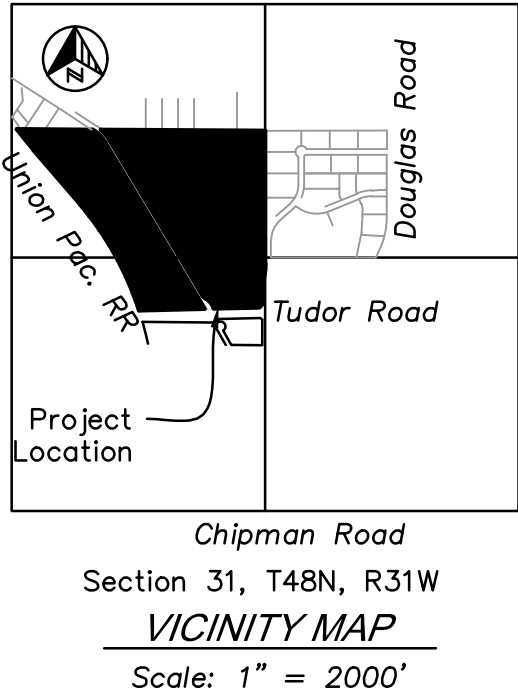


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DATE: Mar 04, 2022 8:40am XREFS: C:\WAT_TBLK_02104157 C:\PBASE_02104157 C:\XAERIAL_02104157 USER: Imoore



THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

DEVELOPMENT TEAM CONTACT INFORMATION	
OWNER/DEVELOPER	
SHAUN COFER SCANNELL PROPERTIES #436, LLC	8801 RIVER CROSSING BLVD SUITE 300 INDIANAPOLIS, IN 46240 PH: 317-218-1648 EMAIL: Shaunc@scannellproperties.com
CIVIL ENGINEER	
SETH REECE/LUKE MOORE MITCH PLEAK, PE OLSSON	7301 W. 133RD STREET SUITE 200 OVERLAND PARK, KS 66213 PH: 913.381.1170 EMAIL: sreece@olsson.com / lmoore@olsson.com EMAIL: mpleak@olsson.com

UTILITY AND GOVERNING AGENCY CONTACT INFORMATION	
CITY OF LEE'S SUMMIT, MO	
CITY OF LEE'S SUMMIT: CITY HALL	220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PH: 816-969-1800
LEE'S SUMMIT DEVELOPMENT SERVICES:	220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PH: 816-969-1200
LEE'S SUMMIT PUBLIC WORKS:	220 SE GREEN STREET LEE'S SUMMIT, MO 64063 PH: 816-969-1800
LEE'S SUMMIT WATER UTILITIES:	1200 SE HAMBLIN ROAD LEE'S SUMMIT, MO 64081 PH: 816-969-1900
LEE'S SUMMIT R-7 SCHOOL DISTRICT	KINZIE WOODERSON 301 NE TUDOR ROAD LEE'S SUMMIT, MO 64086 PH: 816-986-1050 KINZIE.WOODERSON@LRS7.NET
CABLE/FIBER/TELEPHONE SERVICE	
AT&T	RON GIFFERT 500 E. 8TH STREET, ROOM 1146 KANSAS CITY, MO 64106 PH: 816-275-1550 EMAIL: RG7910@ATT.COM
CONSOLIDATED COMMUNICATIONS	JOHN CASTILOW 14859 W. 95TH STREET LENEXA, KS 66215 PH: 913-322-9785 EMAIL: JOHNCASTILOW@CONSOLIDATED.COM
GOOGLE FIBER	LAUREN MARCUCCI 1814 WESTPORT ROAD KANSAS CITY, MO 64111 PH: 913-663-1900 EMAIL: LMARCUCCI@GOOGLE.COM
CHARTER/SPECTRUM	TROY PREWITT 8221 W. 119TH STREET OVERLAND PARK, KS 66213 PH: 816-401-3573 EMAIL: TROY.PREWITT@CHARTER.COM
ELECTRIC SERVICE	
EVERGY	JEFF R. WILLIAMS - ENGINEER CENTRAL DIVISION 401 SE BAILEY ROAD LEE'S SUMMIT, MO 64081 PH: 816-347-4310 EMAIL: JEFF.WILLIAMS@KCPL.COM
GAS SERVICE	
SPIRE GAS	RICHARD FROCK 3025 SE CLOVER DRIVE LEE'S SUMMIT, MO 64082 PH: 816-472-3489 EMAIL: RICHARD.FROCK@SPIREENERGY.COM

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS PUBLIC WATER MAIN EXTENSION PLANS

AN UNPLATTED PARCEL IN THE WEST HALF OF
SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST,
IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



LOCATION MAP
NOT TO SCALE

PROPERTY DESCRIPTION:

ALL THAT PART OF AN UNPLATTED TRACT OF LAND, TOGETHER WITH ALL THAT PART OF NORTH MAIN STREET RIGHT OF WAY, ALL LYING IN THE WEST HALF OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST, LYING IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, DESCRIBED BY PATRICK ETHAN WARD, MO PLS-20050071, OF OLSSON MOLC-366, AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 48 NORTH, RANGE 31 WEST; THENCE SOUTH 01 DEGREE 59 MINUTES 47 SECONDS WEST, ON THE EAST LINE OF SAID SOUTHWEST QUARTER, A DISTANCE OF 65.98 FEET TO A POINT ON THE WEST LINE OF NW SLOAN STREET RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 2013E0075031, SAID POINT ALSO LYING ON A NON-TANGENT CURVE; THENCE IN A SOUTHERLY DIRECTION, DEPARTING SAID EAST LINE, ON SAID WEST LINE AND ON A CURVE TO THE RIGHT WHOSE INITIAL TANGENT BEARS SOUTH 02 DEGREES 47 MINUTES 37 SECONDS WEST, HAVING A RADIUS OF 970.00 FEET, THROUGH A CENTRAL ANGLE OF 6 DEGREES 27 MINUTES 07 SECONDS, AN ARC DISTANCE OF 109.23 FEET TO A POINT OF TANGENCY; THENCE SOUTH 09 DEGREES 14 MINUTES 44 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 111.80 FEET TO A POINT OF CURVATURE; THENCE IN A SOUTHERLY DIRECTION, CONTINUING ON SAID WEST LINE AND ON A CURVE TO THE LEFT, HAVING A RADIUS OF 1030.00 FEET, THROUGH A CENTRAL ANGLE OF 7 DEGREES 14 MINUTES 57 SECONDS, AN ARC DISTANCE OF 130.32 FEET TO A POINT OF TANGENCY; THENCE SOUTH 01 DEGREE 59 MINUTES 47 SECONDS WEST, CONTINUING ON SAID WEST LINE, A DISTANCE OF 69.49 FEET TO A POINT ON THE NORTH LINE OF NE TUDOR ROAD RIGHT OF WAY, AS ESTABLISHED IN SAID DOCUMENT 2013E0075031; THENCE SOUTH 48 DEGREES 15 MINUTES 48 SECONDS WEST, DEPARTING SAID WEST LINE, ON SAID NORTH LINE, A DISTANCE OF 46.09 FEET TO A POINT; THENCE NORTH 89 DEGREES 24 MINUTES 16 SECONDS WEST, CONTINUING ON SAID NORTH LINE, AND ON THE NORTH LINE OF NW TUDOR ROAD RIGHT OF WAY, AS ESTABLISHED IN DOCUMENT 2013E0075030, A DISTANCE OF 1249.23 FEET TO A POINT ON THE EAST LINE OF UNION PACIFIC RAILROAD RIGHT OF WAY, AS NOW ESTABLISHED, SAID POINT ALSO LYING ON A NON-TANGENT CURVE; THENCE IN A NORTHERLY AND NORTHWESTERLY DIRECTION, DEPARTING SAID NORTH LINE, ON SAID EAST LINE AND ON A CURVE TO THE LEFT WHOSE INITIAL TANGENT BEARS NORTH 15 DEGREES 46 MINUTES 27 SECONDS WEST, HAVING A RADIUS OF 3203.90 FEET, THROUGH A CENTRAL ANGLE OF 22 DEGREES 48 MINUTES 11 SECONDS, AN ARC DISTANCE OF 1275.12 FEET TO A POINT OF TANGENCY; THENCE NORTH 38 DEGREES 34 MINUTES 39 SECONDS WEST, CONTINUING ON SAID EAST LINE, A DISTANCE OF 738.40 FEET TO A POINT OF CURVATURE; THENCE IN A NORTHWESTERLY DIRECTION, CONTINUING ON SAID EAST LINE AND ON A CURVE TO THE RIGHT, HAVING A RADIUS OF 5981.13 FEET, THROUGH A CENTRAL ANGLE OF 2 DEGREES 39 MINUTES 22 SECONDS, AN ARC DISTANCE OF 277.27 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH HALF OF SAID NORTHWEST QUARTER, SAID POINT ALSO LYING ON A NON-TANGENT LINE; THENCE SOUTH 87 DEGREES 40 MINUTES 30 SECONDS EAST, DEPARTING SAID EAST LINE, ON SAID NORTH LINE, A DISTANCE OF 2581.78 FEET TO THE NORTHEAST CORNER OF SAID SOUTH HALF; THENCE SOUTH 01 DEGREE 53 MINUTES 30 SECONDS WEST, ON SAID EAST LINE OF SAID NORTHWEST QUARTER, A DISTANCE OF 1318.02 FEET TO THE POINT OF BEGINNING, CONTAINING 3,439,837 SQUARE FEET OR 78.9678 ACRES, MORE OR LESS.

OLSSON HAS BEEN RETAINED TO PROVIDE AS-BUILT DRAWINGS FOR THIS PROJECT.

Mitch Pleak
MITCHELL ALAN PLEAK, P.E.
CIVIL ENGINEER
MO # PE-2009016764

06/18/2024
DATE

Record Drawing

Sheet List Table	
Sheet Number	Sheet Title
WM1.00	TITLE SHEET
WM1.01	GENERAL NOTES
WM2.00	GENERAL LAYOUT PLAN
WM3.00	WATER MAIN PLAN AND PROFILE
WM3.01	WATER MAIN PLAN AND PROFILE
WM3.02	WATER MAIN PLAN AND PROFILE
WM3.03	WATER MAIN PLAN AND PROFILE
WM3.04	WATER MAIN PLAN AND PROFILE
WM3.05	WATER MAIN PLAN AND PROFILE
WM3.06	WATER MAIN PLAN AND PROFILE
WM4.00	DETAILS SHEET
WM4.01	DETAILS SHEET

AS BUILT
Date Surveyed 2023.09.27 and 2023.11.21
I hereby certify that the conditions shown are correct and the water main is acceptably located within existing easements or right of ways.
Mitch Pleak
Mitch Pleak, P.E.

olsson

Olsson - Civil Engineering
Missouri Certificate of Authority #001692
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4760
TEL 913.381.1170
www.olsson.com

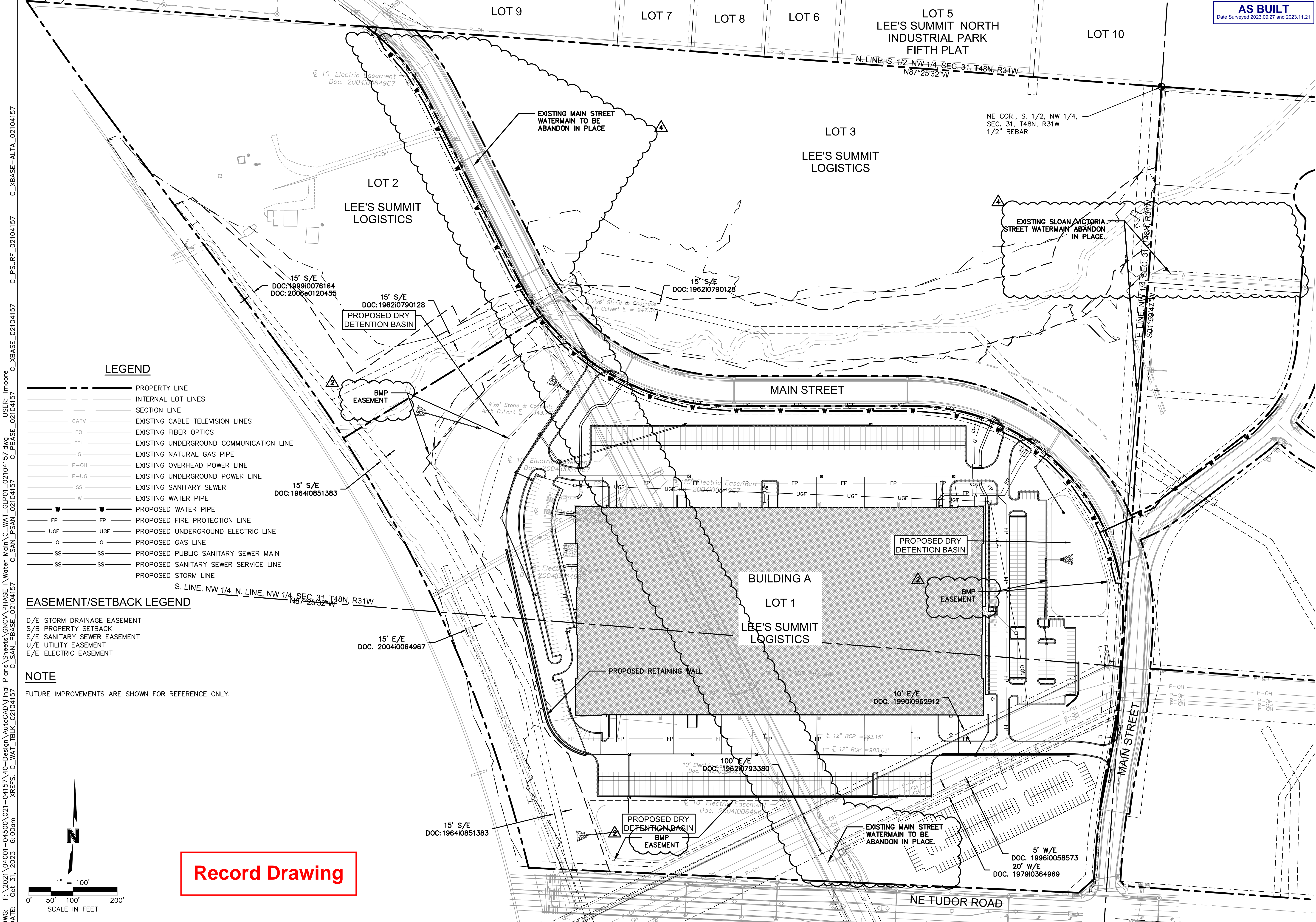
MISSOURI
STATE OF MISSOURI
MITCHELL ALAN PLEAK
CIVIL ENGINEER
PE-2009016764
6-18-24

BY
REV. NO. DATE REVISIONS DESCRIPTION
2 01.07.2022 CITY COMMENTS
3 02.13.2022 CITY COMMENTS
4 03.03.2022 CITY COMMENTS (GATE VALVE ADD.)
5 06.08.2022 CITY COMMENTS
2021

TITLE SHEET
PUBLIC WATER MAIN EXTENSION PLANS
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
FIRST PLAT, LEE'S SUMMIT LOGISTICS
LEE'S SUMMIT, MO

drawn by: CJS
checked by: LWM
approved by: MAP
QA/QC by: MAP
project no.: 021-04157
drawing no.: C_WAT_TTL01_02104157
date: 10/01/2021

SHEET
WM1.00



LEGEND

- PROPERTY LINE
- INTERNAL LOT LINES
- SECTION LINE
- CATV EXISTING CABLE TELEVISION LINES
- FO EXISTING FIBER OPTICS
- TEL EXISTING UNDERGROUND COMMUNICATION LINE
- G EXISTING NATURAL GAS PIPE
- P-OH EXISTING OVERHEAD POWER LINE
- P-UG EXISTING UNDERGROUND POWER LINE
- SS EXISTING SANITARY SEWER
- W EXISTING WATER PIPE
- PROPOSED WATER PIPE
- FP PROPOSED FIRE PROTECTION LINE
- UGE PROPOSED UNDERGROUND ELECTRIC LINE
- G PROPOSED GAS LINE
- SS PROPOSED PUBLIC SANITARY SEWER MAIN
- SS PROPOSED SANITARY SEWER SERVICE LINE
- PROPOSED STORM LINE

EASEMENT/SETBACK LEGEND

- D/E STORM DRAINAGE EASEMENT
- S/B PROPERTY SETBACK
- S/E SANITARY SEWER EASEMENT
- U/E UTILITY EASEMENT
- E/E ELECTRIC EASEMENT

NOTE

FUTURE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY.

Record Drawing

AS BUILT
Date Surveyed 2023.09.27 and 2023.11.21

olsson

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Missouri Certificate of Authority #001692
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4760
TEL 913.381.1170 www.olsson.com

STATE OF MISSOURI
MITCHELL ALAN PLEAK
Professional Engineer
NUMBER PE-2009016764
6-18-24

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	01.07.2022	CITY COMMENTS	
2	02.13.2022	CITY COMMENTS	
3	03.03.2022	CITY COMMENTS	
4	06.08.2022	CITY COMMENTS (GATE VALVE ADD.)	
5			

REVISIONS

GENERAL LAYOUT PLAN
PUBLIC WATER MAIN EXTENSION PLANS

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
FIRST PLAT, LEE'S SUMMIT LOGISTICS

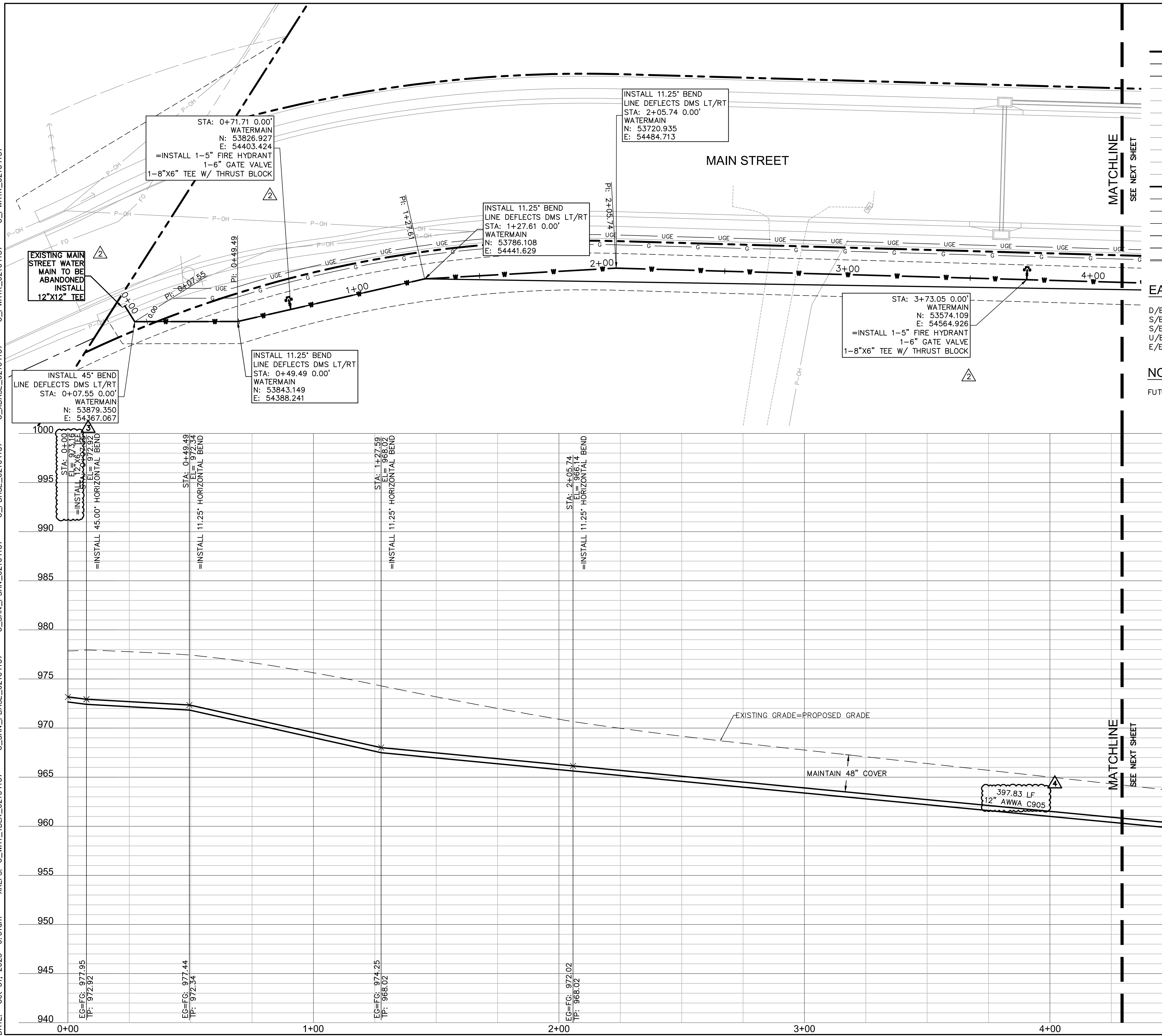
2021

LEE'S SUMMIT, MO

drawn by: CJS
checked by: LWM
approved by: MAP
QA/QC by: MAP
project no.: 021-04157
drawing no.: ncc_WAT_GL_P01_02104157
date: 10/01/2021

SHEET
WM2.00

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Record Drawing

LEGEND

AS BUILT
Date Surveyed 2023.09.27 and 2023.11.21

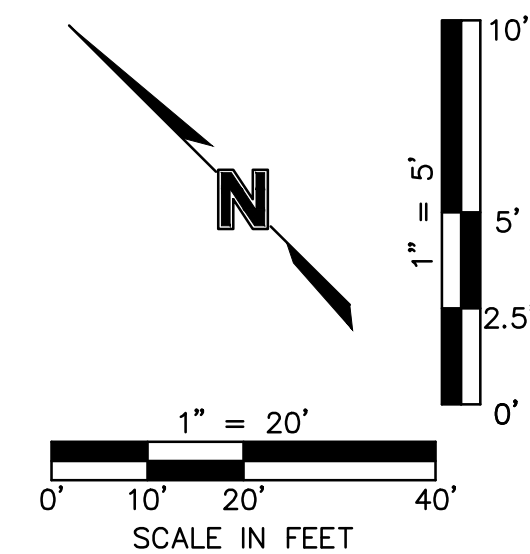
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|------------------------------|-------|---|
| _____ | _____ | PROPERTY LINE |
| _____ | _____ | INTERNAL LOT LINES |
| _____ | _____ | SECTION LINE |
| _____ CATV _____ | | EXISTING CABLE TELEVISION LINES |
| _____ FO _____ | | EXISTING FIBER OPTICS |
| _____ TEL _____ | | EXISTING UNDERGROUND COMMUNICATION LINE |
| _____ G _____ | | EXISTING NATURAL GAS PIPE |
| _____ P-OH _____ | | EXISTING OVERHEAD POWER LINE |
| _____ P-UG _____ | | EXISTING UNDERGROUND POWER LINE |
| _____ SS _____ | | EXISTING SANITARY SEWER |
| _____ W _____ | | EXISTING WATER PIPE |
| _____ W _____ W _____ | | PROPOSED WATER PIPE |
| _____ FP _____ FP _____ | | PROPOSED FIRE PROTECTION LINE |
| _____ UGE _____ UGE _____ | | PROPOSED UNDERGROUND ELECTRIC LINE |
| _____ G _____ G _____ | | PROPOSED GAS LINE |
| _____ SS _____ SS _____ | | PROPOSED PUBLIC SANITARY SEWER MAIN |
| _____ SS _____ SS _____ | | PROPOSED SANITARY SEWER SERVICE LINE |
| ===== | | PROPOSED STORM LINE |

EASEMENT/SETBACK LEGEND

D/E STORM DRAINAGE EASEMENT
S/B PROPERTY SETBACK
S/E SANITARY SEWER EASEMENT
U/E UTILITY EASEMENT
E/E ELECTRIC EASEMENT


NOTE

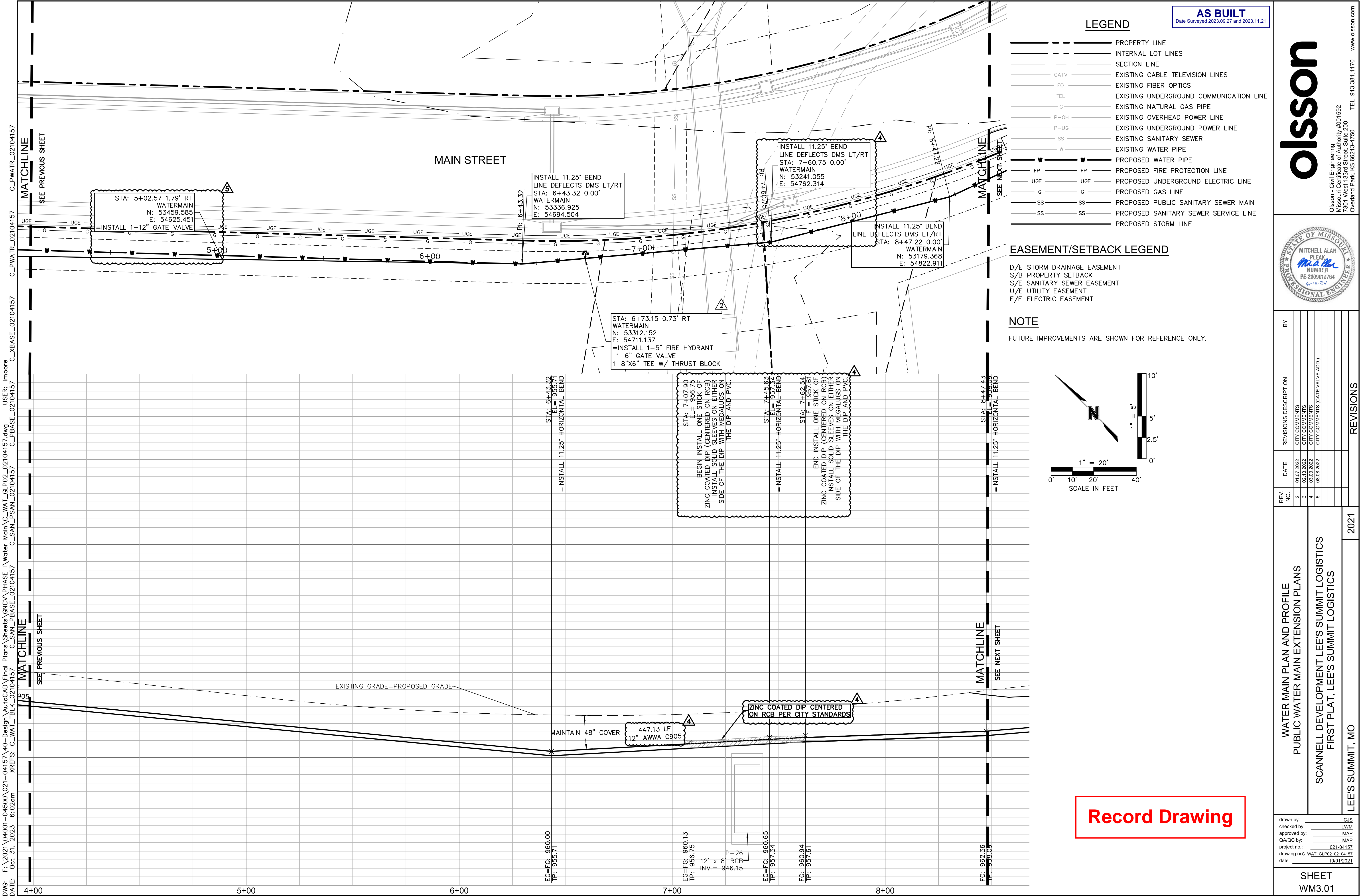
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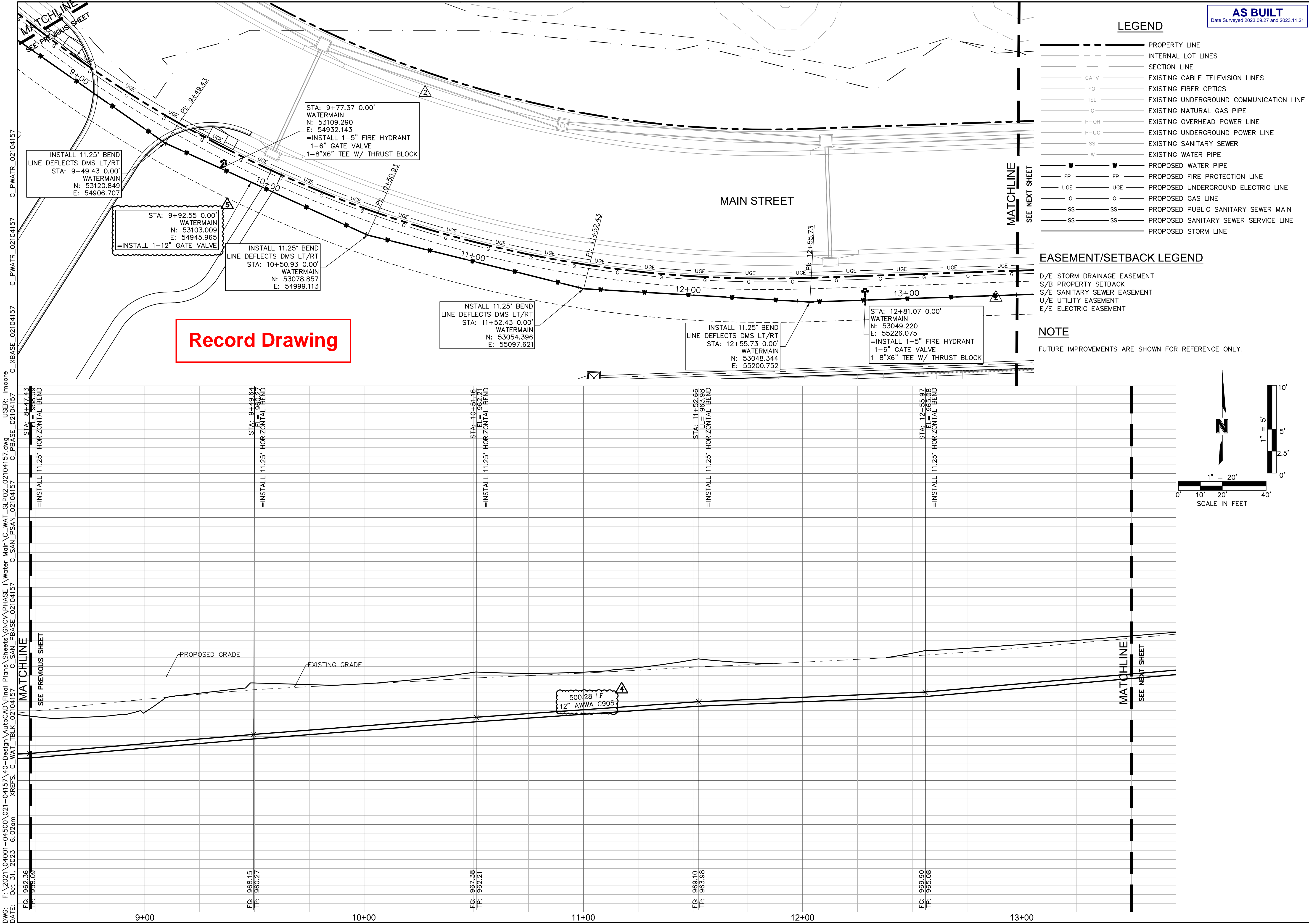


MATCHLINE — — — — —
SEE NEXT SHEET

MATCHLINE —
SEE NEXT SHEET

<div style="text-align: center;"> <h1>olsson</h1> <p>Olsson - Civil Engineering Missouri Certificate of Authority #001592 7301 West 133rd Street, Suite 200 Overland Park, KS 66213-4750</p> <p>TEL 913.381.1170 www.olson.com</p> </div>						
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			3	02.13.2022	CITY COMMENTS	
			4	03.03.2022	CITY COMMENTS	
			5	08.08.2022	CITY COMMENTS (GATE VALVE ADD.)	
		REVISIONS				
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p style="text-align: center;">WATER MAIN PLAN AND PROFILE PUBLIC WATER MAIN EXTENSION PLANS</p> <p style="text-align: center;">SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS FIRST PLAT, LEE'S SUMMIT LOGISTICS</p> <p style="text-align: center;">LEE'S SUMMIT, MO</p> </div> <div style="width: 35%; text-align: right;"> <p>2021</p> </div> </div>						
<p>drawn by: _____ CJS</p> <p>checked by: _____ LWM</p> <p>approved by: _____ MAP</p> <p>QA/QC by: _____ MAP</p> <p>project no.: 021-04157</p> <p>drawing no. <u>WAT_GLP02_02104157</u></p> <p>date: 10/01/2021</p>						
<p>SHEET</p> <p>WM3.00</p>						





AS BUILT

Date Surveyed 2023.09.27 and 2023.11.21

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Overland Park, KS 66213-4760
TEL 913.381.1170 www.olsson.com

STATE OF MISSOURI
MITCHELL ALAN PLEAK
PE-2009016764
6-18-24
PROFESSIONAL ENGINEER

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
2	01.07.2022	CITY COMMENTS	
3	02.13.2022	CITY COMMENTS	
4	03.03.2022	CITY COMMENTS	
5	06.08.2022	CITY COMMENTS (GATE VALVE ADD.)	

WATER MAIN PLAN AND PROFILE	2021
PUBLIC WATER MAIN EXTENSION PLANS	
SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS	
FIRST PLAT, LEE'S SUMMIT LOGISTICS	
LEE'S SUMMIT, MO	

drawn by: CJS

checked by: LWM

approved by: MAP

QA/QC by: MAP

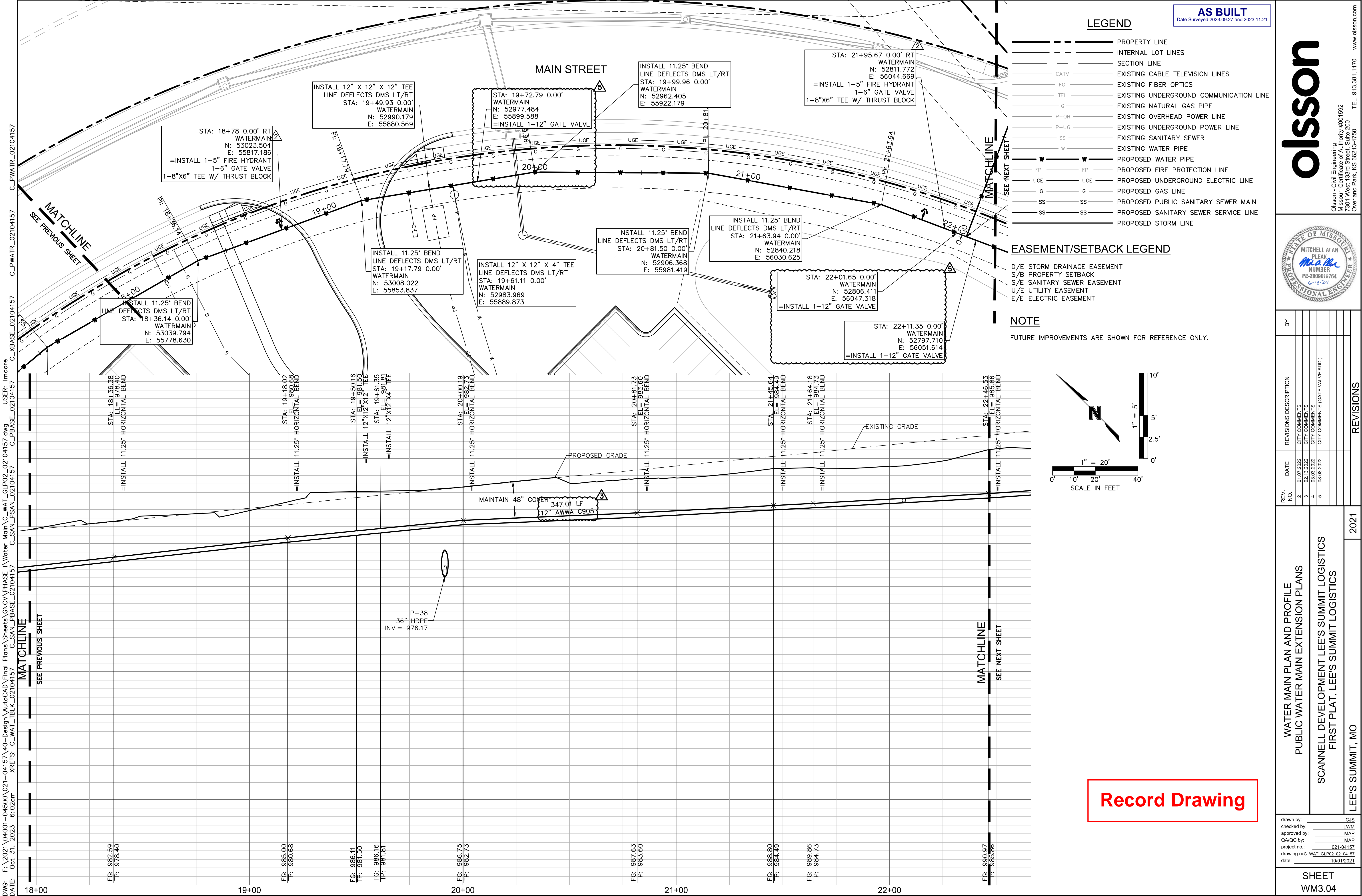
project no.: 021-04157

drawing no: WAT_GLP02_02104157

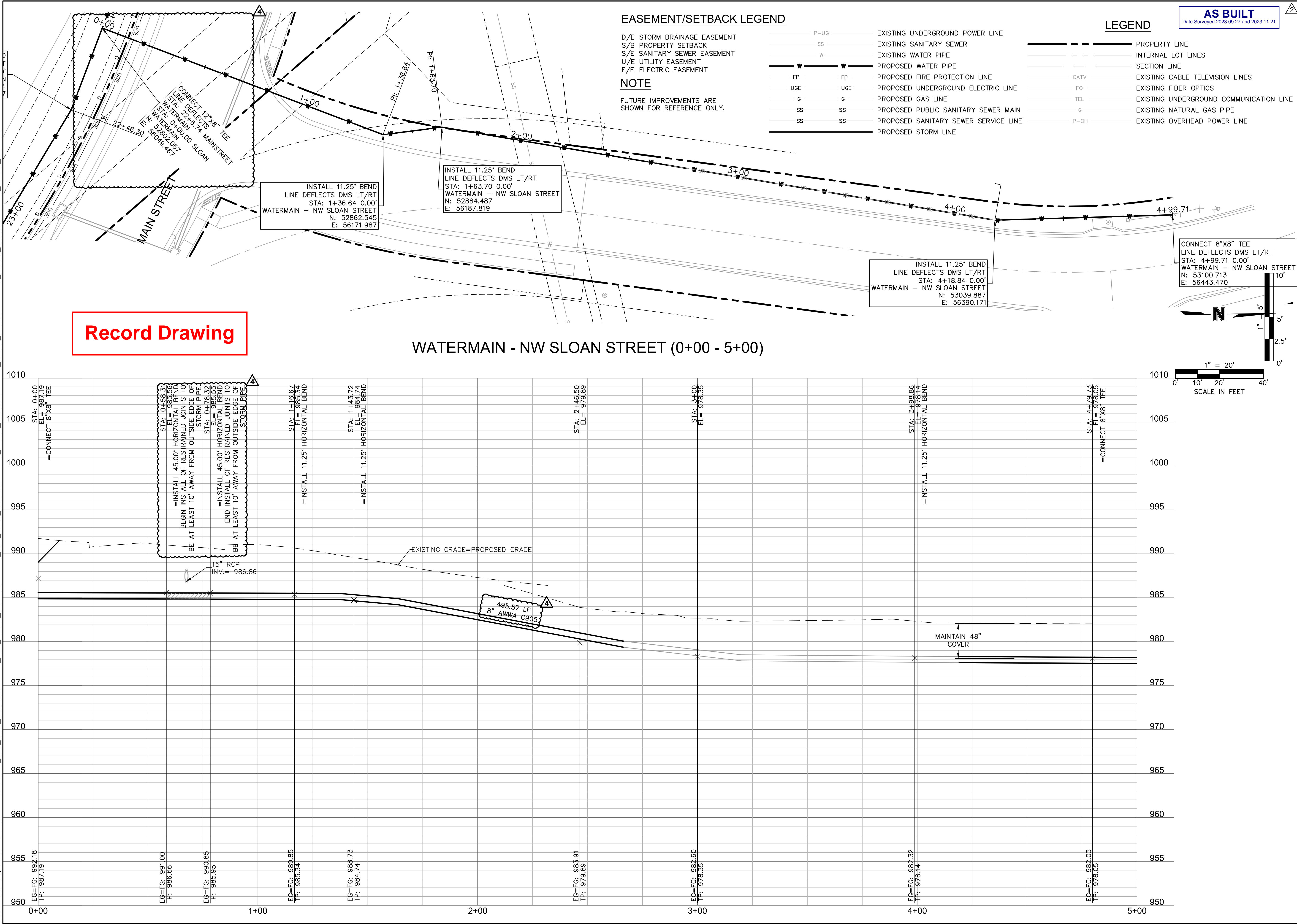
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AS BUILT
Date Surveyed 2023.09.27 and 2023.11.21

EASEMENT/SETBACK LEGEND
D/E STORM DRAINAGE EASEMENT
S/B PROPERTY SETBACK
S/E SANITARY SEWER EASEMENT
U/E UTILITY EASEMENT
E/E ELECTRIC EASEMENT
NOTE
FUTURE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY.

LEGEND
P-UG EXISTING UNDERGROUND POWER LINE
SS EXISTING SANITARY SEWER
W EXISTING WATER PIPE
W PROPOSED WATER PIPE
FP PROPOSED FIRE PROTECTION LINE
UGE PROPOSED UNDERGROUND ELECTRIC LINE
G PROPOSED GAS LINE
SS PROPOSED PUBLIC SANITARY SEWER MAIN
SS PROPOSED SANITARY SEWER SERVICE LINE
PROPOSED STORM LINE
PROPERTY LINE
INTERNAL LOT LINES
SECTION LINE
EXISTING CABLE TELEVISION LINES
EXISTING FIBER OPTICS
EXISTING UNDERGROUND COMMUNICATION LINE
EXISTING NATURAL GAS PIPE
EXISTING OVERHEAD POWER LINE

Record Drawing

WATERMAIN - NW SLOAN STREET (0+00 - 5+00)

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION
1	01.07.2022	CITY COMMENTS
2	02.13.2022	CITY COMMENTS
3	03.03.2022	CITY COMMENTS (GATE VALVE ADD.)
4	06.08.2022	
5		

WATER MAIN PLAN AND PROFILE
PUBLIC WATER MAIN EXTENSION PLANS

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
FIRST PLAT, LEE'S SUMMIT LOGISTICS

LEE'S SUMMIT, MO

drawn by: CJS
checked by: LWM
approved by: MAP
QA/QC by: MAP
project no.: 021-04157
drawing no.: WAT_GLP02_02104157
date: 10/01/2021

SHEET
WM3.06

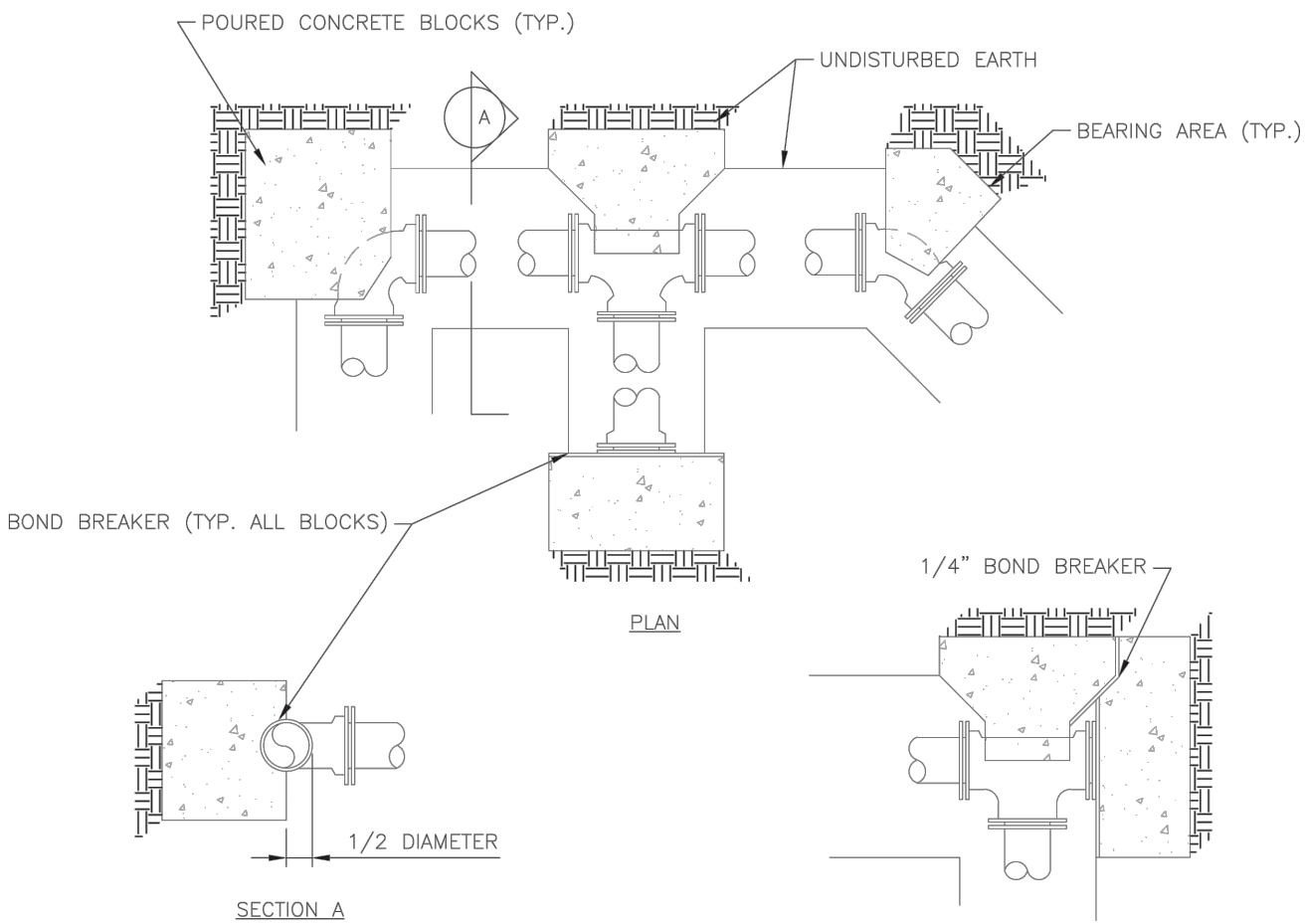
STATE OF MISSOURI
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MITCHELL ALAN PLEAK
NUMBER
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TEL 913.381.1170 www.olsson.com

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USER: Imoore

REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)					
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

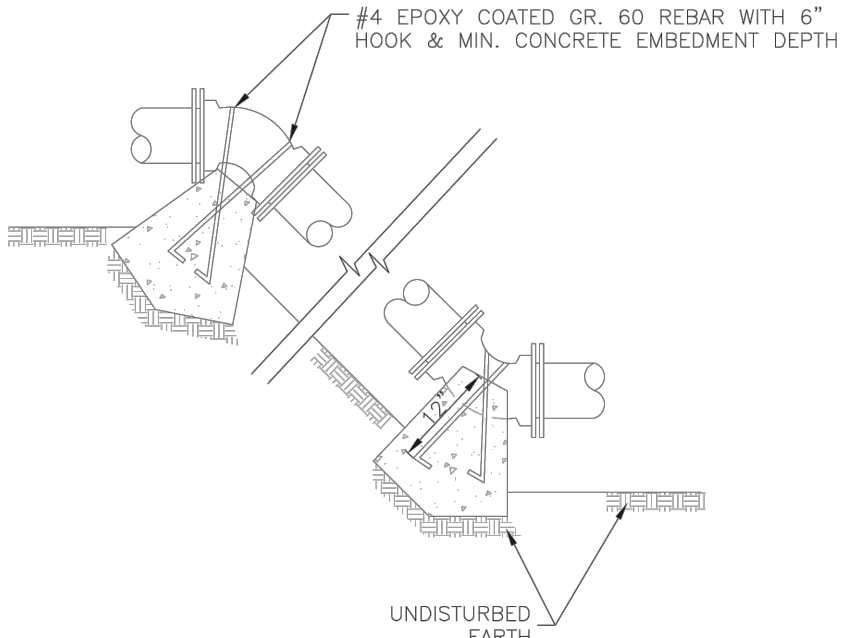


- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



Date: 01/2016
Drawn By: JN
Checked By: DL
WAT-1

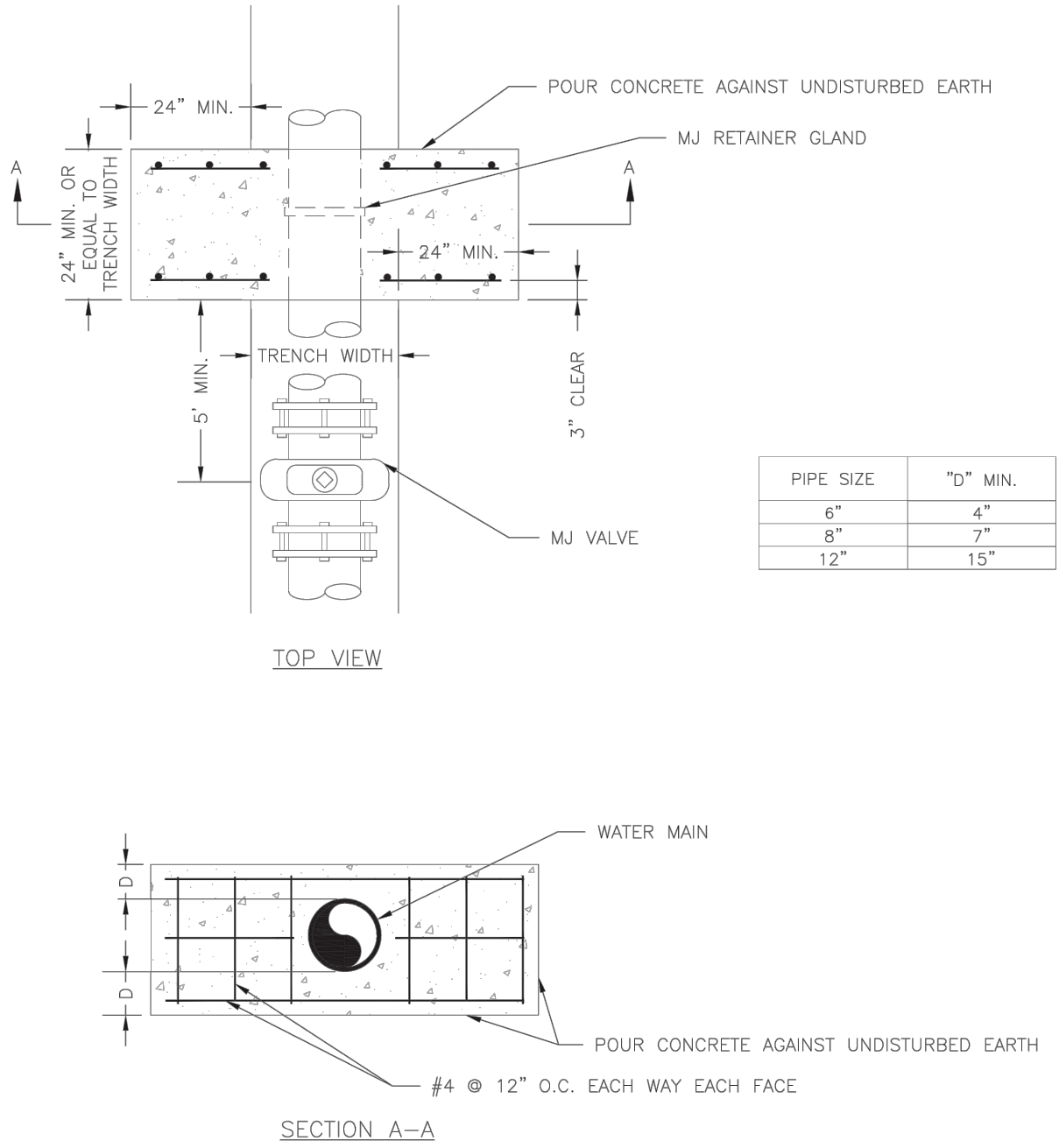
REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)					
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
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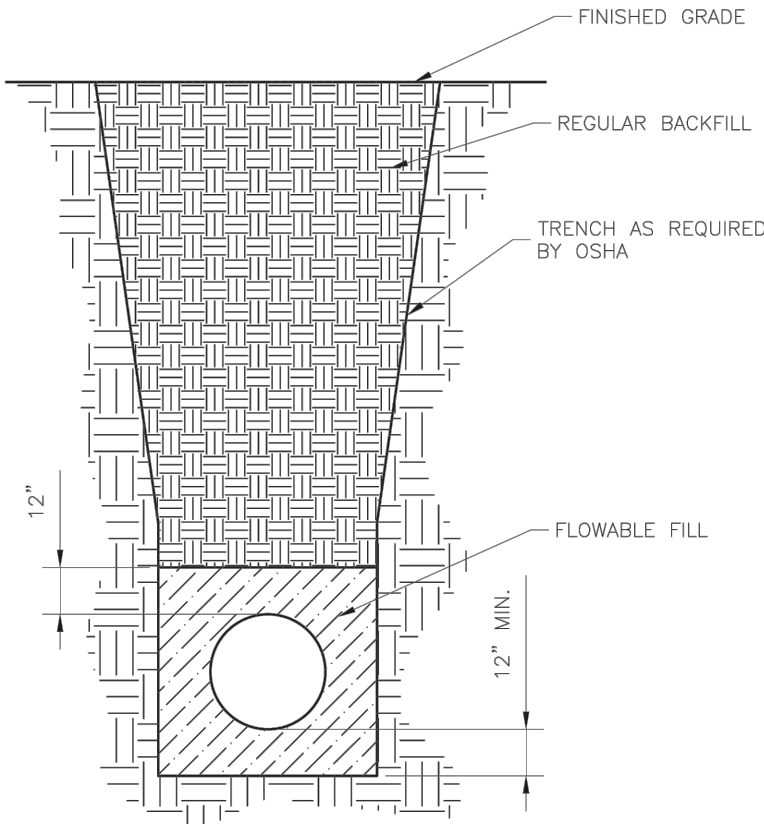
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Drawn By: JN
Checked By: DL
WAT-2



NOTE:
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"



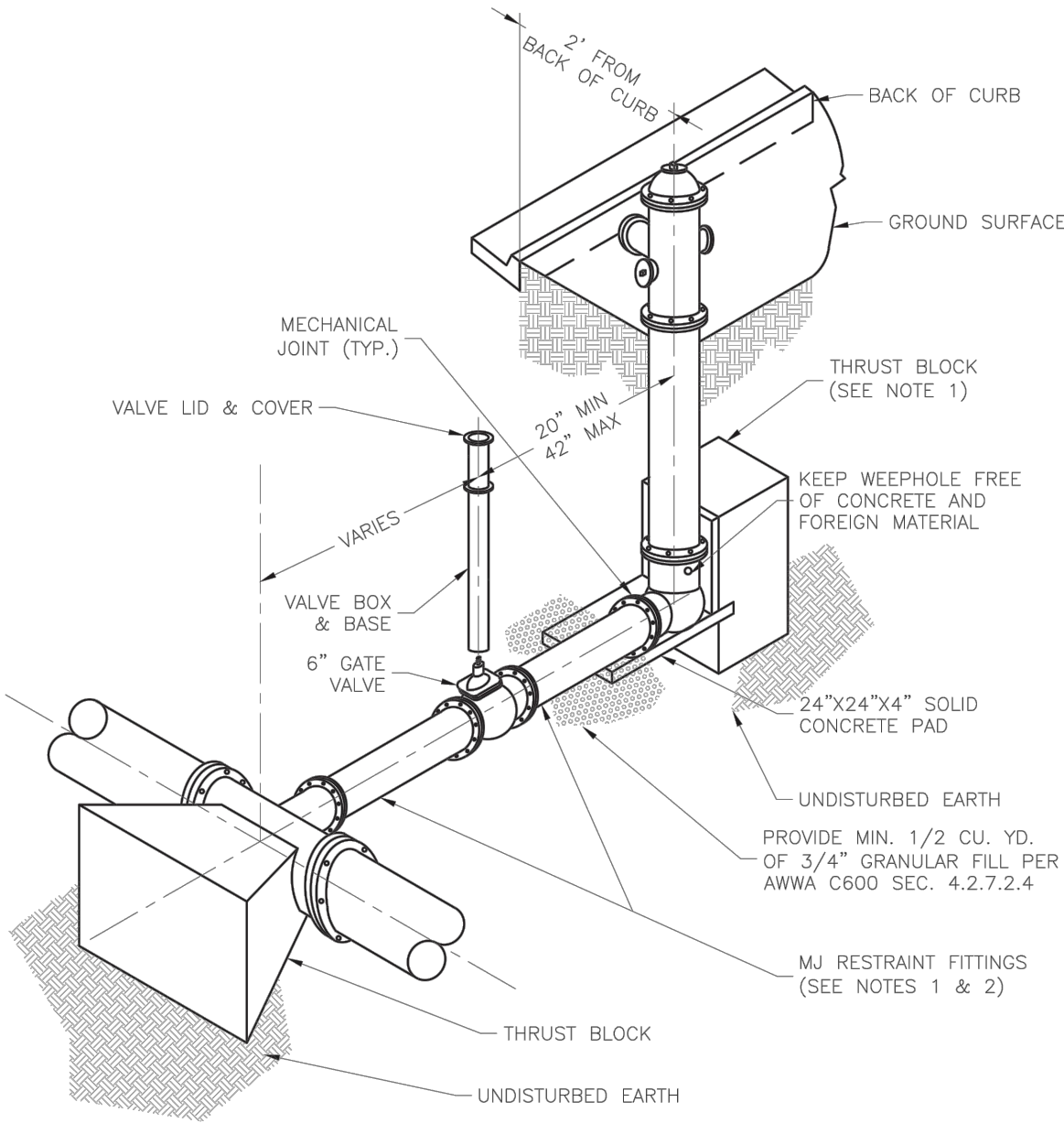
Date: 01/2016
Drawn By: JN
Checked By: DL
WAT-3



- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".



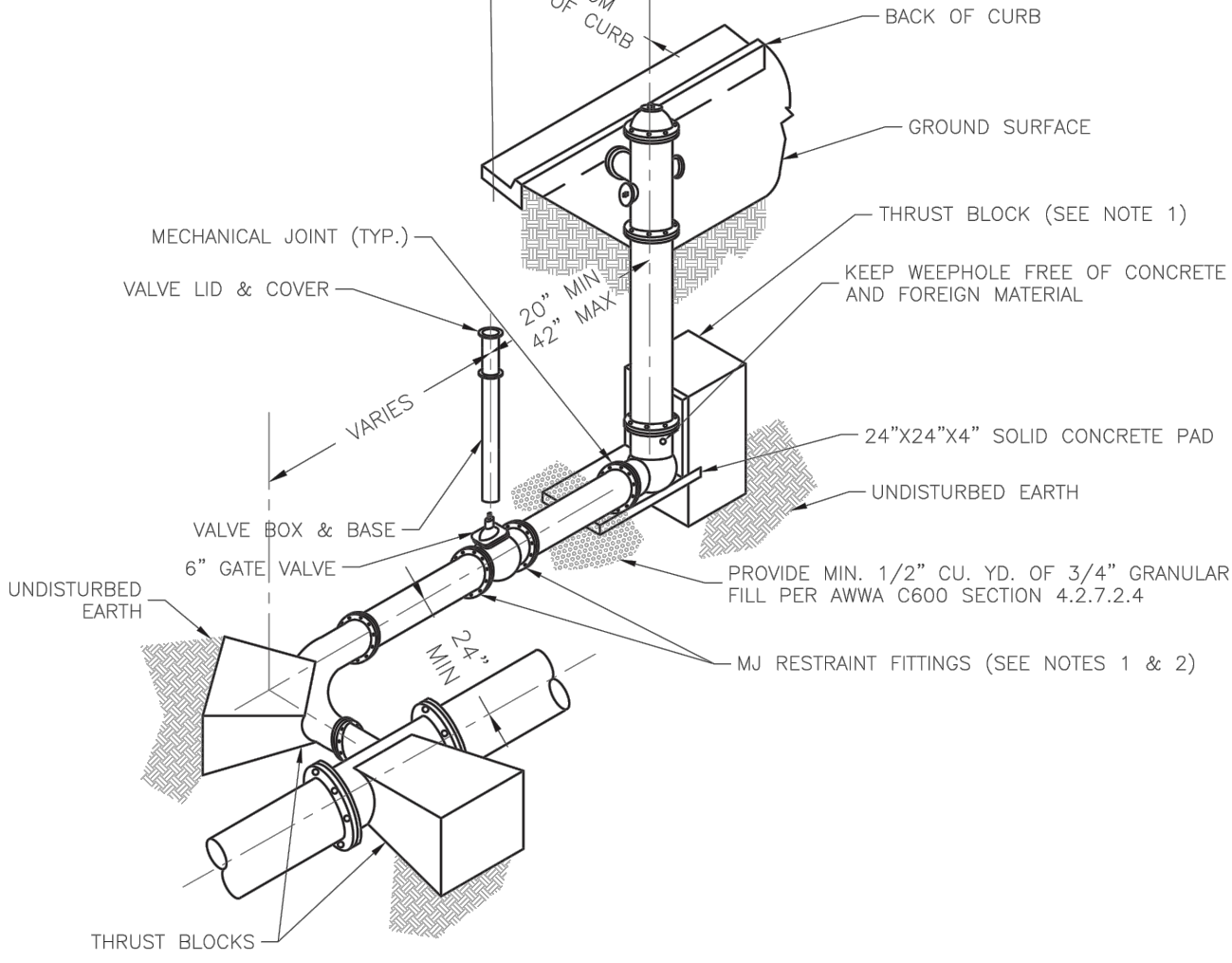
Date: 01/2016
Drawn By: JN
Checked By: DL
WAT-6



- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.



Date: 01/2016
Drawn By: JN
Checked By: DL
WAT-7



- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
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 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.



Date: 01/2016
Drawn By: JN
Checked By: DL
WAT-8

Record Drawing

DETAILS SHEET
PUBLIC WATER MAIN EXTENSION PLANS

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
FIRST PLAT, LEE'S SUMMIT LOGISTICS

LEE'S SUMMIT, MO

2021

drawn by: CJS
checked by: LWM
approved by: MAP
QA/QC by: MAP
project no.: 021-04157
drawing no.: C_WAT_TTL01_02104157
date: 10/01/2021

SHEET
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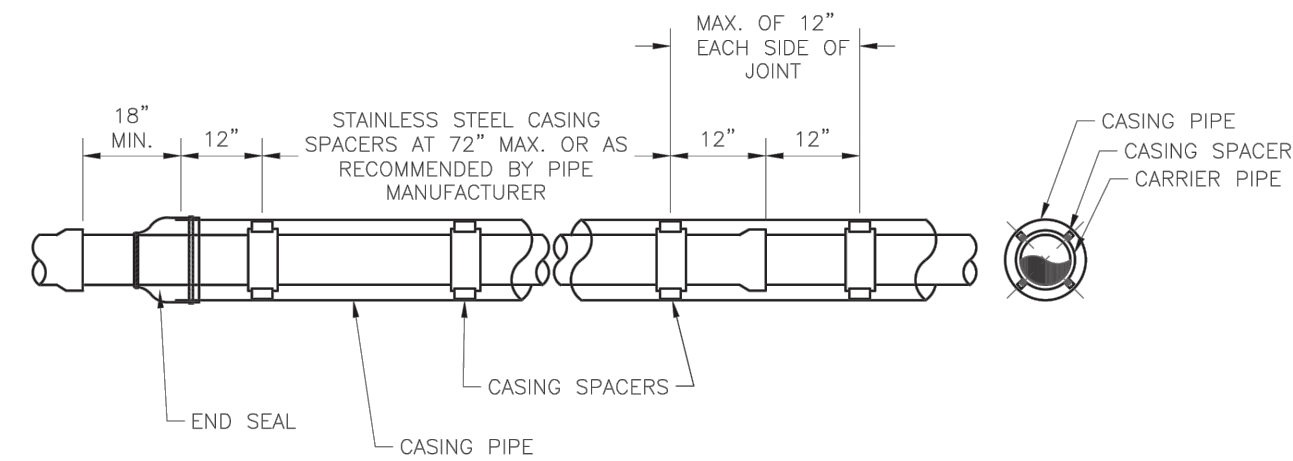
NOT AS BUILT



REVISIONS		BY	REVISIONS DESCRIPTION
REV. NO.	DATE		
2	01.07.2022		CITY COMMENTS
3	02.13.2022		CITY COMMENTS
4	03.03.2022		CITY COMMENTS (GATE VALVE ADD.)
5	06.08.2022		CITY COMMENTS (GATE VALVE ADD.)

olsson

Olsson - Civil Engineering
Missouri Certificate of Authority #001692
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4760
TEL 913.381.1170 www.olsson.com



NOTES:

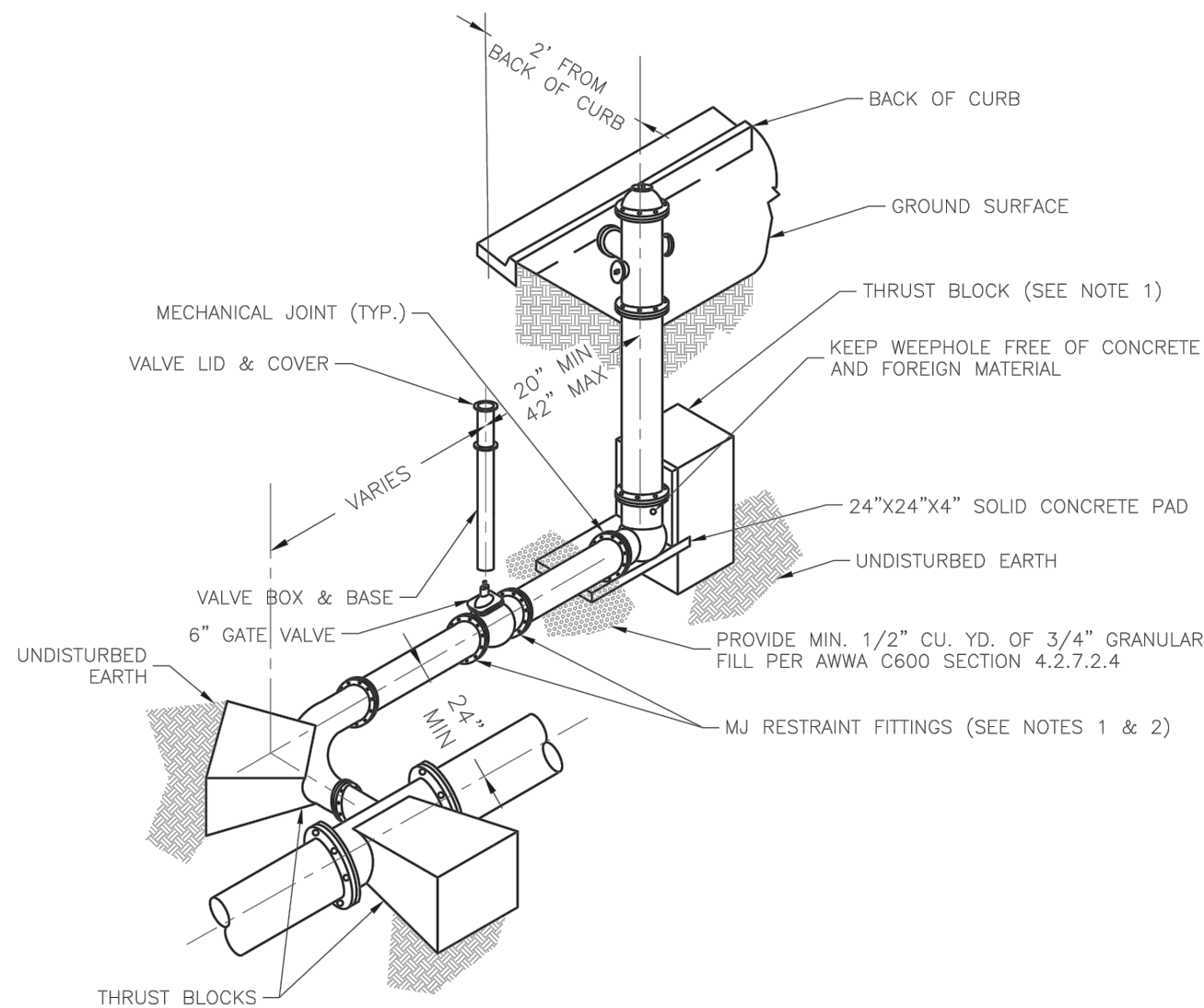
1. REFER TO SPECIFICATION SECTION 3900 FOR ADDITIONAL INFORMATION.
2. LENGTH, DIAMETER, AND WALL THICKNESS TO BE SHOWN ON CONSTRUCTION PLANS.



LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64061

WATER CASING PIPE DETAIL

Date: 01/2016
Drawn By: JN
Checked By: DL
WAT-5



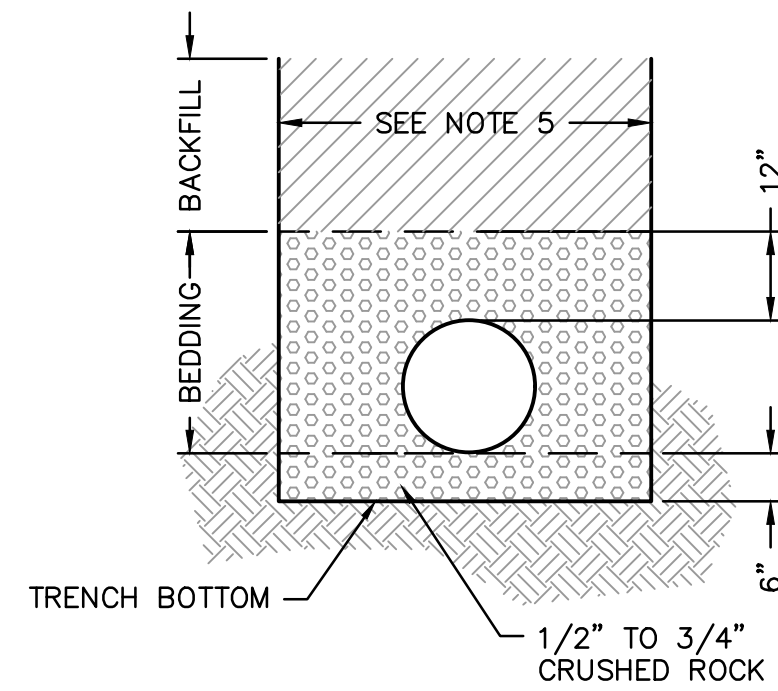
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1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
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3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 4" ABOVE FINISHED GRADE.
5. FIRE STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE.
6. BUT NOT MORE THAN 12" FROM EDGE OF PAVEMENT. THE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
7. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.



LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 01/2016
Drawn By: JN
Checked By: DL
WAT-8



TYPICAL TRENCH SECTION

NOTES:

1. BELL HOLES SHALL BE DUG SO THAT NO PART OF THE BELL SHALL BE IN CONTACT WITH THE TRENCH BOTTOM.
2. BEDDING AGGREGATE MATERIAL SHALL BE PER SECTION 6900 AND 2102 OF THE CITY DESIGN AND CONSTRUCTION MANUAL. BEDDING AGGREGATE SHALL BE PLACED FROM A LEVEL 6 INCHES BELOW THE BOTTOM OF THE PIPE TO A LEVEL 12 INCHES ABOVE THE TOP OF THE PIPE AS SHOWN ABOVE.
3. BACKFILL MATERIAL AND PLACEMENT SHALL BE PER SECTION 6900 AND 2102 OF THE CITY DESIGN AND CONSTRUCTION MANUAL.
4. TRENCHING SHALL BE IN ACCORDANCE WITH CURRENT OSHA REGULATIONS. SLOPES MUST NOT EXTEND BELOW TOP OF BEDDING.
5. MINIMUM AND MAXIMUM TRENCH WIDTHS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATION AS APPROVED ON ENGINEERING PLANS.

UNDERGROUND PIPE INSTALLATION FOR WATER PIPING

NOT TO SCALE

Record Drawing

NOT AS BUILT

DETAILS SHEET
PUBLIC WATER MAIN EXTENSION PLANS

SCANNELL DEVELOPMENT LEE'S SUMMIT LOGISTICS
FIRST PLAT, LEE'S SUMMIT LOGISTICS

LEE'S SUMMIT, MO

2021

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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SHEET
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