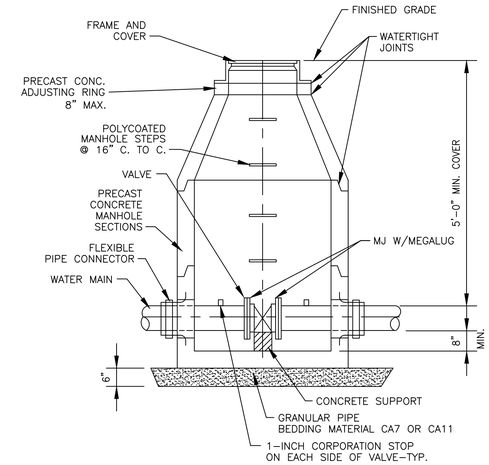
NOTE: FOR 1 1/2" OR 2" SERVICE, ADD ENLARGED BASE FOR SERVICE BOX.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER SERVICE
CONNECTION DETAIL
WTR-06

DATE: OCT. 2020



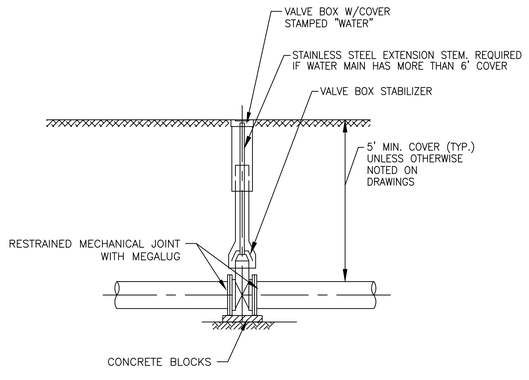
NOTES:
1. CONCENTRIC CONE REQUIRED FOR GATE VALVES, ECCENTRIC CONE REQUIRED FOR BUTTERFLY VALVES.
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 10", 5'-0" FOR SIZES 12" OR GREATER
3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE VAULT
DETAIL
WTR-01

DATE: OCT. 2017

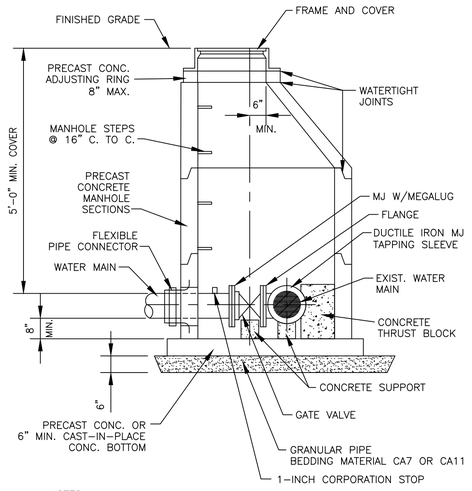


NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER VALVE BOX
DETAIL
WTR-02

DATE: OCT. 2017



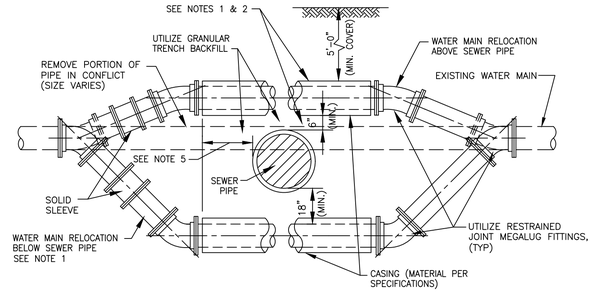
NOTES:
1. ECCENTRIC CONE REQUIRED
2. USE 4'-0" DIAMETER FOR WATER MAIN SIZES 4" THRU 8", USE 5'-0" DIAMETER FOR WATER MAIN SIZES 10" THRU 14", USE 6'-0" DIAMETER (OR LARGER PER DESIGNER) FOR WATER MAIN SIZES 16" OR GREATER.
3. PROVIDE CAST IRON FRAME AND COVER WITH HEAVY DUTY LID, STAMPED WITH "CITY OF JOLIET" AND "WATER". EJ 1050Z1

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PRESSURE CONNECTION
DETAIL
WTR-07

DATE: OCT. 2017



NOTES:
1. ONLY TO BE USED IF WATER MAIN CANNOT CROSS ABOVE PROPOSED SEWER AND MAINTAIN THE REQUIRED 18" OF SEPARATION AS SHOWN ON DRAWING, OR APPROVED BY ENGINEER IN FIELD.
2. WHEN WATER MAIN CROSSES ABOVE SEWER AND MAINTAINS THE REQUIRED 18" OF SEPARATION, THE CASING PIPE IS NOT REQUIRED.
3. WATER MAIN RELOCATIONS ARE SUBJECT TO INSPECTION AT NORMAL SYSTEM PRESSURE BEFORE BURIAL.
4. USE ONLY 45 DEGREE BENDS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
5. CASING MUST EXTEND A MINIMUM OF 10 FEET BEYOND OUTSIDE EDGE OF SEWER PIPE – ON BOTH SIDES OF SEWER.

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

WATER MAIN RELOCATION
DETAIL
WTR-05

DATE: OCT. 2017

FINAL DESIGN
FOR BIDDING

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CONSULTANTS	REVISED –
	REVISED –
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	REVISED –

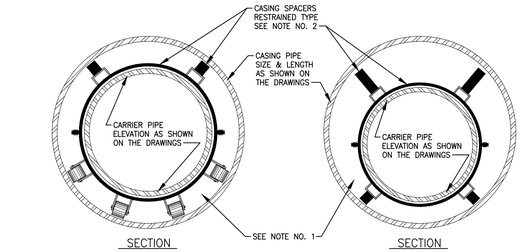
CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

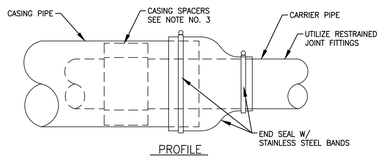
DETAILS

SCALE: AS NOTED | PROJECT NO: 211917

DESIGNED – EMK	
DRAWN – JJS	
CHECKED – MJK	
DATE – 11/07/22	

TOTAL SHEETS	SHEET NO.
29	28





NOTES

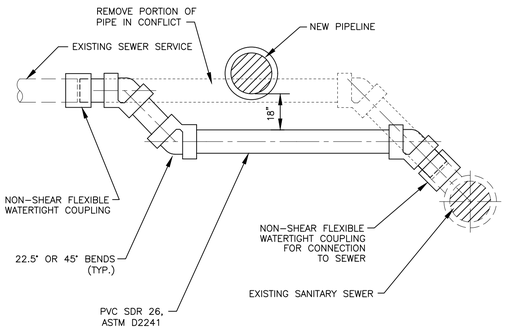
1. FILLING OF ANNULAR SPACE BETWEEN CARRIER PIPE AND CASING PIPE WITH SAND OR PEA GRAVEL IS NOT REQUIRED WHEN UTILIZING CASING SPACERS, UNLESS CONTRACTOR IS INSTRUCTED TO DO SO ON DRAWINGS OR IN SPECIFICATIONS.
2. WHERE CARRIER PIPE IS NOT CENTERED IN CASING PIPE, PROVIDE CASING SPACERS WITH LEGS THAT EXTEND TO WITHIN 1-INCH OF CASING INSIDE DIAMETER ON ALL SIDES (RESTRAINED TYPE).
3. PROVIDE NUMBER OF SPACERS AS INSTRUCTED BY SPACER MANUFACTURER, WITH A MINIMUM OF ONE SPACER ON EACH SIDE OF A PIPE JOINT, AND ONE SPACER BETWEEN JOINTS. (THREE (MIN.) PER PIPE LENGTH)
4. ALL CARRIER PIPE INSTALLED WITHIN CASING PIPE TO BE RESTRAINED JOINT TYPE

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

CASING DETAIL
GEN-01

DATE: OCT. 2017

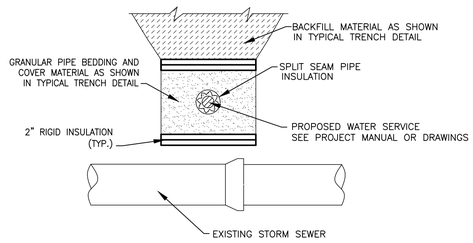


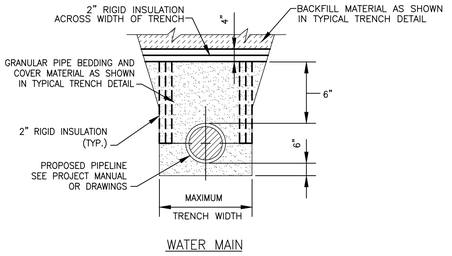
NOT TO SCALE

CITY OF JOLIET, ILLINOIS

SANITARY SEWER SERVICE RELOCATION
SAN-03

DATE: OCT. 2017





NOTES:

1. TO BE USED WHEN WATER MAIN AND / OR WATER SERVICE BURY DEPTH IS < 4' OR WHEN WATER SERVICE CROSSES ABOVE STORM SEWER.

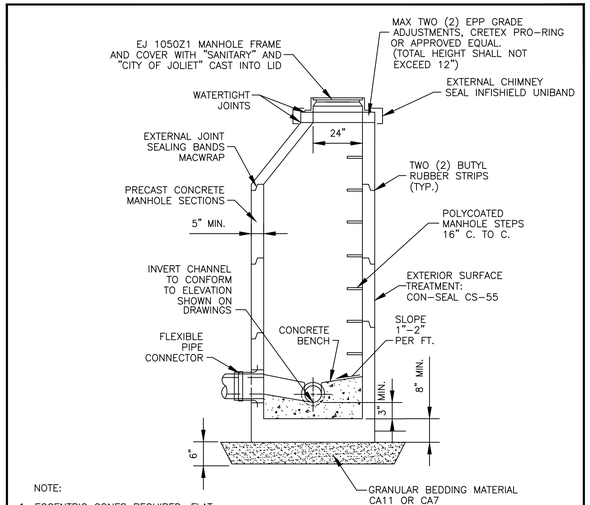
NOT TO SCALE

CITY OF JOLIET, ILLINOIS

PIPE INSULATION DETAIL
WTR-04

DATE: OCT. 2017

CITY OF JOLIET						
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS						
SANITARY MANHOLE STRUCTURE TABLES						
SHEET 8						
STRUCTURE NO.	STATION	STRUCTURE TYPE	RIM/EOP	INVERTS		
P-SA-MH1	45+60	SANITARY MANHOLE, 4' DIAMETER	642.34	634.38 8" E		
P-SA-MH2	49+20	SANITARY MANHOLE, 4' DIAMETER	642.76	632.97 8" E	632.97 8" W	
SHEET 9						
STRUCTURE NO.	STATION	STRUCTURE TYPE	RIM/EOP	INVERTS		
P-SA-MH3	51+80	SANITARY MANHOLE, 4' DIAMETER	640.73	631.91 8" W	631.91 8" S	
SHEET 25						
STRUCTURE NO.	STATION	STRUCTURE TYPE	RIM/EOP	INVERTS		
X-SA-MH-61	81+95	SANITARY MANHOLE, 4' DIAMETER	639.64	631.46 8" N	630.69 10" S	



NOTE:

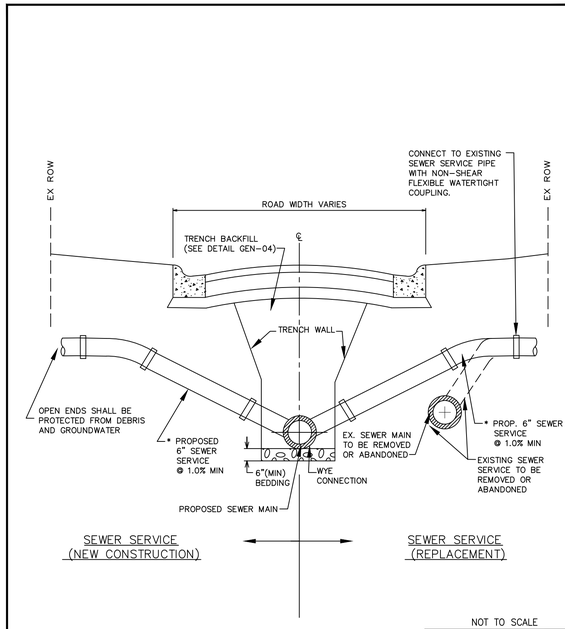
1. ECCENTRIC CONES REQUIRED, FLAT SLAB TOPS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
2. MANHOLE DIAMETER SHALL BE DETERMINED BY THE SEWER DEPTH, THE SEWER OUTSIDE DIAMETER, RELATIVE ANGLES OF SEWERS TO EACH OTHER, THE SIZE OF HOLES CORED/CAST FOR BOOTS, AND A MINIMUM OF 8" BETWEEN CORED/CAST HOLES. FOR SEWER SIZES 8" THROUGH 15", USE 4'-0" DIAMETER. FOR SEWER DEPTHS 15' AND GREATER, USE 5'-0" DIAMETER.
3. ALL LIFT HOLES ARE TO BE GROUTED FROM THE INSIDE AND OUTSIDE BEFORE BACKFILLING.
4. MANHOLES THAT HAVE FORCE MAINS DISCHARGING INTO THEM SHALL BE COATED WITH SHERWIN WILLIAMS DURAPLATE 6100 OR RAVEN 405

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

SANITARY MANHOLE DETAIL
SAN-01

DATE: OCT. 2017



* SERVICE PIPE MATERIAL: PVC SDR 26, ASTM D2241

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

SANITARY SEWER SERVICE
SAN-02

DATE: OCT. 2017

DI-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)						
FITTING TYPE	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	–

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

POLYWRAPPED DI RJT DETAIL
RJT-01

DATE: OCT. 2022

PVC-RESTRAINT JOINT TYPE PIPE LENGTH (FEET)						
FITTING TYPE	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	–

NOT TO SCALE

CITY OF JOLIET, ILLINOIS

POLYWRAPPED PVC RJT DETAIL
RJT-02

DATE: OCT. 2022

FINAL DESIGN FOR BIDDING

P:\JOLTC\211917-2023 WATER MAIN PROGRAM\CAD\ST. PATS AREA PH 1\01_CIVIL 3D\01_SHTS-PLANS\211917-COVER_GEN_DETS-ST. PATS AREA PH 1A.DWG DETAILS 3
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BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED –
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
ST. PAT'S PHASE 1A WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2689-0123

DETAILS

SCALE: AS NOTED | PROJECT NO: 211917

DESIGNED – EMK	
DRAWN – JJS	
CHECKED – MJK	
DATE – 11/07/22	

TOTAL SHEETS	SHEET NO.
29	29