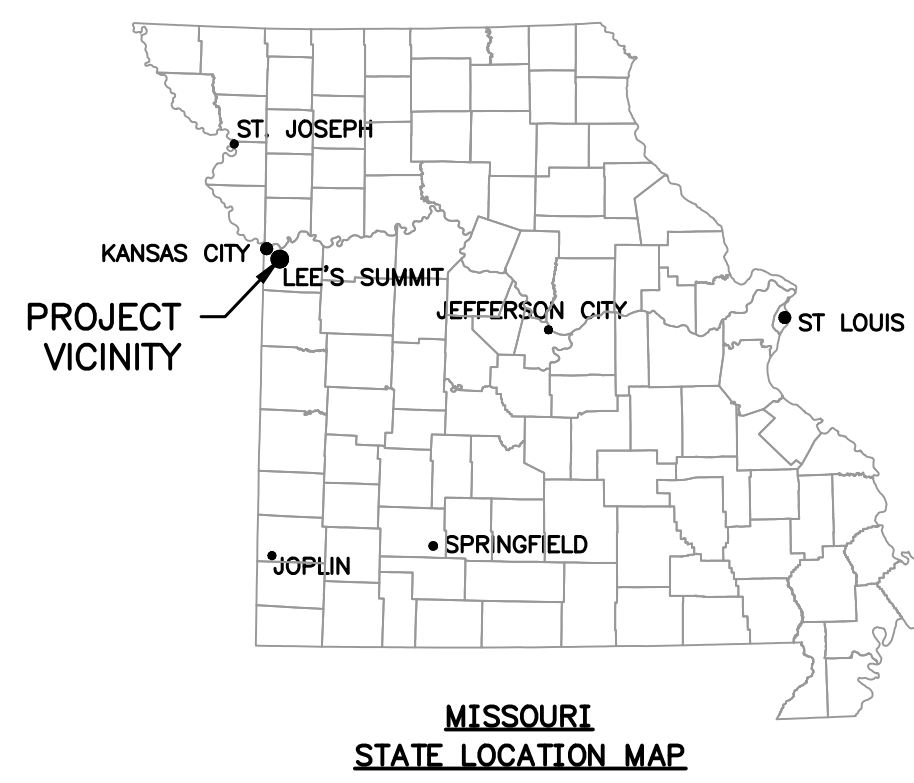


SUMMIT VIEW FARMS 4TH PLAT
LOTS 75-120 AND TRACT D

WATER LINE PLANS

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



CALL OR CLICK 3 DAYS BEFORE YOU DIG!
MISSOURI ONE CALL SYSTEM
1-800-DIG-RITE OR 811
www.mo1call.com

ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION. COORDINATE NECESSARY RELOCATIONS WITH UTILITY COMPANIES.

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



LOCATION MAP

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

ESTIMATED SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT
1	6" WATER MAIN (PVC AWWA C900)	414	LF
2	8" WATER MAIN (PVC AWWA C900)	2,365	LF
3	8" X 8" TEE (DUCTILE IRON)	4	EA
4	6" 11.25, 22.5, OR 45 DEGREE BEND	7	EA
5	8" 11.25, 22.5, OR 45 DEGREE BEND	25	EA
6	THRUST BLOCKS	57	EA
7	8" GATE VALVE	6	EA
8	8"x6" REDUCER	3	EA
9	6" RESTRAINED CAP	1	EA
10	8" RESTRAINED CAP	2	EA
11	FIRE HYDRANT ASSEMBLY	6	EA

INDEX OF SHEETS

- 01 COVER SHEET
- 02 GENERAL LAYOUT PLAN SHEET
- 03 WATER LINE PLAN AND PROFILE LINE 4-01 SHEET
- 04 WATER LINE PLAN AND PROFILE LINES 4-02 AND 4-03 SHEET
- 05 WATER LINE PROFILE LINES 4-04 AND 4-05 SHEET
- 06 WATER DETAILS SHEET



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Kansas City, MO 64114
816.361.0440
LampRynearson.com



APPROVED: _____
MARK DANIEL MCGHEE JR., PE

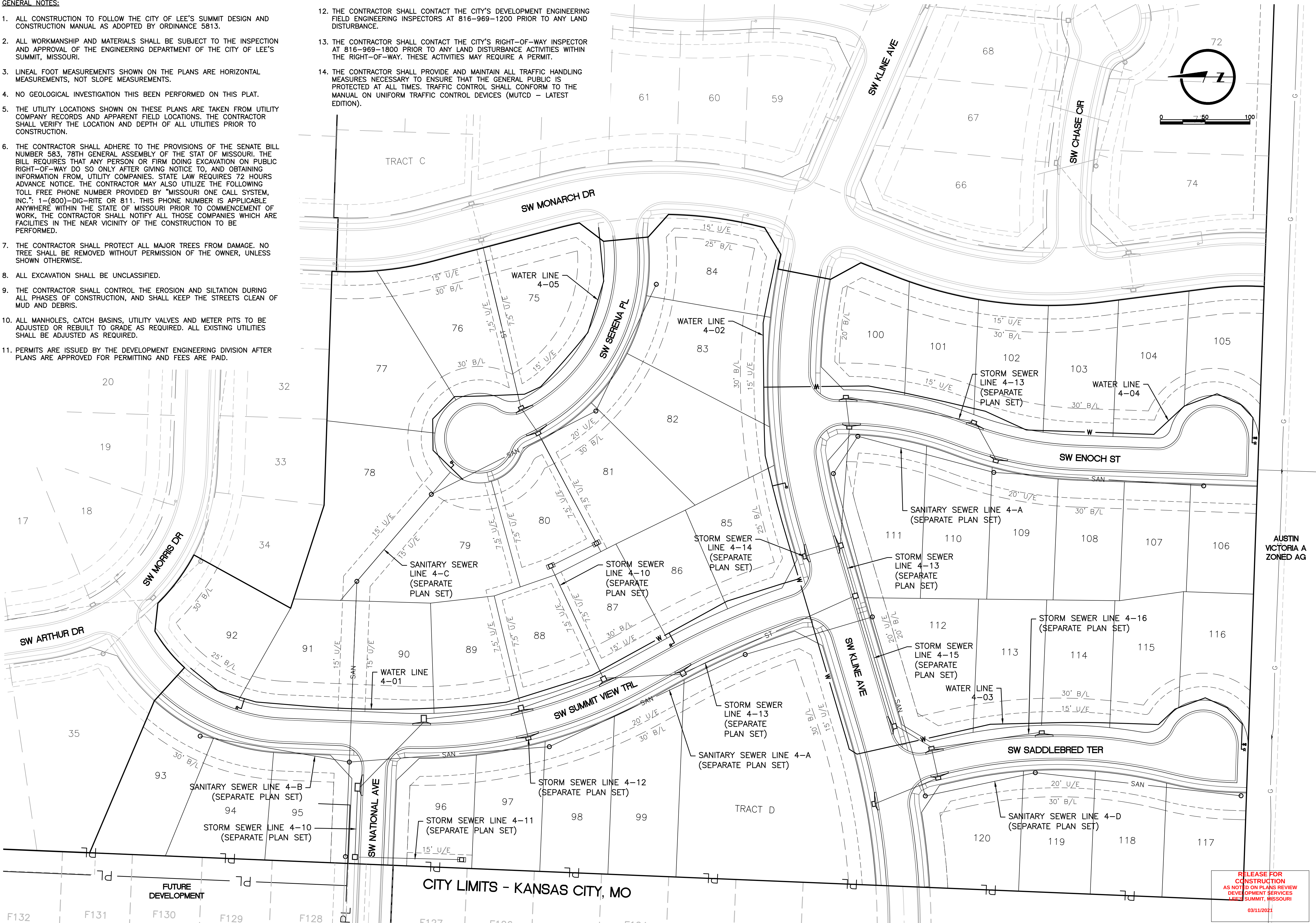
DATE: 04-03-2020

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/11/2021

GENERAL NOTES:

1. ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
3. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS.
4. NO GEOLOGICAL INVESTIGATION THIS BEEN PERFORMED ON THIS PLAT.
5. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STAT OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 72 HOURS ADVANCE NOTICE. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 1-(800)-DIG-RITE OR 811. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH ARE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
7. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.
8. ALL EXCAVATION SHALL BE UNCLASSIFIED.
9. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
10. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. ALL EXISTING UTILITIES SHALL BE ADJUSTED AS REQUIRED.
11. PERMITS ARE ISSUED BY THE DEVELOPMENT ENGINEERING DIVISION AFTER PLANS ARE APPROVED FOR PERMITTING AND FEES ARE PAID.

12. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT ENGINEERING FIELD ENGINEERING INSPECTORS AT 816-969-1200 PRIOR TO ANY LAND DISTURBANCE.
13. THE CONTRACTOR SHALL CONTACT THE CITY'S RIGHT-OF-WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT-OF-WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.
14. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD - LATEST EDITION).



MARK RYNEARSON
MO CERT. NO. 2013011903

04/03/2020

MARK DANIEL MCGHEE JR.
PE - 2008019568

REVISIONS

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

SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

WATER LINE PLANS

GENERAL LAYOUT PLAN SHEET

DESIGNER / DRAFTER

AJM

DATE

11/20/2019

PROJECT NUMBER

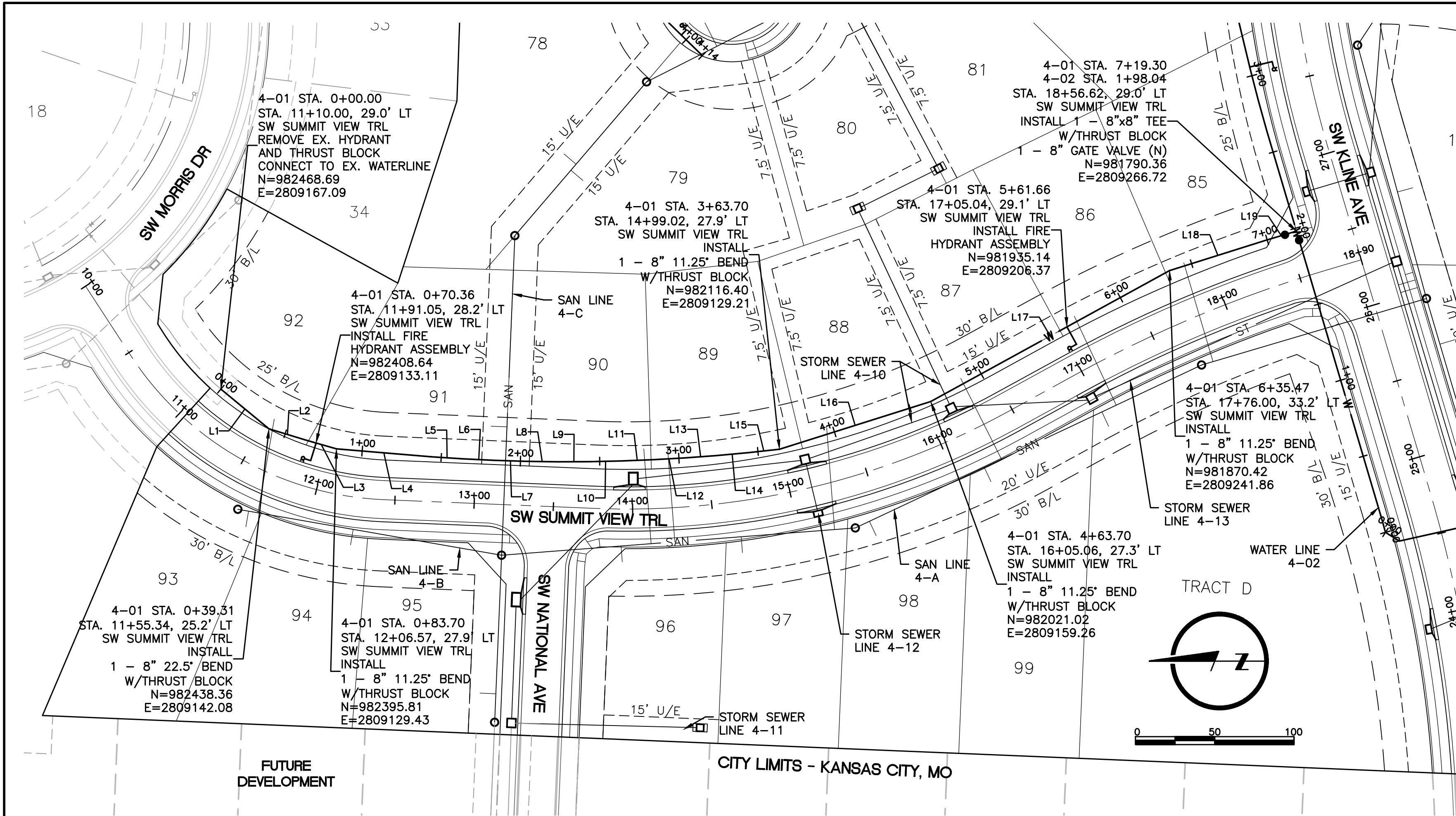
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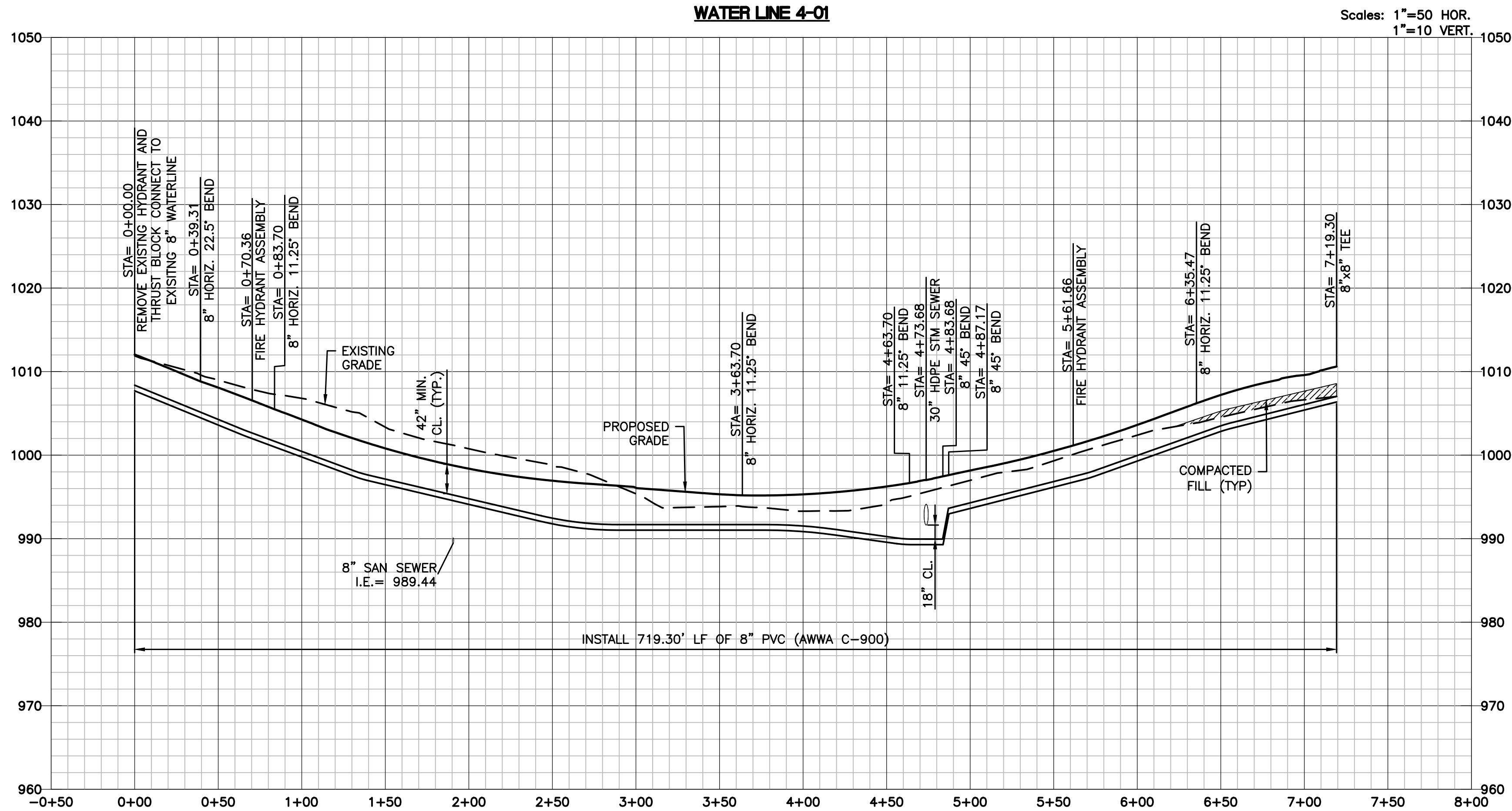
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WATER MAIN NOTES:

1. 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	



RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/11/2021

LAMP RYNEARSON
MO CERT. NO. 2013011903

04/03/2020
MARK DANIEL MCGHEE JR.
PE - 2008019568

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

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Kansas City, MO 64114
816.361.0440
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SUMMIT VIEW FARMS 4TH PLAT

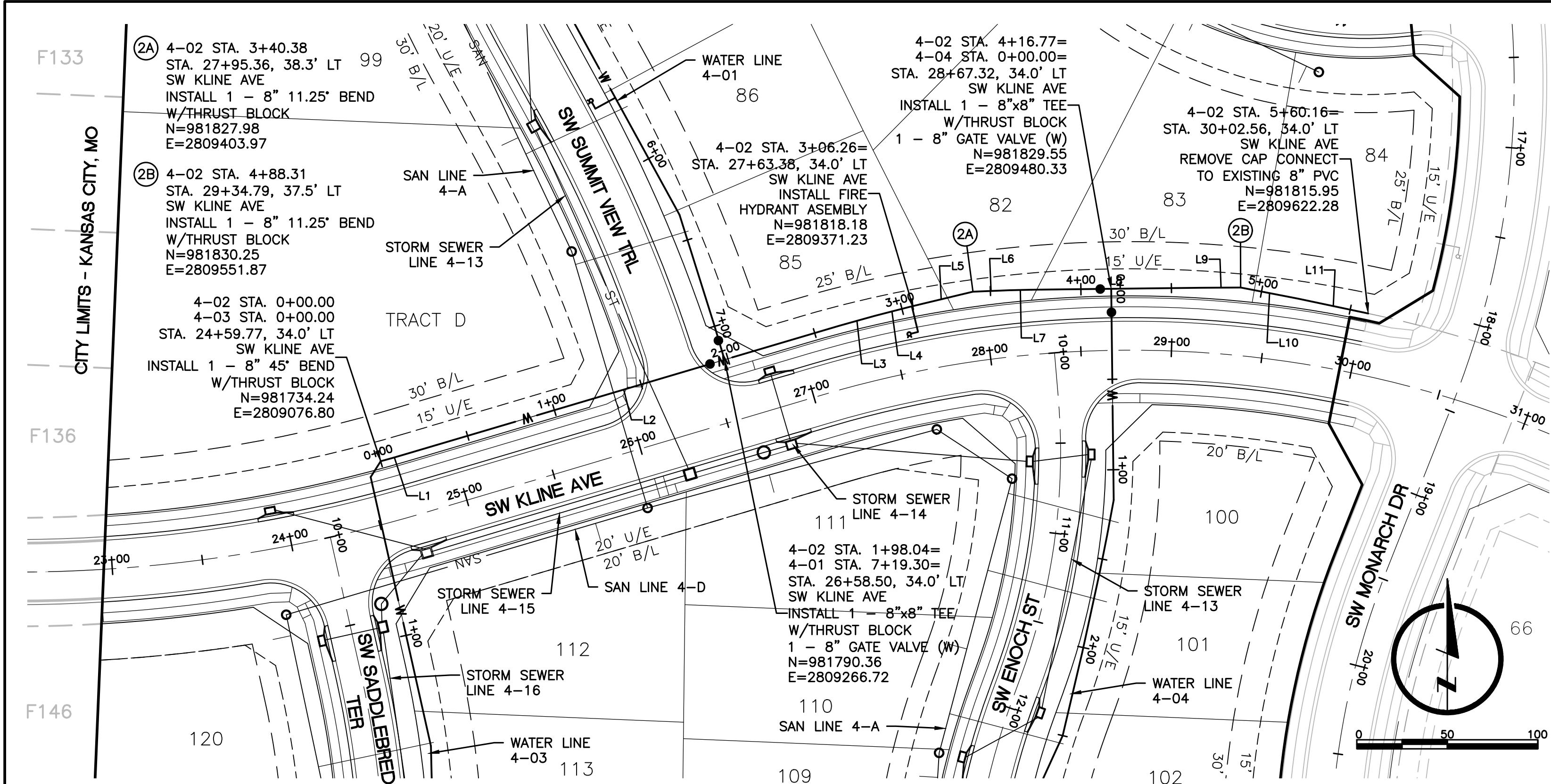
LEE'S SUMMIT, MISSOURI

WATER LINE PLANS
WATER LINE PLAN AND PROFILE
WATER LINE 4-01

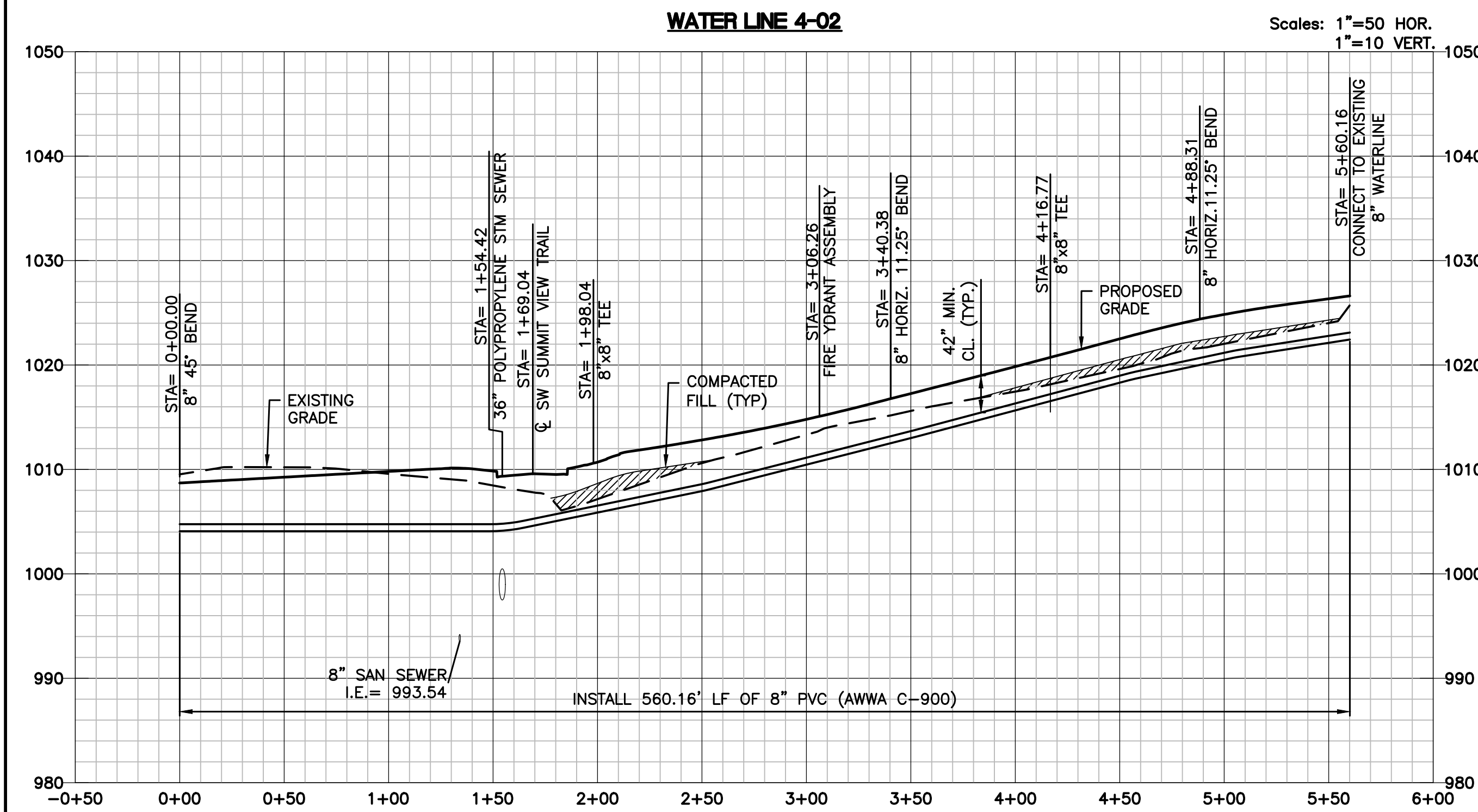
DESIGNER / DRAFTER
AJM
DATE
11/20/2019
PROJECT NUMBER
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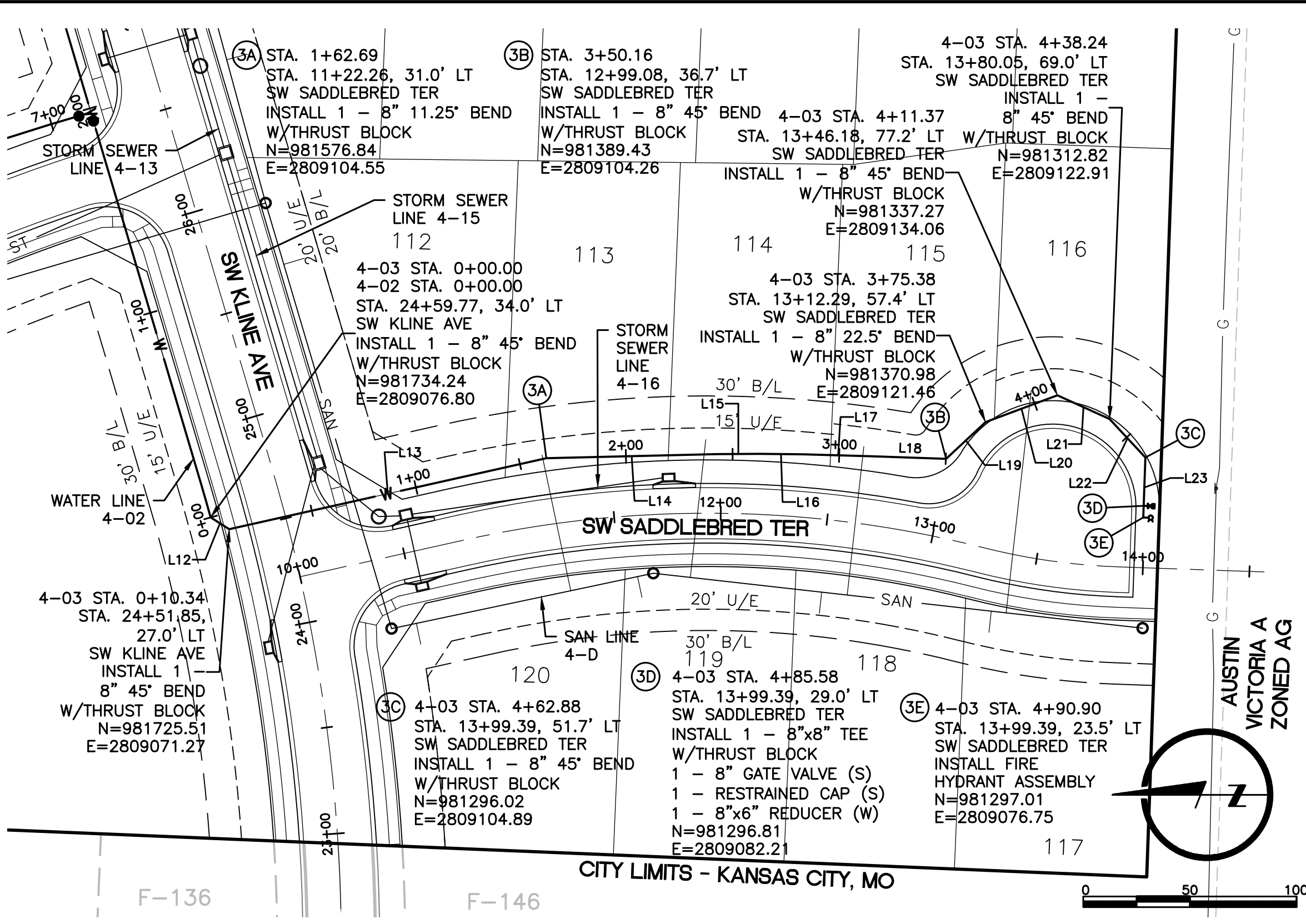
ALIGNMENT TABLE 4-02				
Line #/Curve #	Length	Direction/Delta	BEGIN NORTHING/EASTING	END NORTHING/EASTING
L1	15.65	N74° 04' 36.55"E	N=981734.24/E=2809076.80	N=981738.54/E=2809091.85
L2	248.64	N73° 29' 29.49"E	N=981738.54/E=2809091.85	N=981809.19/E=2809330.24
L3	20.00	N74° 29' 29.49"E	N=981809.19/E=2809330.24	N=981814.54/E=2809349.51
L4	20.00	N75° 29' 29.49"E	N=981814.54/E=2809349.51	N=981819.55/E=2809368.88
L5	36.09	N76° 29' 29.49"E	N=981819.55/E=2809368.88	N=981827.98/E=2809403.97
L6	20.00	N87° 44' 29.49"E	N=981827.98/E=2809403.97	N=981828.77/E=2809423.95
L7	12.30	N88° 44' 29.49"E	N=981828.77/E=2809423.95	N=981829.04/E=2809436.24
L8	93.86	N89° 20' 06.04"E	N=981829.04/E=2809436.24	N=981830.13/E=2809530.10



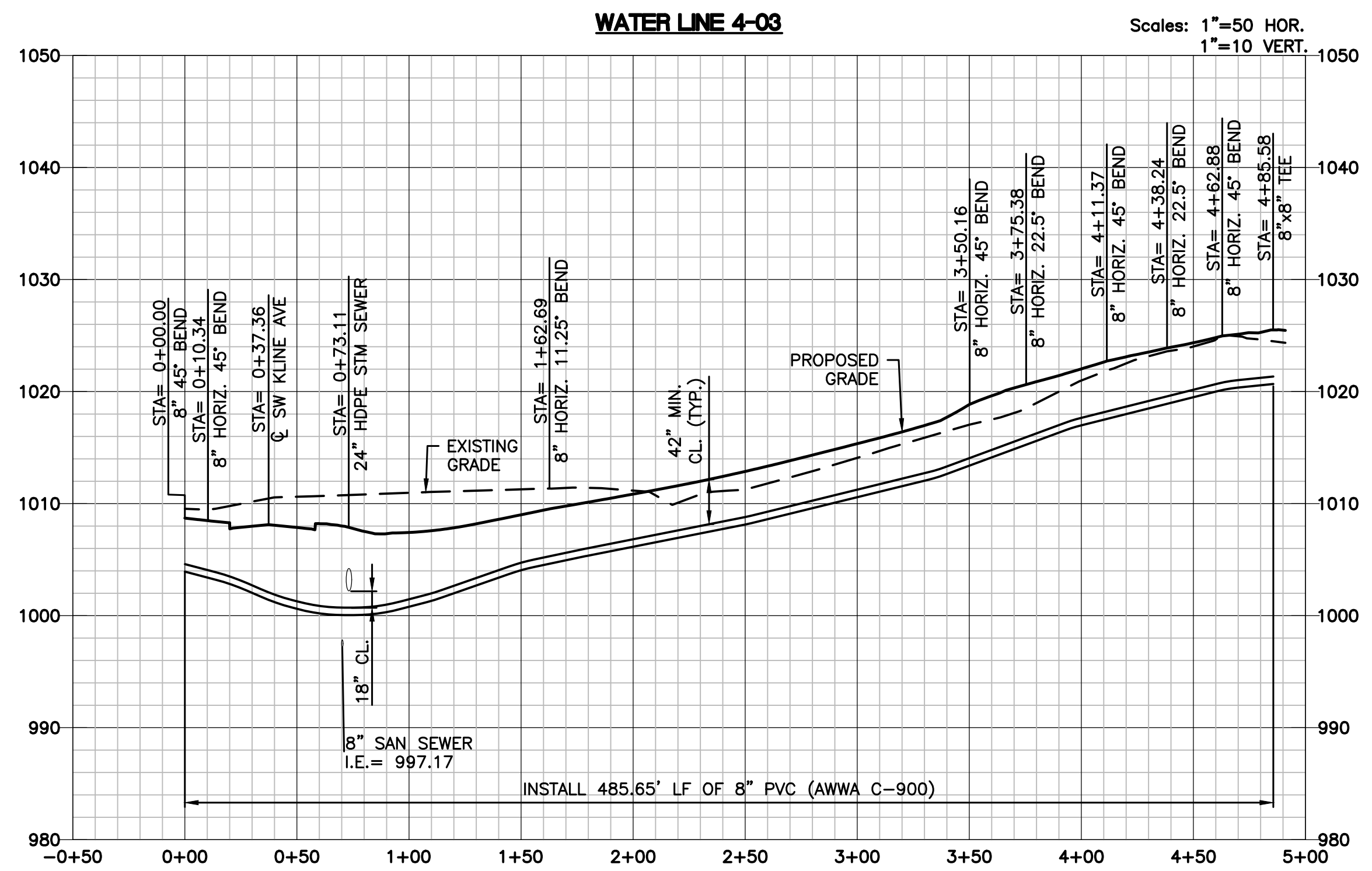
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RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/11/2021



ALIGNMENT TABLE 4-03				
Line #/Curve #	Length	Direction/Delta	BEGIN NORTHING/EASTING	END NORTHING/EASTING
L15	20.00	S00° 22' 14.80"E	N=981496.86/E=2809106.47	N=981476.86/E=2809106.60
L16	20.00	S00° 37' 45.20"W	N=981476.86/E=2809106.60	N=981456.86/E=2809106.38
L17	33.60	S01° 37' 45.20"W	N=981456.86/E=2809106.38	N=981423.28/E=2809105.42
L18	33.87	S01° 57' 29.64"W	N=981423.28/E=2809105.42	N=981389.43/E=2809104.26
L19	25.22	S42° 59' 30.55"E	N=981389.43/E=2809104.26	N=981370.98/E=2809121.46
L20	35.99	S20° 29' 30.55"E	N=981370.98/E=2809121.46	N=981337.27/E=2809134.06
L21	26.87	S24° 30' 29.45"W	N=981337.27/E=2809134.06	N=981312.82/E=2809122.91
L22	24.64	S47° 00' 29.45"W	N=981312.82/E=2809122.91	N=981296.02/E=2809104.89
L23	28.16	N87° 59' 30.55"W	N=981296.02/E=2809104.89	N=981297.01/E=2809076.75



LAMP RYNEARSON
MO CERT. NO. 2013011903

MARK DANIEL MCQUEE, JR.
PE - 208019568
REVISIONS
01/07/2020 PER CITY COMMENTS
03/18/2020 ADDED DEFLECTIONS
04/03/2020 PER CITY COMMENTS
10/02/2020 ADDED HDS UNITS

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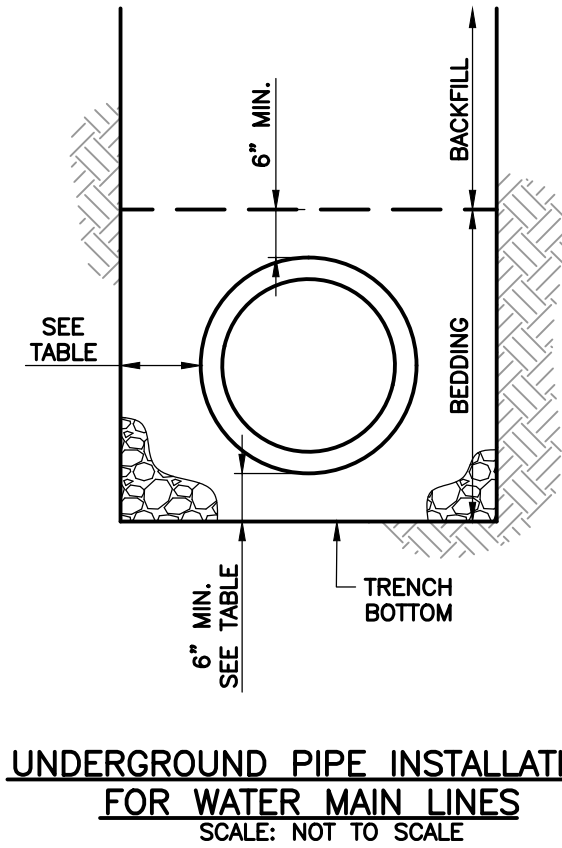
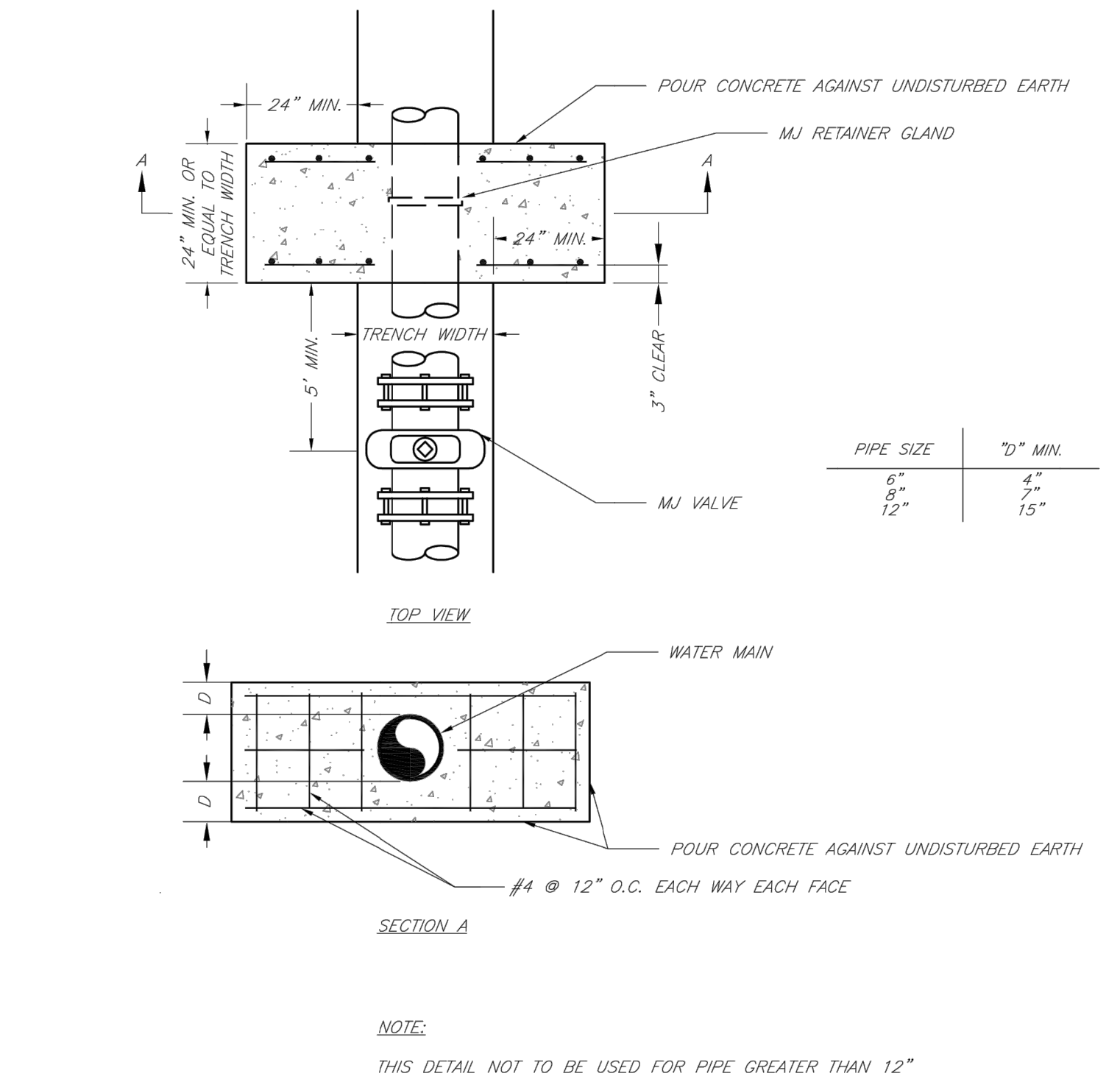
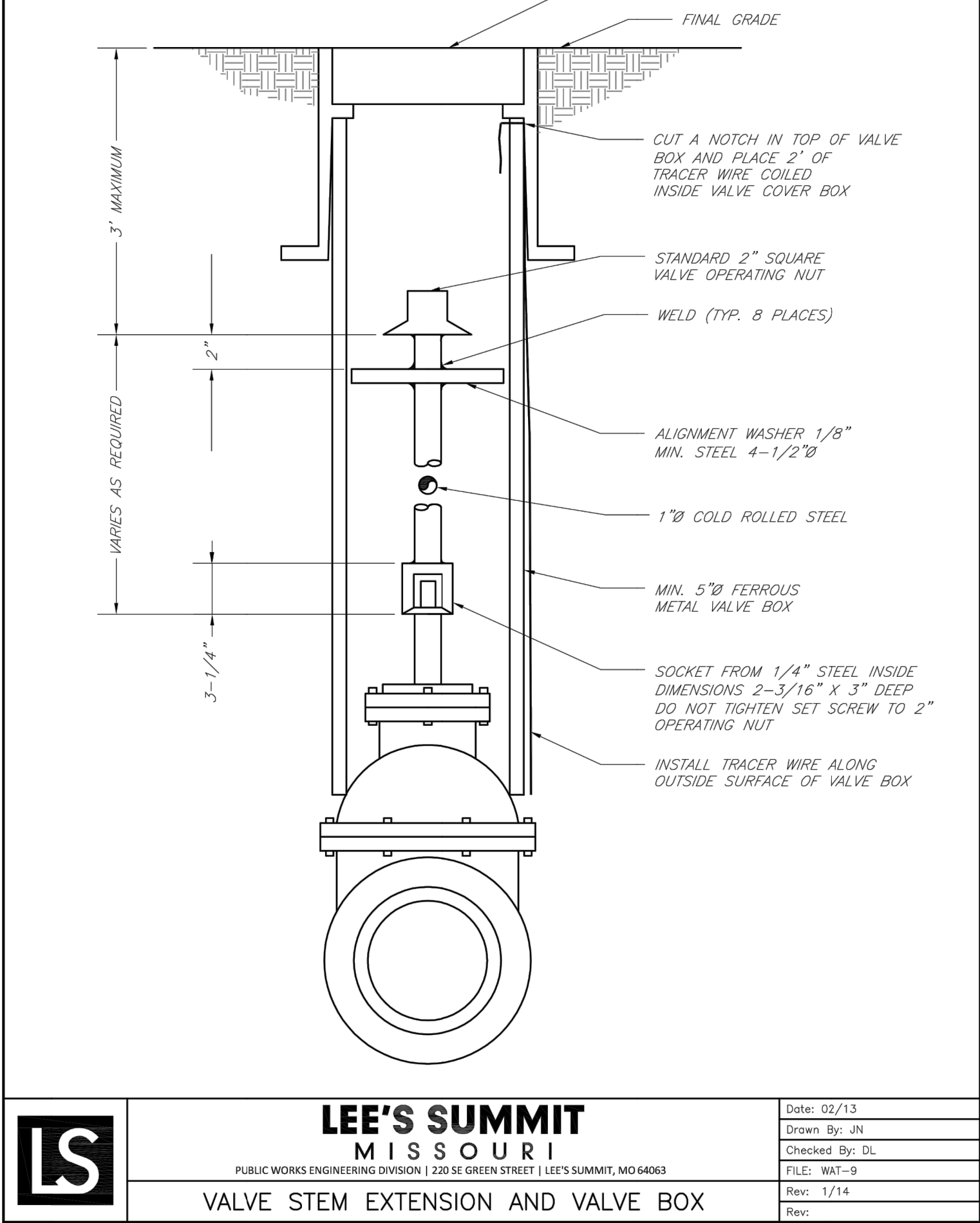
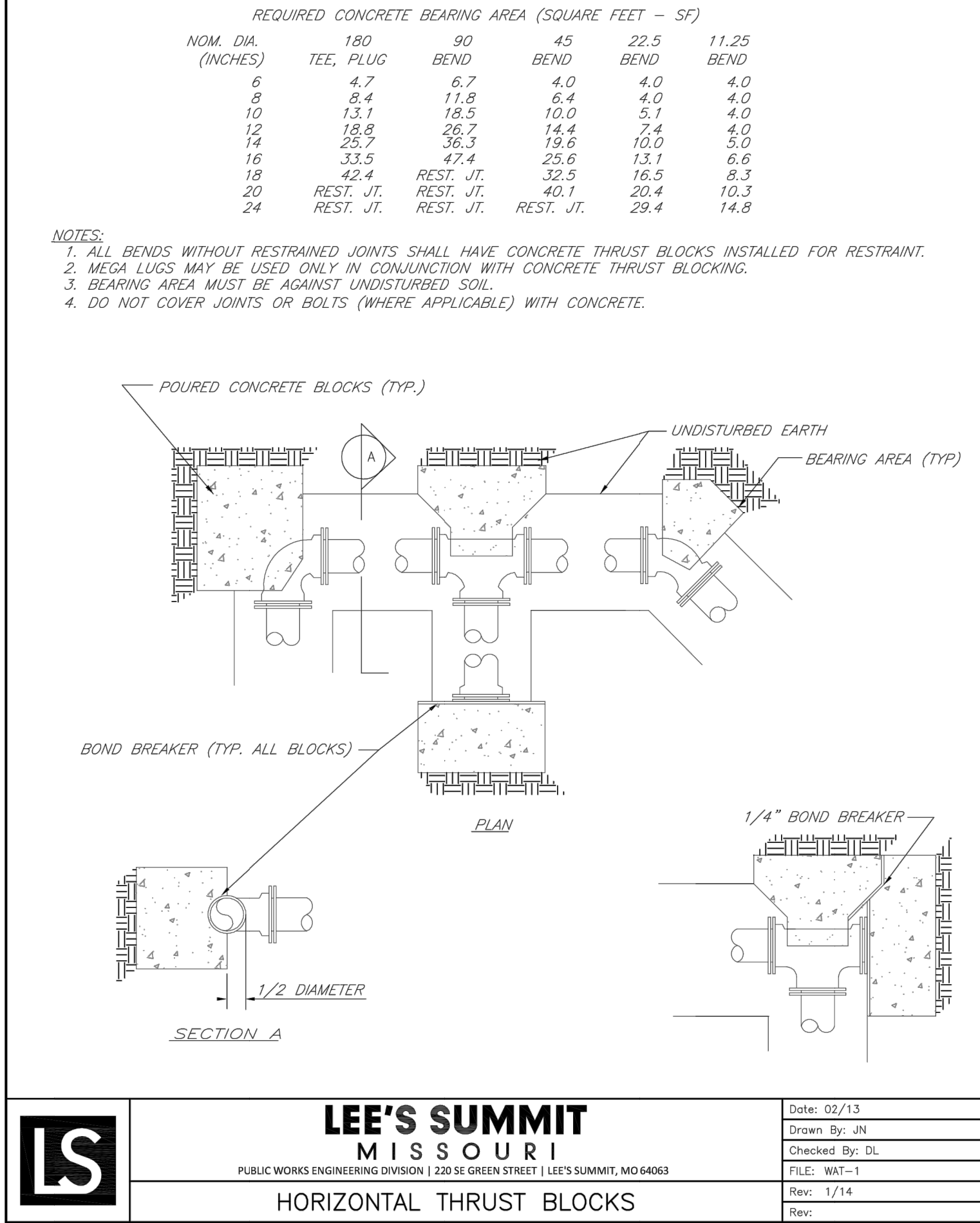
LAMP RYNEARSON

SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

WATER LINE PLANS
WATER LINE PLAN AND PROFILE
WATER LINE 4-02 AND 4-03
DESIGNER / DRAFTER
AJM
DATE
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PROJECT NUMBER
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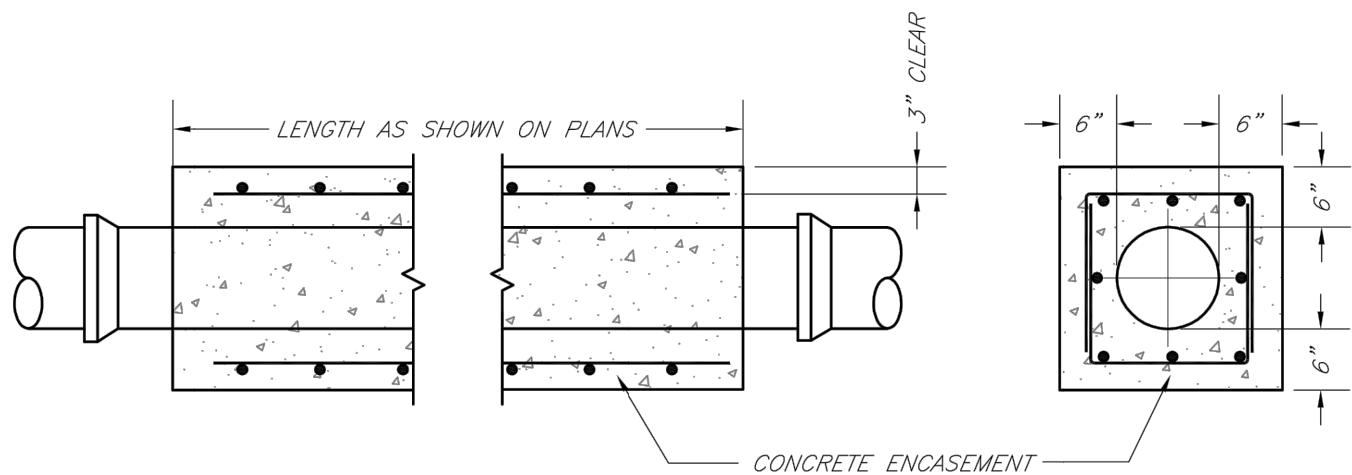
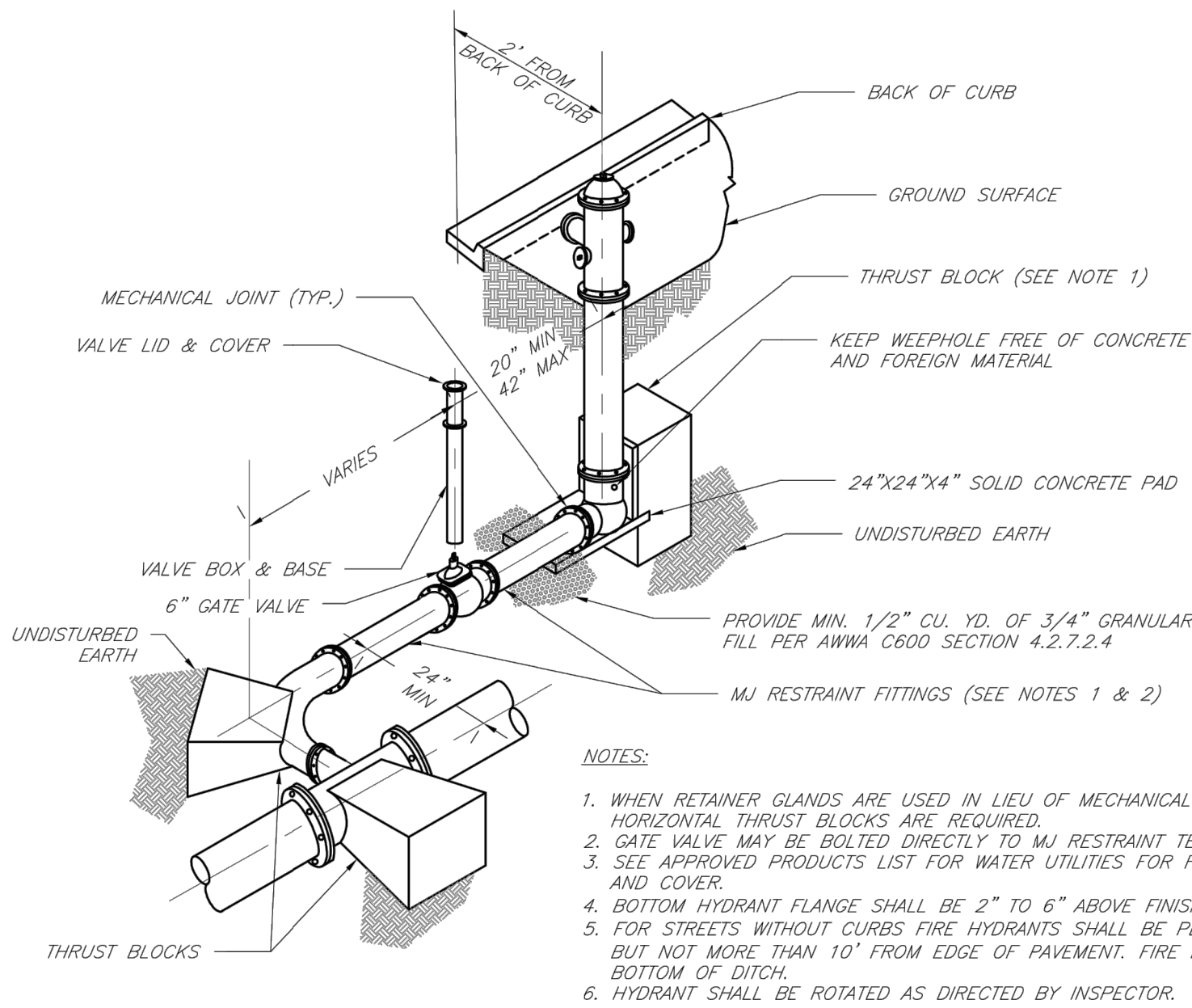


GENERAL NOTES:

- 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".
- 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.
- TRENCH DEWATERING: SEE SECTION 2100.
- TRENCH SLOPE: SEE SECTION 2100.
- TRENCH SHIELDS: SEE SECTION 2100.
- COMPACTED FILL: SEE SECTION 2100.
- PIPE EMBEDMENT: SEE SECTION 2100. MINIMUM THICKNESS BENEATH PIPE SHALL BE 6 INCHES PER PIPE CLEARANCES TABLE.
- BEDDING INSTALLATION: SEE SECTION 2100.
- BACKFILL: SEE SECTION 2100.

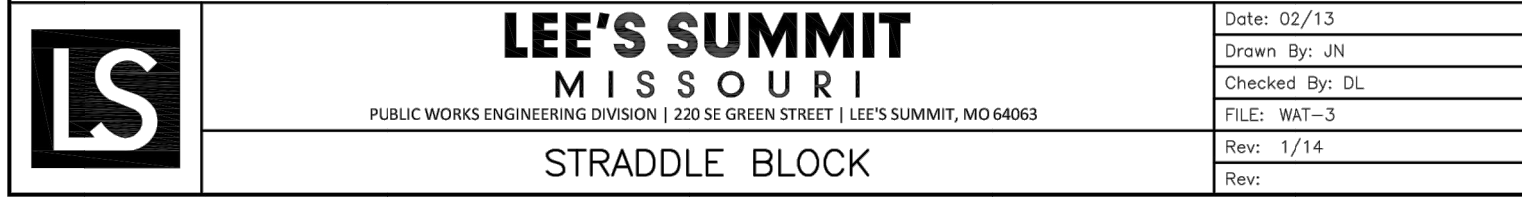
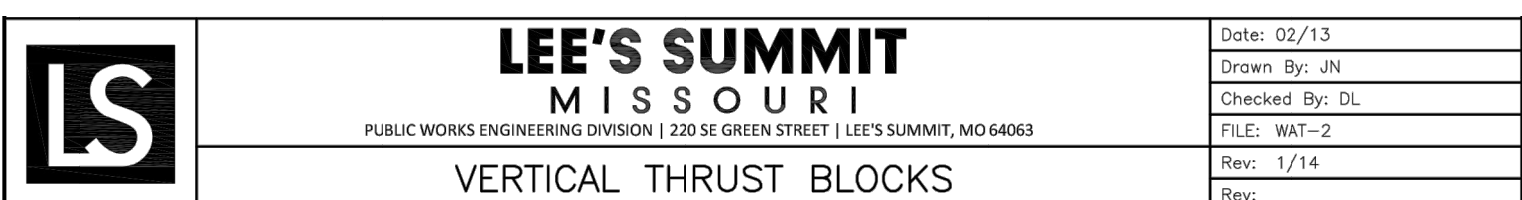
MINIMUM TRENCH WIDTHS AND PIPE CLEARANCES (IN)			
NOMINAL PIPE DIAMETER	SUGGESTED TRENCH WIDTH 1	PIPE SIDE CLEARANCE 2 (SOIL/ROCK)	PIPE BOTTOM CLEARANCE (SOIL/ROCK)
6	30	6/6	6/6
8	32	6/6	6/6
10	34	6/6	6/6
12	36	6/6	6/6

1 - MEASURED BELOW A HORIZONTAL PLANE 6" ABOVE THE TOP OF THE PIPELINE
2 - MEASURED FROM THE OUTSIDE FACE OF PIPE BARREL TO INSIDE FACE OF TRENCH



NOTES:

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



RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
03/11/2021

LAMP RYNEARSON
MO CERT. NO. 2013011903

04/03/2020
MARK DANIEL MCGHEE JR.
PE - 2008019568

REVISIONS
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9001 State Line Rd., Ste. 200
Kansas City, MO 64114
816.361.0440
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SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

WATER LINE PLANS

WATER LINE DETAILS

DESIGNER / DRAFTER
AJM
DATE
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