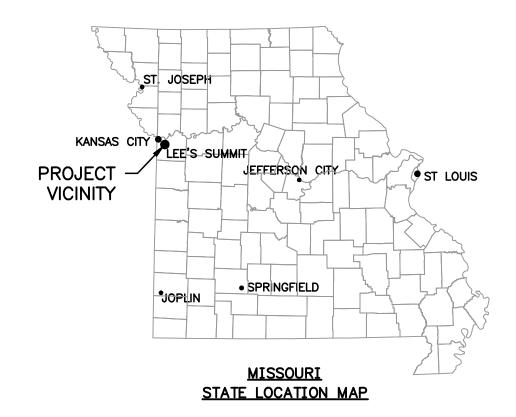
SUMMIT VIEW FARMS 4TH PLAT LOTS 75-120 AND TRACT D

WATER LINE PLANS LEE'S SUMMIT, JACKSON COUNTY, MISSOURI SECTION 26, TOWNSHIP 47 N, RANGE 32W LAMP RYNEARSON NO. 0318050.02



OWNER CONTACT BILL KENNEY SUMMIT VIEW FARMS DEVELOPMENT GROUP, LLC P.O. BOX 291 LEE'S SUMMIT, MO 64063 billkenney9@gmail.com (816) 838-0552

> **CONSULTANT CONTACT** DAN MCGHEE LAMP RYNEARSON 9001 STATE LINE ROAD, SUITE 200 KANSAS CITY, MO 64114 Dan.McGhee@lamprynearson.com (816) 361-0440



UTILITIES		
ELECTRIC:	EVERGY	(816) 471-5275
GAS:	SPIRE ENERGY	(816) 756-5252
TELEPHONE:	AT&T	(816) 325-5607
CABLE:	SPECTRUM	(816) 358-8833
	GOOGLE	(415) 736-9962
WATER:	LEE'S SUMMIT WATER UTILITIES	(816) 969-1900



INDEX OF SHEETS

01	COVER	SHEET

GENERAL LAYOUT PLAN SHEET

WATER LINE PLAN AND PROFILE LINE 4-01 SHEET

WATER LINE PLAN AND PROFILE LINES 4-02 AND 4-03 SHEET

WATER LINE PROFILE LINES 4-04 AND 4-05 SHEET

WATER DETAILS SHEET



RECORD DRAWING

ESTIMATED SUMMARY OF QUANTITIES

ITEM DESCRIPTION

1 6" WATER MAIN (PVC AWWA C900)

2 8" WATER MAIN (PVC AWWA C900)

4 6" 11.25, 22.5, OR 45 DEGREE BEND

5 8" 11.25, 22.5, OR 45 DEGREE BEND

3 8" X 8" TEE (DUCTILE IRON)

6 THRUST BLOCKS

7 8" GATE VALVE

8 8"X6" REDUCER

9 6" RESTRAINED CAP

10 8" RESTRAINED CAP

11 FIRE HYDRANT ASSEMBLY

NO.

THE INFORMATION PROVIDED ON THIS DRAWING CONFORMS TO CONSTRUCTION RECORDS; IT IS NOT INTENDED FOR CONSTRUCTION, IMPLEMENTATION OR RECORDING PURPOSES; AND IT IS SOLELY BASED ON INFORMATION OBTAINED BY LAMP RYNEARSON.

ONLY WATER VALVES AND FIRE HYDRANT ASSEMBLIES WERE AS-BUILT. THE ACTUAL LOCATION OF THE WATER LINE, HORIZONTALLY AND VERTICALLY, WERE NOT FIELD VERIFIED.

ESTIMATED

QUANTITY UNIT

414 LF

4 | EA

7 | EA 25 | EA

57 EA

6 EA

3 EA

1 EA

2 EA

6 EA

2,365 LF

DATE: 01-06-2022

CERTIFIED BY: MARK DANIEL MCGHEE JR

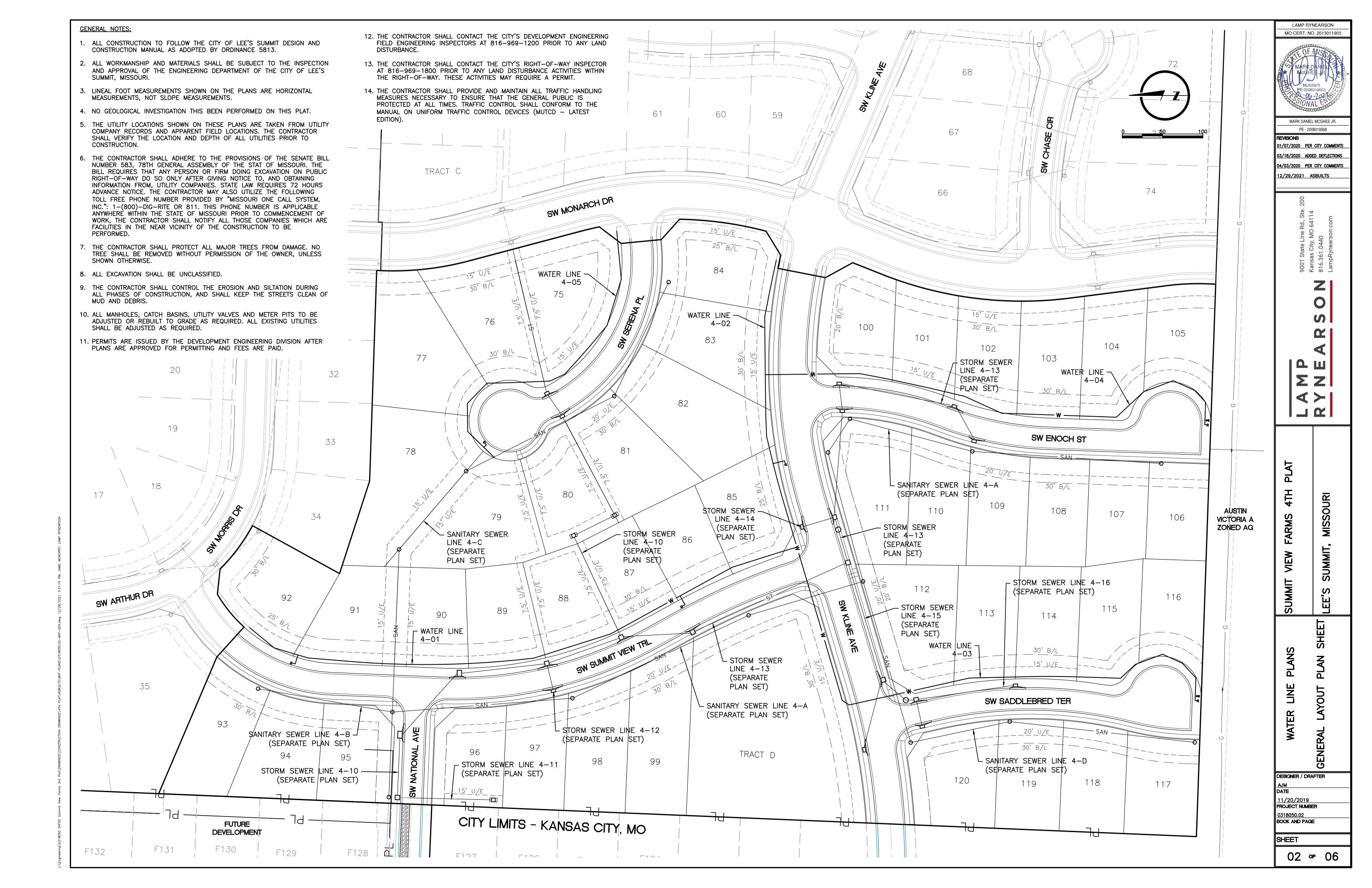
TITLE: SENIOR PROJECT MANAGER

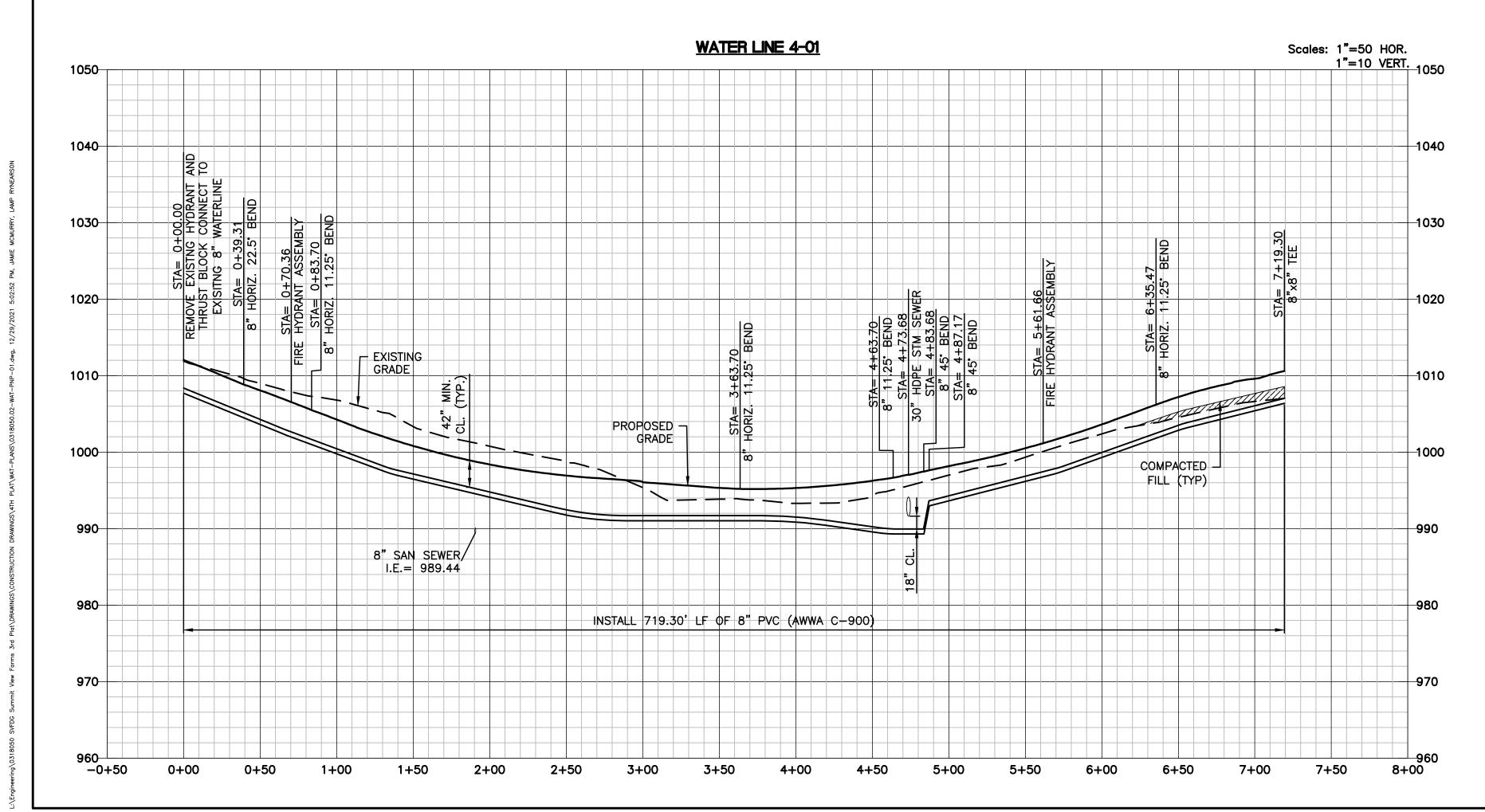
FIRM: LAMP RYNEARSON

DATE: <u>01-06-2022</u>

LAMP RYNEARSON 816.361.0440

9001 State Line Rd., Ste. 200 Kansas City, MO 64114 LampRynearson.com





WATER MAIN NOTES:

- WATER MAINS AND SANITARY SEWER MAINS (INCLUDING STRUCTURES) SHALL HAVE AT LEAST 10-FT OF HORIZONTAL SEPARATION FROM EDGE OF WATER PIPE TO EDGE OF SEWER PIPE OR SEWER STRUCTURE.
- 2. WATER MAINS AND SANITARY SEWERS SHALL HAVE AT LEAST 18-INCHES OF VERTICAL SEPARATION FROM EDGE OF PIPE TO EDGE OF PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE WATER MAIN JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER MAIN JOINTS.
- 3. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL HORIZONTAL FITTING, VERTICAL FITTING, AND FIRE HYDRANT ASSEMBLY LOCATIONS IN ACCORDANCE WITH CITY STANDARD DETAILS WAT—1, WAT—2, AND WAT—8.
- 4. COMPACTED FILL SHALL BE PLACED TO A MINIMUM 18" ABOVE THE TOP OF PIPE PRIOR TO INSTALLATION.

	ALIGNMENT TABLE 4-01			
Line #/Curve #	Length	Direction/Delta	BEGIN NORTHING/EASTING	END NORTHING/EASTING
L1	39.31	S39° 30′ 33.58″W	N=982468.69/E=2809167.09	N=982438.36/E=2809142.08
L2	24.40	S17° 00' 33.58"W	N=982438.36/E=2809142.08	N=982415.03/E=2809134.95
L3	20.00	S16° 00' 33.58"W	N=982415.03/E=2809134.95	N=982395.81/E=2809129.43
L4	60.00	S04° 45' 33.58"W	N=982395.81/E=2809129.43	N=982336.01/E=2809124.45
L5	20.00	S03° 45′ 33.58"W	N=982336.01/E=2809124.45	N=982316.06/E=2809123.14
L6	20.00	S02° 45′ 33.58"W	N=982316.06/E=2809123.14	N=982296.08/E=2809122.18
L7	20.00	S01° 45′ 33.58"W	N=982296.08/E=2809122.18	N=982276.09/E=2809121.57
L8	20.00	S00° 45′ 33.58"W	N=982276.09/E=2809121.57	N=982256.09/E=2809121.30
L9	20.00	S00° 14' 26.42"E	N=982256.09/E=2809121.30	N=982236.09/E=2809121.38
L10	20.00	S01° 14' 26.42"E	N=982236.09/E=2809121.38	N=982216.10/E=2809121.82
L11	20.00	S02° 14' 26.42"E	N=982216.10/E=2809121.82	N=982196.11/E=2809122.60
L12	20.00	S03° 14' 26.42"E	N=982196.11/E=2809122.60	N=982176.14/E=2809123.73
L13	20.00	S04° 14' 26.42"E	N=982176.14/E=2809123.73	N=982156.20/E=2809125.21
L14	20.00	S05° 14' 26.42"E	N=982156.20/E=2809125.21	N=982136.28/E=2809127.04
L15	20.00	S06° 14' 26.42"E	N=982136.28/E=2809127.04	N=982116.40/E=2809129.21
L16	100.00	S17° 29' 26.42"E	N=982116.40/E=2809129.21	N=982021.02/E=2809159.26
L17	171.77	S28° 44' 26.42"E	N=982021.02/E=2809159.26	N=981870.42/E=2809241.86
L18	63.83	S17° 29' 18.51"E	N=981870.42/E=2809241.86	N=981809.54/E=2809261.04
L19	20.00	S16° 30' 30.51"E	N=981809.54/E=2809261.04	N=981790.36/E=2809266.72

RECORD DRAWING

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DATE: 01-06-2022

CERTIFIED BY: MARK DANIEL MCGHEE, JR.

TITLE: SENIOR PROJECT MANAGER

FIRM: LAMP RYNEARSON

LAMP RYNEARSON

MO CERT. NO. 2013011903

MARK DANIEL MCGHEE R

NUMBER
PE-2008019568

MARK DANIEL MCGHEE JR.
PE - 2008019568

REVISIONS
01/07/2020 PER CITY COMMENTS

03/18/2020 ADDED DEFLECTIONS

04/03/2020 PER CITY COMMENTS

12/29/2021 ASBUILTS

(ansas City, MO 64114 316.361.0440 -ampRynearson.com

9001 State
Kansas City
816.361.04
LampRynes

LAMP RYNEARS

'S SUMMIT, MISSOURI

ER LINE PLAN AND PROFILE WATER LINE 4—01

DESIGNER / DRAFTER
AJM

DATE

11/20/2019

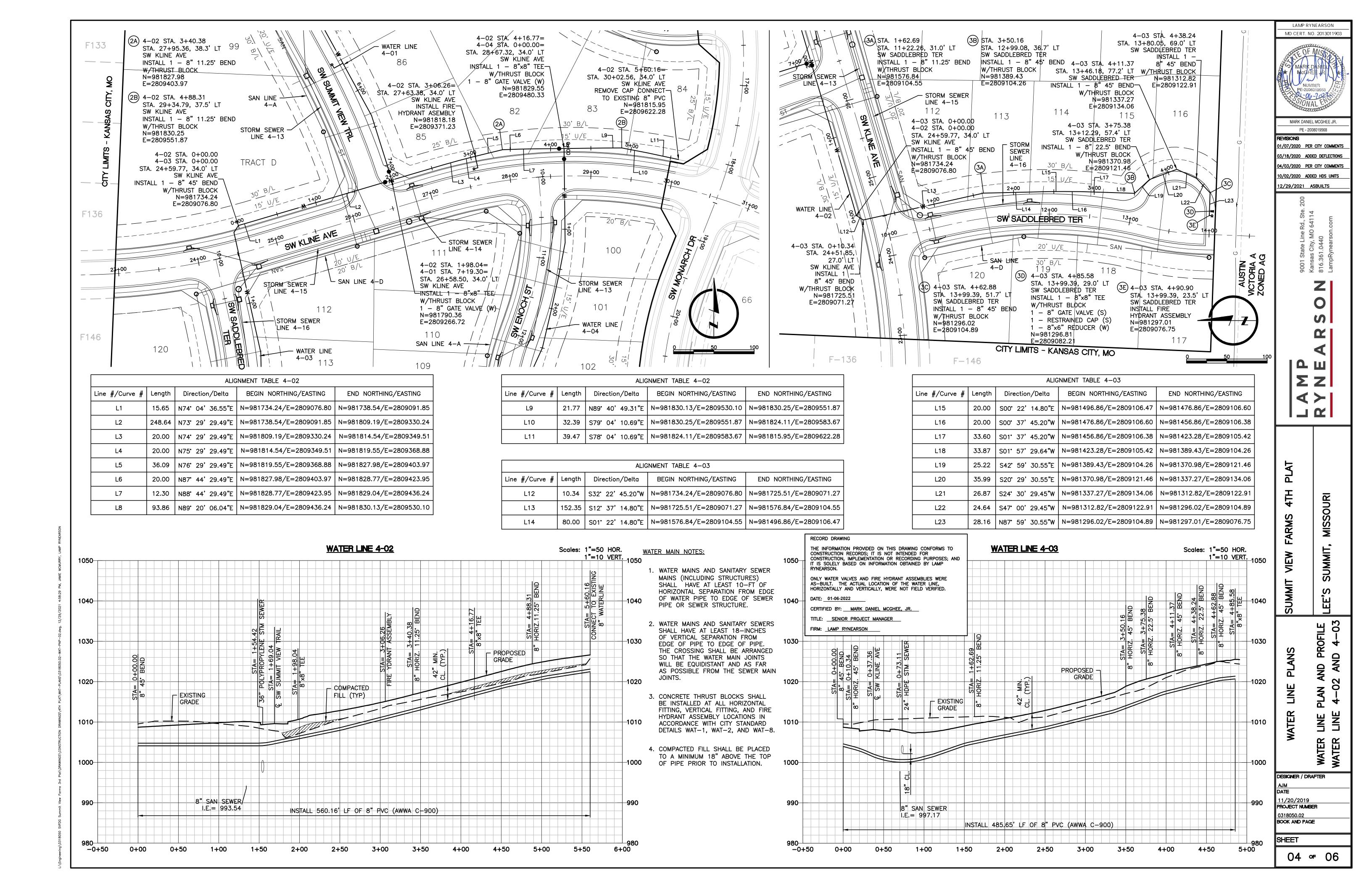
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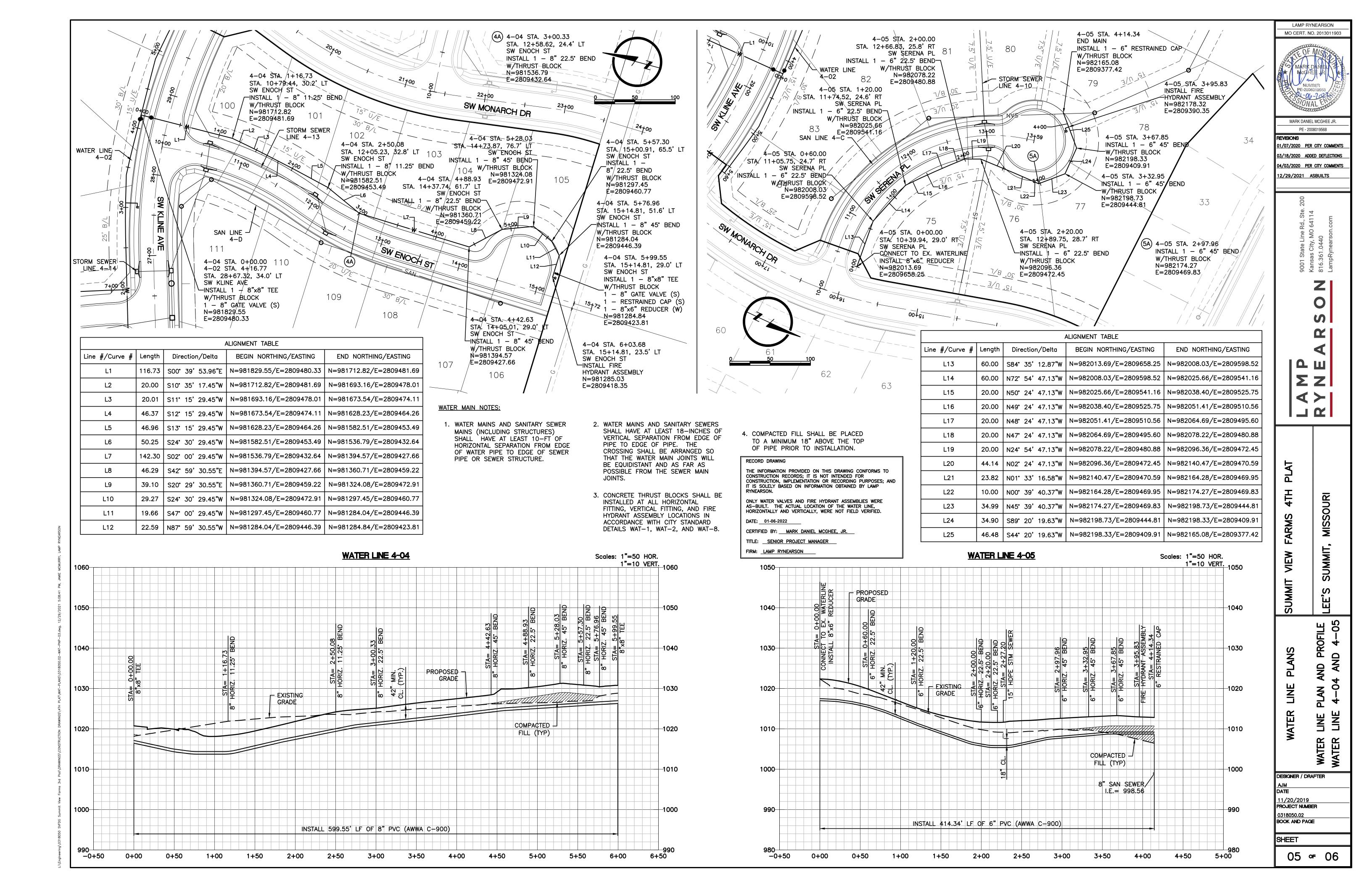
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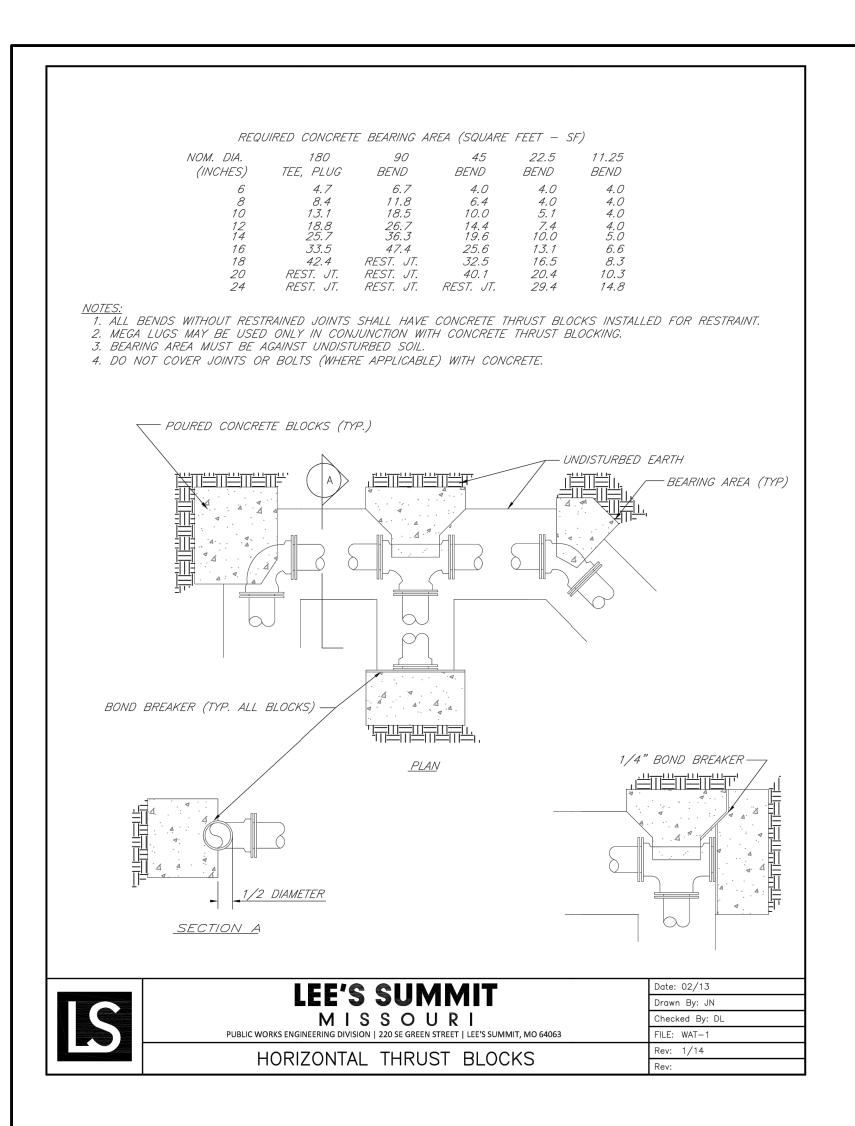
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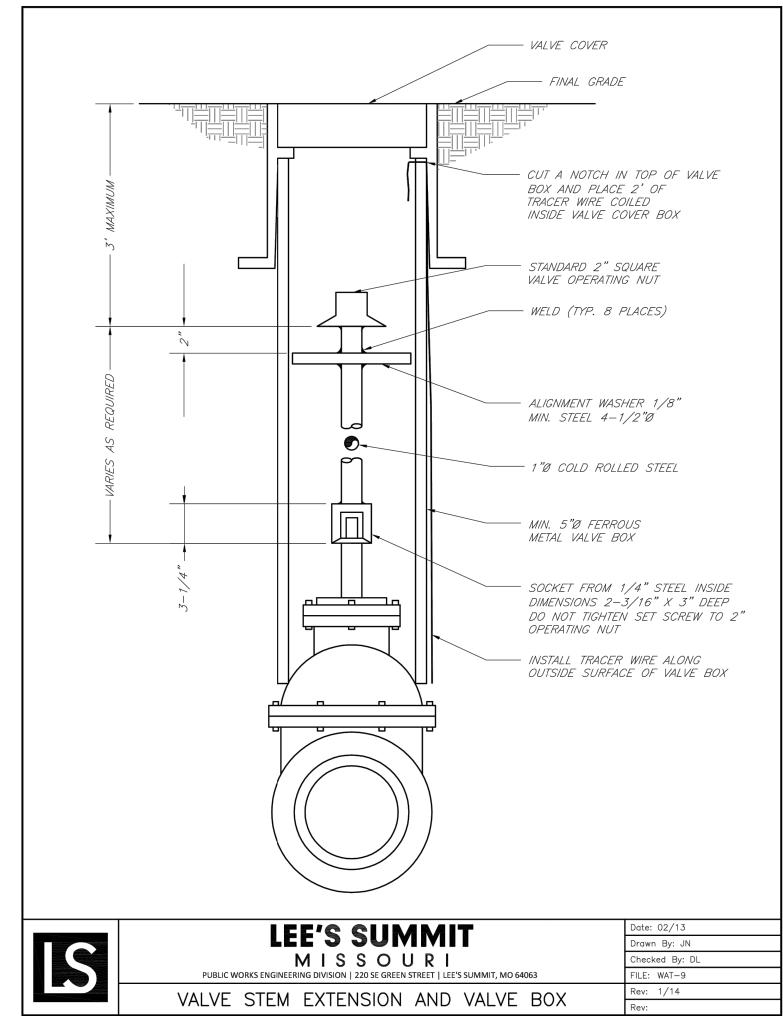
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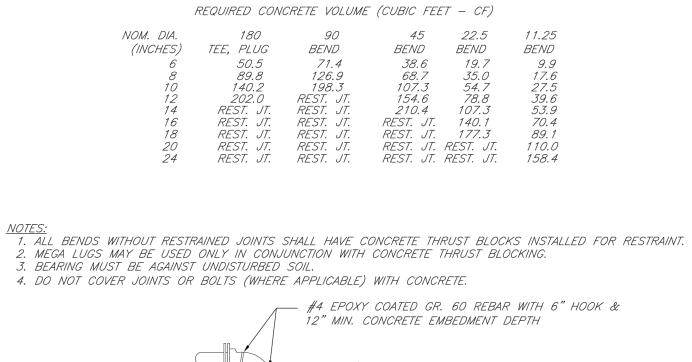
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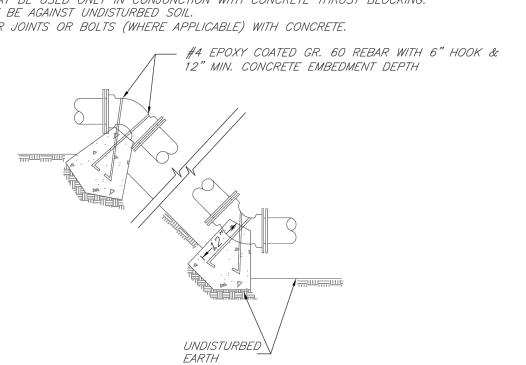




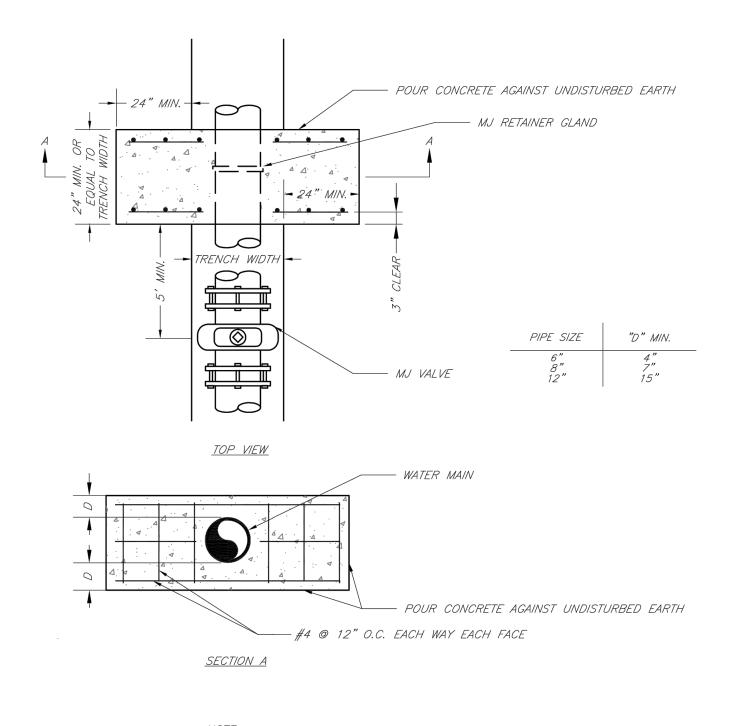








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LEE'S SUMMIT	Date: 02/13
ree 3 20 Milali I	Drawn By: JN
MISSOURI	Checked By: DL
PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	FILE: WAT-2
VERTICAL THRUST BLOCKS	Rev: 1/14
VERTICAL THRUST BLUCKS	Rev:



<u>NOTE:</u> THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

	LEE'C CLINANAIT	Date: 02/13
	LEE'S SUMMIT	Drawn By: JN
PUBLIC	MISSOURI	Checked By: DL
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	FILE: WAT-3
	STRADDLE BLOCK	Rev: 1/14
	STRADULE BLOCK	Rev:

GENERAL NOTES:

TABLE

TRENCH

UNDERGROUND PIPE INSTALLATION

THRUST BLOCKS

- 1. ALL WATERLINES SHALL HORIZONTALLY CLEAR STORM SEWER STRUCTURES BY 5' AND SANITARY SEWER STRUCTURES BY 10'. WATER MAINS SHALL VERTICALLY CLEAR STORM SEWER STRUCTURES AND SANITARY SEWER STRUCTURES BY 18".
- 2. WATER MAIN INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- MAXIMUM WIDTHS: MAXIMUM TRENCH WIDTHS SHALL BE GOVERNED BY EXISTING SOILS. TRENCH TYPE, BEDDING,

AND LAYING CONDITIONS. MAXIMUM WIDTHS SHALL NOT

EXCEED THE MANUFACTURER'S RECOMMENDATIONS.

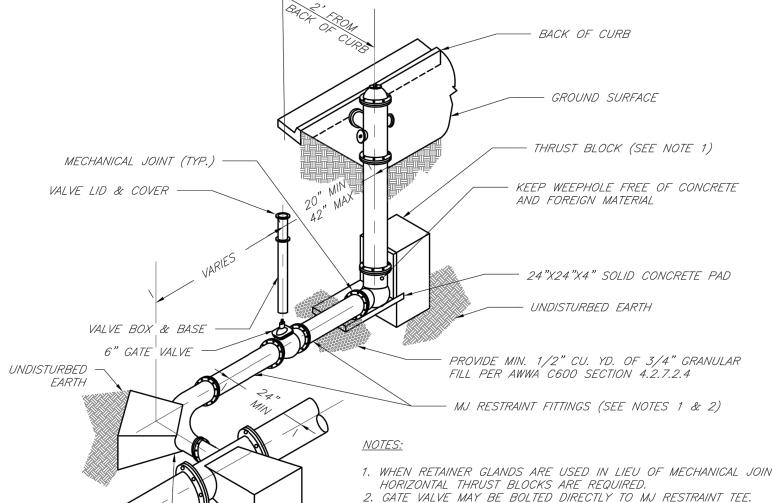
- 4. TRENCH DEWATERING: SEE SECTION 2100.
- 5. TRENCH SLOPE: SEE SECTION 2100.
- 6. TRENCH SHIELDS: SEE SECTION 2100.
- 7. COMPACTED FILL: SEE SECTION 2100.
- 8. PIPE EMBEDMENT: SEE SECTION 2100. MINIMUM THICKNESS BENEATH PIPE SHALL BE 6 INCHES PER PIPE CLEARANCES TABLE.
- 9. BEDDING INSTALLATION: SEE SECTION 2100.
- 10. BACKFILL: SEE SECTION 2100.

MINIM	UM TRENCH W	IDTHS AND PIPE CLEA	ARANCES (IN)
NOMINAL	SUGGESTED	PIPE SIDE	PIPE BOTTON
PIPE	TRENCH	CLEARANCE 2	CLEARANCE
DIAMETER	WIDTH 1	(SOIL/ROCK)	(SOIL/ROCK)
6	30	6/6	6/6
8	32	6/6	6/6
10	34	6/6	6/6
12	36	6/6	6/6

- MEASURED BELOW A HORIZONTAL PLANE 6" ABOVE THE TOP OF THE PIPELINE

- MEASURED FROM THE OUTSIDE FACE OF PIPE BARREL TO INSIDE FACE OF TRENCH

BACK OF CURB - GROUND SURFACE



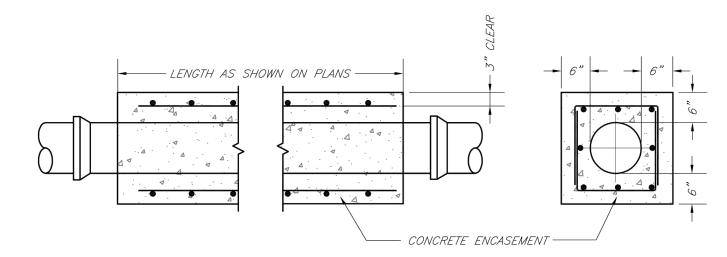
WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS,

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.

	o. There were all the morning to different by man earth.	
***************************************	LEE'S SUMMIT	Date: 02/13
	LEE 3 30 MINIT	Drawn By: JN
	MISSOURI	Checked By: DL
	PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	FILE: WAT-8
	HYDRANT WITH 90 DEGREE BEND	Rev: 1/14
	HIDRANI WIIH 90 DEGREE DEND	Rev:



1. INTERMEDIATE BELLS SHALL BE ENCASED.

2. REINFORCING STEEL SHALL BE #4 @ 12" O.C. EACH WAY WITH A MINIMUM REBAR LAP OF 12". 3. THIS DETAIL IS FOR PIPES 12" AND SMALLER.

LEE'S SUMMIT	Date: 02/13
ree 3 20 Minali	Drawn By: JN
MISSOURI	Checked By: DL
PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	FILE: WAT-4
WATER PIPE ENCASEMENT	Rev: 1/14
WATER FIFE ENCASEMENT	Rev:

MO CERT. NO. 2013011903

LAMP RYNEARSON

MARK DANIEL MCGHEE JR. PE - 2008019568 REVISIONS

01/07/2020 PER CITY COMMENTS 03/18/2020 ADDED DEFLECTIONS 04/03/2020 PER CITY COMMENTS

12/29/2021 ASBUILTS

DETAIL LINE

DESIGNER / DRAFTER DATE

11/20/2019 PROJECT NUMBER 0318050.02 BOOK AND PAGE

SHEET

06 ∘ 06