

THE VILLAS OF CHAPEL RIDGE-2ND PLAT

THE VILLAS OF CHAPEL RIDGE-2ND PLAT LOTS 43-74 and Tracts C-1 & D-1

WATER LINE CONSTRUCTION PLANS

Section 8, Township 48 North, Range 31 West

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

WATER:

1 ~ THE CONTRACTOR SHALL COORDINATE WITH THE DEVELOPMENT ENGINEERING INSPECTOR PRIOR TO ANY CONNECTIONS TO THE PUBLIC WATER SUPPLY.

2 ~ FIRE HYDRANTS SHALL BE OPTIC YELLOW WATEROUS "PACER" MODEL NO. WB-67-250 WITH NON-RISING STEM OR CITY ENGINEER APPROVED EQUAL. HYDRANTS SHALL HAVE A 5 1/4" VALVE WITH A 4 1/2" PUMPER NOZZLE AND 2 - 2 1/2" HOSE NOZZLES (LEFT HAND OPENING).

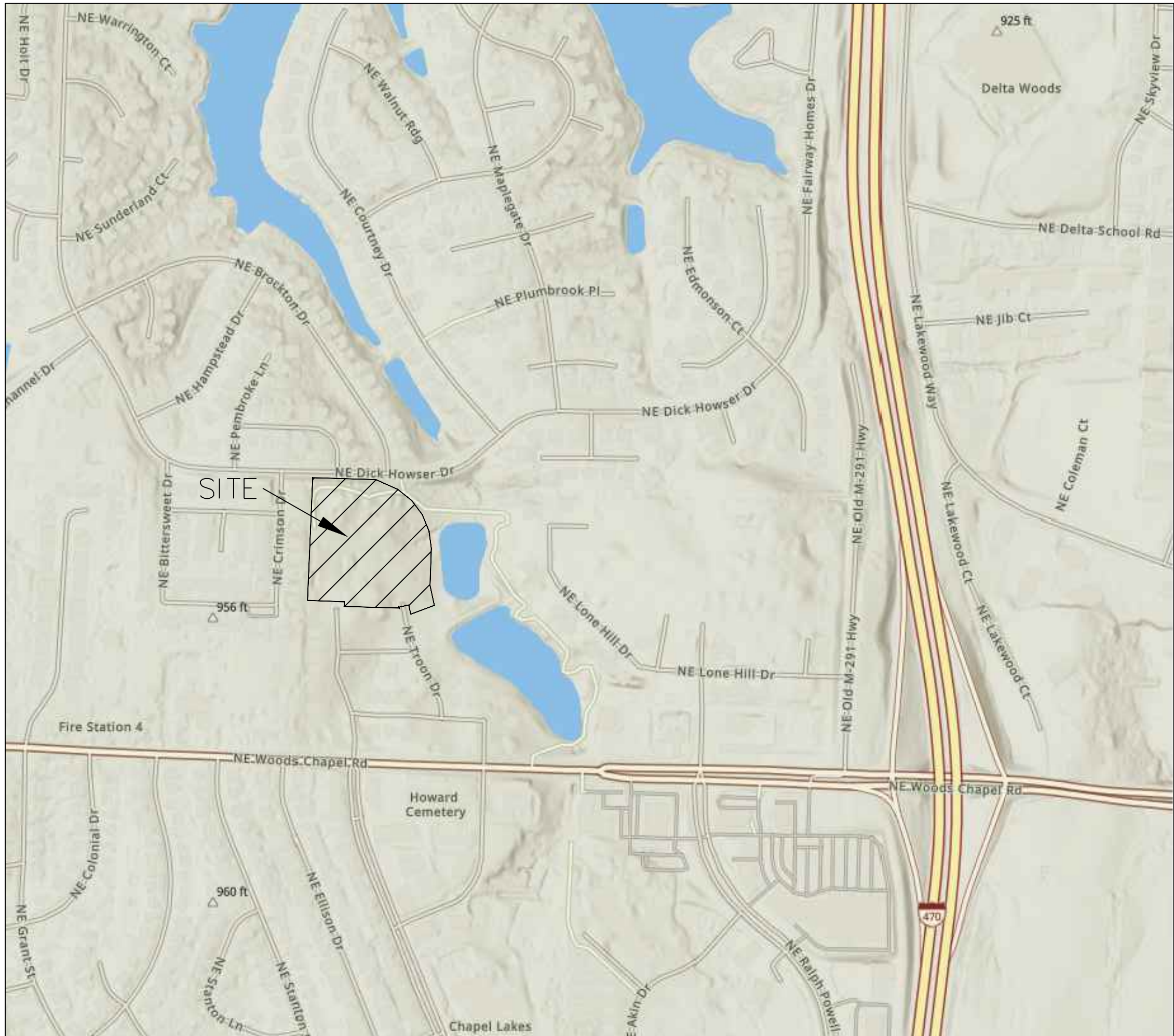
3 ~ GATE VALVES SHALL BE MUELLER NO. 2360 Series HUB END "O" RING SEAL NON-RISING STEM. VALVES 12" OR LARGER SHALL BE BUTTERFLY VALVES MANUFACTURED BY THE HENRY PRATT COMPANY OR CITY ENGINEER APPROVED EQUAL. LEFT HAND OPENING. MINIMUM 200# TESTING AWWA.

4 ~ ALL WATER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 42 INCHES. STREET GRADING SHALL BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION OF WATER MAINS.

5 ~ ALL BENDS, TEES AND FIRE HYDRANTS SHALL BE INSTALLED WITH SUITABLE CONCRETE THRUST BLOCKS POURED IN PLACE AGAINST UNDISTURBED EARTH AND PER CITY OF LEES SUMMIT AND APWA STANDARDS.

6 ~ THE MINIMUM SEPARATION BETWEEN THE PROPOSED WATER MAIN AND SANITARY OR STORM SEWERS IS AS FOLLOWS:
A ~ SANITARY SEWERS: HORIZONTAL = 10 FEET - VERTICAL = 18 INCHES
B ~ STORM SEWERS: HORIZONTAL = 10 FEET - VERTICAL = 18 INCHES
THESE SEPARATIONS SHALL PREVAIL OVER ANY DATA SHOWN IN THESE PLANS AND THE CONTRACTOR SHALL INSTALL BENDS OR OTHER FITTINGS AS NECESSARY TO ACHIEVE THE REQUIRED SEPARATIONS.

7 ~ ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813



SITE LOCATION MAP

INDEX OF SHEETS:

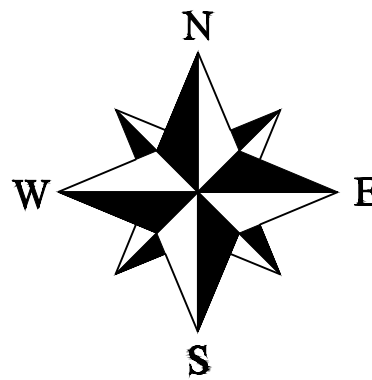
C.500 ~ COVER SHEET
C.501 ~ WATER MAIN GENERAL LAYOUT
C.502 ~ WATER MAIN LINE PLAN & PROFILE
C.503 ~ WATER MAIN LINE PLAN & PROFILE
C.504 ~ DETAIL SHEET

Summary of Quantities:

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
WATER		
FIRE HYDRANT ASSEMBLY	UNIT	5.00
8" C-900 CLASS 200 PVC WATER LINE	LF	1,325.17
8" GATE VALVE/ VALVE BOX & COVER	UNIT	2.00
CONNECT TO EXISTING	UNIT	2.00

UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.
EVERGY ~ 298-1196
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483



LEGEND:
B/L ~ BUILDING SET-BACK
C/A ~ COMMON AREA
D/E ~ DRAINAGE EASEMENT
FND. ~ FOUND
L/E ~ LANDSCAPE EASEMENT
L.N.A. ~ LIMITS OF NO ACCESS
R/W ~ RIGHT OF WAY
SAN ~ SANITARY SEWER LINE
S/W ~ SIDEWALK
U/E ~ UTILITY EASEMENT
W ~ WATER LINE
ST ~ STORM SEWER LINE

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED AND THESE PLANS PREPARED IN ACCORDANCE WITH THE CURRENT DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE STATE OF MISSOURI. I FURTHER CERTIFY THAT THESE PLANS WERE DESIGNED IN ACCORDANCE TO AASHTO STANDARDS.

CITY OF LEE'S SUMMIT, MISSOURI

APPROVED: _____ DATE: _____

BY: _____
CITY ENGINEER

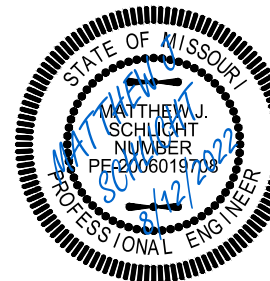


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

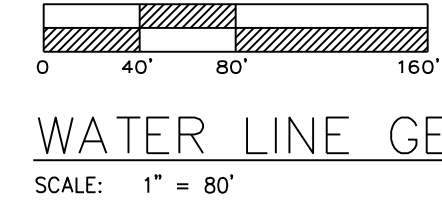
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Water Main Cover Sheet
Construction Plans for:
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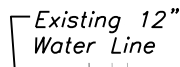


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 8/12/2022



SCALE: 1" = 80'



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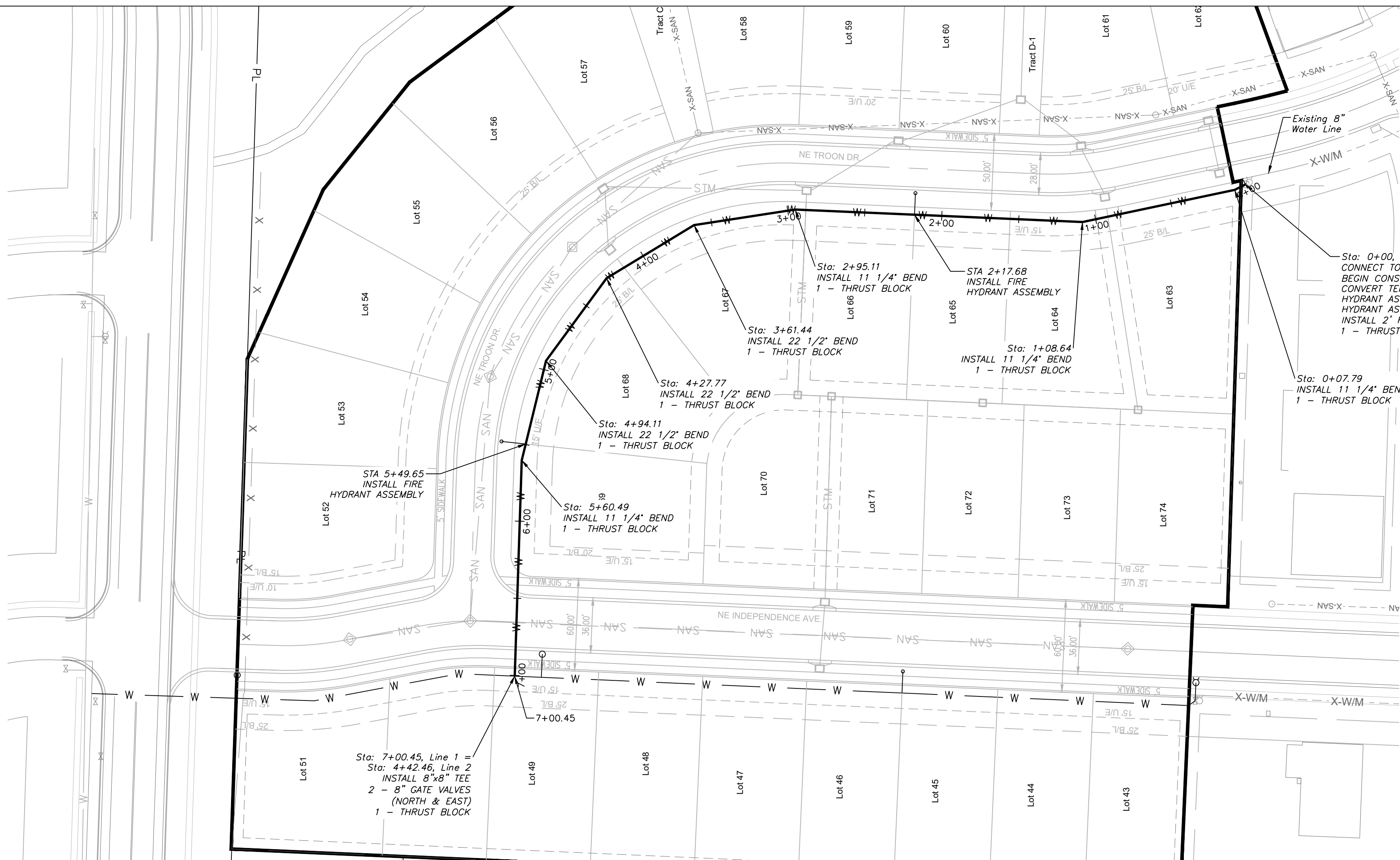
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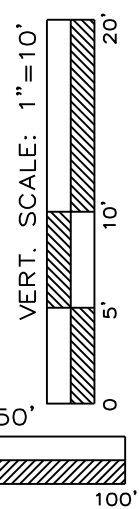
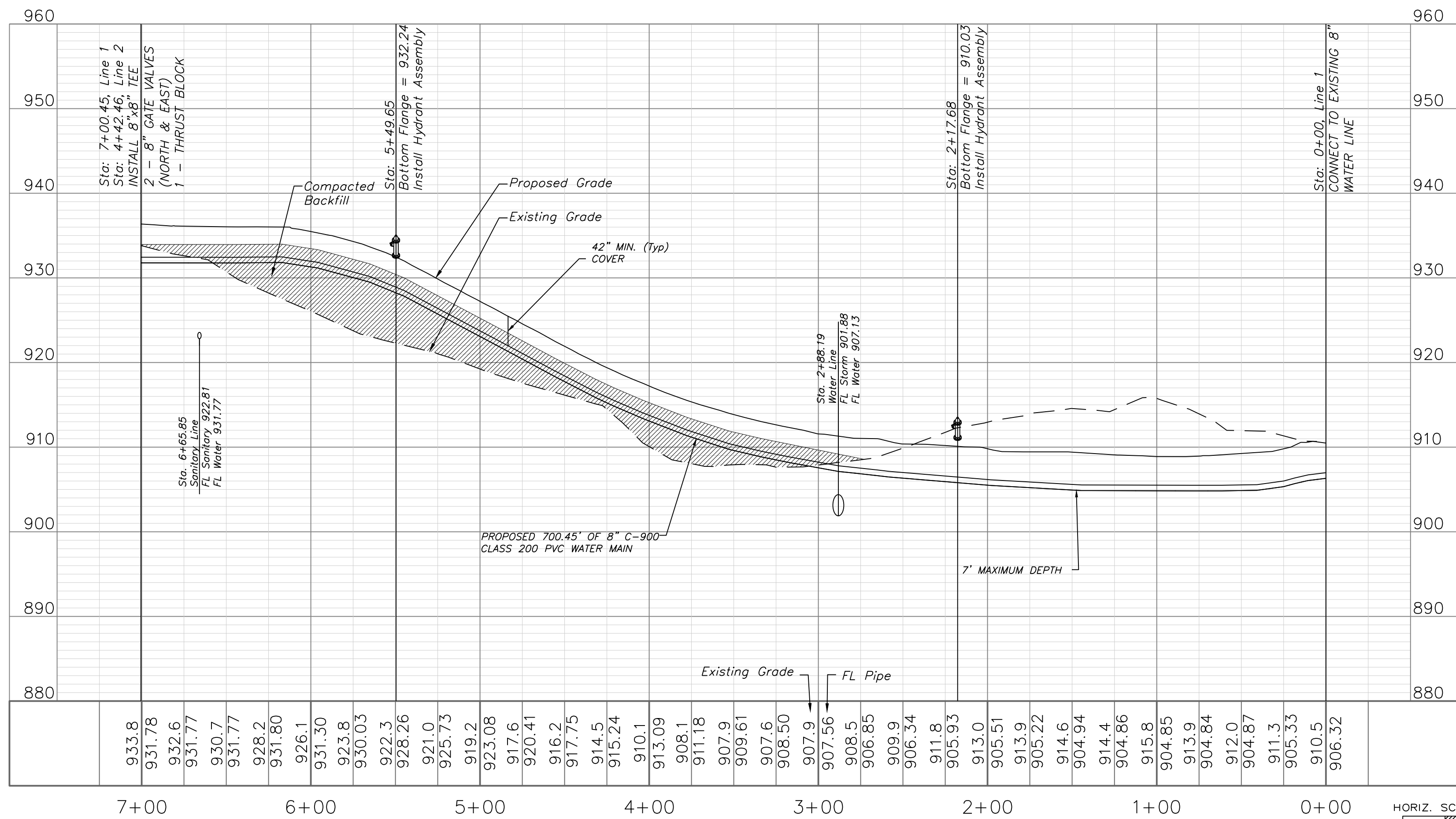
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C.501



WATER LINE 1



GRAPHIC SCALE
0 25' 50' 100'

North

WATER PLAN & PROFILE

SCALE: 1" = 50'

Note:
Compacted Fill shall be placed to a minimum 18" above the top of the pipe prior to installation.

REVISED FIRE HYDRANT LABEL

ENGINEERING SOLUTIONS

ENGINEERING & SURVEYING

50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

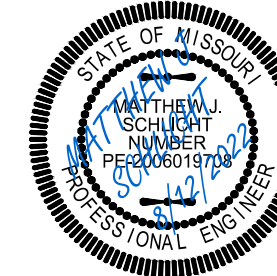
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Sta: 7+18.49, Line 2
END CONSTRUCTION
CONNECT TO EXISTING
12" WATER MAIN W/ CUT-IN TEE
1 - THRUST BLOCK
1 - 12" BUTTERFLY VALVE (WEST)
1 - 8" GATE VALVE (SOUTH)
MAXIMUM SHUT OFF TIME IS 8 HOURS
MUST GIVE 48 HOUR MINIMUM NOTICE
TO THE INSPECTOR IS REQUIRED PRIOR
TO MAKING THE CONNECTION.

Sta: 6+56.00 - 7+16.00, Line 2
60' ROAD BORE

Sta: 4+78.62
INSTALL 11 1/4" BEND
1 - THRUST BLOCK

Sta: 5+74.00
INSTALL 11 1/4" BEND
1 - THRUST BLOCK

Sta: 6+24.72
INSTALL FIRE
HYDRANT ASSEMBLY

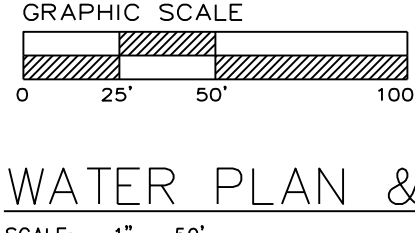
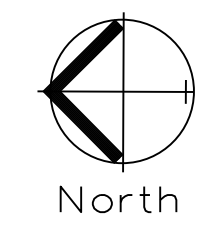
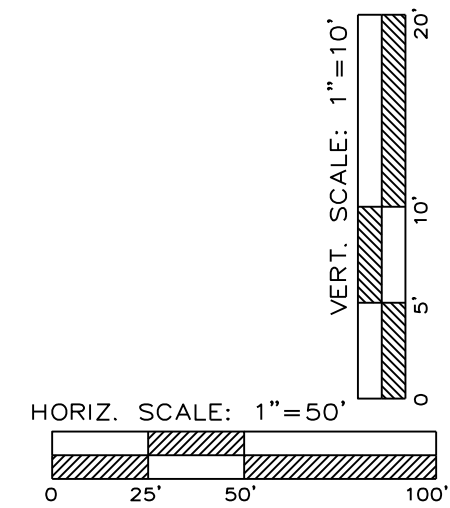
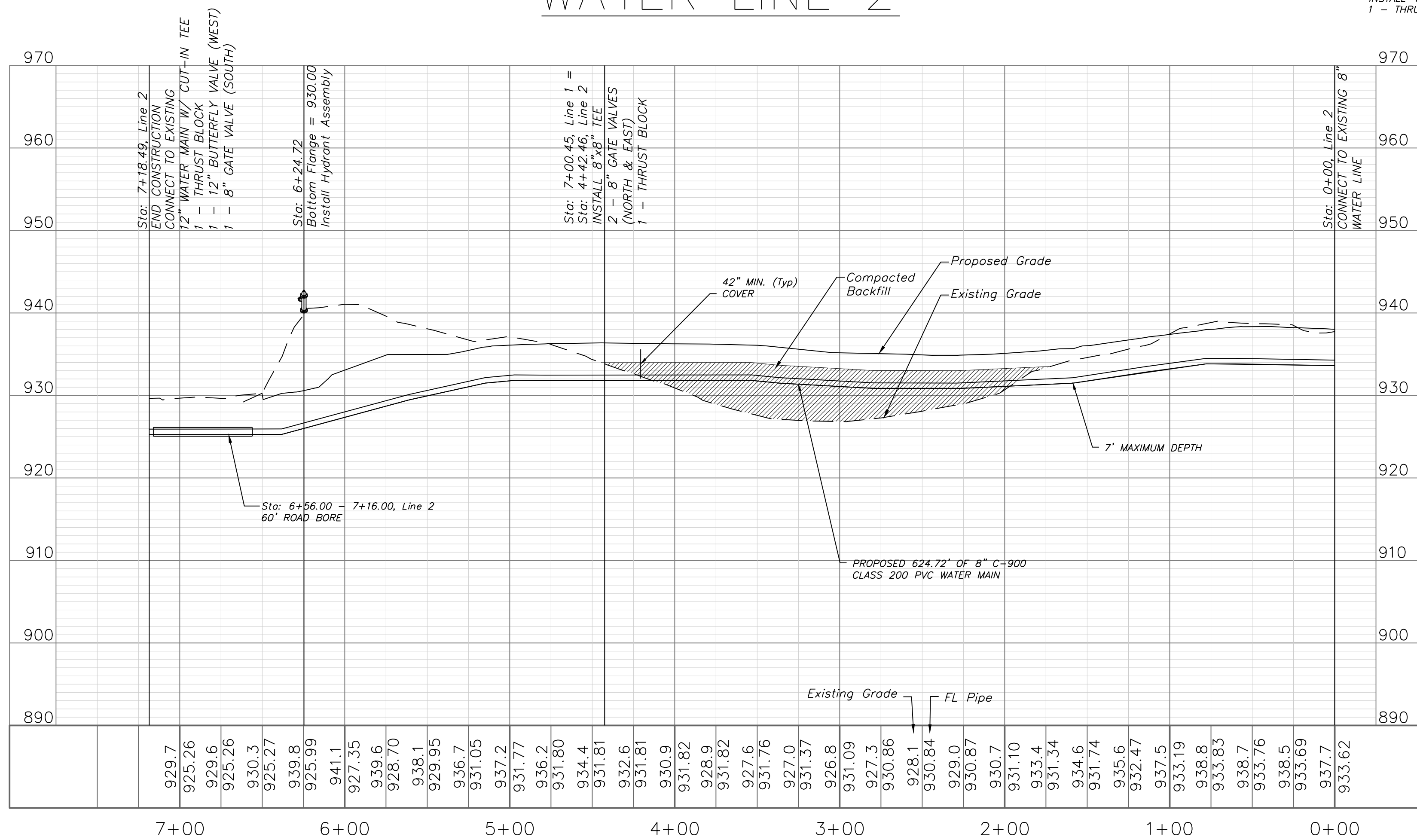
Sta: 4+25.20
INSTALL FIRE
HYDRANT ASSEMBLY

Sta: 7+00.45, Line 1 =
Sta: 4+42.46, Line 2
INSTALL 8"x8" TEE
2 - 8" GATE VALVES
(NORTH & EAST)
1 - THRUST BLOCK

Sta: 0+00, Line 2
CONNECT TO EXISTING 8" WATER LINE
BEGIN CONSTRUCTION
CONVERT TEMPORARY FIRE
HYDRANT ASSEMBLY TO PERMANENT
HYDRANT ASSEMBLY AND
INSTALL 2' FROM BACK OF CURB
1 - 45° BEND
1 - THRUST BLOCK

Sta: 0+05.20
INSTALL 45° BEND
1 - THRUST BLOCK

WATER LINE 2



WATER PLAN & PROFILE

SCALE: 1" = 50'

Note:

Compacted Fill shall be placed to a minimum 18" above the top of the pipe prior to installation.

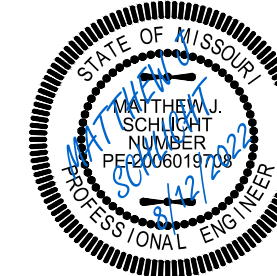


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