

MISSOURI STATE PLANE COORDINATE SYSTEM
(NAD) 1983, MISSOURI, WEST ZONE

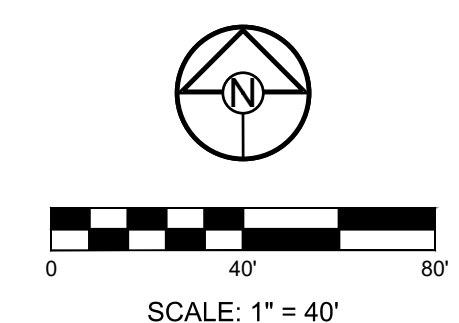
ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

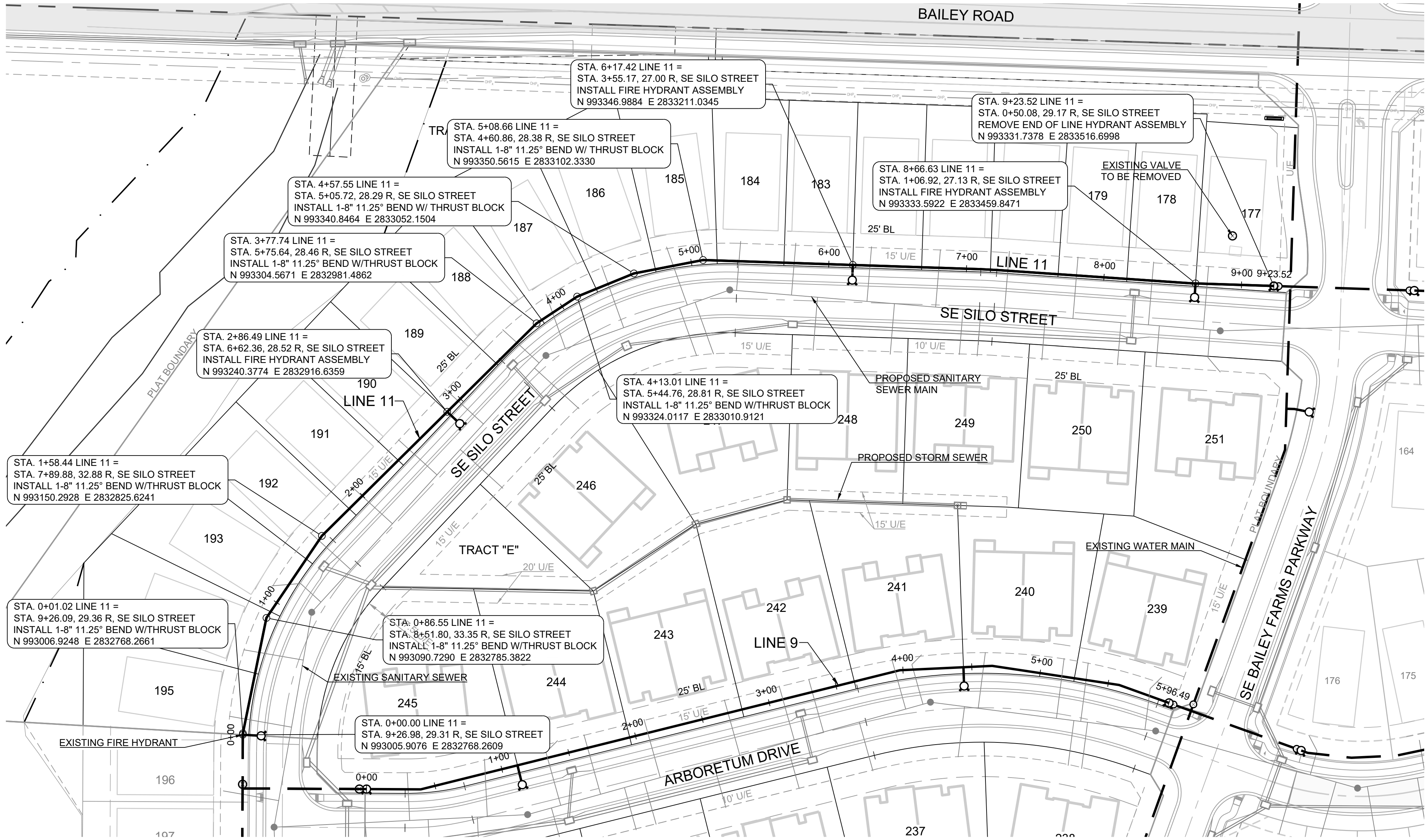
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

SE BAILEY FARMS PKWY & SE ARBORETUM DRIVE
LEE'S SUMMIT, MO

[illegible]

2





MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

NOTES:

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BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM (NAD) 1983, MISSOURI, WEST ZONE

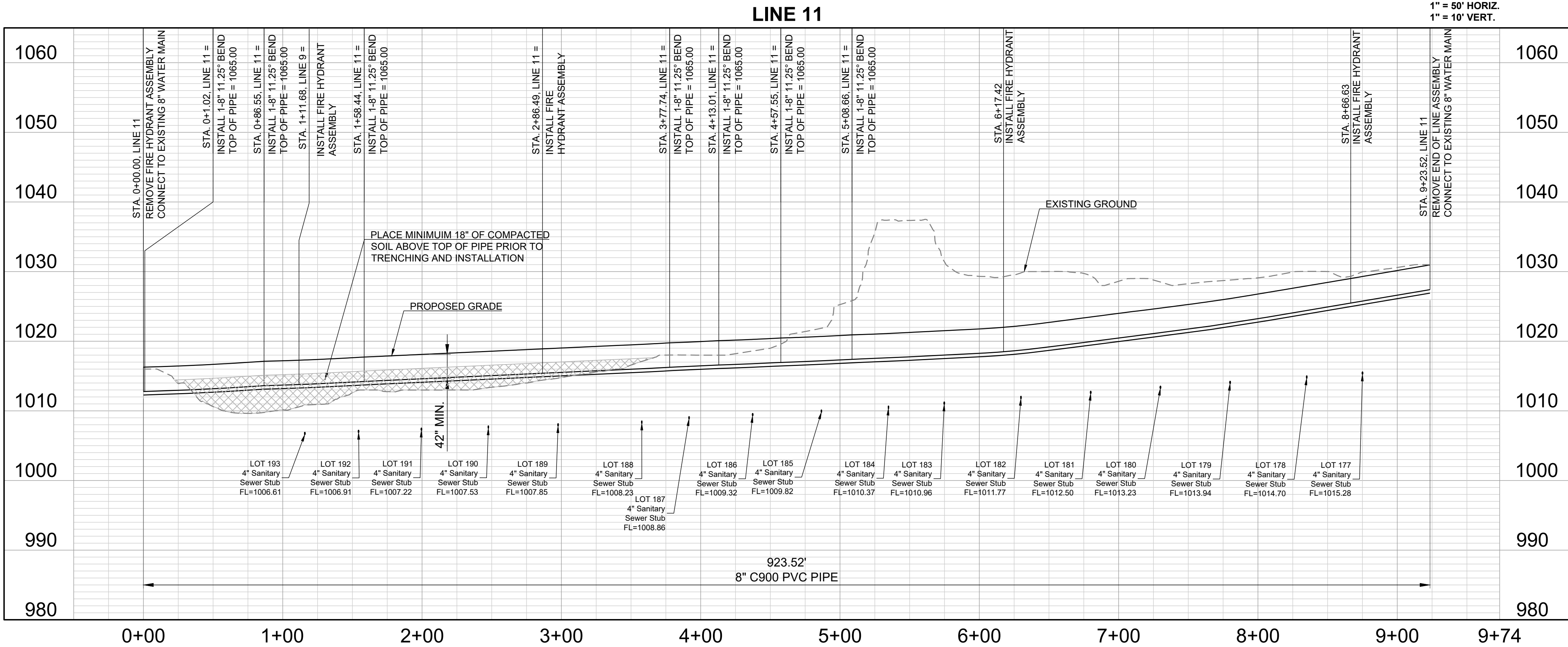
SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
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Missouri State Certified of Authority
#E2002003600-F #LAC2001005237 #LS200200859-F

PREPARED BY:

JAMES L. LONG
NUMBER PE-2014010025
8/18/2025
PROFESSIONAL ENGINEER

SCHLAGEL & ASSOCIATES, P.A.

CORNERSTONE AT BAILEY FARMS, 2ND PLAT
WATER MAIN PLANS
SE BAILEY FARMS PKWY & SE ARBORETUM DR
LEE'S SUMMIT, MO

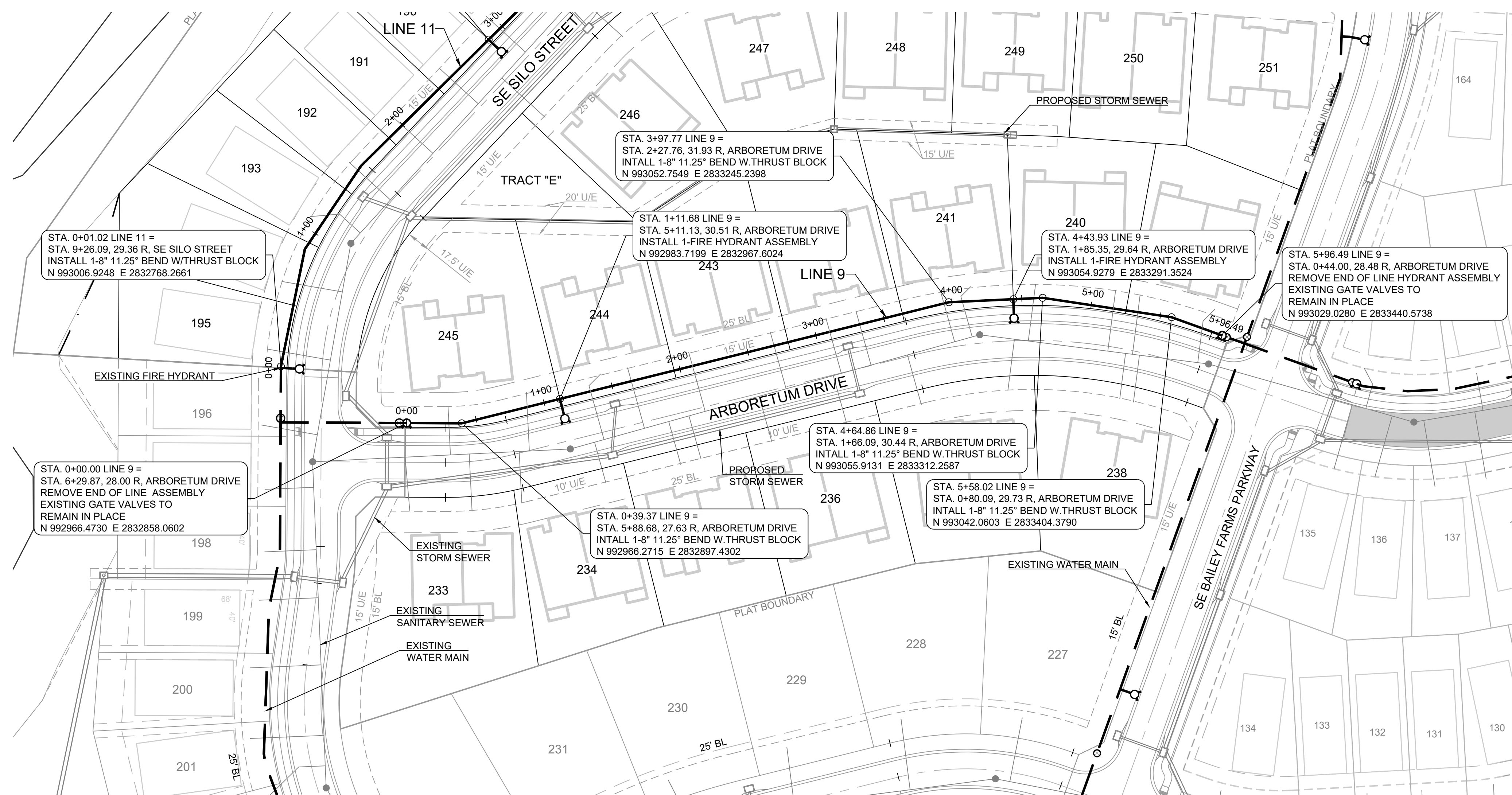


REVISION DATE	DESCRIPTION
08/01/2025	CITY COMMENTS
08/18/2025	CITY COMMENTS
08/18/2025	CITY COMMENTS
08/18/2025	CITY COMMENTS
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LINE 11 PLAN & PROFILE

SHEET

3

**MISSOURI GEOGRAPHIC REFERENCE SYSTEM**
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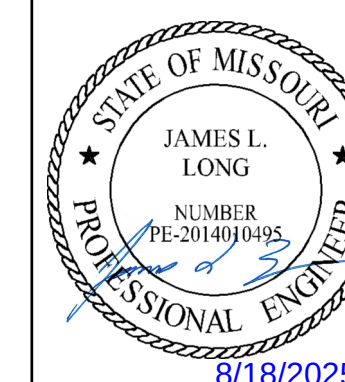
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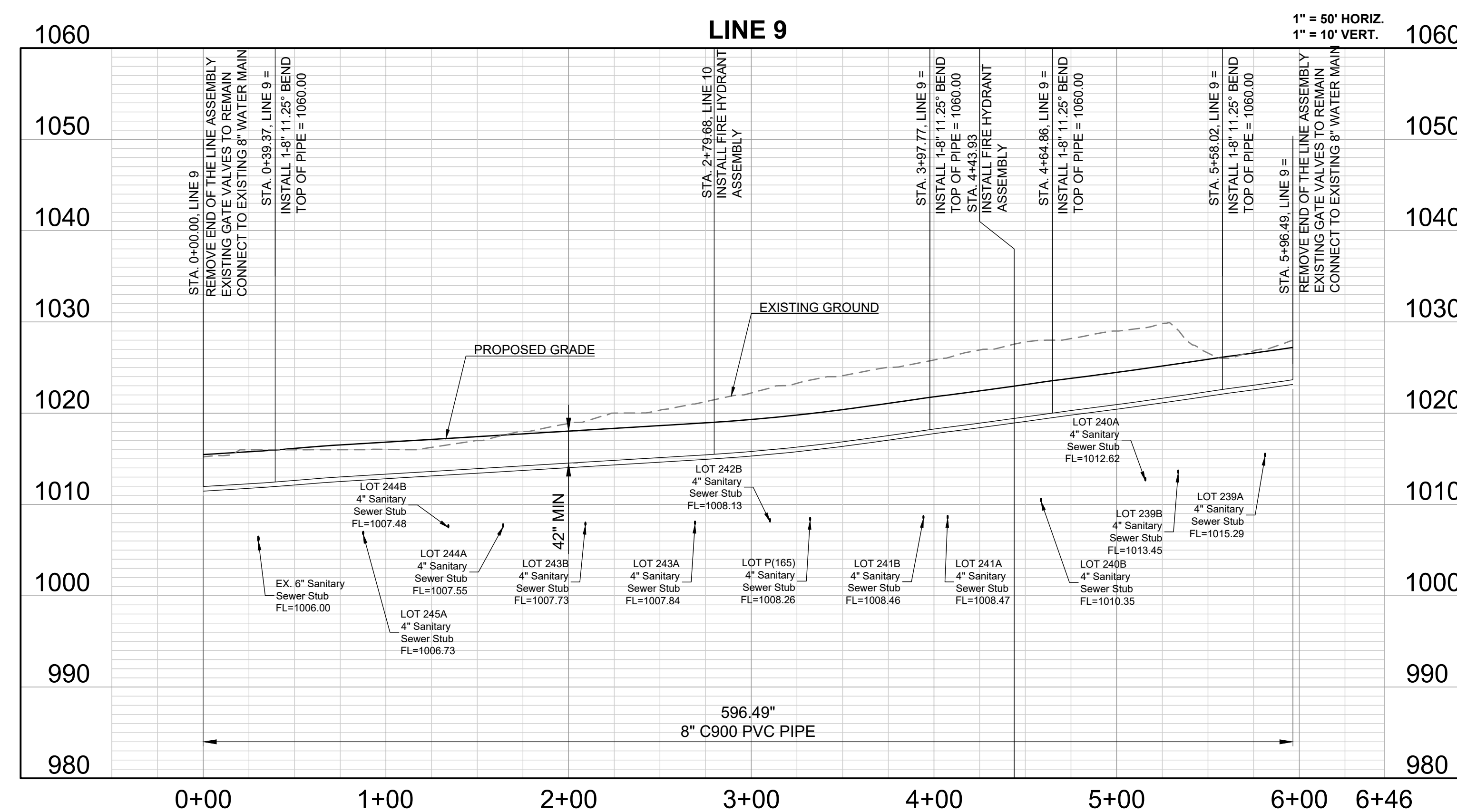
PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

CORNERSTONE AT BAILEY FARMS, 2ND PLAT
WATER MAIN PLANS

SE BAILEY FARMS PKWY & SE ARBORETUM DR
LEE'S SUMMIT, MO



LINE 9 PLAN &
PROFILE

SHEET

4

POURED CONCRETE BLOCKS (TYP.)

UNDISTURBED EARTH

BEARING AREA (TYP.)

BOND BREAKER (TYP. ALL BLOCKS)

PLAN

1/4" BOND BREAKER

1/2" DIAMETER

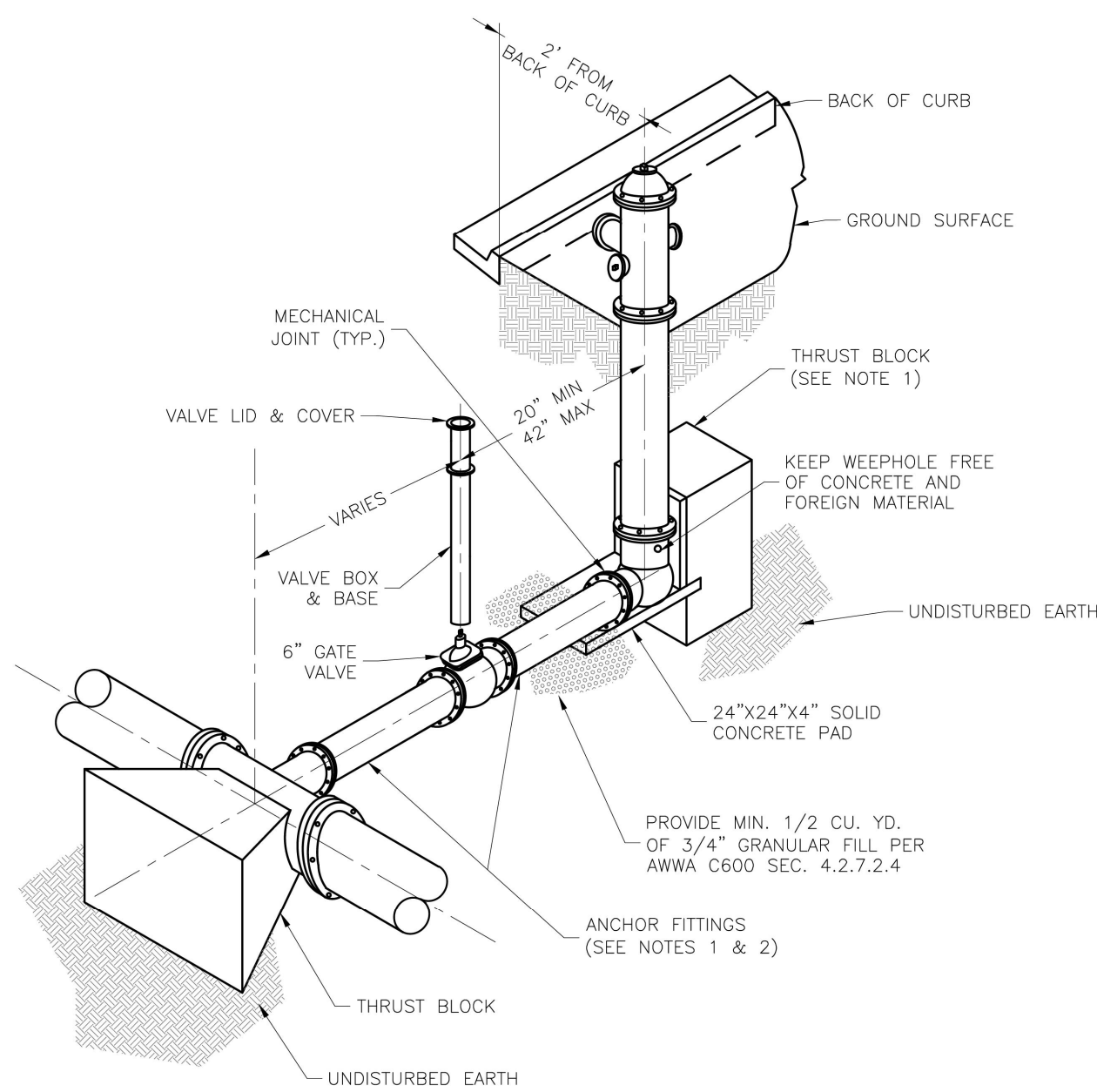
SECTION A

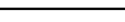
	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 2202 SE GREEN STREET LEE'S SUMMIT, MO 64063	Date: 08/2023 Drawn By: MJJ Checked By: KLY
	HORIZONTAL THRUST BLOCK	WAT-1

	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64603	Date: 08/2023 Drawn By: MF Checked By: KLY
	VERTICAL THRUST BLOCK	WAT-2

SECTION A-A

	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 S.E. GREEN STREET LEE'S SUMMIT, MO 64063	Date: 08/2023 Drawn By: MJH Checked By: KLY
	STRADDLE BLOCK	WAT-3



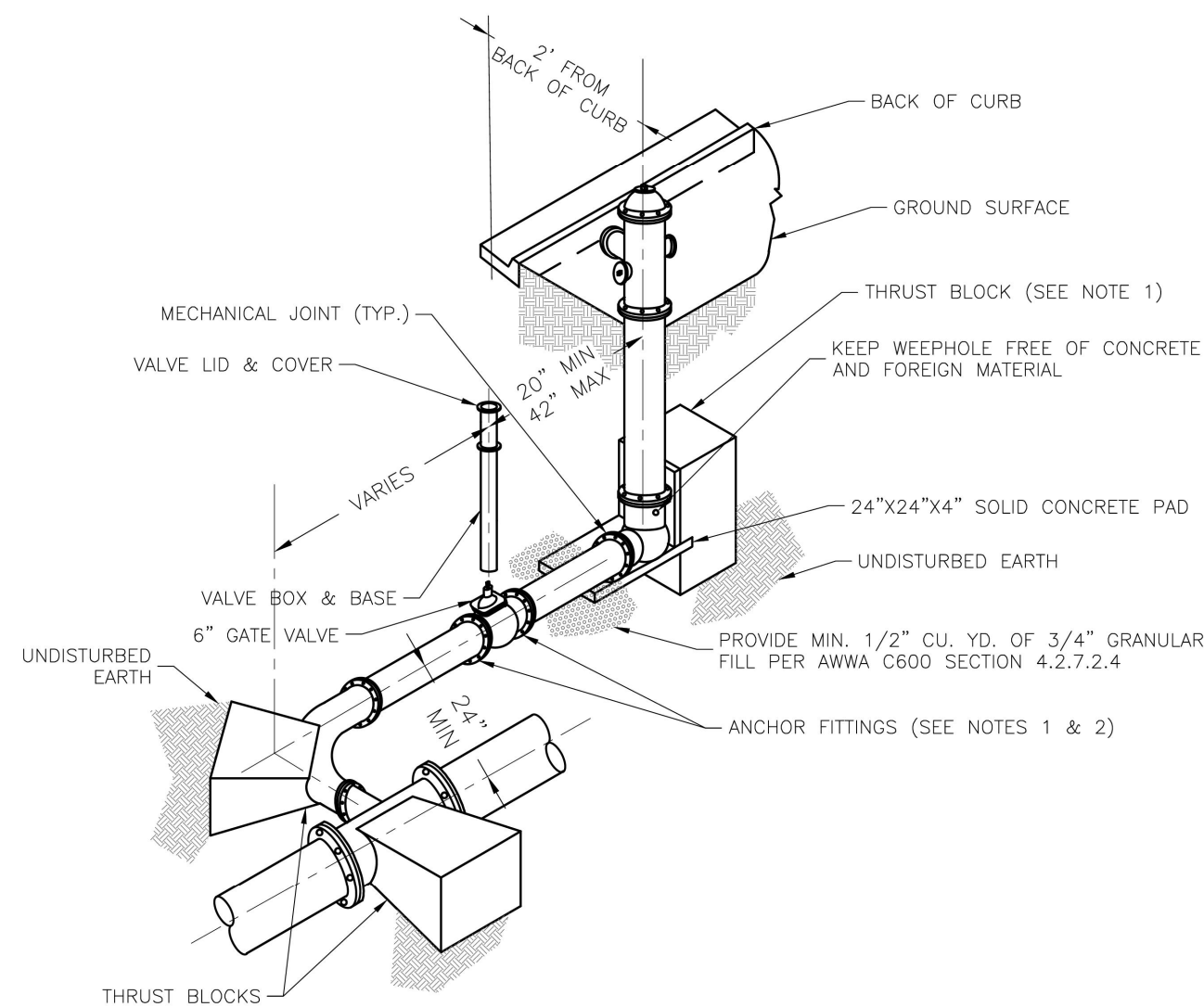
	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Date: 08/2023 Drawn By: MJF Checked By: KLY
	HYDRANT - STRAIGHT SET	WAT-7

RECOMMENDED MINIMUM TRENCH WIDTHS

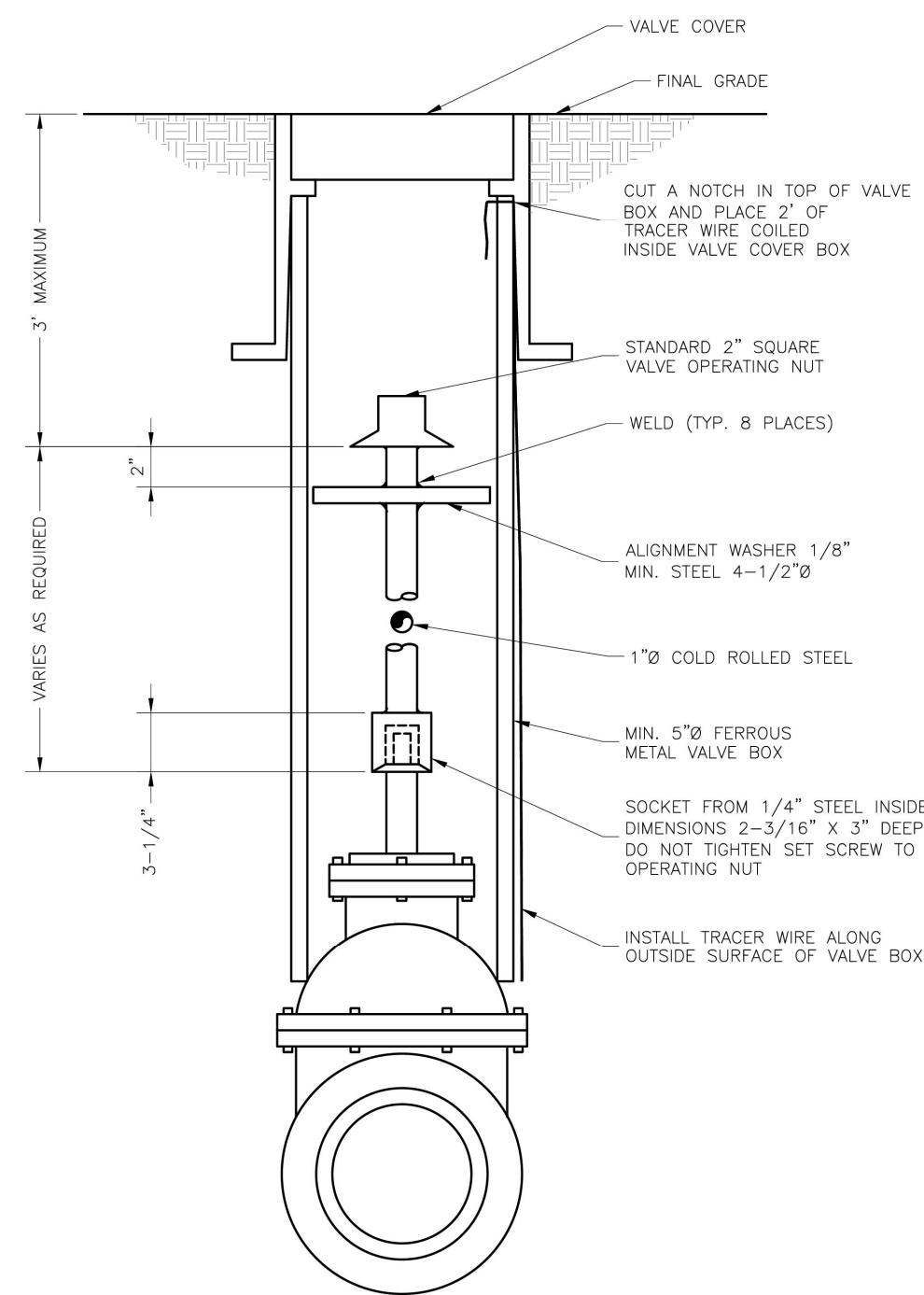
PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

6. **MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.



	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 S.E. GREEN STREET LEE'S SUMMIT, MO 64063	Date: 08/2023 Drawn By: MIF Checked By: KLY
	HYDRANT WITH 90 DEGREE BEND	WAT-8



	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	Date: 06/2023 Drawn By: MJF Checked By: KLY
	VALVE STEM EXTENSION AND VALVE BOX	WAT-9

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ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS

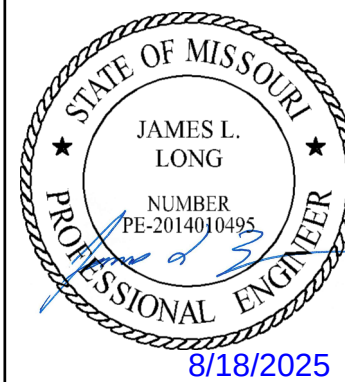
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Missouri State Certificate of Engineering
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	REVISION DATE	DESCRIPTION
DRAWN BY:	A	CITY COMMENTS
NCA	A	CITY COMMENTS
CHECKED BY:	A	
JLL	A	
DATE PREPARED:	A	
	A	
PROJ. NUMBER:	A	
	A	

WATER LINE DETAILS

SHEET

5