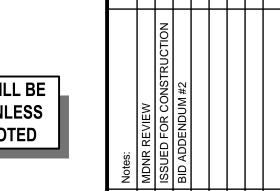
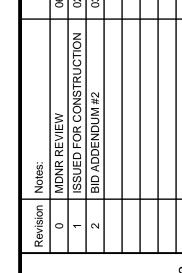
WATER MAIN REPLACEMENT - FY24 WATER UTILITIES DEPARTMENT CITY OF LEE'S SUMMIT, MISSOURI PHASE 1 - BID NO. 722

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED





O W

COUNT JACKSON SUM

KAREN I. ALLISON NUMBER NPB-202304257

02/22/2024

PROJECT LOCATION
NE COLBERN RD #3 PROJECT LOCATION
NE COLBERN RD #1 & #2 WOODS CHAPEL ROAD PROJECT LOCATION
NE POLLARD RD PROJECT LOCATION
NE RICE RD PROJECT LOCATION
JOHN KNOX RETIREMENT PROJECT LOCATION SUMMIT WOODS #1, #2 & #3 PROJECT LOCATION
JOHN KNOX EAST **COMMERCIAL** DEVELOPMENT PROJECT LOCATION SW SCHERER RD SCHERER RD PROJECT LOCATION CEDAR CREEK MALL PROJECT LOCATION SW SCHERER LANE SW SCHERER RD **PROJECT LOCATION** SW MARKET ST

VICINITY MAP

GENERAL NOTES & LEGEND QUANTITIES WATER METER SCHEDULE

COVER SHEET

WATER PLAN & PROFILES

GENERAL

JOHN KNOX RETIREMENT VILLAGE JOHN KNOX EAST COMMERCIAL

SHEET INDEX:

DEVELOPMENT

SUMMIT WOODS #1, #2 & #3

CEDAR CREEK MALL NE COLBERN ROAD #1, #2 & #3

NE RICE ROAD

NE POLLARD ROAD SW MARKET STREET #1 & #2

SW SCHERER ROAD 22-23 **ABANDONMENT PLANS**

SW SCHERER ROAD #1-1 & #1-2 SW SCHERER ROAD #2

SW SCHERER LANE

STANDARD DETAILS 28-36 DETAILS

UTILITY COMPANIES BEFORE EXCAVATING CALL: 1 (800) DIG-RITE

SPIRE ENERGY RICHI GARCIA (816) 507-0713 richi.garcia@spireenergy.com

ELECTRICITY EVERGY PHIL INGRAM (816) 347-4339 1105 SE US HWY 40 **BLUE SPRINGS, MO 64014** phillip.ingram@evergy.com

CRAIG PERKINS (816) 275-2721 500 East 8th Street, Room 1152 Kansas City, MO 64106 CP0772@att.com

WATER & WASTEWATER LEE'S SUMMIT WATER UTILITIES (816) 969-1940 1200 SE HAMBLEN RD.

DIVISION (816) 969-1870

LEE'S SUMMIT, MO 64081

1971 SE HAMBLEN RD. LEE'S SUMMIT, MO 64082 LS R-7 SCHOOL DISTRICT **TRANSPORTATION KEITH HENRY** (816) 986-2405 LS R-7 SCHOOL DISTRICT FIBER

SCHOOLS

KINZIE WOODERSON (816) 986-105

CABLE COMCAST JIM DUFF (816) 795-2257 3400 NW DUNCAN RD. **BLUE SPRINGS. MO 64015** james_duff@cable.comcast.com **GOOGLE FIBER**

(816) 508-7287

ANDREA SAKLA (415) 736-9962 908 BROADWAY BLVD. KANSAS CITY, MO 64105 kc-google-uc@google.com SPECTRUM

TROY PREWITT, STEVE BAXTER STREETS & STORMWATER **8221 WEST 119TH STREET PUBLIC WORKS OPERATIONS OVERLAND PARK, KS 66213** troy@cablem.com steve.baxter@twcable.com

NOTE:
KNOWN UNDERGROUND UTILITIES IN THE VICINITY OF THE WORK ARE SHOWN ON THESE PLANS, ALTHOUGH OTHERS MAY EXIST. THE LOCATIONS SHOWN ARE BELIEVED TO BE REASONABLY CORRECT, BUT DO NOT PURPORT TO BE ABSOLUTELY SO. BEFORE STARTING WORK, THE CONTRACTOR SHALL GIVE NOTICE TO AND OBTAIN INFORMATION FROM EACH OWNER AND OPERATOR OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH THE MISSOURI UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION STATUTE (RSMO CHAPTER 319.015 - 319.050).

- CONTRACTOR SHALL THOROUGHLY REVIEW AND BECOME FAMILIAR WITH THE PROJECT PLANS. SPECIFICATIONS AND ANY SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION ON THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
- CONTRACTOR SHALL NOT BE ALLOWED TO WORK WEEKENDS OR HOLIDAYS WITHOUT REQUESTING PRIOR APPROVAL FROM THE CITY THREE WORKING DAYS IN ADVANCE.
- CONTRACTOR SHALL MAINTAIN THRU TRAFFIC AT ALL TIMES. IF ONE LANE IS TEMPORARILY CLOSED, CONTRACTOR SHALL PROVIDE FLAGGERS AND SIGNAGE PER THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL WORK SHALL BE WITHIN EXISTING CITY RIGHT-OF-WAY, UTILITY EASEMENTS OR TEMPORARY EASEMENTS.
- CONSTRUCTION VEHICLES AND EQUIPMENT SHALL NOT BE PARKED ON PRIVATE PROPERTY. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM SAID PROPERTY OWNER(S) IF SUCH ACCESS IS REQUIRED. NO PAYMENT SHALL BE MADE FOR ADDITIONAL CONSTRUCTION EASEMENTS.
- ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE EXACT LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. CONTRACTOR SHALL HAVE EACH UTILITY MARKED BY MISSOURI-ONE-CALL.
- CONTRACTOR SHALL SEQUENCE CONSTRUCTION TO MINIMIZE OUT OF SERVICE TIME OF WATER MAINS AND SERVICE TO CUSTOMERS.
- SPECIFIC REQUIREMENTS FOR WATER LINE CONSTRUCTION SEQUENCING ARE NOTED IN SECTION 01105 OF THE PROJECT MANUAL. THE CONTRACTOR SHALL NOTIFY CITY STAFF SEVEN CALENDAR DAYS PRIOR TO ANY WATER MAIN SHUTDOWN. CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR UTILITY SERVICE DISRUPTION TO ANY SPECIFIC PROPERTY OWNERS AND/OR TENANTS.
- CONTRACTOR SHALL NOTIFY LEES SUMMIT WATER UTILITIES DEPARTMENT AND CITY INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF ANY WORK INVOLVING CLOSING OR OPENING OF ANY WATER VALVES.
- CONTRACTOR SHALL NOTIFY UTILITY OWNERS AT LEAST 48 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ACROSS AND/OR ADJACENT TO UTILITIES.
- OPERATION OF WATER VALVES SHALL BE DONE UNDER THE SUPERVISION OF CITY INSPECTOR AND/OR WATER UTILITY DEPARTMENT PERSONNEL.
- CONTRACTOR SHALL MINIMIZE DRIVEWAY ACCESS DISRUPTION TO RESIDENTS. AT LOCATION OF DRIVEWAY APPROACH DEMOLITION AND RECONSTRUCTION, THE RESIDENT SHALL BE PROVIDED A MINIMUM OF 48-HOURS NOTICE PRIOR TO COMMENCEMENT OF THE WORK. TRAFFIC SHALL BE MAINTAINED AT PRIVATE ENTRANCES BY PLACEMENT OF TEMPORARY AGGREGATE SURFACING OR OTHER ACCEPTABLE MEANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, AND IF DAMAGED, RESTORING MAILBOXES, DRIVEWAY MARKERS, YARD LIGHTS, BASEMENT DRAINS, ROOF DRAINS, SPRINKLER SYSTEMS, UTILITY SERVICE LINE CONNECTIONS, GATES, FENCES, RETAINING WALLS, AND OTHER ITEMS TO PRE-CONSTRUCTION CONDITION OR EQUAL. NO PAYMENT SHALL BE MADE FOR THIS RESTORATION UNLESS LISTED IN THE CONTRACT UNIT PRICES OR STATED IN THIS NOTE. CONTRACTOR SHALL BE PAID FOR REPAIRING SANITARY SEWER SERVICE LATERALS ON A TIME AND MATERIALS BASIS.
- ALL FENCE REPLACEMENT SHALL BE RELOCATED TO THE PROPERTY LINES, UNLESS THE EXISTING FENCE WAS LOCATED INSIDE THE PROPERTY LINES. FENCE INSIDE THE PROPERTY LINES SHALL BE PLACED IN ITS ORIGINAL LOCATION. GATES AND FENCE CORNERS SHALL BE RE-ESTABLISHED AT THE ORIGINAL LOCATIONS UNLESS INDICATED BY THE PLANS. REMOVALS SHALL BE AS SHOWN ON THE PLANS OR AS APPROVED BY THE OWNER. REMOVALS NOT APPROVED BY OWNER SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING SURVEY MONUMENTS WHICH INCLUDE RIGHT OF WAY MARKERS AND PROPERTY PINS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH SURVEY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. MONUMENTS SHALL BE REESTABLISHED BY A MISSOURI LICENSED LAND SURVEYOR IN ACCORDANCE WITH MISSOURI STATE LAWS AT CONTRACTOR'S EXPENSE.
- CONNECTIONS TO EXISTING WATER MAINS, FITTINGS OR VALVES SHALL BE CONSIDERED SUBSIDIARY TO THE INSTALLATION OF THE NEW WATER MAIN. NO DIRECT PAYMENT SHALL BE MADE FOR CONNECTING TO EXISTING WATER MAINS, FITTINGS OR VALVES.
- NO PIPE BURSTING PITS SHALL BE LOCATED WITHIN RESIDENTIAL DRIVEWAYS WITHOUT PRIOR APPROVAL OF THE CONSTRUCTION PROJECT MANAGER.
-). $\,$ ALL VALVES SHALL BE INSTALLED HORIZONTALLY SUCH THAT THE OPERATING NUT AND STEM ARE PLUMB.
- CONTRACTOR SHALL PROVIDE TEMPORARY FITTINGS AND RESTRAINT AS NECESSARY TO MAINTAIN SERVICE ON EXISTING AND PROPOSED WATERLINES. INSTALLING TEMPORARY FITTINGS AND RESTRAINT SHALL BE SUBSIDIARY TO THIS WORK AND THE CONTRACTOR SHALL RECEIVE NO DIRECT PAYMENT.
- MEGALUG IS NOT CONSIDERED PERMANENT RESTRAINT AND MUST BE USED IN CONJUNCTION WITH STRADDLE OR THRUST BLOCKS.
- 22. WATER SERVICE LINES SHALL BE BORED UNDER PAVED SURFACES.
- 23. THE PHRASE "REMOVE AND REPLACE" AS USED IN THESE DRAWINGS SHALL REQUIRE THE CONTRACTOR TO REMOVE EXISTING MATERIALS FROM THE PROJECT SITE. THE CONTRACTOR SHALL INSTALL NEW MATERIALS TO REPLACE THOSE MATERIALS REMOVED FROM THE PROJECT SITE.
- . CONTRACTOR SHALL NOT LOCATE VALVE BOXES IN THE CURB.
- WHEN THE VALVE OPERATING NUT IS MORE THAN 3 FEET BELOW THE VALVE COVER, CONTRACTOR SHALL FURNISH AND INSTALL A VALVE OPERATING NUT EXTENSION IN ACCORDANCE WITH CITY OF LEE'S SUMMIT STANDARDS.
- CONTRACTOR SHALL ABANDON ALL VALVES LOCATED ALONG WATER MAINS TO BE ABANDONED BY THIS PROJECT. ABANDONING VALVES SHALL BE CONSIDERED SUBSIDIARY TO THE PIPE INSTALLATIONS AND NO DIRECT PAYMENT SHALL BE MADE TO THE CONTRACTOR.
- ALL DUCTILE IRON FITTINGS, PIPES, BENDS, AND VALVES SHALL BE POLYETHYLENE ENCASED IN ACCORDANCE WITH AWWA C105 "POLYETHYLENE ENCASEMENT FOR DUCTILE IRON PIPE." POLYWRAP SHALL BE MINIMUM 12 MIL CLEAR POLY.
- EXISTING WATER SERVICES SHALL REMAIN IN SERVICE UNTIL NEW WATERLINE IS TESTED, DISINFECTED, ACCEPTED, AND READY FOR SERVICE TRANSFER. THE CONTRACTOR SHALL CONNECT ALL SERVICE LINES TO A NEW WATER MAIN WHERE OLD WATER MAINS ARE REPLACED OR ABANDONED.
-). ALL EXISTING HYDRANTS, VALVES AND METERS TO BE REMOVED SHALL BE RETURNED TO THE CITY OF LEE'S SUMMIT WATER UTILITIES OFFICE AT 1200 SE HAMBLEN ROAD, UNLESS DIRECTED OTHERWISE BY CITY INSPECTOR.
- f 0.~~ ALL ABANDONED WATER PIPE SHALL BE DRAINED AS MUCH AS POSSIBLE AND CAPPED WITH MINIMUM OF f 12" OF CONCRETE.
- CONTRACTOR SHALL PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL TO PREVENT SOIL AND/OR DEBRIS FROM ENTERING STREETS, DITCHES, CREEKS, YARDS OR RESIDENCES. REPAIR OR DREDGING OF SURFACE WATERS THAT RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EROSION AND SEDIMENT CONTROL (ESC) SHALL BE THE CONTRACTOR'S RESPONSIBILITY INCLUDING MAINTAINING ESC SYSTEMS, REPLACING DAMAGED OR FAILED ESC DEVICES, AND INSPECTING THE SITE IN ORDER TO REPAIR THE ESC SYSTEM WITHIN 24 HOURS AFTER A SIGNIFICANT 1/2-INCH RAIN EVENT.
- AREA DISTURBED SHALL BE KEPT TO A MINIMUM. ALL VEGETATED AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITH SOD UNLESS OTHERWISE NOTED. ALL OTHER DISTURBED AREAS SHALL BE RESTORED TO MATCH PRE-CONSTRUCTION CONDITIONS ACCORDING TO THE STANDARD DETAILS OF THESE PLANS.
- PIPE RESTRAINT MEASURES ARE SHOWN FOR BASIC INFORMATION PURPOSES. MORE RESTRAINTS MAY BE NECESSARY DEPENDING UPON HOW THE WORK IS PERFORMED. INSTALLING PIPE RESTRAINT MEASURES SHALL BE SUBSIDIARY TO THE PIPE INSTALLATION AND NO DIRECT PAYMENT SHALL BE MADE TO THE CONTRACTOR.
- . ALL RETAINING WALLS THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR. RESTORING RETAINIING WALL SHALL BE CONSIDERED SUBSIDIARY TO THE PIPE INSTALLATION AND NO DIRECT PAYMENT SHALL BE MADE TO THE CONTRACTOR.

- 36. EXCAVATED MATERIALS SHALL NOT BE STORED ON CITY STREETS OVERNIGHT. CONTRACTOR SHALL NOT STORE EXCAVATED MATERIALS IN GRASSY AREAS WHERE TRENCHLESS METHODS ARE USED TO INSTALL A WATER LINE. CONTRACTOR MAY STORE EXCAVATED MATERIALS IN GRASSY AREAS WHERE TRENCH INSTALLATION IS USED TO INSTALL A WATER LINE.
- 37. CONTRACTOR SHALL SUBMIT COPIES OF WRITTEN AGREEMENTS WITH PROPERTY OWNERS TO THE CITY'S CONSTRUCTION PROJECT MANAGER.
- 38. CONTRACTOR SHALL FOLLOW THE PVC PIPE ASSOCIATION GUIDE FOR TAPPING AWWA C900 PIPE. STAGGER MULTIPLE TAPS AT LEAST 18 INCHES APART THAT ARE CONNECTED ON OPPOSITE SIDES OF THE WATER MAIN. TAPS ON THE SAME SIDE OF THE WATER MAIN MUST BE AT LEAST 36 INCHES APART.
- 39. CONTRACTOR SHALL AVOID DAMAGING TREES DURING THE PROJECT. ANY WORK THAT MAY DAMAGE TREES SHALL BE ADDRESSED ON A CASE BY CASE BASIS.
- 40. NO STREET SHALL BE CLOSED WITHOUT THE APPROVAL OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT LEAST 14 DAYS IN ADVANCE OF ANY STREET CLOSURE. IF A DETOUR ROUTE AROUND THE CLOSURE IS TO BE PROVIDED, ALL DETOUR SIGNING SHALL BE AS SHOWN ON A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.
- 41. THE NEW MAINS MAY BE INSTALLED OFF EXISTING ALIGNMENT, WITHIN THE EASEMENT OR ROW, WITH APPROVAL FROM THE OWNER.
- 42. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH PROPERTY OWNERS. THIS COST IS CONSIDERED SUBSIDIARY.
- 43. BY ORDINANCE 17-42, WORKING HOURS WITHIN THE CITY OF LEE'S SUMMIT ARE 7:00 A.M. TO 10:00 P.M. REQUESTS TO WORK BEYOND THESE HOURS MUST BE FILED WITH THE OWNER ONE WEEK IN ADVANCE.

<u>ABBREVIATIONS</u>												
4.000.01/												
_	APPROXIMATELY											
ARV	AIR RELEASE VALVE											
BFV	BUTTERFLY VALVE											
BM	BENCHMARK											
BOL												
DEPT												
DI	DUCTILE IRON											
DIA	DIAMETER											
DND	DO NOT DISTURB											
E .	EAST											
EA	EACH											
ESMT	_											
ELEC	ELECTRIC											
EL	ELEVATION											
EOL	END OF LINE											
ENGR												
ESC	EROSION AND SEDIMENT CONTROL											
FO	FIBER OPTIC											
GV	GATE VALVE											
HDPE												
HOR	HORIZONTAL											
LN	LANE											
LF	LINEAR FOOT											
LS	LUMP SUM											
MODOT	MISSOURI DEPT. OF TRANSPORTATION											
MJ	MECHANICAL JOINT											
N	NORTH											
NTS	NOT TO SCALE											

POLYVINYL CHLORIDE **POWER & CABLE POLE** PT **POWER & TELEPHONE POLE** PTC POWER, TELEPHONE, & CABLE POLE **PROJ** PROJECT RJ **RESTRAINED JOINT** R/W **RIGHT OF WAY SOUTH** SILT FENCE SANITARY SEWER SOLID SLEEVE COUPLING **STORM SEWER** SOUTHWEST **SQUARE YARD STA** STATION T/E TRASH ENCLOSURE **UTILITY EASEMENT** U.E. D.E. DRAINAGE EASEMENT S.E. SANITARY EASEMENT W.E. WATER MAIN EASEMENT UTIL UTILITY

WEST

POLYETHYLENE

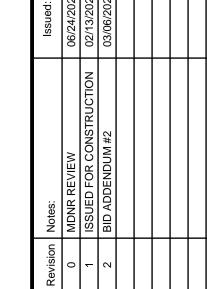
LEGEND **EXISTING PROPOSED** WATER VALVE WATER METER SANITARY SEWER MANHOLE POWER/TRAFFIC SIGNAL POLE FIRE HYDRANT TREE/LARGE BRUSH STORM INLET/JUNCTION BOX GAS METER ☐ MB MAIL BOX POWER POLE \varnothing PP POWER ANCHOR O PA SIDEWALK UNDERGROUND UTILITY MARKER O UGM

OHP	— OHP———	OVERHEAD ELECTRIC
UGE	– UGE	UNDERGROUND ELECTRIC
SAN	— SAN	SANITARY SEWER
	— W ———	WATER LINE —
STM	— STM———	STORM SEWER
——— G———	— G ———	UNDERGROUND GAS LINE
——— UGT———	— UGT——	UNDERGROUND TELEPHONE
FO	— FO	UNDERGROUND FIBER OPTIC
UGTV—		UNDERGROUND CABLE TV
		SECTION LINE
	RW	RIGHT-OF-WAY LINE

PE PE PE PE PERMANENT EASEMENT LINE

—— TCE—— TCE—— TEMPORARY EASEMENT LINE

P/L—P/L—LOT LINE



JACK

SUN



Drawn By: Checked By: KLA 02/22/2024 Project# 722

	1		
ITEM NO.	DESCRIPTION	<u>UNIT</u>	QUANTITY
1	MOBILIZATION	LUMP SUM	1
2	CLEARING AND GRUBBING	LUMP SUM	1
3	DEMOLITION AND REMOVAL	LUMP SUM	1
4	WATER LINE PIPE – 6" PVC	LINEAR FT.	1,547
5	WATER LINE PIPE – 6" HDPE	LINEAR FT.	2,581
6	WATER LINE PIPE – 8" PVC	LINEAR FT.	8,568
7	WATER LINE PIPE – 12" PVC	LINEAR FT.	1,793
8	LOWERING WATER MAIN - 6"	LINEAR FT.	33
9	LOWERING WATER MAIN - 8"	LINEAR FT.	116
10	LOWERING WATER MAIN - 12"	LINEAR FT.	40
11	WATER SERVICE LINE - COPPER (ALL SIZES)	LINEAR FT.	545
12	WATER SERVICE - RE-CONNECTIONS (ALL SIZES)	EACH	87
13	WATER METER WELL	EACH	44
14	WATER METER RELOCATION - REUSE EXISTING METER	EACH	7
15	WATER METER SETTER	EACH	7
16	WATER METERE RING AND COVER	EACH	46
17	WATER LINE VALVE – 4" GATE VALVE	EACH	1
18	WATER LINE VALVE - 6" GATE VALVE	EACH	23
19	WATER LINE VALVE - 8" GATE VALVE	EACH	24
20	WATER LINE VALVE – 12" BUTTERFLY OR GATE VALVE	EACH	9
21	WATER LINE VALVE - 20" BUTTERFLY	EACH	4
22	FIRE HYDRANT ASSEMBLY (WITH NEW HYDRANT) (SMALLER THAN 20" MAIN)	EACH	34
23	FIRE HYDRANT ASSEMBLY (WITH NEW HYDRANT) (20 " MAIN)	EACH	13
24	BLOWOFF ASSEMBLY	EACH	1
25	PAVEMENT REPAIR	SQ. YD.	901
26	DRIVEWAYS - CONCRETE RESIDENTIAL	SQ. YD.	25
27	DRIVEWAYS - CONCRETE COMMERCIAL	SQ. YD.	953
28	FENCE (ALL TYPES)	LINEAR FT.	12
29	CURB AND GUTTER (ALL TYPES)	LINEAR FT.	180
30	SIDEWALK - CONCRETE	SQ. YD.	1,438
31	ADA RAMPS - TYPE A	EACH	27
32	ADA RAMPS - TYPE B	EACH	7
33	SOD	SQ. YD.	9,336
34	EROSION CONTROL	LUMP SUM	1
35	TRAFFIC CONTROL	LUMP SUM	1

	<u></u>	PIPE INS	TALLATIC	ON SCHE	DULE					
SHEET	PROJECT LOCATION	STA.	TO STA.	<u>LENGTH</u>	PROPOSED PIPE	PIPE INSTALLATION				
5	JOHN KNOX RETIREMENT VILLAGE	1+00	2+07	107	8" PVC	TRENCH INSTALLATION				
5	JOHN KNOX RETIREMENT VILLAGE	4+37	11+76	739	8" FUSIBLE PVC	HDD				
1	1	/	/	1	1	1				
6	JOHN KNOX EAST COMMERCIAL DEVELOPMENT	1+00	1+75	75	6" PVC	TRENCH INSTALLATION				
6	JOHN KNOX EAST COMMERCIAL DEVELOPMENT	1+75	6" CERTALOK PVC	INSTALL THROUGH EXISTING CASING						
6	JOHN KNOX EAST COMMERCIAL DEVELOPMENT	3+30	6+13	283	6" PVC	TRENCH INSTALLATION				
1	I	/	/	/	1	/				
7	SUMMIT WOODS (#1)	1+00	2+10	110	8" CERTALOK PVC	INSTALL THROUGH EXISTING CASING				
7	SUMMIT WOODS (#1)	2+10	4+75	265	8" FUSIBLE PVC	HDD				
7	SUMMIT WOODS (#1)	4+75	9+17	442	8" PVC	TRENCH INSTALLATION				
7	SUMMIT WOODS (#1)	9+17	12+00	283	8" FUSIBLE PVC	HDD				
/	1	/	/	/	/	/				
8	SUMMIT WOODS (#2)	12+00	21+64	964	8" FUSIBLE PVC	HDD				
8	SUMMIT WOODS (#2)	21+64	21+84	20	8" PVC	TRENCH INSTALLATION				
8	SUMMIT WOODS (#2)	21+84	23+00	116	8" FUSIBLE PVC	HDD				
1	1	/	/	1	1	1				
9	SUMMIT WOODS (#3)	23+00	28+71	571	8" FUSIBLE PVC	HDD				
	1		/	/	/	/				
10	CEDAR CREEK - LINE A	1+00	5+70	470	6" HDPE	SLIPLINE				
1	J.	/	/	/	/	/				
11	CEDAR CREEK - LINE B	1+00	6+81	581	6" FUSIBLE PVC	HDD				
	I I	1	/	/	/	/				
12	CEDAR CREEK - LINE C-1	1+00	2+17	117	8" FUSIBLE PVC	HDD				
12	CEDAR CREEK - LINE C-1	2+17	2+96	79	8" FUSIBLE PVC	TRENCH INSTALLATION				
12	CEDAR CREEK - LINE C-1	2+17	12+00	904	8" FUSIBLE PVC	HDD				
12	CEDAR GREEN - LINE C- I	Z+90 	/	904	6 FUSIBLE FVC) /				
12	CEDAD OBEEK LINE C 2	42.00	20+17	047	O" FLICIDI E DVC	HDD				
13	CEDAR CREEK LINE C-2	12+00	/	817	8" FUSIBLE PVC	, HUU				
1.4	/ CEDAD CREEK LINE E	1.00	•	7	6" FUSIBLE PVC	/				
14	CEDAR CREEK - LINE B	1+00	3+63	263		HDD				
14	CEDAR CREEK - LINE D	1+00	3+25	225	8" FUSIBLE PVC	HDD ,				
1	NE COLDEDN DD (#4)	4.00	,	700	/ / / / / / / / / / / / / / / / / / /	TDENCH INSTALL ATION				
15	NE COLBERN RD (#1)	1+00	8+00	700	12" PVC	TRENCH INSTALLATION				
1	/ NE 001 PERM PR ((0)	/	/	/	/	, , , , , , , , , , , , , , , , , , ,				
16	NE COLBERN RD (#2)	8+00	14+20	620	12" PVC	TRENCH INSTALLATION				
/	/	/	/	/	/	7				
17	NE COLBERN RD (#3)	0+00	3+05	305	8" PVC	TRENCH INSTALLATION				
	1		/	/	/	/				
18	NE RICE RD	0+00	0+27	27	8" PVC	TRENCH INSTALLATION				
18	NE RICE RD	0+27	4+00	373	12" PVC	TRENCH INSTALLATION				
18	NE RICE RD	4+00	4+50	50	12" PVC	HDD				
18	NE RICE RD	4+50	5+00	50	12" PVC	TRENCH INSTALLATION				
1	/		/	1	1	1				
19	NE POLLARD ST	0+00	7+05	705	8" PVC	TRENCH INSTALLATION				
	l .		/	/	1	/				
20	SW MARKET ST (#1)	1+00	3+60	260	8" FUSIBLE PVC	HDD				
20	SW MARKET ST (#1)	3+60	5+40	180	8" PVC	TRENCH INSTALLATION / HDD				
20	SW MARKET ST (#1)	5+40	8+50	310	8" FUSIBLE PVC	HDD				
			/	/	/	/				
21	SW MARKET ST (#2)	8+50	14+32	582	8" FUSIBLE PVC	HDD				
	I		/	/	/	1				
24	SCHERER RD (WTR #1-1)	0+00	9+00	900	6" HDPE	SLIPLINE				
1	I	1	/	1	1	/				
25	SCHERER RD (WTR #1-2)	9+00	12+26	326	6" HDPE	SLIPLINE				
25	SCHERER RD (WTR #1-2)	12+26	12+53	27	6" HDPE	TRENCHINSTALLATION				
1	I	1	/	1	1	/				
26	SCHERER RD (WTR #2)	0+00	8+60	860	6" HDPE	SLIPLINE				
1	1	1	1	/	1	/				
27	SCHERER LN	1+00	6+77	577	8" PVC	TRENCH INSTALLATION				

- 1. THE PIPE INSTALLATION SCHEDULE INCLUDES TRENCHLESS INSTALLATION TO MINIMIZE SURFACE DISRUPTION AND RESTORATION. TRENCH EXCAVATION MAY BE REQUIRED IN AREAS WHERE USING TRENCHLESS INSTALLATION IS NOT POSSIBLE. IN THE EVENT TRENCH **EXCAVATION IS USED IN AN AREA SCHEDULED FOR TRENCHLESS** INSTALLATION, ALL ADDITIONAL COSTS SHALL BE COVERED BY THE CONTRACTOR INCLUDING BUT NOT LIMITED TO PAVEMENT REPAIR, DRIVEWAYS, CURB AND GUTTER, SIDEWALK, AND SOD.
- 2. WATER MAINS CROSSING A STORM SEWER OR SANITARY SEWER WITHIN 18 INCHES OF VERTICAL SEPARATION SHALL HAVE FUSED PIPE JOINTS AND MEGALUG STYLE RETAINER GLANDS AT ALL MECHANICAL JOINTS WITHIN 10 HORIZONTAL FEET FROM THE CROSSING.
- 3. WATER MAINS INSTALLED PARALLEL TO A STORM SEWER OR SANITARY SEWER WITHIN 10 FEET OF HORIZONTAL SPACING SHALL HAVE FUSED PIPE JOINTS AND MEGALUG STYLE RETAINER GLANDS AT ALL MECHANICAL JOINTS.
- 4. THE CONTRACTOR SHALL NOT SLIPLINE HDPE PIPE THROUGH A BEND **GREATER THAN 22.5 DEGREES.**
- 5. TEMPORARY WATER MAINS SHALL BE REQUIRED IN ALL AREAS WHERE EXISTING SERVICE LINES CONNECT TO WATER MAINS TO BE REPLACED BY CONTRACTOR.

/ision	vision Notes:	:penss
0	MDNR REVIEW	06/24/2024
1	ISSUED FOR CONSTRUCTION	02/13/2025
2	BID ADDENDUM #2	03/06/2025
·		
·		
·		

Revi

JACKSON COUNT

02/22/2024

SHEET	ADDRESS	METER SIZE	SERVICE LINE SIZE
5	1706 NW O'BRIEN ROAD		
5	1702 NW O'BRIEN ROAD	2"	2"
5	510 NW MURRAY ROAD	2"	2"
5	508 NW MURRAY ROAD	2"	2"
5	506 NW MURRAY ROAD	1.5"	1.5"
5	500 NW MURRAY ROAD	2"	2"
/	1	1	1
6	401 NW MURRAY ROAD	1"	1"
6	425 NW MURRAY ROAD	1"	1"
	1	1	/
7	1692 NW CHIPMAN ROAD	1"	1"
7	1688 NW CHIPMAN ROAD	2"	2"
7	1684 NW CHIPMAN ROAD	2"	2"
7	1664 NW CHIPMAN ROAD	2"	2"
7	1680 NW CHIPMAN ROAD	1"	1"
7	1680A NW CHIPMAN ROAD	2"	2"
7	1672 NW CHIPMAN ROAD	2"	2"
1	1	1	/
8	1640 NW CHIPMAN ROAD	2"	2"
8	1632 NW CHIPMAN ROAD	2"	2"
8	1600 NW CHIPMAN ROAD	2"	2"
1	1	1	1
10	301 SW WARD ROAD (1,2)	1"	1"
10	302 SW WARD ROAD	1"	1"
10	320 SW WARD ROAD (1,2)	1"	1"
1	1	1	1
11	1101 SW 3RD STREET (1,2)	1"	1"
11	300 SW WARD ROAD (1,2)	1.5"	1.5"
1	1	I	1
12	310 SW WARD ROAD	1.5"	1.5"
12	400 SW WARD ROAD	5/8" X 3/4"	3/4"
12	404 SW WARD ROAD (1,2)	5/8" X 3/4"	3/4"
12	406 SW WARD ROAD (1,2)	5/8" X 3/4"	3/4"
12	408 SW WARD ROAD (1,2)	5/8" X 3/4"	3/4"
12	410 SW WARD ROAD	5/8" X 3/4"	3/4"
12	412 SW WARD ROAD	5/8" X 3/4"	3/4"
12	418 SW WARD ROAD	5/8" X 3/4"	3/4"
12	418 SW WARD ROAD	5/8" X 3/4"	3/4"
12	418 SW WARD ROAD	5/8" X 3/4"	3/4"
12	422 SW WARD ROAD	5/8" X 3/4"	3/4"
12	424 SW WARD ROAD	5/8" X 3/4"	3/4"
1	/	I	/
13	428 SW WARD ROAD	5/8" X 3/4"	3/4"
13	430 SW WARD ROAD	5/8" X 3/4"	3/4"
13	432 SW WARD ROAD	5/8" X 3/4"	3/4"
13	434 SW WARD ROAD (2)	5/8" X 3/4"	3/4"
13	436 SW WARD ROAD	5/8" X 3/4"	3/4"
13	438 SW WARD ROAD	1"	1"
13	444 SW WARD ROAD (1,2,3,5)	1.5"	1.5"
13	450 SW WARD ROAD	1"	1"
13	330 SW WARD ROAD (1,2,3,5)	5/8" X 3/4"	 3/4"
13	330 SW WARD ROAD (1,2,3,3)	2"	3/4 2"
/ /	/	1	
/ 15	913 NE COLBERN ROAD (2)	2"	2"
	913 NE COLBERN ROAD (2)		
1	1	1	

SHEET	<u>ADDRESS</u>	METER SIZE	SERVICE LINE SI
18	1707 NE RICE ROAD (1,2)	5/8" X 3/4"	3/4"
18	1711 NE RICE ROAD	5/8" X 3/4"	3/4"
18	1711 NE RICE ROAD	2"	2"
18	1737 NE RICE ROAD	5/8" X 3/4"	3/4"
1	1	1	1
19	1725 NE RICE ROAD (1,2)	1"	1"
19	1725 NE RICE ROAD (1,2)	5/8" X 3/4"	3/4"
19	951 NE POLLARD STREET (1,2)	5/8" X 3/4"	3/4"
1	1	1	/
20	1831 SW MARKET STREET (1,2)	5/8" X 3/4"	3/4"
20	1825 SW MARKET STREET (1,2)	1"	1"
20	1820 SW MARKET STREET (1,2)	1"	1"
20	1819 SW MARKET STREET (1,2)	5/8" X 3/4"	3/4"
1	1	1	1
21	1808 SW MARKET STREET (1,2)	5/8" X 3/4"	3/4"
21	1813 SW MARKET STREET (1,2)	5/8" X 3/4"	3/4"
21	1807 SW MARKET STREET (1,2)	5/8" X 3/4"	3/4"
21	1801A SW MARKET STREET (4)	5/8" X 3/4"	
21	1801B SW MARKET STREET (1,2,5)	5/8" X 3/4"	— 3/4" DOUBLE SET
21	1800 SW MARKET STREET (1,2)	1"	1"
21	1803 SW MARKET STREET (1,2)	1"	1"
1	1	1	1
23	2150 SW SCHERER ROAD (1,2)	2"	2"
23	2150 SW SCHERER ROAD (1,2)	6"	6"
23	2050 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
23	1701 SW SCHERER ROAD (1,2)	1"	1"
23	1301 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
23	1301 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
23	1201 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
1	/	/	1
24	2937 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
24	2927 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
24	2919 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
24	2911 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
24	2903 SW SCHERER ROAD (4, 6)	5/8" X 3/4"	3/4" DOUBLE SET
24	2903 SW SCHERER ROAD (1,2,5)	5/8" X 3/4"	3/4 DOOBLE SET
24	2841 SW SCHERER ROAD (4, 6)	5/8" X 3/4"	3/4" DOUBLE SET
24	2841 SW SCHERER ROAD (1,2,5)	5/8" X 3/4"	
24	2831 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
1	1	/	1
25	2821 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
25	2807 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
1	1	1	/
26	1907 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
26	1825 SW SCHERER ROAD (1,2)	5/8" X 3/4"	3/4"
			

- NOTES:
 (1) INDICATES WATER METER WELL TO BE REMOVED AND REPLACED.
- (2) INDICATES WATER METER RING AND COVER TO BE REMOVED AND REPLACED.
- (3) INDICATES WATER METER WELL TO BE RELOCATED.
- (4) INDICATES RELOCATION OF TWO WATER METERS FROM A DOUBLE SETTER TO TWO NEW METER WELLS.
- (5) INDICATES WATER METER SETTER IS TO BE REMOVED AND REPLACED.
- (6) INDICATES THE SECOND SERVICE TAP IN THE EXISTING DOUBLE SETTER IS UNUSED. RELOCATE ONE METER TO A NEW METER WELL.

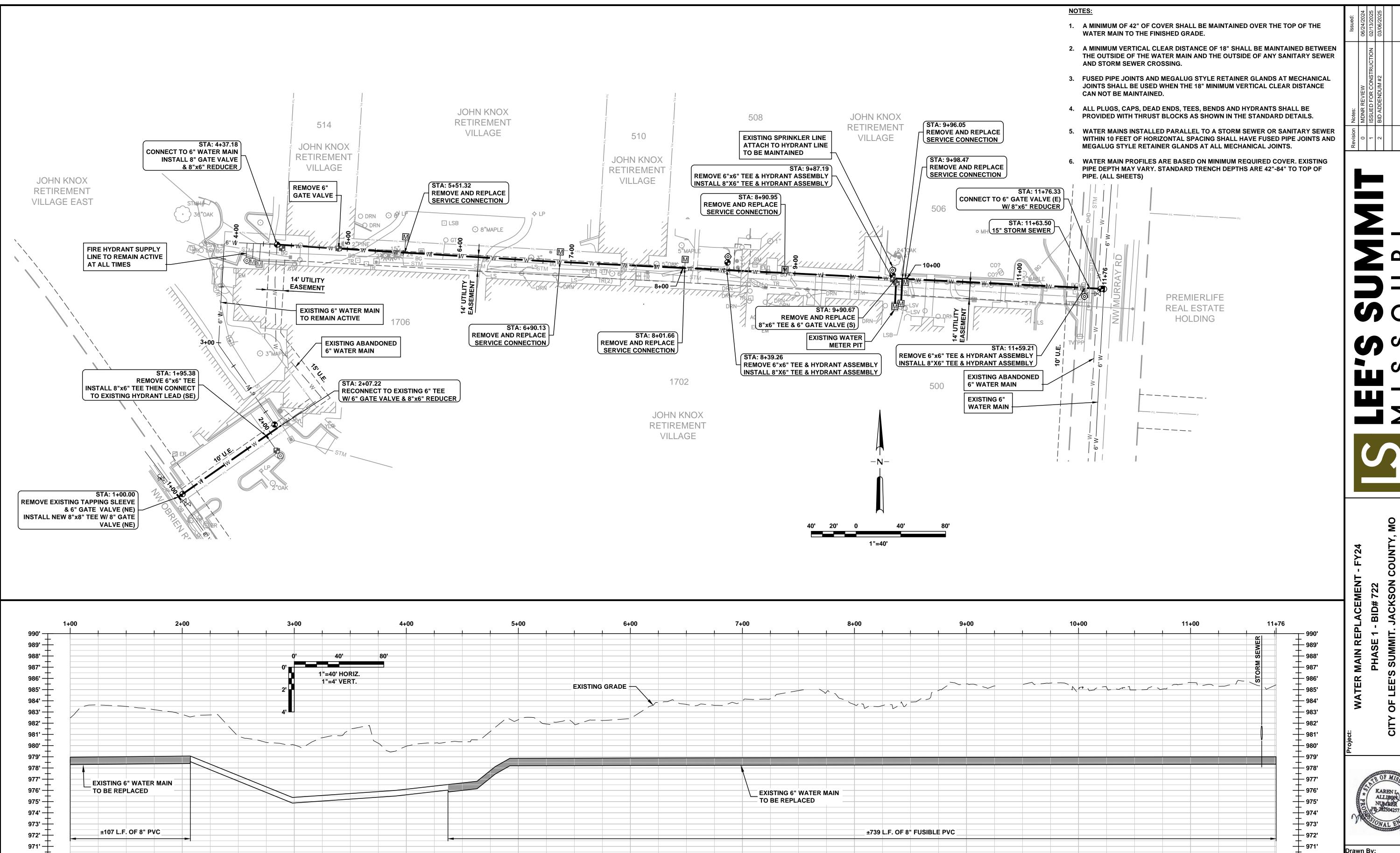
	Revision Notes:	Notes:	Issued
	0	MDNR REVIEW	06/24/20
	1	ISSUED FOR CONSTRUCTION	02/13/20
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∑ JACKSON COUNT

LEE'S SUMMIT.

KAREN L ALLISON NUMBER PB-2023042571

02/22/2024



JOHN KNOX RETIREMENT VILLAGE

8+00

10+00

970' —

2+00

3+00

4+00

5+00

JACKSON COUNT SUMMIT.

OF CITY

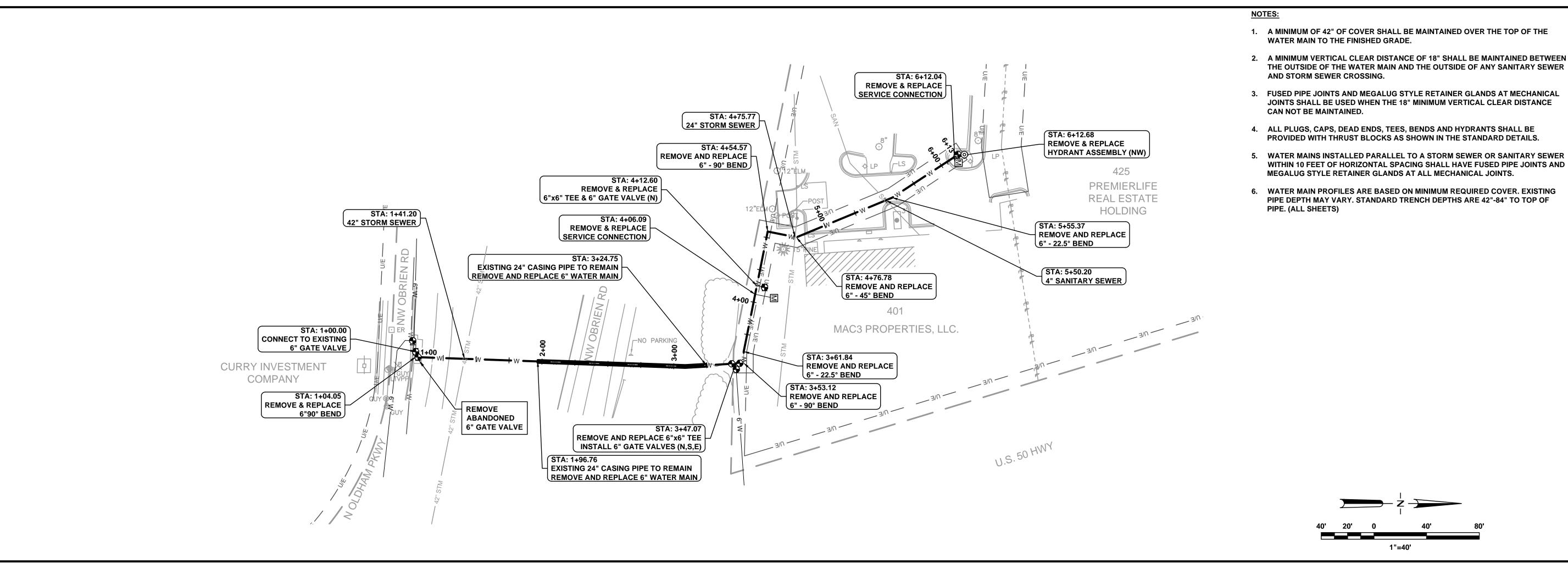


Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722

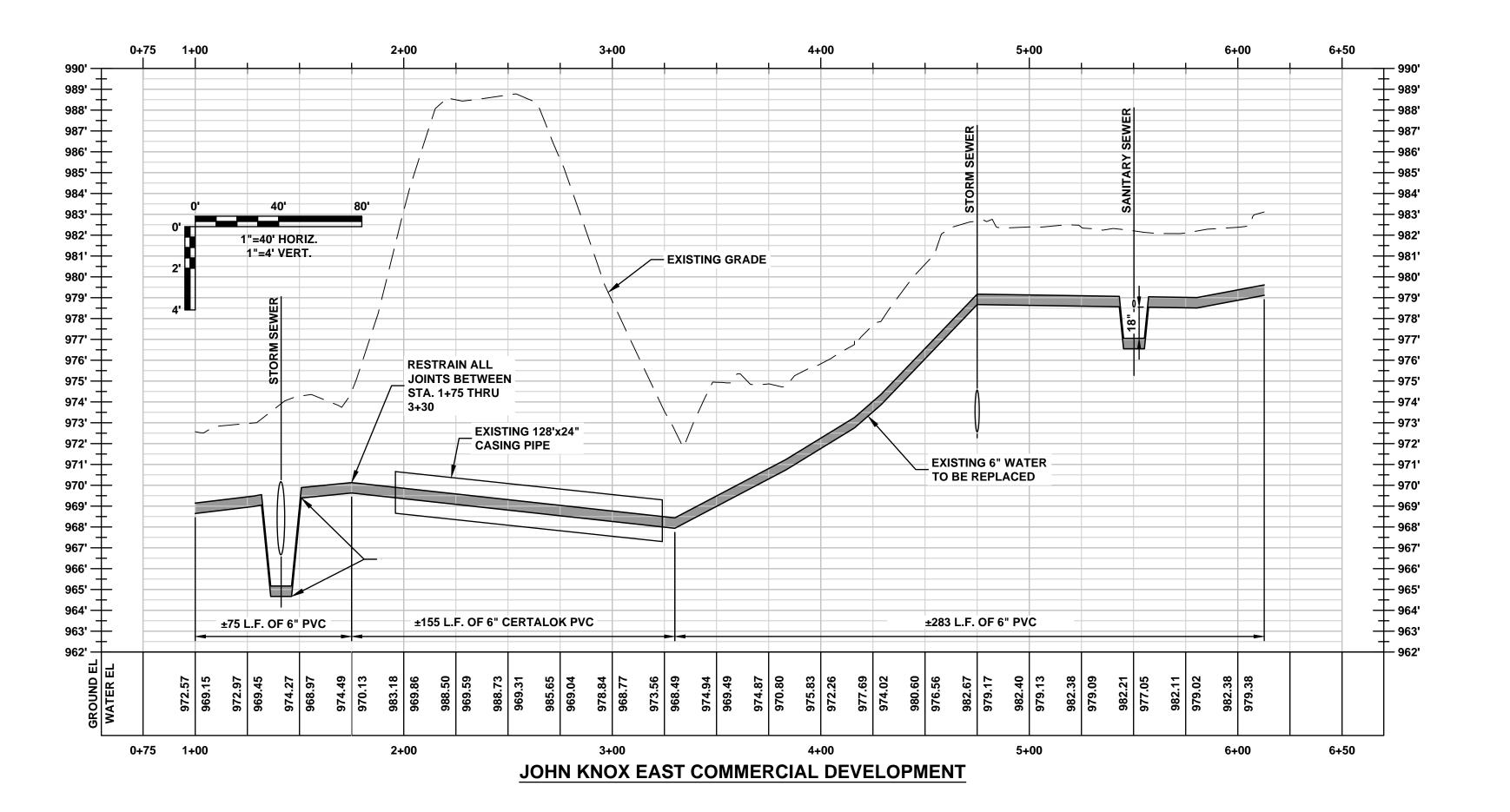
970'

11+76

11+00

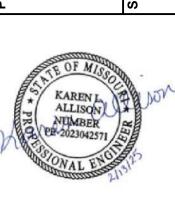


- 2. A MINIMUM VERTICAL CLEAR DISTANCE OF 18" SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY SANITARY SEWER
- 3. FUSED PIPE JOINTS AND MEGALUG STYLE RETAINER GLANDS AT MECHANICAL JOINTS SHALL BE USED WHEN THE 18" MINIMUM VERTICAL CLEAR DISTANCE
- WITHIN 10 FEET OF HORIZONTAL SPACING SHALL HAVE FUSED PIPE JOINTS AND MEGALUG STYLE RETAINER GLANDS AT ALL MECHANICAL JOINTS.
- 6. WATER MAIN PROFILES ARE BASED ON MINIMUM REQUIRED COVER. EXISTING PIPE DEPTH MAY VARY. STANDARD TRENCH DEPTHS ARE 42"-84" TO TOP OF

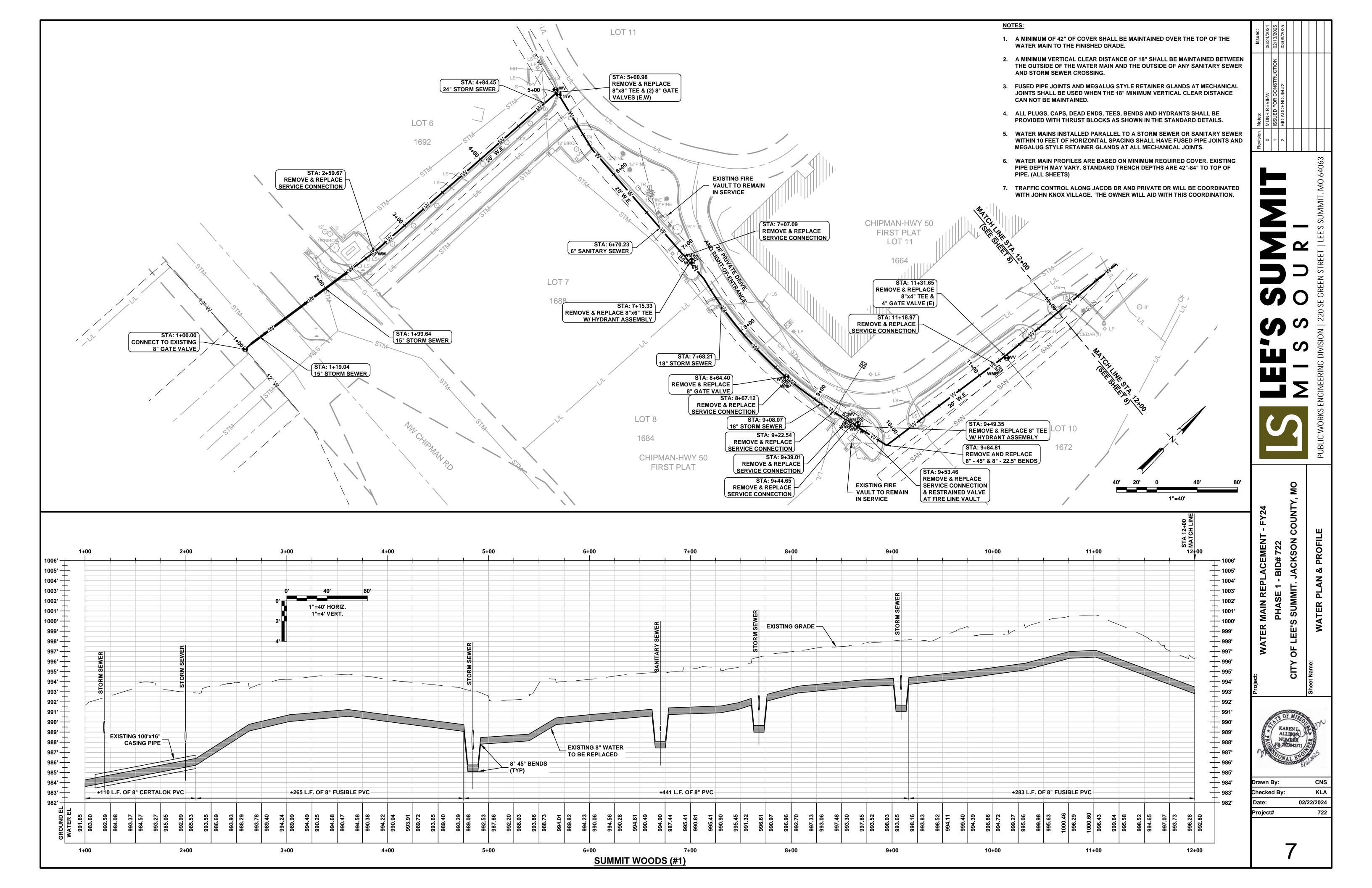


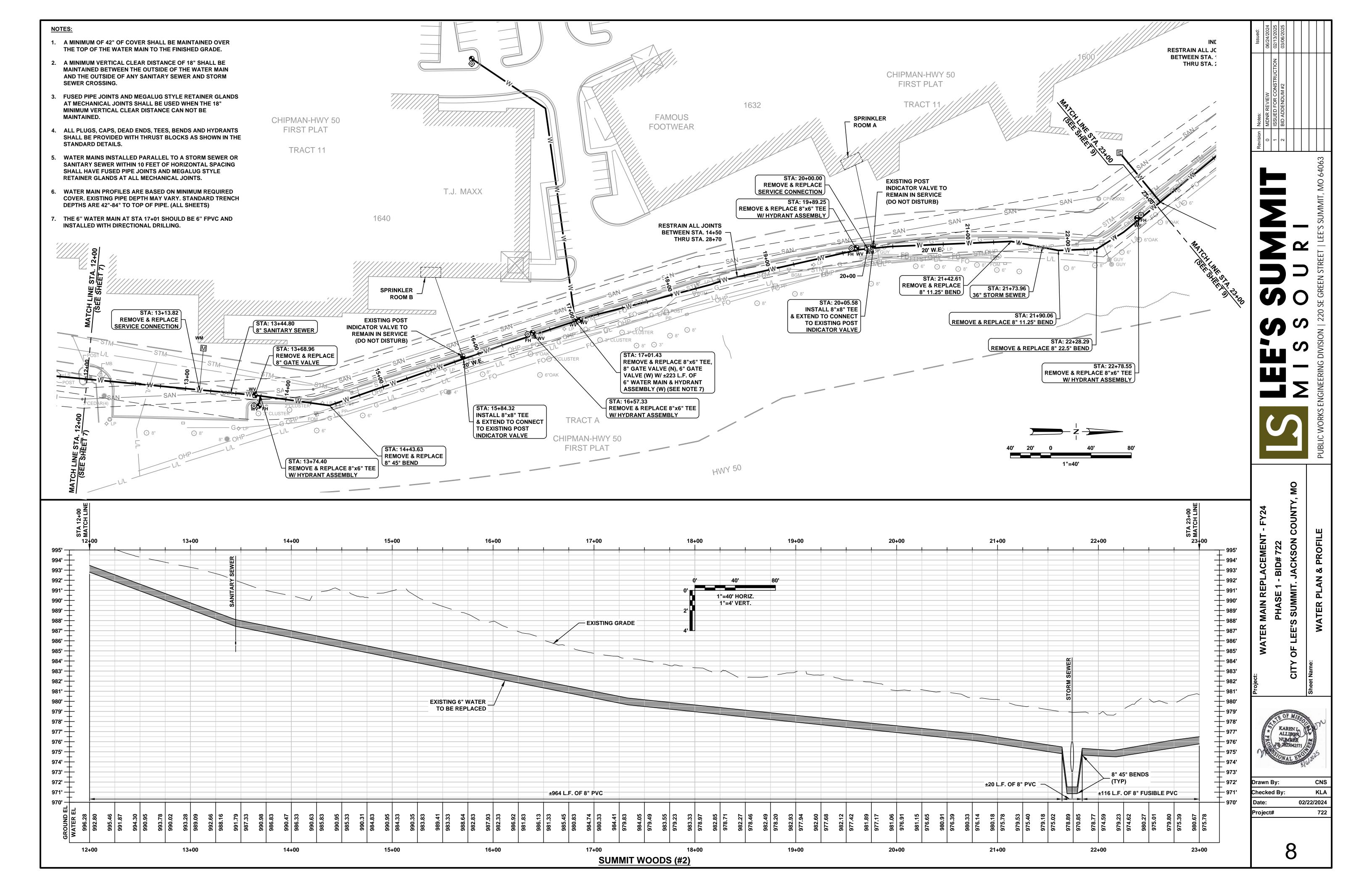
∑ JACKSON COUNT

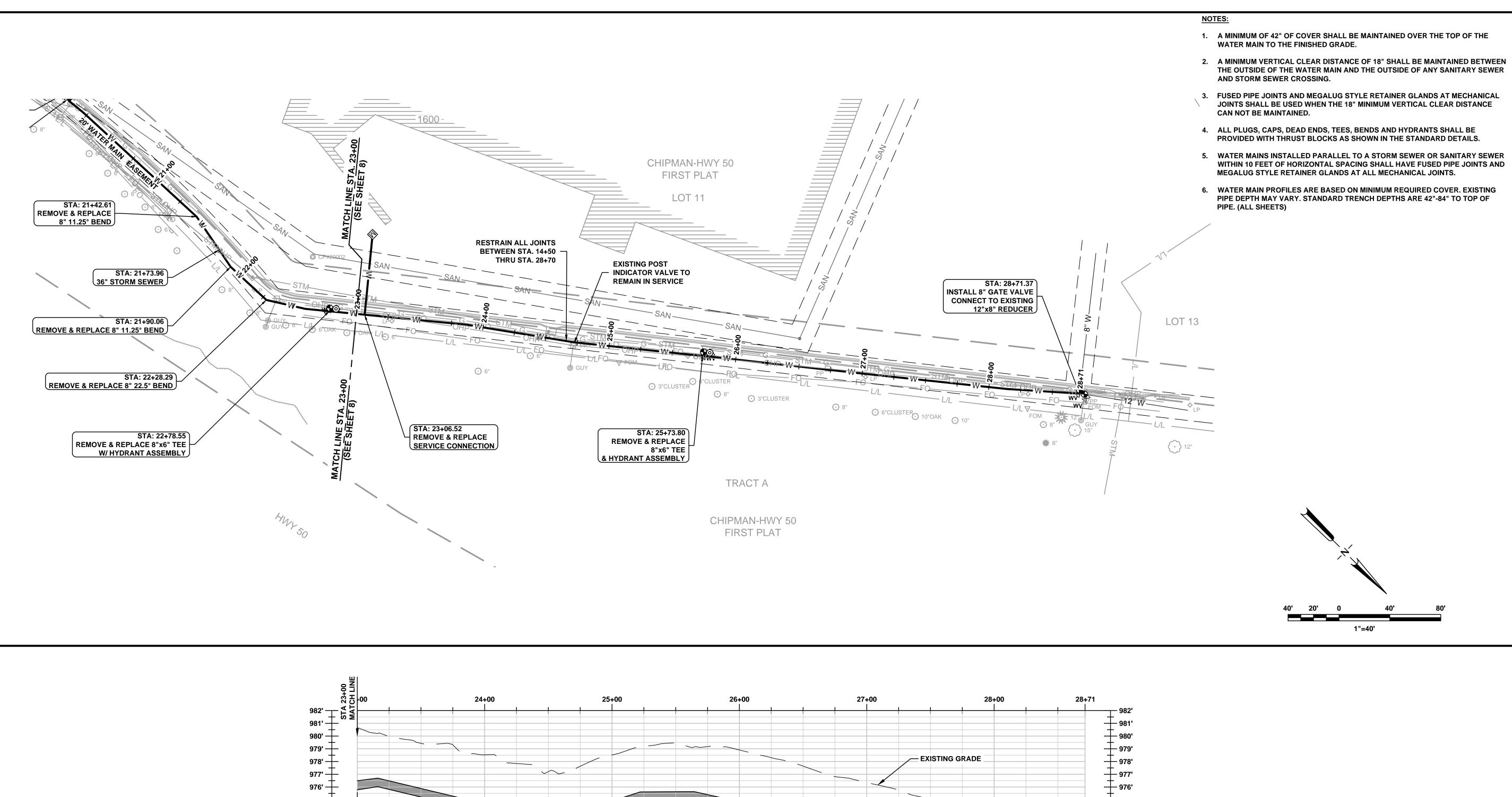
SUMMIT. CITY

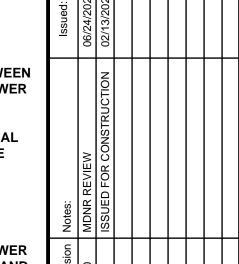


Drawn By: 02/22/2024









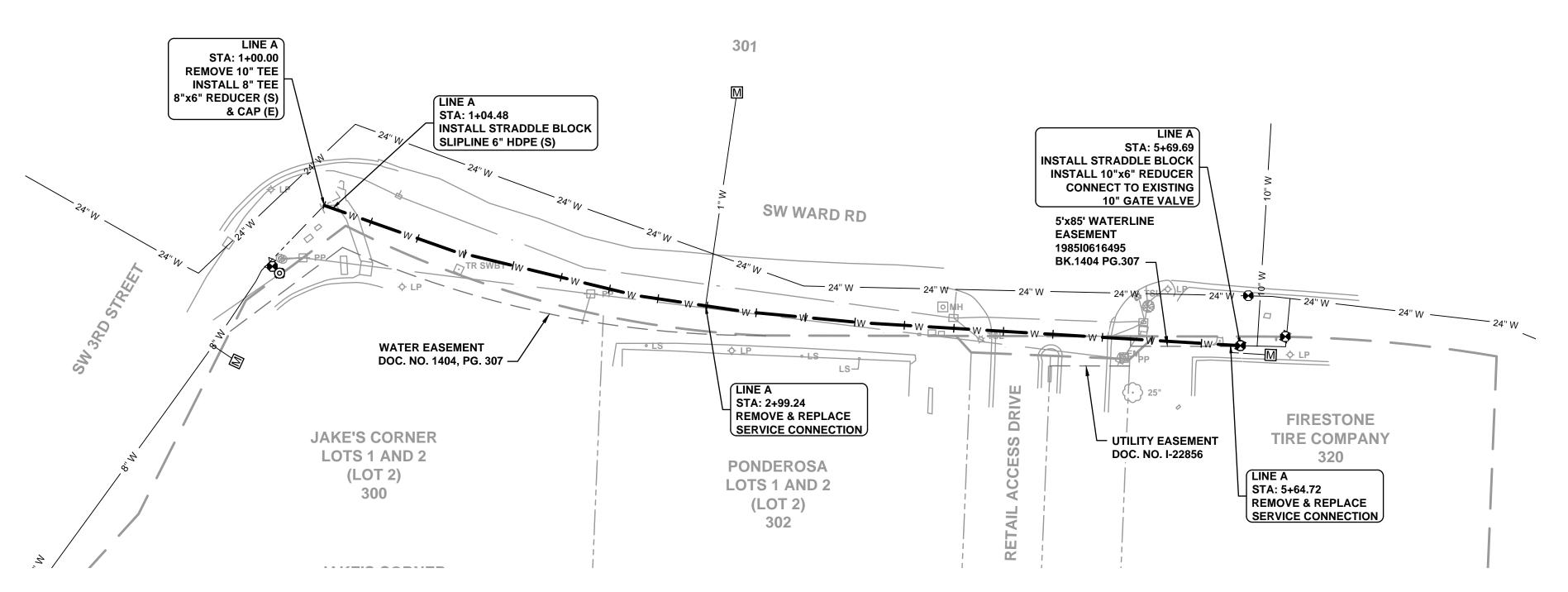
oject:
WATER MAIN REPLACEMENT - FY
PHASE 1 - BID# 722
CITY OF LEE'S SUMMIT. JACKSON COL

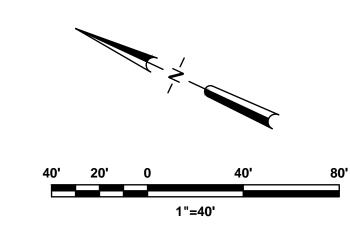
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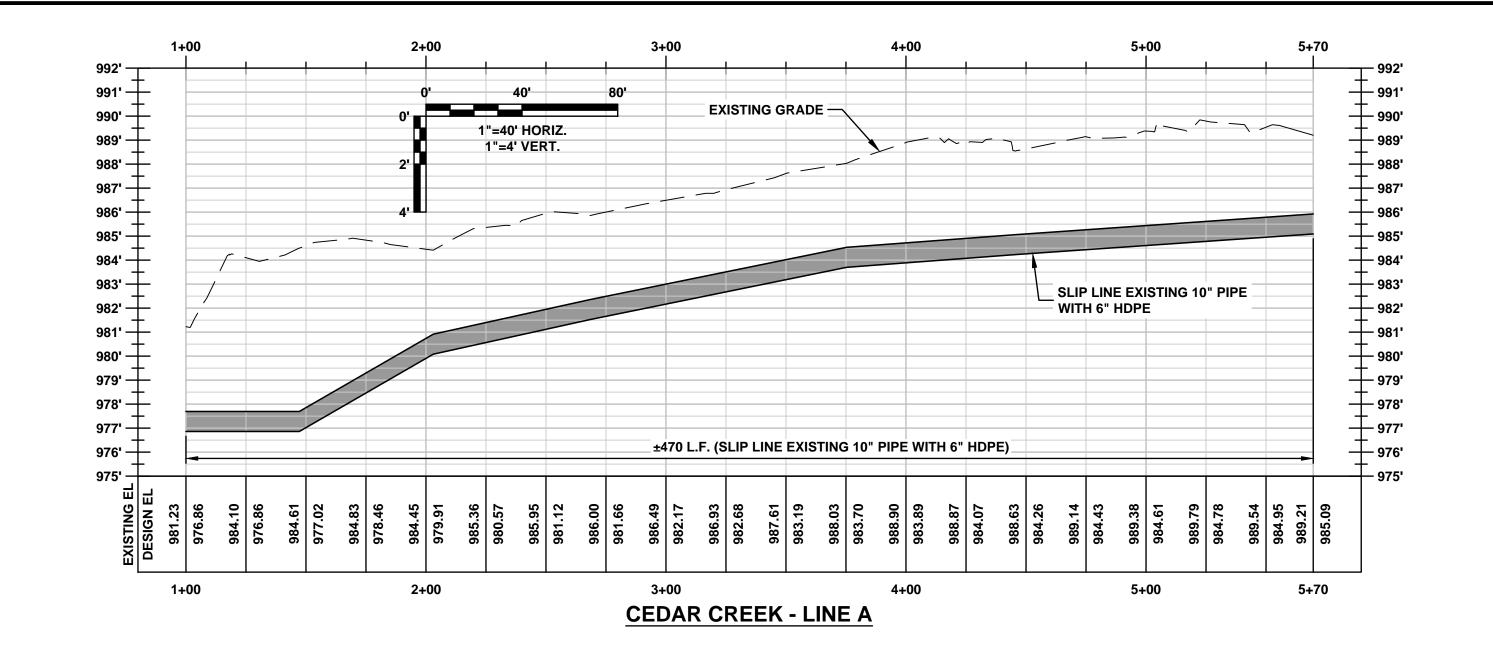
Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722

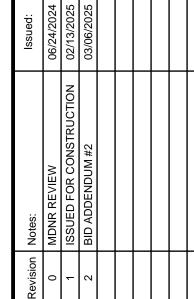
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WATER EL 980.67	975.78	979.98	975.82	979.43	975.22	979.31	974.62	978.53 974.02	977 85	973.42	977.21	972.89	977.63	973.41	978.52	974.	979.18	974.95	979.47	974.96	979.17	974.74	978.91	974.18	978.31	973.62	977.64	973.06	976.82	972.51	929.36	971.95	975.76	971.39	975.08	970.84	974.62	970.28	974.04	969.72	973.35	969.16	972.88	968.47	
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23+	רטט							24+00	١						25+	-00							26	+00							27+	-00							28+	.00				29	3+71

- 1. A MINIMUM OF 42" OF COVER SHALL BE MAINTAINED OVER THE TOP OF THE WATER MAIN TO THE FINISHED GRADE.
- 2. A MINIMUM VERTICAL CLEAR DISTANCE OF 18" SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY SANITARY SEWER AND STORM SEWER CROSSING.
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- 4. ALL PLUGS, CAPS, DEAD ENDS, TEES, BENDS AND HYDRANTS SHALL BE PROVIDED WITH THRUST BLOCKS AS SHOWN IN THE STANDARD DETAILS.
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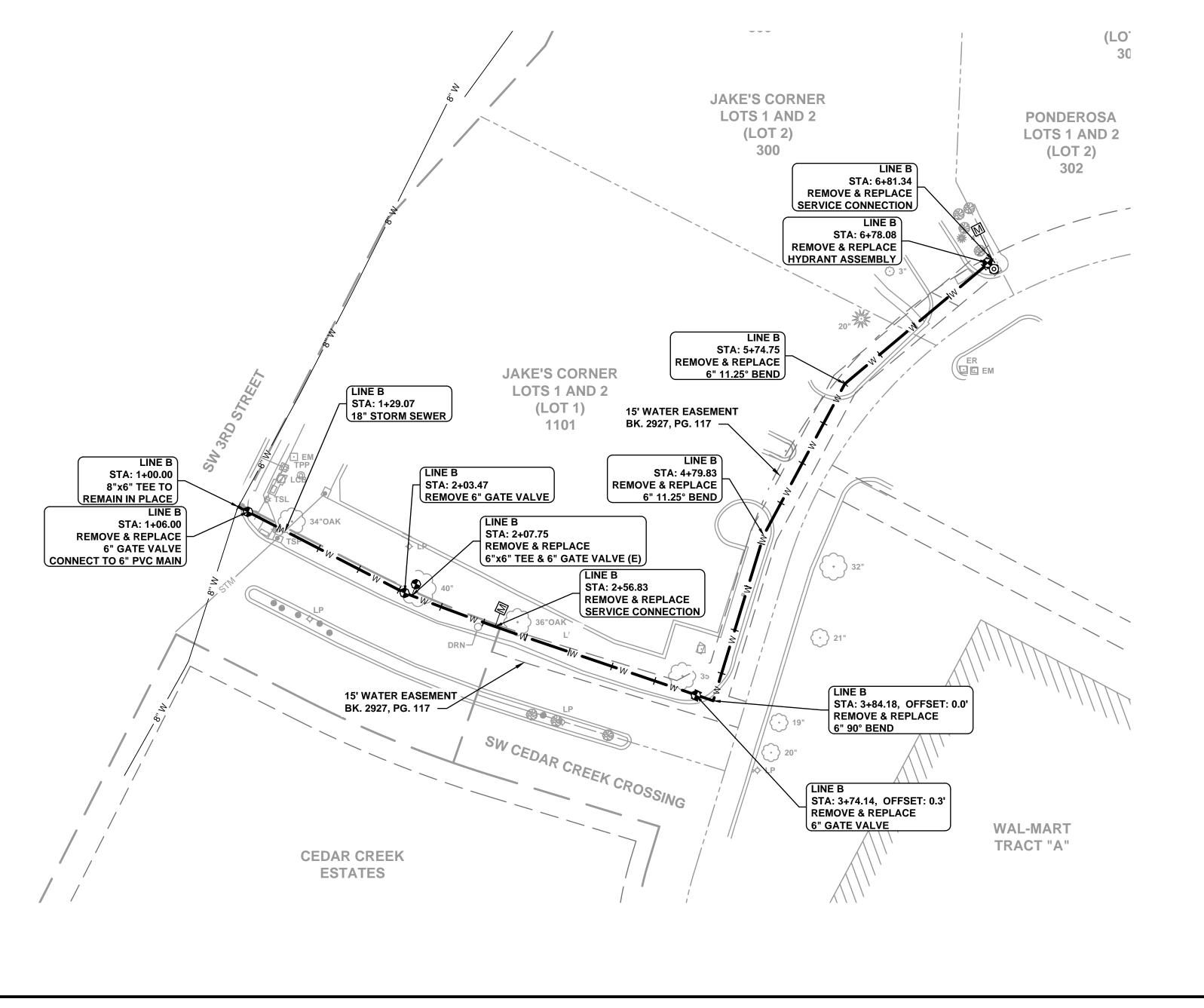


E 1 - BID# 722 MIT. JACKSON COUNTY, MC

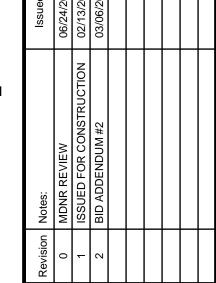
PHASE 1 - BID# OF LEE'S SUMMIT. JACK

KAREN LALLISON NUMBER PB-2023042571

Drawn By: CNS
Checked By: KLA
Date: 02/22/2024
Project# 722



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DESUBBIS SUMMIT, MO 64063

PHASE 1 - BID# 722 LEE'S SUMMIT. JACKSON COUNT

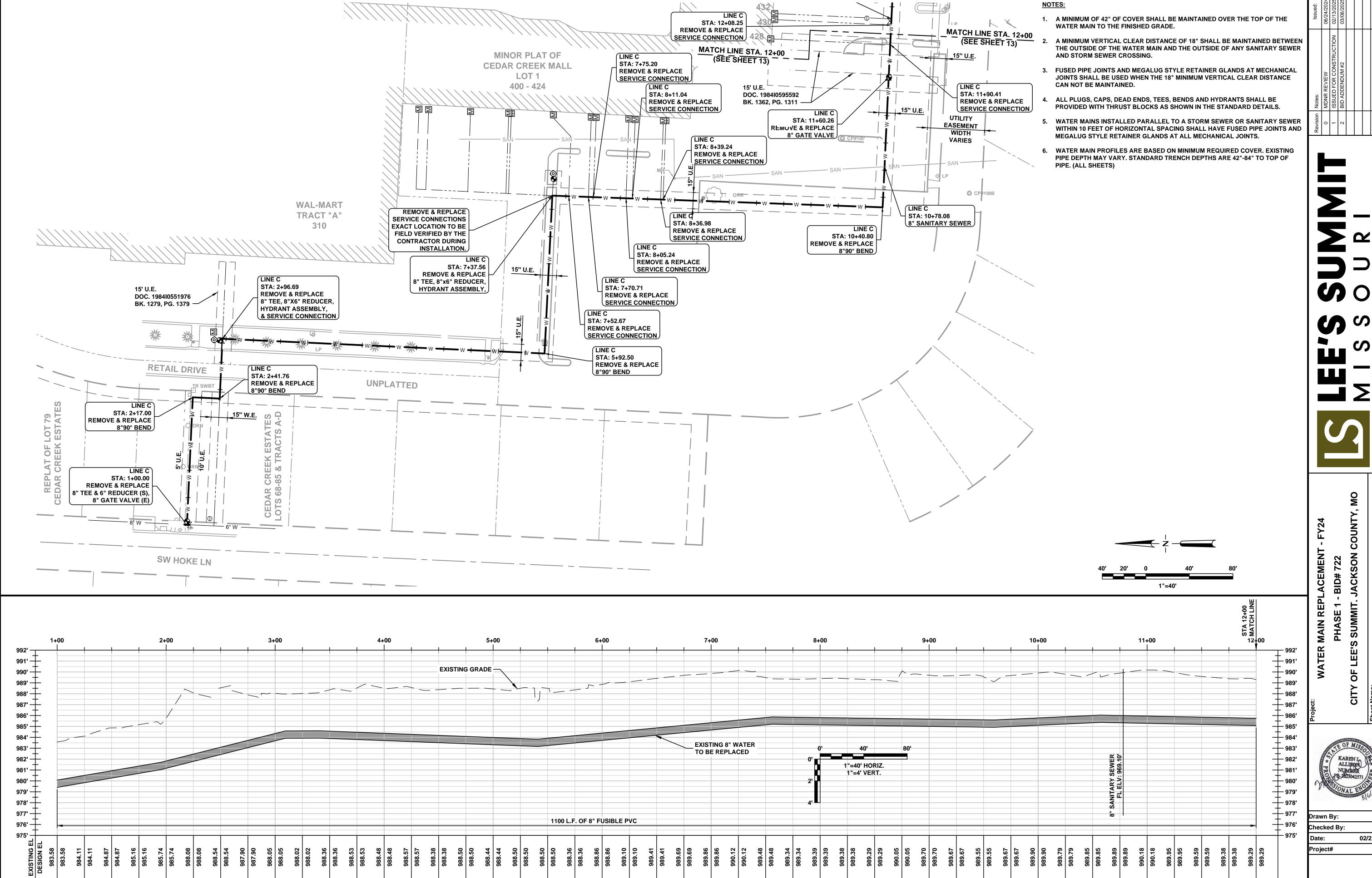
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water main replacemen PHASE 1 - BID# 722

> KAREN L * ALLISON *

Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722

1+00	2+00	3+00	4+00	5+00	6+00	6+81
18" STORM SEWER (FL TO BE VERIFIED)	EXISTING GR	ADE				
			EXISTING 6" WATER TO BE REPLACED	0" 1"=40"	HORIZ. VERT.	
			±581 L.F. OF 6" FUSIBLE PVC	41		
985.24 985.24 981.09 985.45 981.38 986.15	986.61 982.12 986.95 982.49 987.33	983.22 983.22 988.74 984.27 989.02	989.46 985.05 989.36 985.27 985.36 985.20	985.05 989.68 984.89 988.85 984.78	988.68 984.64 989.10 988.70 988.68 988.68	988.07 983.99 988.19 983.88
1+00	2+00	3+00	4+00	5+00	6+00	6+81



CEDAR CREEK - LINE C-1

8+00

10+00

11+00

2+00

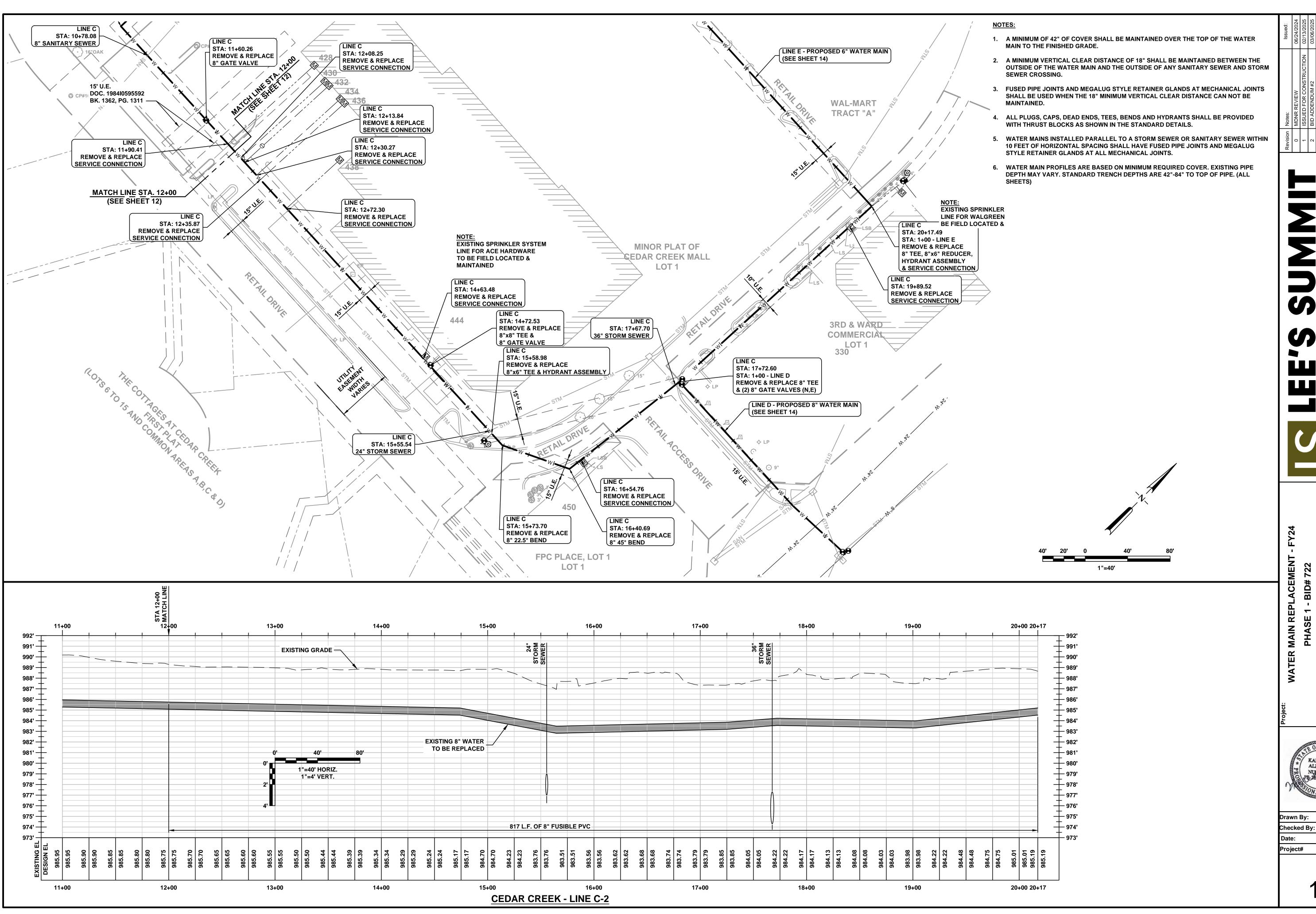
3+00

5+00

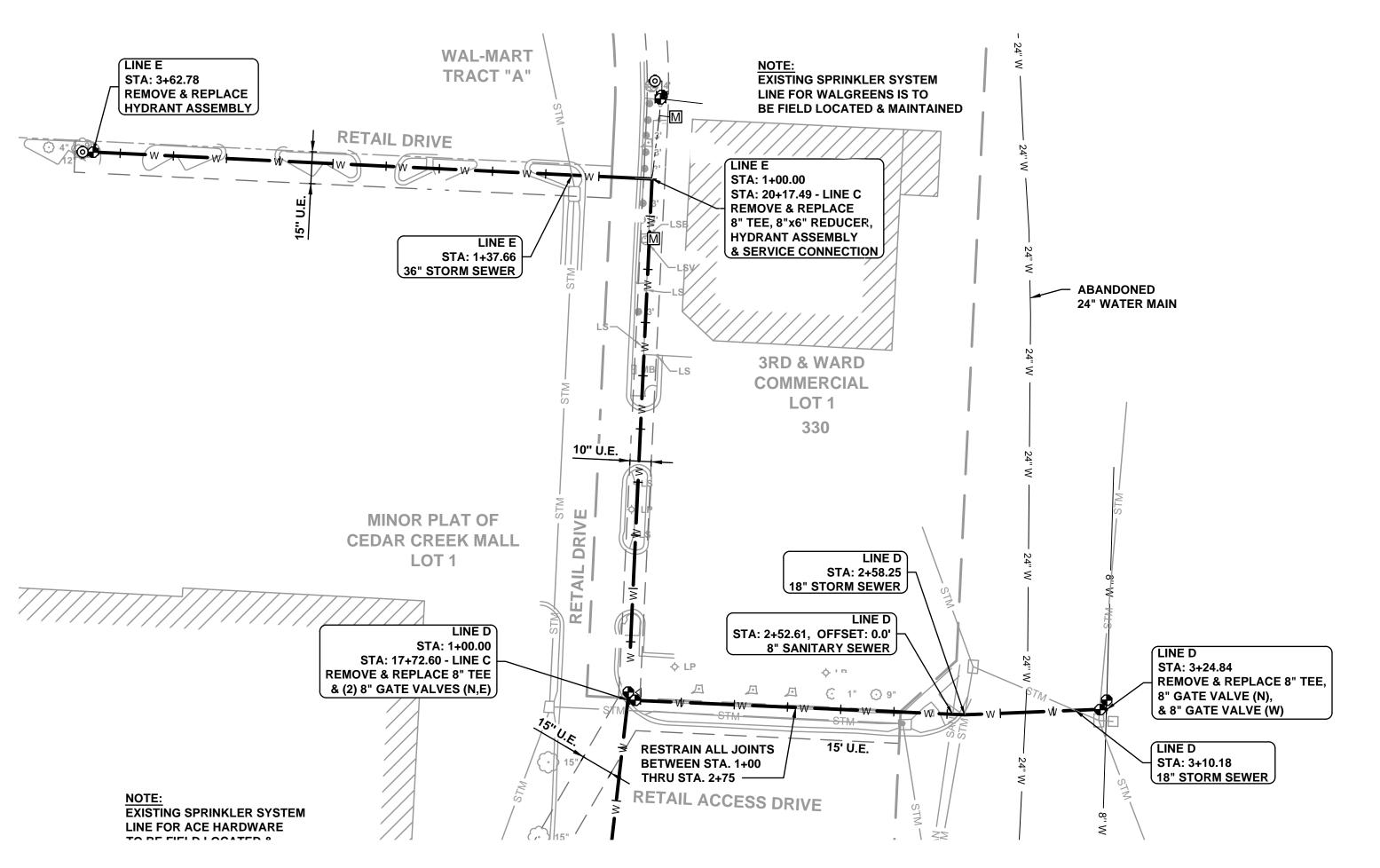


KLA 02/22/2024

12+00



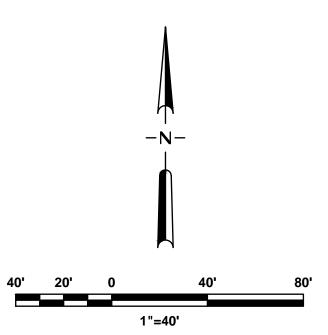
02/22/2024

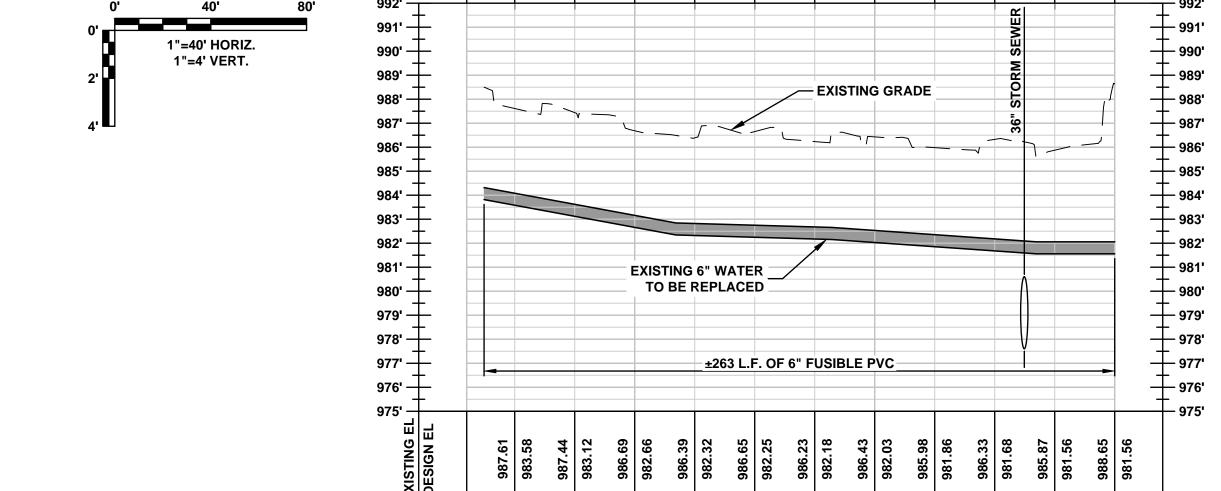


1+00

NOTES:

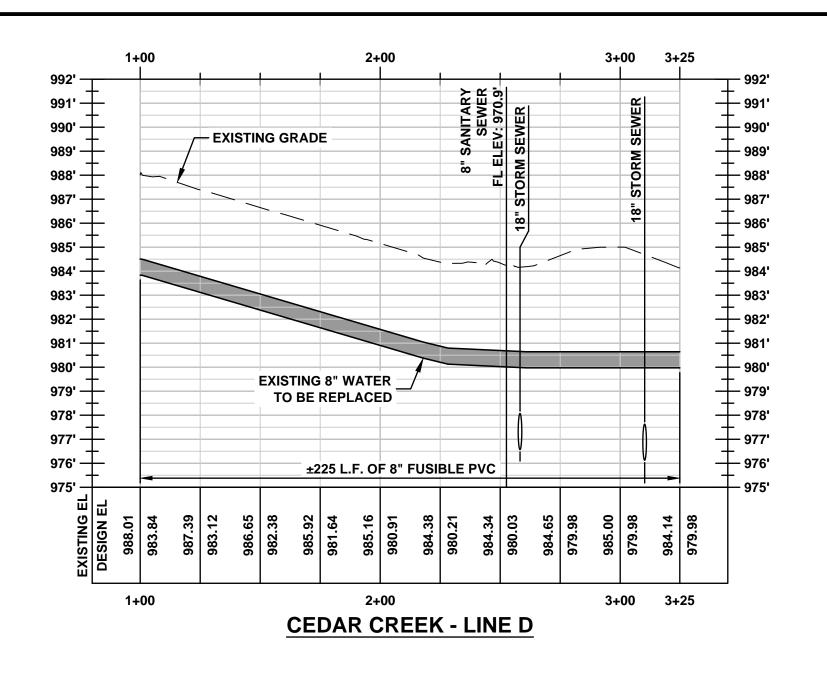
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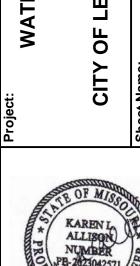




CEDAR CREEK - LINE E

3+70





	21
Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722

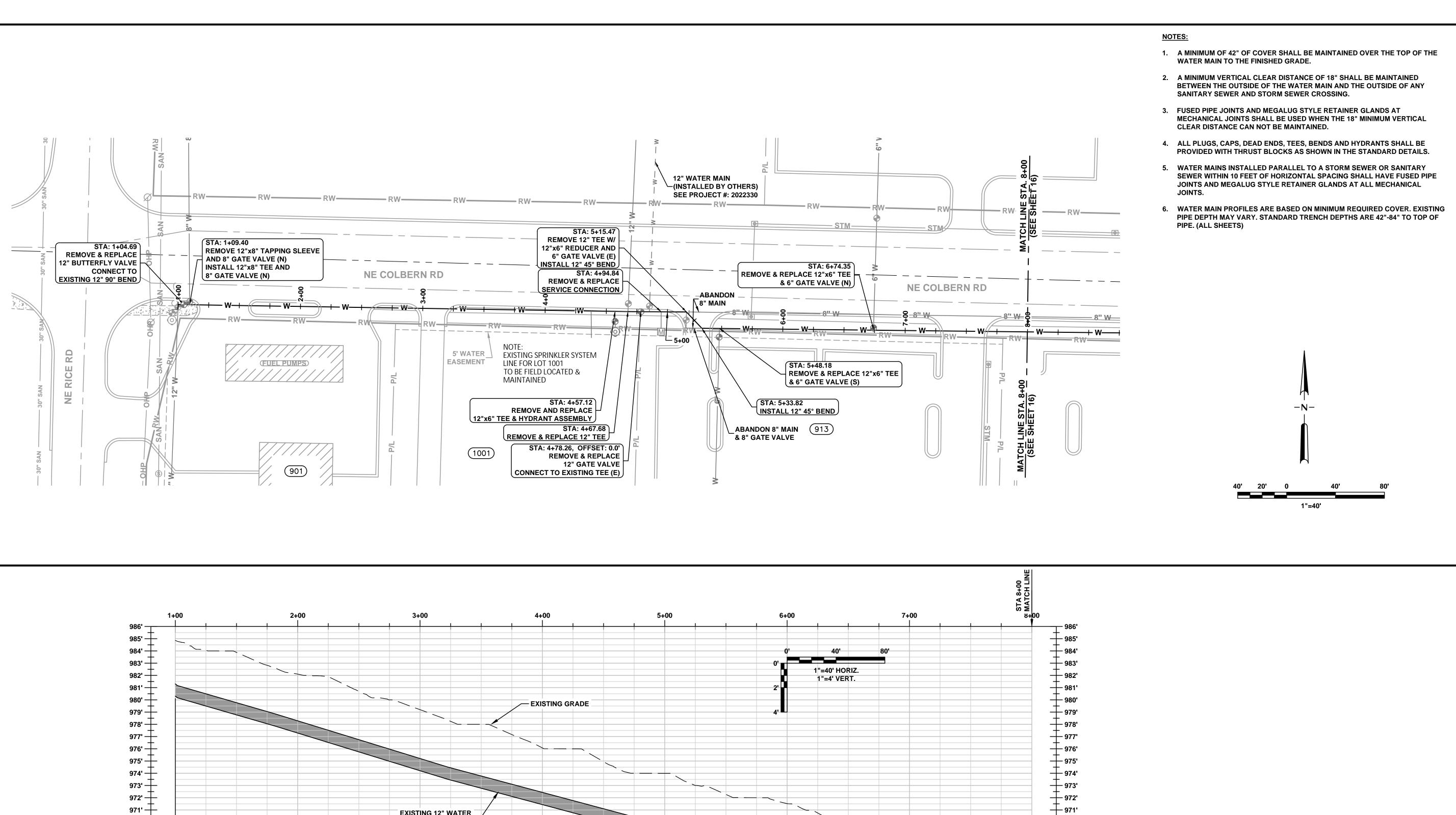
14

JACKSON COUNT

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SUMMIT.

KAREN L ALLISON NUMBER PB-202304257



EXISTING 12" WATER TO BE REPLACED

3+00

±700 L.F. OF 12" PVC

NE COLBERN RD (#1)

970' +

969' +

968' +

966' ---

964' 井 963' +

962' +

960' —

959' —

2+00

+ 971'

----- 970'

969'

967'

_ — 966'

963' --- 962'

960'

959'

8+00

969.43 964.44 968.54 963.70

7+00

972.00

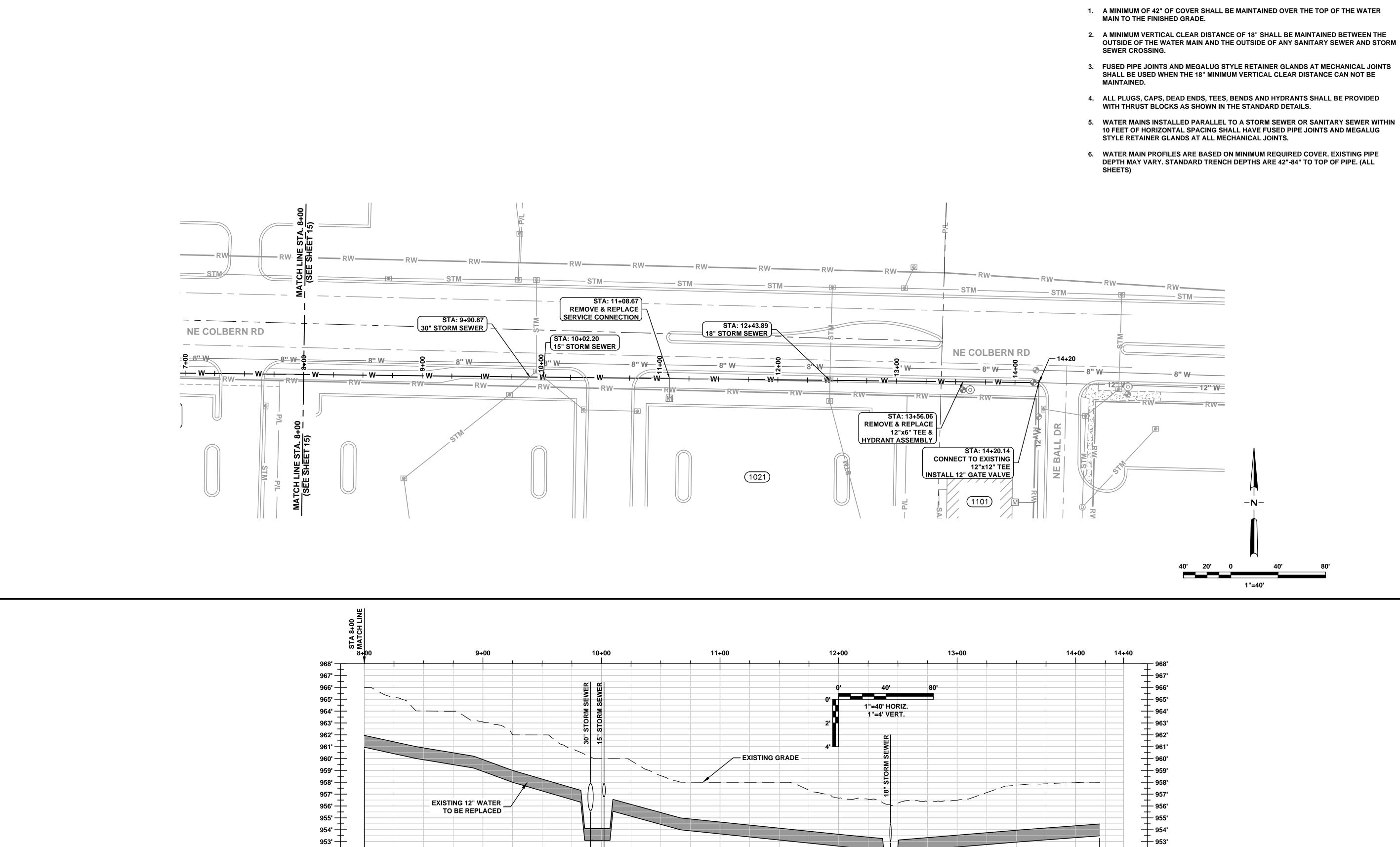
JACKSON COUNT SUMMIT.

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CITY

KAREN L ALLISON NUMBER Q. PP-2023042571

02/22/2024



±620 L.F. OF 12" PVC

NE COLBERN RD (#2)

12+00

11+00

10+00

952' —

951'

950'

949'

NOTES:

952'

951'

950'

949'

14+40

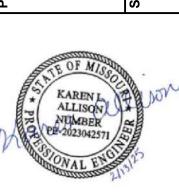
14+00

13+00

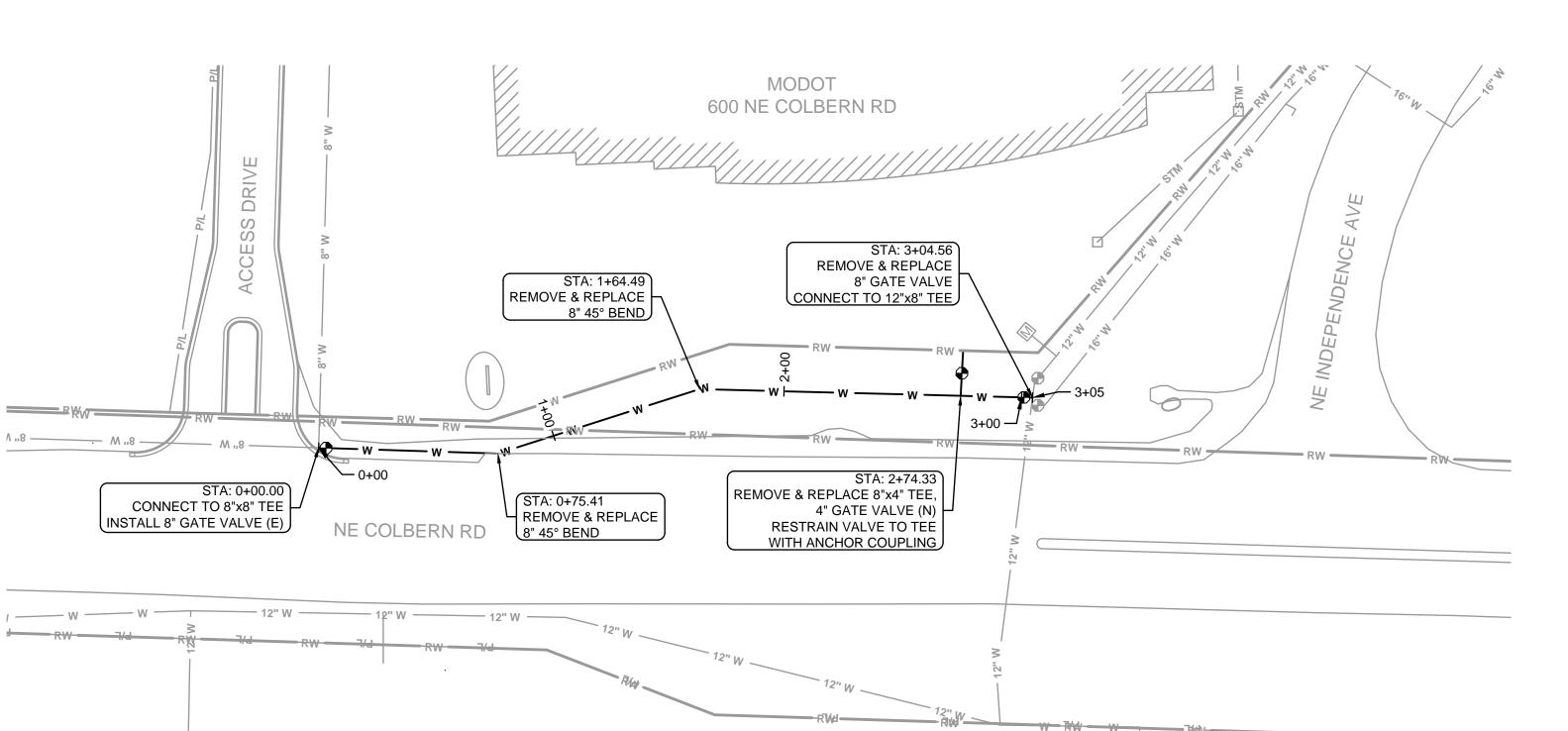
JACKSON COUNT SUMMIT.

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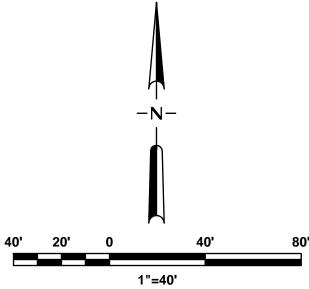
CITY



Drawn By: KLA Checked By: 02/22/2024



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- 4. ALL PLUGS, CAPS, DEAD ENDS, TEES, BENDS AND HYDRANTS SHALL BE PROVIDED WITH THRUST BLOCKS AS SHOWN IN THE STANDARD DETAILS.
- 5. WATER MAINS INSTALLED PARALLEL TO A STORM SEWER OR SANITARY SEWER WITHIN 10 FEET OF HORIZONTAL SPACING SHALL HAVE FUSED PIPE JOINTS AND MEGALUG STYLE RETAINER GLANDS AT ALL MECHANICAL JOINTS.
- 6. WATER MAIN PROFILES ARE BASED ON MINIMUM REQUIRED COVER. EXISTING PIPE DEPTH MAY VARY. STANDARD TRENCH DEPTHS ARE 42"-84" TO TOP OF PIPE. (ALL SHEETS)





∑

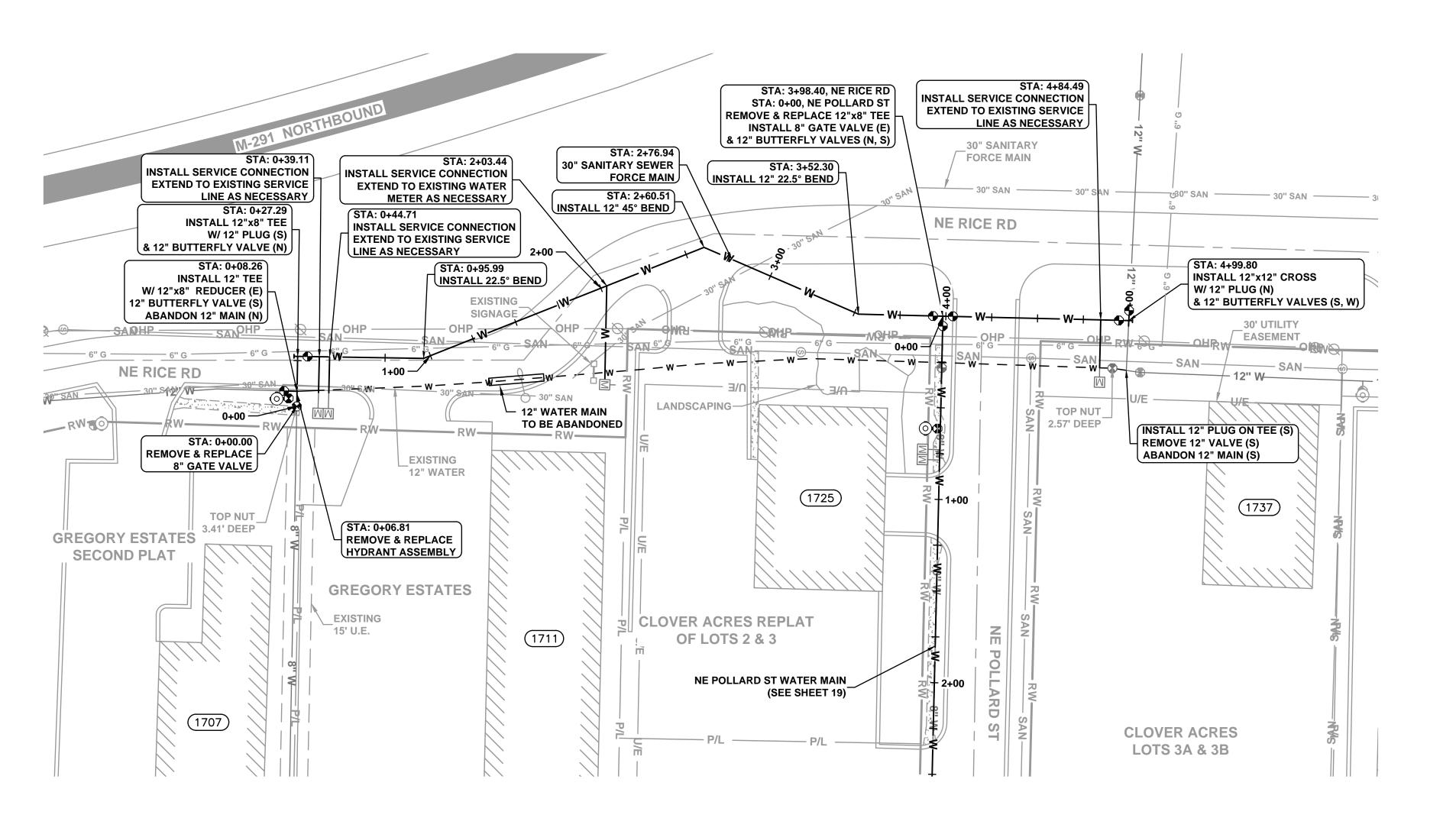
JACKSON COUNT

LEE'S SUMMIT.

02/22/2024

0+00	1+00	2+00	3+00 3+15
1030'		E	1030' KISTING 1029'
1028'		G	RADE1028'
1027'			1027'
1026'			+
1025'			1025'
1024'			——————————————————————————————————————
1022'	EXISTING 8" WATER		1022'
1021'	TO BE REPLACED		1021'
1020' —			1020'
1019'	±305 L.F	OF 8" PVC	1019'
1018'			1018'
ROUND E VATER E 1028.87 1024.70 1024.50	1028.00 1024.50 1024.49 1024.49 1024.49 1024.49	1024.49 1027.50 1024.10 1026.70 1023.08 1022.63 1022.63	1022.12 1024.92 1021.07 1024.00
GROUND EL WATER EL 1028.87 1024.70 1028.00	102 102 102 102 102 102 102	102 102 102 102 102 102 102	102 102 102 103
0+00	1+00	2+00	3+00 3+15
	NE COLE	BERN RD (#3)	

1"=40' HORIZ. 1"=4' VERT.



- 1. A MINIMUM OF 42" OF COVER SHALL BE MAINTAINED OVER THE TOP OF THE WATER MAIN TO THE FINISHED GRADE.
- 2. A MINIMUM VERTICAL CLEAR DISTANCE OF 18"
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Revision Notes:

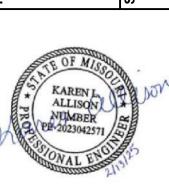
0 MDNR REVIEW
0 66/24/20
1 ISSUED FOR CONSTRUCTION 02/13/20

SESSOUR SESSOU

PHASE 1 - BID# 722 F LEE'S SUMMIT. JACKSON COUNT

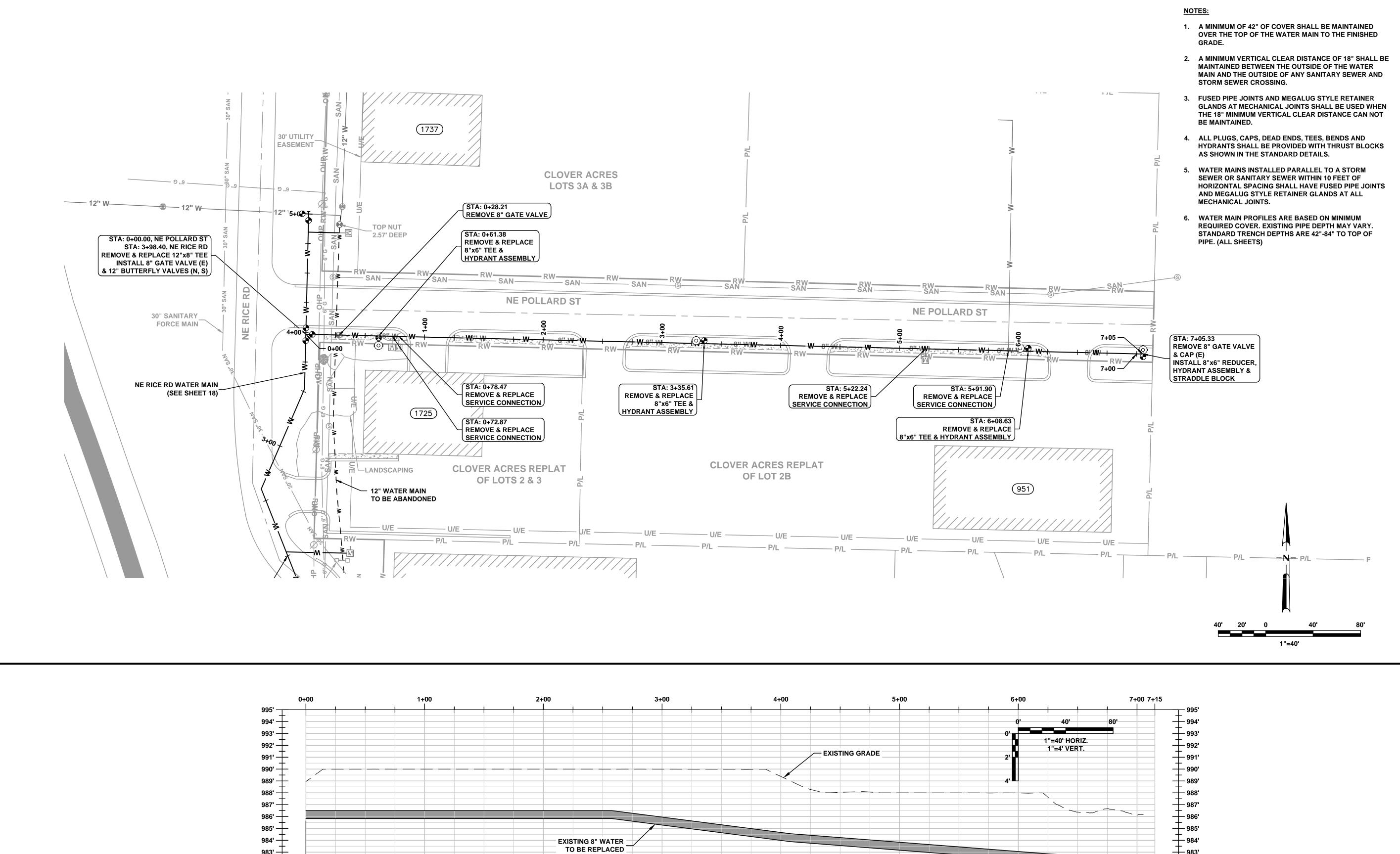
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WATER MAIN RE
PHASE 1
CITY OF LEE'S SUMMIT



Drawn By: CNS
Checked By: KLA
Date: 02/22/2024
Project# 722

0+00	1+00	2+00	3+00	4+00	5+00
_		> 2			+
_		EXISTING GRADE 508			
	6" GAS SANITARY SEWER	ACE			
	S Z Z	EXISTING GRADE			<u> </u>
	a VAS	27.00.00.00.00.00			<u> </u>
_					
_					
					+
PRÓPOSE					
8" WATER			PROPO		<u> </u>
-			12" WA	TER 0' 40'	80'
		RESTRAIN ALL JOINTS BETWEEN STA. 0+00 TO 10' NORTH OF		1"=40' HORIZ.	_
		30" FORCE MAIN CROSSING		1"=4' VERT.	<u>+</u>
±27 L.F. OF				2	
8" PVC				41	<u> </u>
		±473 L.F. OF 12" PV			
982.55 982.55 982.00 982.00 982.00	983.89 983.89 984.00 984.00 984.00	984.52 985.11 985.11 985.30 985.39 985.99 986.00	986.01 986.07 986.07 987.24 987.24	988.52 989.16 989.16 988.94 988.94 989.03	989.48 989.88 989.88 990.00
0+00	1+00	2+00	3+00	4+00	5+00
		NE RICE RO	AD		



±705 L.F. OF 8" PVC

NE POLLARD ST

5+00

6+00

7+00 7+15

982' —

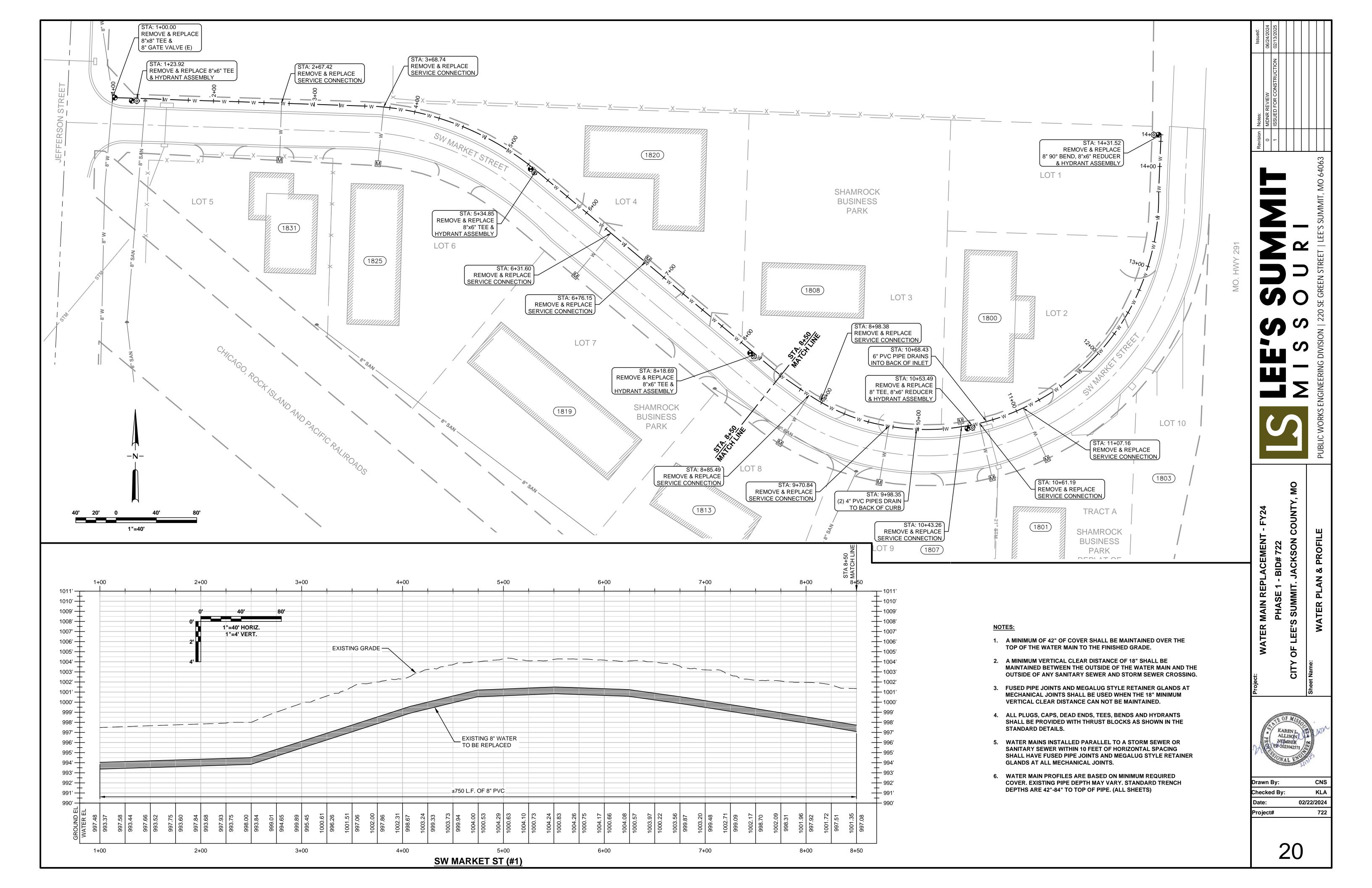
1+00

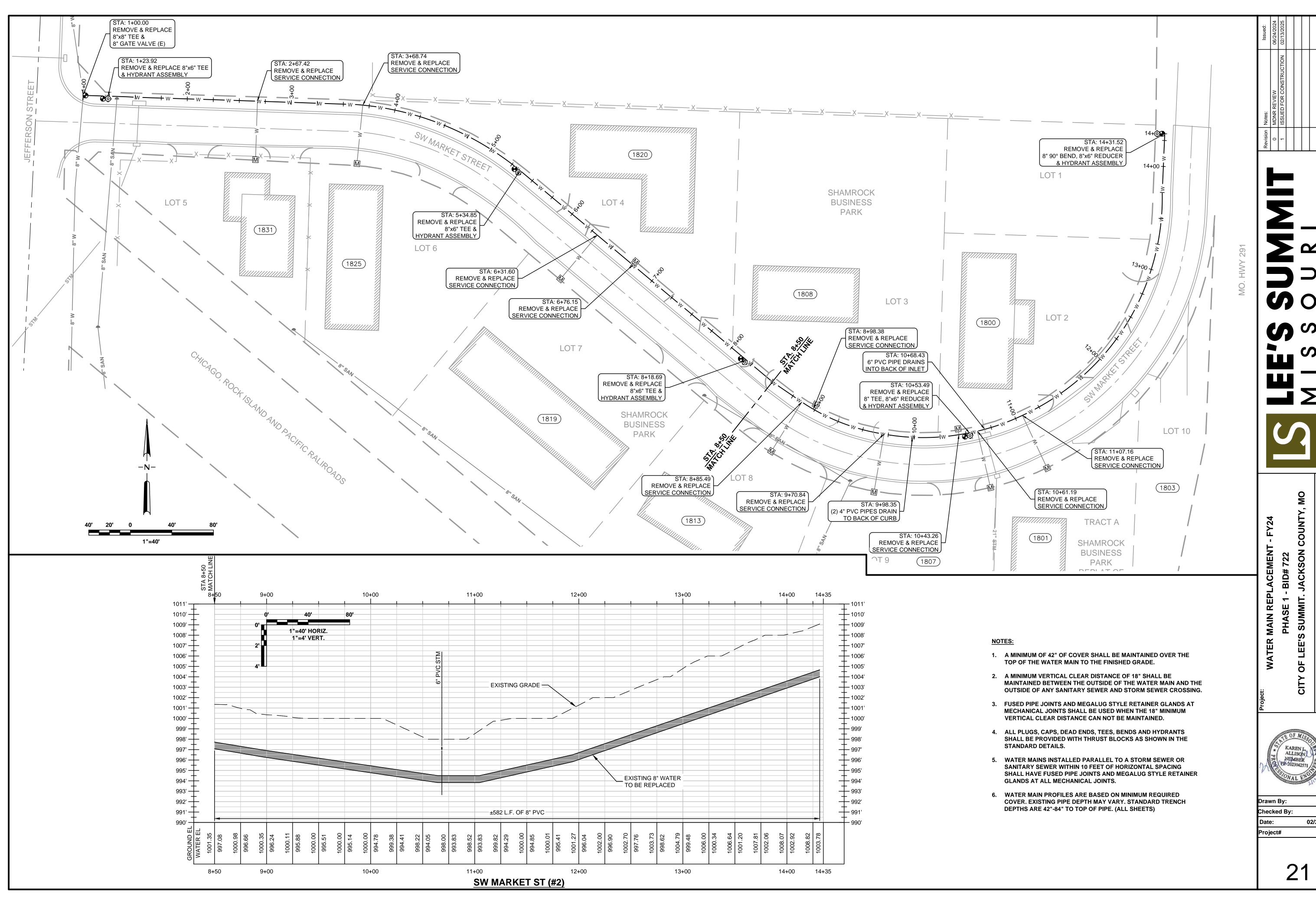
2+00

JACKSON COUNT LEE'S SUMMIT.

KAREN L ALLISON NUMBER PP-2023042571

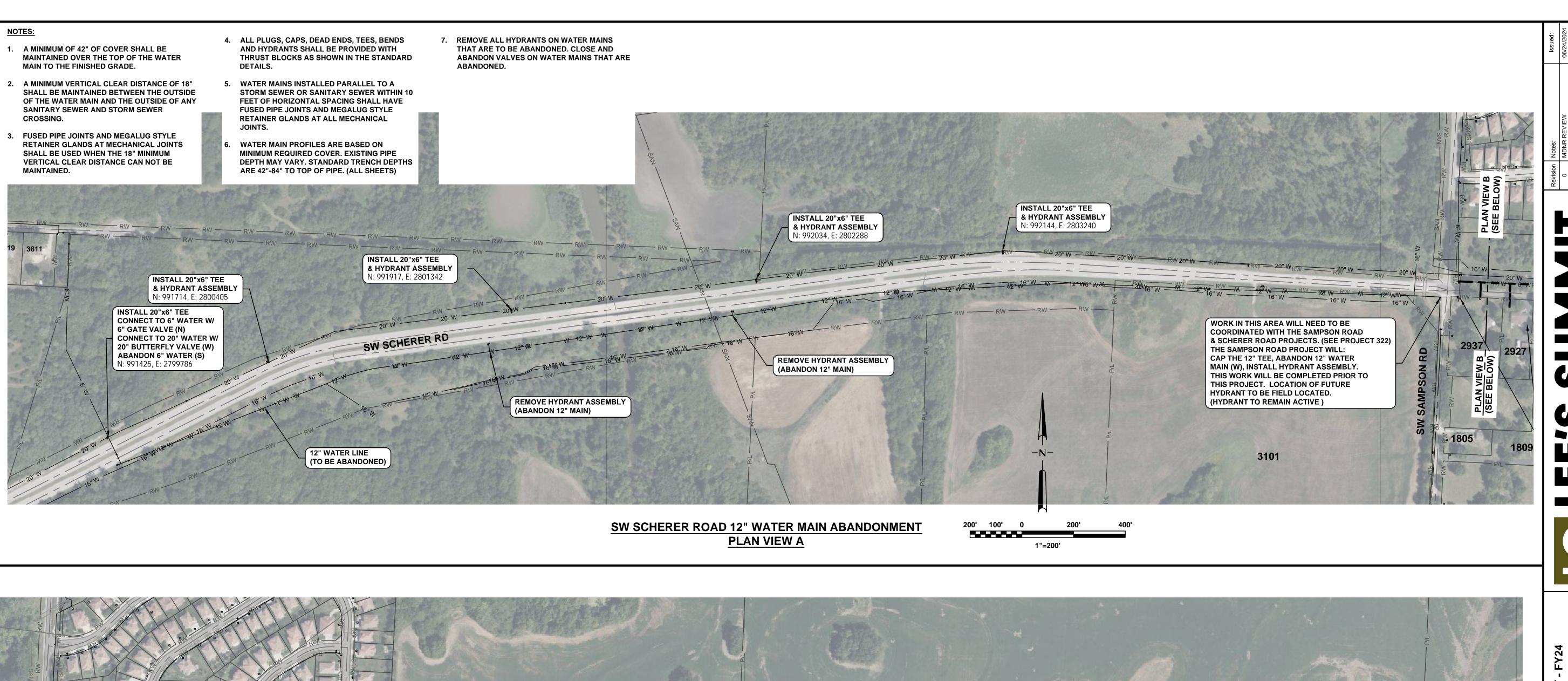
Drawn By: 02/22/2024

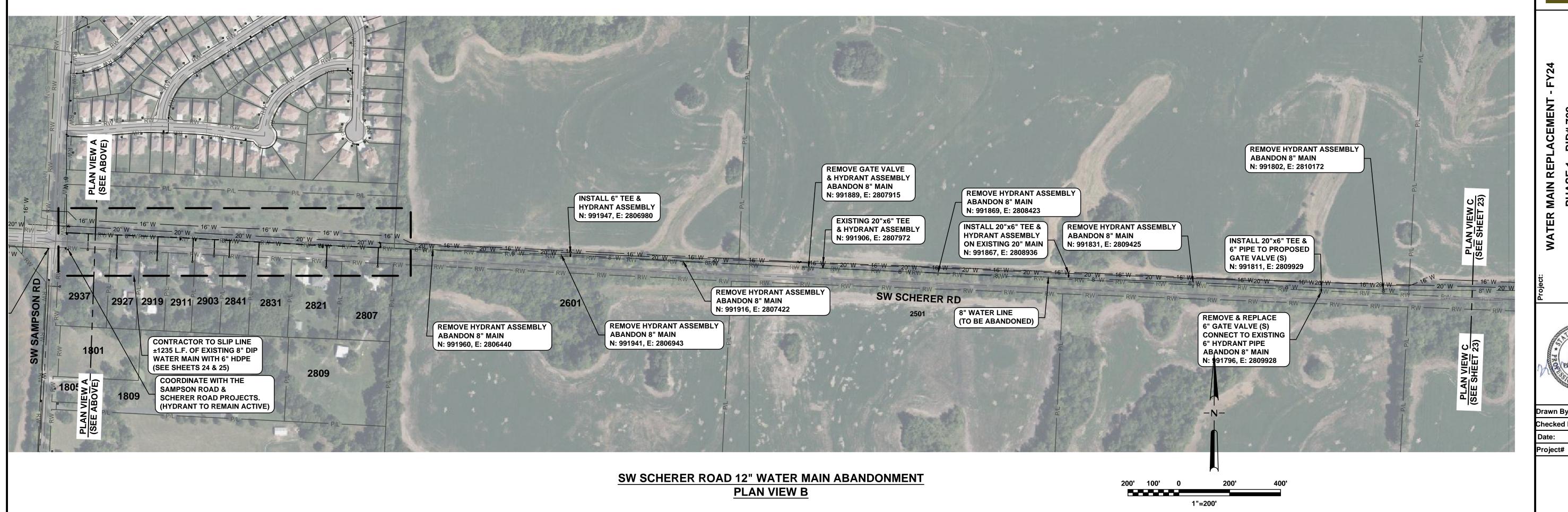


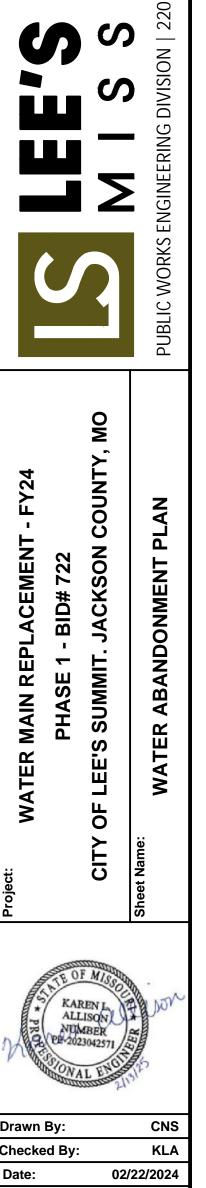


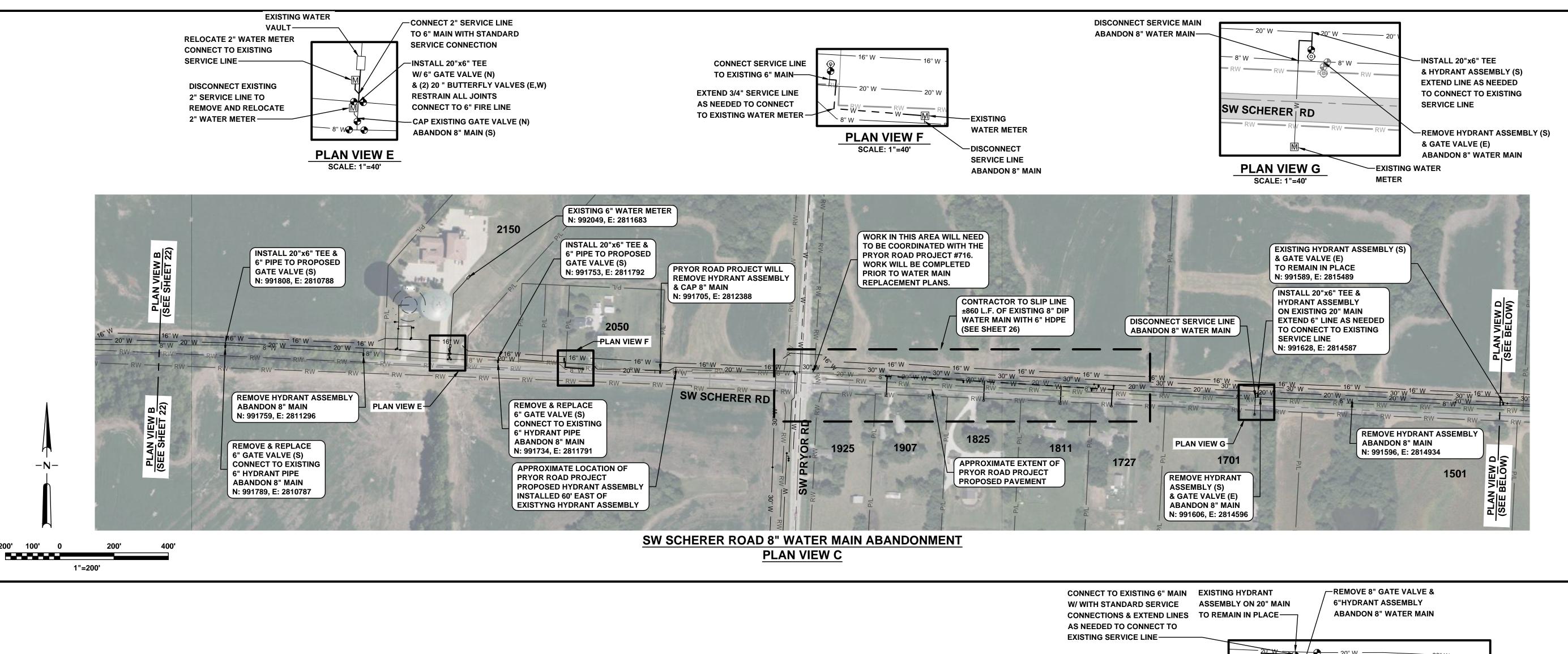
SUM

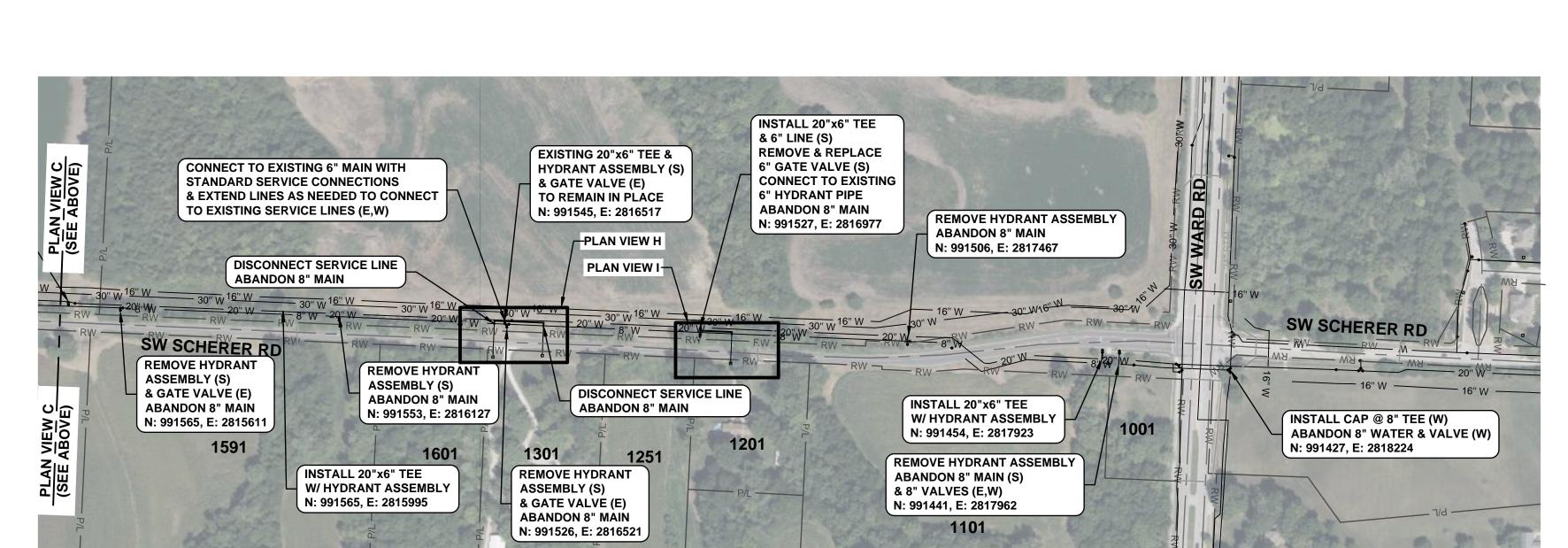
KLA 02/22/2024 722





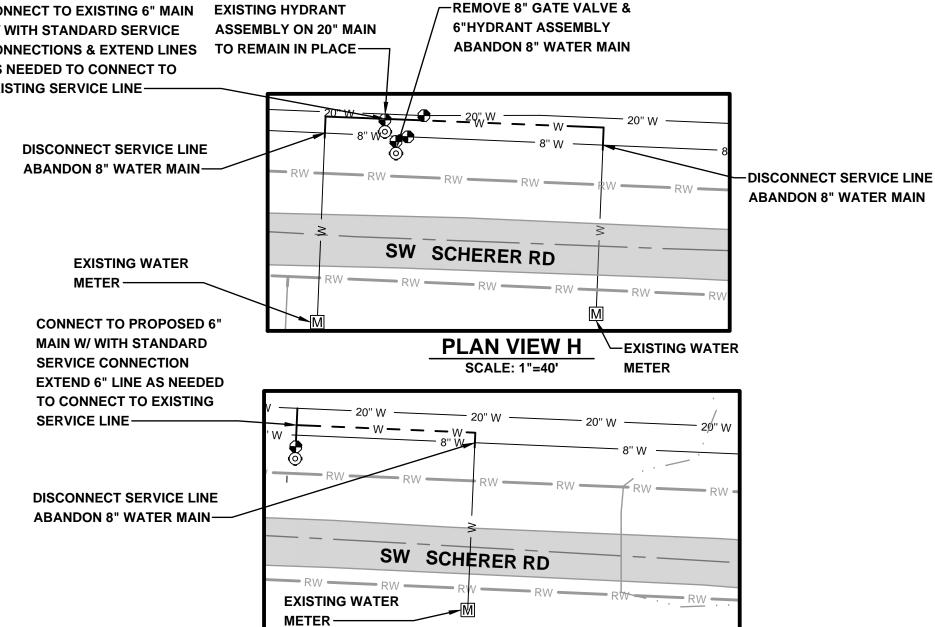






1"=200'

SW SCHERER ROAD 8" WATER MAIN ABANDONMENT PLAN VIEW D

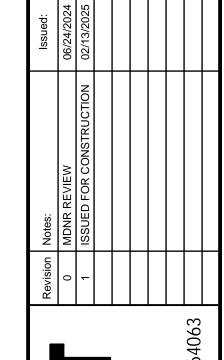


PLAN VIEW I

SCALE: 1"=40'

NOTES

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- 2. A MINIMUM VERTICAL CLEAR DISTANCE OF 18" SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY SANITARY SEWER AND STORM SEWER CROSSING.
- FUSED PIPE JOINTS AND MEGALUG STYLE RETAINER GLANDS AT MECHANICAL JOINTS SHALL BE USED WHEN THE 18" MINIMUM VERTICAL CLEAR DISTANCE CAN NOT BE MAINTAINED.
- 4. ALL PLUGS, CAPS, DEAD ENDS, TEES, BENDS AND HYDRANTS SHALL BE PROVIDED WITH THRUST BLOCKS AS SHOWN IN THE STANDARD DETAILS.
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- WATER MAIN PROFILES ARE BASED ON MINIMUM REQUIRED COVER. EXISTING PIPE DEPTH MAY VARY. STANDARD TRENCH DEPTHS ARE 42"-84" TO TOP OF PIPE. (ALL SHEETS)
- 7. REMOVE ALL HYDRANTS ON WATER MAINS THAT ARE TO BE ABANDONED. CLOSE AND ABANDON VALVES ON WATER MAINS THAT ARE ABANDONED.

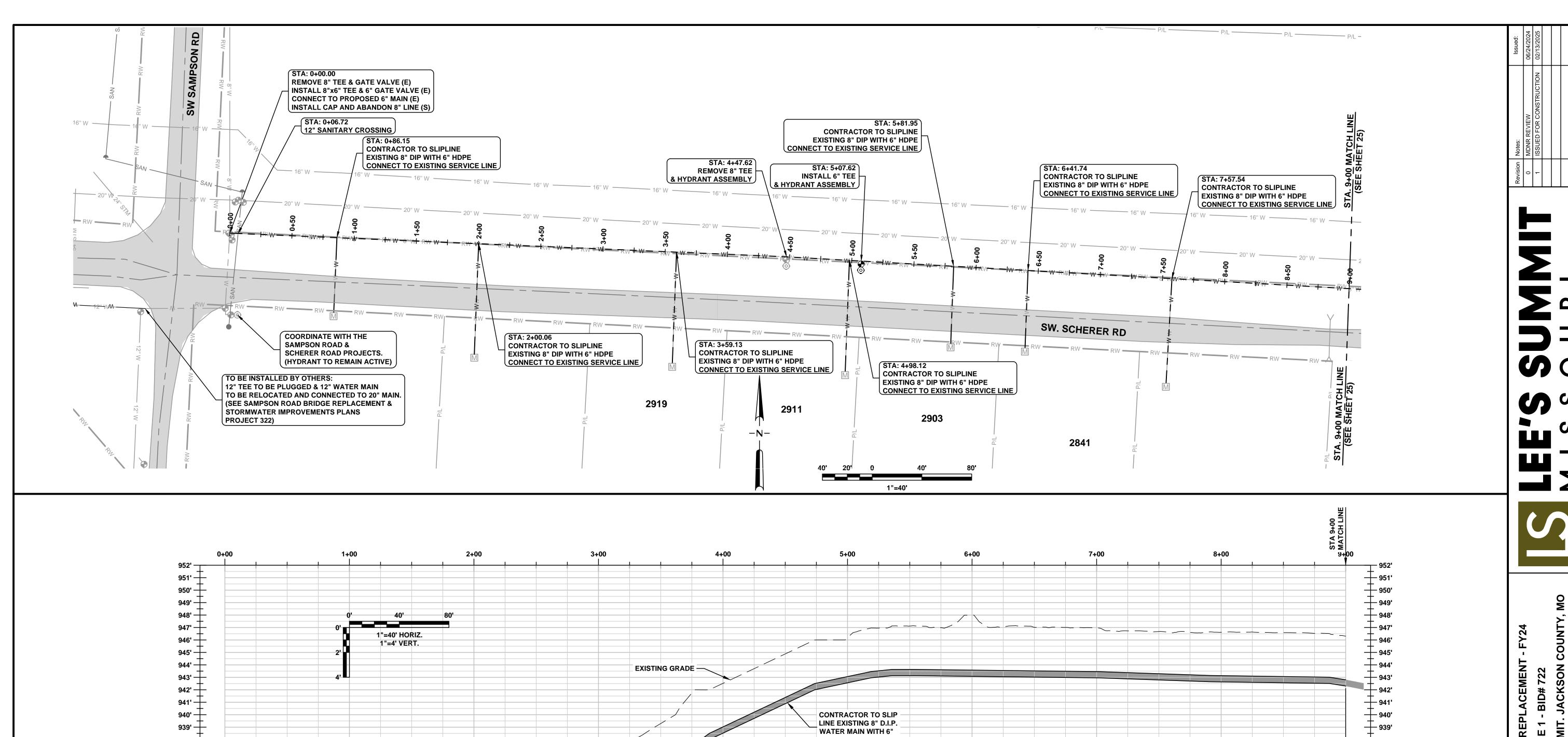


LEE'S SUMMINICATION OF IT IS SOUR!

PHASE 1 - BID# 722 LEE'S SUMMIT. JACKSON COUNTY, MO

KAREN L ALLISON MIMBER PB-2023042571

Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722



H.D.P.E. PIPE.

±900 L.F. OF 6" HDPE (RESTRAIN ALL JOINTS)

SCHERER RD - WTR #1-1

NOTES:

1. A MINIMUM OF 42" OF COVER SHALL BE MAINTAINED OVER THE TOP OF THE WATER

2. A MINIMUM VERTICAL CLEAR DISTANCE OF 18" SHALL BE MAINTAINED BETWEEN THE

OUTSIDE OF THE WATER MAIN AND THE

OUTSIDE OF ANY SANITARY SEWER AND

3. FUSED PIPE JOINTS AND MEGALUG STYLE

RETAINER GLANDS AT MECHANICAL JOINTS

6+00

SHALL BE USED WHEN THE 18" MINIMUM VERTICAL CLEAR DISTANCE CAN NOT BE

MAIN TO THE FINISHED GRADE.

STORM SEWER CROSSING.

MAINTAINED.

938' —

937'

936' —

935'

934' —

933' —

932'

931'

930' —

929' —

928' —

927' -

926' —

925' -

924' —

923'

922' —

921' —

920'

919' —

2+00

1+00

3+00

Project:
WATER MAIN REPLACEMENT - FY24
PHASE 1 - BID# 722
CITY OF LEE'S SUMMIT. JACKSON COUNTY, M

938'

937'

936'

935'

934'

933'

932'

931'

930'

929'

928'

927'

926'

925'

924'

923'

922'

921'

920'

919'

9+00

4. ALL PLUGS, CAPS, DEAD ENDS, TEES,
BENDS AND HYDRANTS SHALL BE PROVIDED

STANDARD DETAILS.

MECHANICAL JOINTS.

7+00

WITH THRUST BLOCKS AS SHOWN IN THE

WATER MAINS INSTALLED PARALLEL TO A STORM SEWER OR SANITARY SEWER WITHIN 10 FEET OF HORIZONTAL SPACING SHALL

HAVE FUSED PIPE JOINTS AND MEGALUG

WATER MAIN PROFILES ARE BASED ON

DEPTH MAY VARY. STANDARD TRENCH

MINIMUM REQUIRED COVER. EXISTING PIPE

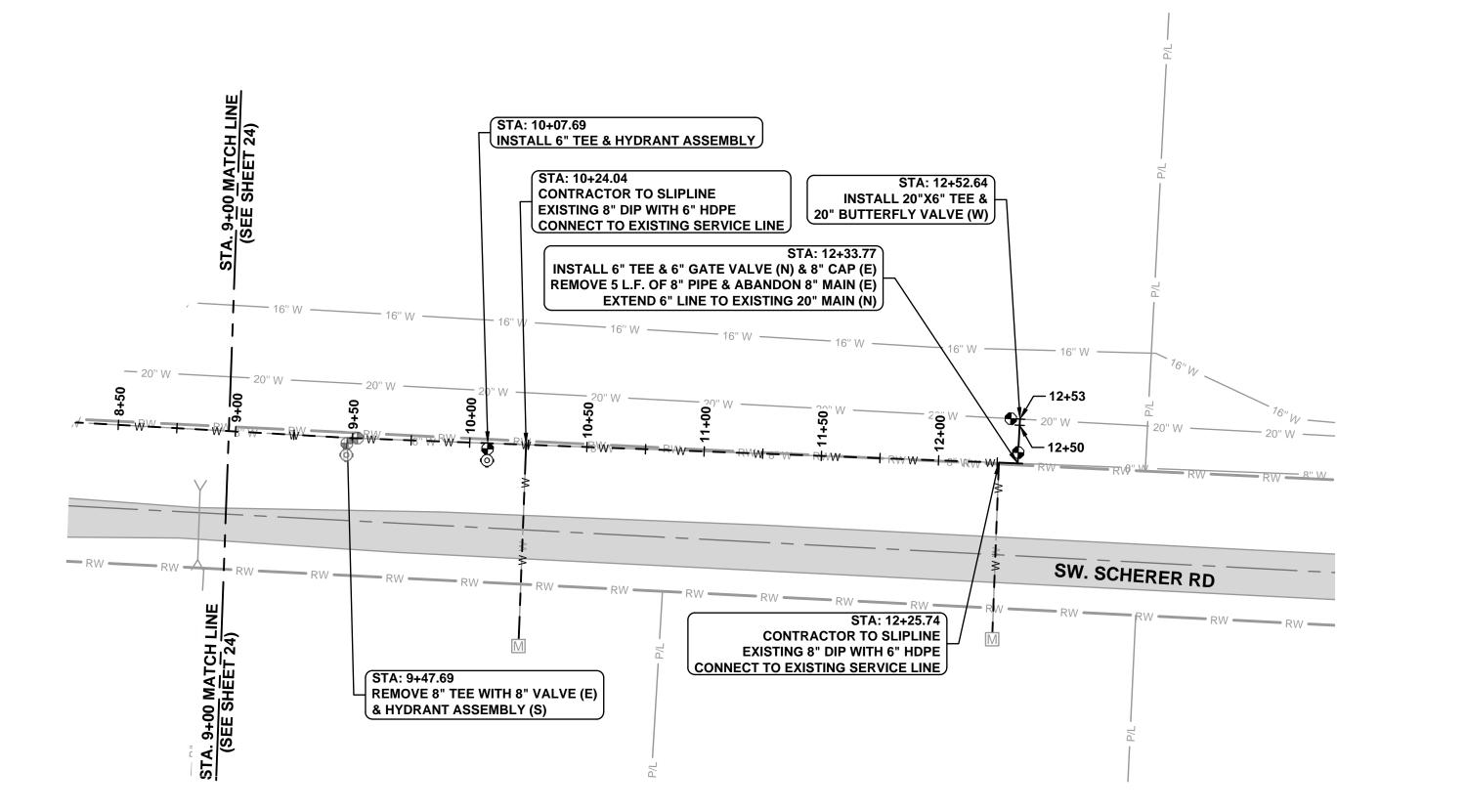
DEPTHS ARE 42"-84" TO TOP OF PIPE. (ALL

8+00

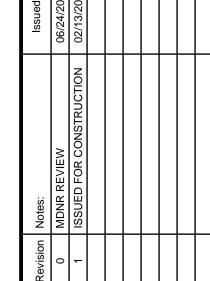
STYLE RETAINER GLANDS AT ALL

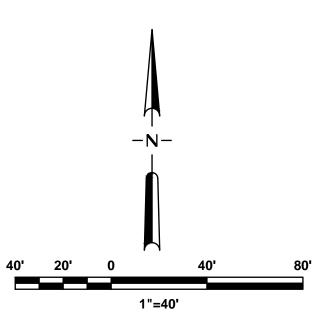
KAREN L ALLISON NUMBER PE-2023042571

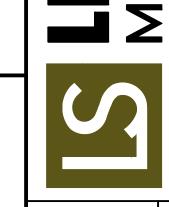
Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722



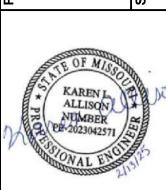
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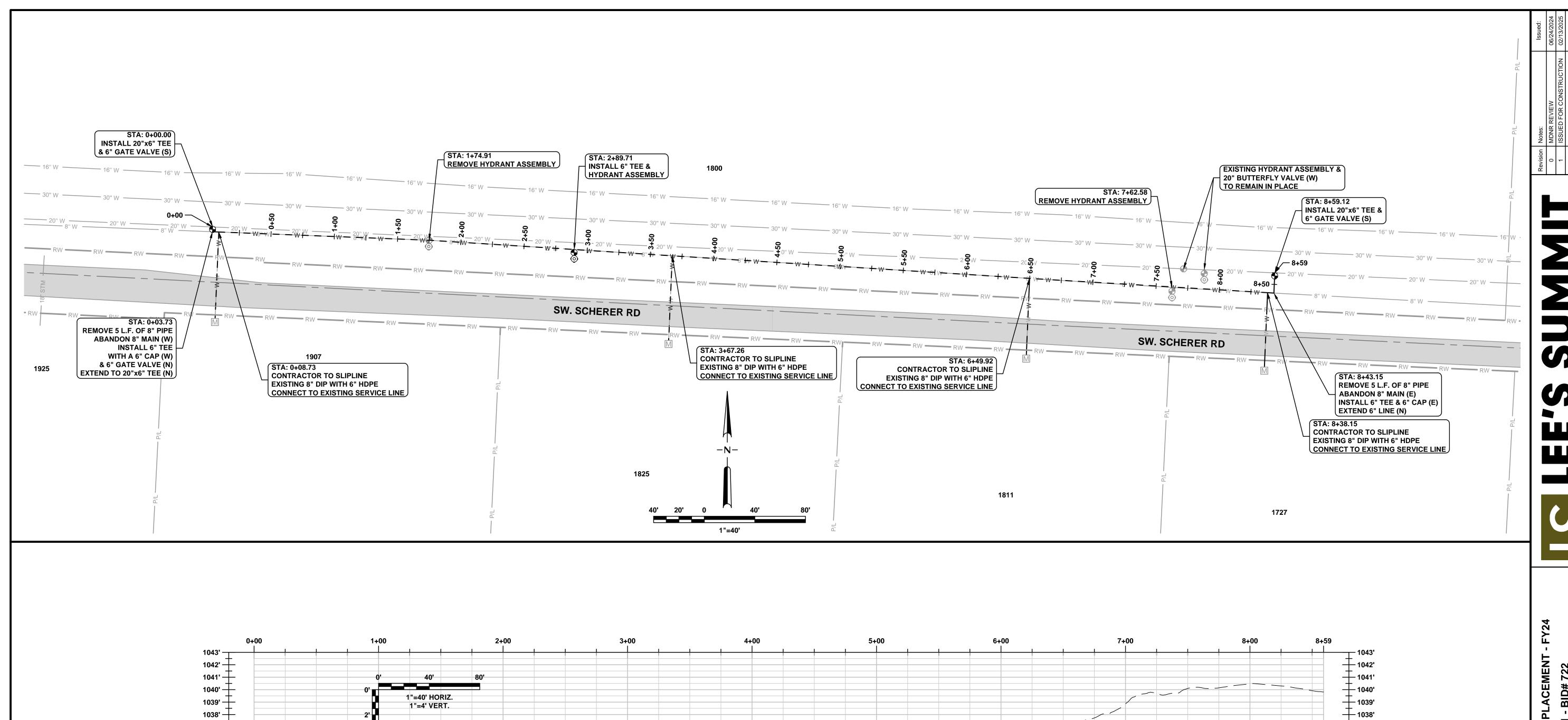


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CNS
KLA
02/22/2024
722

	:	00 WATCH LINE						10	+00							11+	-00						12-	-00			12+	⊦ 53	
5' _																													\pm
4' ∓	_																												\pm
3' ±	_								0'			40'			80'														\pm
2' ±	_							0'			"_ AC)' HOI	D17																\pm
''士	-											' VEF																	\pm
)' ±	-							2'																		\			\pm
)' ±	-											EXI	STIN	G GF	ADE	$\overline{}$										\ -			\pm
3'±	_							4'					_	_			_	_	_										\pm
"士	-									. —	-																		士
5 '士	-		_				_																				//		+
5'士	-																												+
" 🛨	-																												+
³'±	-																\rightarrow		CONTRAC										+
<u>'</u> '	-																	<u> </u>	WATER N	IAIN V									丰
''‡	-																		I.D.P.E. P	IPE.									#
)'士	-										353	FC)F 6"	HDP	F (RF	STR	ΔΙΝ Δ	11.	JOINTS)										+
) '	-	-													\												-		+
3' <u>+</u>																											\neg		\dashv
GROUND EL	WATER EL	946.30	946.00	946.00	945.99	945.99	946.00	946.34	946.34	946.78	946.78	947.82	947.82	947.99	947.99	948.00	948.00	948.26	948.26	948.37	948.59	948.59	949.21	949.21	949.86	949.86	949.76	_9 <u>7</u>	
<i></i> :	\Box	أن أ		ဖ်	5.	r.	ا بق	9	9	ဖွ	ဖ	7.	7.	7.	7.	<u>∞</u>	<u>∞</u>	<u>∞</u>	<u> </u>	<u>∞</u>	<u>∞</u>	<u>∞</u>	<u>o</u>	<u>6</u>	<u>ල</u>	<u>ල</u>	(ဂ	(0)	



EXISTING GRADE —

±859 L.F. OF 6" HDPE

SCHERER RD - WTR #2

3+00

CONTRACTOR TO SLIP
LINE EXISTING 8" DIP
WATER MAIN WITH 6"

6+00

7+00

8+00

8+59

HDPE PIPE.

1037' — 1036' — 1035' —

1034' +

1033' +

1032' +

1031' +

1029' — 1028' — 1027' —

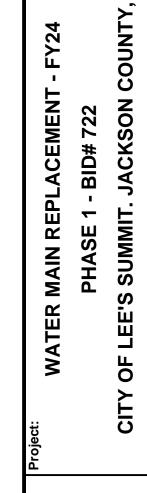
1026' | 1025' |

1024' — 1023' — 1022' — 1021' — 1020' —

1019' — 1018' —

1+00

2+00



| 1035'

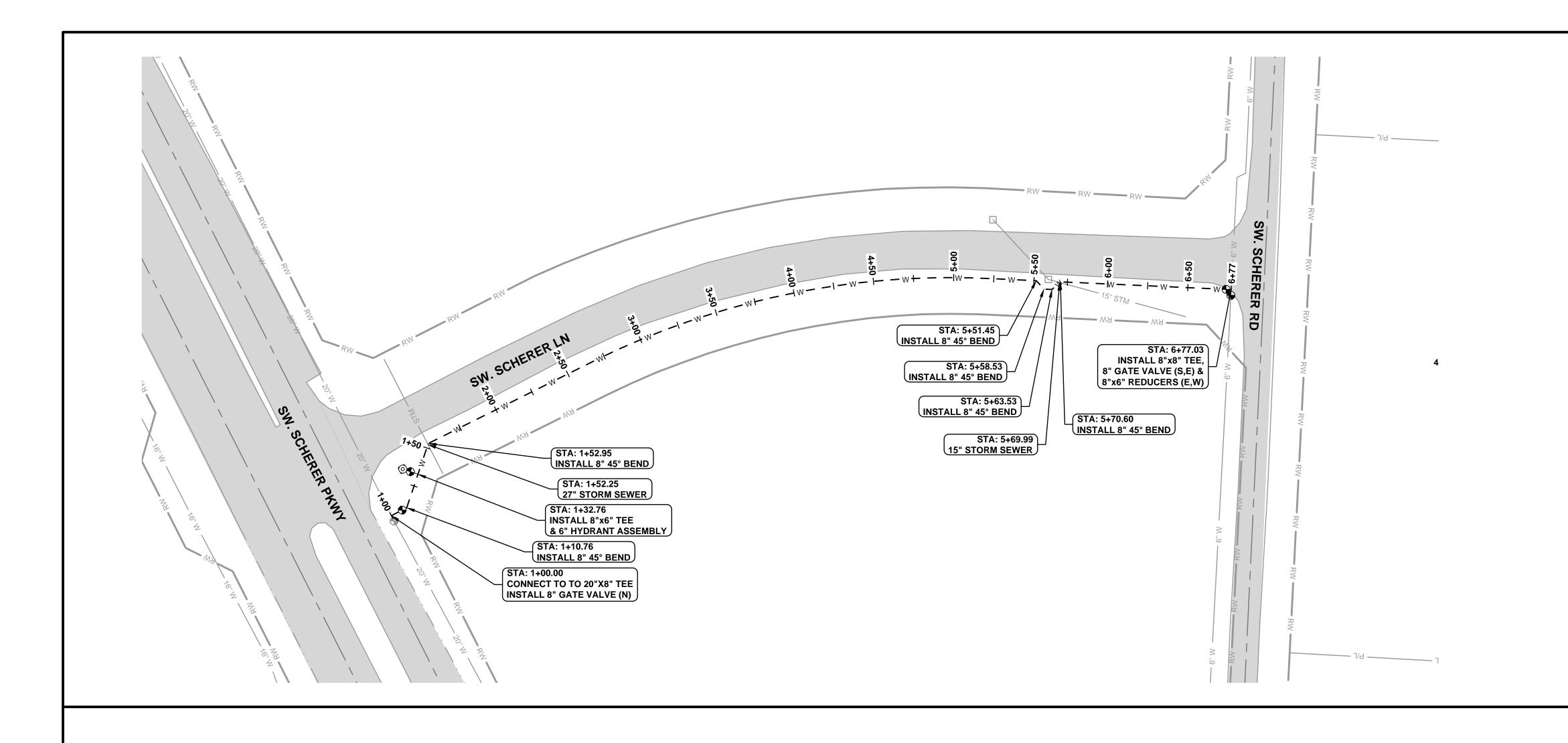
11034'

| 1033'

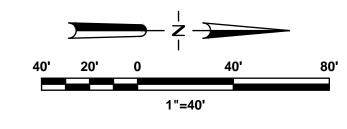
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PROSESSION	KAREN L ALLISON NUMBER E-2023042571
_	

Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722
	·



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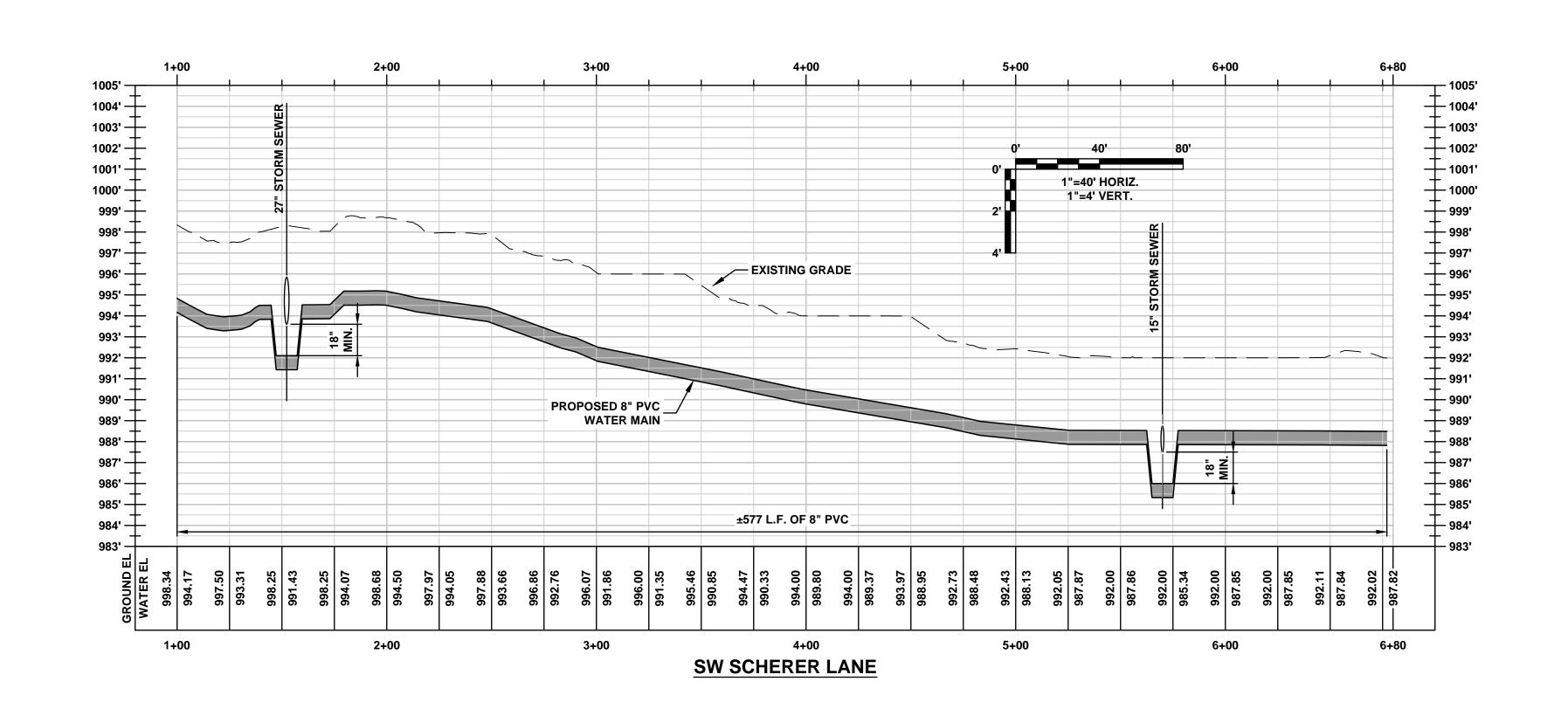
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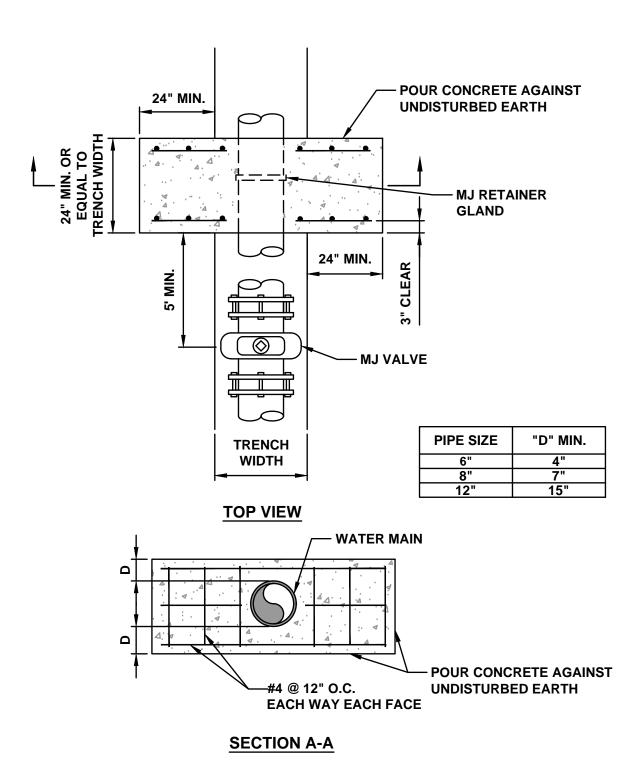
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WATER MAIN REPLACEMENT - FY24
PHASE 1 - BID# 722
CITY OF LEE'S SUMMIT. JACKSON COUNT

KAREN L ALLISON NUMBER PE-2023042571

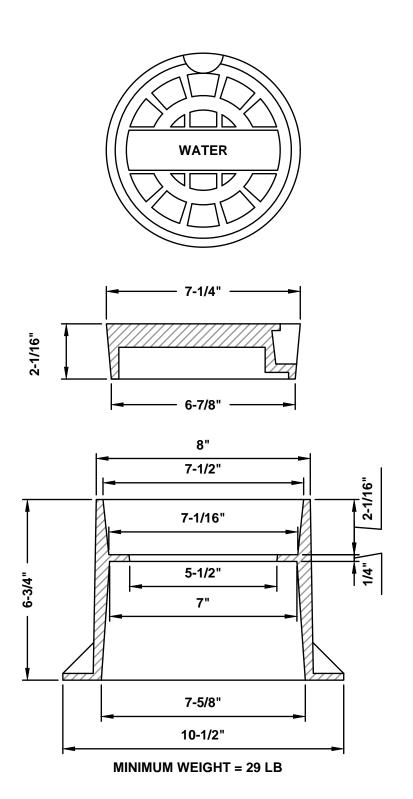
Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722





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

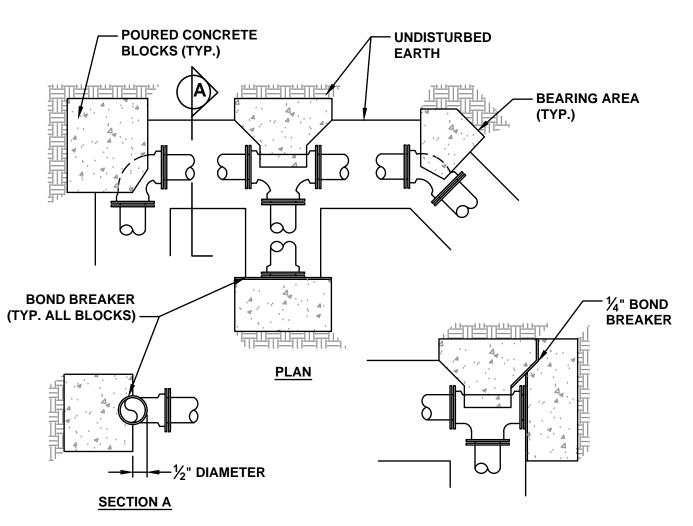
STRADDLE BLOCK NOT TO SCALE



VALVE BOX COVER NOT TO SCALE

REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)

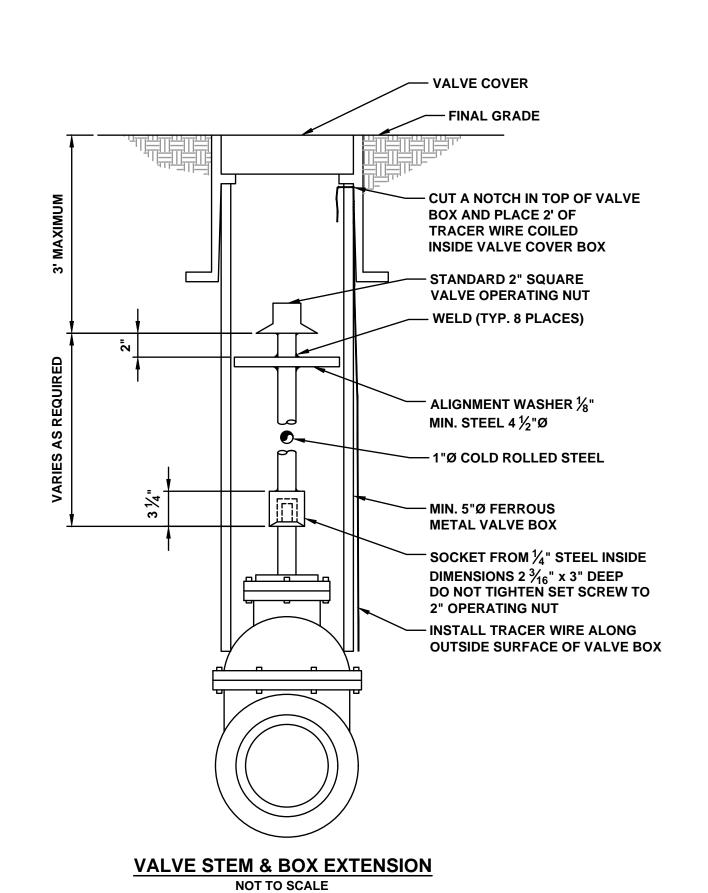
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.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



NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.

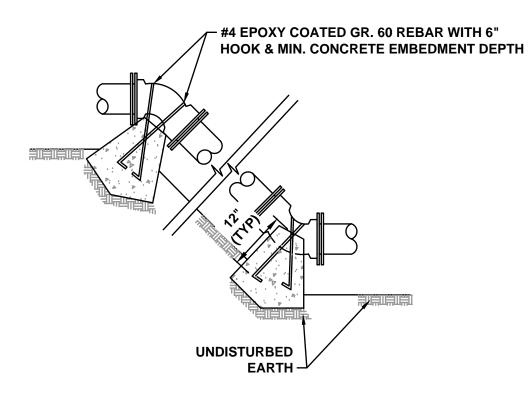
- 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
- 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
- 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

HORIZONTAL THRUST BLOCKS NOT TO SCALE



REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)

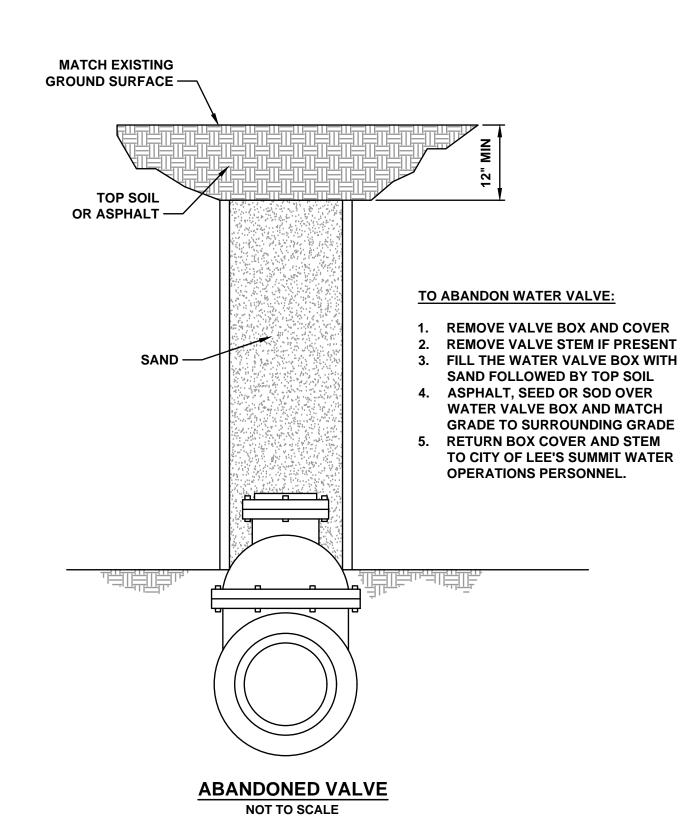
NOM. DIA.	180	90	45	22.5	11.25
(INCHES)	TEE, PLUG	BEND	BEND	BEND	BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. 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

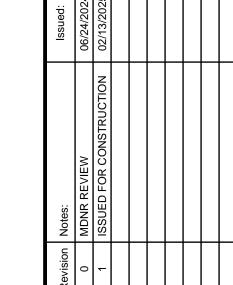


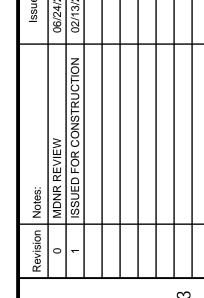
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT. 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING. 3. BEARING MUST BE AGAINST UNDISTURBED SOIL. 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE)

> **VERTICAL THRUST BLOCKS NOT TO SCALE**

WITH CONCRETE.



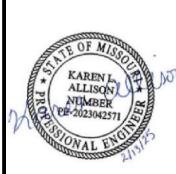




COUNT JACKSON

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SUMMIT.



Drawn By: Checked By: KLA 02/22/2024 722 Project#

SIDEWALK/SHARED-USE PATH WITHOUT BUFFER NOT TO SCALE

SIDEWALK (5' MIN.) SHARED-USE PATH (10' MIN.) VARIES 2.0% - 4.0% SLOPE 1.5% SLOPE 4" CONCRETE (SIDEWALK) 6" CONCRETE (SHARED-USE PATH) 4" COMPACTED AGGREGATE BASE COMPACTED STABLE SUBGRADE *SEE NOTE 1

SIDEWALK/SHARED-USE PATH WITH BUFFER NOT TO SCALE

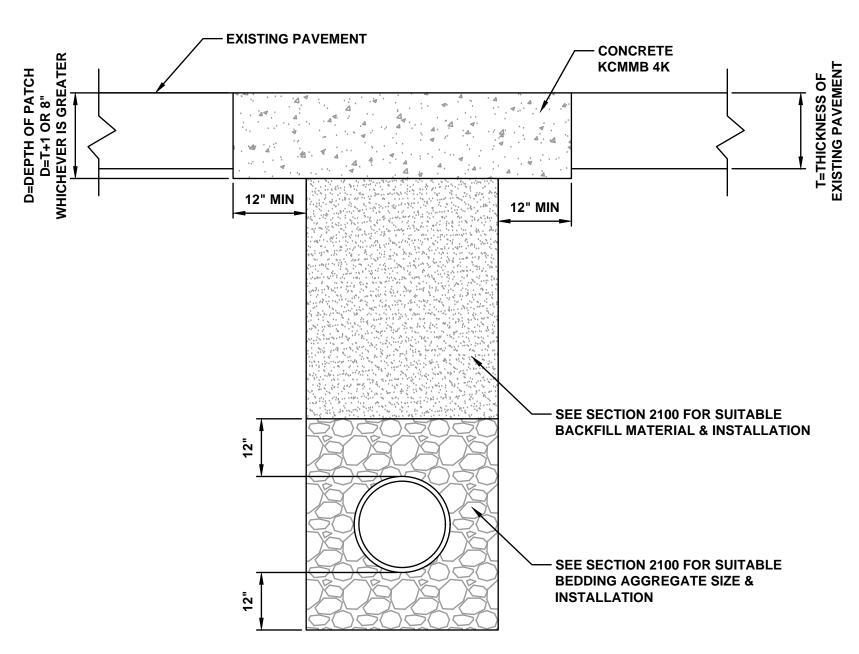
GENERAL NOTES:

- 1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH
- 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- 2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
- 3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS.
- 4. ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
- 5. AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
- 6. AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
- 7. SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.

GRAVEL DRIVEWAY RESTORATION

NOT TO SCALE

- 8. SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS
- DIRECTED BY CITY INSPECTOR.
- 9. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.



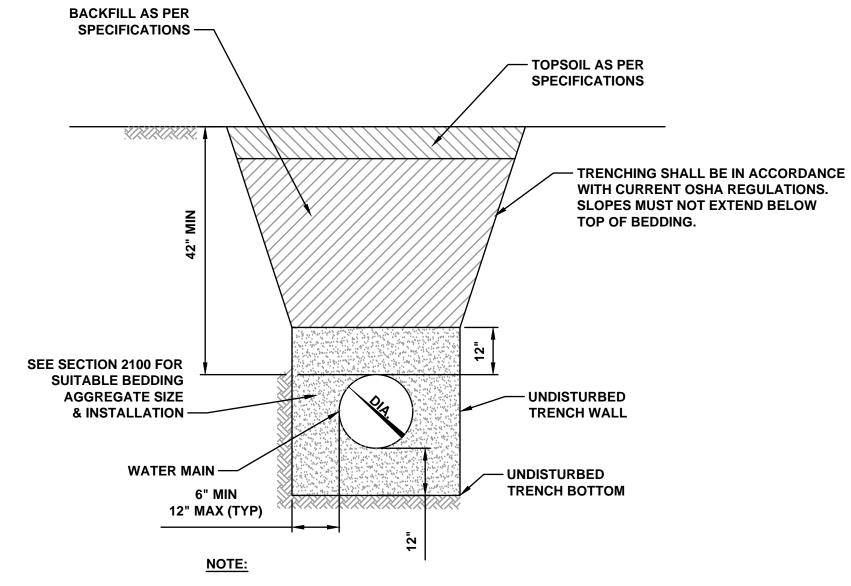
NOTES

1. PAVEMENT SHALL BE SAWED AND REMOVED WITHOUT DAMAGE TO ADJACENT PAVEMENT.

ASPHALT OR CONCRETE PUBLIC STREET NOT TO SCALE

CONCRETE DRIVEWAY RESTORATION

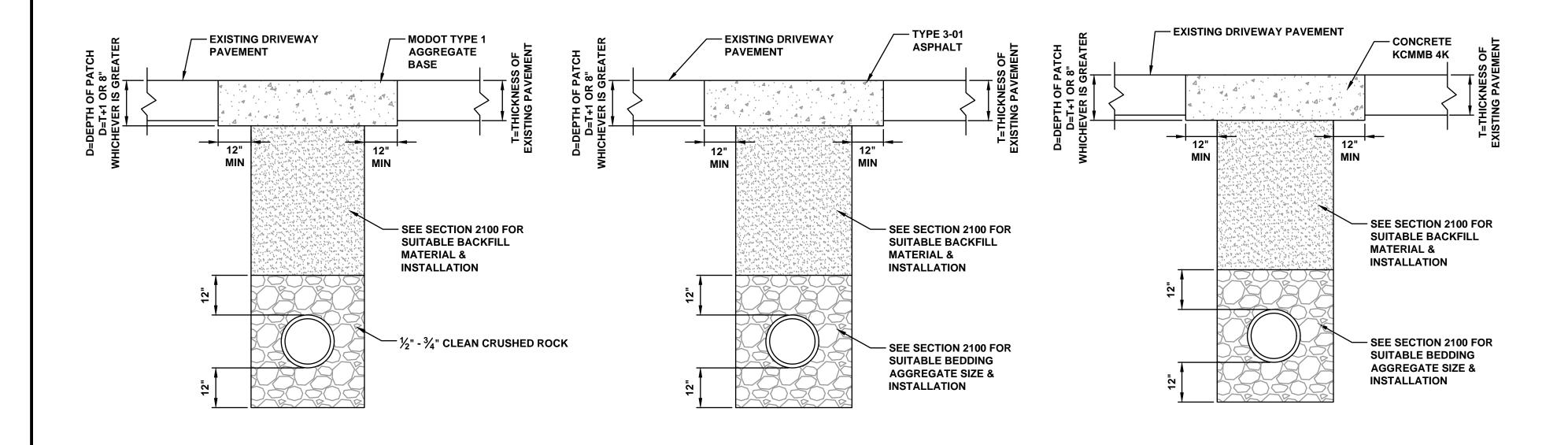
NOT TO SCALE



BELL HOLES SHALL BE DUG SO THAT NO PART OF THE BELL SHALL BE IN CONTACT WITH THE TRENCH BOTTOM.

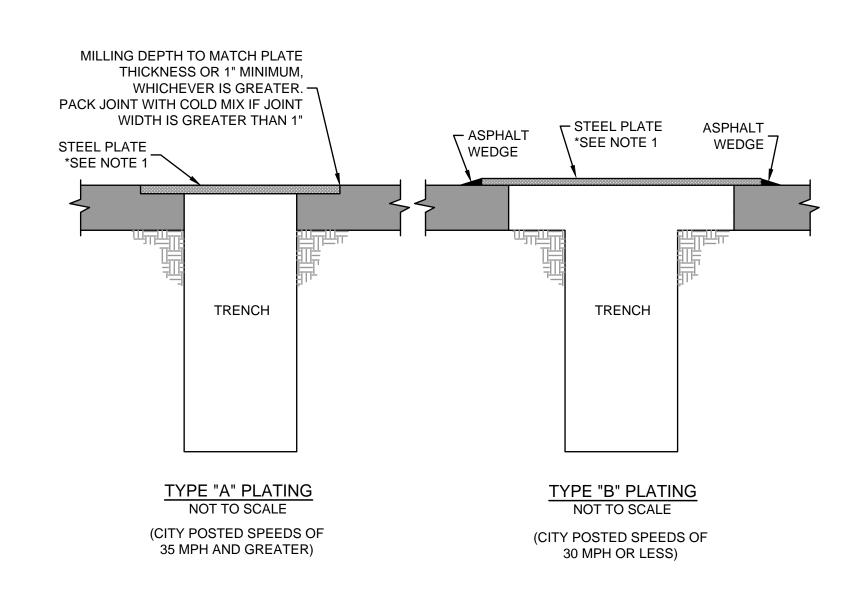
TRENCH DETAIL

NOT TO SCALE



ASPHALT DRIVEWAY RESTORATION

NOT TO SCALE

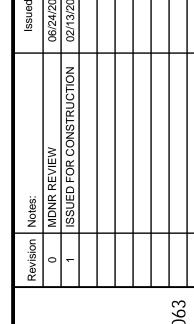


TRENCH PLATE DETAIL

GENERAL NOTES:

 THE CONTRACTOR SHALL PROVIDE ADEQUATE OVERLAP OF PLATE ON ASPHALT TO ASSURE NO SLIPPAGE OF PLATE AND NO COLLAPSING OF TRENCH.

2. ALL PLATES SHALL BE ANCHORED SO PLATES DO NOT MOVE OR SHIFT UNDER TRAFFIC.

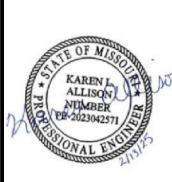


LEE'S SUMMIT

PHASE 1 - BID# 722 S SUMMIT. JACKSON COUNTY, M

SEM

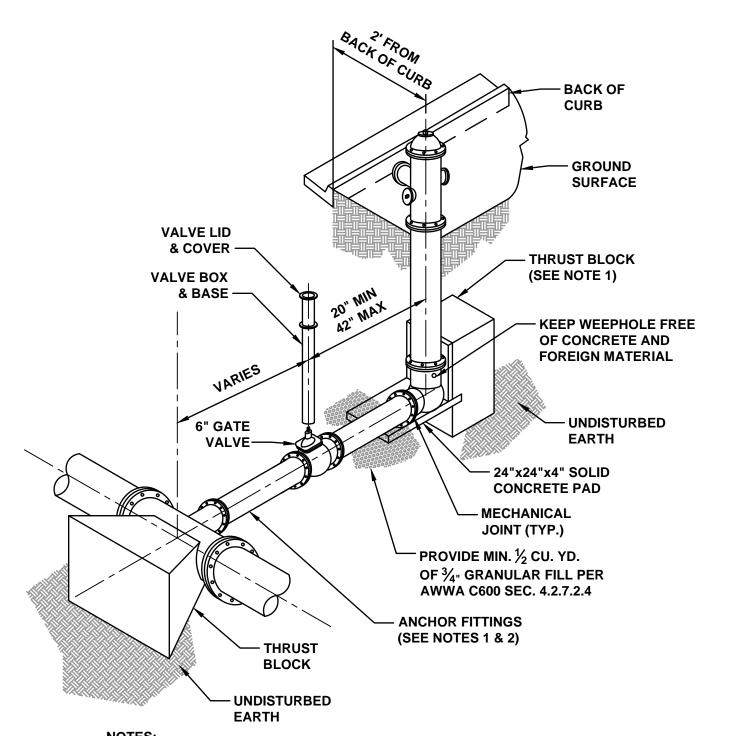
PHASE CITY OF LEE'S SUMM



Drawn By: CNS
Checked By: KLA
Date: 02/22/2024
Project# 722

- 1. METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
- 2. IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
- CITY TO FURNISH ITEMS A-K ONLY ON NEW DEVELOPMENT HOMES.
- NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
- 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES. EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
- NO SPLICES ALLOWED BETWEEN METER AND MAIN.
- SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
- LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
- 10. CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

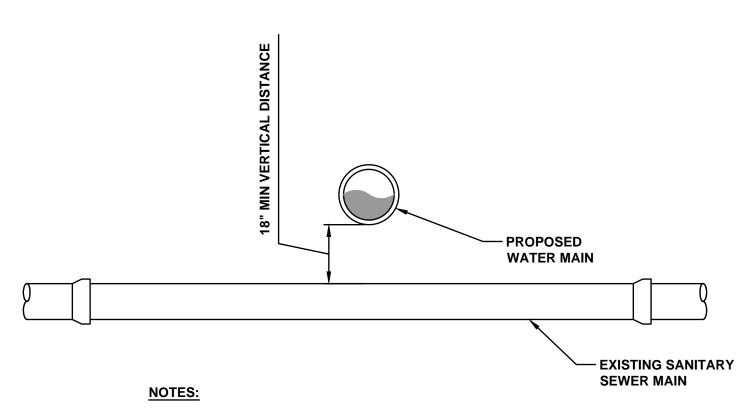
SERVICE CONNECTION METER WELL NOT TO SCALE



1. WHEN RETAINER GLANDS ARE USED IN LIEU OF ANCHOR FITTINGS,

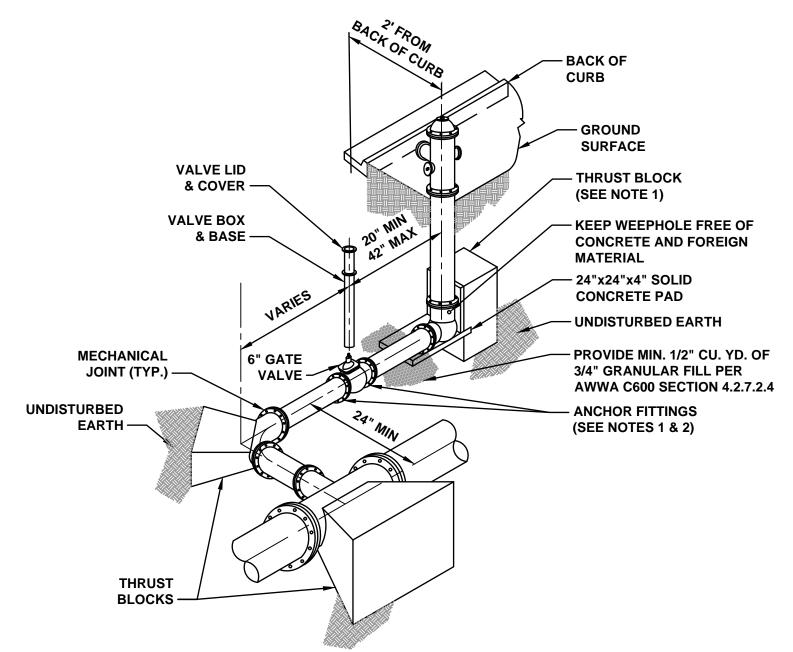
- HORIZONTAL THRUST BLOCKS ARE REQUIRED.
- 2. GATE VALVE MAY BE BOLTED DIRECTLY TO ANCHOR TEE.
- 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT,
- VALVES, VALVE BOX LID AND COVER.
- 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE. 5. FOR STREETS WITHOUT CURBS FIRE 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.

HYDRANT INSTALLATION STRAIGHT SET



1. FULL LENGTH OF WATER PIPE SHALL BE LOCATED SUCH THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.

SANITARY SEWER UTILITY CROSSING **NOT TO SCALE**

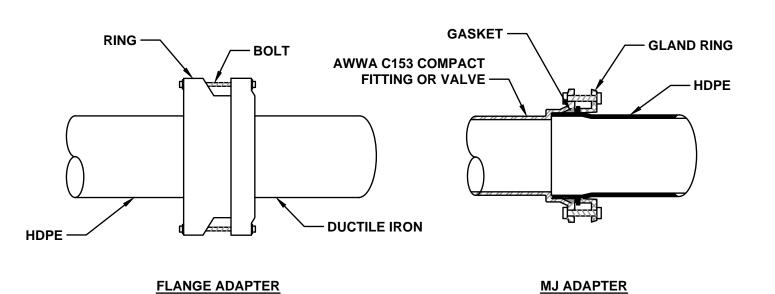


1. WHEN RETAINER GLANDS ARE USED IN LIEU OF ANCHOR RESTRAINT

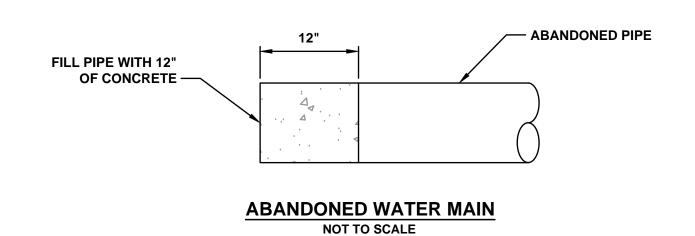
- FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
- 2. GATE VALVE MAY BE BOLTED DIRECTLY TO ANCHOR TEE.
- 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
- 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE. 5. FOR STREETS WITHOUT CURBS 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
- 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

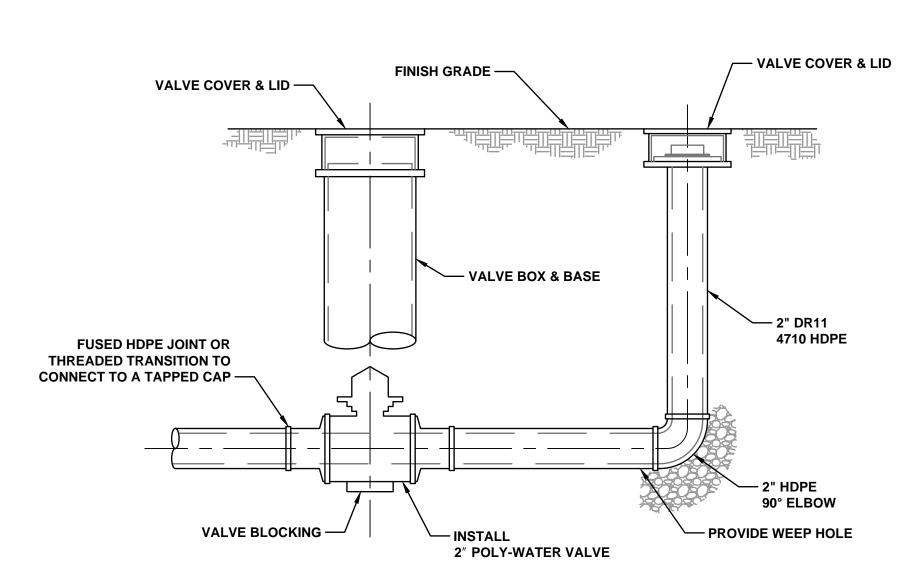
HYDRANT ASSEMBLY WITH 90° BEND

NOT TO SCALE

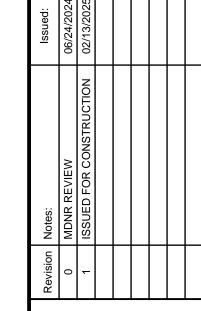


HDPE TO DUCTILE IRON CONNECTION NOT TO SCALE





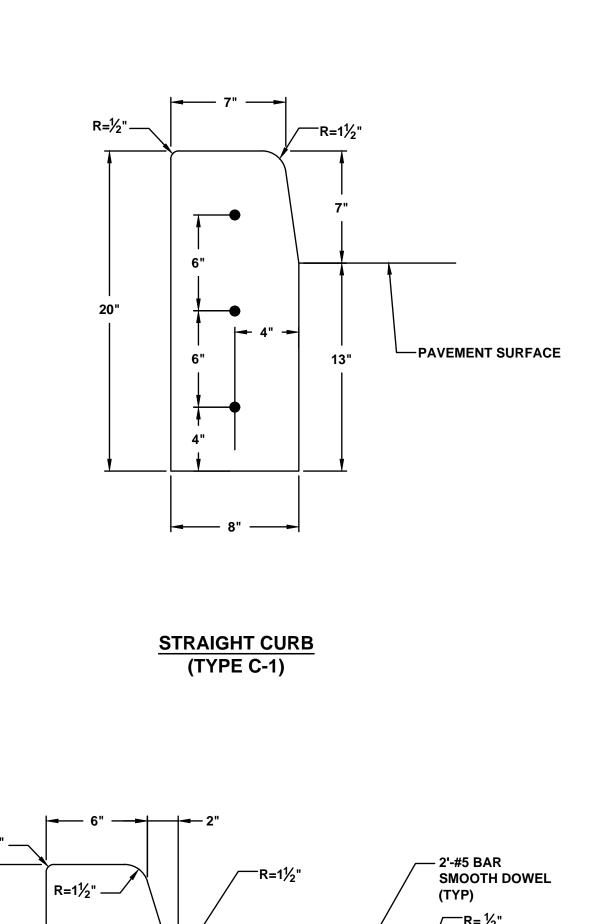


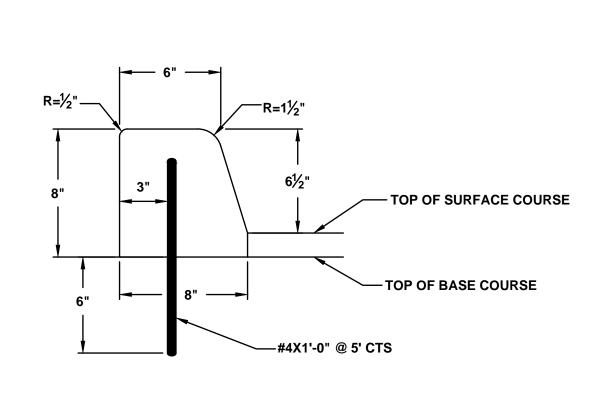


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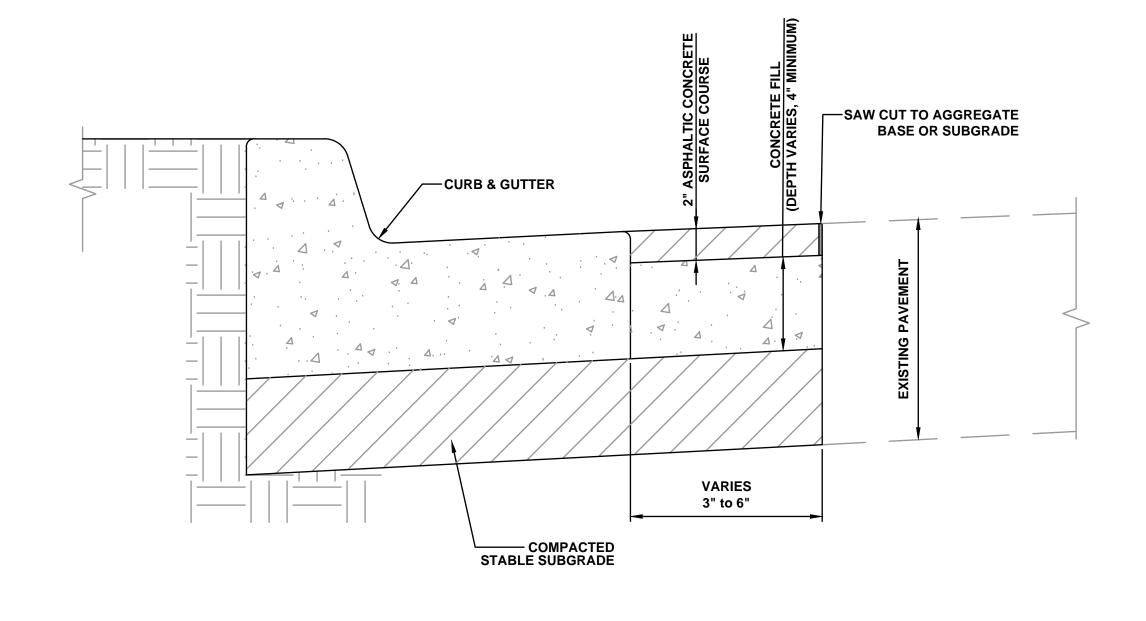
Drawn By: Checked By: KLA 02/22/2024 Project#



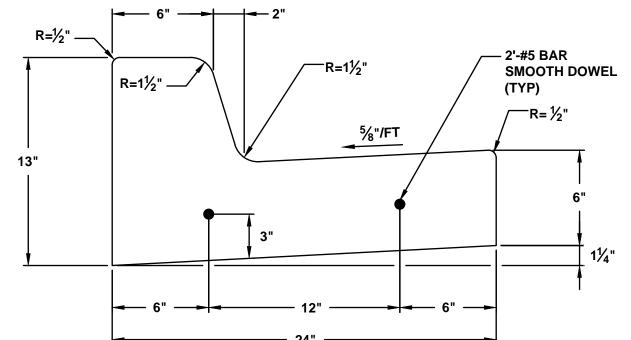


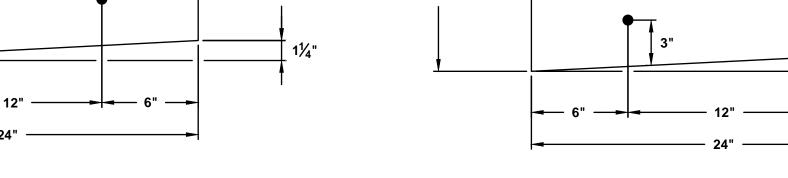
DOWELLED CURB

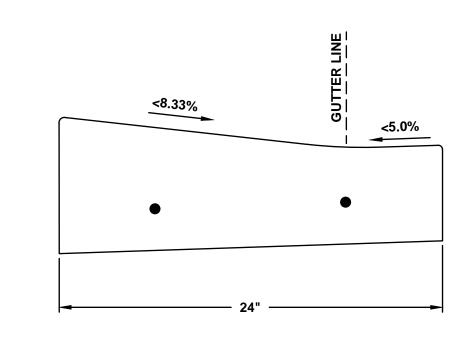
(TYPE DC)











STRAIGHT BACK CURB & GUTTER (TYPE CG-1)





GENERAL NOTES

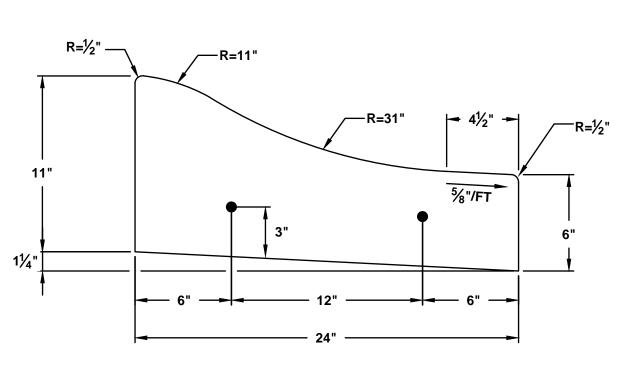
- 1. $\frac{3}{4}$ " ISOLATION JOINTS WITH 2 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES AND BONDED EITHER THROUGH CASTING IN PLACE OR DRILLING AND BONDING UTILIZING AN EPOXY OR POLYESTER BONDING AGENT FOR THE OTHER END.
- 2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
- 3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
- 4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
- 5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.

 6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS
- SHOWN IN TYPICAL SECTION DETAIL.
- WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE
- SURFACE IMMEDIATELY AFTER FINAL FINISHING. 8. ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.
- 9. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED CONSISTENT WITH THE ISOLATION JOINT DETAIL AS PRESENTED IN GENERAL NOTE 1 (ABOVE).

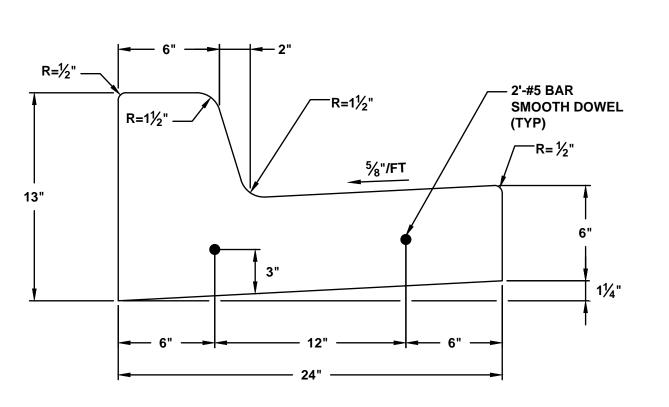
 $R=1\frac{1}{2}$ " —

STRAIGHT BACK DRY CURB & GUTTER

(TYPE CG-1 DRY)



ROLL BACK DRY CURB & GUTTER (TYPE CG-2 DRY)



TRANSVERSE CONSTRUCTION JOINT DETAIL (ALL CURB & GUTTER TYPES)

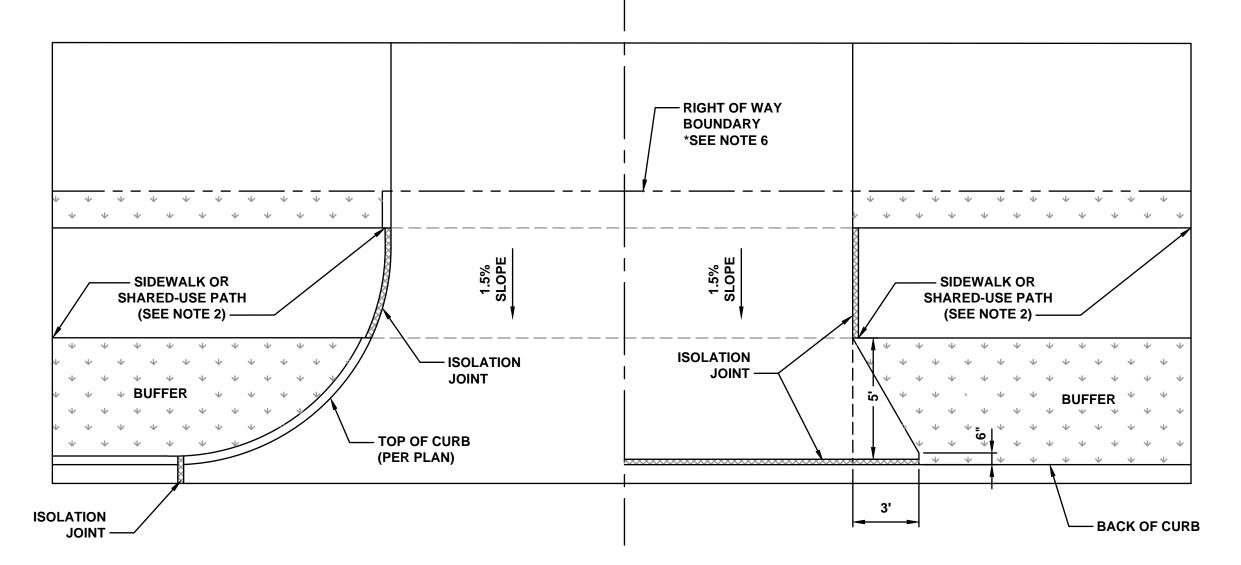


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JACKSON COUNT

SUMMIT.

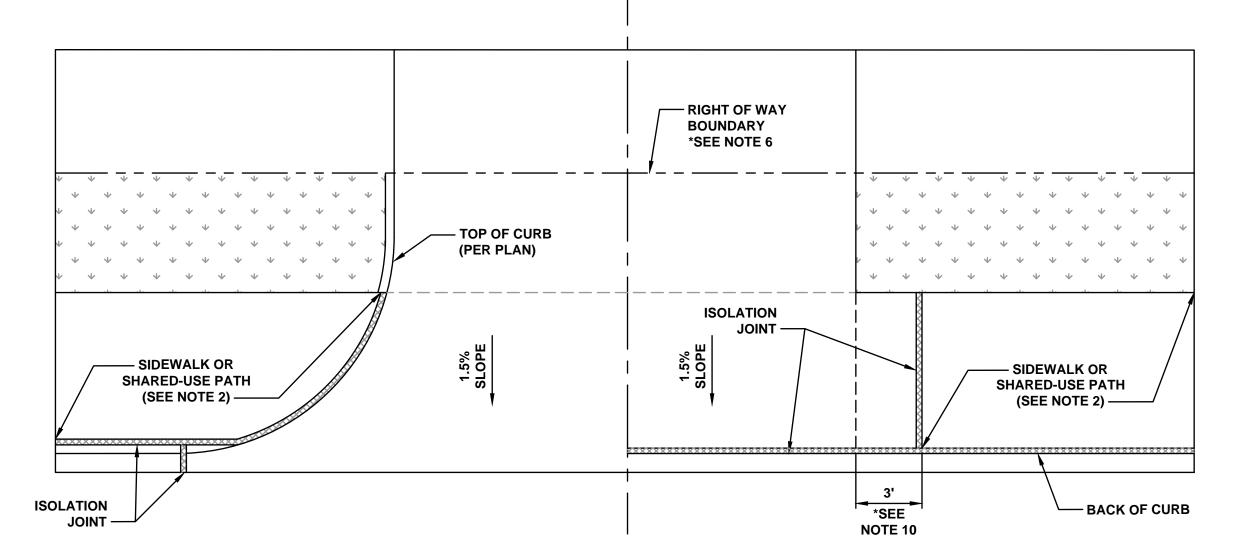
Drawn By:	CNS
Checked By:	KLA
Date:	02/22/2024
Project#	722



8" COMMERCIAL DRIVEWAY

6" RESIDENTIAL DRIVEWAY

DRIVEWAY WITH BUFFER NOT TO SCALE



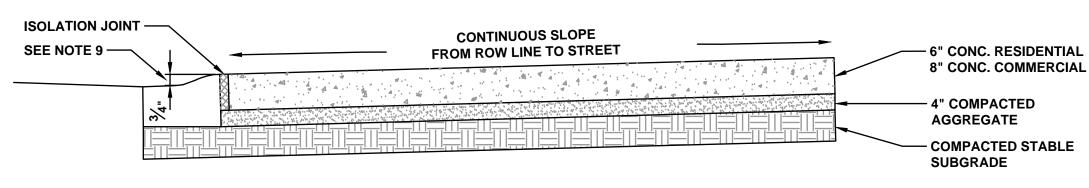
8" COMMERCIAL DRIVEWAY

6" RESIDENTIAL DRIVEWAY

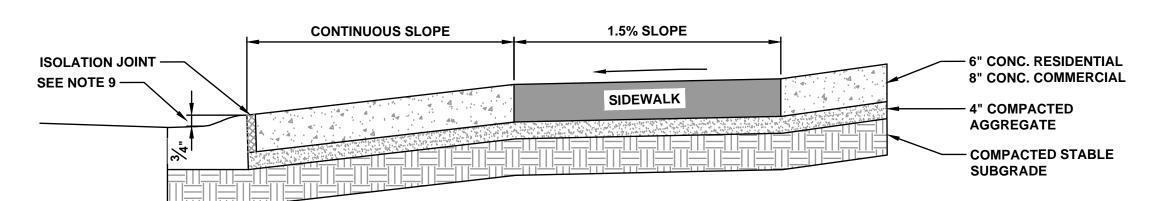
DRIVEWAY WITHOUT BUFFER NOT TO SCALE

GENERAL NOTES

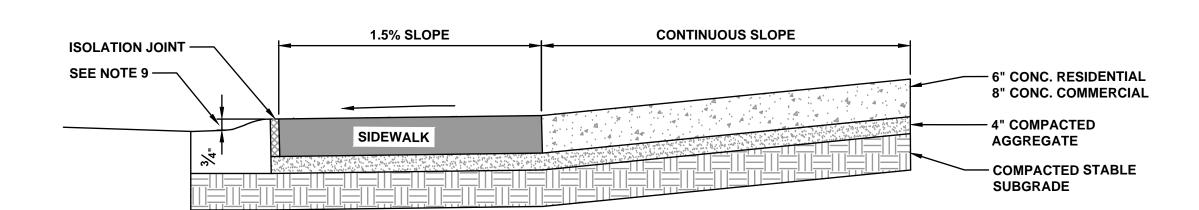
- 1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE
- **GRADED AGGREGATE BASE.**
- 2. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
- JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
- KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
- COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX. RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER
- CONCRETE MIXES NEED TO BE APPROVED BY CITY INSPECTOR. 7. A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
- 8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER 9. $\frac{3}{4}$ " FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL
- FLOWLINE OF CURB.
- 10. SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY. 11. THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.



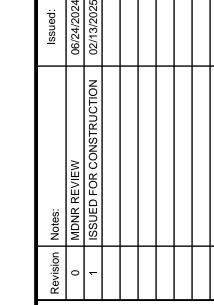
DRIVEWAY TYPICAL SECTION (NO SIDEWALK OR SHARED-USE PATH) NOT TO SCALE



DRIVEWAY TYPICAL SECTION (SIDEWALK OR SHARED-USE PATH WITH BUFFER) NOT TO SCALE



DRIVEWAY TYPICAL SECTION (SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)

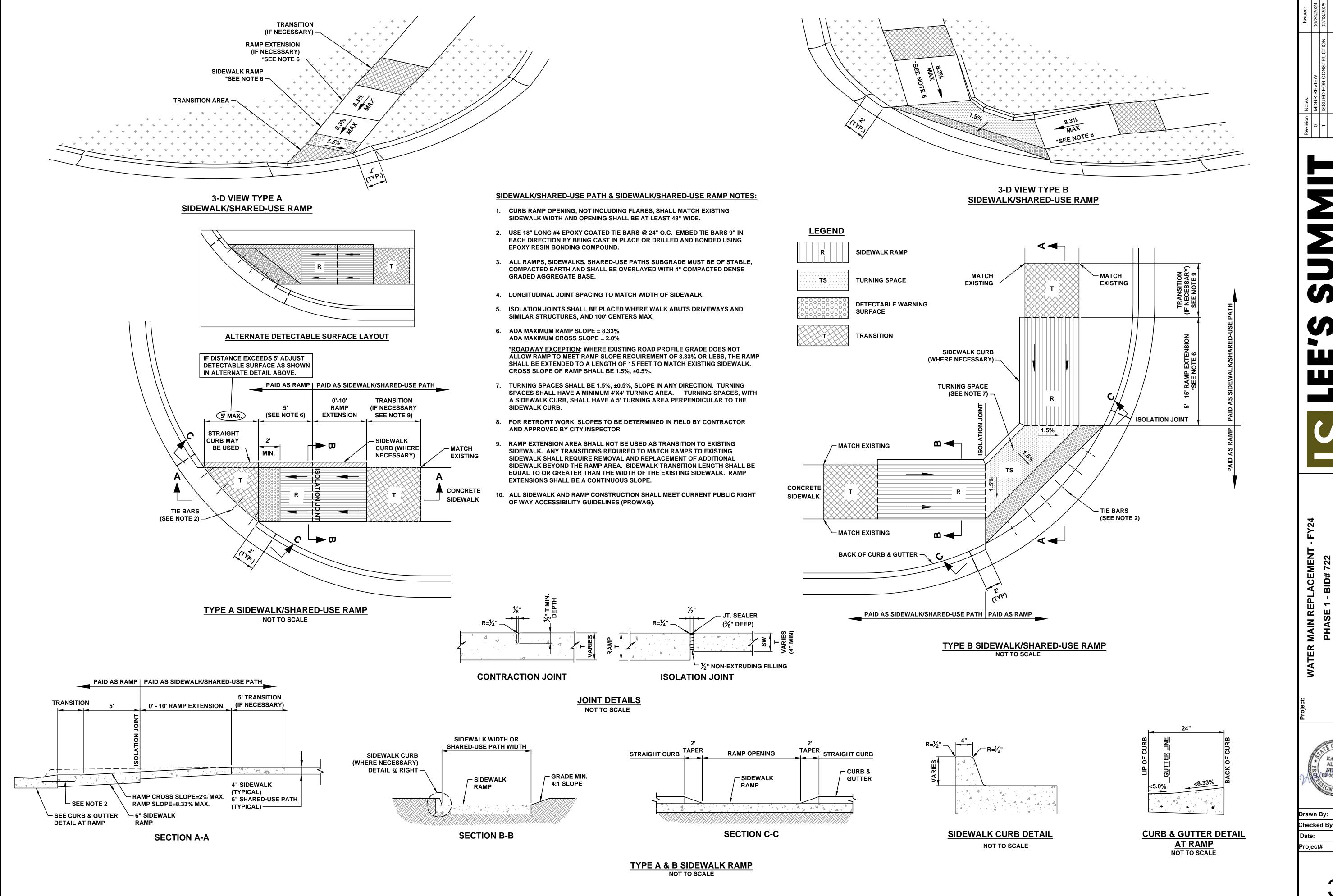


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JACKSON SUMMIT.



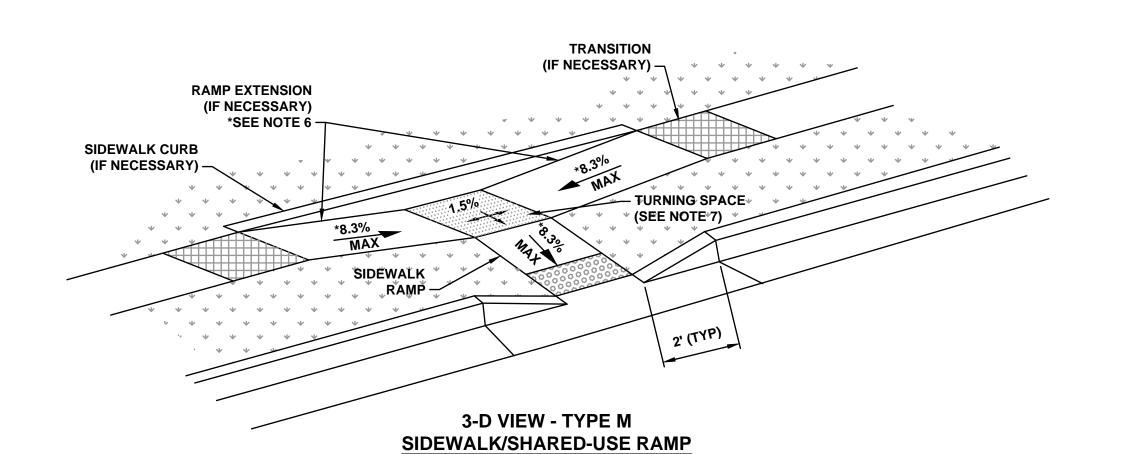
Drawn By: Checked By: 02/22/2024 Project#

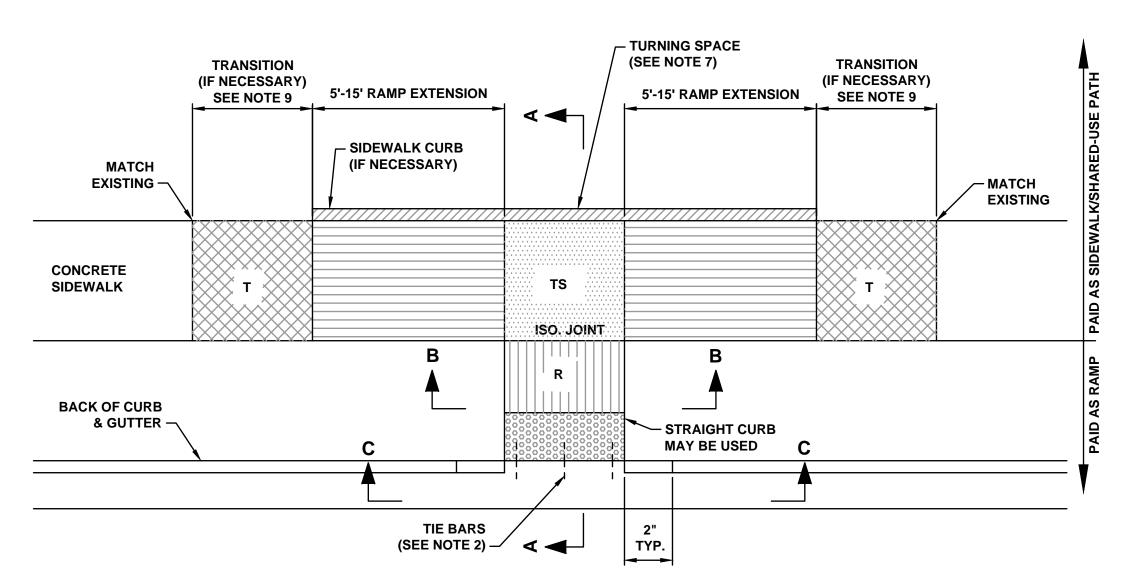


COUNT SUMMIT.

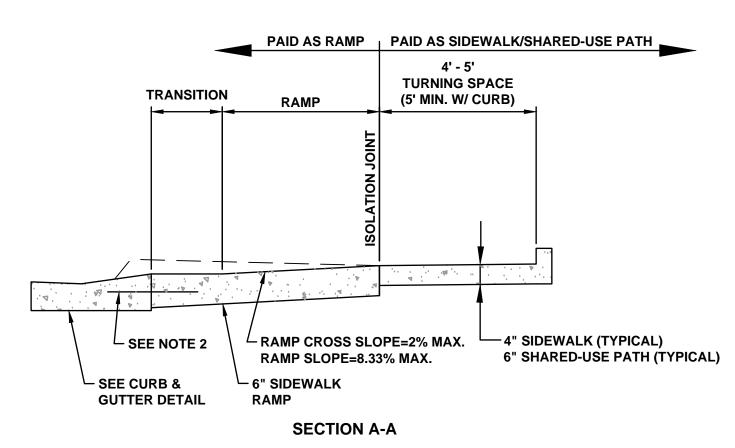


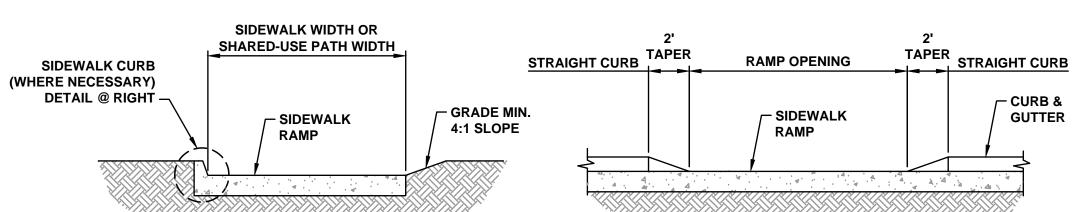
CNS KLA Checked By: 02/22/2024 722





TYPE M SIDEWALK/SHARED-USE RAMP NOT TO SCALE

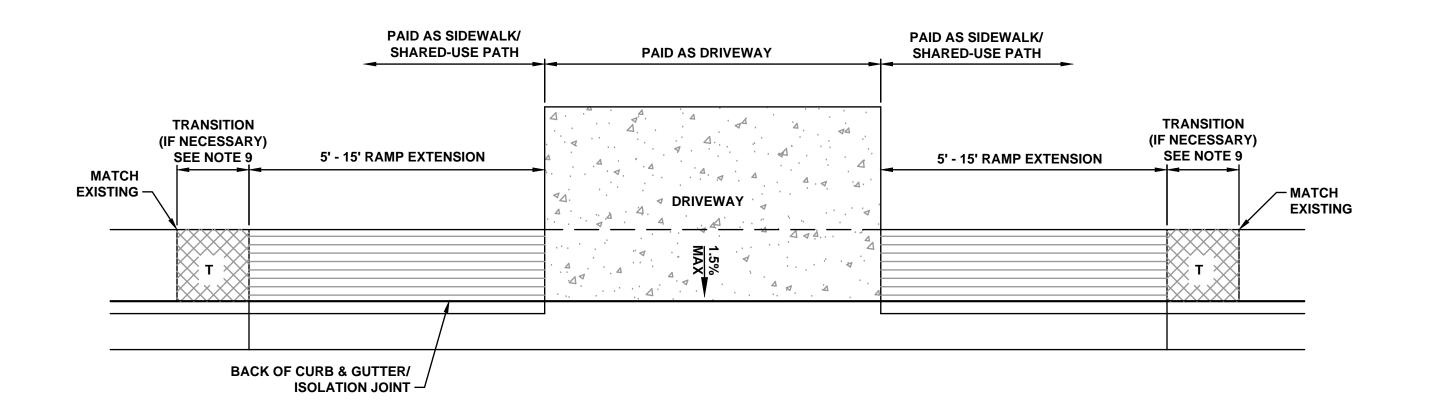




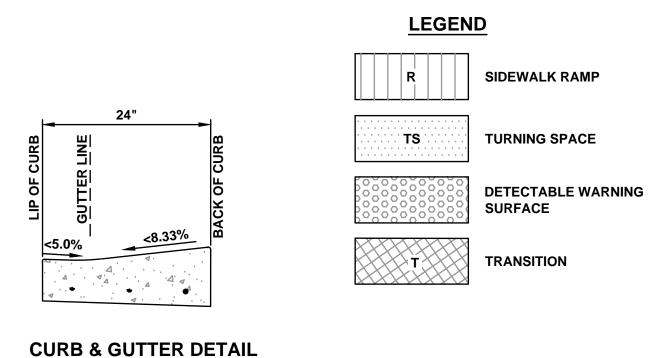
SECTION B-B

SECTION C-C

DRIVEWAY 1,5% RAMP EXTENSION (IF NECESSARY) SEE NOTE 6 3-D VIEW - SIDEWALK/SHARED-USE RAMP AT DRIVEWAY WITH ADJOINING CURB



SIDEWALK/SHARED USE RAMP AT DRIVEWAY WITH ADJOINING CURB



AT RAMP

NOT TO SCALE

A A A . . . A . A . A . A

SIDEWALK CURB DETAIL

NOT TO SCALE

SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

- 1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
- 2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
- 3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
- 4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
- 5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 100' CENTERS MAX.
- 6. ADA MAXIMUM RAMP SLOPE = 8.33% ADA MAXIMUM CROSS SLOPE = 2.0%

*ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.

- 7. TURNING SPACES SHALL BE 1.5%, $\pm 0.5\%$, SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'X4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
- 8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
- 9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
- 10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).

 Revision
 Notes:
 Issued:

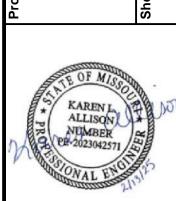
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 MDNR REVIEW
 06/24/2024

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 ISSUED FOR CONSTRUCTION
 02/13/2025



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PHASE 1 - BID# 722 -EE'S SUMMIT. JACKSON COUNT



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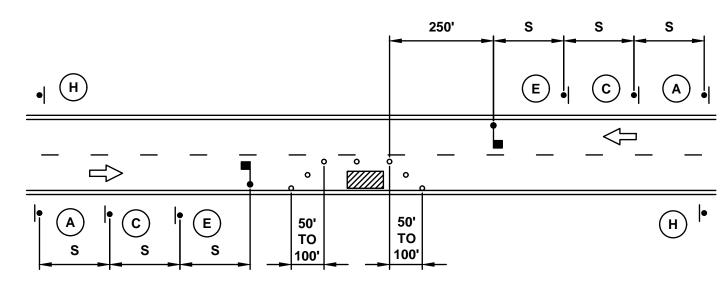
CITY

Drawn By: CNS
Checked By: KLA
Date: 02/22/2024
Project# 722

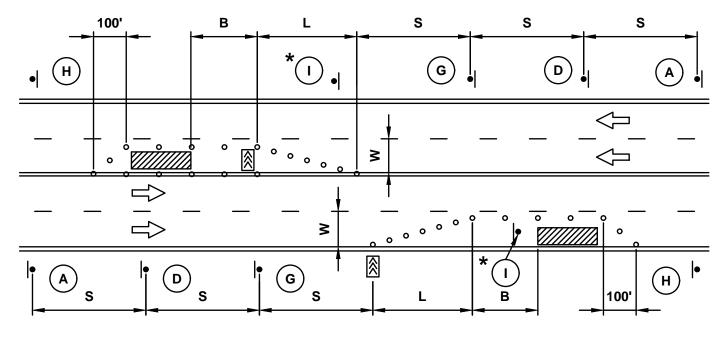
SYMBOL LEGEND

• - CHANNELIZER **WORK AREA ARROW PANEL** ■ - FLAGGER **BARRICADE**

DIRECTION OF TRAVEL

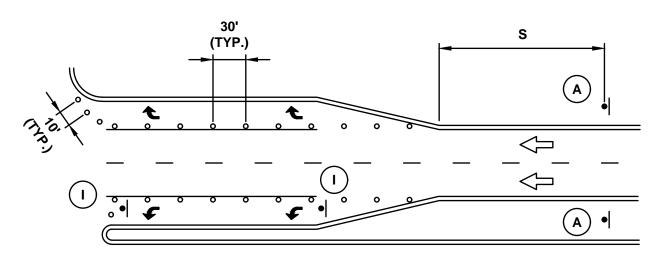


LANE CLOSURE - TWO LANE STREET

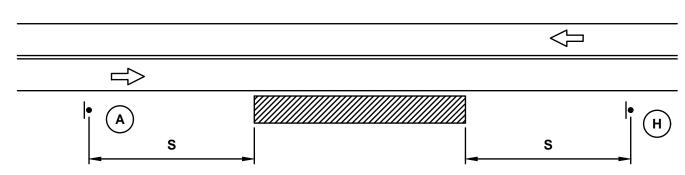


LANE CLOSURE - FOUR LANE STREET

*INSTALL SIGNS EVERY 200 FEET THROUGHOUT THE CLOSED LANE OR AS NEEDED



TURN LANE CLOSURE

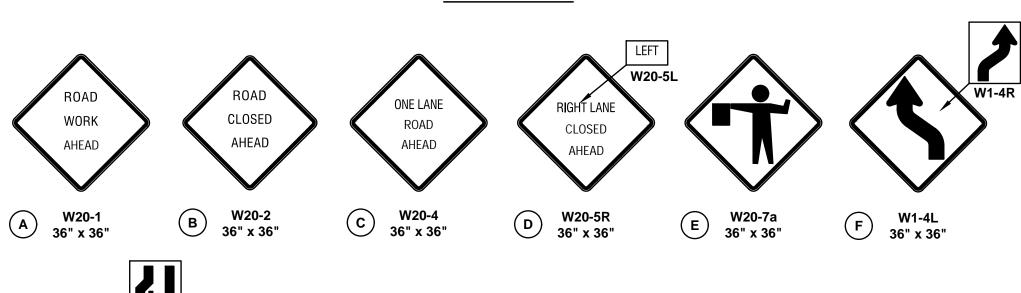


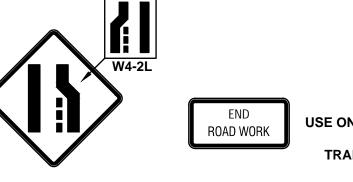
TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET

LONGITUDINAL	OR LENGTH OF BUFFER SPACE B"	MAXIM	UM CHANNELIZER	SPACING
SPEED LIMIT (MPH)	LENGTH (FEET)	SPEED LIMIT (MPH)	WITHIN TAPER (FEET)	OUTSIDE TAPER (FEET)
		25	25	50
25	35	30	30	60
30	55	35	35	70
35	85	40	40	80
40	120	45	45	90
45	170	_	ı	

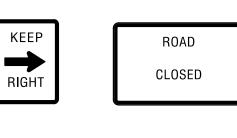
	TAPER	RDIMENSION	S (FEET)		SIGN SPA	CING "S"
SPEED LIMIT (MPH)		I TAPER LEN		MINIMUM NUMBER OF	SPEED LIMIT (MPH)	SPACING (FEET)
(10	11	12	CHANNELIZERS	((. == . ,
25	105	115	125	6	25	100
30	150	165	180	7	30-35	250
35	205	225	245	8	40	350
40	270	295	320	9		
45	450	495	540	13		

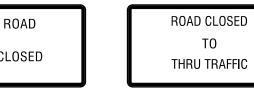
SIGN LEGEND







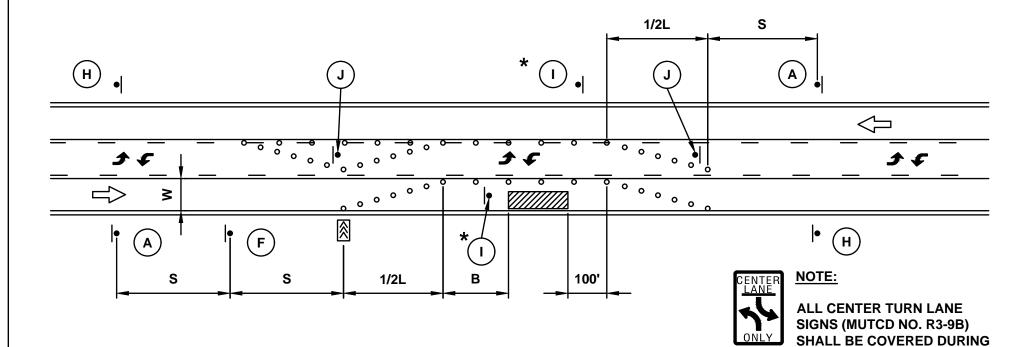




R3-9b LANE CLOSURE

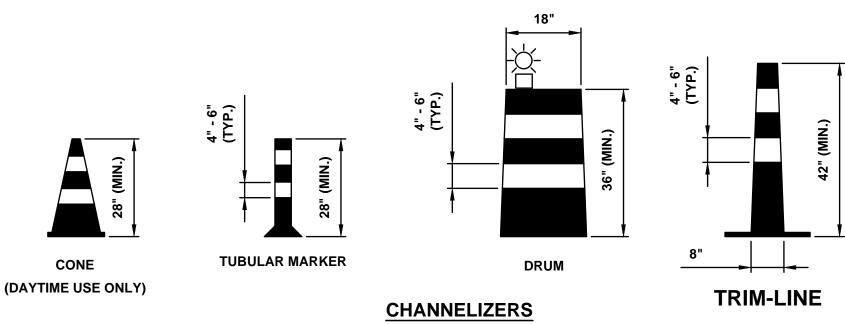
THRU TRAFFIC

G W4-2R 36" x 36"



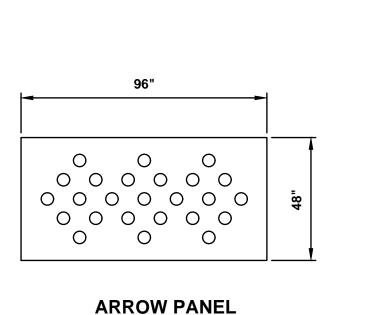
LANE CLOSURE - THREE LANE STREET

*INSTALL SIGNS EVERY 200 FEET THROUGHOUT THE CLOSED LANE OR AS NEEDED



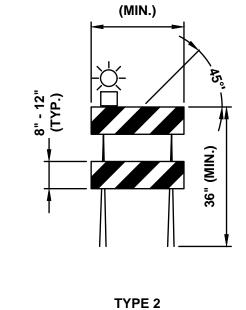
NOTE:

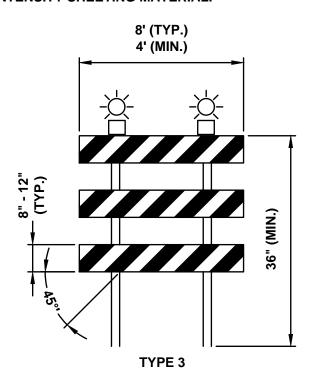
WHITE BANDS ON BARRICADES AND CHANNELIZERS SHALL BE MADE FROM HIGH INTENSITY SHEETING MATERIAL.



(OPTIONAL ON TWO LANE AND THREE LANE

STREETS WITH SPEEDS LESS THAN 35 MPH)

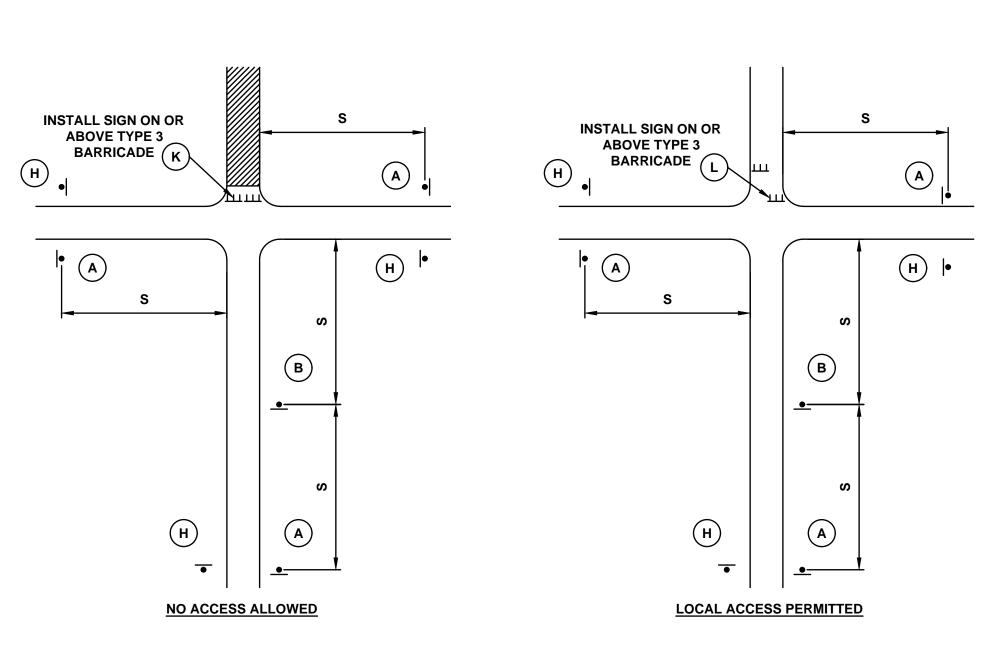




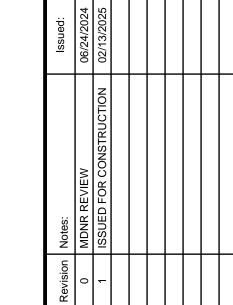
BARRICADES

GENERAL NOTES:

- ALL SIGNS, BARRICADES, CHANNELIZERS, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TRAFFIC CONTROL DEVICES SHALL BE STANDARD IN SIZE, SHAPE, COLOR, AND MESSAGE, IN GOOD CONDITION. AND RETRO-REFLECTORIZED. ALL SIGNS SHALL BE SECURELY MOUNTED WITH HEIGHT AND LATERAL LOCATION AS DESCRIBED IN THE MUTCD.
- WARNING LIGHTS SHALL BE USED ON BARRICADES IN PLACE AT NIGHT AND ON WARNING SIGNS WHICH ALERT DRIVERS ABOUT A CHANGE IN ALIGNMENT, TRAFFIC CONTROL, LANE CLOSURE, OR ROAD
- FLAGGERS SHALL BE USED WHERE INDICATED ON THE PLANS, WHERE CONSTRUCTION VEHICLES INTERACT WITH NORMAL TRAFFIC, OR WHERE CONSTRUCTION ACTIVITIES IMPOSE A RESTRICTION ON TRAFFIC, AS DIRECTED BY THE CITY TRAFFIC ENGINEER. WHERE FLAGGERS ARE USED, ADVANCE SIGNING SHALL BE ERECTED AS SHOWN IN THE DETAILS OR AS SPECIFIED IN THE MUTCD. FLAGGERS SHALL MEET THE REQUIREMENTS IN THE MUTCD IN REGARD TO CHARACTER, TRAINING, ATTIRE, AND
- TRIM-LINES ARE THE CITY'S PREFERRED CHANNELIZING DEVICE. CONES MAY NOT BE USED AT
- TRAFFIC CONTROL DEVICES NOT IN USE OR NOT APPLICABLE SHALL BE EITHER COVERED OR REMOVED FROM THE WORK AREA.
- THE CONTRACTOR SHALL USE BARRICADES, STREET PLATES, OR FENCING AS NEEDED TO EFFECTIVELY SHIELD PEDESTRIAN AND VEHICULAR TRAFFIC FROM EXPOSED OBJECTS, EXCAVATIONS, AND **CONSTRUCTION ACTIVITIES.**
- ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS AND SIDE STREETS UNLESS NOTED OTHERWISE ON THE PLANS.
- NO STREET SHALL BE CLOSED WITHOUT THE APPROVAL OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT LEAST 10 DAYS IN ADVANCE OF ANY STREET CLOSURE. IF A DETOUR ROUTE AROUND THE CLOSURE IS TO BE PROVIDED, ALL DETOUR
- SIGNING SHALL BE AS SHOWN ON A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER. 10. CONSTRUCTION VEHICLES PARKED ALONG STREETS SHALL BE LOCATED WITHIN THE WORK AREA (TRAFFIC CONTROL) OR WHERE OTHERWISE NORMALLY PERMITTED. CONSTRUCTION MATERIALS, INCLUDING TRAFFIC CONTROL AND VEHICLES SHALL NOT RESTRICT SIGHT DISTANCE FOR VEHICLES
- **EXITING AT STREETS OR DRIVES.** 11. CONSTRUCTION MATERIALS SHALL BE KEPT OFF OF SIDEWALKS, CONSOLIDATED IN ONE LOCATION WITHIN CITY RIGHT-OF-WAY. AND REMOVED DAILY UNLESS OTHERWISE APPROVED BY THE INSPECTOR. DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS ON STREETS AND SIDEWALKS SHALL BE REMOVED
- 12. THE CONTRACTOR SHALL NOT PERFORM ANY WORK THAT WILL RESTRICT VEHICULAR TRAFFIC IN ANY WAY BETWEEN THE HOURS OF 7:00 A.M. AND 9:00 A.M. OR 4:00 P.M. AND 6:00 P.M. MONDAY THROUGH
- FRIDAY UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. 13. ALL TRAVEL LANES SHOULD BE AT LEAST 11 FEET WIDE UNLESS OTHERWISE AUTHORIZED BY THE CITY TRAFFIC ENGINEER. A "NARROW LANES" SIGN SHALL BE INSTALLED IN ADVANCE OF A LANE WIDTH
- **REDUCTION TO LESS THAN 11 FEET.** 14. ALL EDGE DROP-OFFS OF MORE THAN 2 INCHES AND LESS THAN 4 INCHES SHOULD BE PROTECTED BY A WEDGE OR BARRIER AND ALL EDGE DROP-OFFS GREATER THAN 4 INCHES SHALL HAVE EDGE PROTECTION (SEE TRAFFIC CONTROL SPECIFICATIONS FOR EDGE TREATMENT REQUIREMENTS).
- 15. THE "WORKERS" SYMBOLIC SIGN (MUTCD NO. W21-1A) MAY BE USED INSTEAD OF THE "ROAD WORK AHEAD" SIGN FOR WORK WITH A DURATION OF 12 HOURS OR LESS. THE "END ROAD WORK" SIGN IS NOT REQUIRED TO BE INSTALLED AFTER THE "WORKERS" SIGN.
- 16. NO TRAFFIC SIGNAL SHALL BE ALTERED OR MODIFIED IN ANY WAY WITHOUT A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES ON AN AROUND-THE-CLOCK BASIS, WHETHER OR NOT WORK IS ACTIVELY BEING PURSUED AND ANY DEFICIENCIES NOTED SHALL BE CORRECTED IMMEDIATELY.
- 18. THE TRAFFIC CONTROL REQUIREMENTS SHOWN ON THESE PLANS ARE MINIMUM REQUIREMENTS ONLY AND DO NOT ATTEMPT TO ADDRESS IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED. IN NO WAY DO THE REQUIREMENTS SHOWN ON THESE PLANS RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR SELECTING THE PROPER TRAFFIC CONTROL DEVICES AND IMPLEMENTATION PROCEDURES THAT WILL ASSURE THE SAFETY OF DRIVERS, PEDESTRIANS, AND **WORKERS AT ALL TIMES.**
- 19. SHOULD THE CONTRACTOR FAIL TO ENFORCE THE TRAFFIC CONTROL PLAN OR FAIL TO CLEAN, REPLACE OR OTHERWISE MAINTAIN THE TRAFFIC CONTROL DEVICES WHEN DIRECTED TO DO SO BY THE CITY TRAFFIC ENGINEER OR REPRESENTATIVE, THE CITY MAY TAKE ONE OR MORE OF THE FOLLOWING **ACTIONS:**
 - A. EMPLOY ANOTHER AGENCY TO CORRECT DEFICIENCIES IN TRAFFIC CONTROL DEVICES AND DEDUCT
- THE COST FROM THE CONTRACTOR'S PAY ESTIMATE.
- B. STOP THE WORK UNTIL DEFICIENCIES ARE CORRECTED. C. SUSPEND ALL PAY ESTIMATES UNTIL DEFICIENCIES ARE CORRECTED, OR
- D. PLACE THE CONTRACTOR IN DEFAULT.

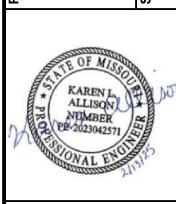


TYPICAL STREET CLOSURE



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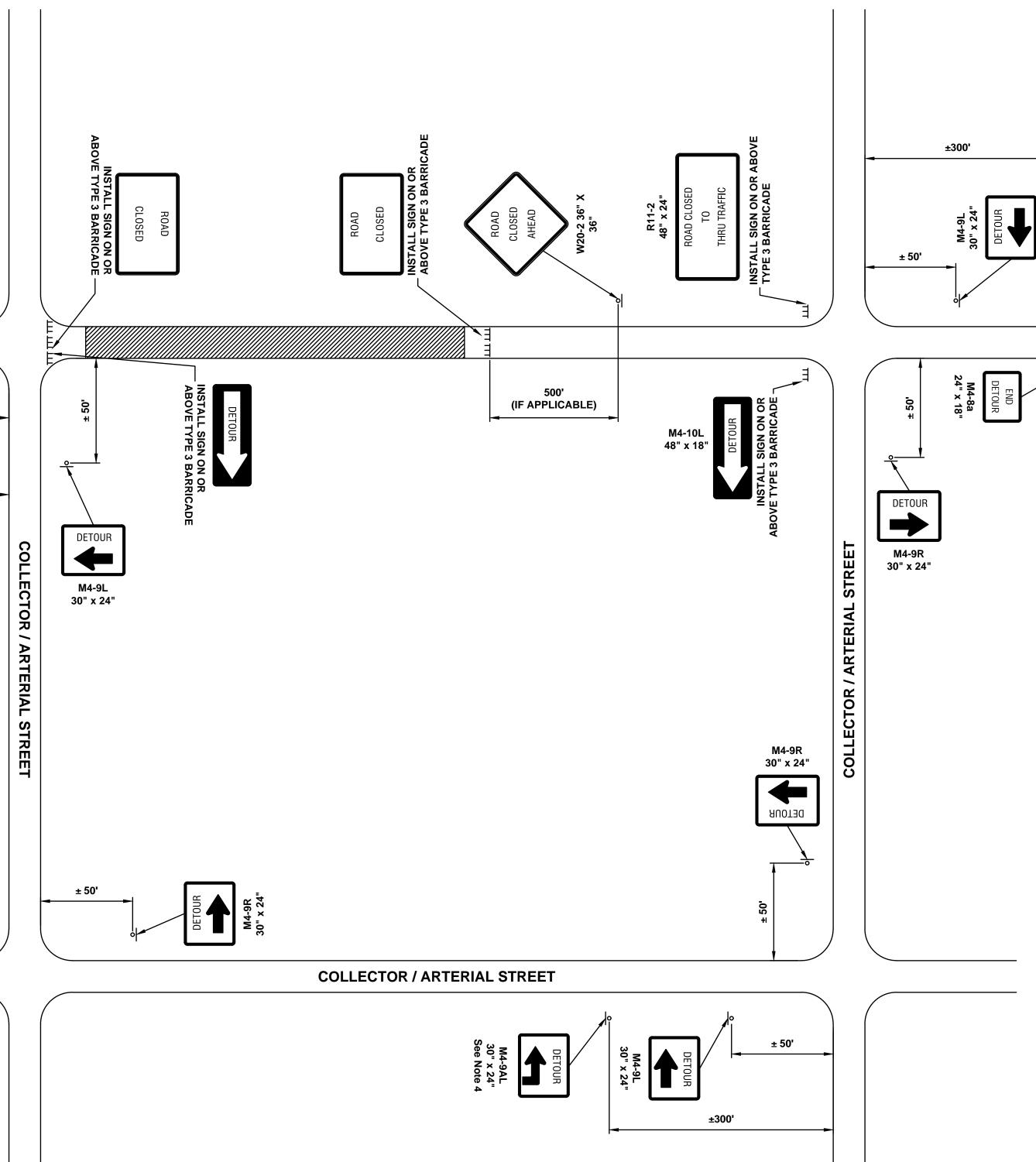
SUN CITY



Drawn By: Checked By: KLA 02/22/2024 Project# 722

NOTES: 1. ALL SIGNS, BARRICADES, CHANNELIZERS, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC **CONTROL DEVICES (MUTCD).** 2. DETOUR ROUTES ARE NOT REQUIRED TO BE POSTED FOR THE CLOSURE OF A LOCAL STREET. 3. TRAFFIC SHALL ONLY BE DETOURED VIA ARTERIAL AND/OR COLLECTOR STREETS UNLESS OTHERWISE APPROVED BY THE CITY TRAFFIC ENGINEER. 4. WHEN A DETOUR ROUTE REQUIRES VEHICLES TO MAKE A TURN AT AN INTERSECTION WITH MORE THAN ONE APPROACH LANE, DETOUR SIGNS WITH ADVANCE ARROWS WILL BE REQUIRED AT LEAST 300 FEET IN ADVANCE OF THE INTERSECTION. 5. ADDITIONAL DETOUR SIGNAGE MAY BE REQUIRED BY THE CITY TRAFFIC ENGINEER. 6. REQUESTS TO USE THE CITY'S PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE MADE TO THE PUBLIC WORKS OPERATIONS DIVISION AND THE CITY TRAFFIC ENGINEER AT LEAST FIVE DAYS IN ADVANCE. COLLECTOR / ARTERIAL STREET

M4-9L 30" x 24"



TRAFFIC CONTROL QUANTITIES

BID ITEM	UNITS	QUANTITY
ARROW PANELS	EA	х
TYPE 2 BARRICADES	EA	Х
TYPE 3 BARRICADES	EA	Х
CHANNELIZERS	EA	Х
CONSTRUCTION SIGNS	SF	Х
TEMPORARY CONCRETE TRAFFIC BARRIER	LF	Х
TEMPORARY PAVEMENT MARKINGS		
4" WHITE LINE	LF	Х
4" YELLOW LINE	LF	Х
24" WHITE LINE	LF	Х
WARNING LIGHTS	EA	х

NOTES:

THESE APPROXIMATE QUANTITIES ARE PROVIDED SOLELY FOR THE CONTRACTOR'S CONVENIENCE, AND ARE NOT GUARANTEED TO BE A COMPLETE LIST OF MATERIALS NECESSARY FOR TEMPORARY TRAFFIC CONTROL DURING ALL CONSTRUCTION ACTIVITIES.

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