

OLDHAM VILLAGE
CONSTRUCTION PLANS
Section 7, Township 47 North, Range 31 West
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DEVELOPER:
Oldham Investors, LLC
David Olson
1700 132nd St, Suite 150
Phone: 314-413-3598

INDEX OF SHEETS:

- C.001 ~ STREET & STORM COVER SHEET
- C.010 ~ CONSTRUCTION PHASING PLAN OVERALL
- C.011 ~ CONSTRUCTION PHASING PLAN PHASE 1
- C.012 ~ CONSTRUCTION PHASING PLAN PHASE 2
- C.013 ~ CONSTRUCTION PHASING PLAN PHASE 3
- C.014 ~ CONSTRUCTION PHASING PLAN PHASE 4
- C.100 ~ OVERALL SITE PLAN
- C.200 ~ MASTER DRAINAGE PLAN SHEET 1 OF 3 GRADING PLAN
- C.201 ~ MASTER DRAINAGE PLAN SHEET 3 OF 3 DRAINAGE AREA MAP
- C.202 ~ STREET PLAN AND PROFILE
- C.203 ~ STREET PLAN AND PROFILE
- C.204 ~ STREET PLAN AND PROFILE
- C.205 ~ STREET PLAN AND PROFILE
- C.206 ~ STREET PLAN AND PROFILE
- C.206A ~ STREET 5 SPOT GRADES
- C.206B ~ STREET 5 SIDEWALK AND INTERSECTION PLAN
- C.206C ~ OVERALL GRADING PLAN STREET 5
- C.207 ~ CONSTRUCTION NOTES AND CROSS SECTION
- C.208 ~ CONSTRUCTION NOTES AND CROSS SECTION
- C.209 ~ CONSTRUCTION NOTES AND CROSS SECTION
- C.210 ~ STREET SIGNAGE PLANS
- C.211 ~ PARK TRAIL PLAN AND PROFILE
- C.212 ~ PAVEMENT MARKING PLAN
- C.215 ~ SIDEWALK AND INTERSECTION PLAN
- C.216 ~ SIDEWALK AND INTERSECTION PLAN
- C.217 ~ SIDEWALK AND INTERSECTION PLAN
- C.220 ~ RETAINING WALL PLAN AND PROFILE
- C.221 ~ RETAINING WALL PLAN AND PROFILE
- C.222 ~ RETAINING WALL PLAN AND PROFILE
- C.250 ~ TRAFFIC CONTROL PLAN GENERAL LAYOUT
- C.251 ~ TRAFFIC CONTROL PLAN
- C.252 ~ TRAFFIC CONTROL STANDARD DETAILS
- C.300 ~ STORM SEWER GENERAL LAYOUT
- C.301 ~ STORM SEWER PLAN AND PROFILE
- C.302 ~ STORM SEWER PLAN AND PROFILE
- C.303 ~ STORM SEWER PLAN AND PROFILE
- C.304 ~ STORM SEWER PLAN AND PROFILE
- C.305 ~ STORM SEWER PLAN AND PROFILE
- C.306 ~ STORM SEWER PLAN AND PROFILE
- C.307 ~ STORM SEWER PLAN AND PROFILE
- C.308 ~ STORM SEWER PLAN AND PROFILE
- C.309 ~ STORM SEWER PLAN AND PROFILE
- C.310 ~ STORM SEWER TABLES
- C.311 ~ STORM SEWER TABLES
- C.312 ~ STORM SEWER TABLES
- C.313 ~ STORM SEWER TABLES
- C.600 ~ CONSTRUCTION DETAILS
- C.601 ~ CONSTRUCTION DETAILS
- STREET LIGHT PLANS
- SIGNAL PLANS

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.

Traut Description[illegible]

GENERAL NOTES:

- 1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- 2 - ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAN.
- 3 - ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
- 4 - THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRELIMINARY CONSTRUCTION WITHAL INSPECTION PRIOR TO ANY LAND DISTURBANCE WORK AT (616) 969-1200.
- 5 - THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 616.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
- 6 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

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.

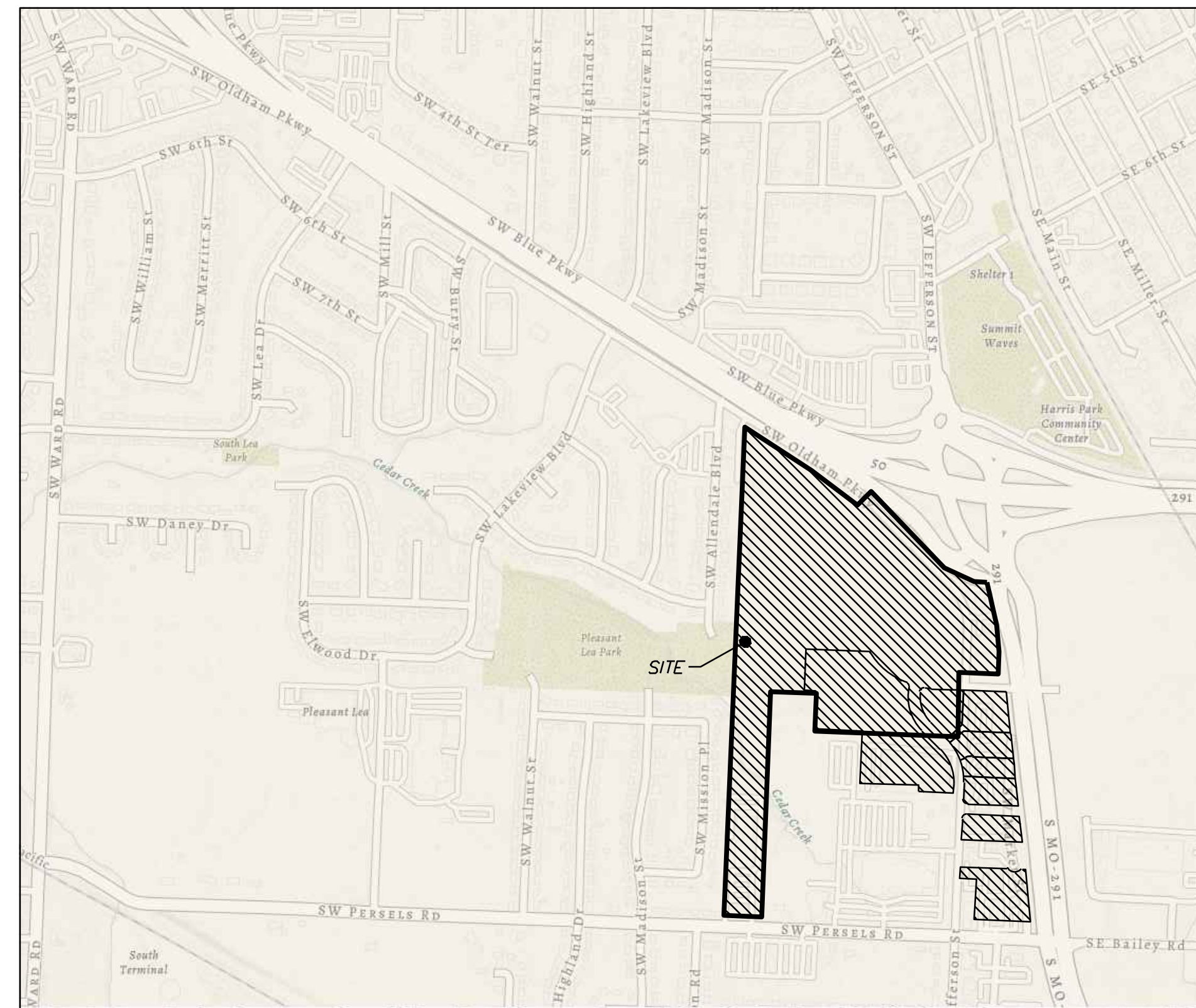
EVERGY ~ 298-1196
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

OIL - GAS WELLS

ACCORDING TO EDWARD ALTON MAY JR'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

FLOOD INFORMATION:

The property is located in Zone "X" areas outside the 100 year flood plain per FEMA Map 29095C0419G, dated January 20, 2017

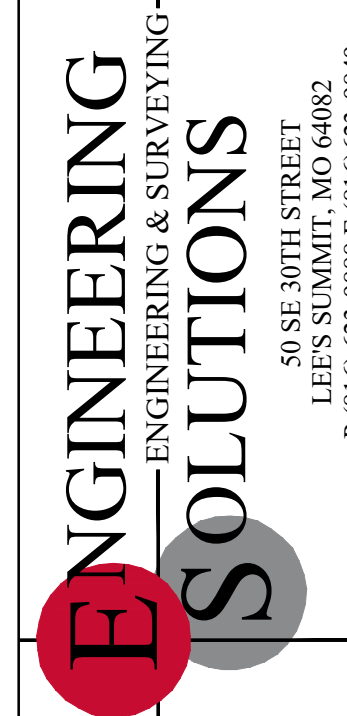
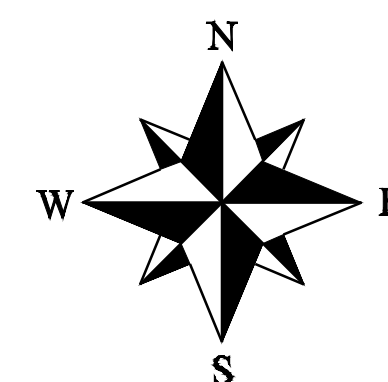


Vicinity Map

SITE LOCATION MAP

Summary of Quantities:

ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
ASPHALT PAVING	S. Y.	16,680.00
CURBING	FT	8,453.00
5' SIDEWALK	S. F.	52,075.00
MoDOT Type 5 Base	S. Y.	20,220.00
GEOGRID	S. Y.	20,220.00
ADA SIDEWALK RAMP	UNIT	18
STORM	FT	
72" HDPE	FT	534.13
60" HDPE	FT	520.05
48" HDPE	FT	559.66
42" HDPE	FT	751.64
36" HDPE	FT	1,063.63
30" HDPE	FT	297.39
24" HDPE	FT	1,176.14
18" HDPE	FT	481.97
15" HDPE	FT	202.03
60" RCP	FT	97.35
48" RCP	FT	222.92
42" RCP	FT	196.77
36" RCP	FT	107.85
30" RCP	FT	98.40
24" RCP	FT	235.41
15" RCP	FT	43.49

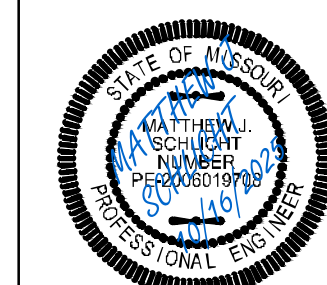


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
OLDHAM
MARKETPLACE,
LSMO

Street & Storm Cover Sheet
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

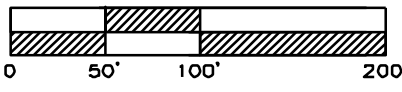
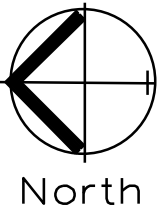


Matthew J. Schlich
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

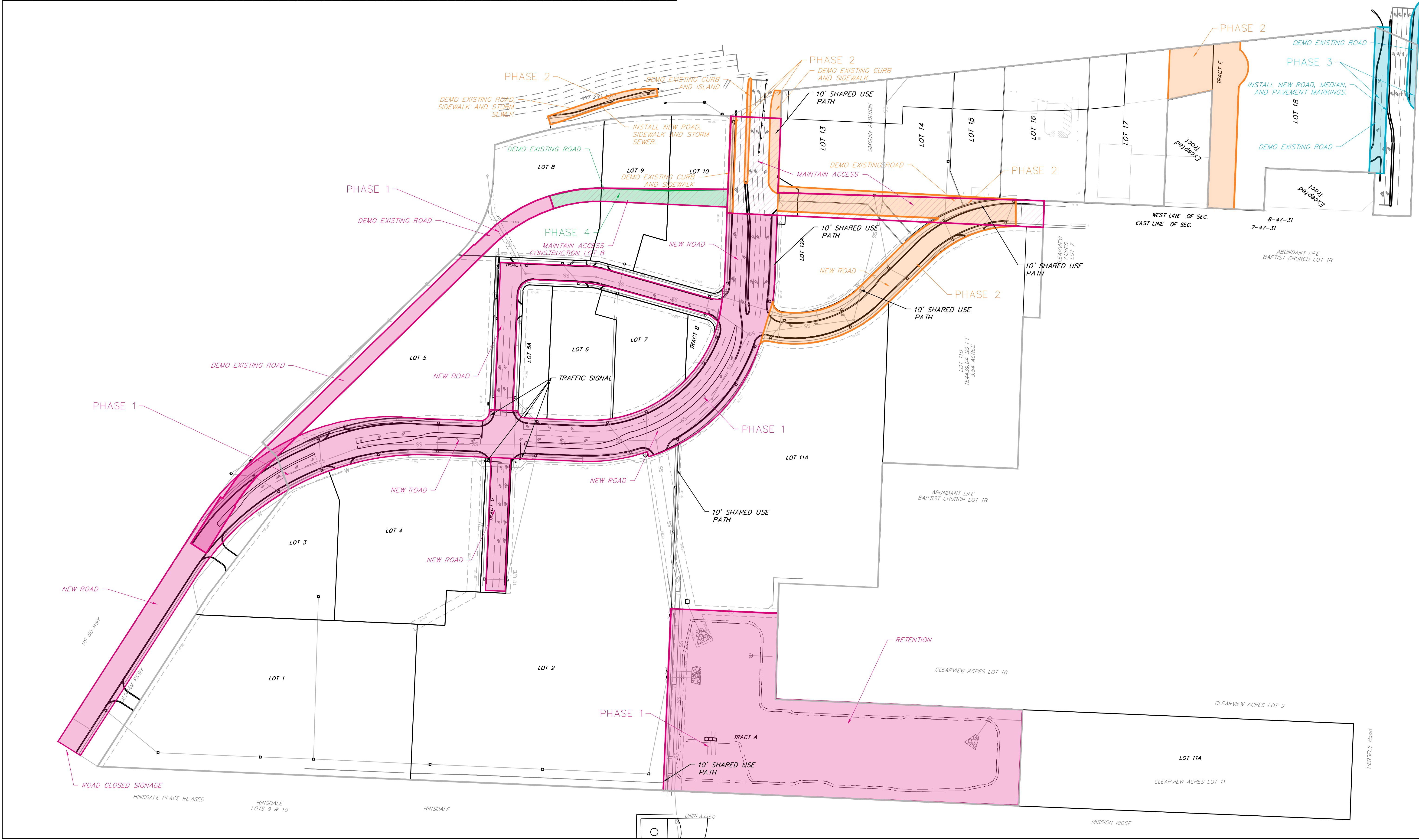
REVISIONS

1 REV. 12/10/2024
 2 REV. 1/2/2025
 3 REV. 2/6/2025
 REV. 3/5/2025
 4 REV. 3/24/2025
 5 REV. 4/15/2025
 REV. 10/16/2025

CONSTRUCTION ACTIVITY	MAR	APRIL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
	2025 WORK SCHEDULE												2026 WORK SCHEDULE
1 Demo Existing Buildings													
2 PHA SE 1													
3 PHASE 2													
4 PHASE 3													
5 PHASE 4													
6 PHASE 5													
7 OLDHAM PKWY CLOSURE													
8 OLDHAM PKWY OPEN TO LOCAL TRAFFIC													
9 JEFFERSON STREET CLOSURE													



CONSTRUCTION PHASING OVERALL SITE PLAN
SCALE: 1" = 100'

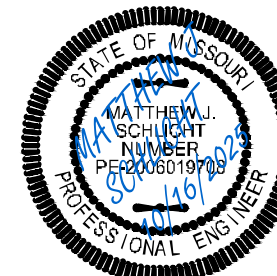


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: OLDHAM VILLAGE
LSMO
Issue Date: November 6, 2024

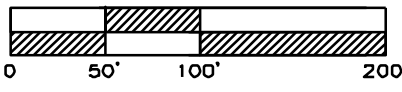
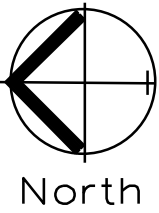
CONSTRUCTION PHASING
OVERALL SITE PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



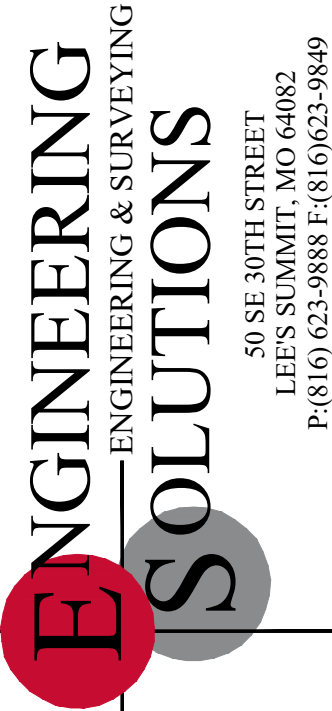
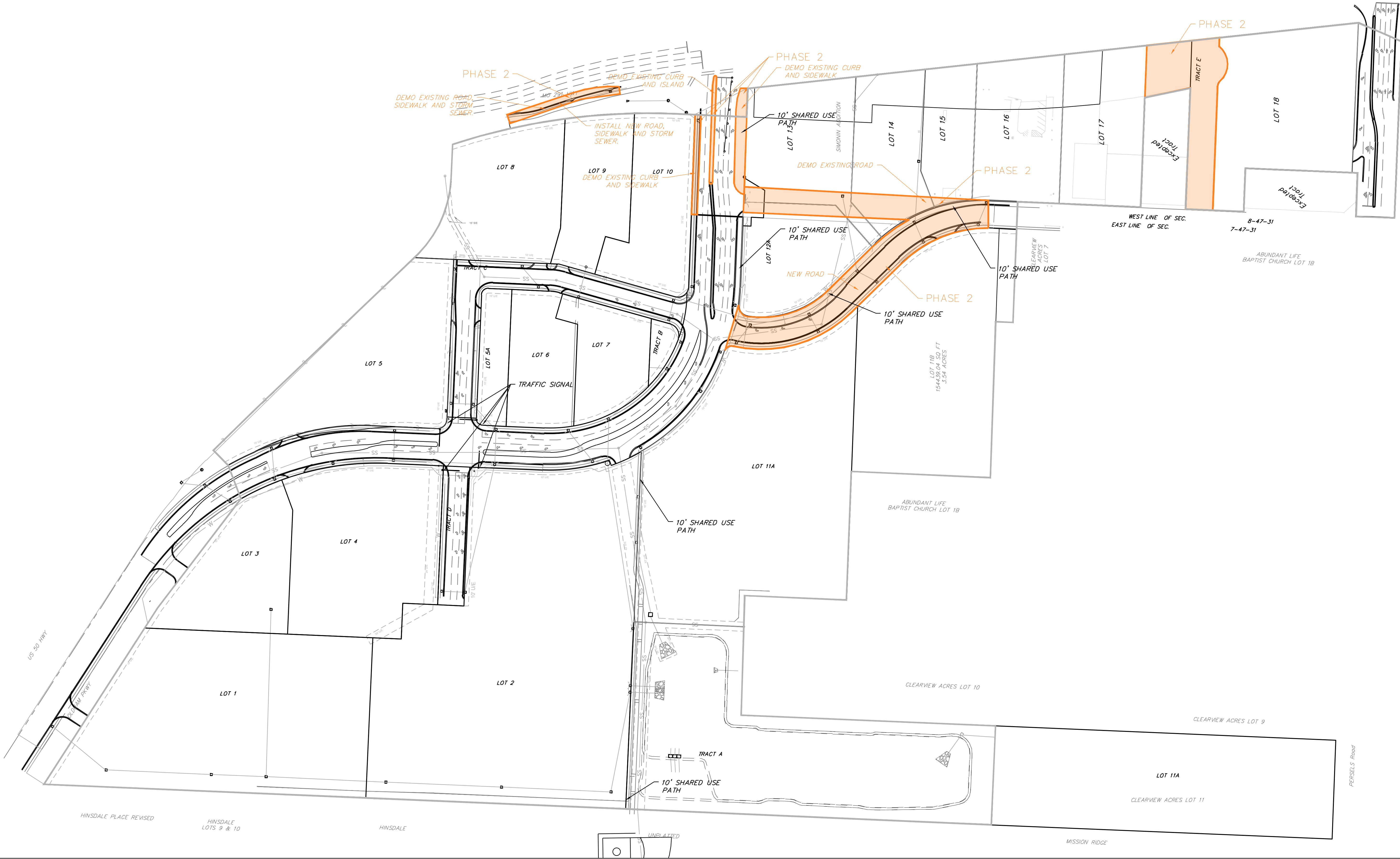
Matthew J. Schlicht
MO PE 0000019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	

	CONSTRUCTION ACTIVITY	2025 WORK SCHEDULE												2026 WORK SCHEDULE		
		MAR	APRIL	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR		
90	Close E/W Oldham and Jefferson															
91	Complete Jefferson Street Connection															
92	Complete South and Island Improvements on Existing Oldham															
93	Open Relocated Jefferson and E/W Oldham															



CONSTRUCTION PHASING PHASE 2
SCALE: 1" = 100'

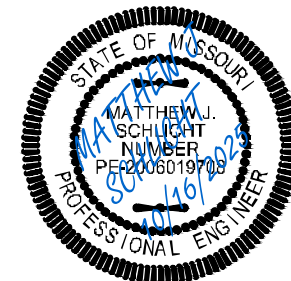


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklaoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: MM
MARKETPLACE,
LSMO
Issue Date:
November 5, 2024

CONSTRUCTION PHASING PHASE 2
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

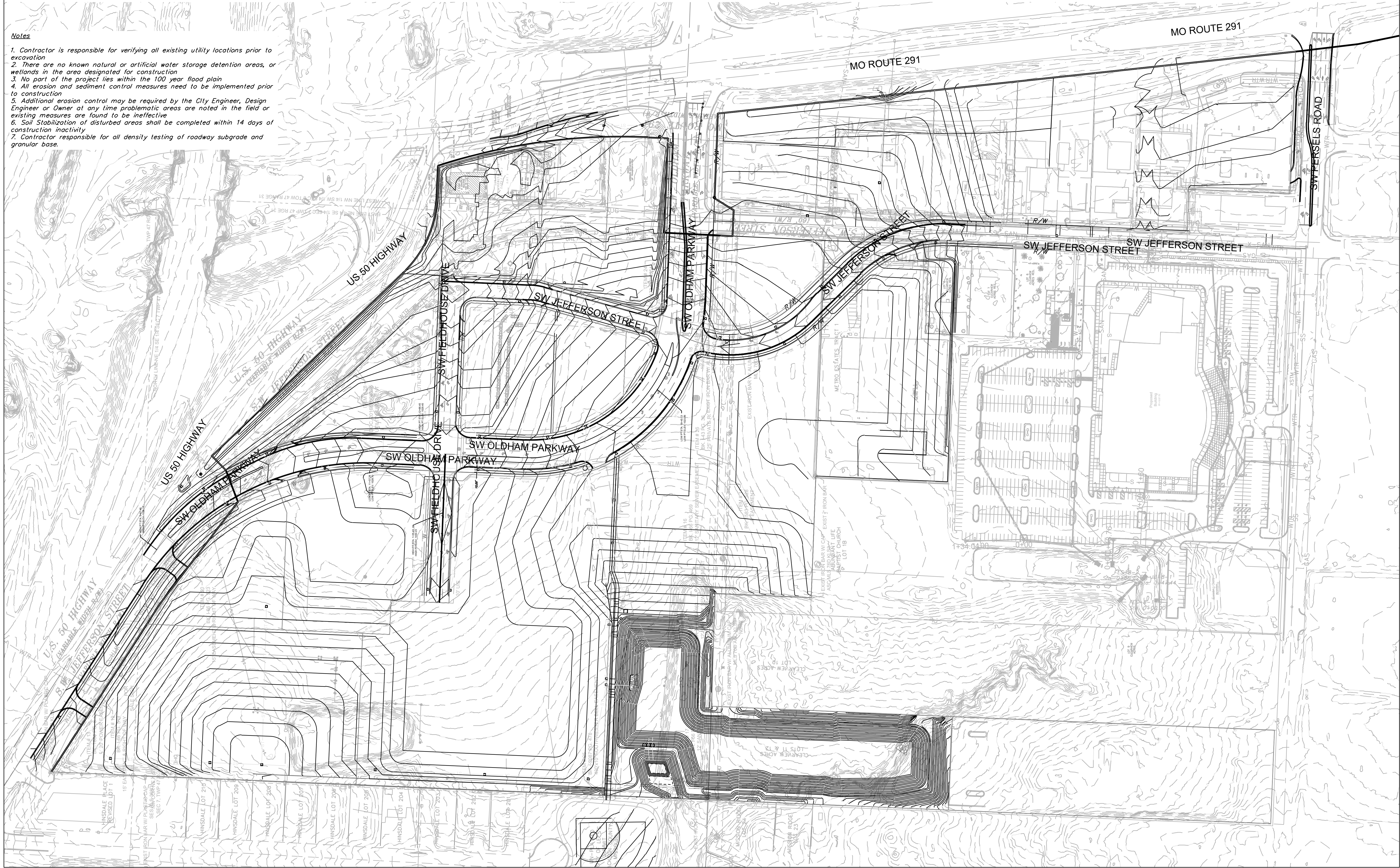
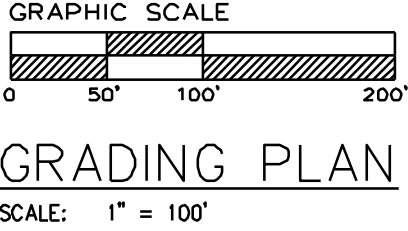


Matthew J. Schlicht
MO PE 0000019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	

Notes

1. Contractor is responsible for verifying all existing utility locations prior to excavation
2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
3. No part of the project lies within the 100 year flood plain
4. All erosion and sediment control measures need to be implemented prior to construction
5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
7. Contractor responsible for all density testing of roadway subgrade and granular base.



Master Drainage Plan 1 of 3:

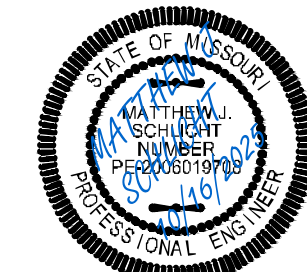
Grading Plan
Construction Plans for:
Oldham Village

Lee's Summit, Jackson County, Missouri

Project:
Oldham Village
LSMO
Issue Date:
November 6, 2024

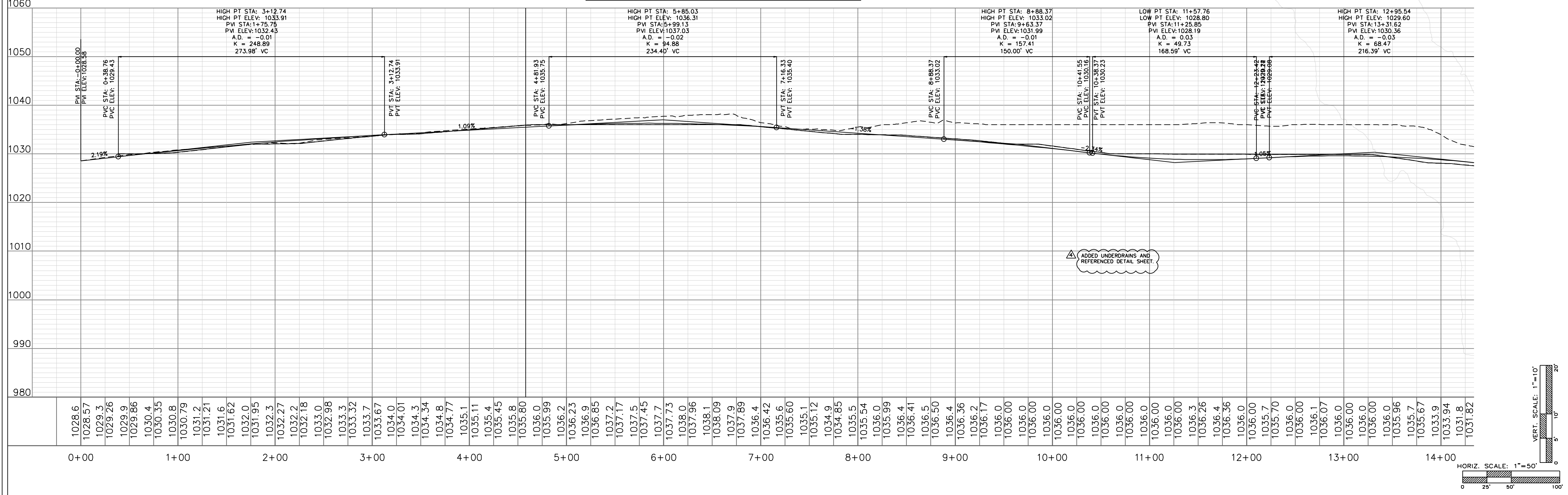
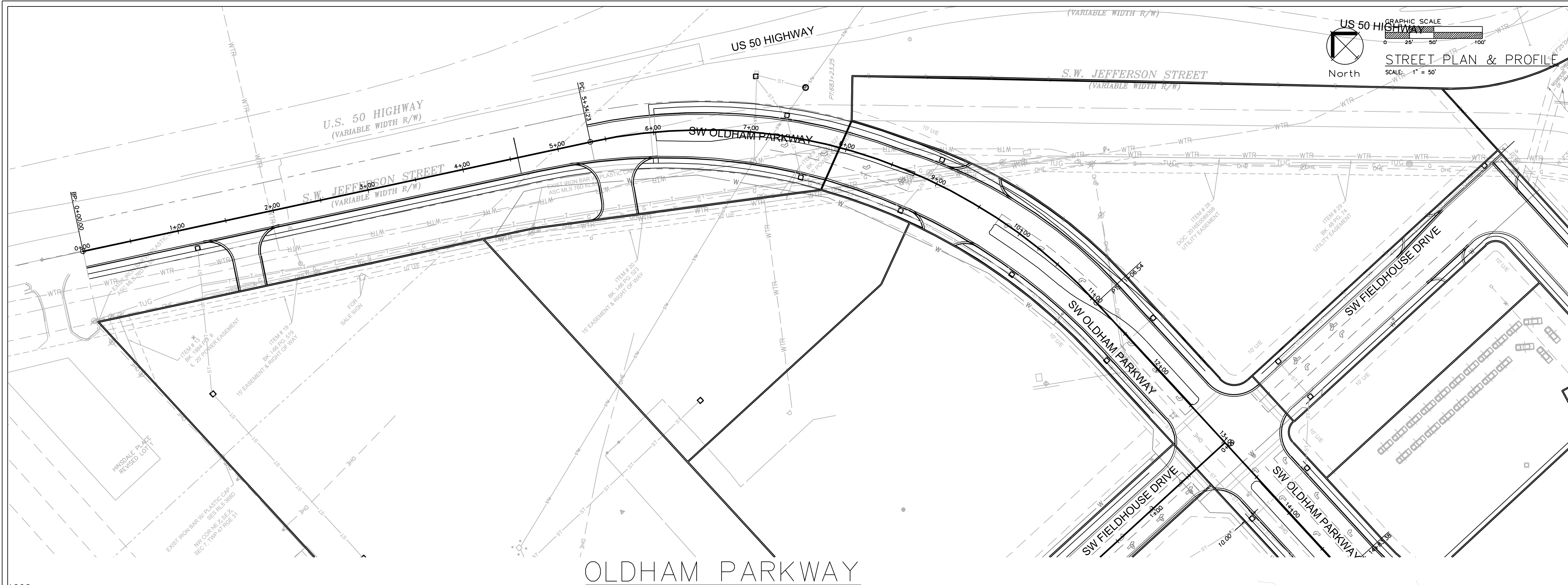
Oldham Village
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821



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

REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025



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

Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

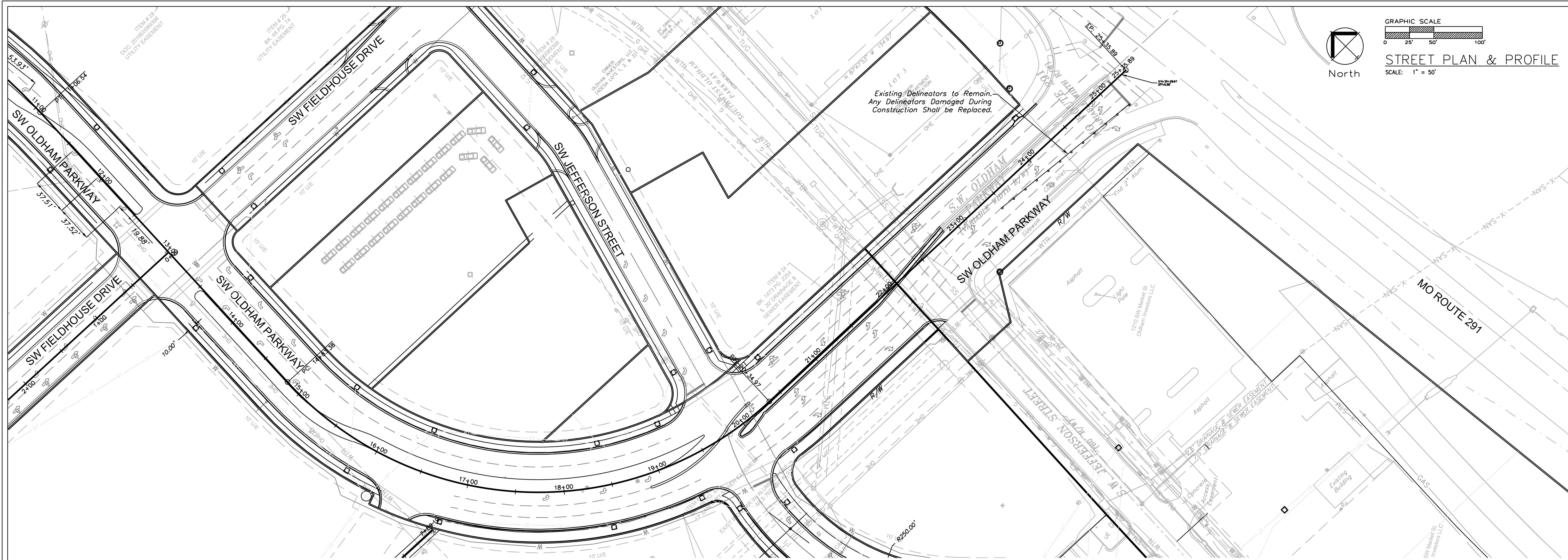
Project:
MARKETPLACE
LSMO
Issue Date:
November 6, 2024

Street Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

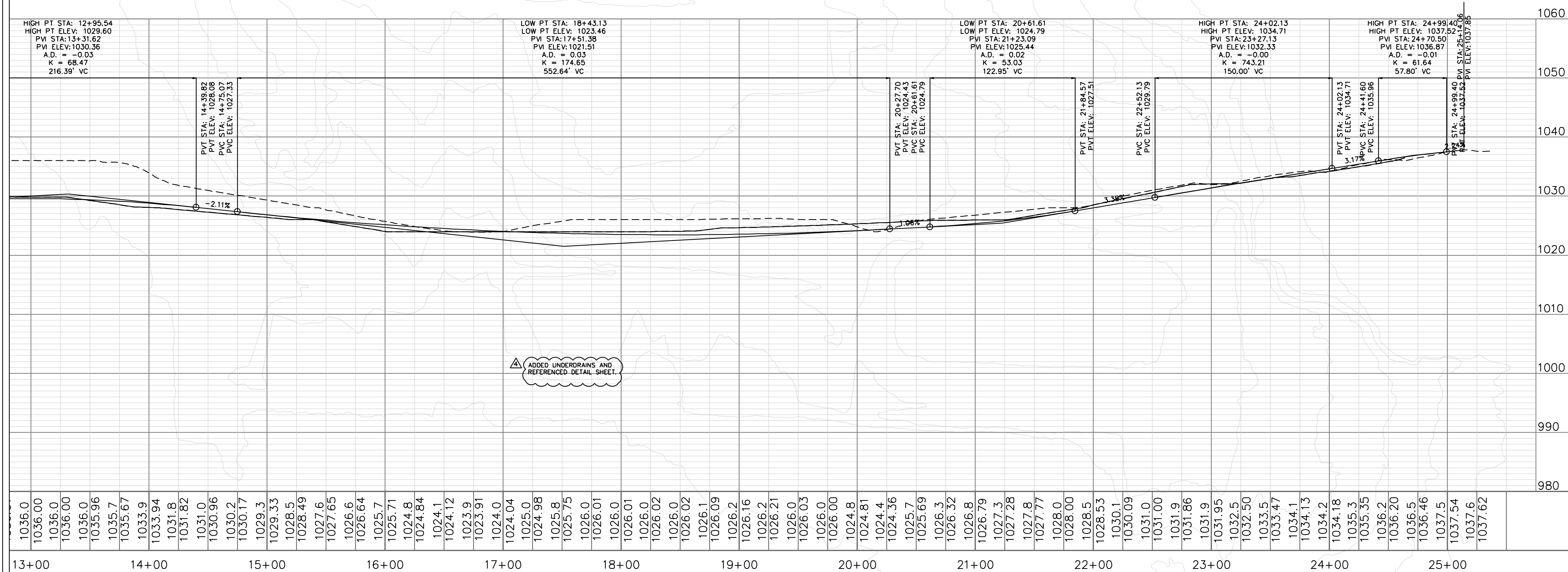
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-143335

REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

C. 202



OLDHAM PARKWAY



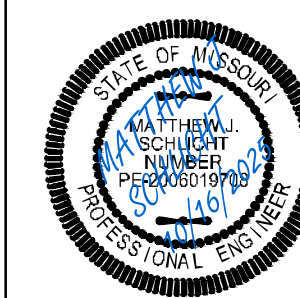


ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6284
Nebraska
Engineering CA2821

Project: OLDHAM PARKWAY
LSMO
Issue Date: November 6, 2024

Oldham Village
Lee's Summit, Jackson County, Missouri

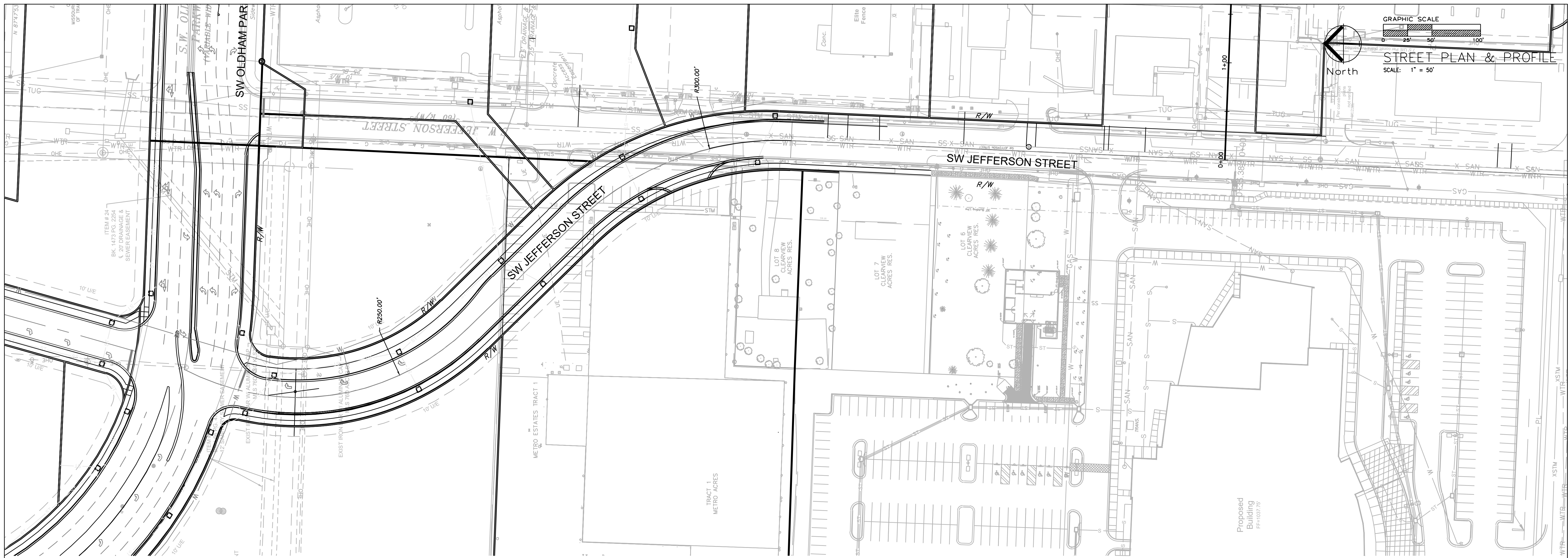


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

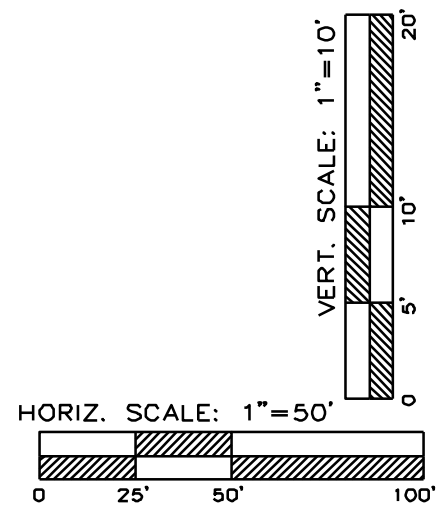
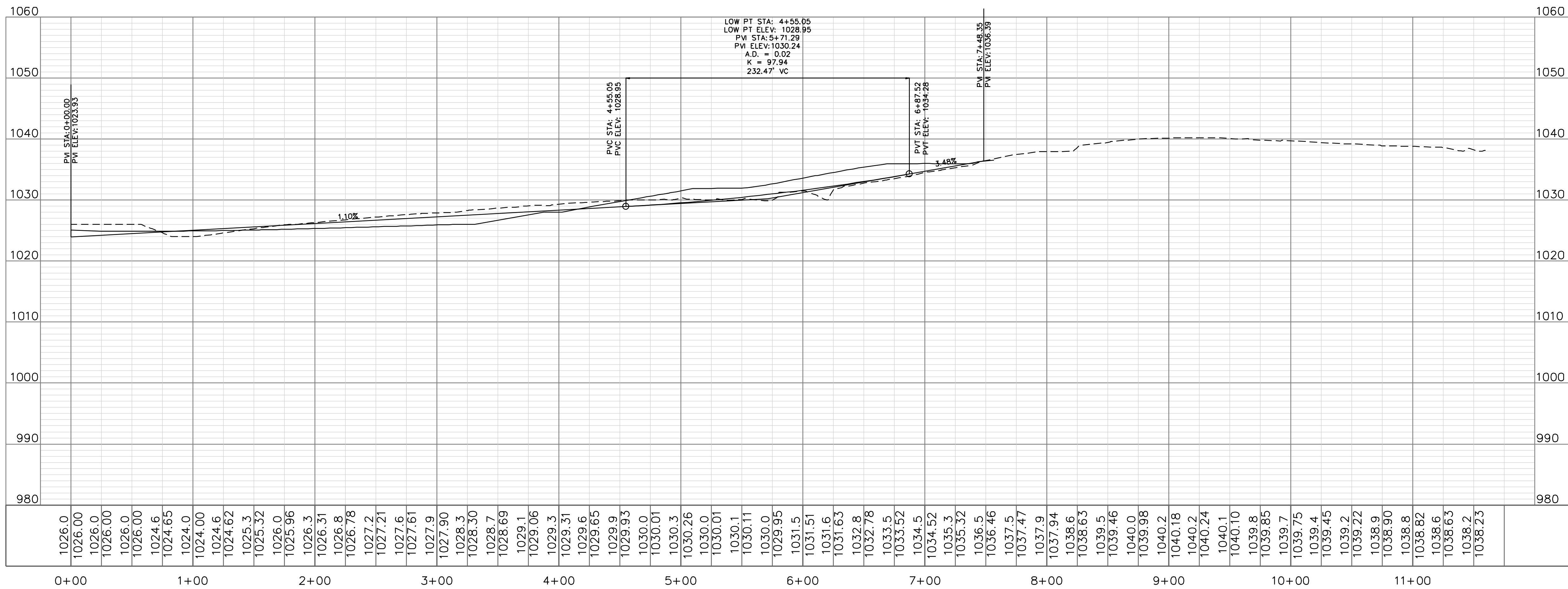
REVISIONS

REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

C.203



SW JEFFERSON STREET



Street Plan and Profile

Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

Project: MM
Marketplace
LSMO
Issue Date:
November 6, 2024

Oldham Village
Lee's Summit, Jackson County, Missouri

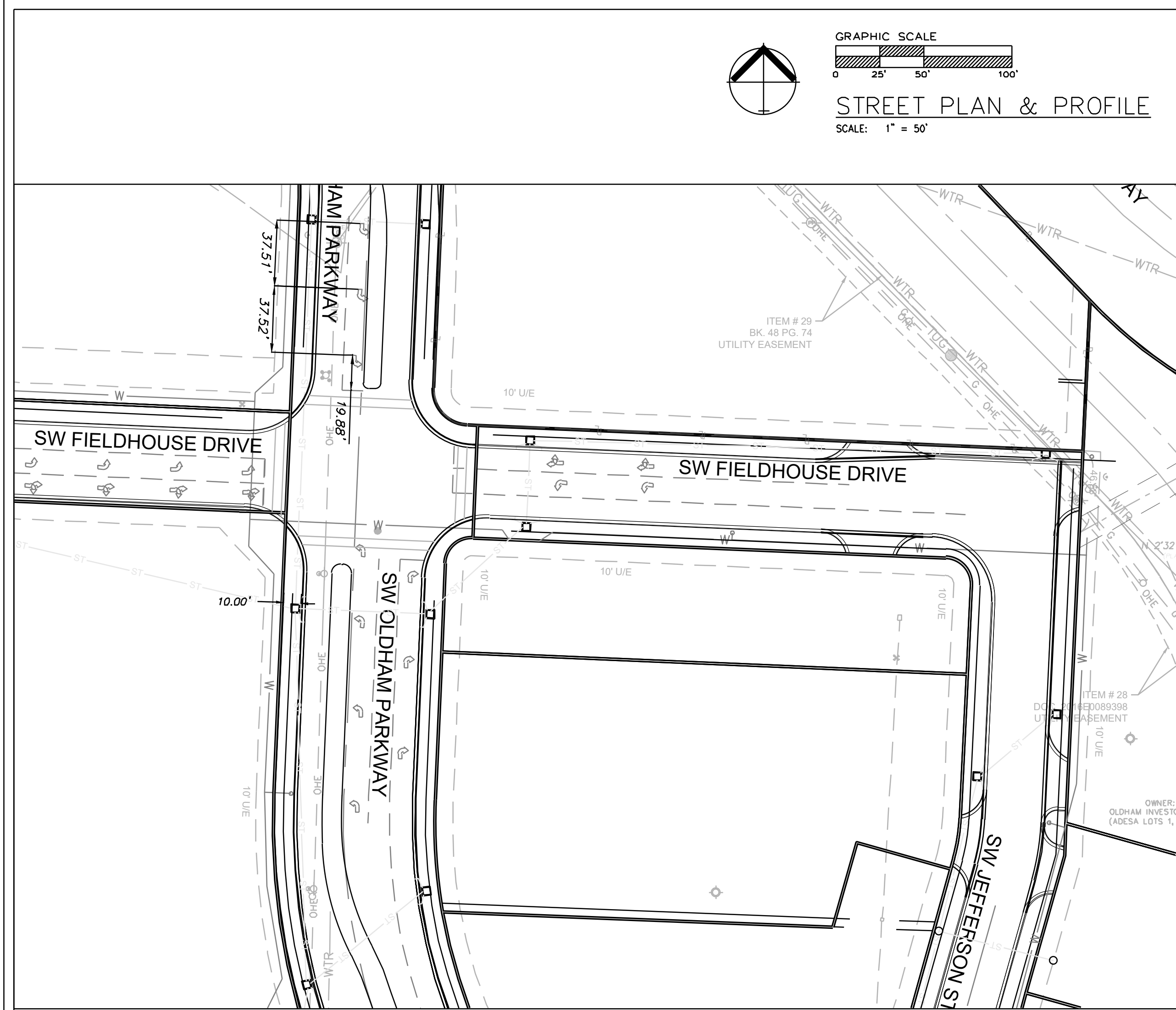
Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6284
Nebraska
Engineering CA2821

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

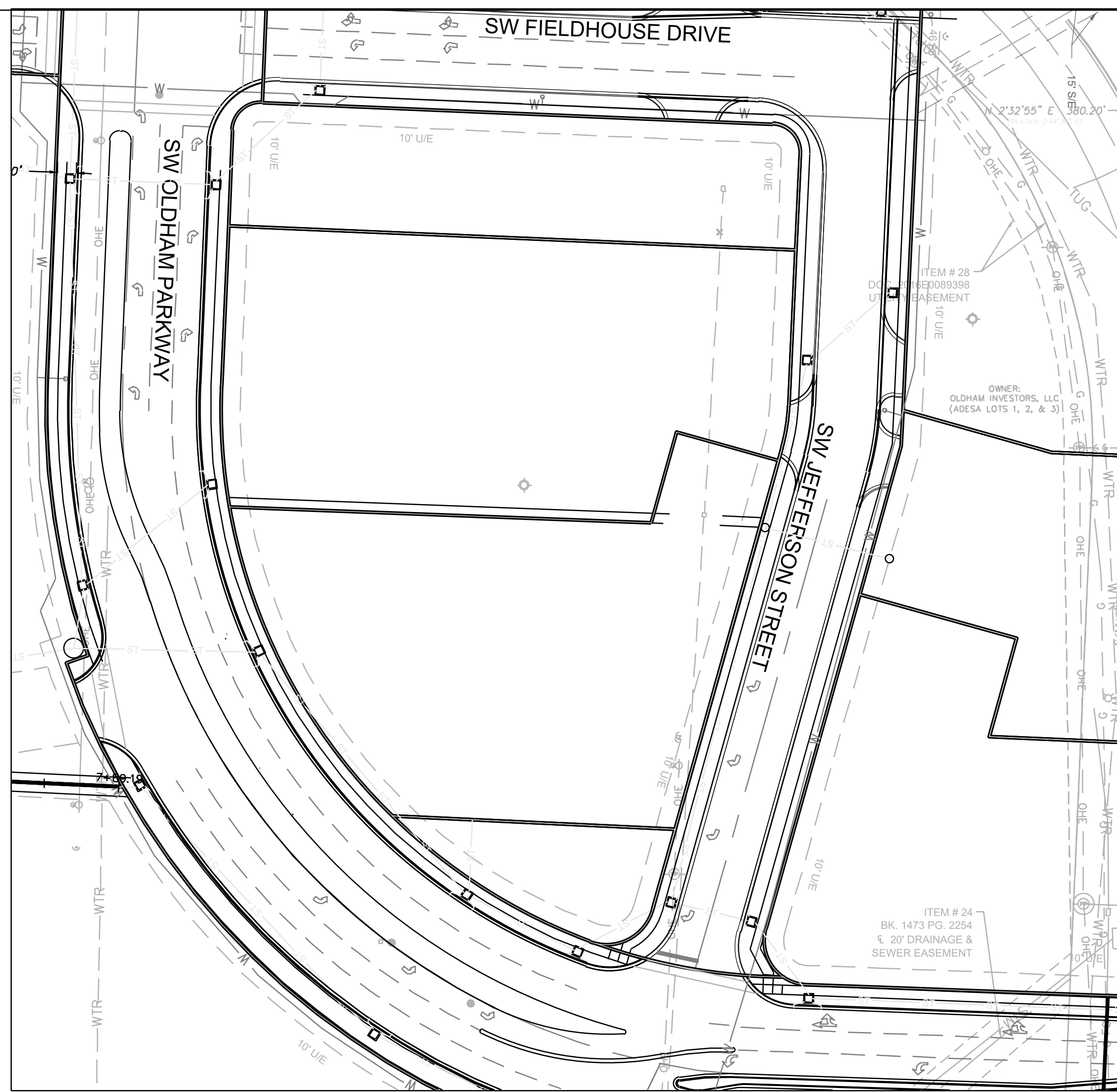
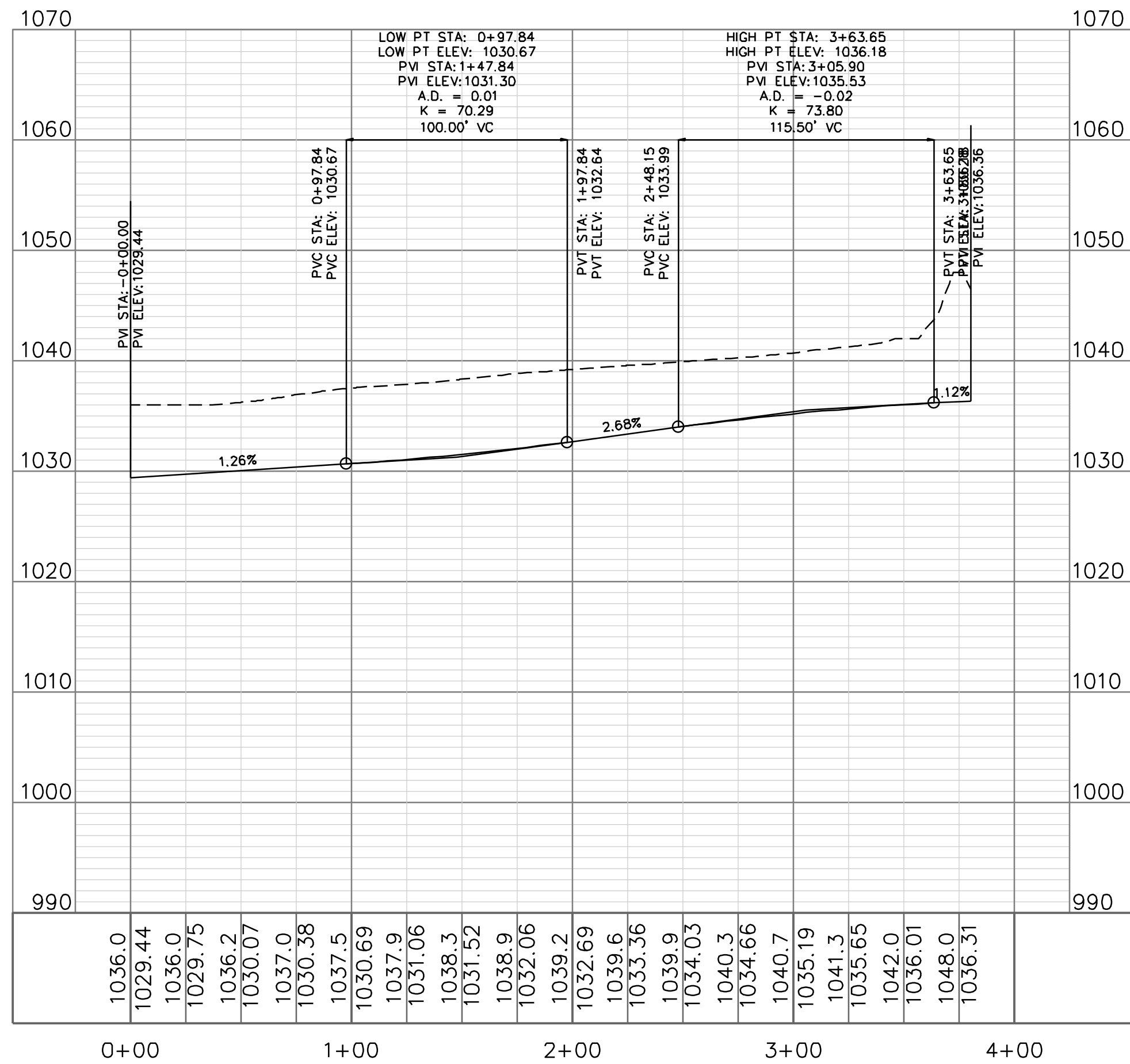


Matthew J. Schlicht
MO PE 0006019708
KS PE 19071
OK PE 25226
NE PE E-14335

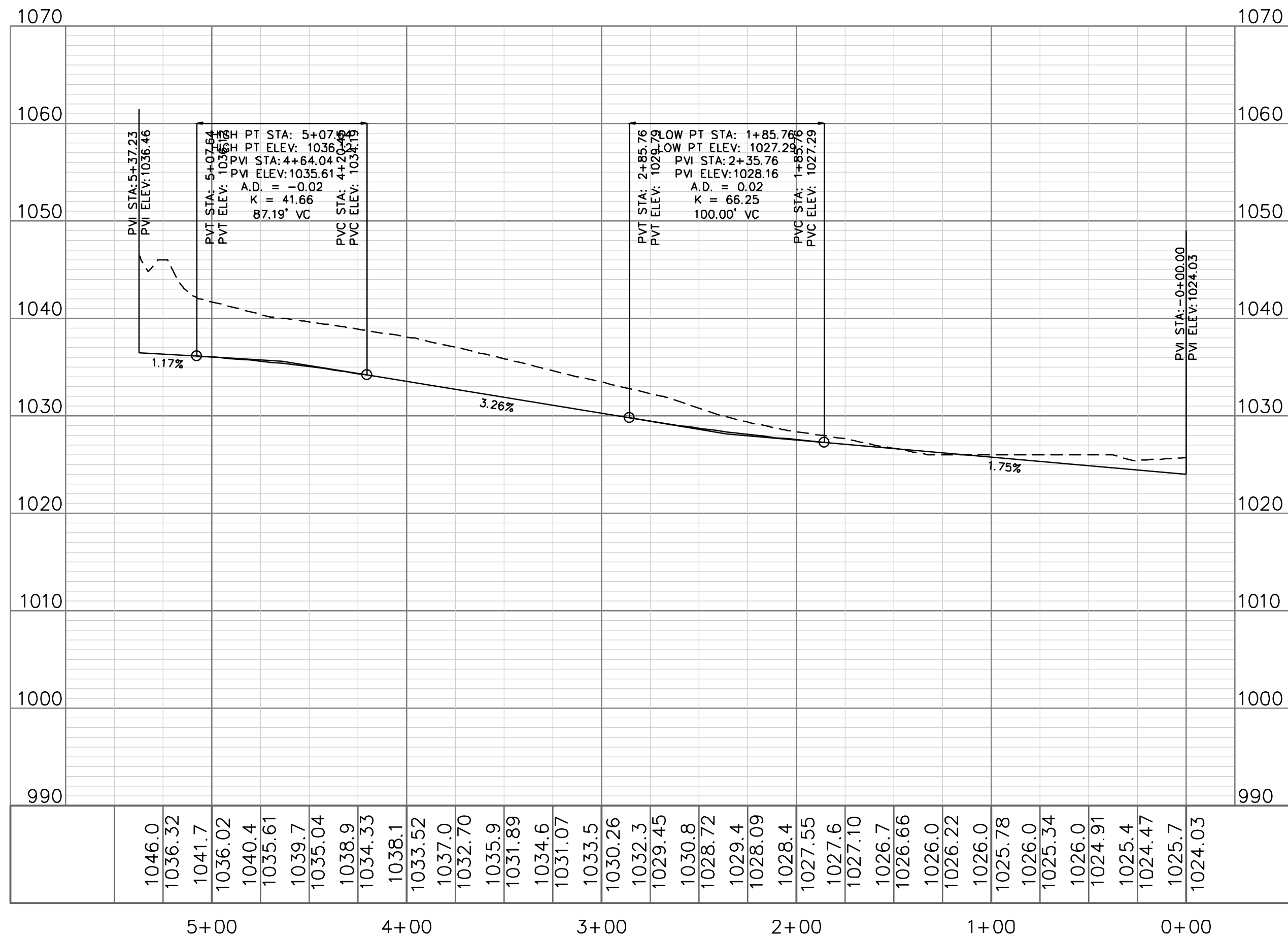
REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



SW FIELDHOUSE DR



SW JEFFERSON ST



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

Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6284
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

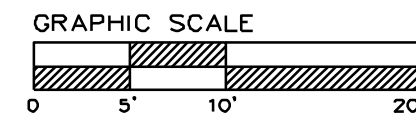
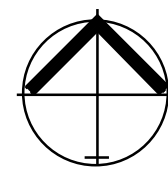
Project: OLDHAM MARKETPLACE, LS MO
Issue Date: November 6, 2024

Street Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

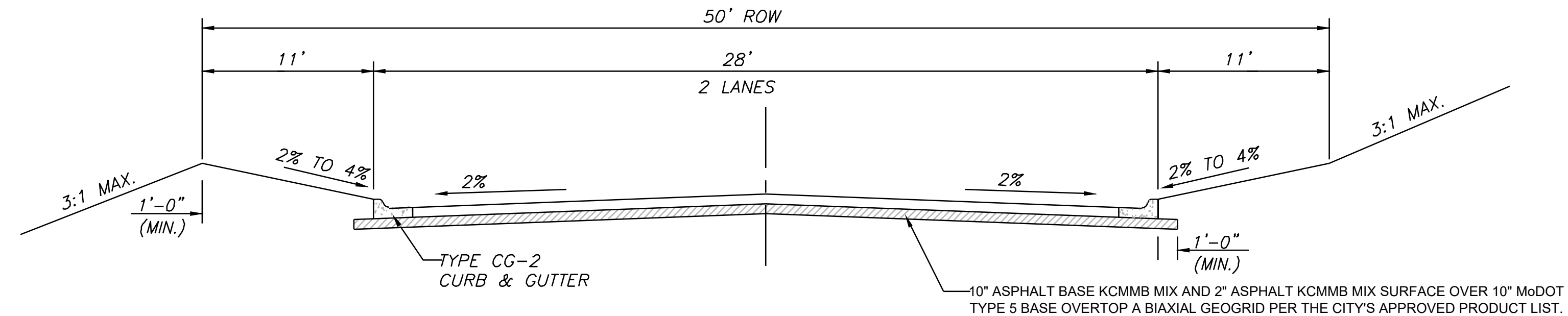
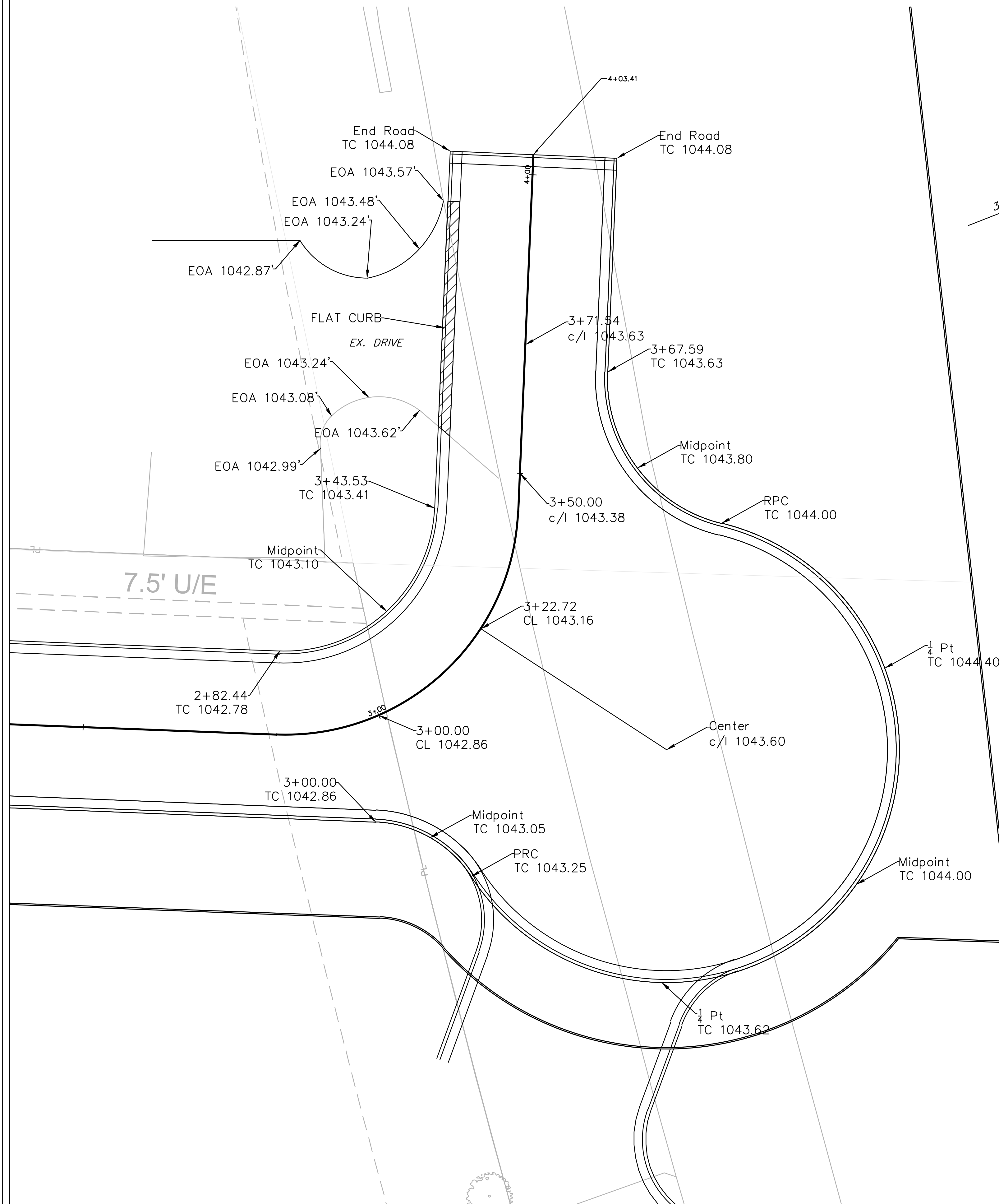
Matthew J. Schlacht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

C. 205



STREET 5 SPOT GRADES
SCALE: 1" = 10'



TYPICAL STREET SECTION

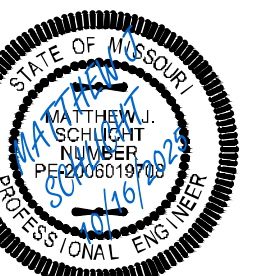


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6264
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

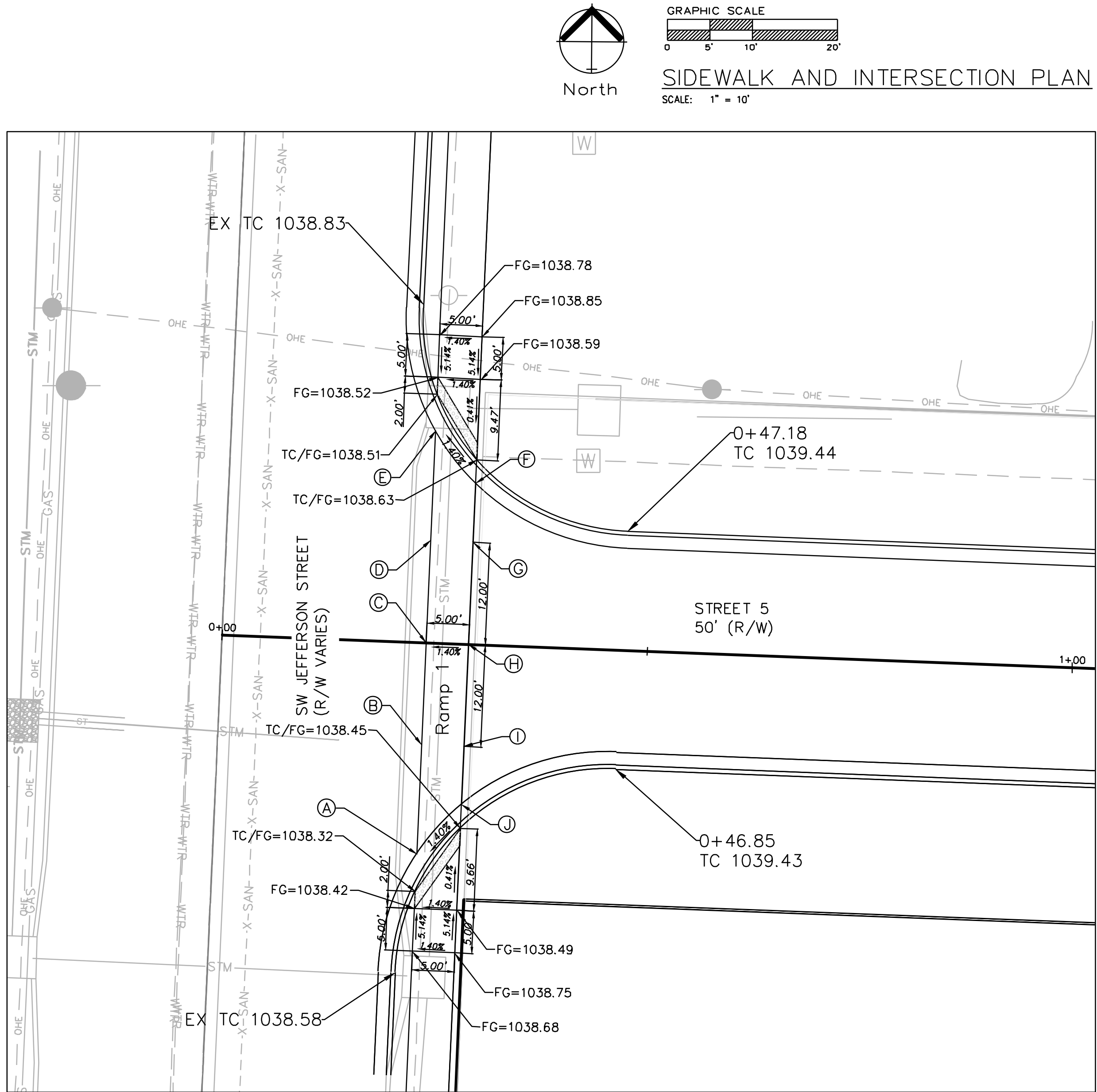
Project: MM
MARKETPLACE,
LSMO
Issue Date:
November 6, 2024

Street 5 Spot Grades
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht
MO PE 0000019708
KS PE 19071
OK PE 25226
NE PE E-14335

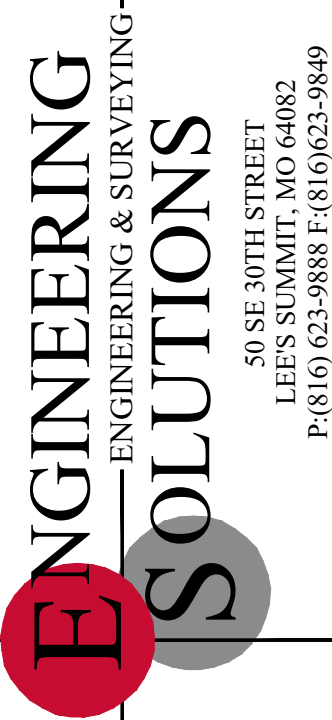
REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



DETAIL 1

- Legend:
- EX TC = Existing Top of Curb
- EX FG = Existing Finished Grade
- FG = Finished Grade
- TC = Top of Curb
- TC/FG = Top of Curb/Finished Grade
- Detectable Warning

SPOT ELEVATION TABLE				
Spot	Ramp 1			
A	1038.32			
B	1038.84			
C	1038.96			
D	1038.84			
E	1038.51			
F	1038.63			
G	1038.91			
H	1039.03			
I	1038.91			
J	1038.45			

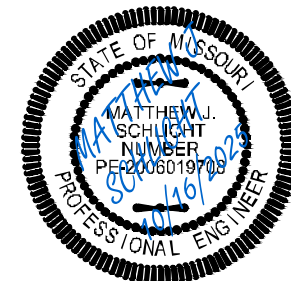


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

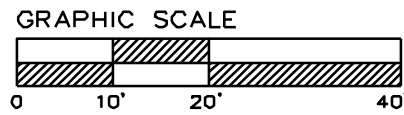
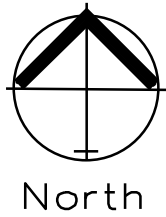
Project: AM
MARKETPLACE,
LSMO
Issue Date:
November 5, 2024

Street 5 Spot Grades
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

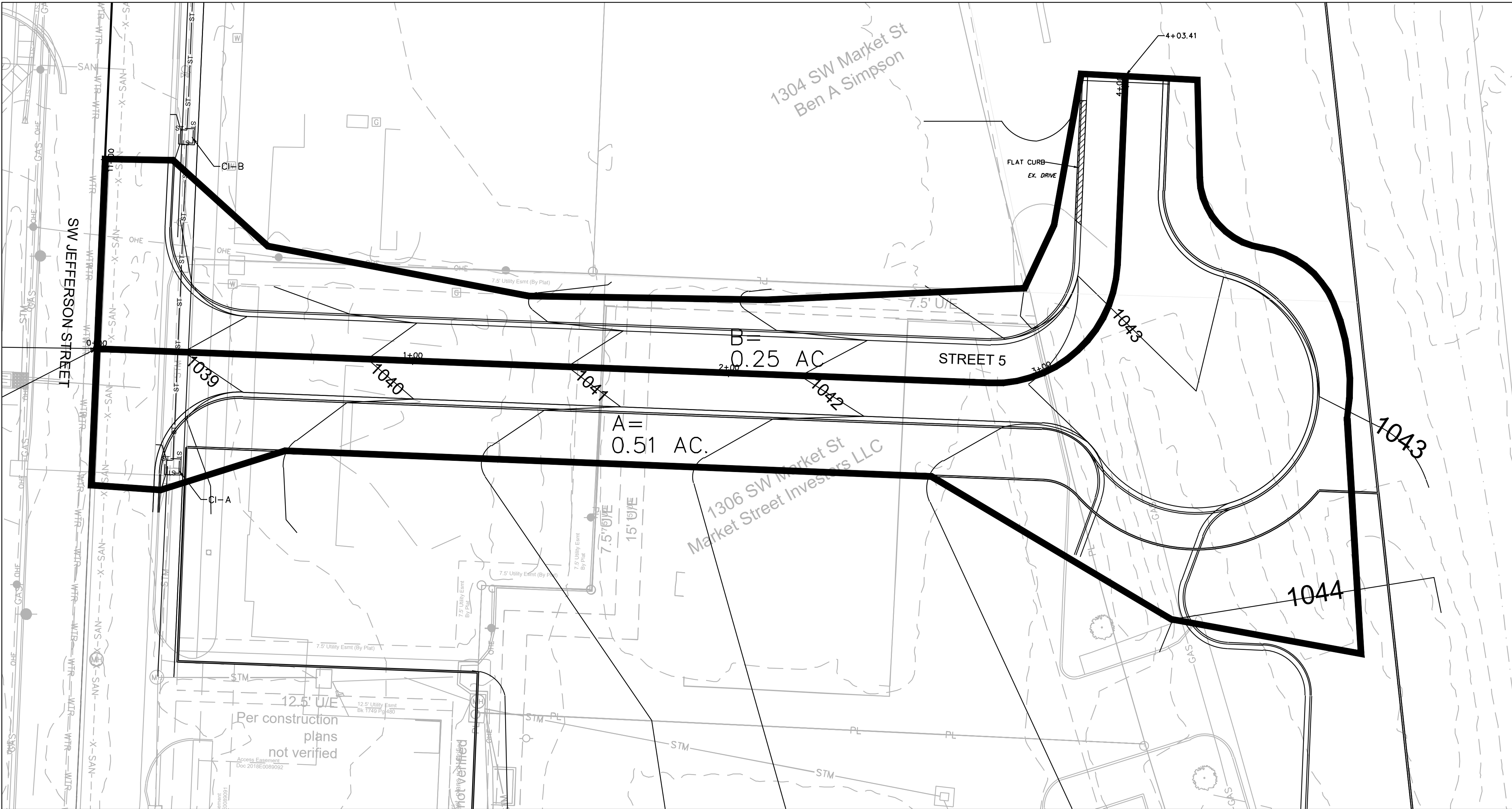
- REVISIONS
- REV. 12/10/2024
 - REV. 1/2/2025
 - REV. 2/6/2025
 - REV. 3/5/2025
 - REV. 3/24/2025
 - REV. 4/15/2025
 - REV. 10/16/2025



OVERALL GRADING PLAN STREET 5
SCALE: 1" = 20'

10-YEAR STRUCTURE																							
D.S. St	U.S. St	Area	InletTim	Int	RunoffCoef	Q = CI	Q Carry-ove	Q Capture	QBypass	JunctTyp	CurbHeight	CurbLength	GutterSlop	GutterWidth	CrossSlope, Sv	CrossSlope, S	LocalDepth	InletDepth	BypassDepth	BypassSpread	GutterDepth	GutterSpread	Bypass Str.
		(ac)	(min)	(in/hr)	(C)	(cfs)	(cfs)	(cfs)	(cfs)		(in)	(ft)	(ft/ft)	(ft)	(ft/ft)		(in)	(ft)	(ft)	(ft)	(ft)	(ft)	
EX CI C	FUT CI B	0.25	5.5	7.10	0.68	1.21	0.00	1.21	0.00	Curb	5.8	5.00	0.010	2.00	0.050	0.020	9.0	0.94	0.00	0.00	0.19	6.43	Offsite
FUT CI B	FUT CI A	0.51	6.5	6.83	0.68	2.37	0.00	2.17	0.19	Curb	5.8	5.00	0.010	2.00	0.050	0.020	9.0	0.98	0.10	2.07	0.23	8.66	Offsite

100-YEAR STRUCTURE																							
D.S. St	U.S. St	Area	InletTim	Int	RunoffCoef	Q = CI	Q Carry-ove	Q Capture	Q Bypass	JunctTyp	CurbHeight	CurbLength	GutterSlop	GutterWidth	CrossSlope, Sv	CrossSlope, S	LocalDepth	InletDepth	BypassDepth	BypassSpread	GutterDepth	GutterSpread	Bypass Str.
		(ac)	(min)	(in/hr)	(C)	(cfs)	(cfs)	(cfs)	(cfs)		(in)	(ft)	(ft/ft)	(ft)	(ft/ft)	(ft/ft)	(in)	(ft)	(ft)	(ft)	(ft)	(ft)	
EX CI C	FUT CI B	0.25	5.5	9.66	0.68	1.64	0.00	1.63	0.01	Curb	5.8	5.00	0.010	2.00	0.050	0.020	9.0	0.96	0.03	0.69	0.21	7.39	Offsite
FUT CI B	FUT CI A	0.51	6.5	9.33	0.68	3.24	0.00	2.67	0.56	Curb	5.8	5.00	0.010	2.00	0.050	0.020	9.0	1.01	0.15	4.39	0.26	9.87	Offsite



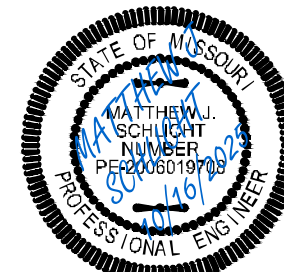
Overall Grading Plan Street 5

Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

Project: MARKETPLACE, LS MO
Issue Date: November 6, 2024

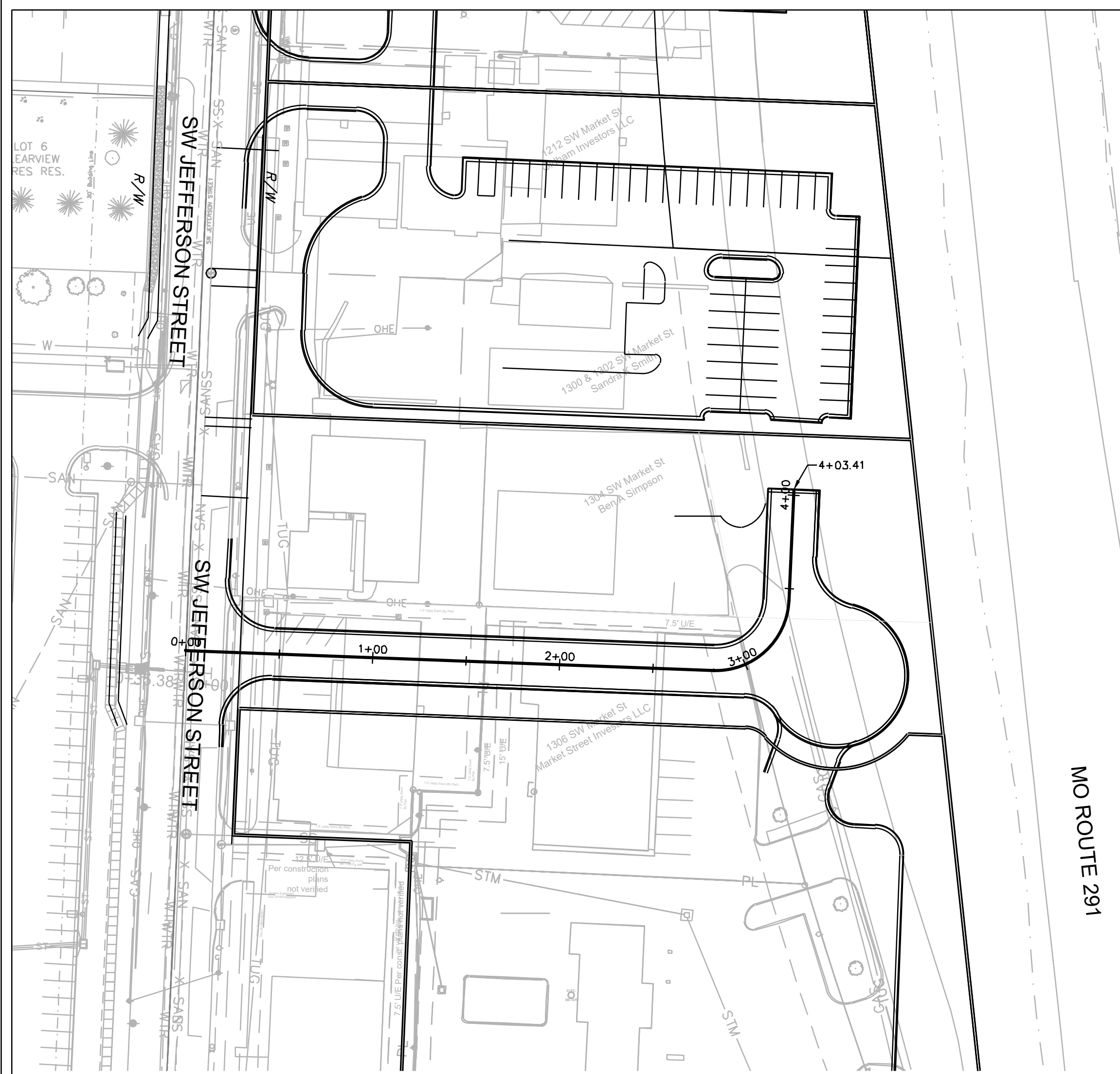
Oldham Village
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 200500318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

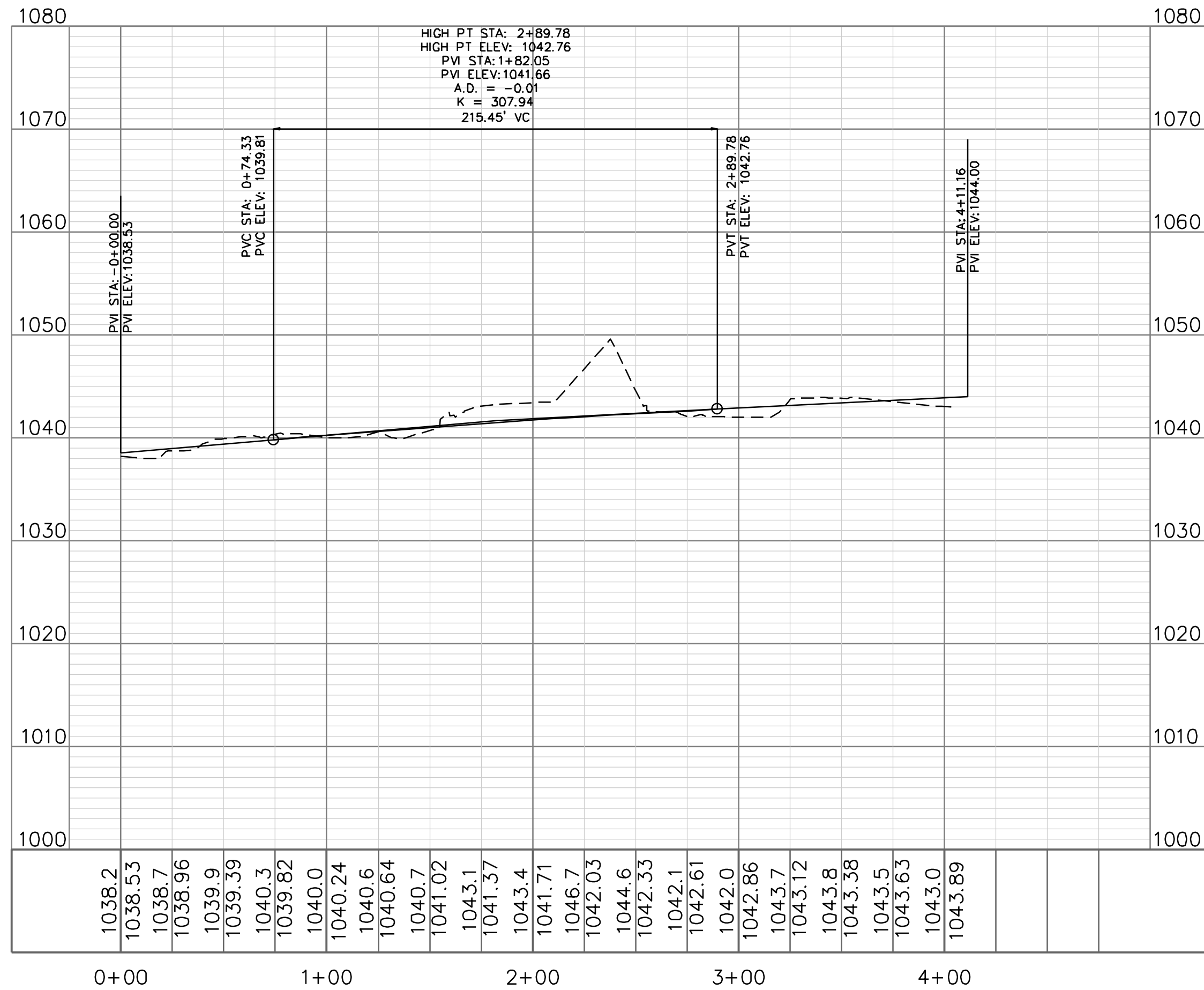


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

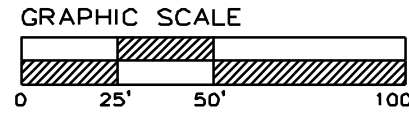
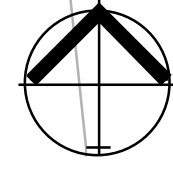
REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



STREET 5

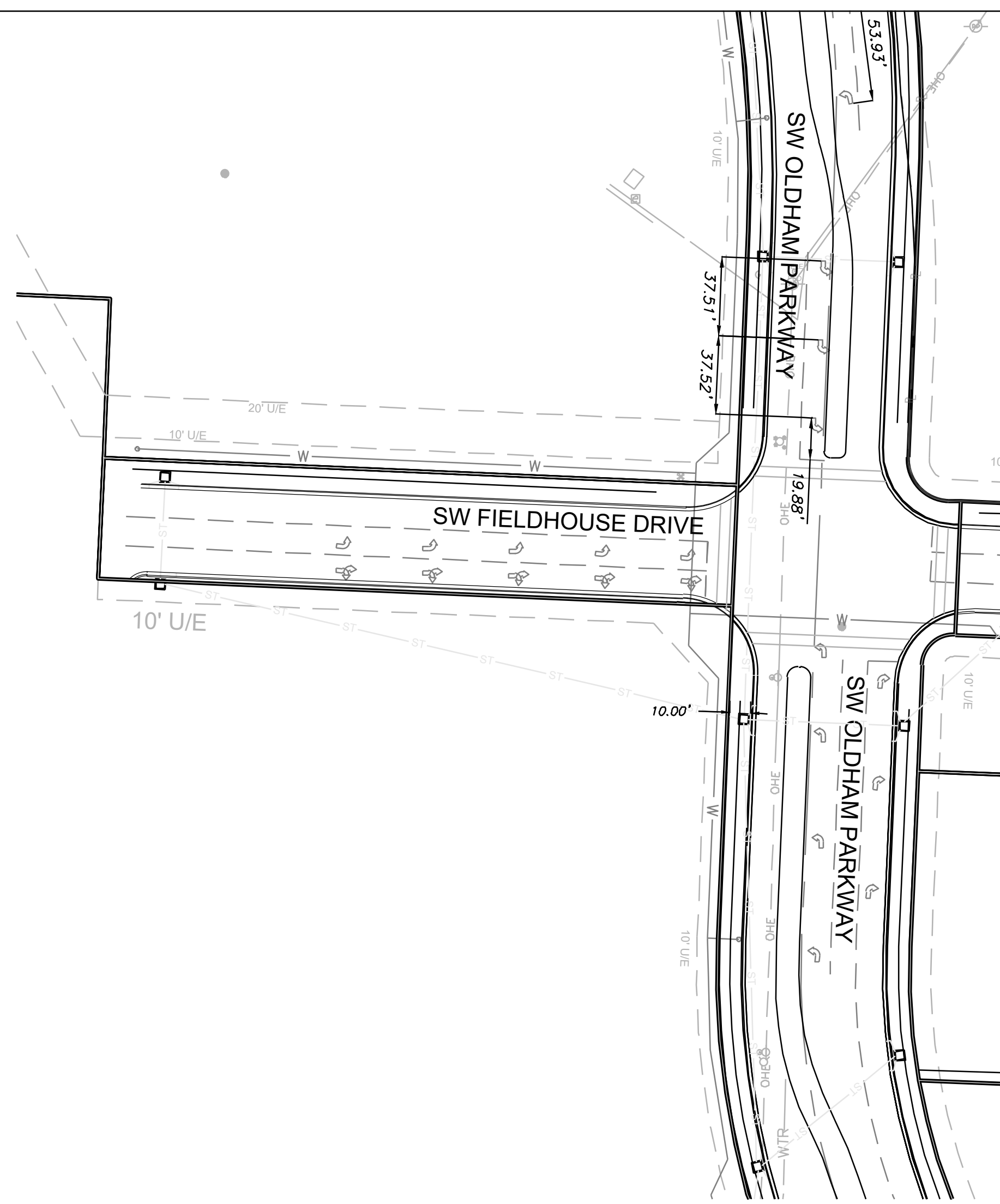
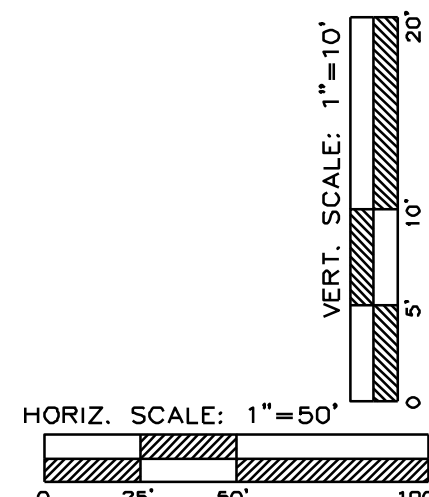


MO ROUTE 291

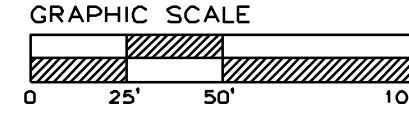
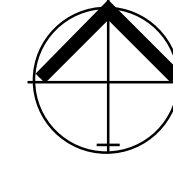
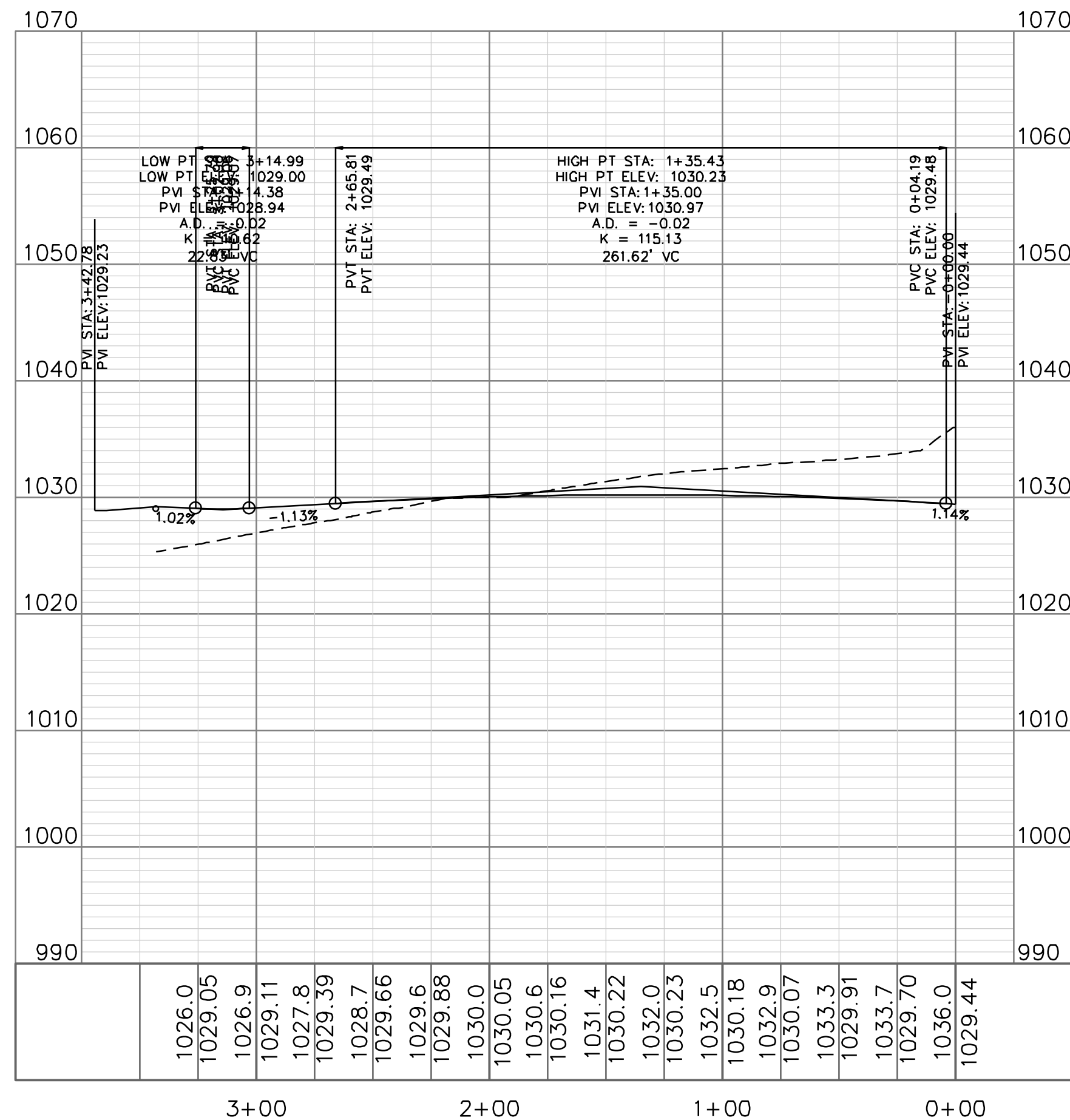


STREET PLAN & PROFILE

SCALE: 1" = 50'

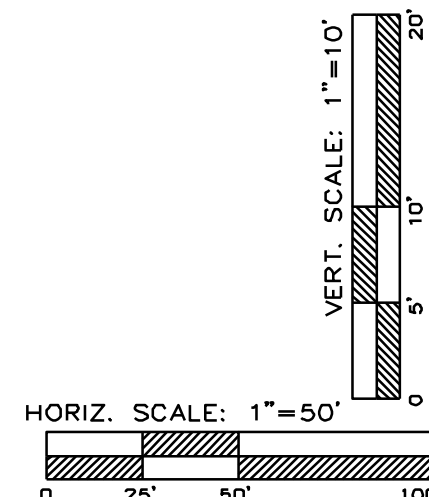


SW FIELDHOUSE DRIVE



STREET PLAN & PROFILE

SCALE: 1" = 50'



Street Plan and Profile

Construction Plans for:

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: SW
MARKETPLACE
LSMO
Issue Date:
November 5, 2024

Oldham Village
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6284
Nebraska
Engineering CA2821



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



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

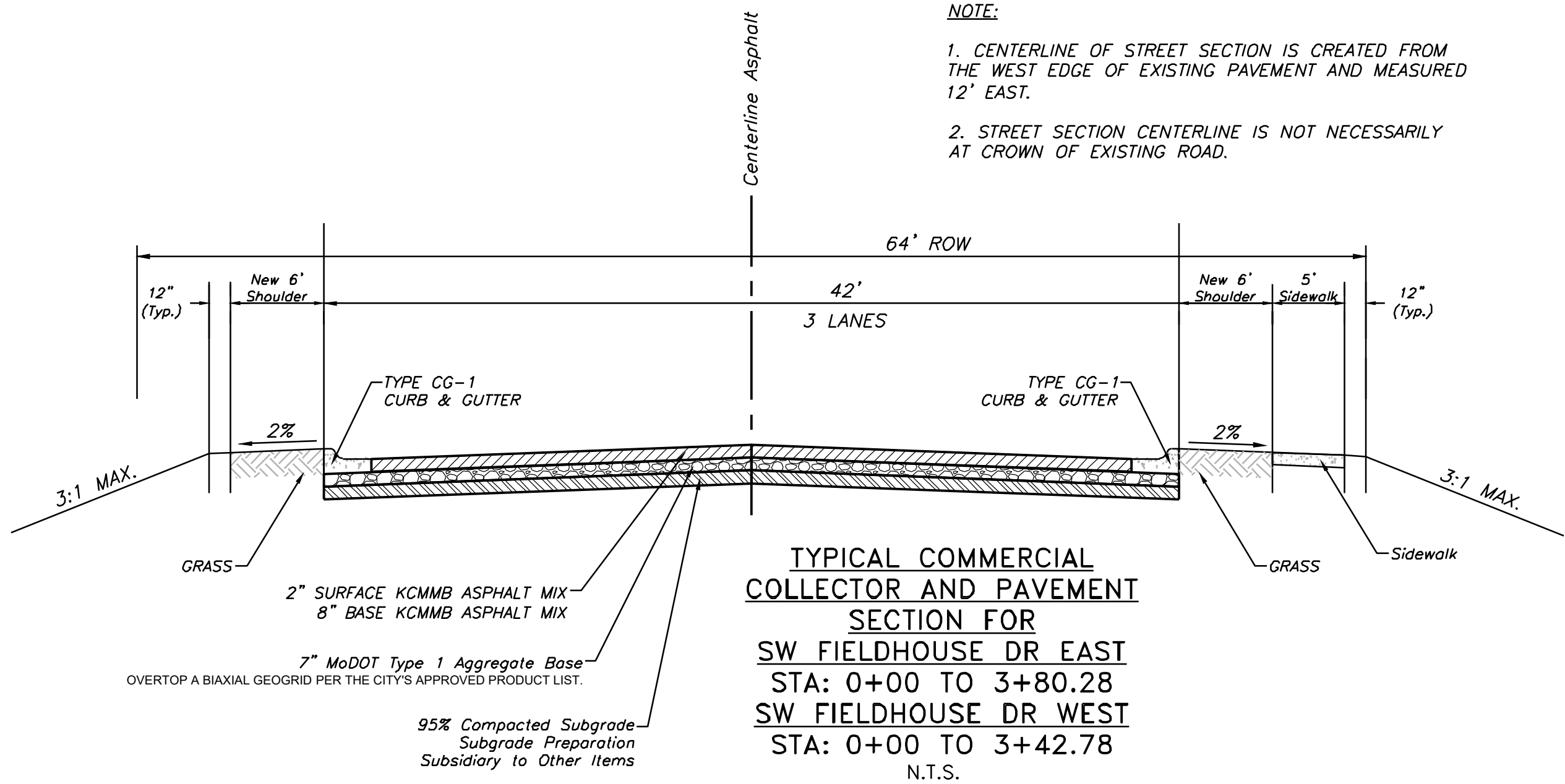
REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

GENERAL NOTES:

- 1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 - ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.
3 - ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
4 - THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5 - THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
6 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

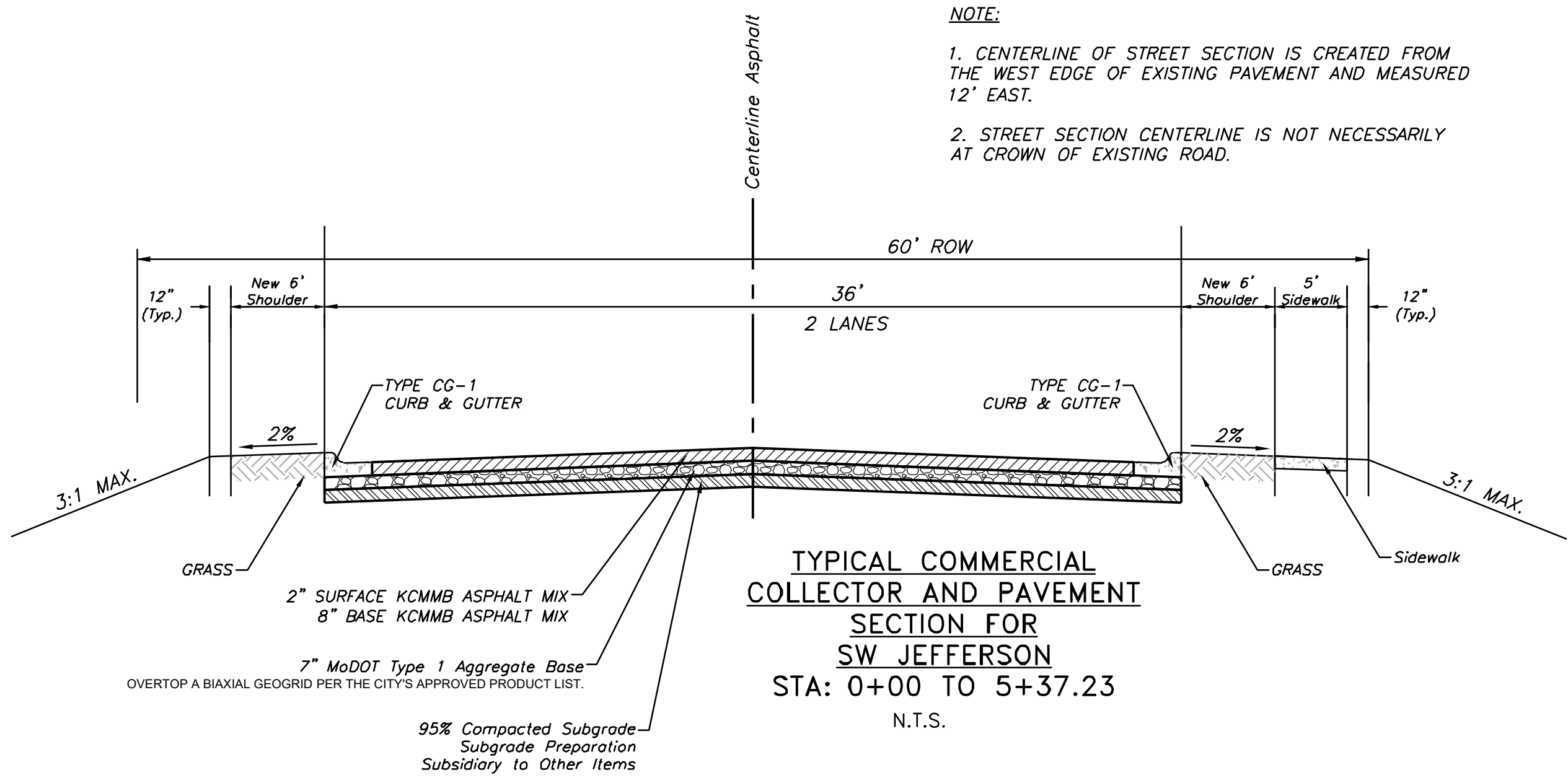
NOTE:

1. CENTERLINE OF STREET SECTION IS CREATED FROM THE WEST EDGE OF EXISTING PAVEMENT AND MEASURED 12' EAST.
2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



NOTE:

1. CENTERLINE OF STREET SECTION IS CREATED FROM THE WEST EDGE OF EXISTING PAVEMENT AND MEASURED 12' EAST.
2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



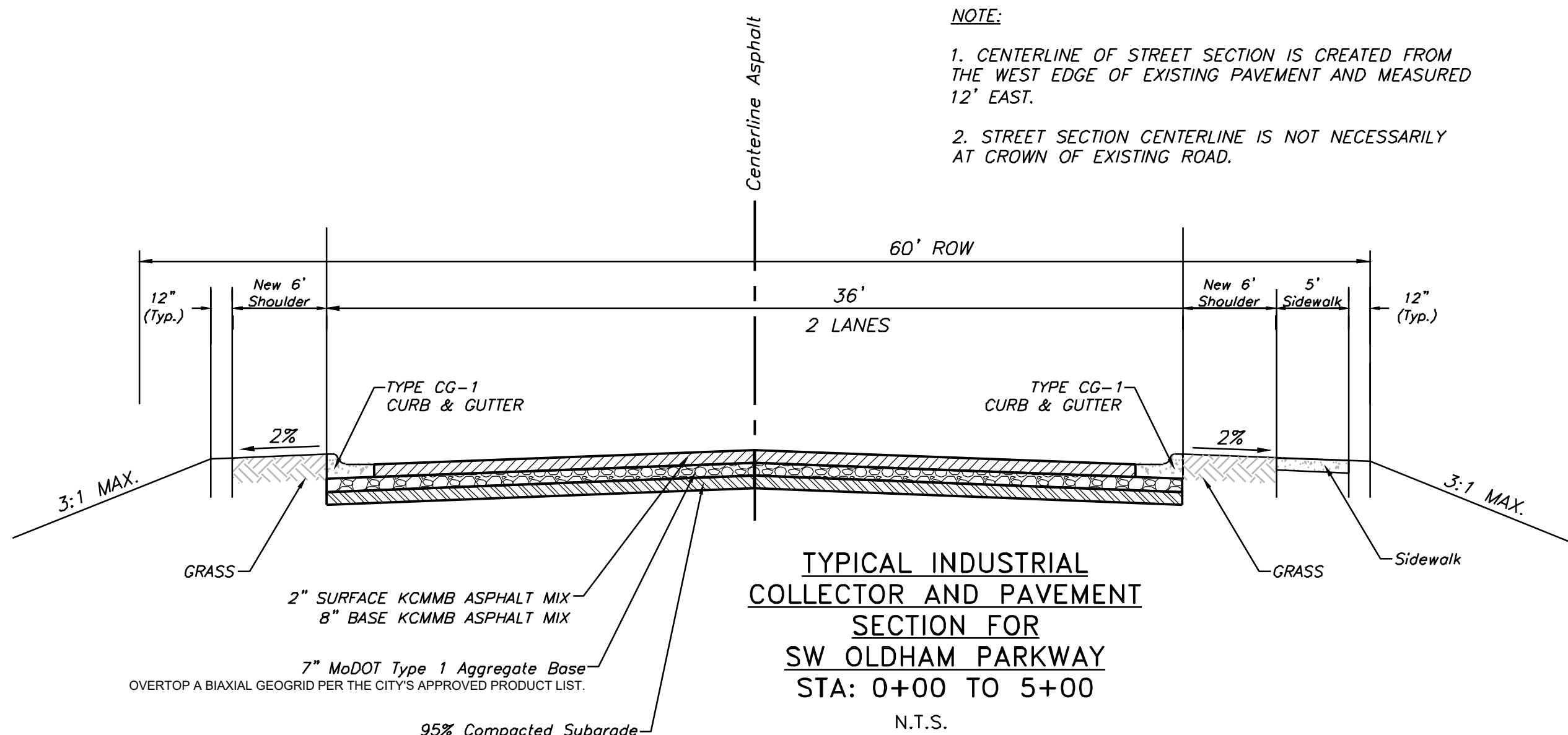
B. Weather Limitations: When the moisture of the aggregate in the stockpile or from the dryer interferes with the quality of mix production, or with normal plant operations, the mixing and placing of hot-mix asphalt will not be permitted without the permission of the Engineer. No mixture shall be placed on wet or frozen surface.

Hot Mix asphalt paving shall not be mixed or placed when the ambient air or base temperature is below the temperatures shown in the following table, or when there is frost in the subgrade or any other time when weather conditions are unsuitable for the type of material being placed without expressed approval of the Engineer.

Paving Course	Thickness (inches)	Air Temperature (Degrees F)	Road Surface Temperature (Degrees F)
Surface	All	50	55
Base	Less than 3	40	45
Base	3 or more	30	35

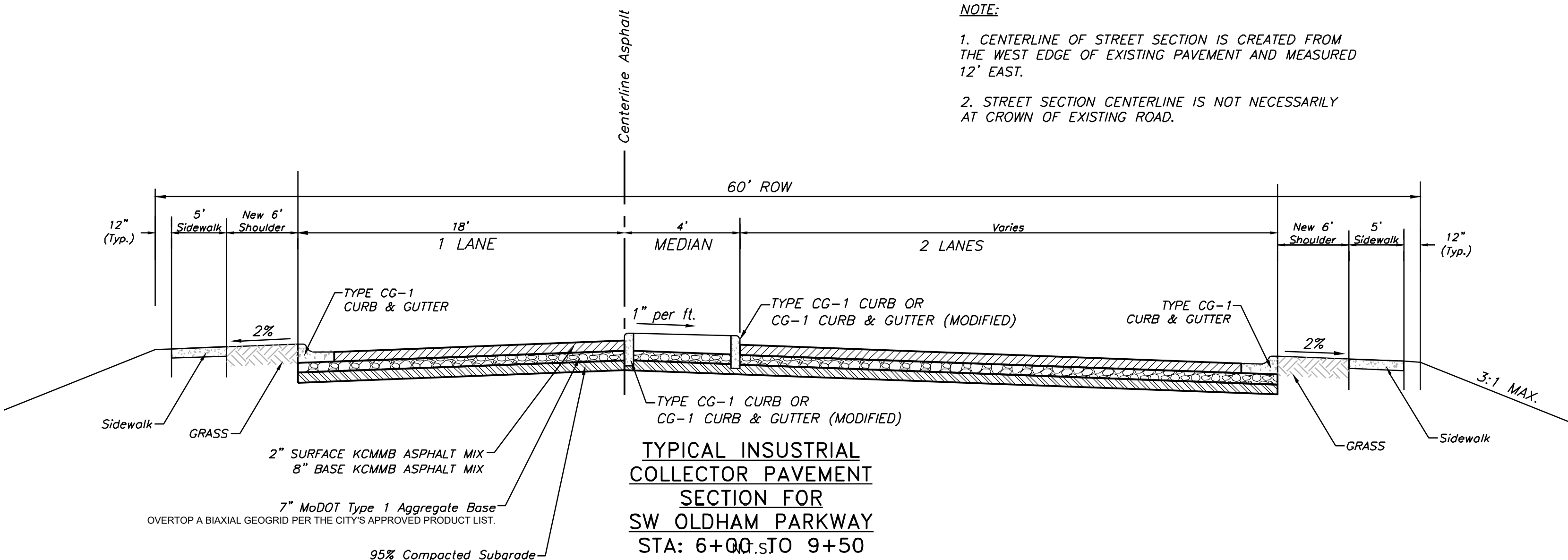
NOTE:

1. CENTERLINE OF STREET SECTION IS CREATED FROM THE WEST EDGE OF EXISTING PAVEMENT AND MEASURED 12' EAST.
2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



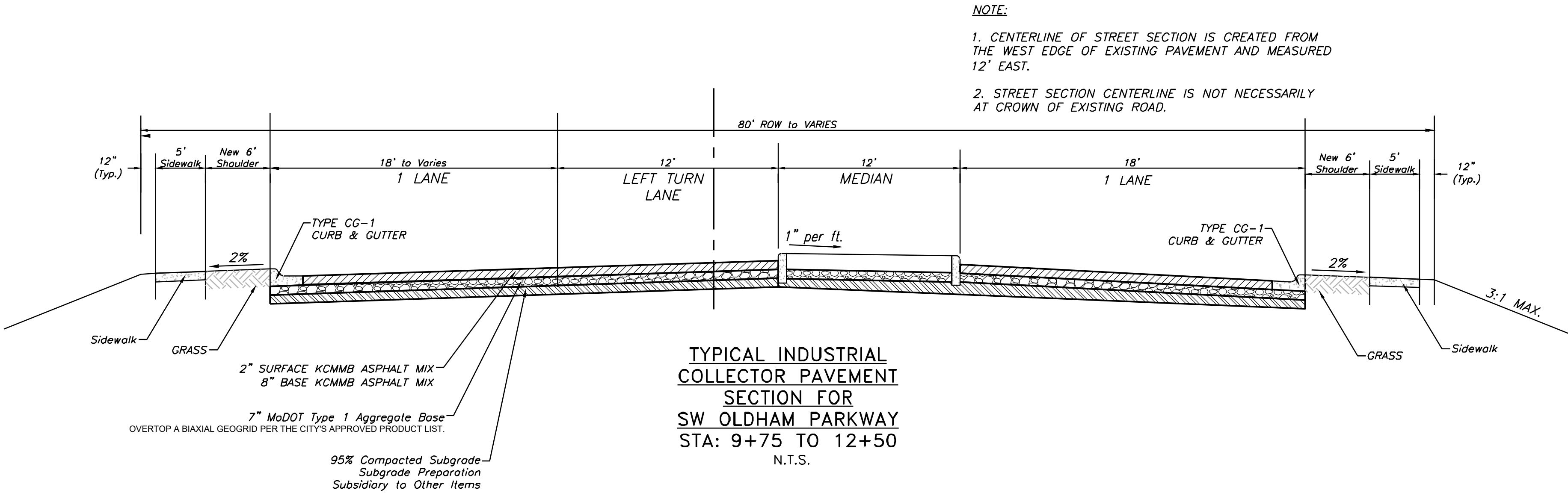
NOTE:

1. CENTERLINE OF STREET SECTION IS CREATED FROM THE WEST EDGE OF EXISTING PAVEMENT AND MEASURED 12' EAST.
2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



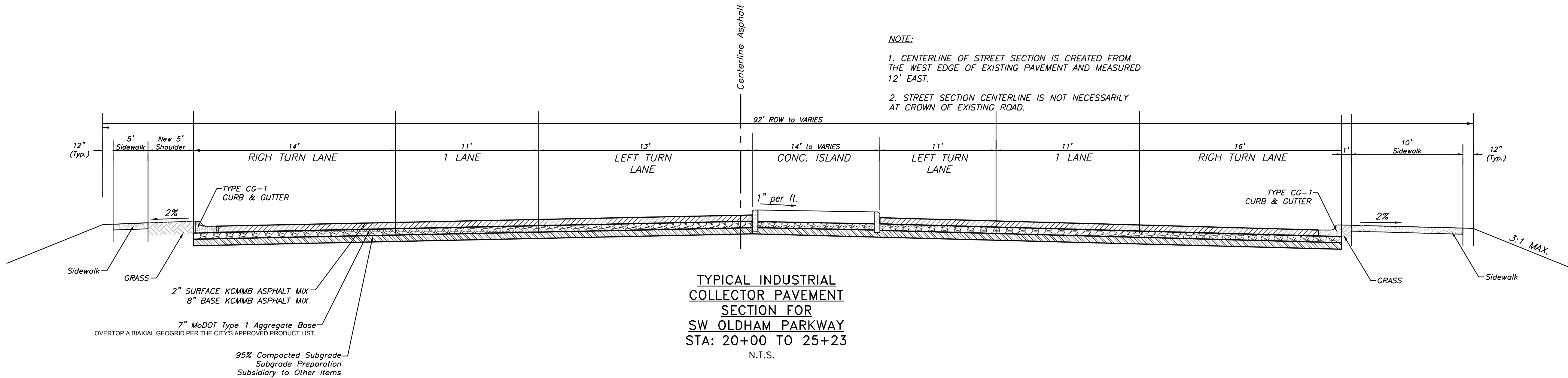
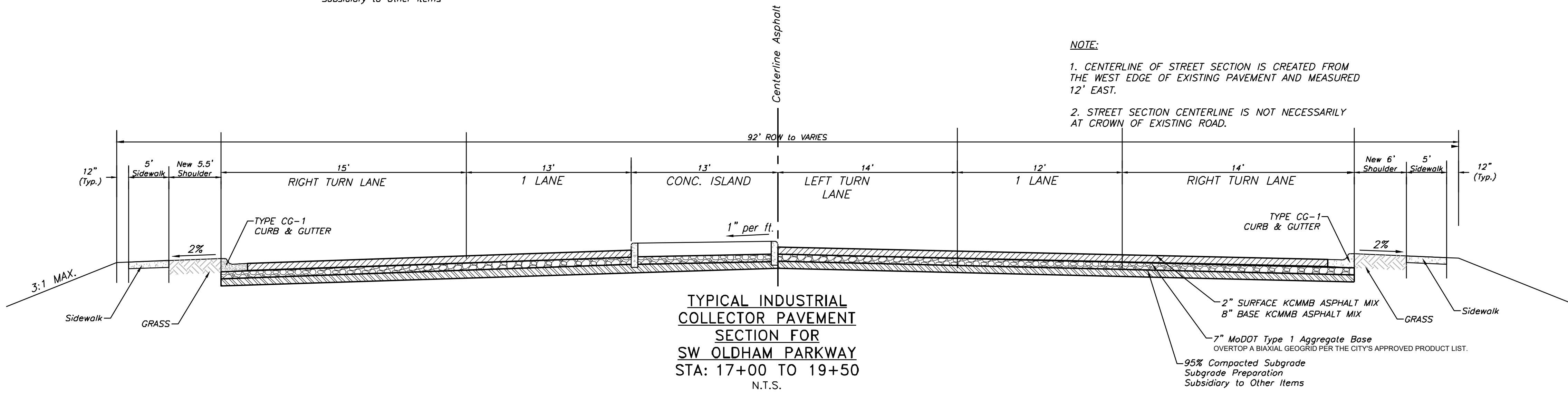
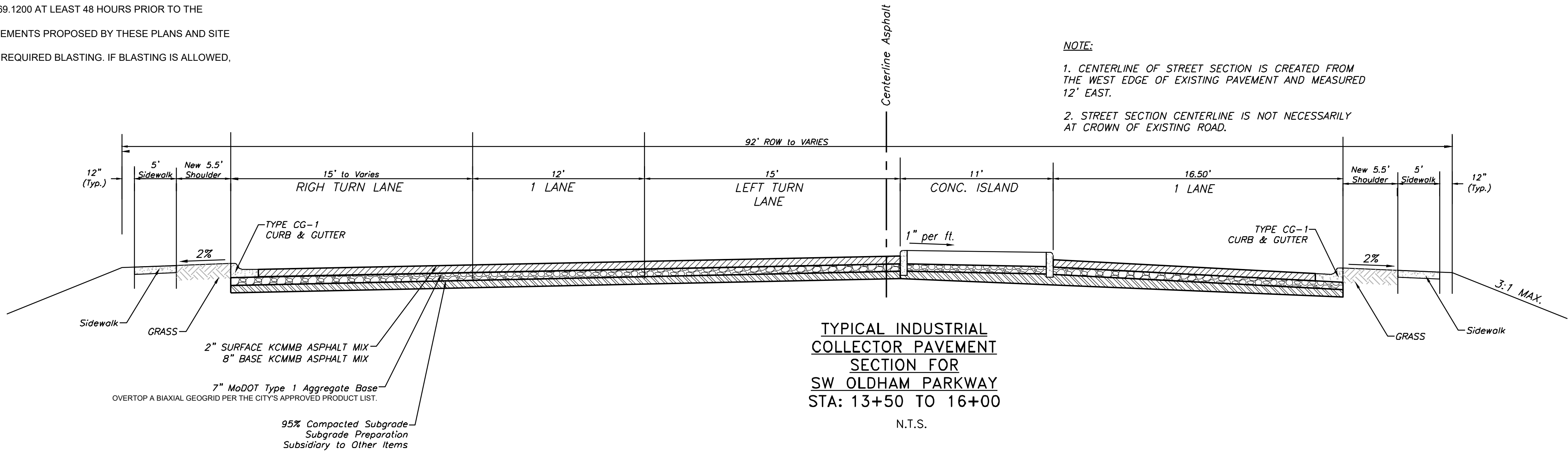
NOTE:

1. CENTERLINE OF STREET SECTION IS CREATED FROM THE WEST EDGE OF EXISTING PAVEMENT AND MEASURED 12' EAST.
2. STREET SECTION CENTERLINE IS NOT NECESSARILY AT CROWN OF EXISTING ROAD.



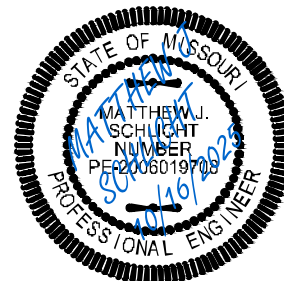
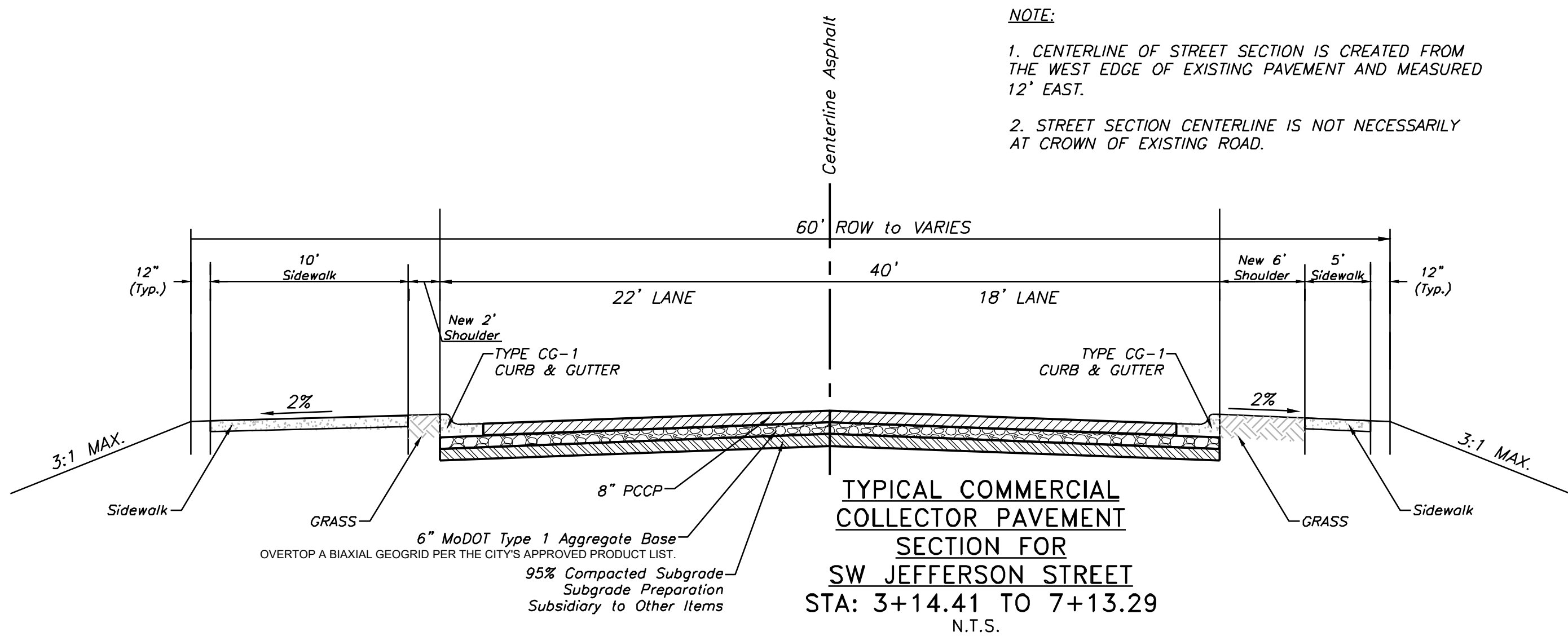
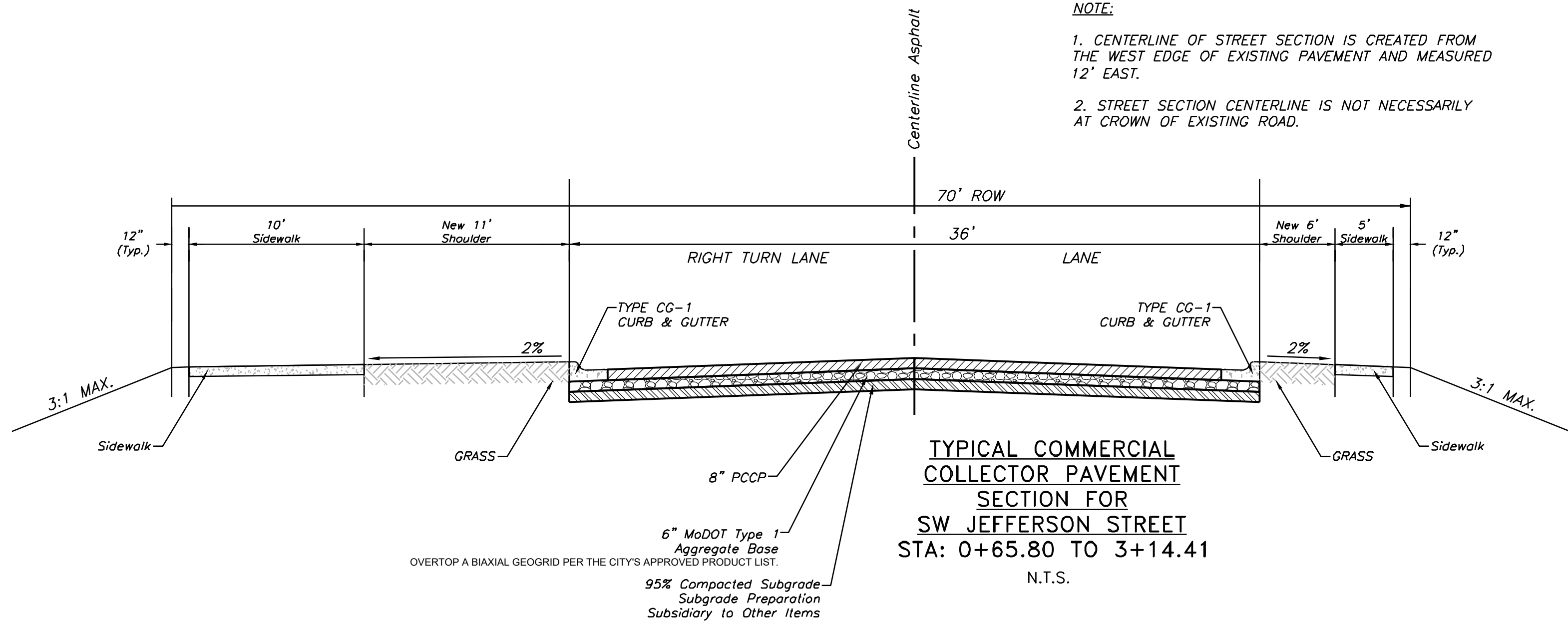
GENERAL NOTES:

- 1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 - ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.
3 - ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
4 - THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5 - THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
6 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.



GENERAL NOTES:

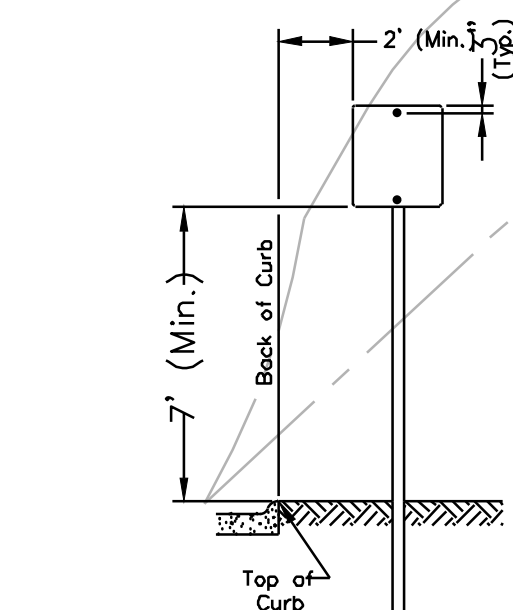
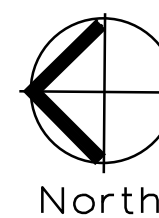
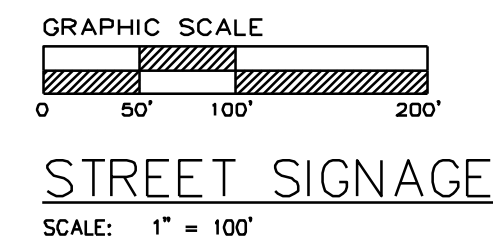
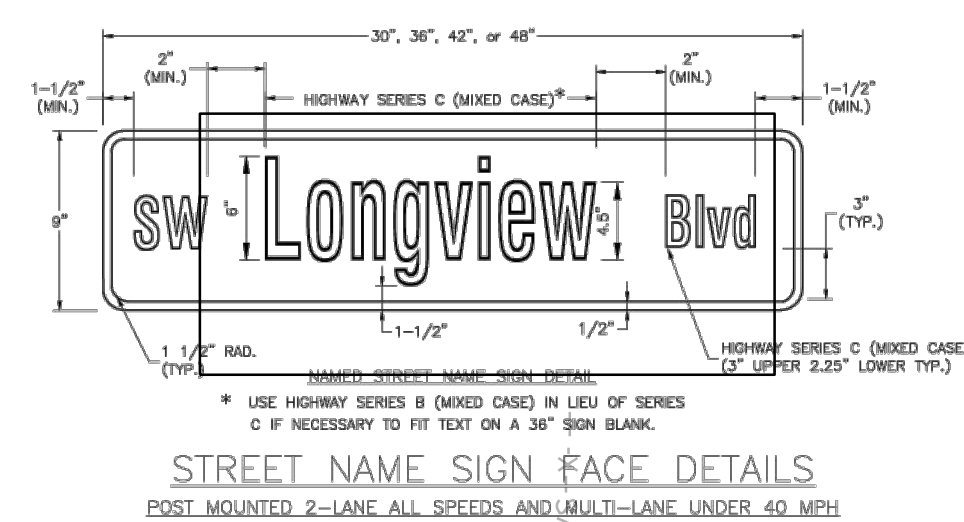
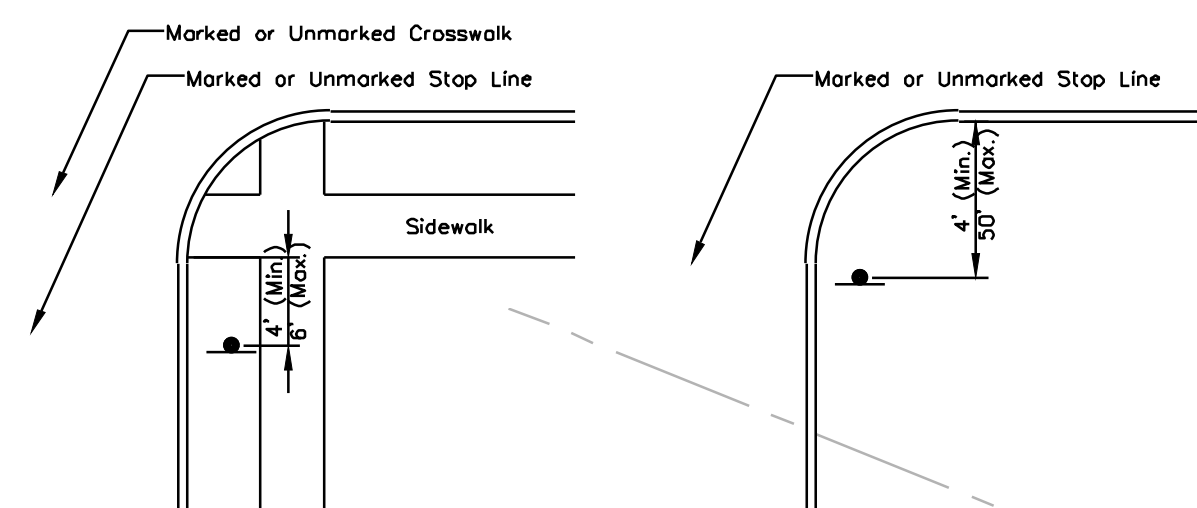
- 1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 - ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.
3 - ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
4 - THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5 - THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
6 - THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.



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

REVISIONS

- REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025



* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.



Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
OLDHAM
MARKETPLACE,
LSMO

Street Signage Plan

Construction Plans for:
Oldham Village

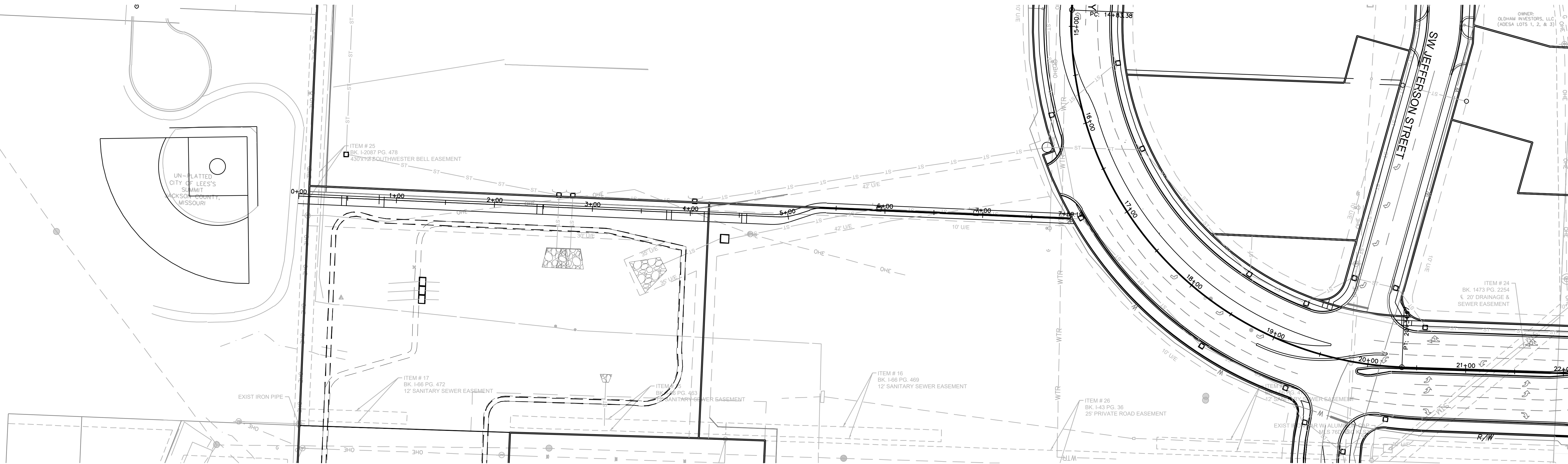
Lee's Summit, Jackson County, Missouri



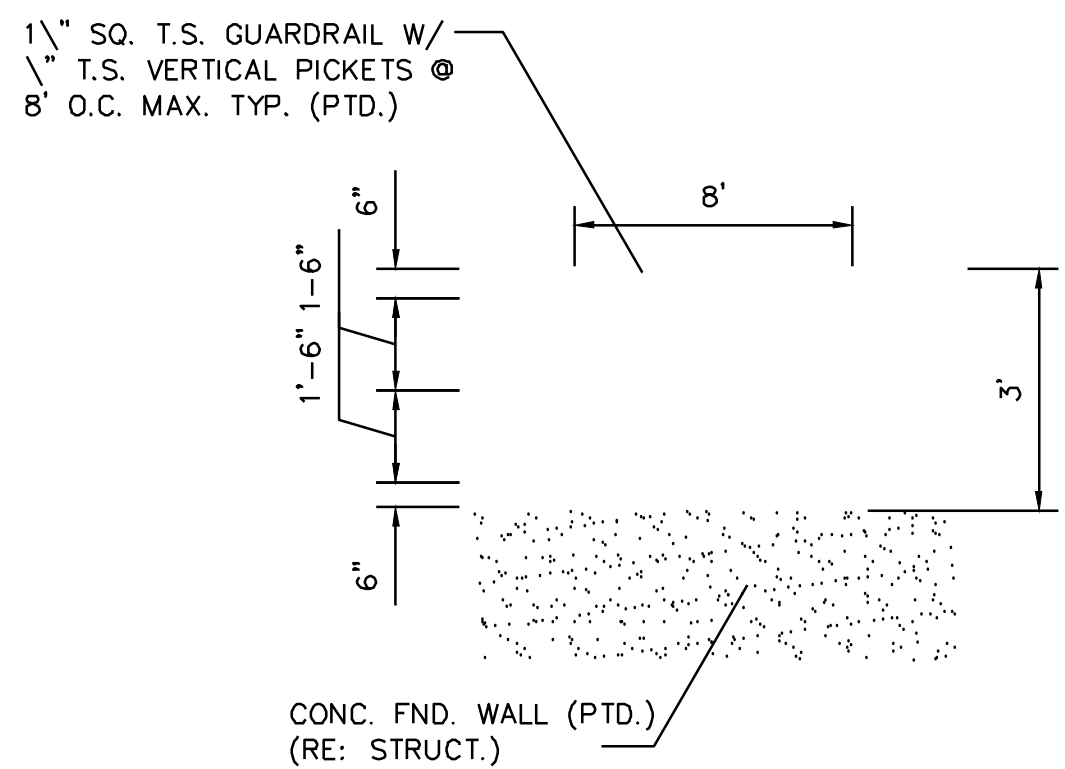
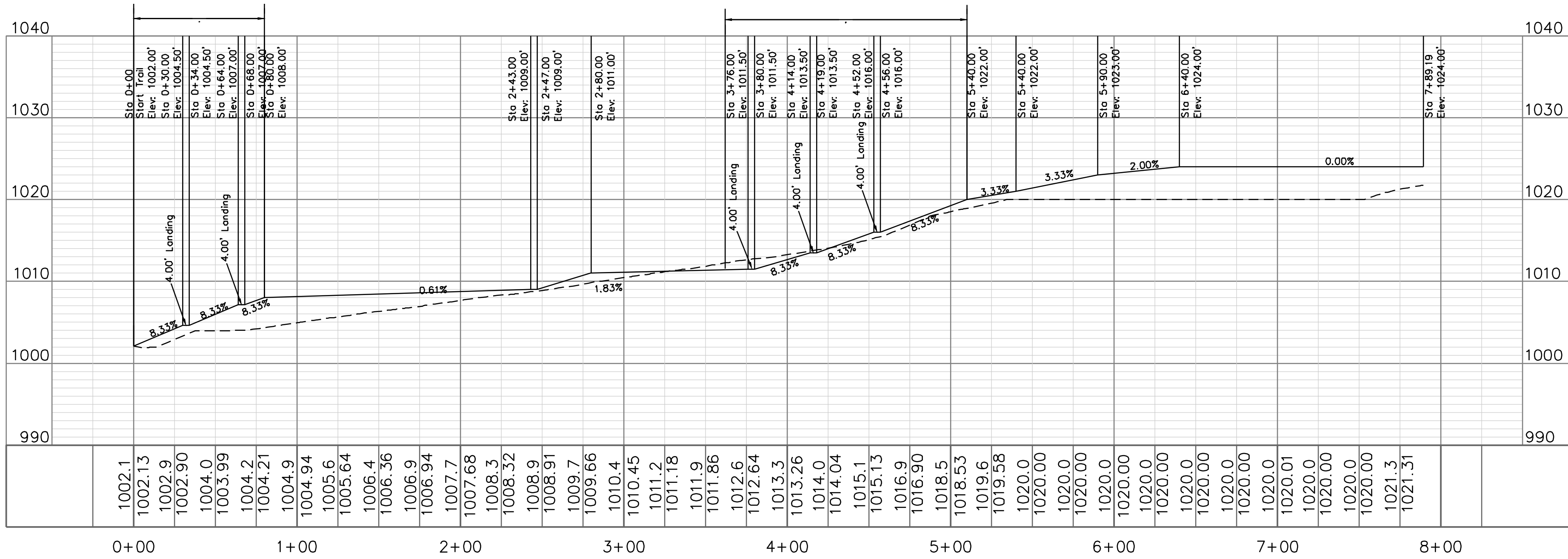
Matthew J. Schlich
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS

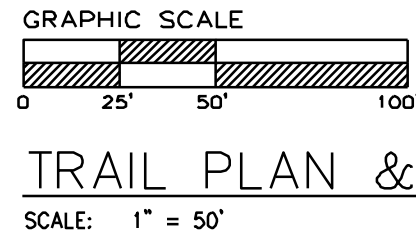
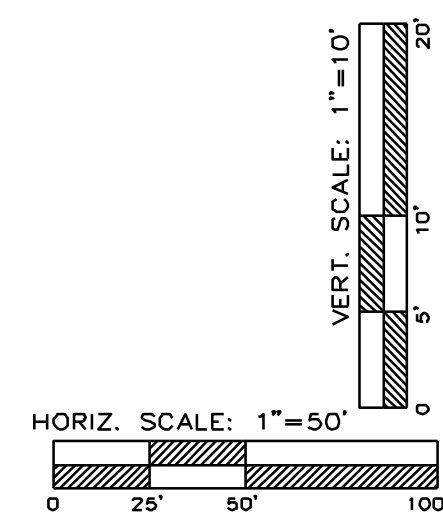
- 1 REV. 12/10/2024
 2 REV. 1/2/2025
 3 REV. 2/6/2025
 REV. 3/5/2025
 4 REV. 3/24/2025
 5 REV. 4/15/2025
 REV. 10/16/2025



PARK TRAIL ACCESS



HAND RAIL
NOT TO SCALE



TRAIL PLAN & PROFILE

SCALE: 1" = 50'

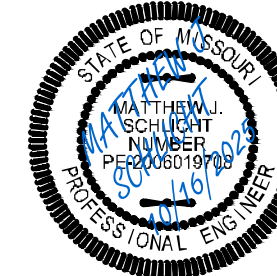


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

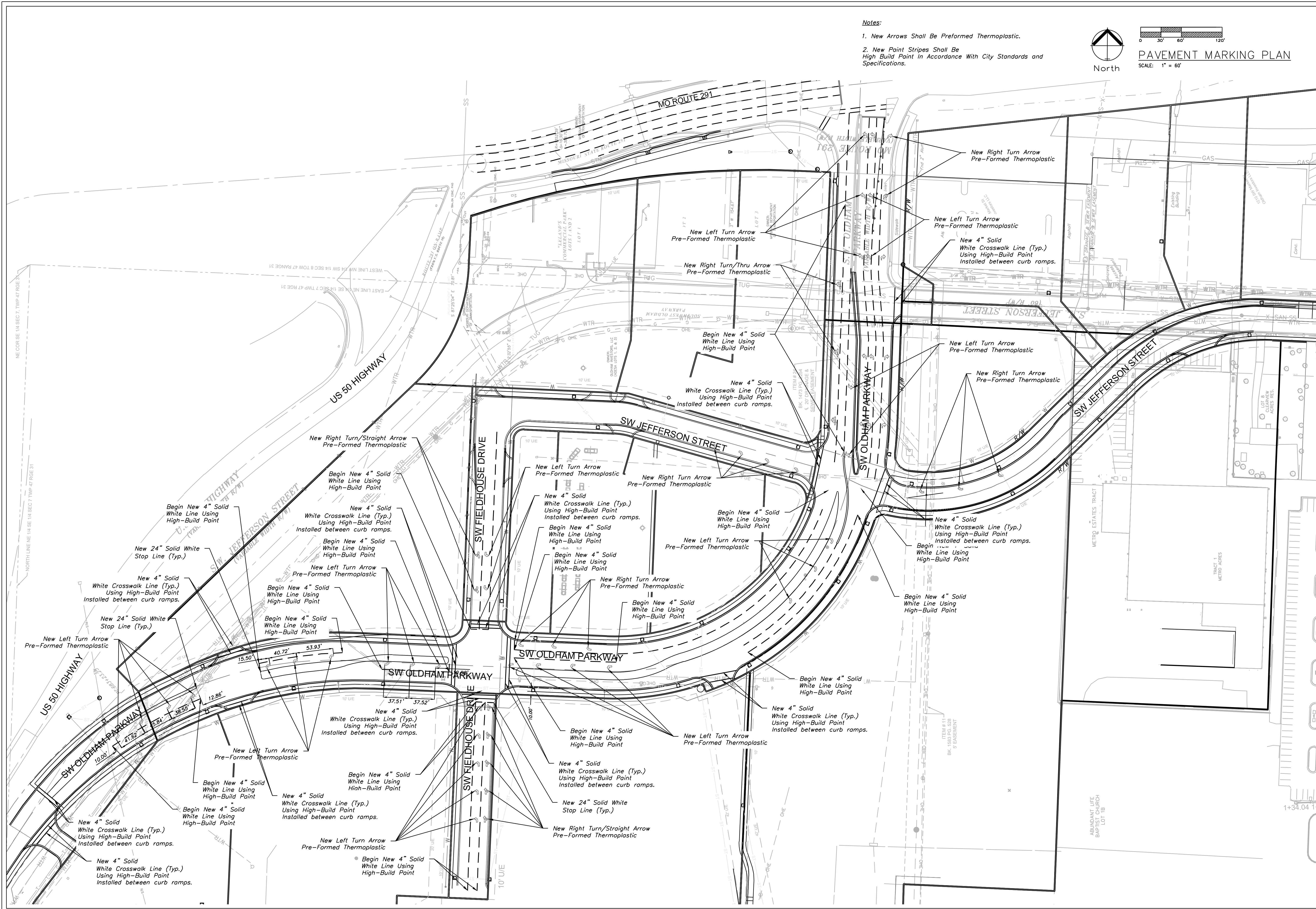
Project: OLDHAM VILLAGE
MARKETPLACE
LSMO
Issue Date:
November 6, 2024

Trail Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



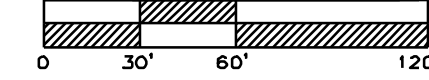
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
REV. 12/10/2024	REV. 1/2/2025
REV. 2/6/2025	REV. 3/5/2025
REV. 3/24/2025	REV. 4/15/2025
REV. 10/16/2025	



Notes:

1. New Arrows Shall Be Preformed Thermoplastic.
2. New Point Stripes Shall Be High Build Point In Accordance With City Standards and Specifications.



PAVEMENT MARKING PLAN

SCALE: 1" = 60'

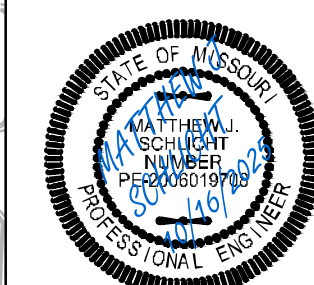


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

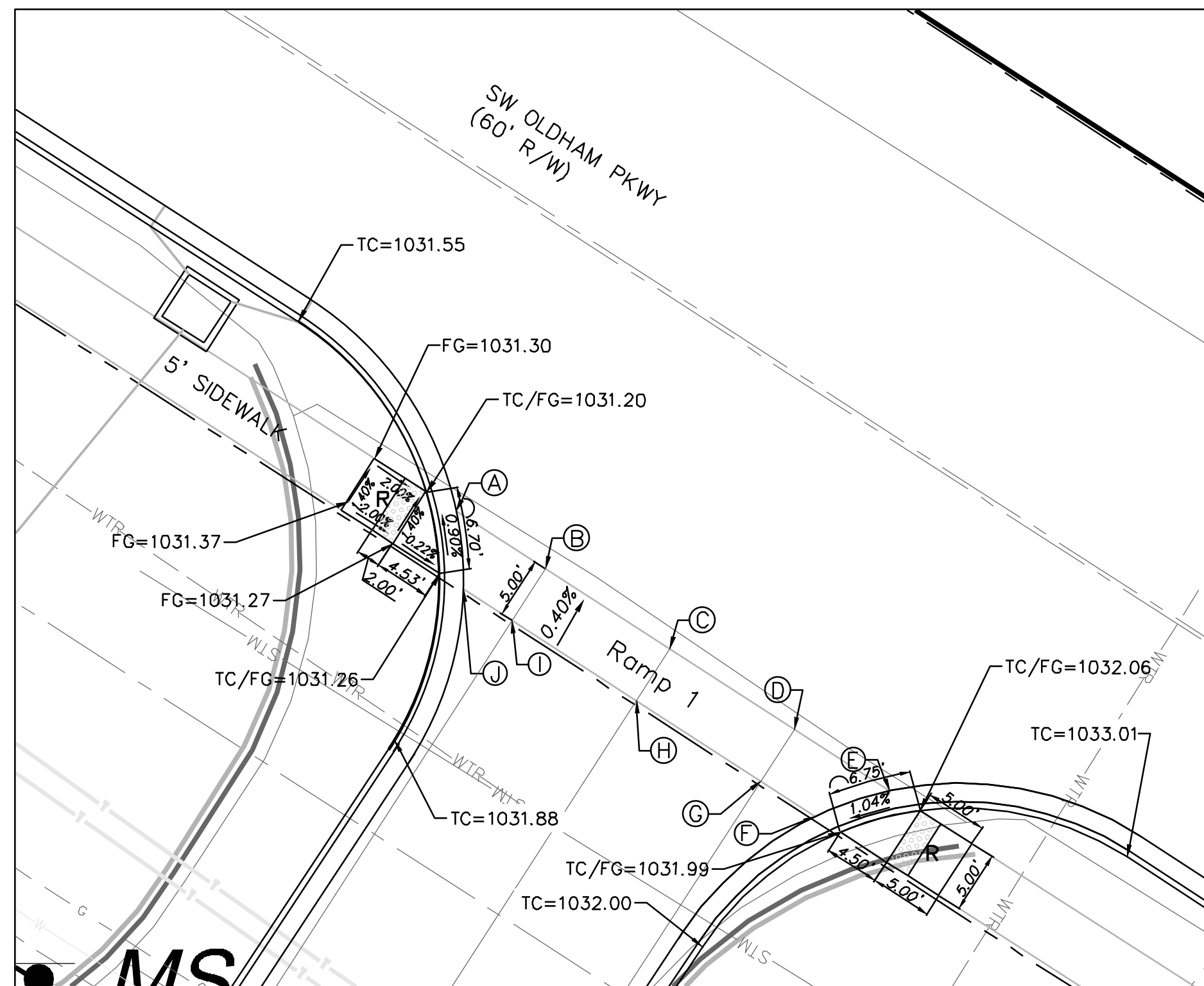
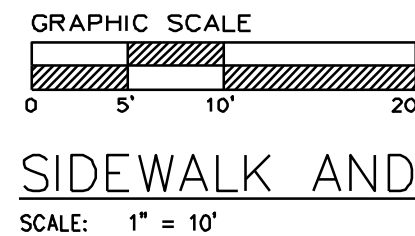
Project: MARKETPLACE, LS MO
Issue Date: November 6, 2024

PAVEMENT MARKING PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

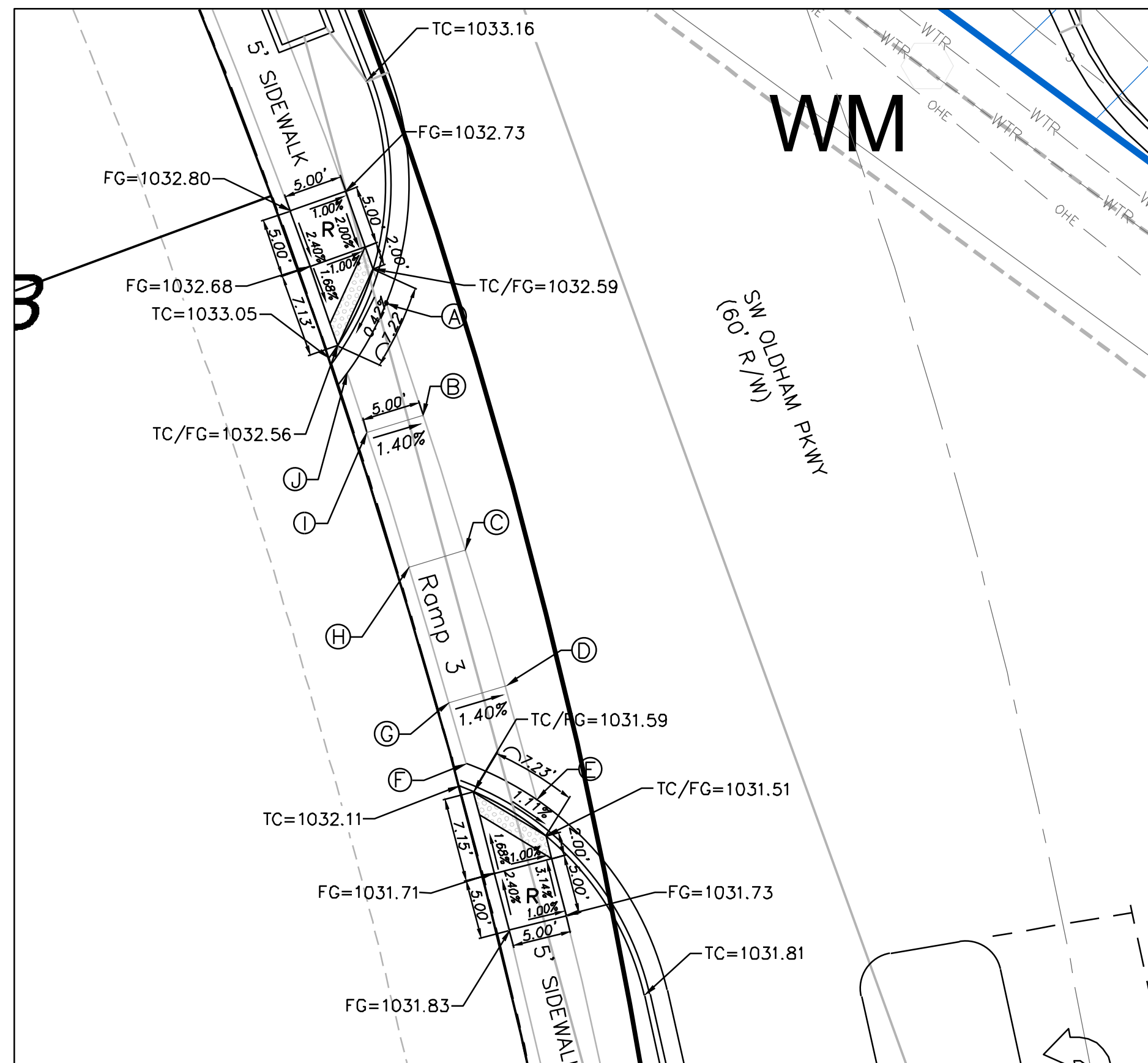
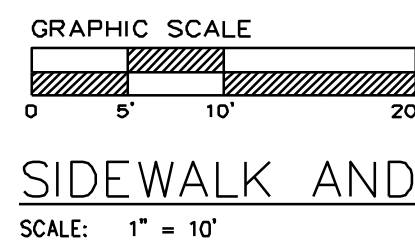
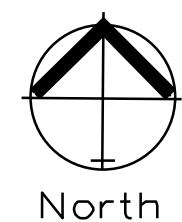


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



DETAIL 1



DETAIL 3

Legend:

EX TC = Existing Top of Curb

EX FG = Existing Finished Grade

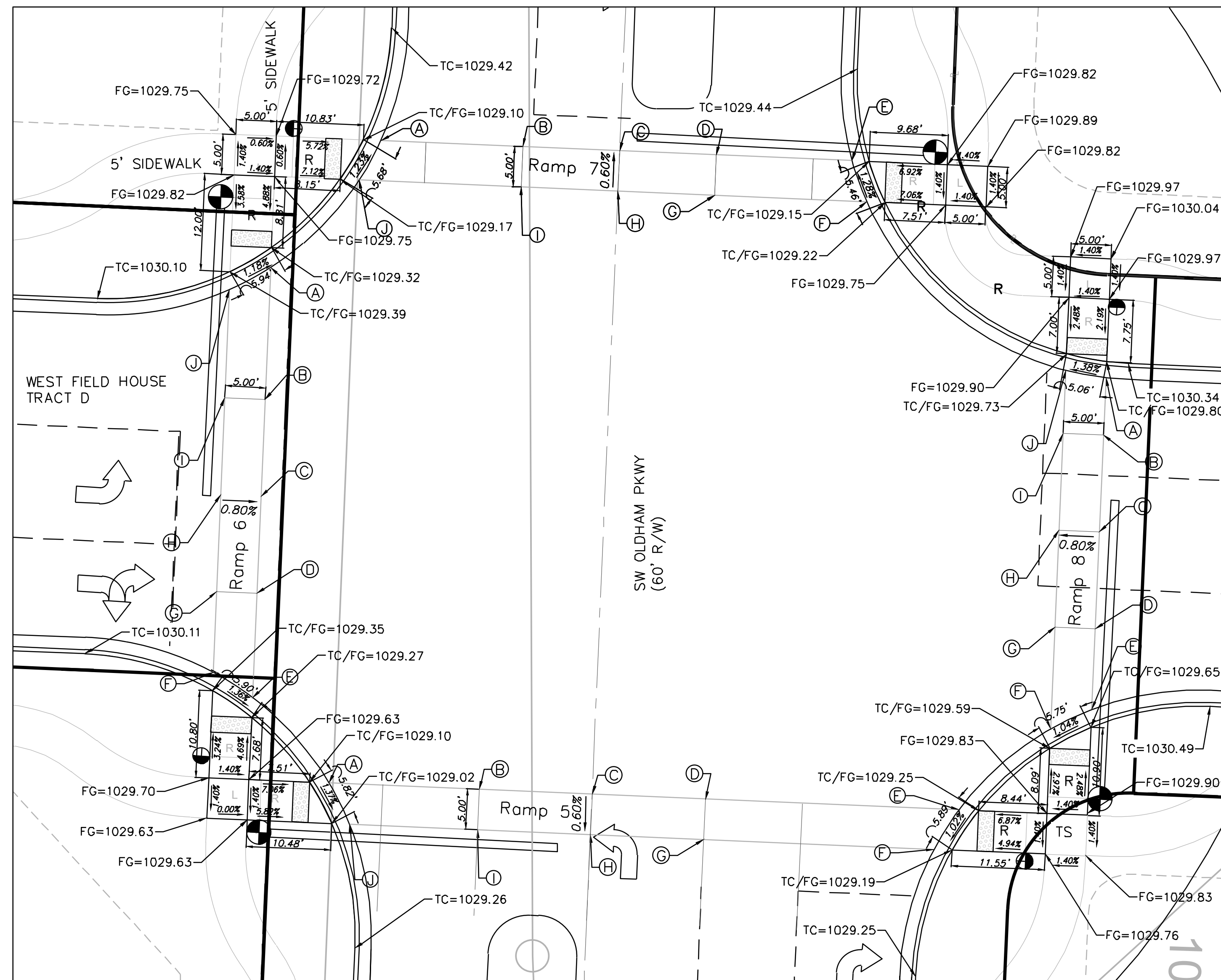
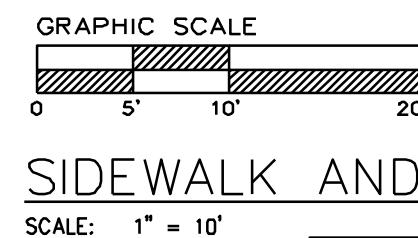
FG = Finished Grade

TC = Top of Curb

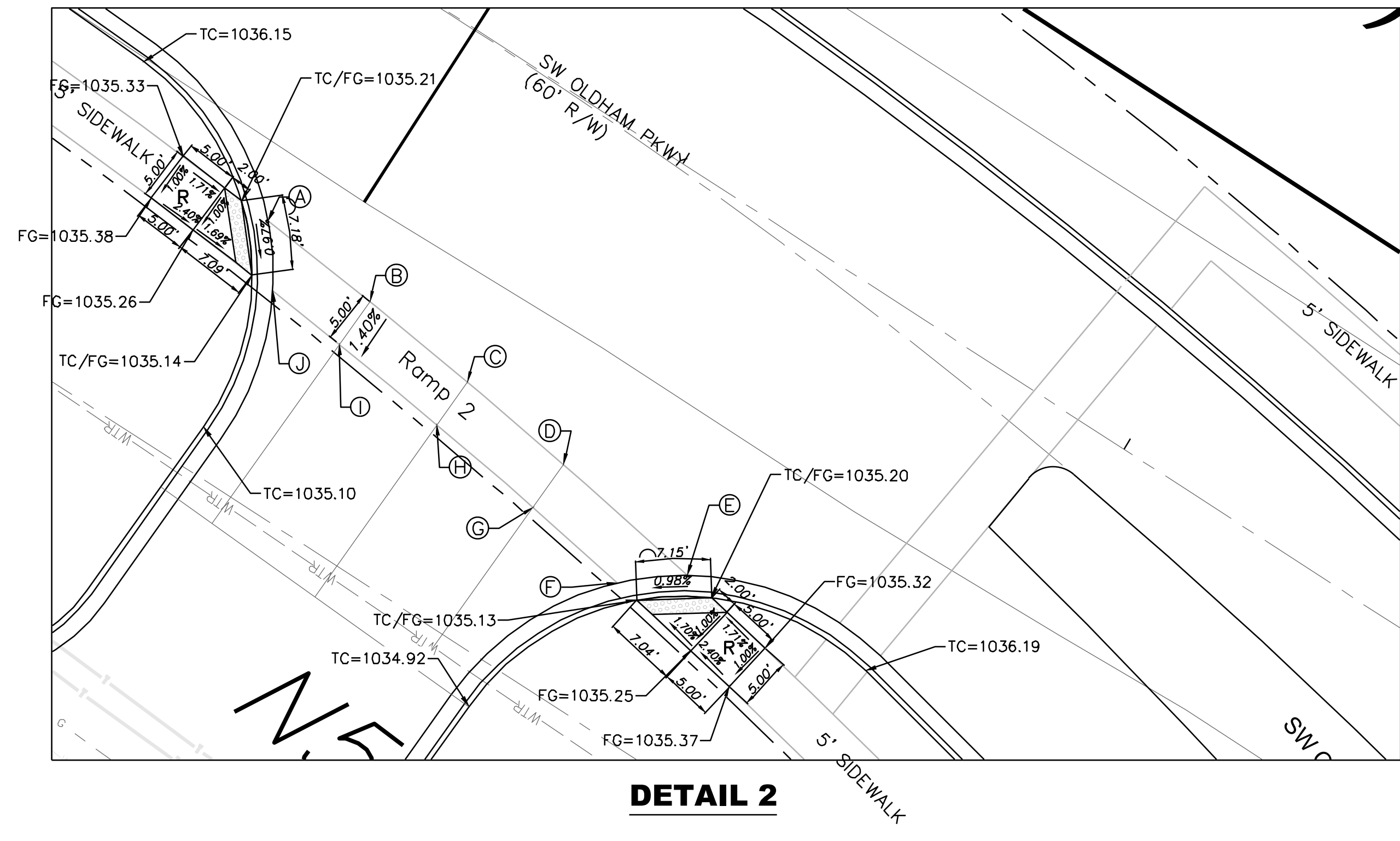
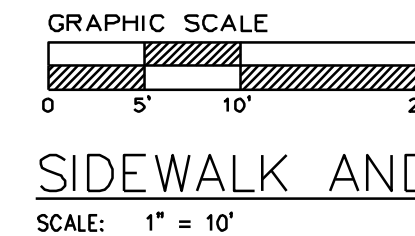
TC/FG = Top of Curb/Finished Grade

Detectable Warning

SPOT ELEVATION TABLE				
Spot	Ramp 1 Elevation	Ramp 2 Elevation	Ramp 3 Elevation	Ramp 4 Elevation
A	1031.20	1035.21	1032.59	1035.21
B	1031.38	1035.21	1032.34	1035.21
C	1031.62	1035.21	1032.05	1035.21
D	1031.87	1035.20	1031.76	1035.20
E	1032.06	1035.20	1031.51	1035.20
F	1031.99	1035.13	1031.59	1035.13
G	1031.88	1035.13	1031.74	1035.13
H	1031.62	1035.14	1032.08	1035.14
I	1031.36	1035.14	1032.41	1035.14
J	1031.26	1035.14	1032.56	1035.14



DETAIL 4



DETAIL 2

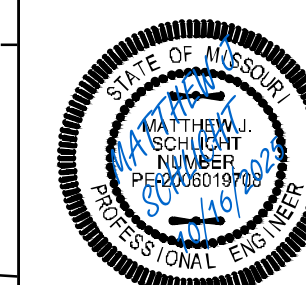


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

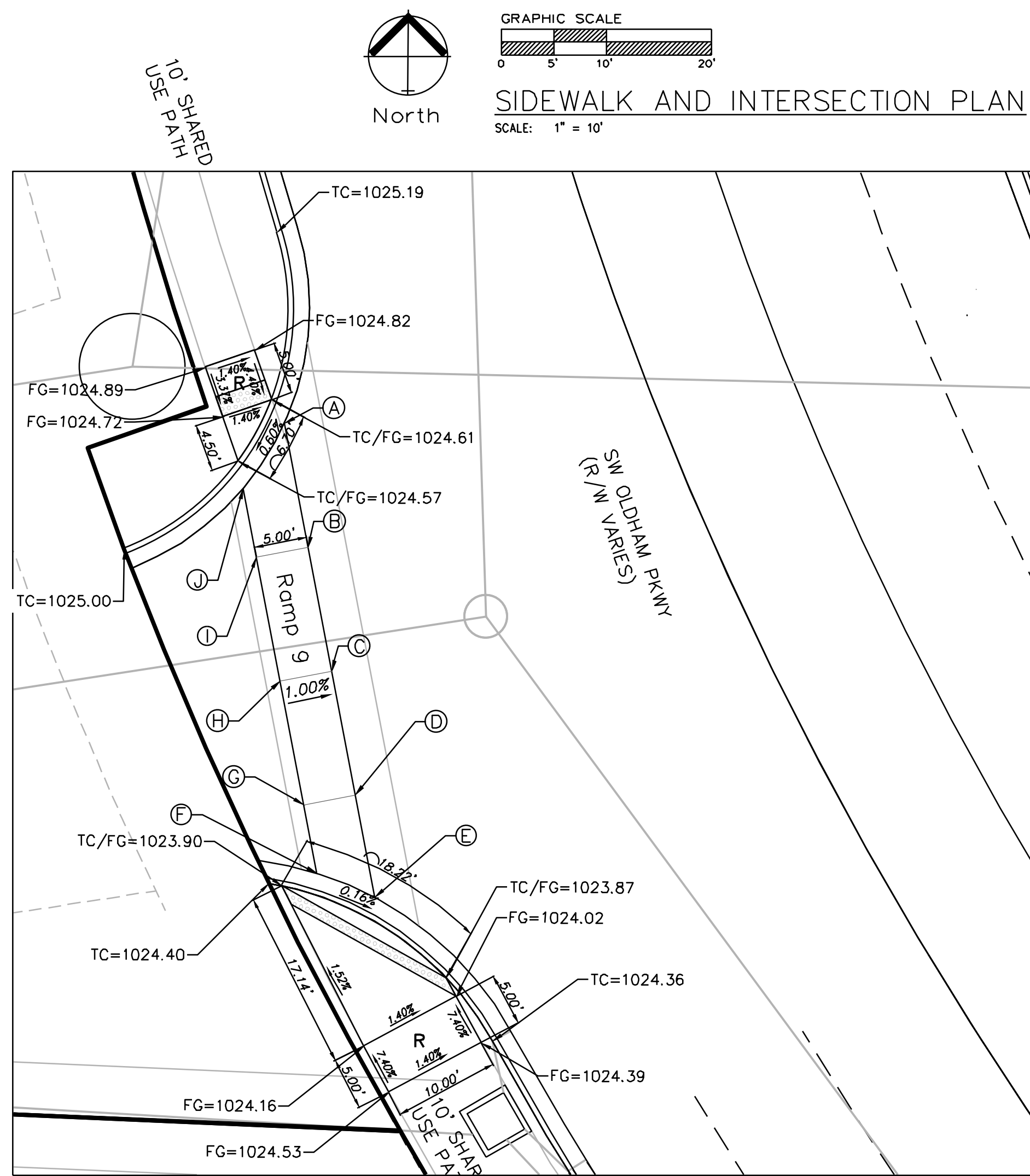
Project
MARKETPLACE
LSMO
Issue Date
November 6, 2024

Sidewalk and Intersection Plan
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

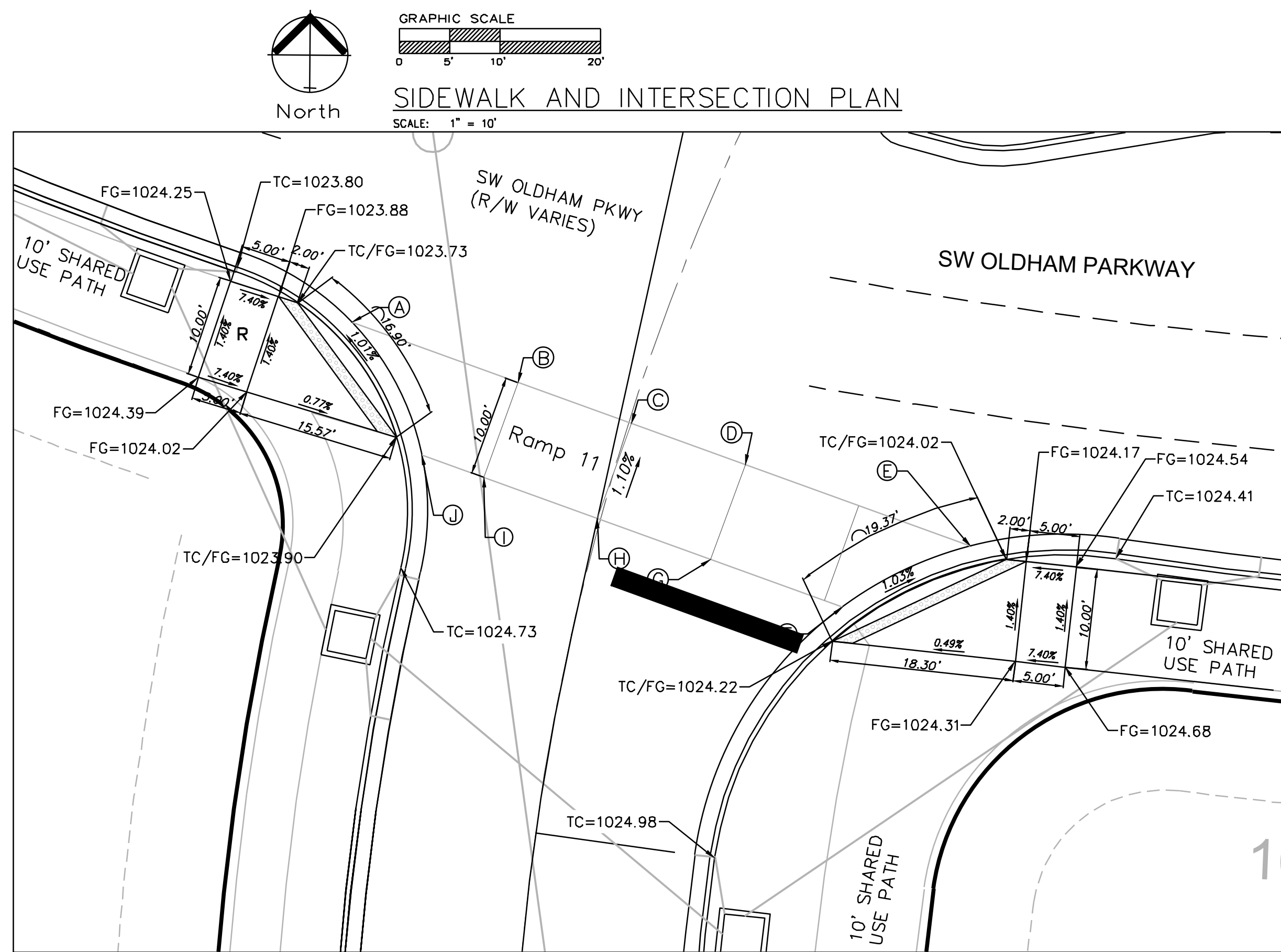


Matthew J. Schlicht
MO PE 000019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025



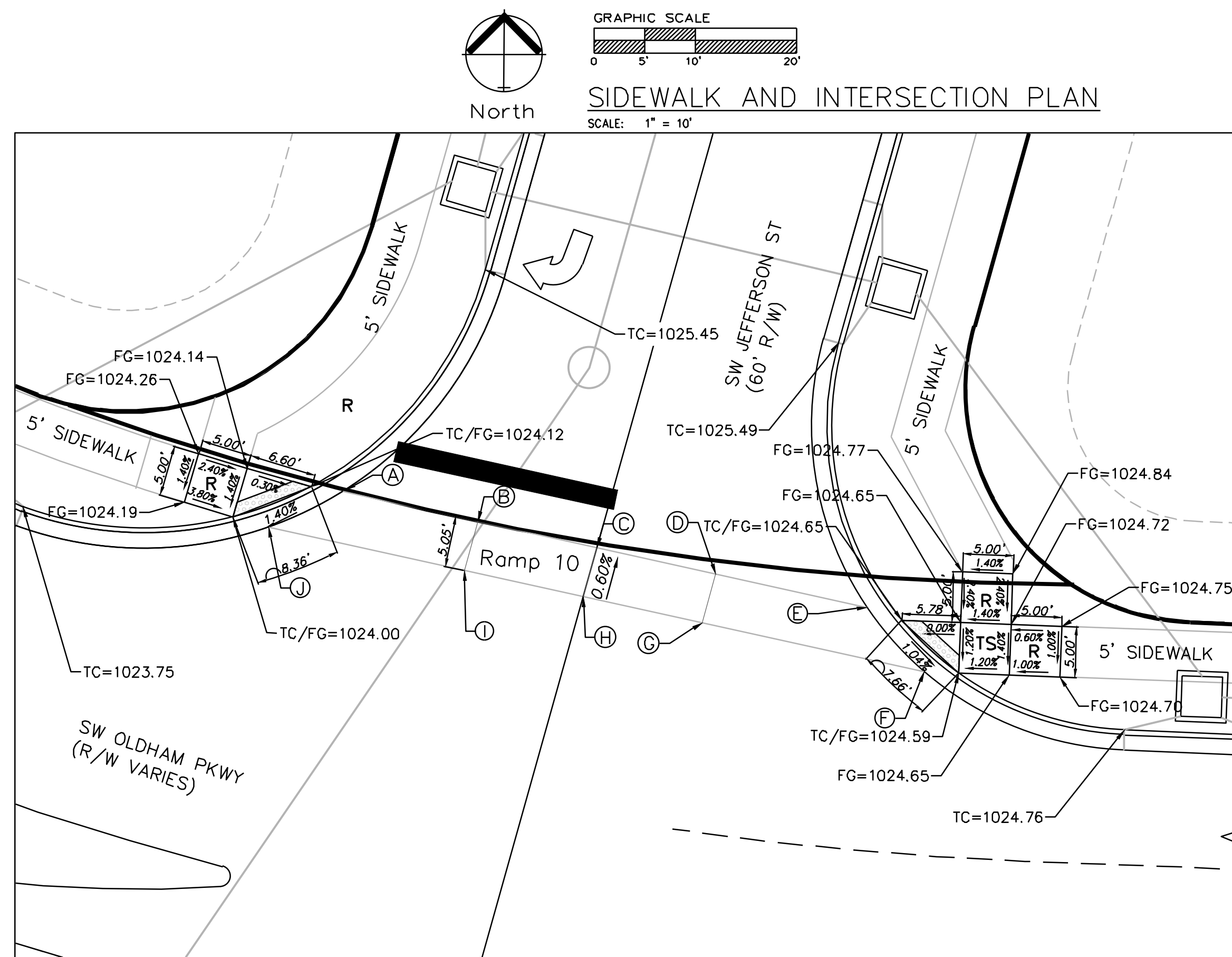
DETAIL 5



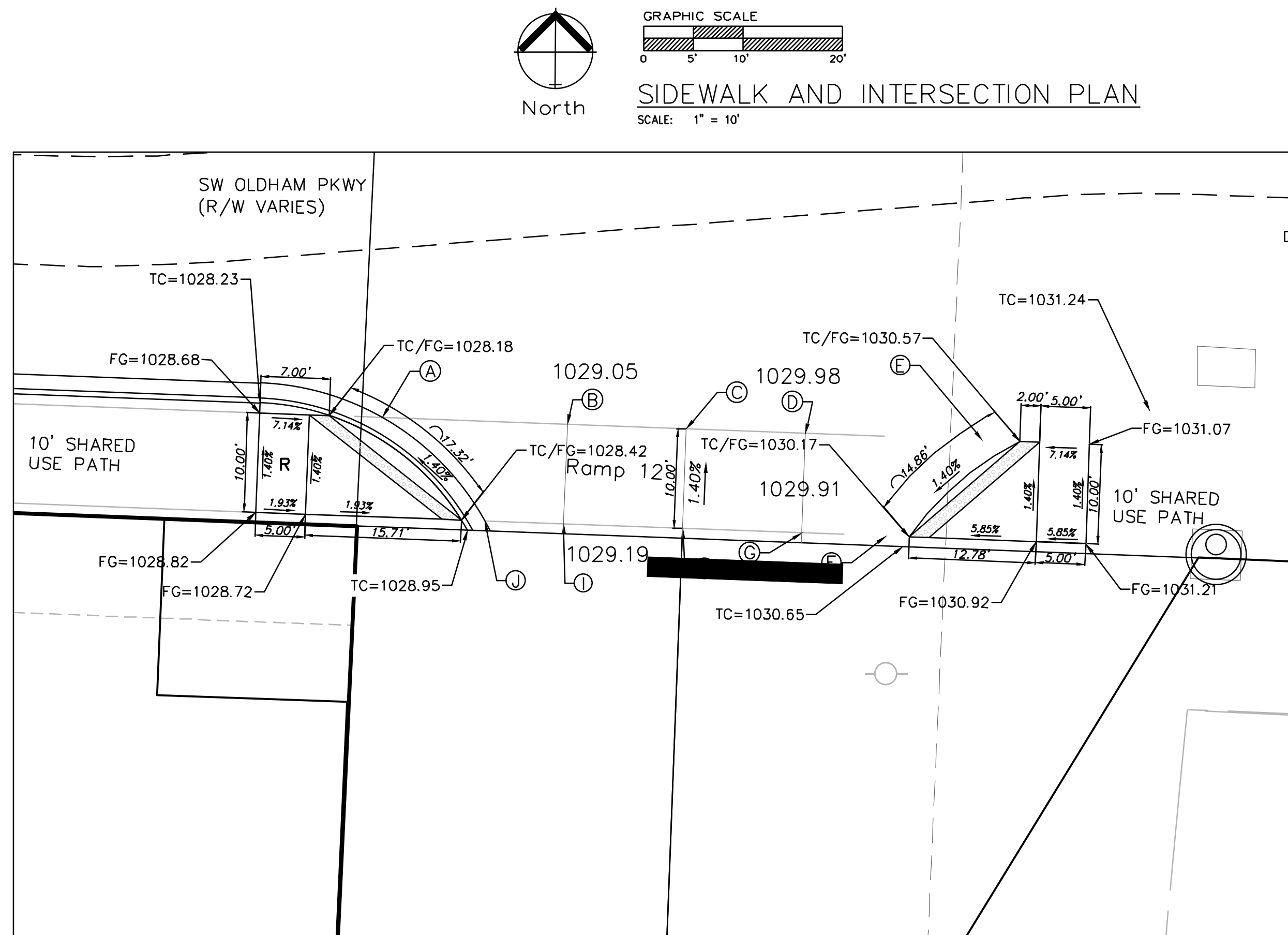
DETAIL 7

Legend:
 EX TC = Existing Top of Curb
 EX FG = Existing Finished Grade
 FG = Finished Grade
 TC = Top of Curb
 TC/FG = Top of Curb/Finished Grade
 [Pattern] Detectable Warning

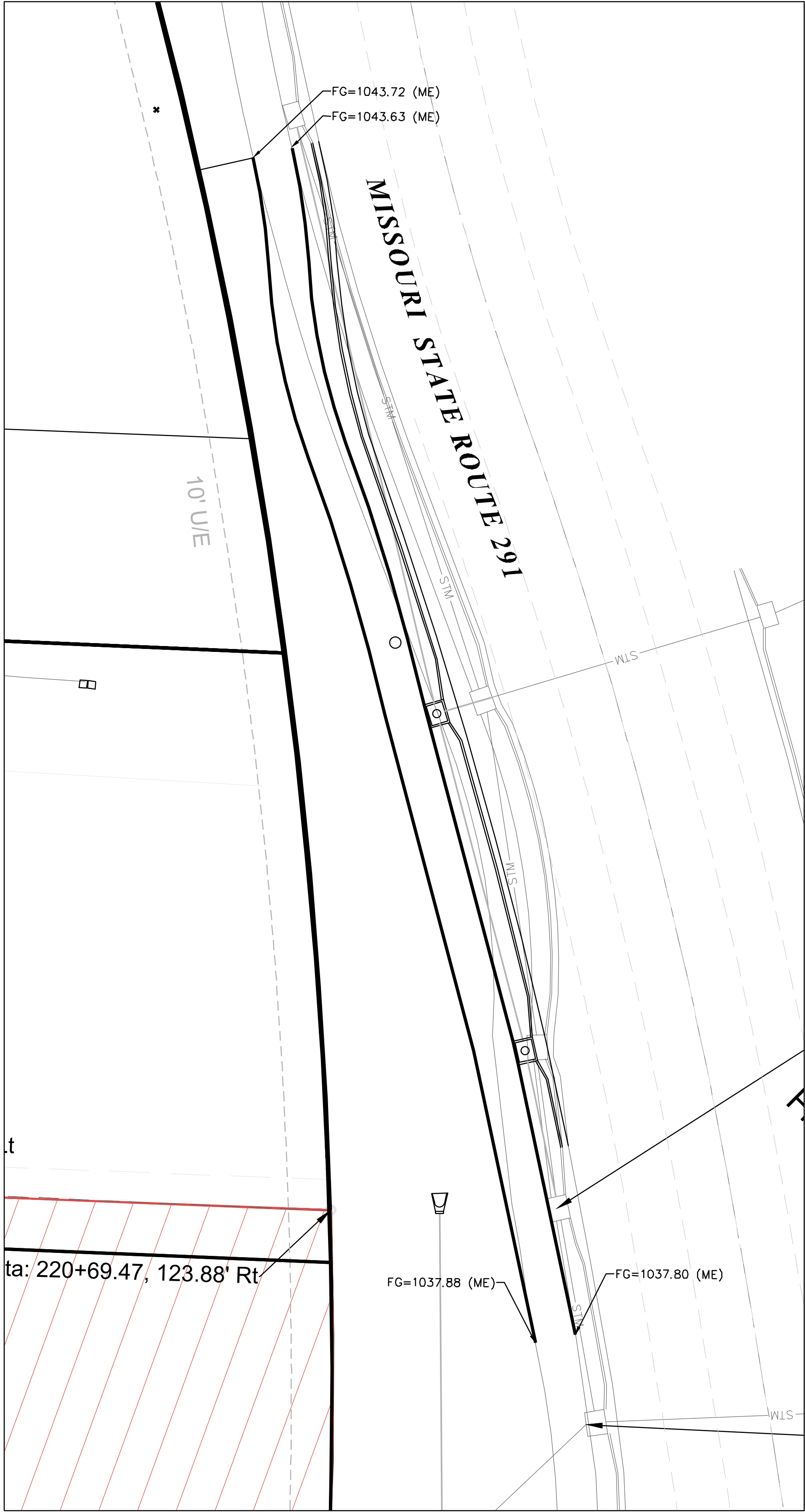
SPOT ELEVATION TABLE				
Spot	Ramp 9 Elevation	Ramp 10 Elevation	Ramp 11 Elevation	Ramp 12 Elevation
A	1024.61	1024.12	1023.73	1028.18
B	1024.62	1024.57	1024.14	1029.05
C	1024.64	1024.94	1024.42	1029.58
D	1024.23	1024.83	1024.29	1029.98
E	1023.89	1024.65	1024.02	1030.57
F	1023.90	1024.59	1024.22	1030.17
G	1024.18	1024.77	1024.39	1029.91
H	1024.69	1024.85	1024.53	1029.65
I	1024.61	1024.54	1024.12	1029.19
J	1024.57	1024.00	1023.90	1028.95



DETAIL 6



DETAIL 8

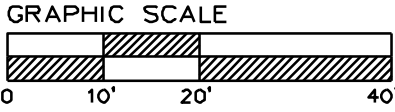


DETAIL 9

Legend:

- EX TC = Existing Top of Curb
EX FG = Existing Finished Grade
FG = Finished Grade
TC = Top of Curb
TC/FG = Top of Curb/Finished Grade
ME = Match Existing

 Detectable Warning



SIDEWALK AND INTERSECTION PLAN
SCALE: 1" = 20'

Project: MM
MARKETPLACE,
LSMO
Issue Date:
November 5, 2024

Sidewalk and Intersection Plan
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



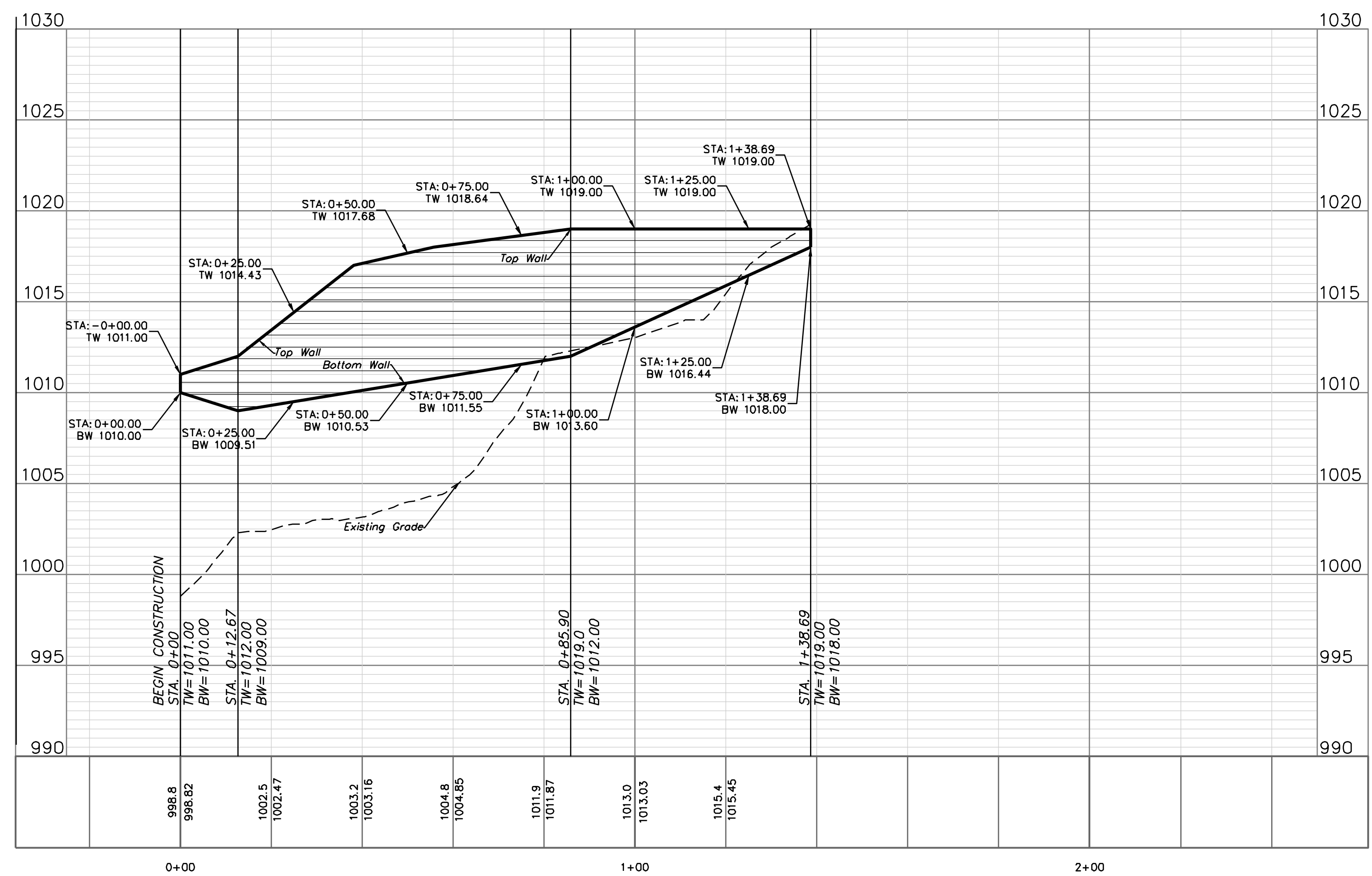
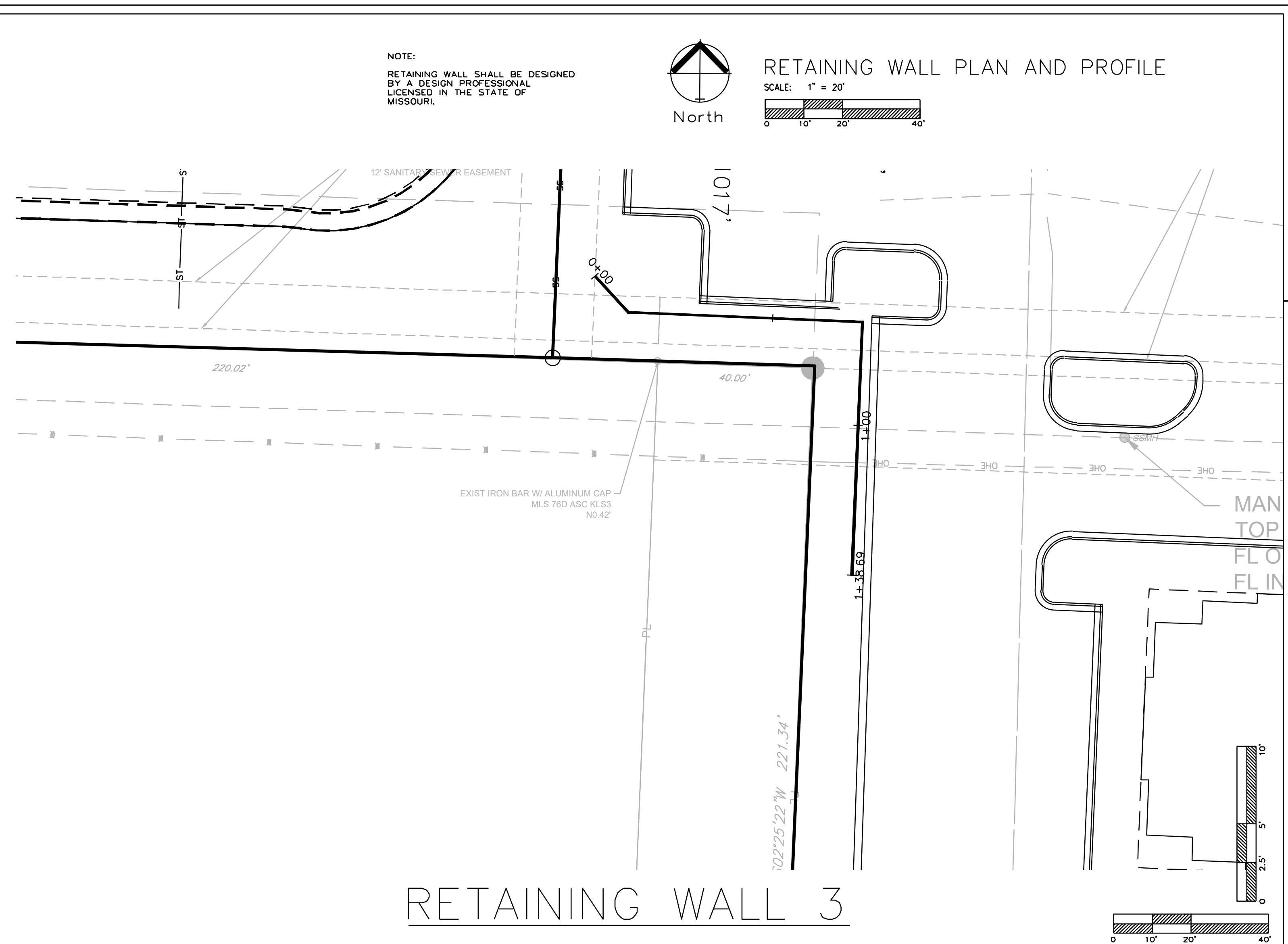
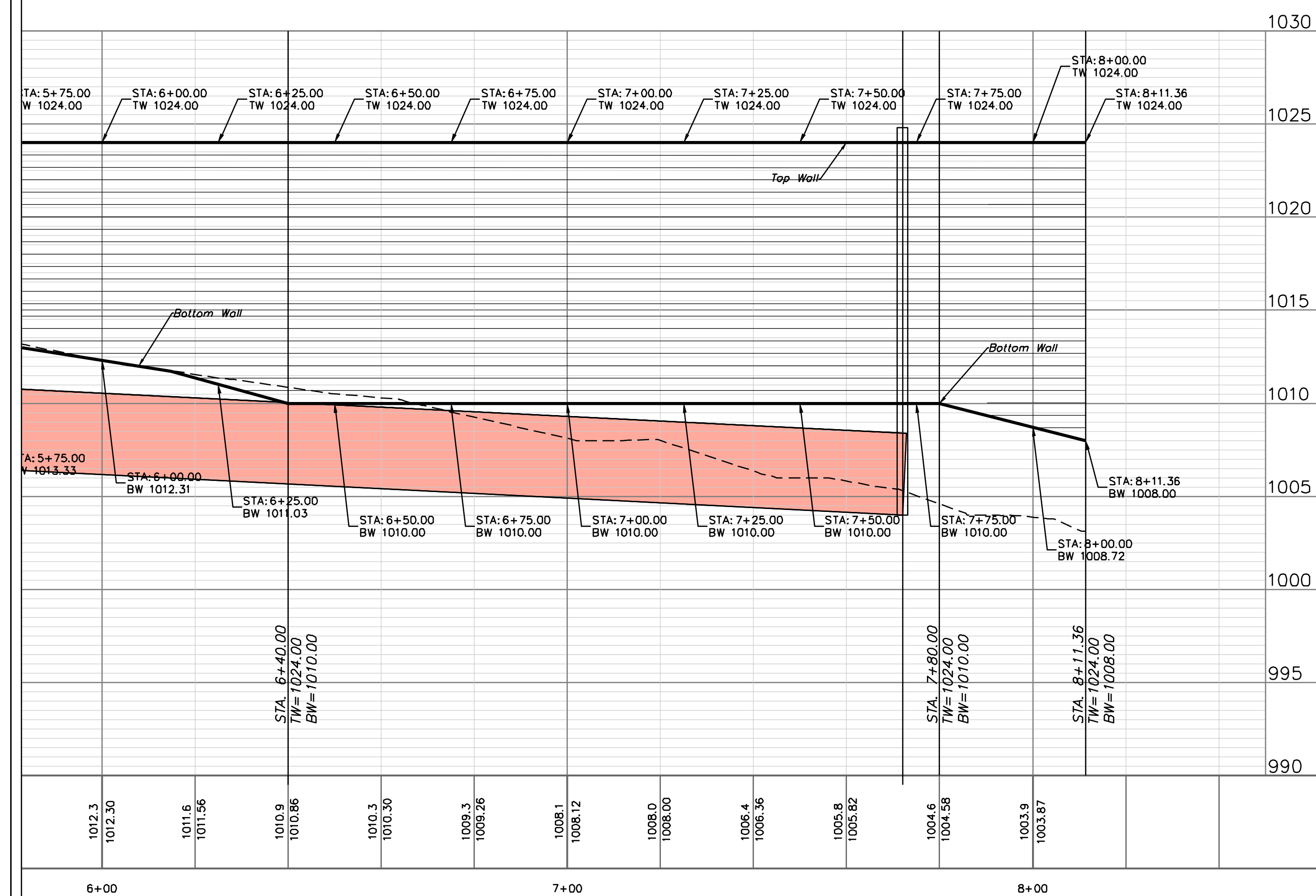
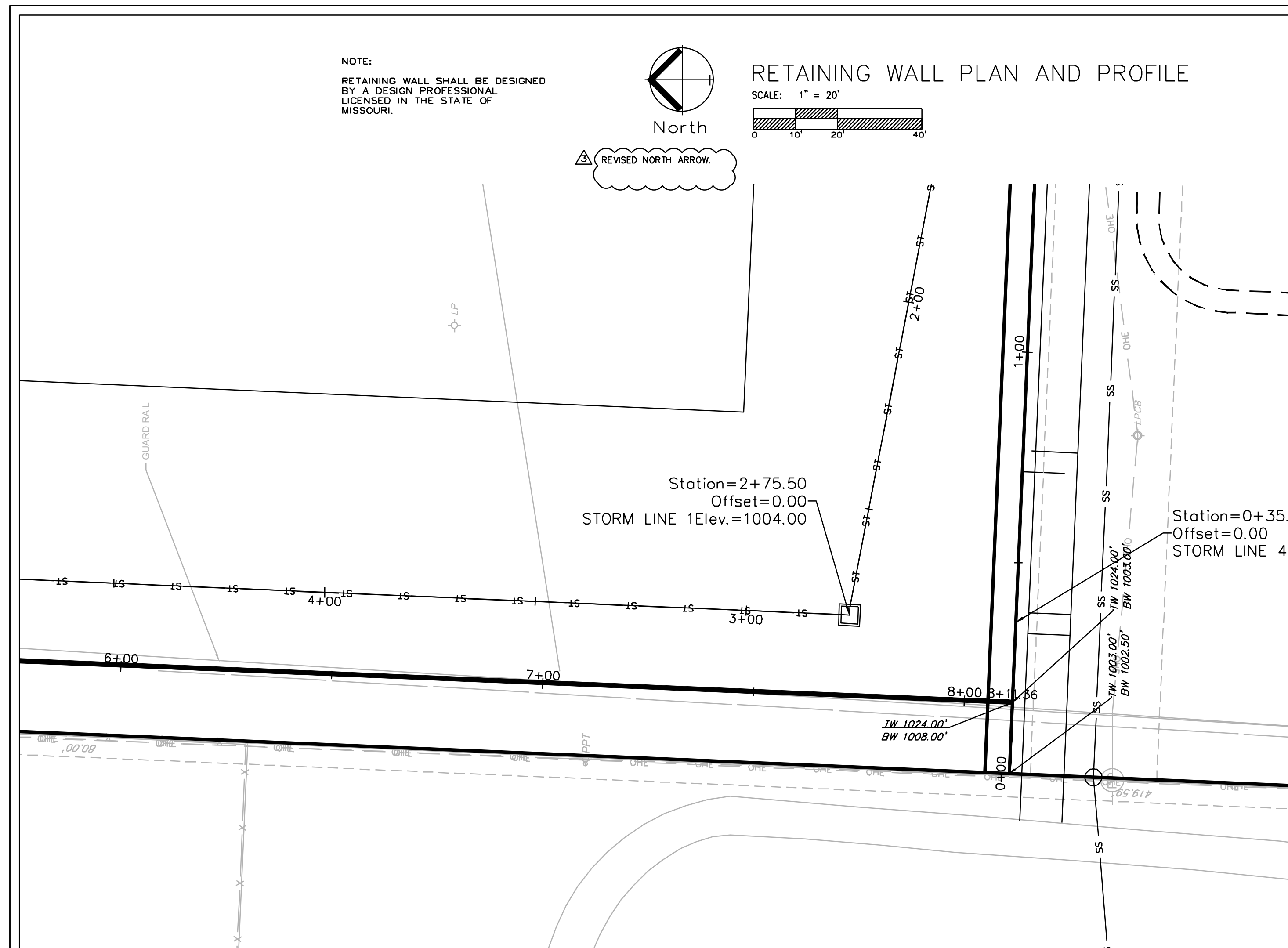
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS	
△	REV. 12/10/2024
△	REV. 1/2/2025
△	REV. 2/6/2025
△	REV. 3/5/2025
△	REV. 3/24/2025
△	REV. 4/15/2025
△	REV. 10/16/2025

Oldham Village
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

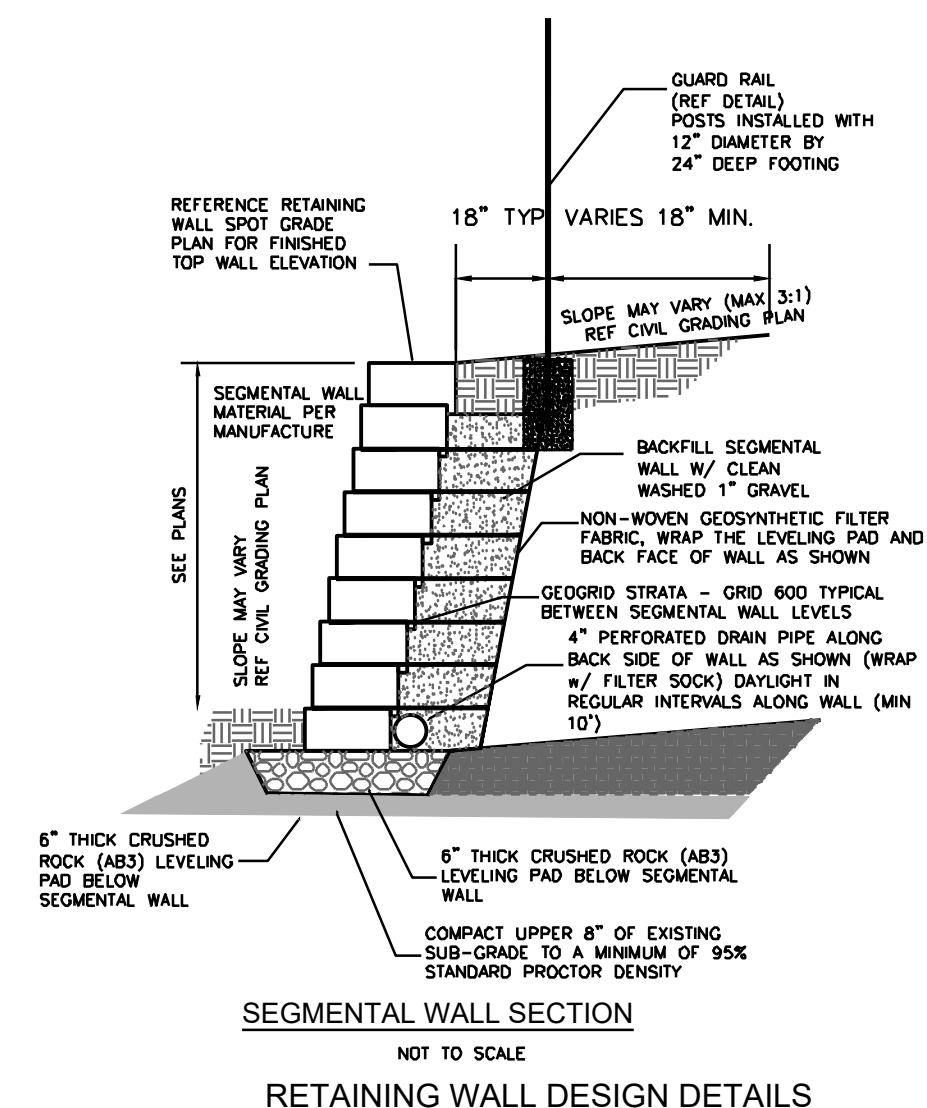
ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849



North

SCALE: 1" = 20'

0 10' 20' 40'



PLAN VIEW

4' EXTENSION

PER DETAIL

TOP OF SEGMENTAL RETAINING WALL

ADDED 4' GUARD RAIL FENCE @ 90° FROM MAIN FENCE LINE

1.5" GALV. SQ. T.S. GUARDRAIL W/ 1.5" T.S. HORIZONTALS @ 19" O.C. MAX. TYP.

PROFILE VIEW

4' TYP.

9" MAX.

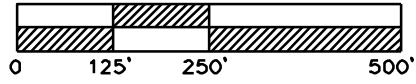
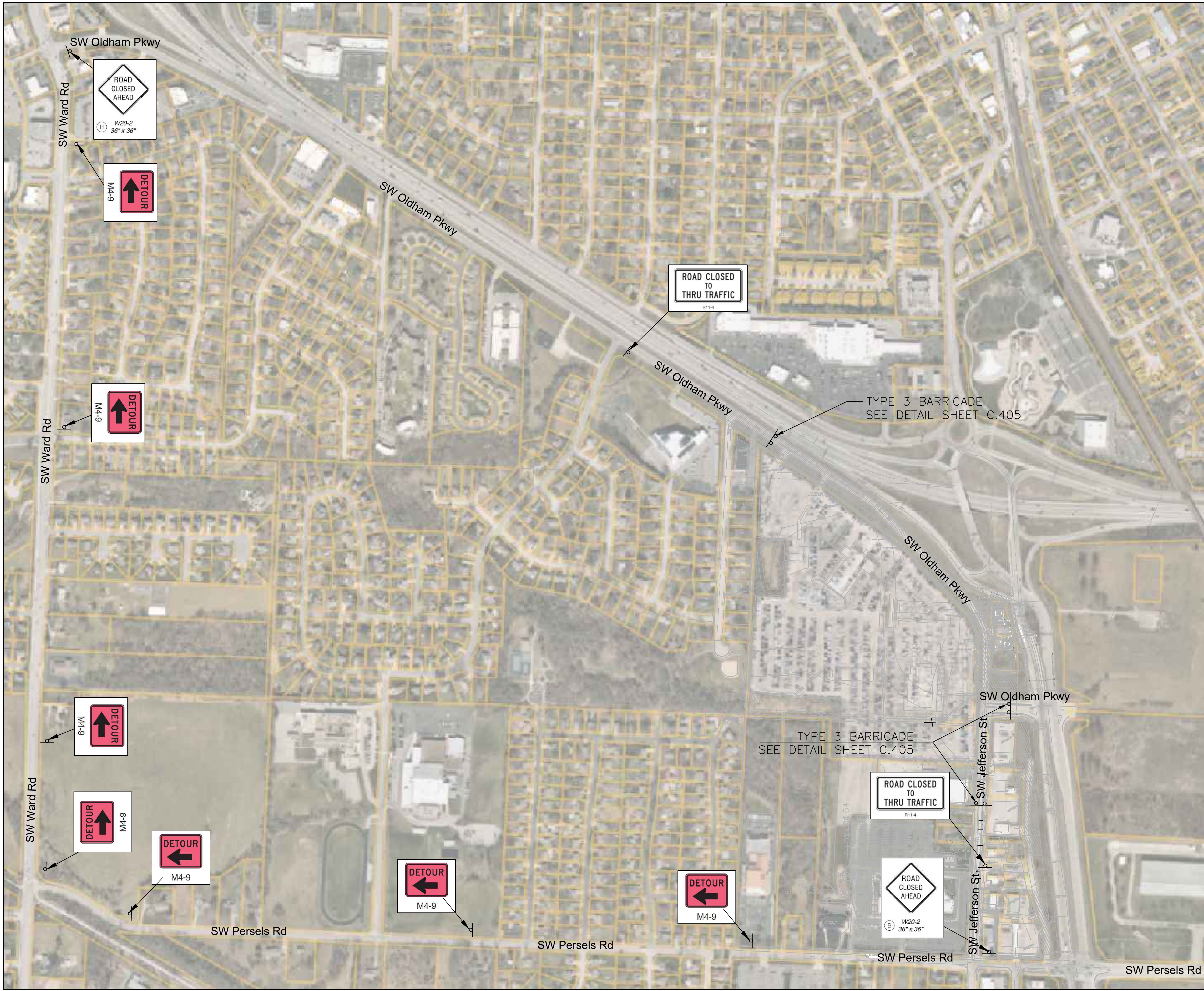
T.O. GUARD RAIL
+3'-6"

T.O. CONC.
+0'-0"

FACE OF SEGMENTAL RETAINING WALL



C.222



TRAFFIC CONTROL PLAN
GENERAL LAYOUT

SCALE: 1" = 250'

NOTES:

1. ALL SIGNS TO BE PLACED PER MUTCD MANUAL.
2. THE ROAD SHALL BE CLOSED AND WORK ONLY BE ALLOWED BETWEEN 9:00 A.M. AND 4:00 P.M., MONDAY THROUGH FRIDAY.
3. THE STREET TO BE PLATED DURING NON-WORKING HOURS AND THE ROAD REOPENED FOR NORMAL TRAFFIC.
4. GIVEN THE DEPTH OF THE TRENCH, THE CONTRACTOR MAY DECIDE TO DO A COMPACTED BACKFILL, COMPACTION TESTING AND REPORTS WILL BE REQUIRED.
5. A RIGHT-OF-WAY AND TRAFFIC CONTROL PERMIT APPLICATION WILL NEED TO BE COMPLETED PRIOR TO COMMENCEMENT OF THE WORK.
6. A PRE-CONSTRUCTION MEETING IS REQUIRED BETWEEN THE CONTRACTOR AND THE CITY'S FIELD ENGINEERING INSPECTOR PRIOR TO COMMENCEMENT OF ANY WORK.
7. CONTRACTOR TO NOTIFY CITY 14 CALENDAR DAYS BEFORE CLOSURE.

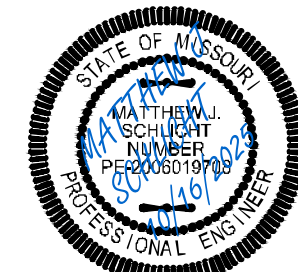


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

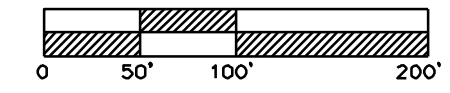
Project:
MARKETPLACE,
LSMO
Issue Date:
November 5, 2024

TRAFFIC CONTROL PLAN GENERAL LAYOUT
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



TRAFFIC CONTROL PLAN
SCALE: 1" = 100'

NOTES:

1. ALL SIGNS TO BE PLACED PER MUTCD MANUAL.
2. THE ROAD SHALL BE CLOSED AND WORK ONLY BE ALLOWED BETWEEN 9:00 A.M. AND 4:00 P.M., MONDAY THROUGH FRIDAY.
3. THE STREET TO BE PLATED DURING NON-WORKING HOURS AND THE ROAD REOPENED FOR NORMAL TRAFFIC.
4. GIVEN THE DEPTH OF THE TRENCH, THE CONTRACTOR MAY DECIDE TO DO A COMPACTED BACKFILL, COMPACTION TESTING AND REPORTS WILL BE REQUIRED.
5. A RIGHT-OF-WAY AND TRAFFIC CONTROL PERMIT APPLICATION WILL NEED TO BE COMPLETED PRIOR TO COMMENCEMENT OF THE WORK.
6. A PRE-CONSTRUCTION MEETING IS REQUIRED BETWEEN THE CONTRACTOR AND THE CITY'S FIELD ENGINEERING INSPECTOR PRIOR TO COMMENCEMENT OF ANY WORK.

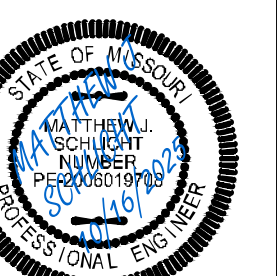
ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

Professional Registration
Missouri
Engineering 20050202186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project: OLDHAM MARKETPLACE, LS MO
Issue Date: November 6, 2024

TRAFFIC CONTROL PLAN
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

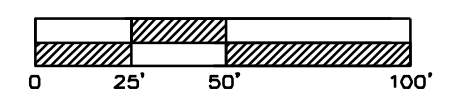
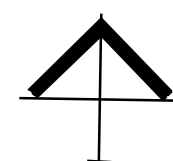
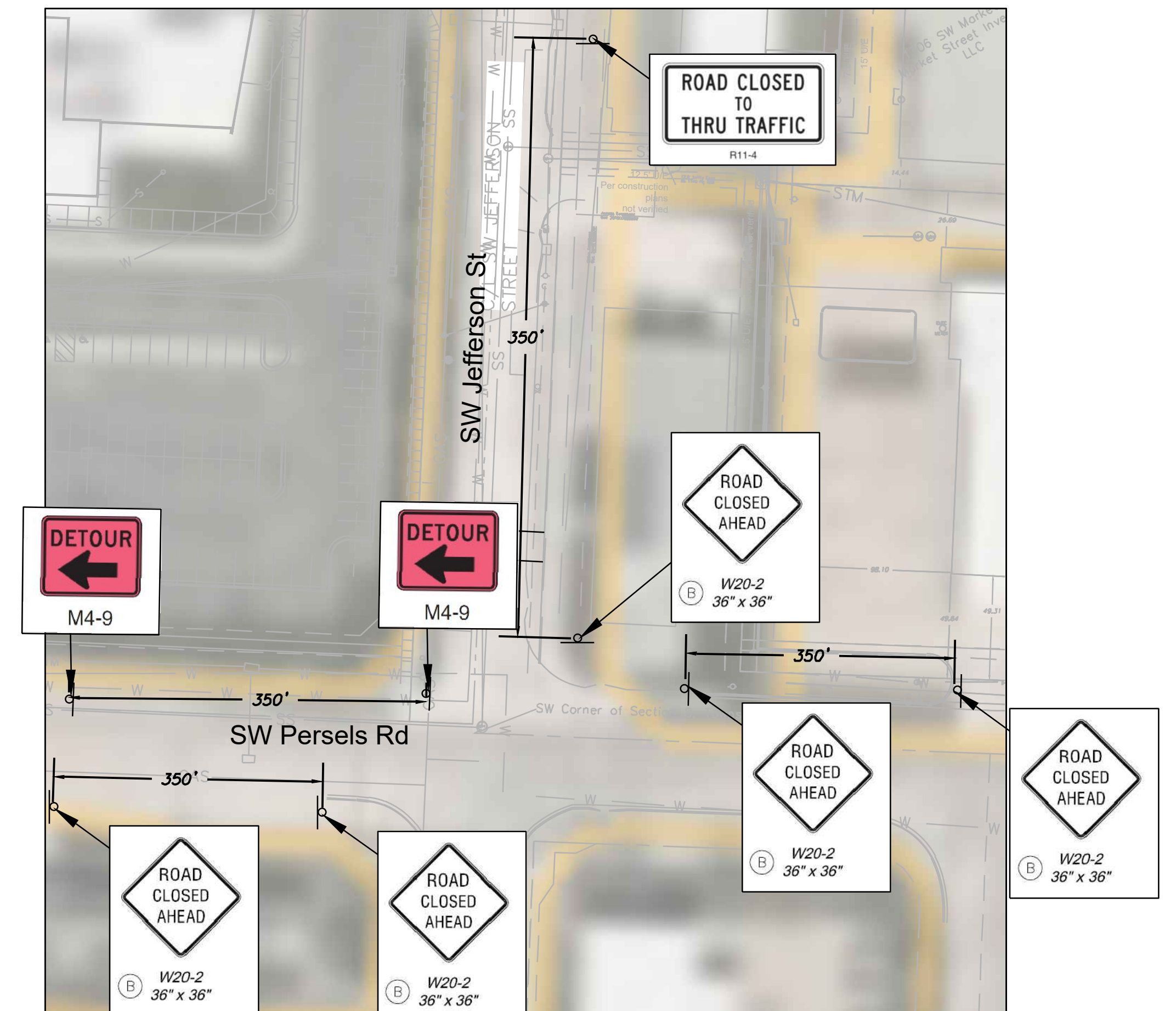
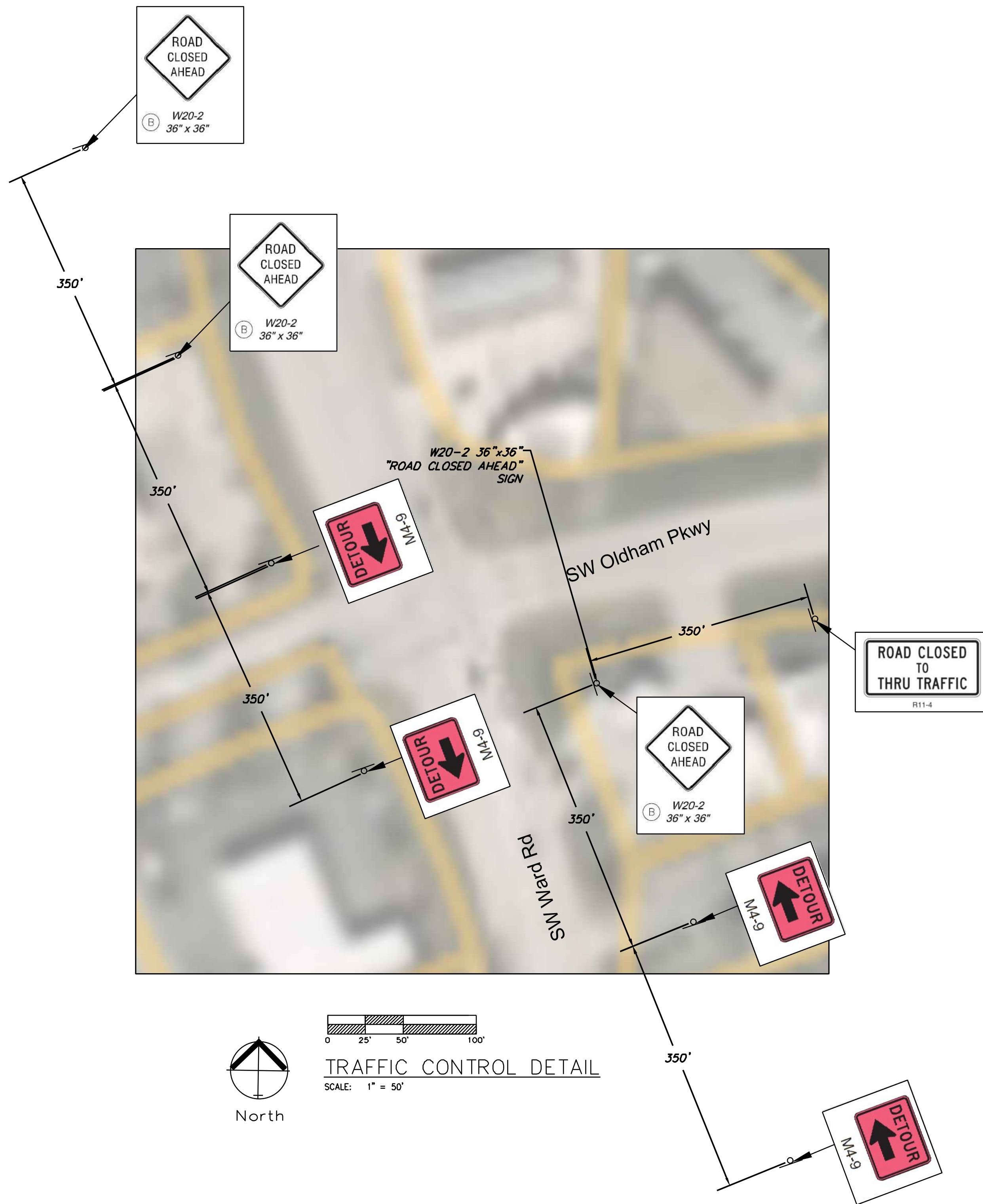


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

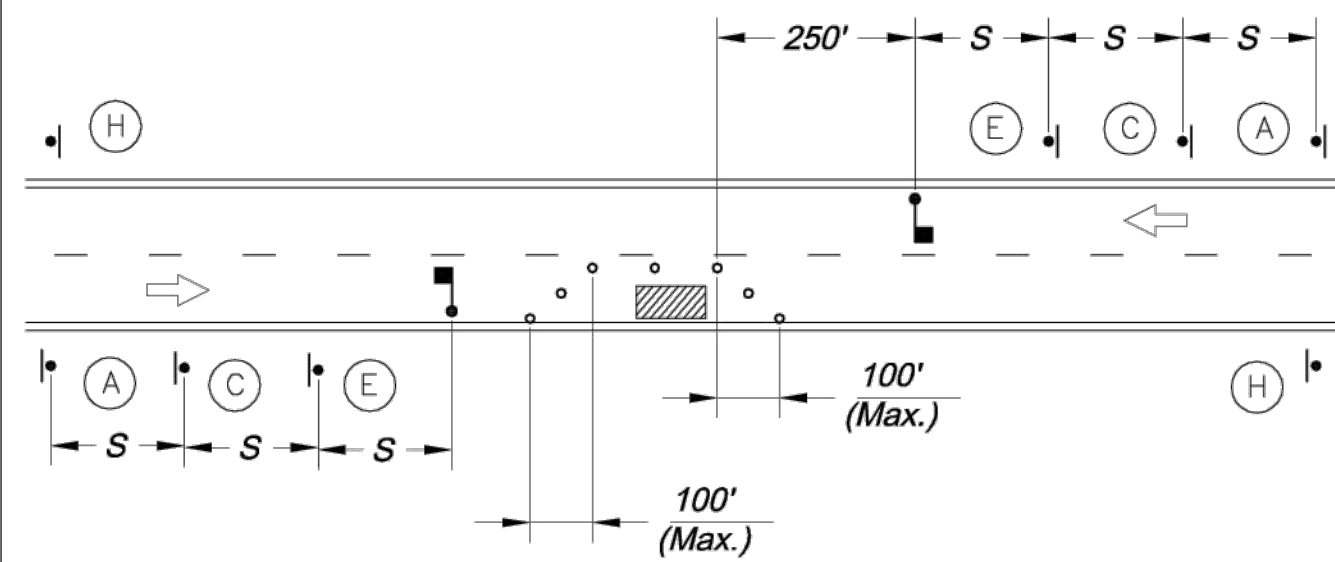
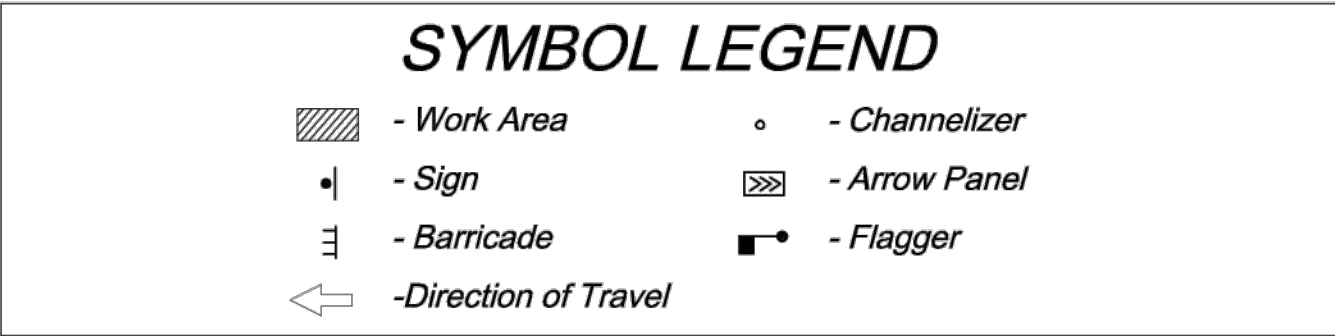
REVISIONS

- | |
|-----------------|
| REV. 12/10/2024 |
| REV. 1/2/2025 |
| REV. 2/6/2025 |
| REV. 3/5/2025 |
| REV. 3/24/2025 |
| REV. 4/15/2025 |
| REV. 10/16/2025 |

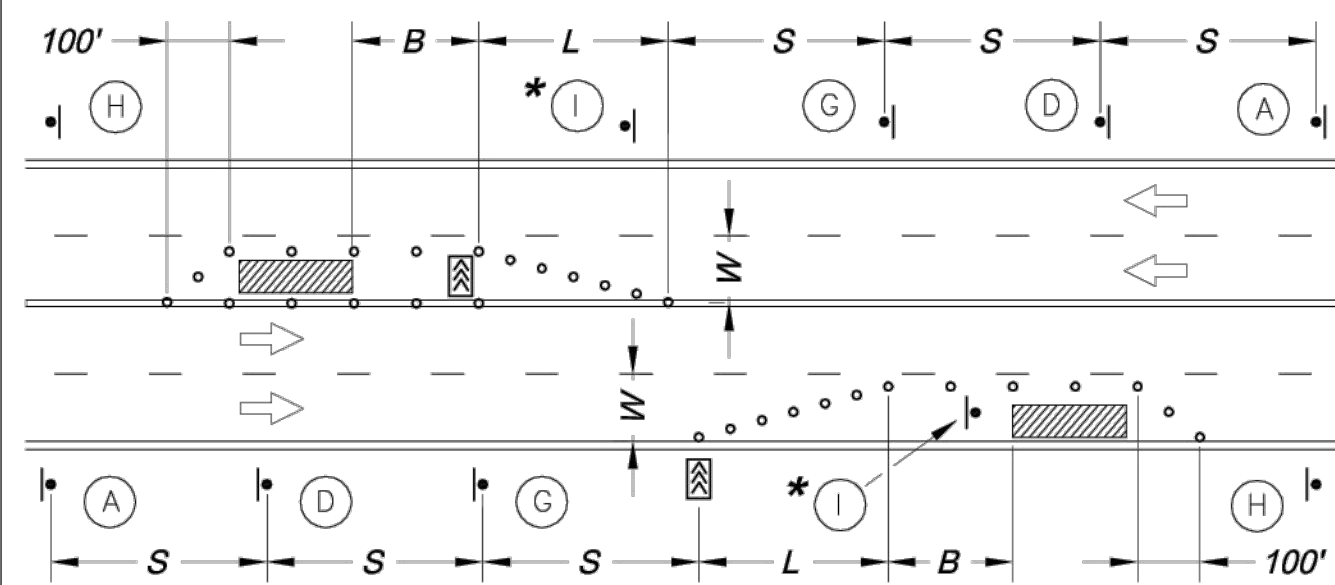
C.251



TRAFFIC CONTROL DETAIL
SCALE: 1" = 50'

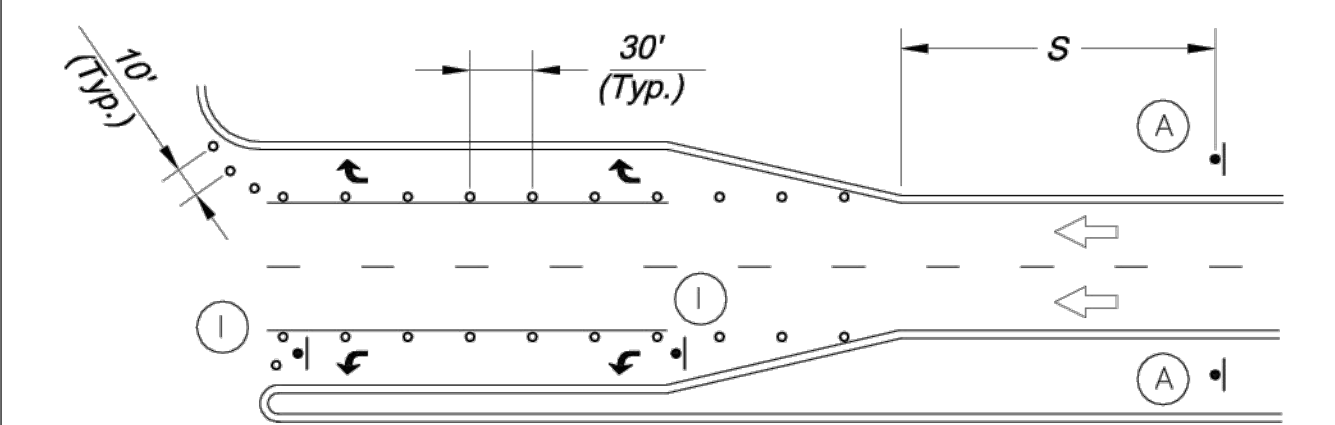


LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET

* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TURN LANE CLOSURE

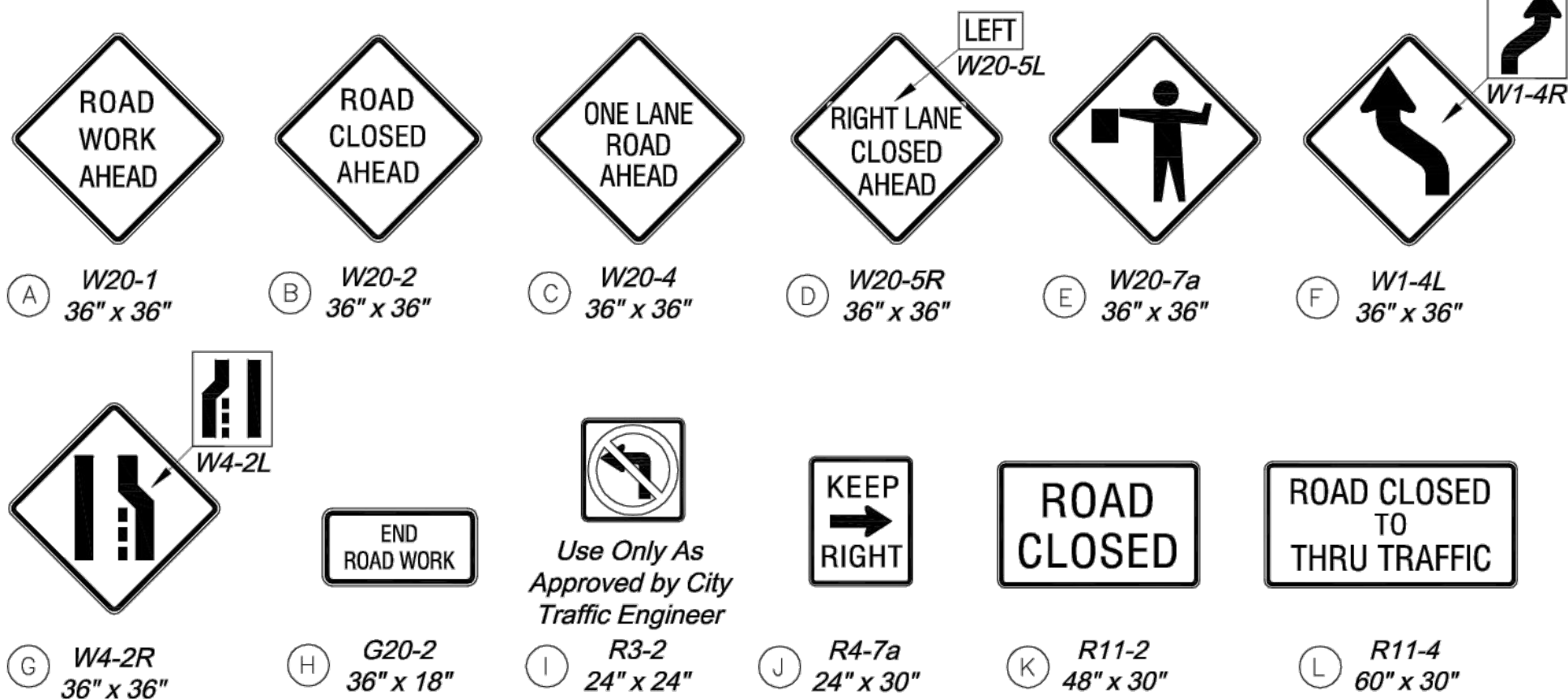
Sign Spacing "S"	
Speed Limit (mph)	Spacing (Feet)
25	100
30 - 35	250
≥ 40	350

Taper Dimensions (Feet)				
Speed Limit (mph)	Minimum Taper Length "L", per Lane Width "W"			Minimum Number of Channelizers
	10	11	12	
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13

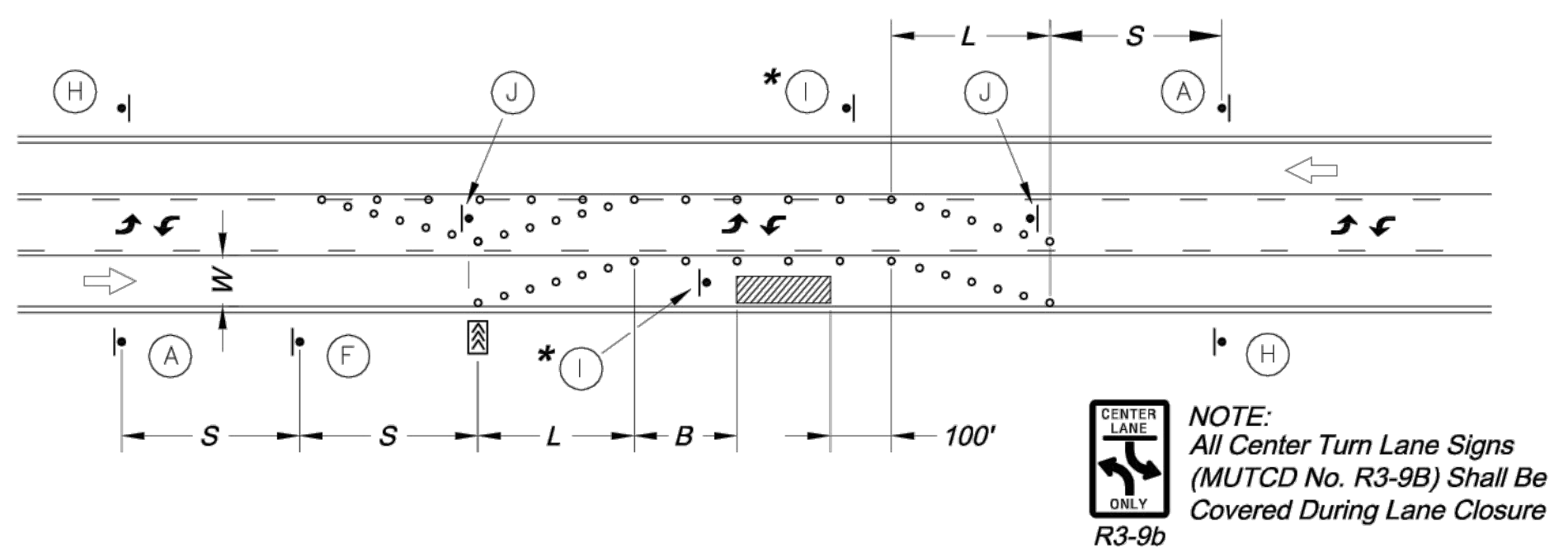
Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

Maximum Channelizer Spacing		
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

SIGN LEGEND

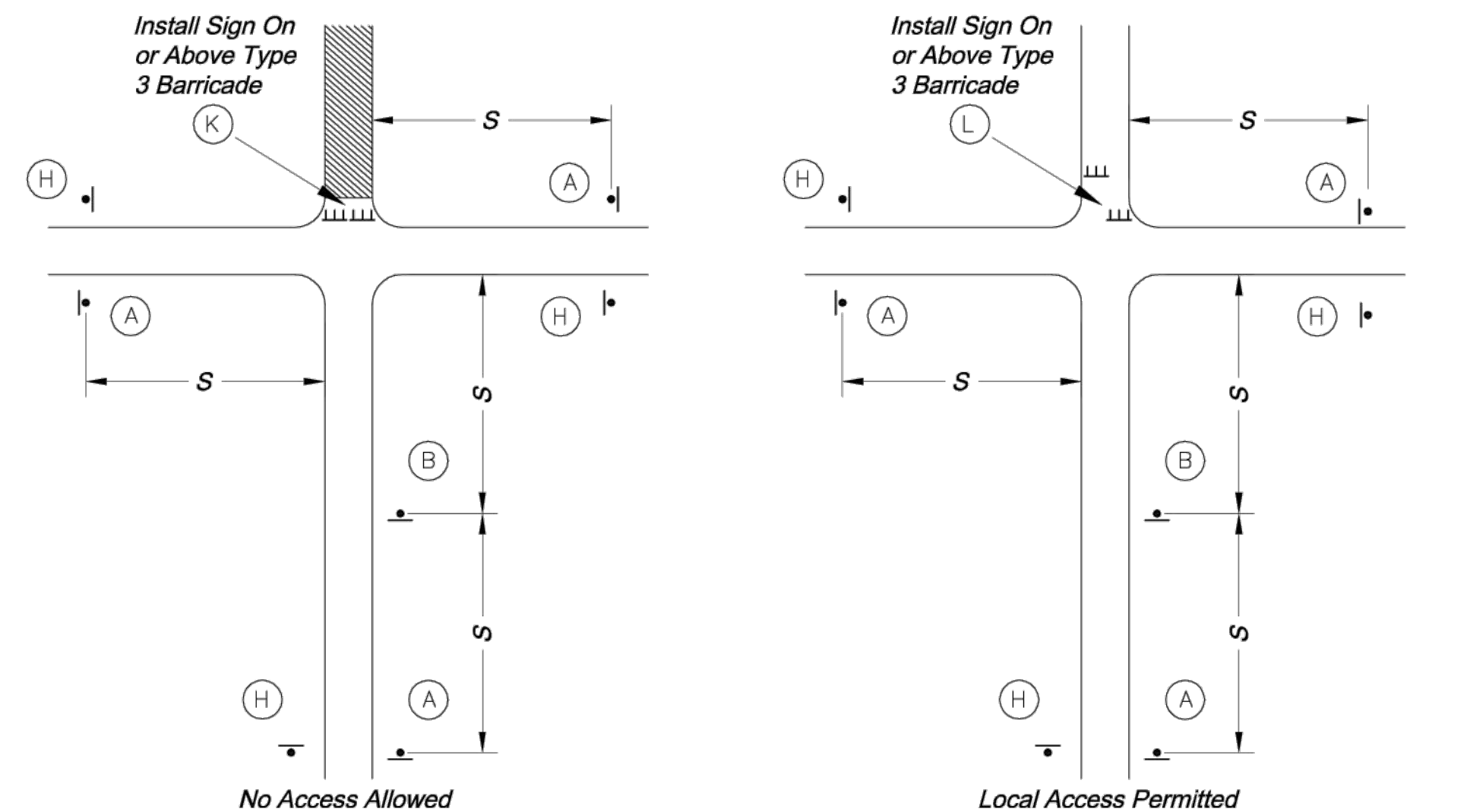


TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET

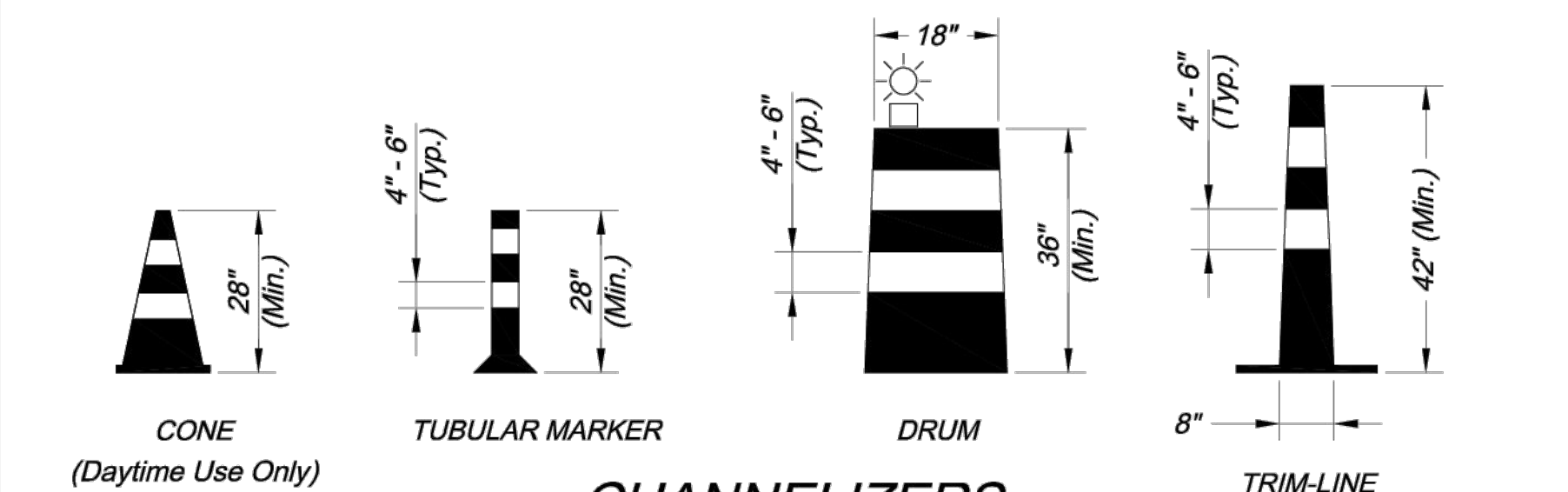
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TYPICAL STREET CLOSURE

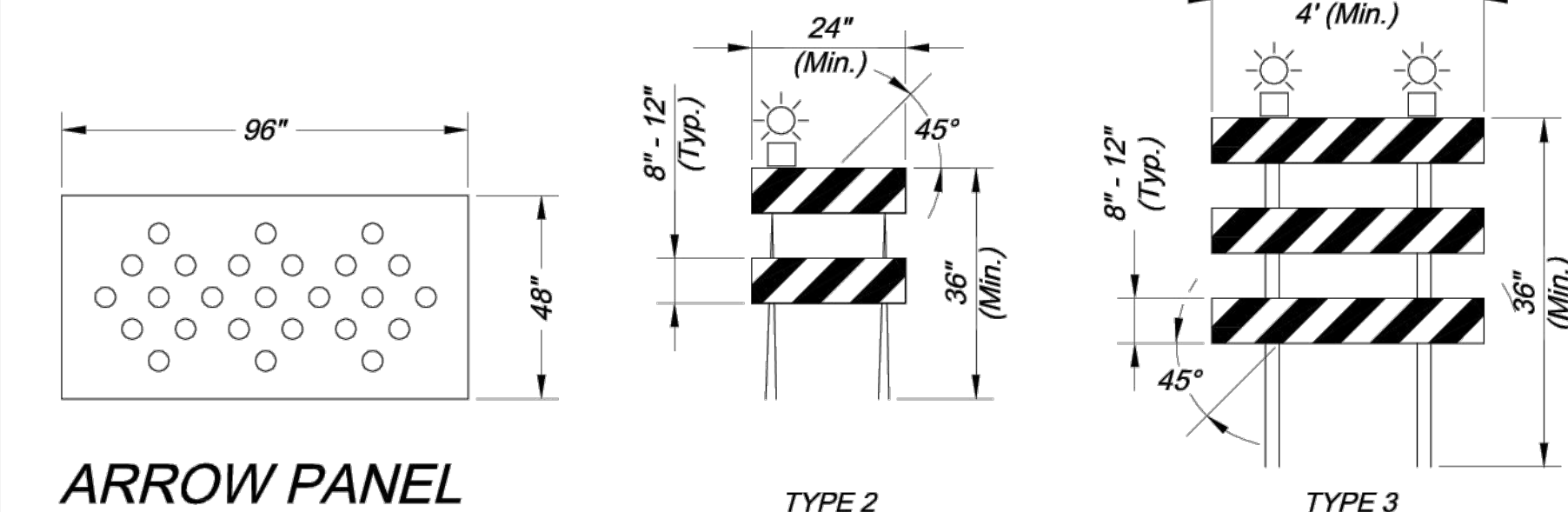
GENERAL NOTES:

- 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 closure.
- 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 behavior.
- Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
- 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 7 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.
- 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.
- 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 immediately.
- 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.
- 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.
- 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).
- 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.
- No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- 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.
- 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.
- 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:
 - Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate,
 - Stop the work until deficiencies are corrected,
 - Suspend all pay estimates until deficiencies are corrected, or
 - Place the Contractor in default.



CHANNELIZERS

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



ARROW PANEL

TYPE 2

BARRICADES

TYPE 3

Project:

TRAFFIC CONTROL DETAILS

STANDARD DRAWING TC-1

Drawn By: JJW

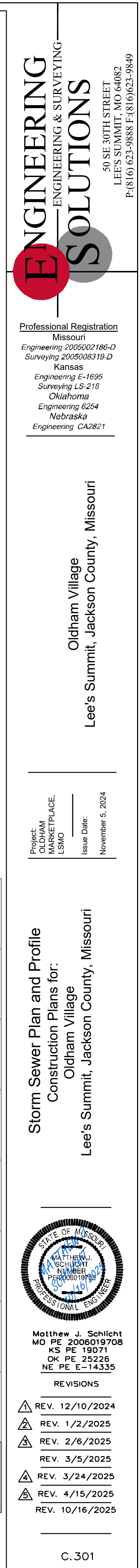
Checked By: MP

Date: 12-10-2008

Project No.: X

x OF x

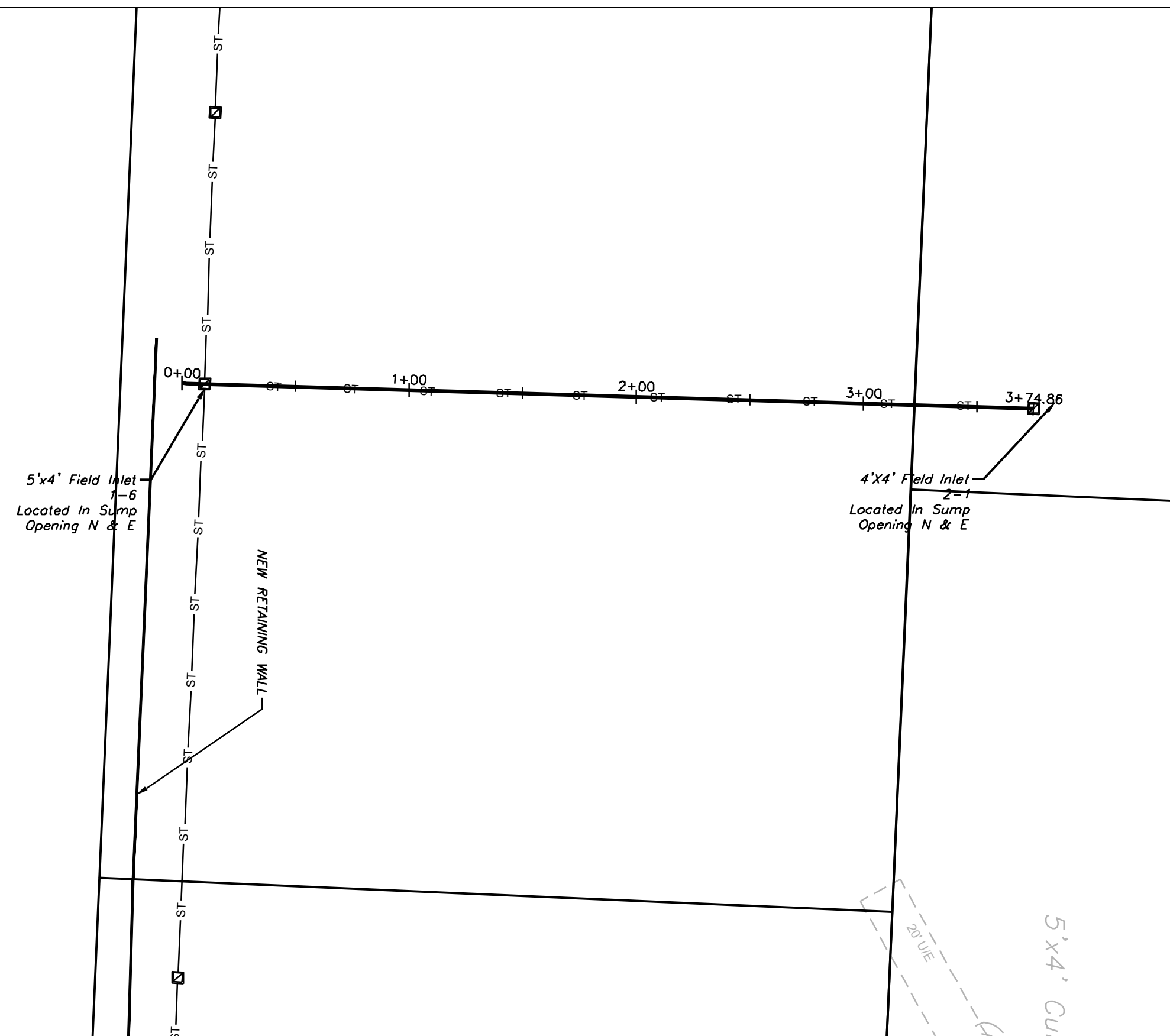
X



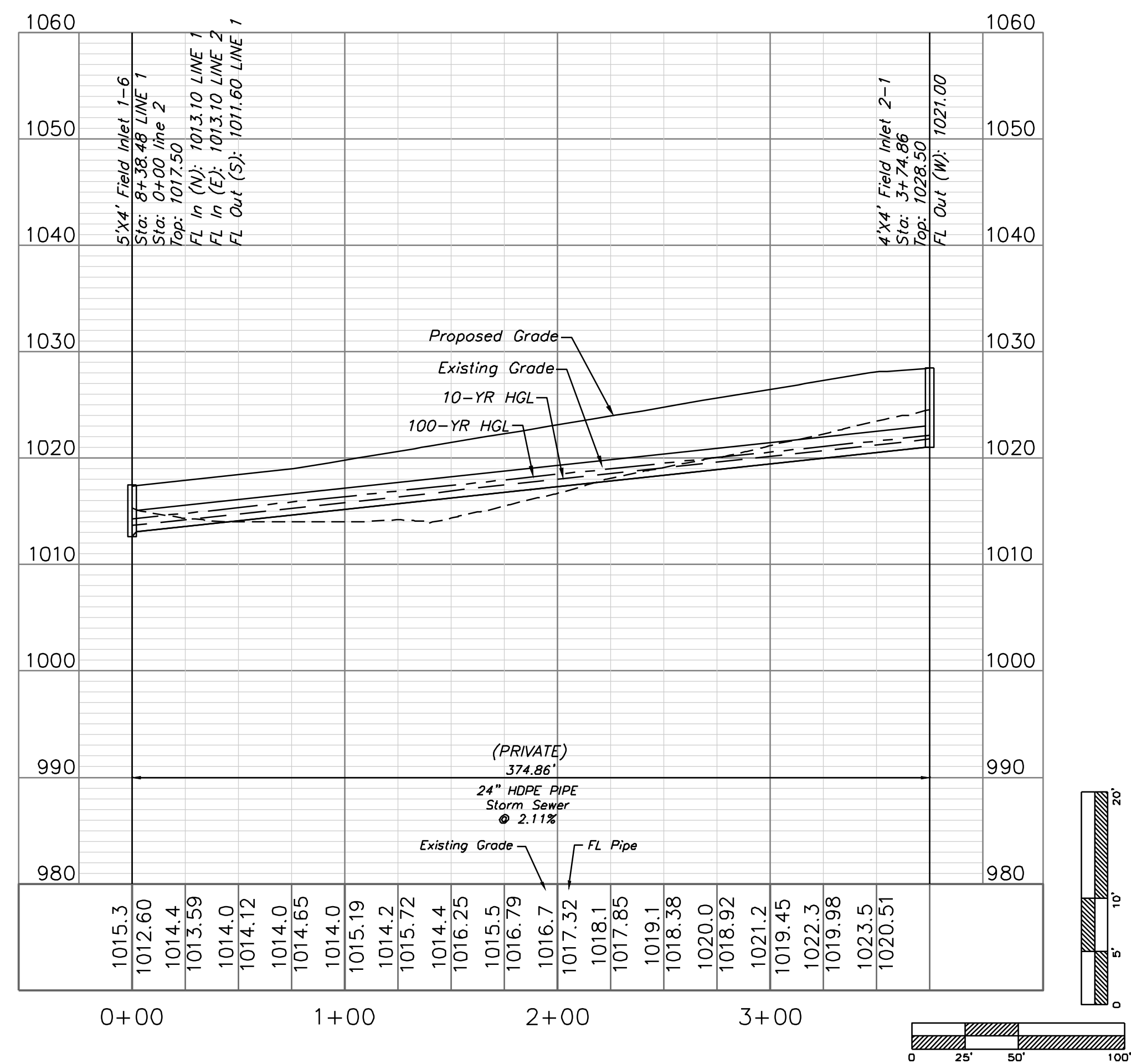


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'

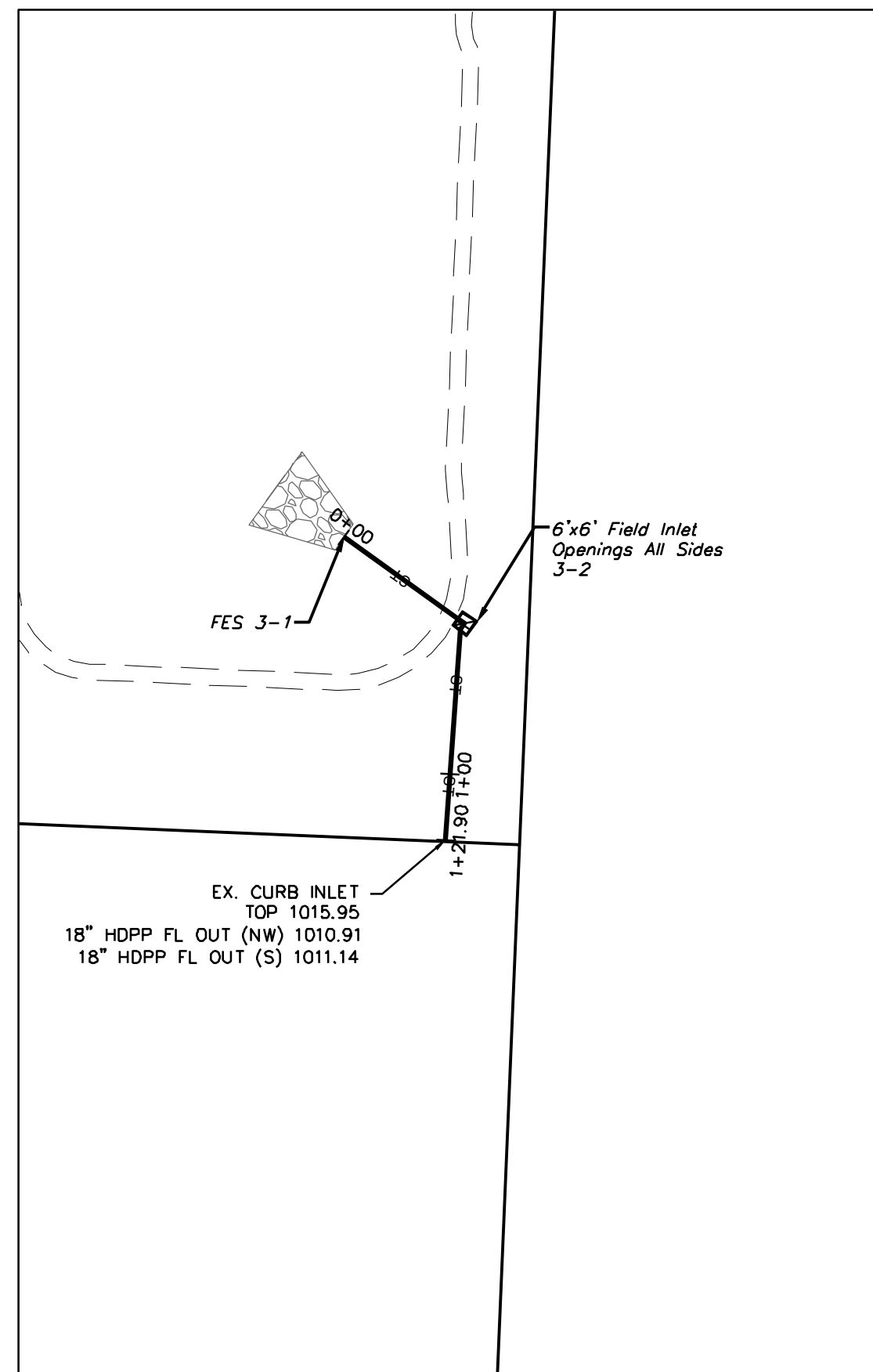


STORM LINE 2

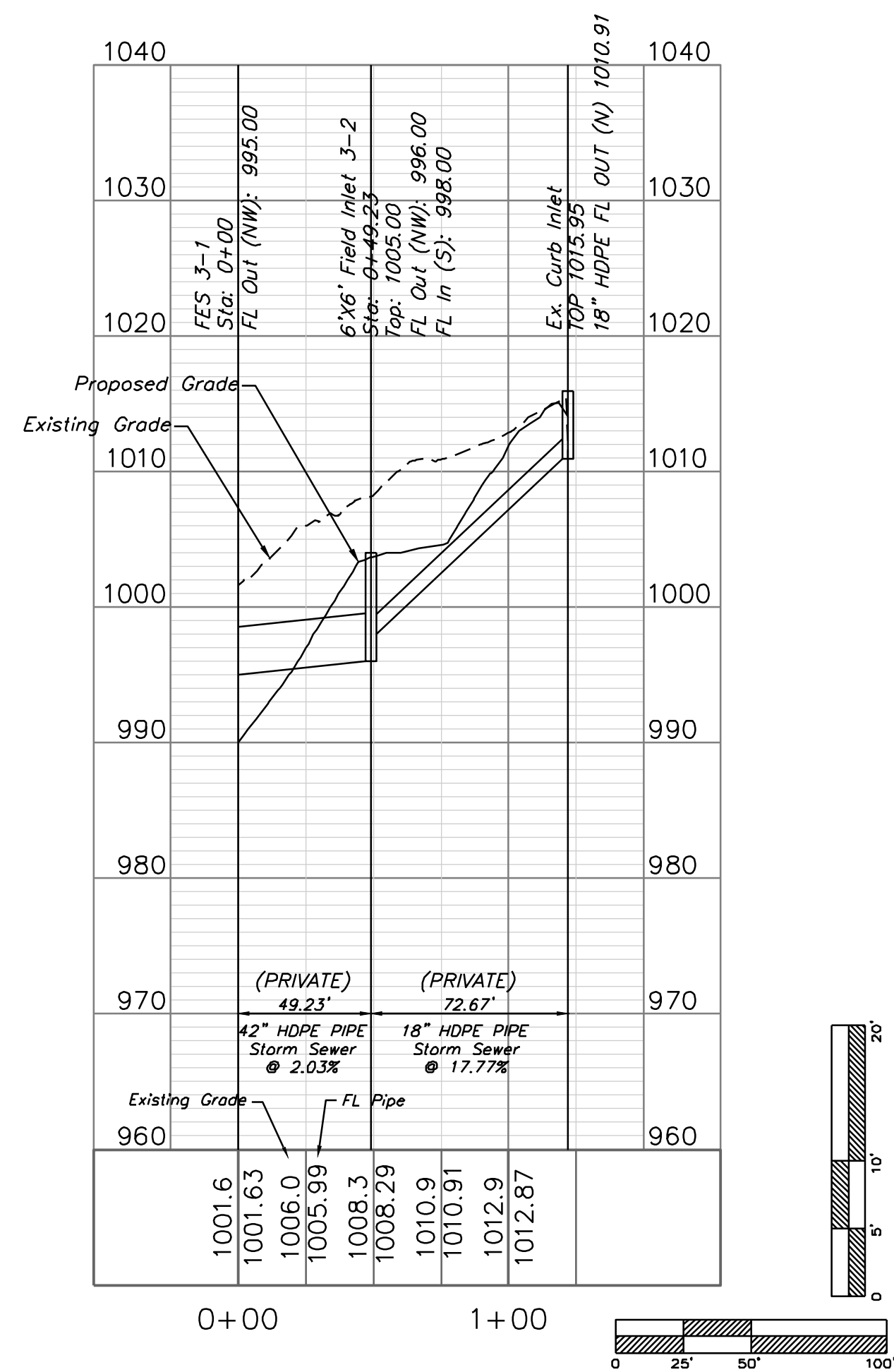


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'

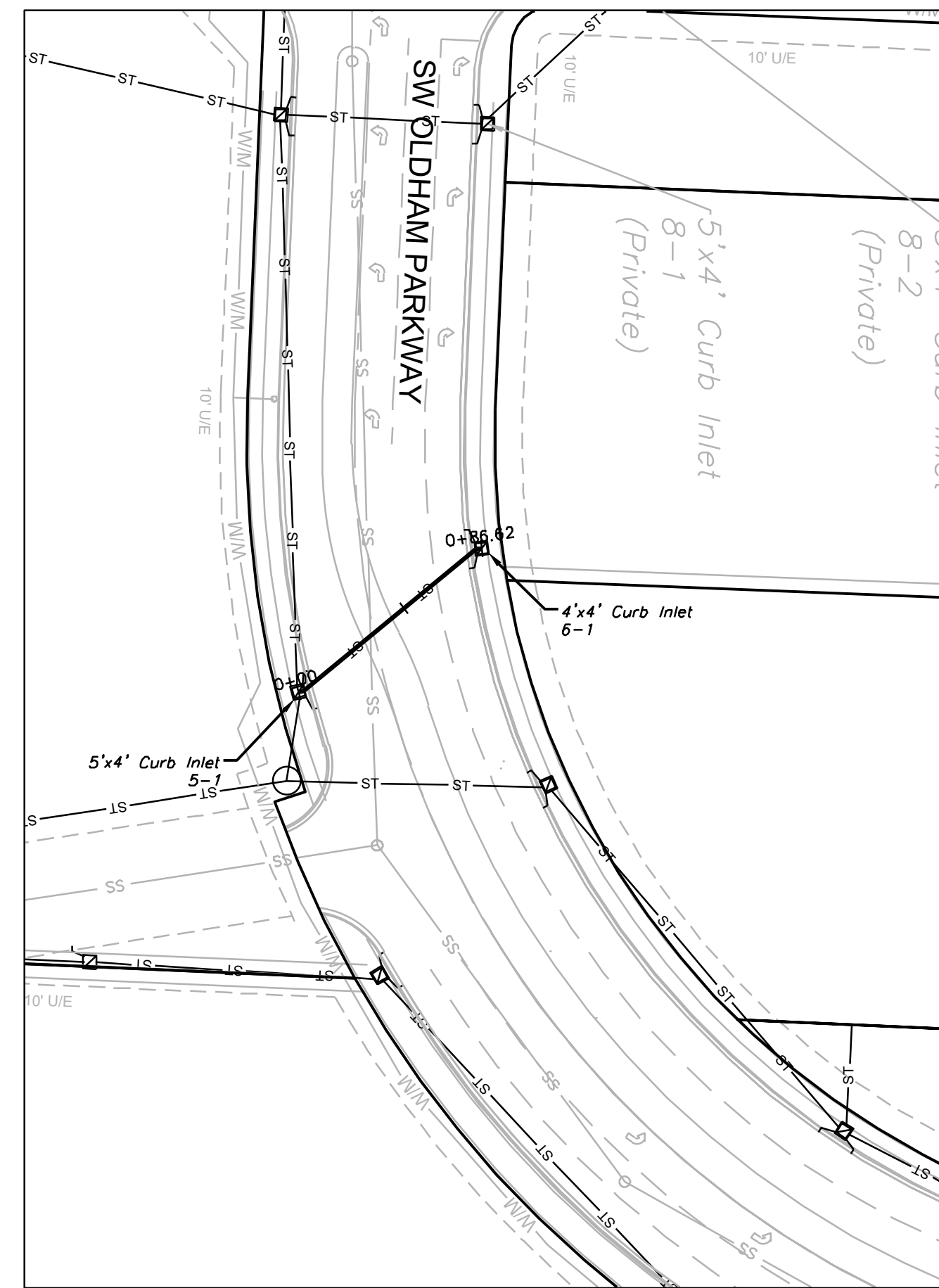


STORM LINE 3

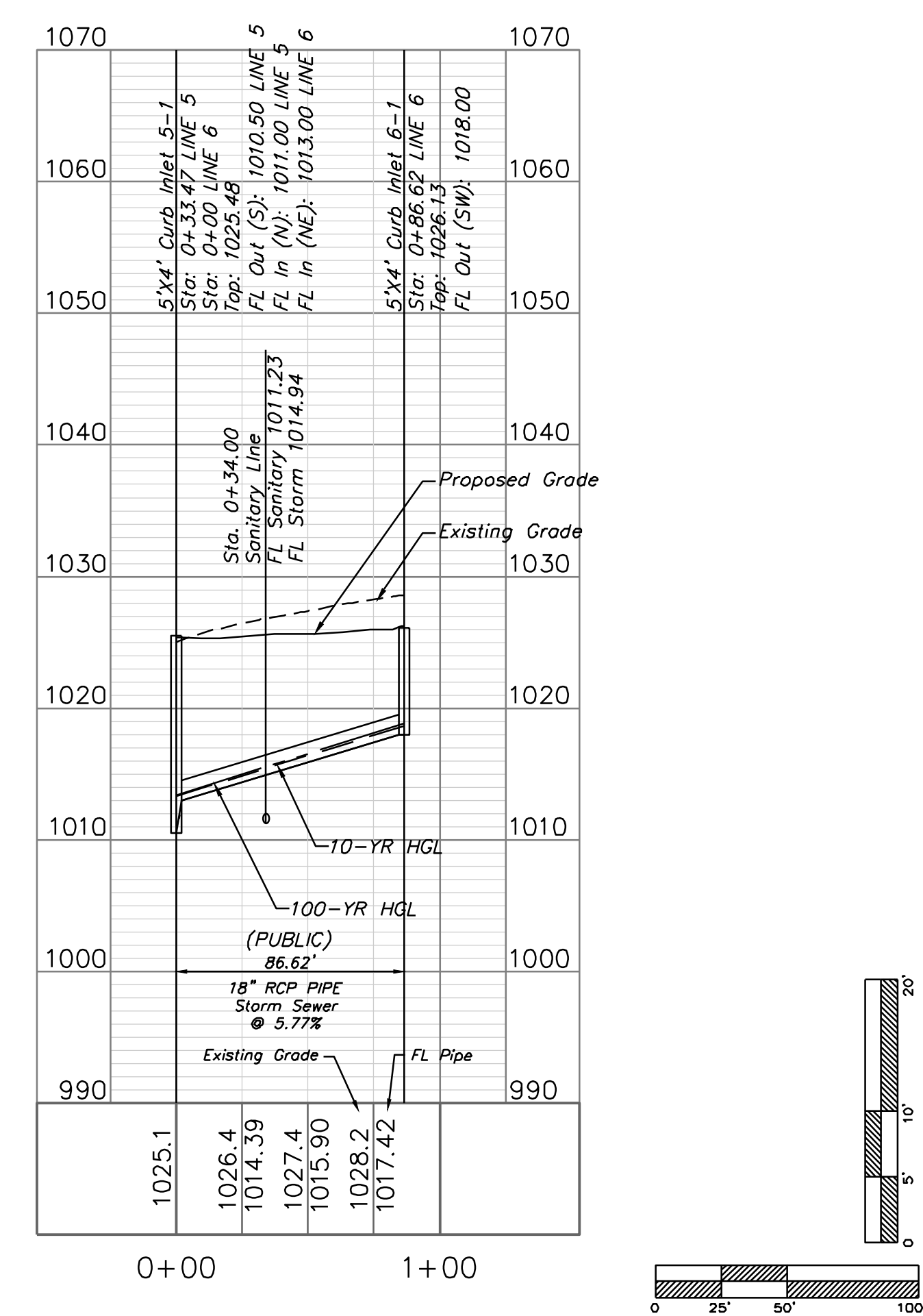


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'



STORM LINE 6

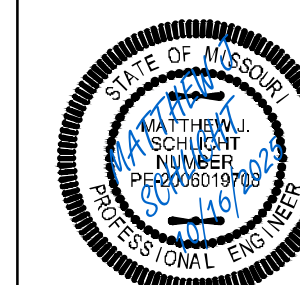


Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

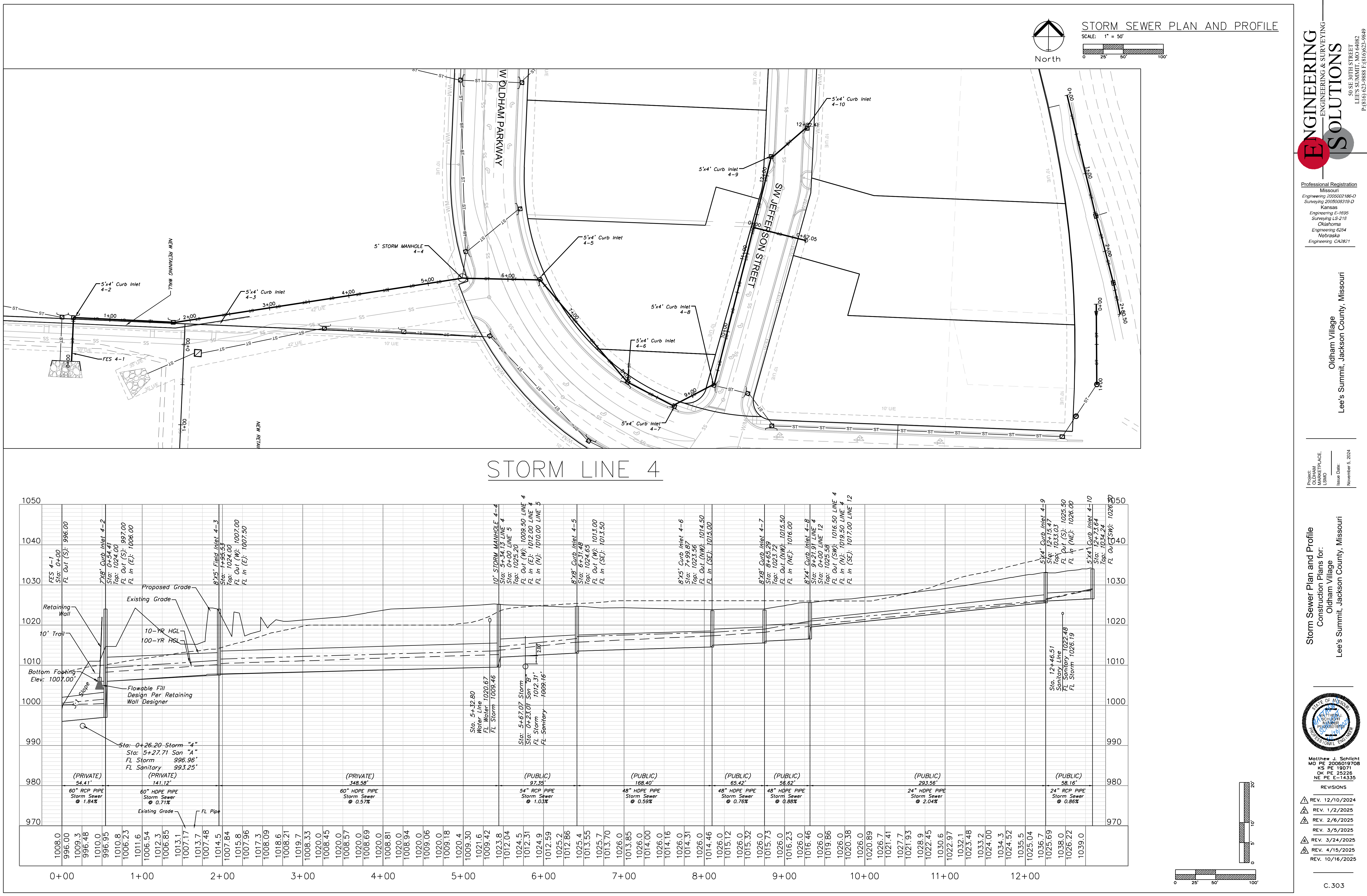
Project:
MARKETPLACE,
LSMO
Issue Date:
November 5, 2024

Storm Sewer Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

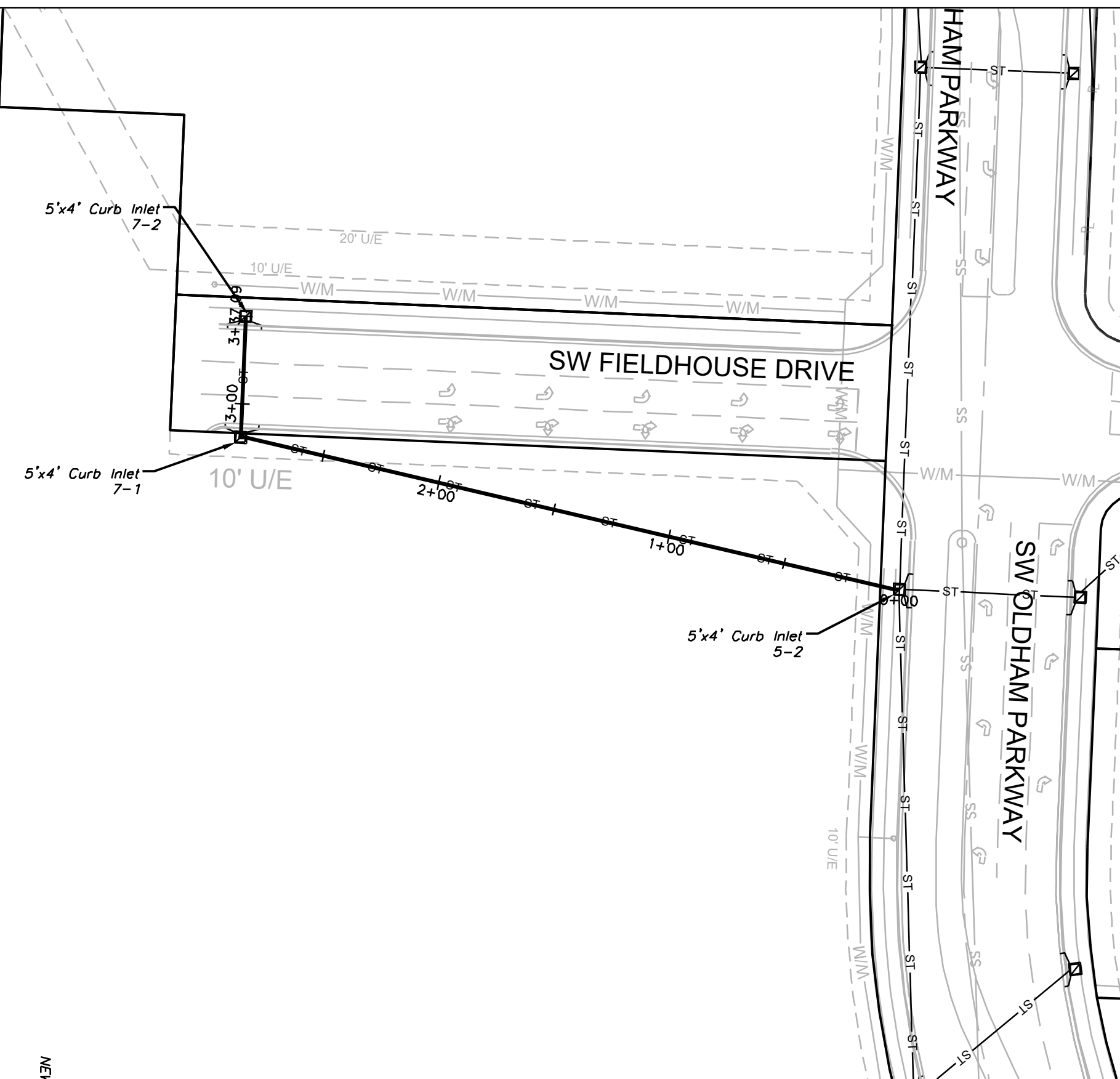
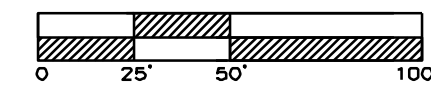
REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025



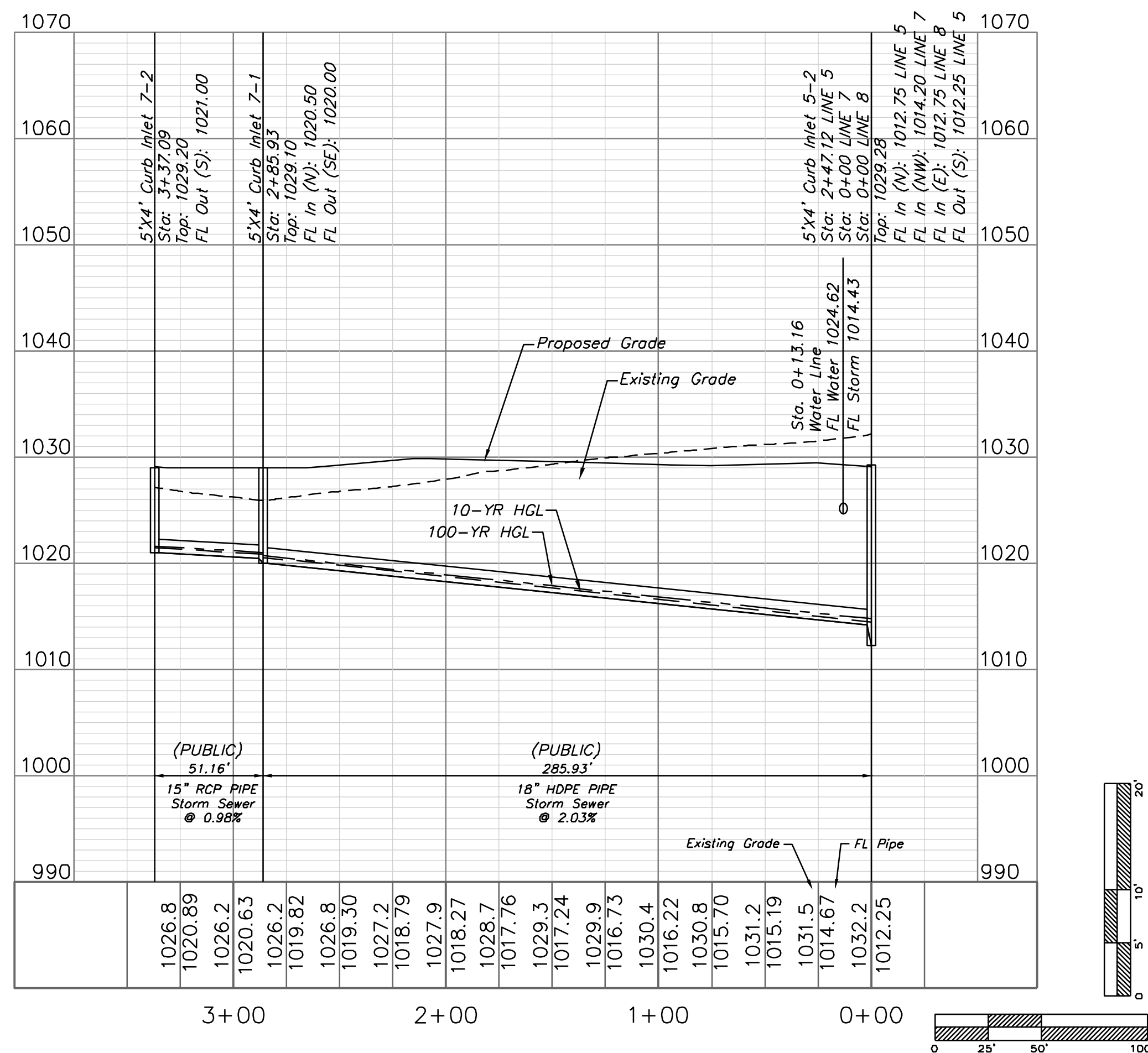


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'

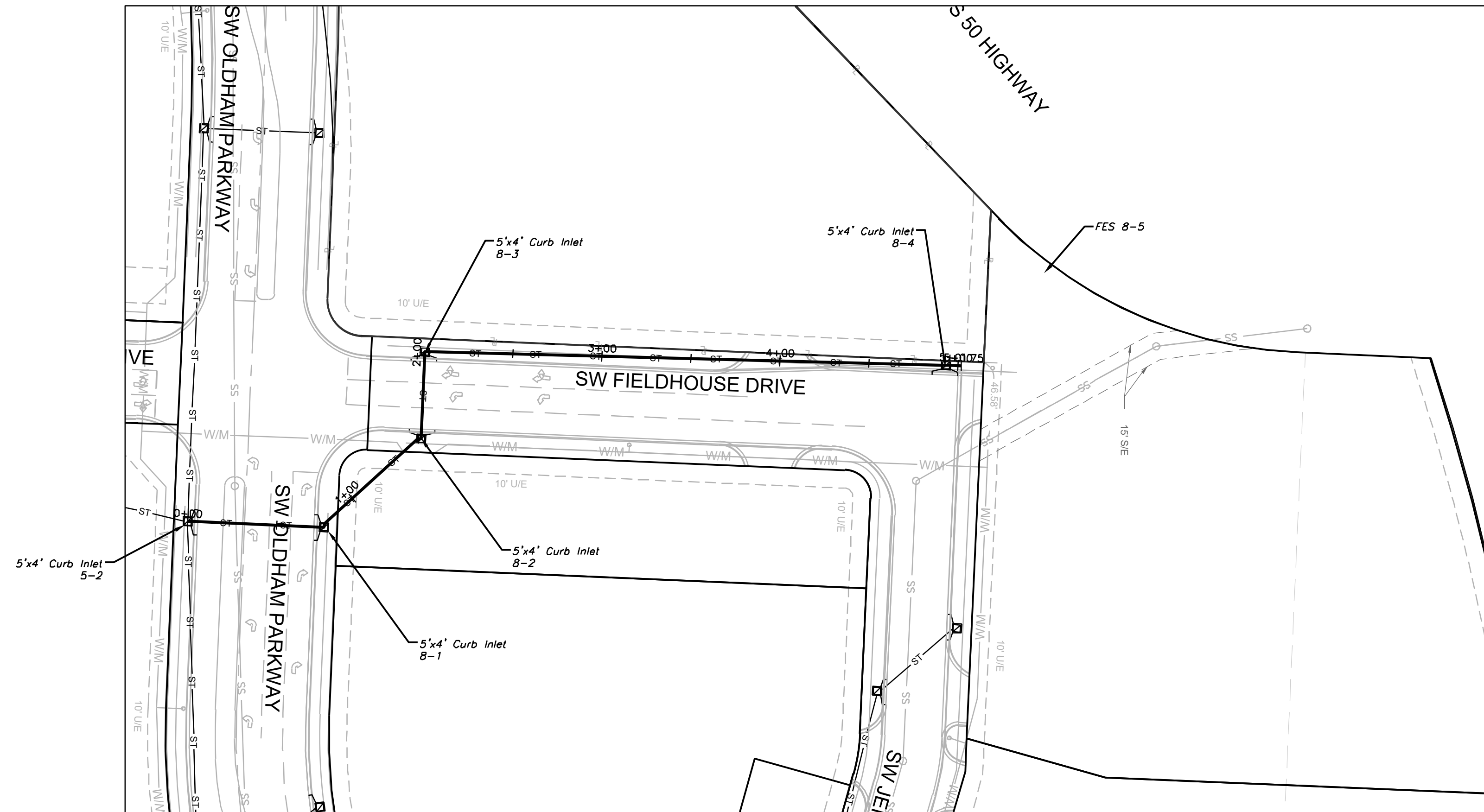
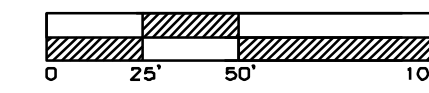


STORM LINE 7

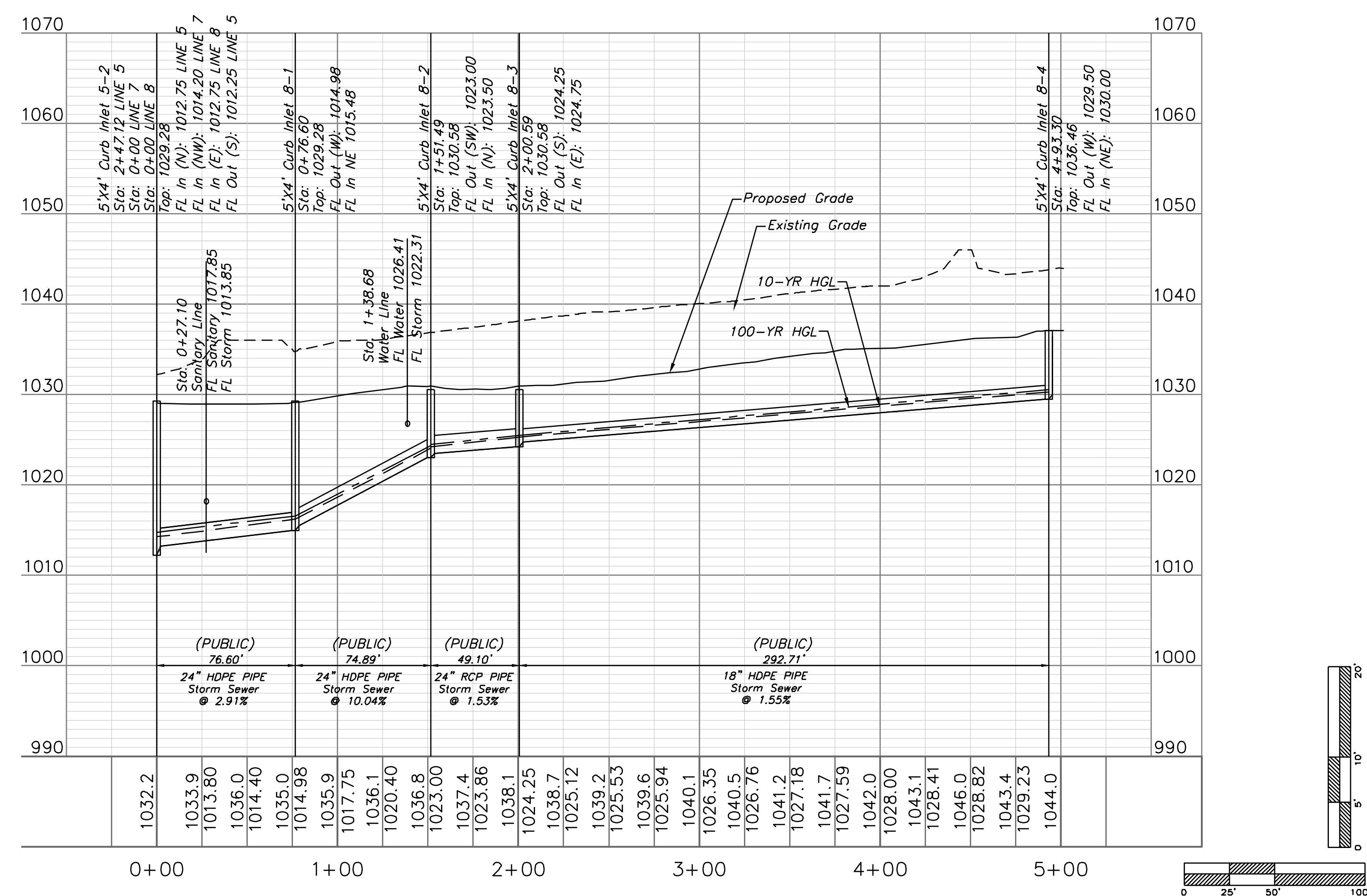


STORM SEWER PLAN AND PROFILE

SCALE: 1" = 50'



STORM LINE 8

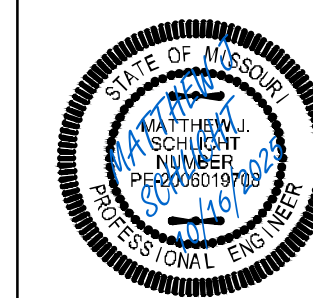


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

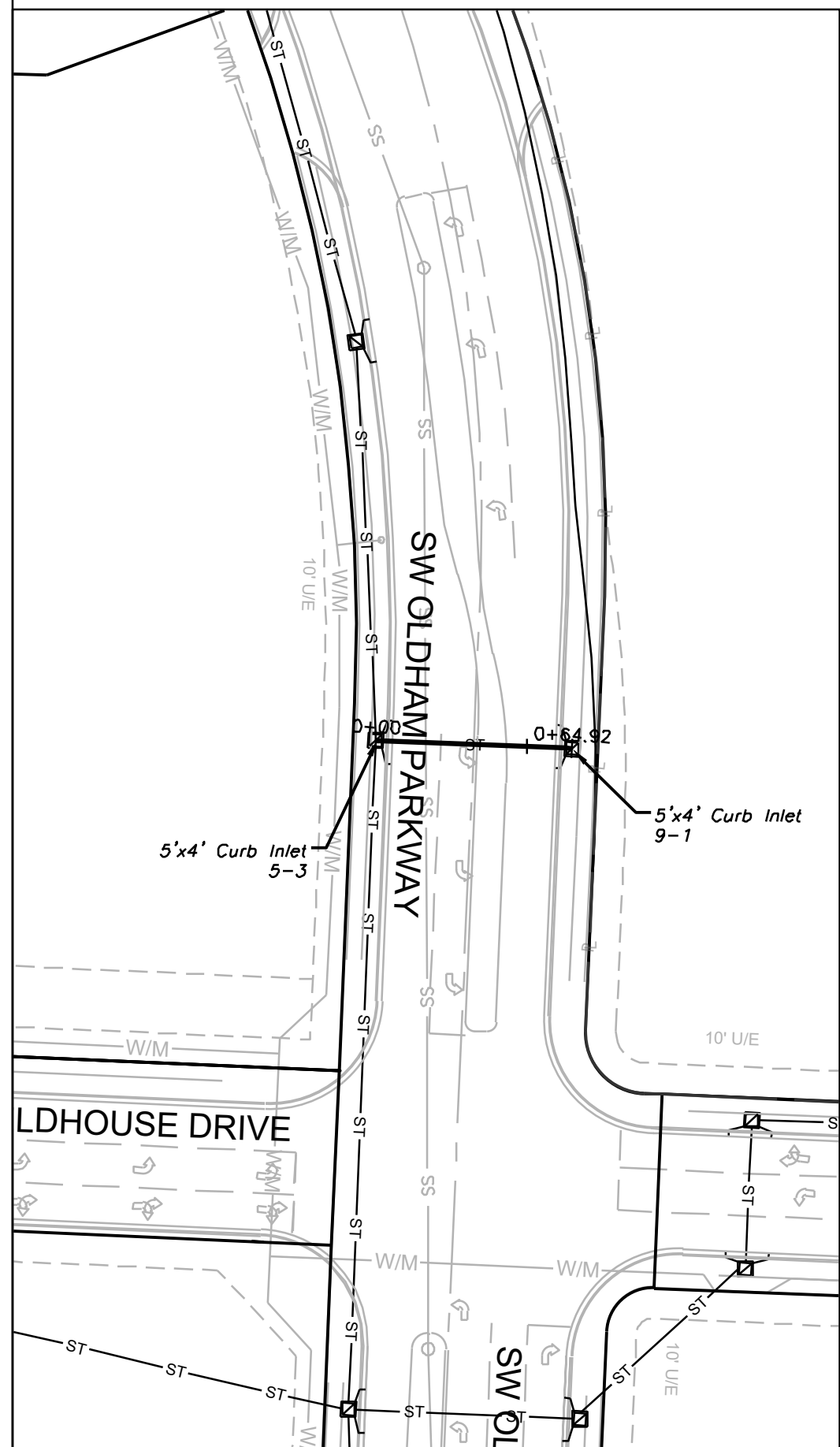
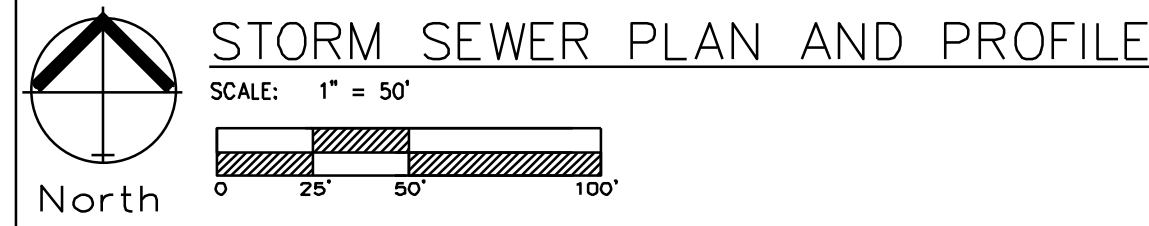
Project:
MARKETPLACE,
LSMO
Issue Date:
November 5, 2024

Storm Sewer Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

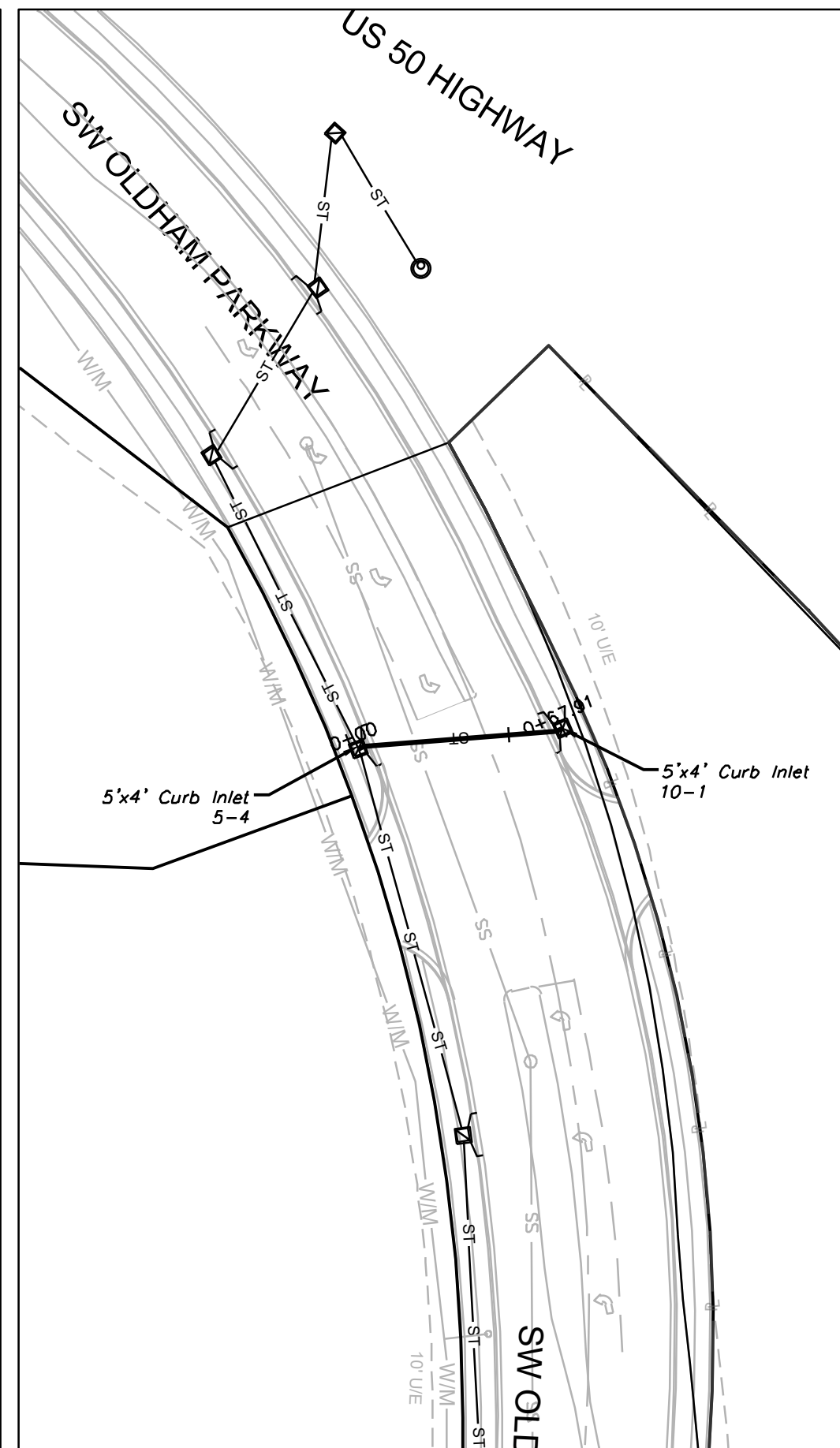
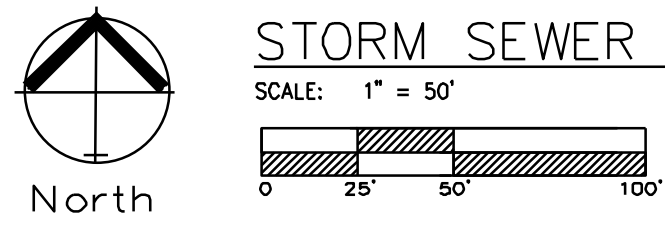
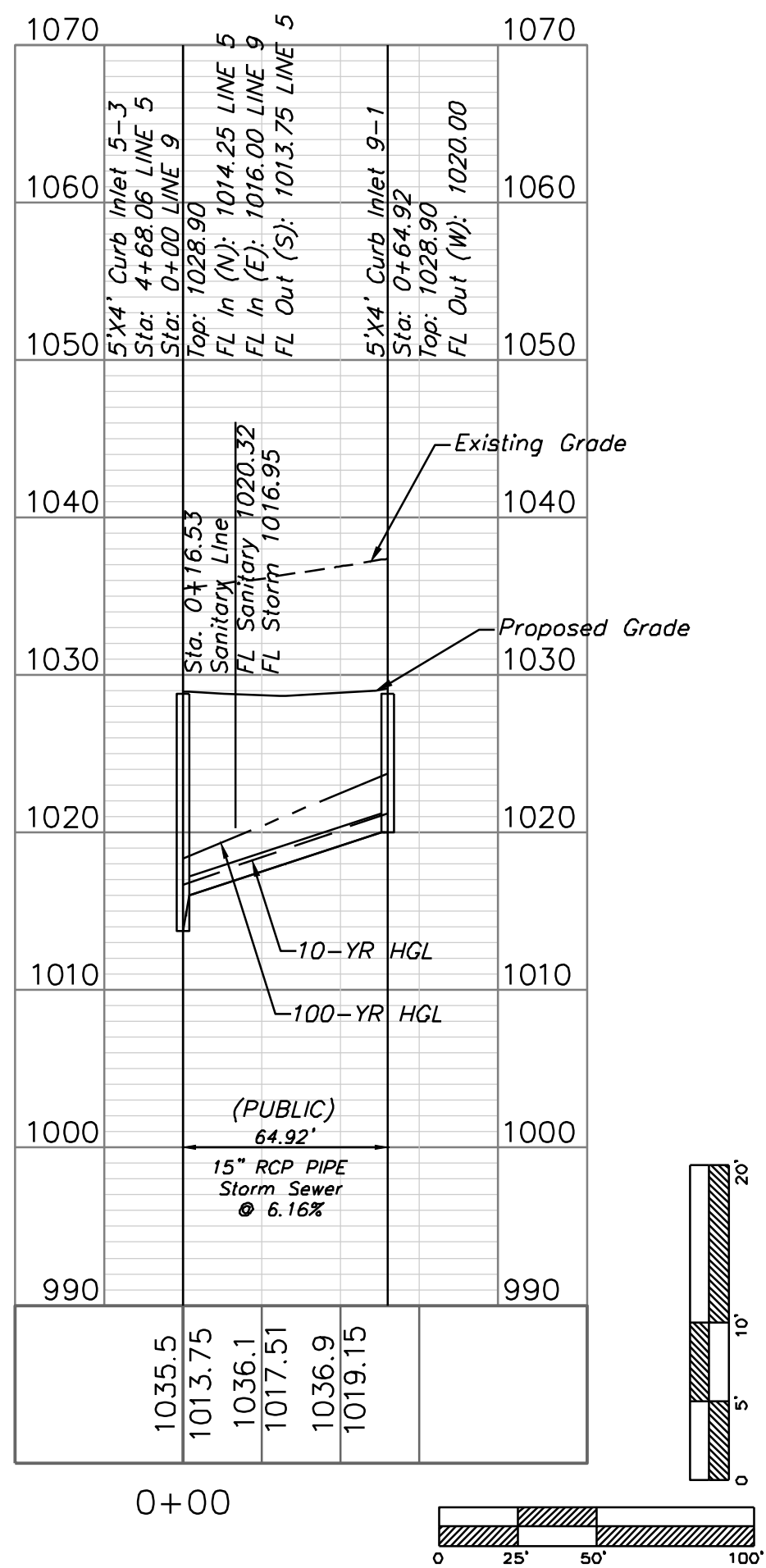


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

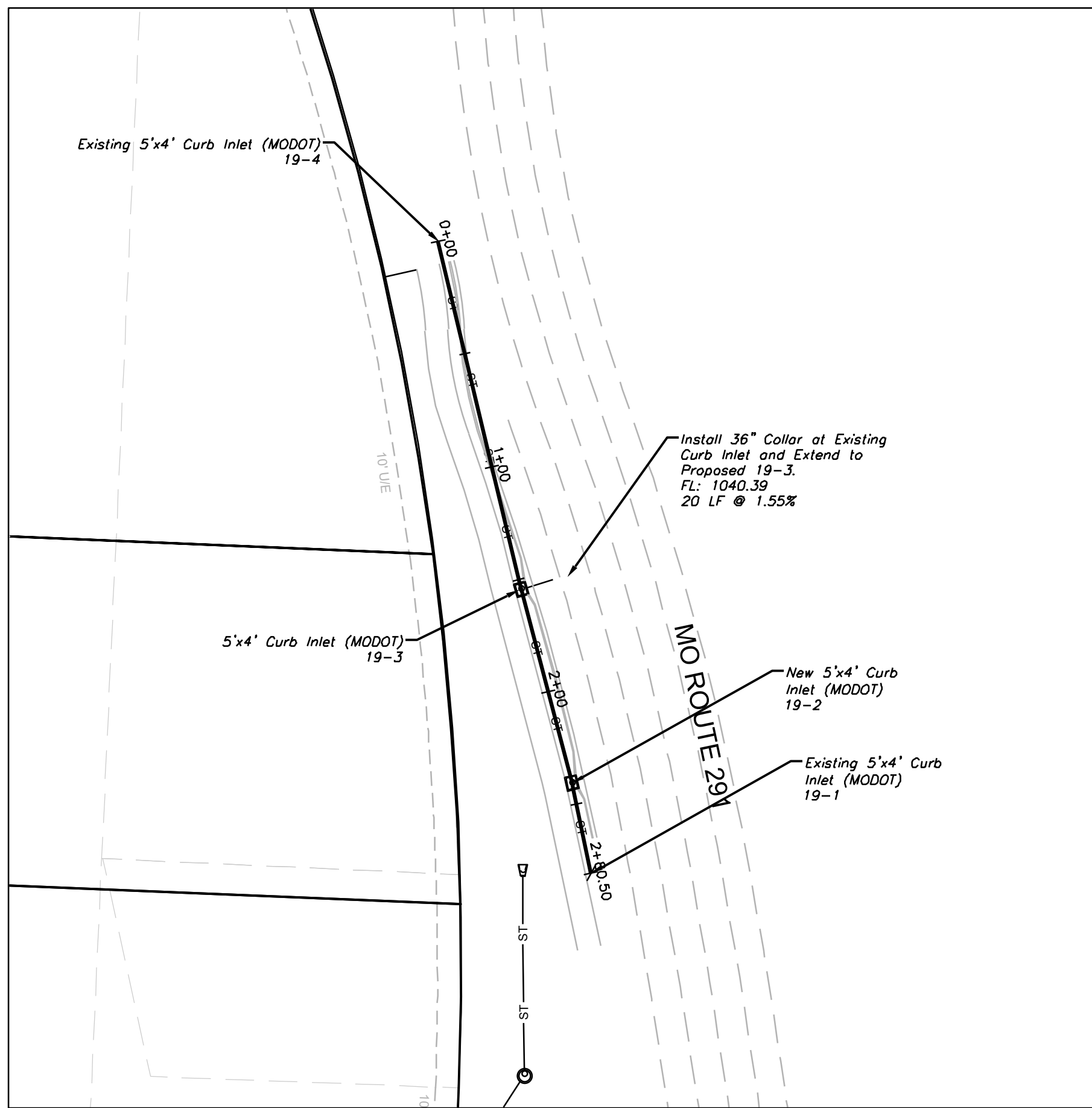
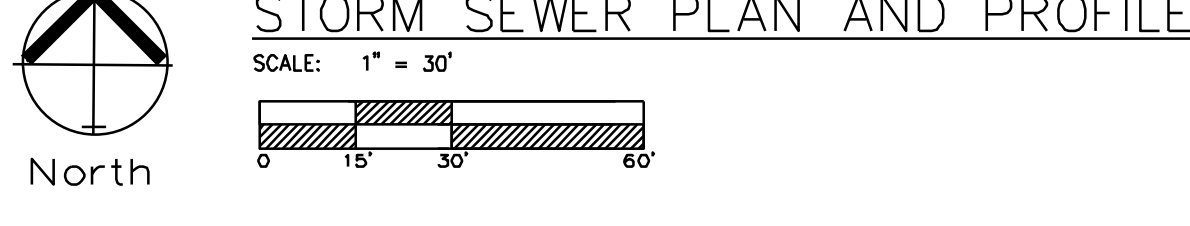
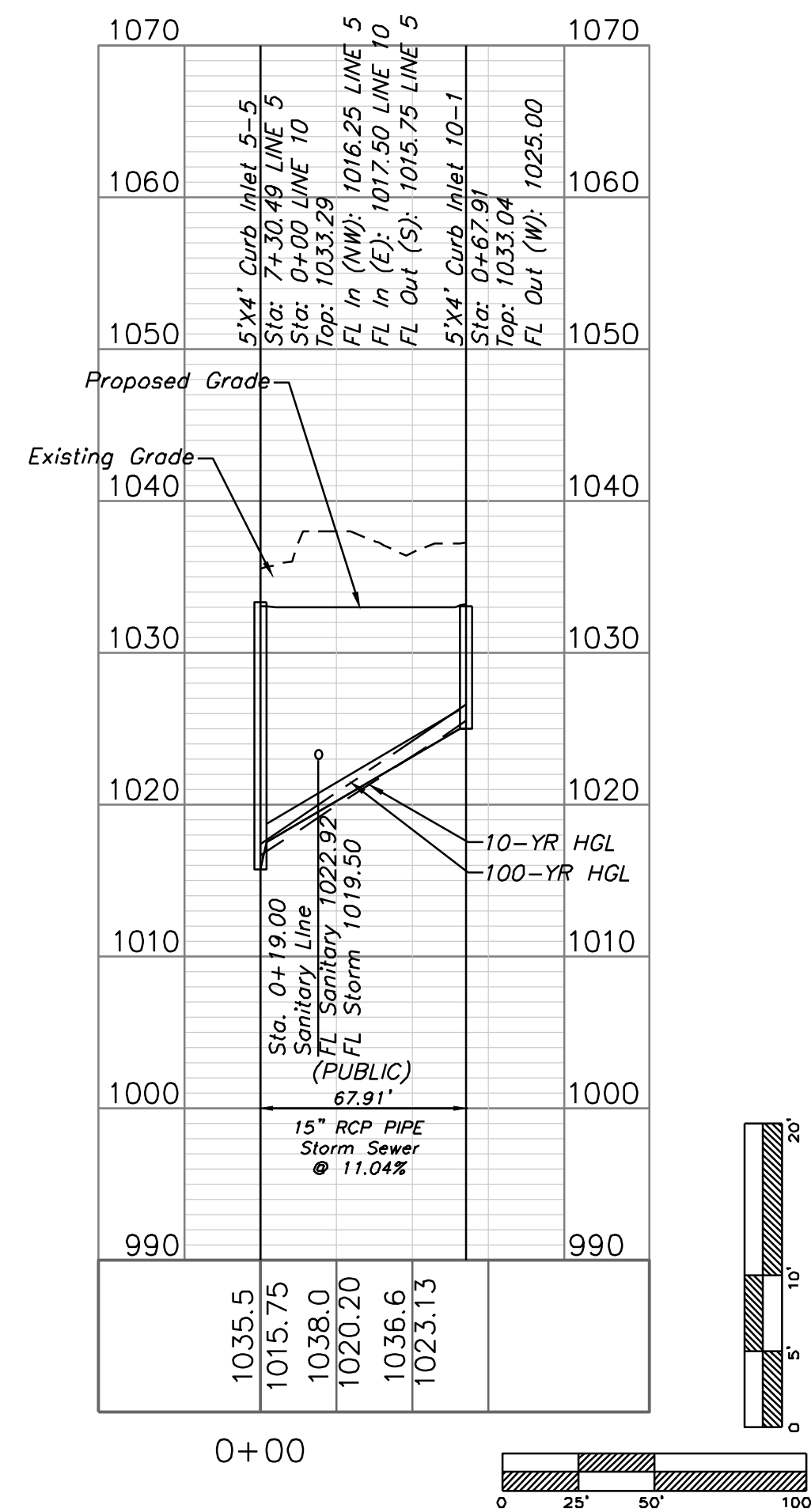
REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



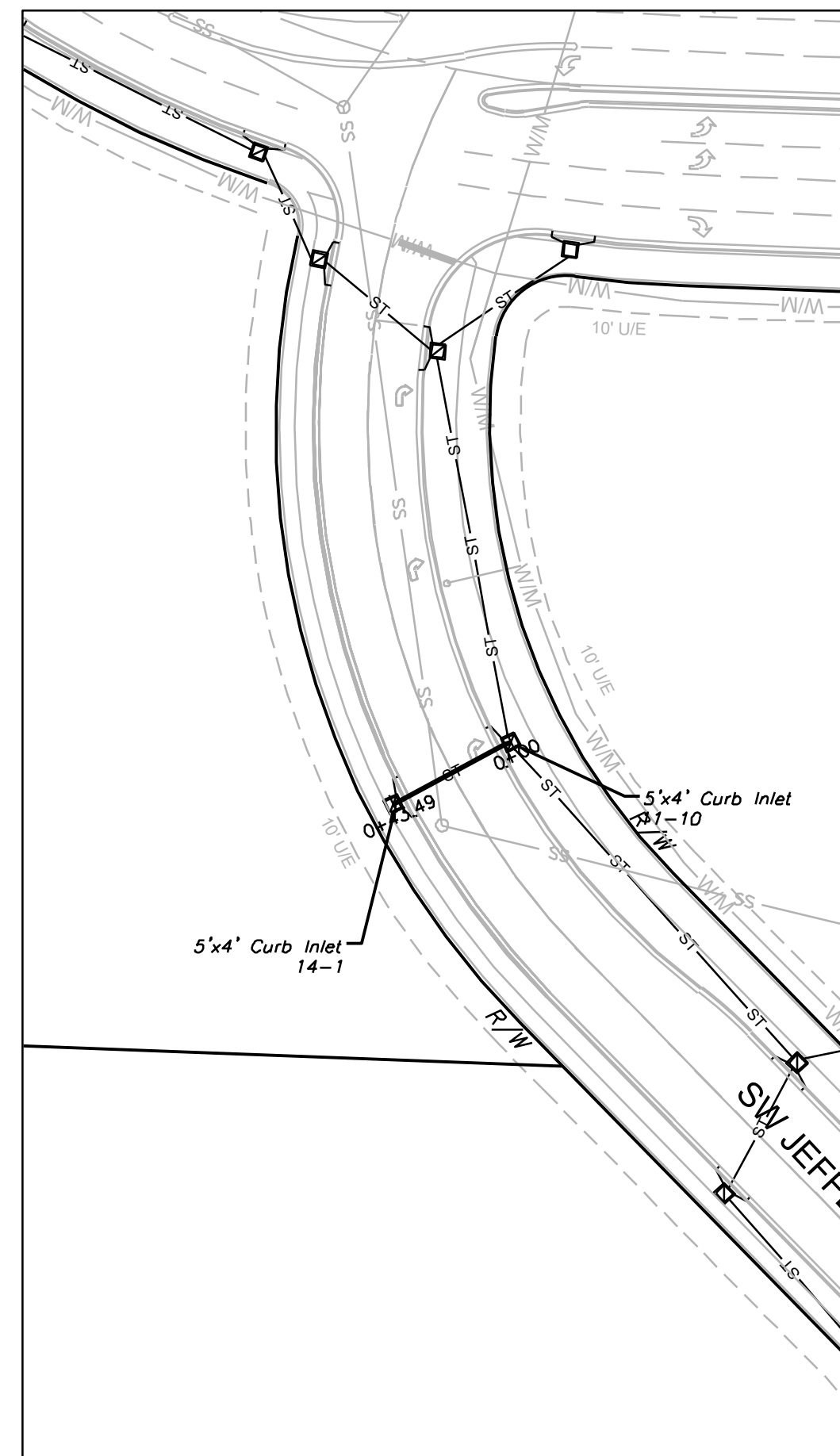
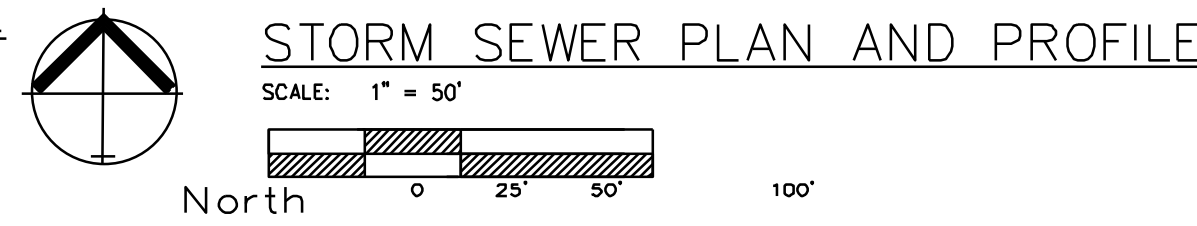
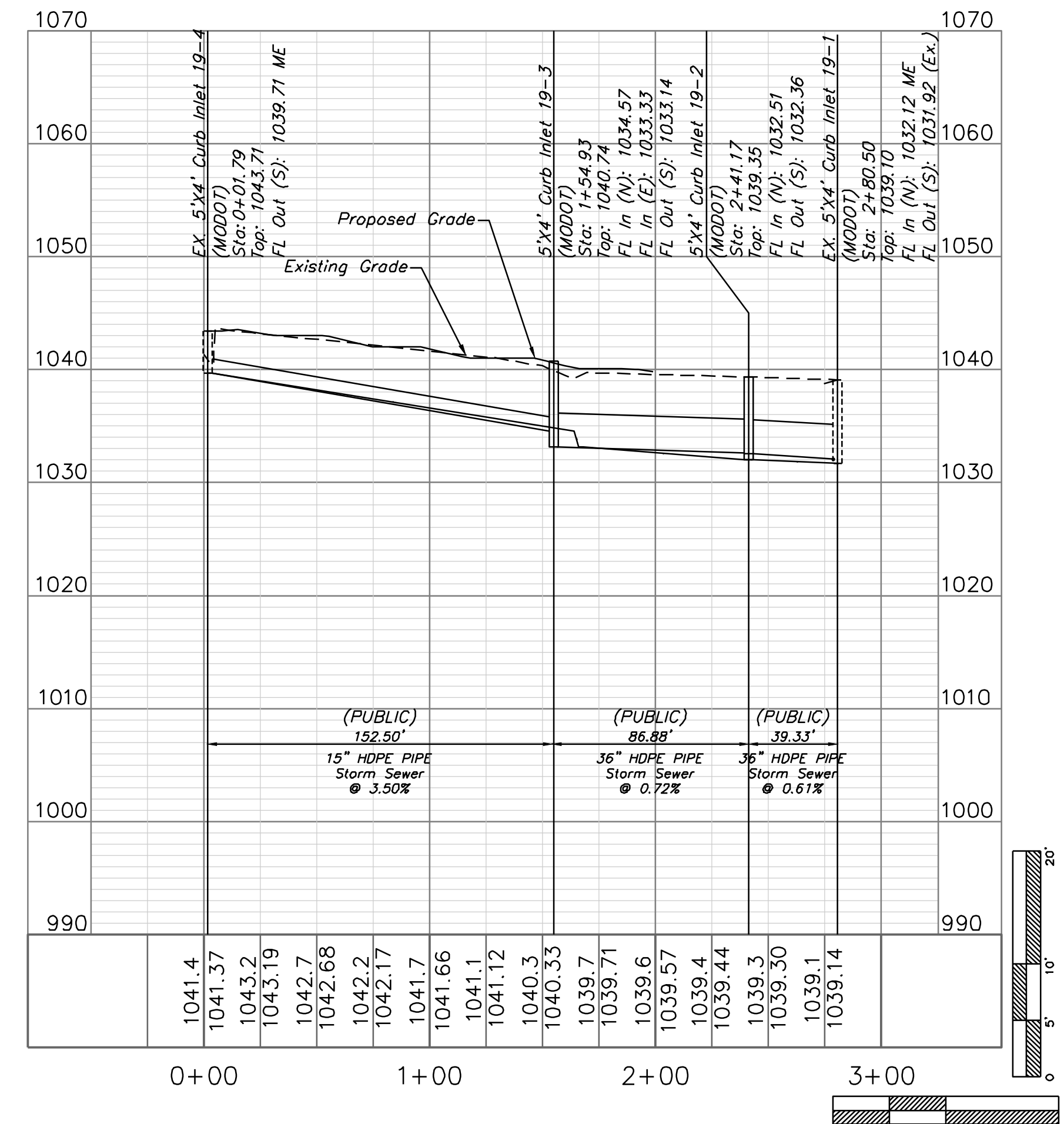
STORM LINE 9



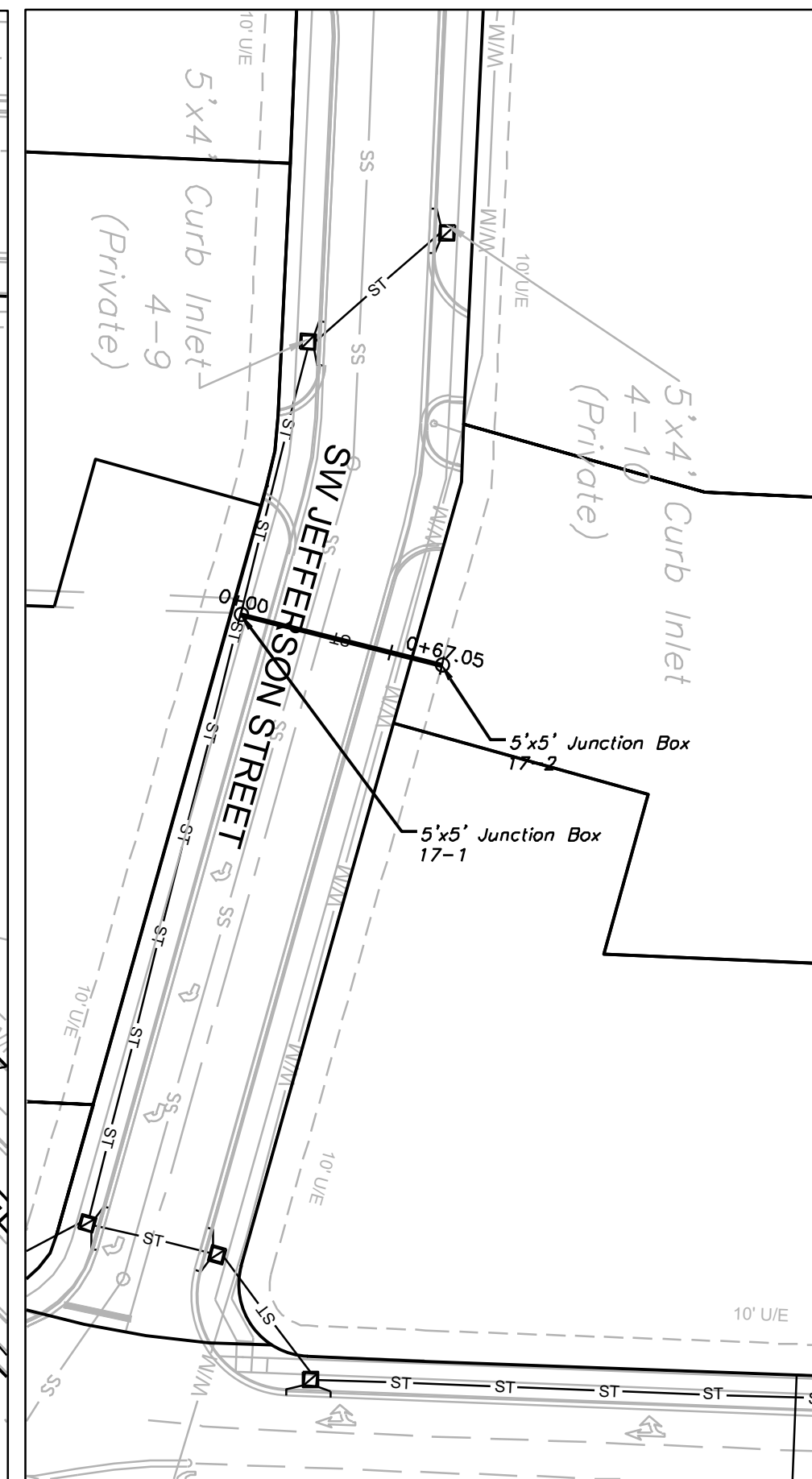
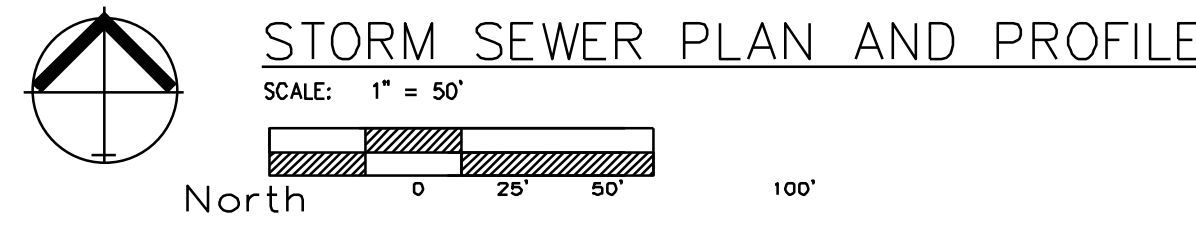
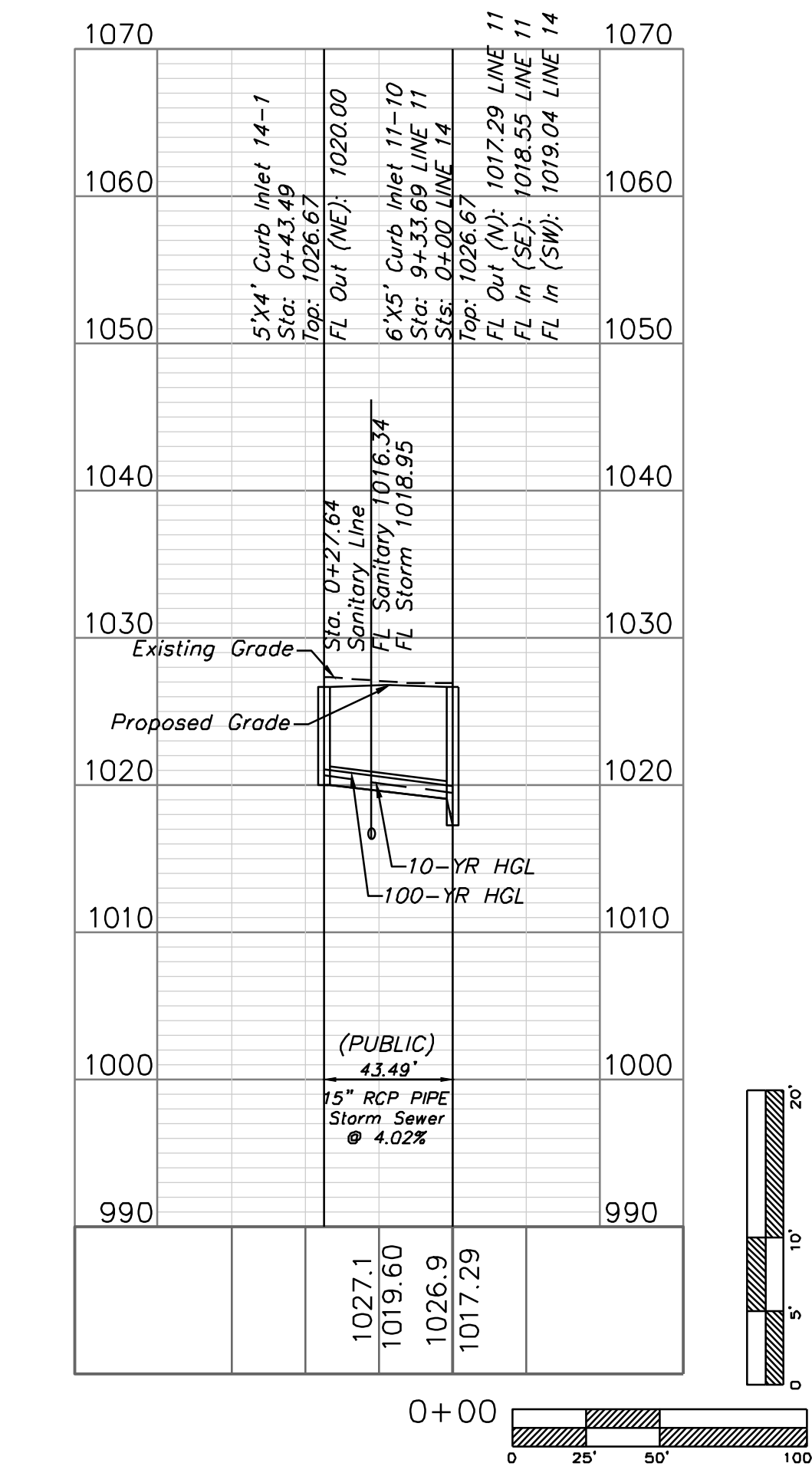
STORM LINE 10



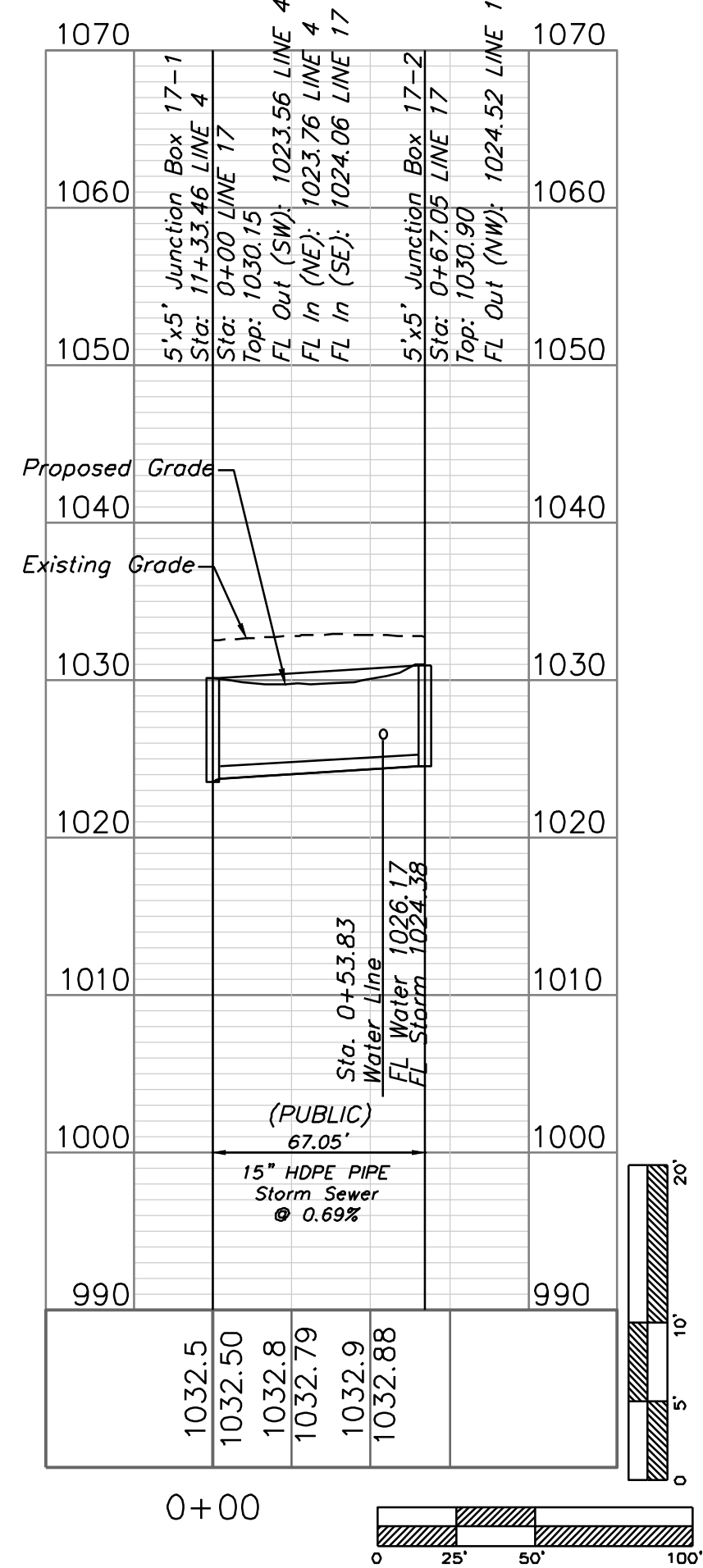
STORM LINE 19

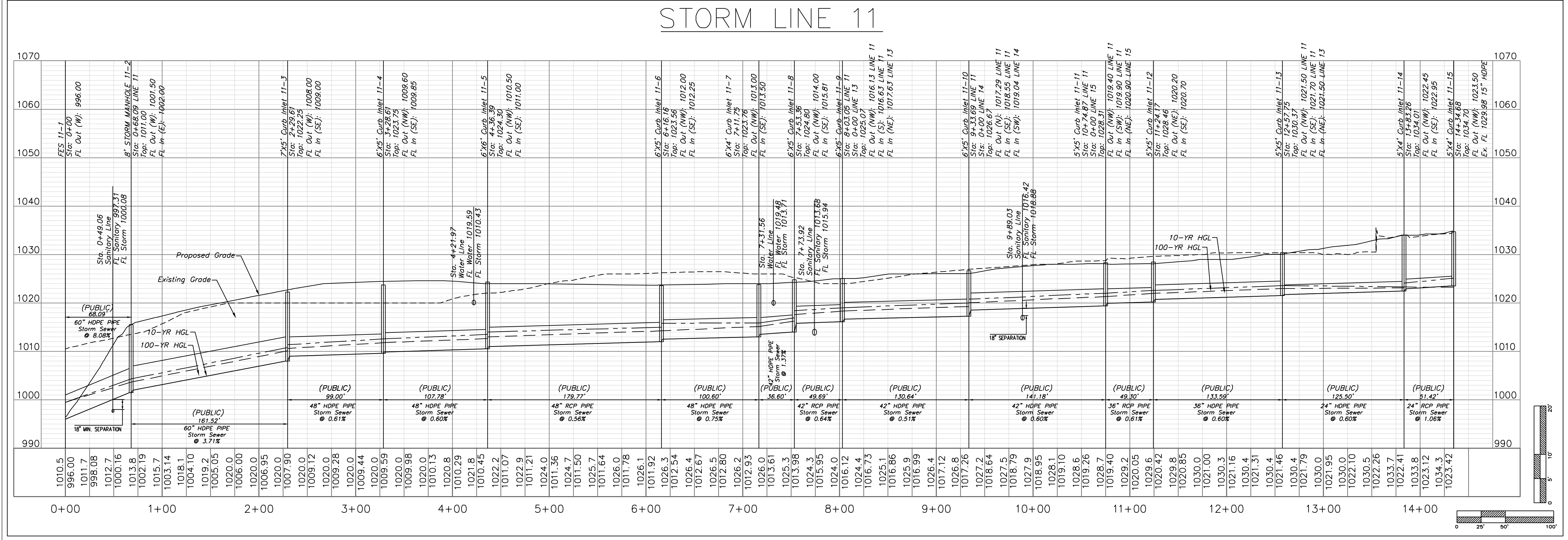
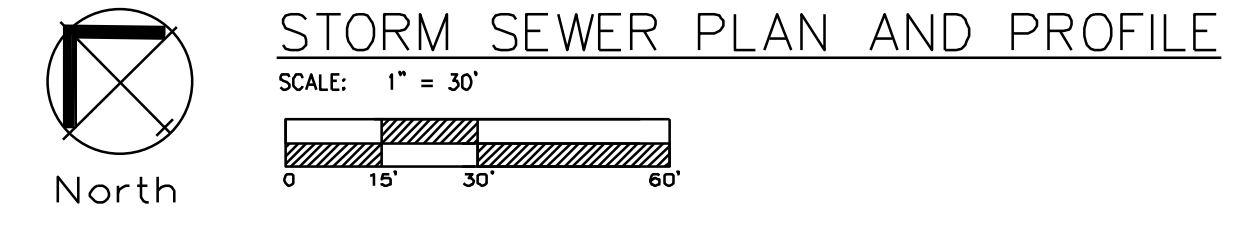
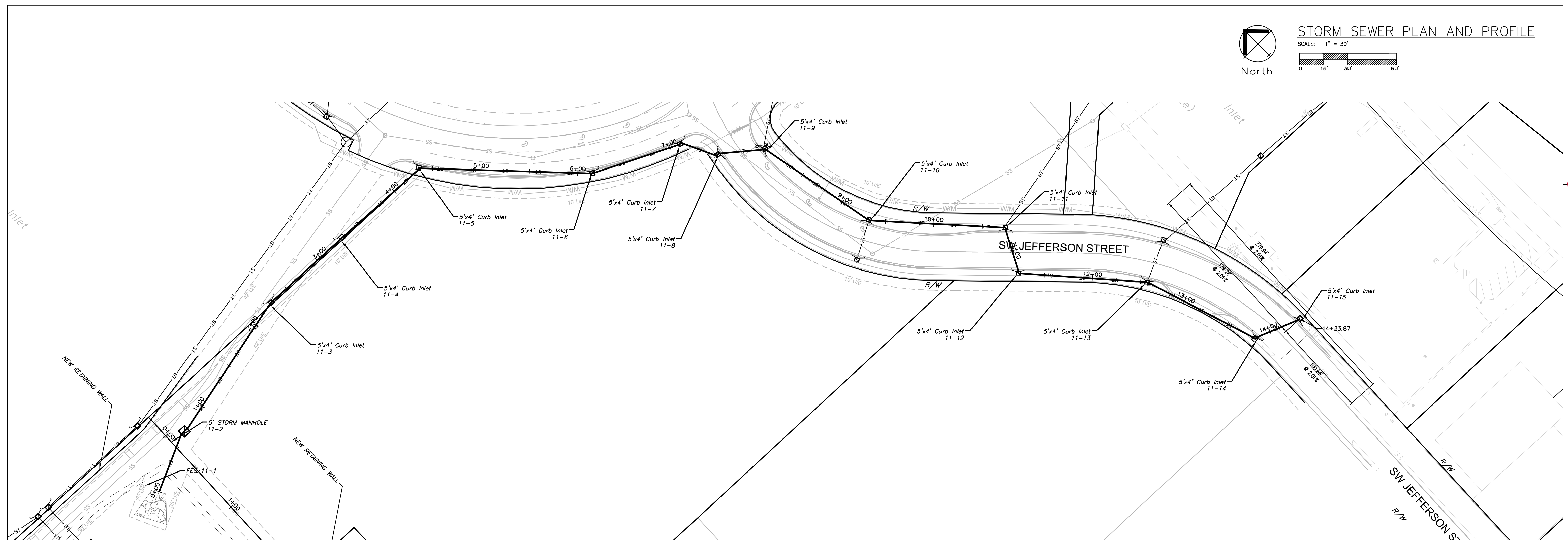


STORM LINE 14



STORM LINE 17



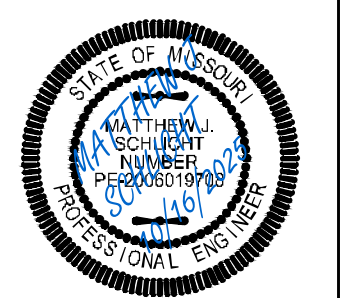


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project
Oldham Village
Lee's Summit, Jackson County, Missouri

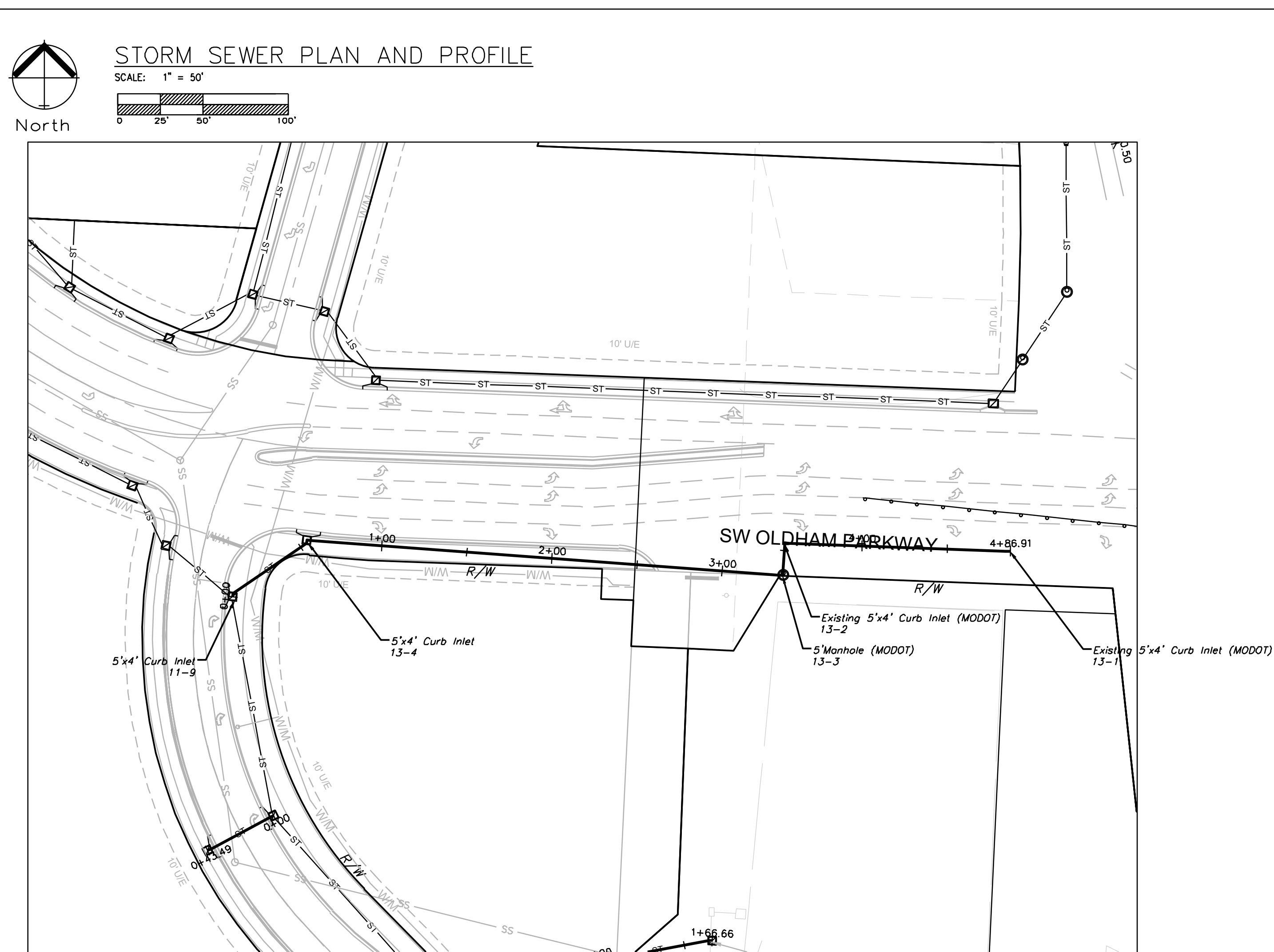
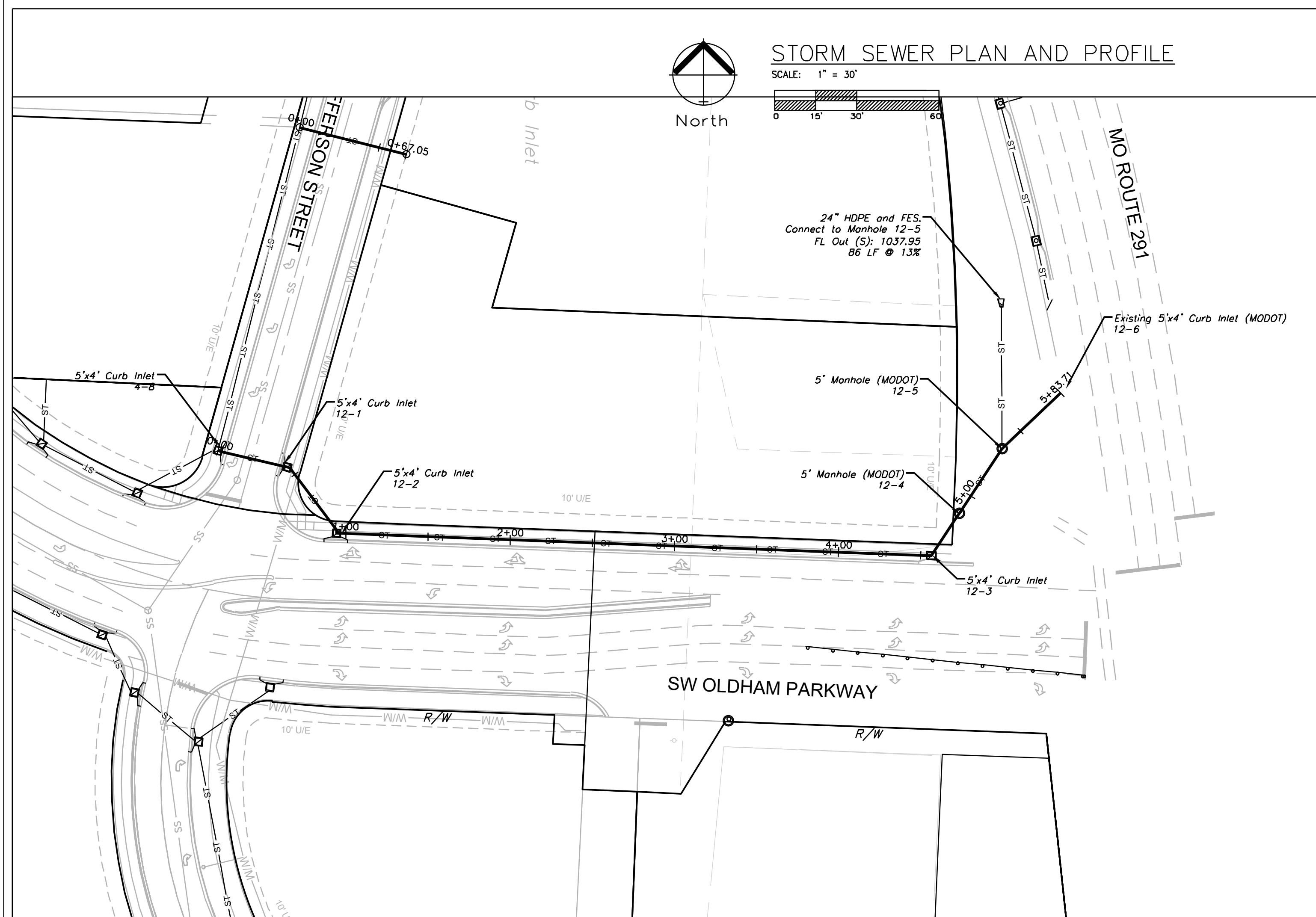
Issue Date:
November 5, 2024

Storm Sewer Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

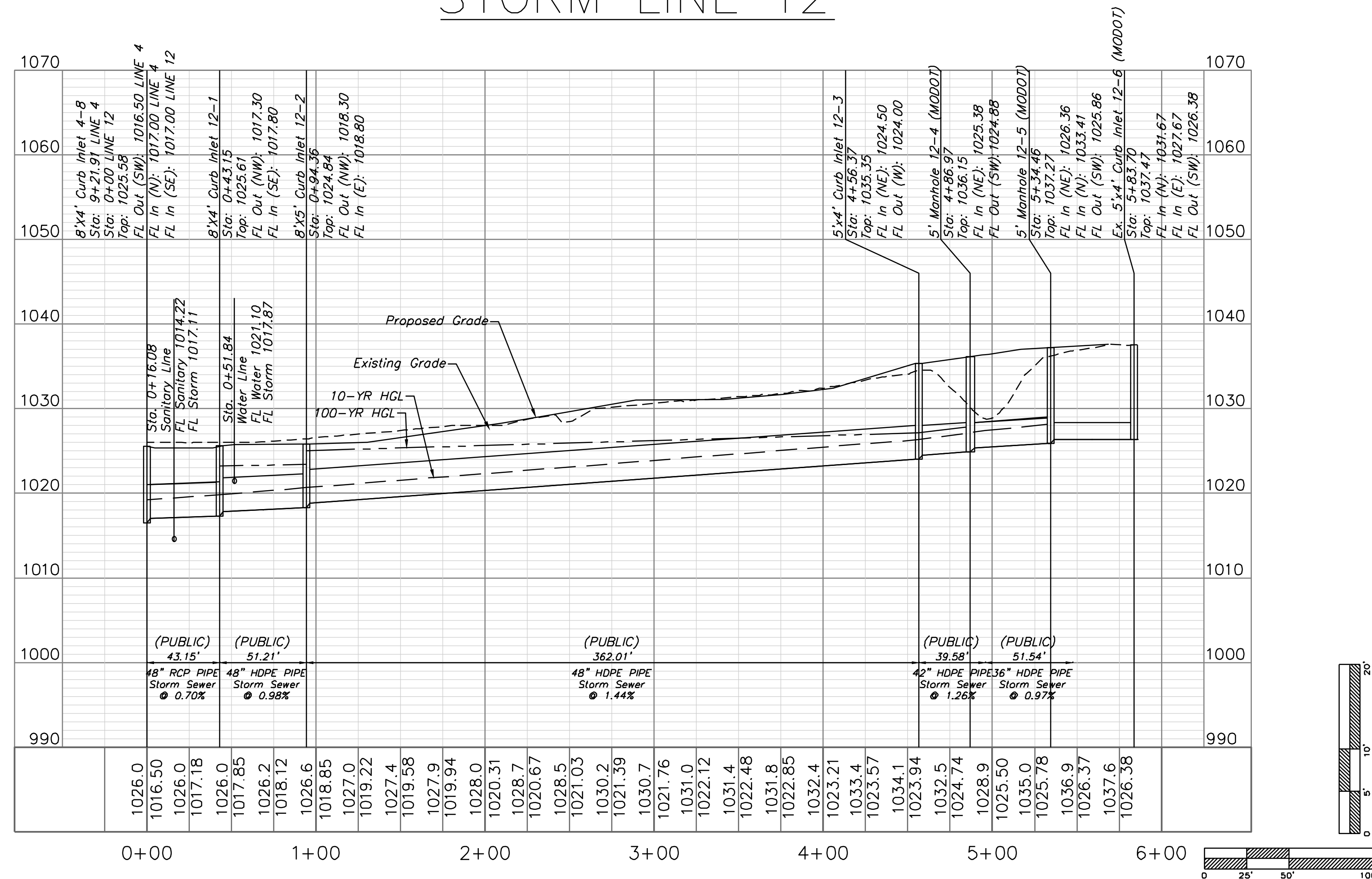


Matthew J. Schlacht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

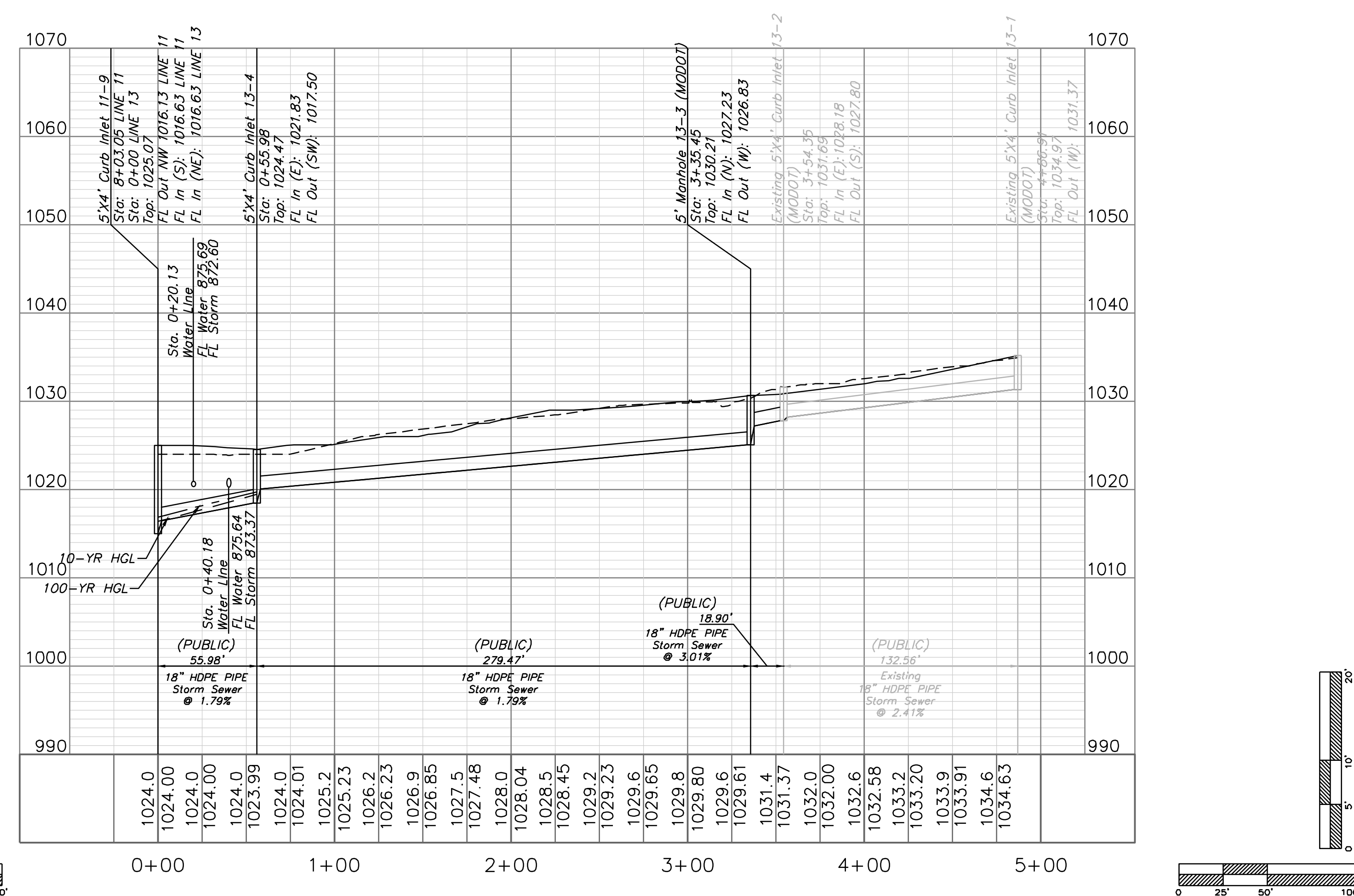
REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	



STORM LINE 12



STORM LINE 13



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

Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Jackson County, Missouri
Lee's Summit, Jackson County, Missouri

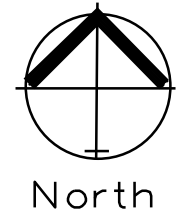
Project: SW OLDHAM PARKWAY
MARKETPLACE, LS MO
Issue Date: November 5, 2024

Storm Sewer Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri

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

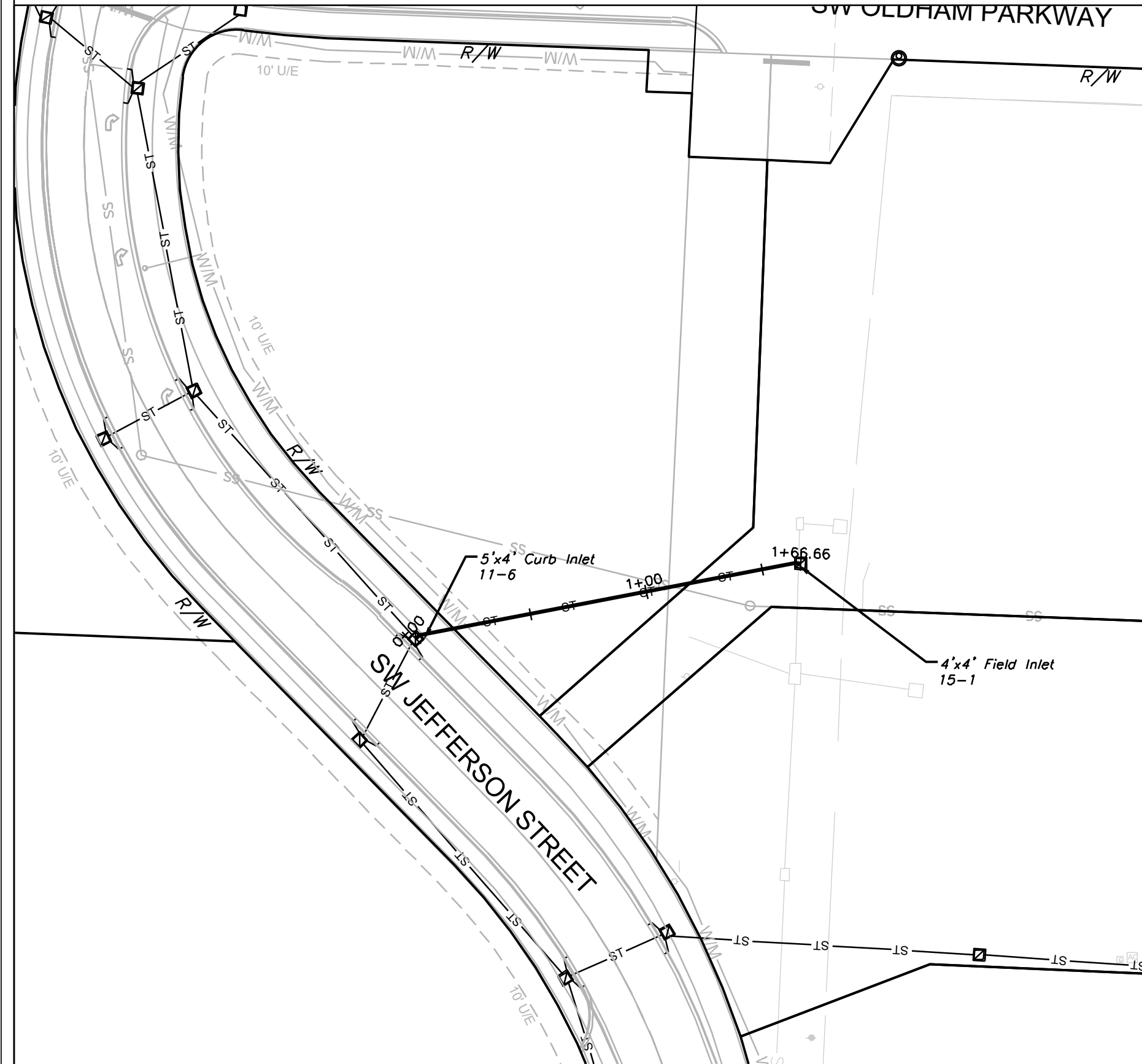
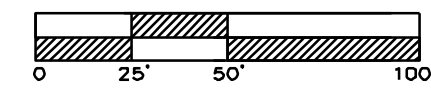
REVISIONS
REV. 12/10/2024
REV. 1/2/2025
REV. 2/6/2025
REV. 3/5/2025
REV. 3/24/2025
REV. 4/15/2025
REV. 10/16/2025

C. 308

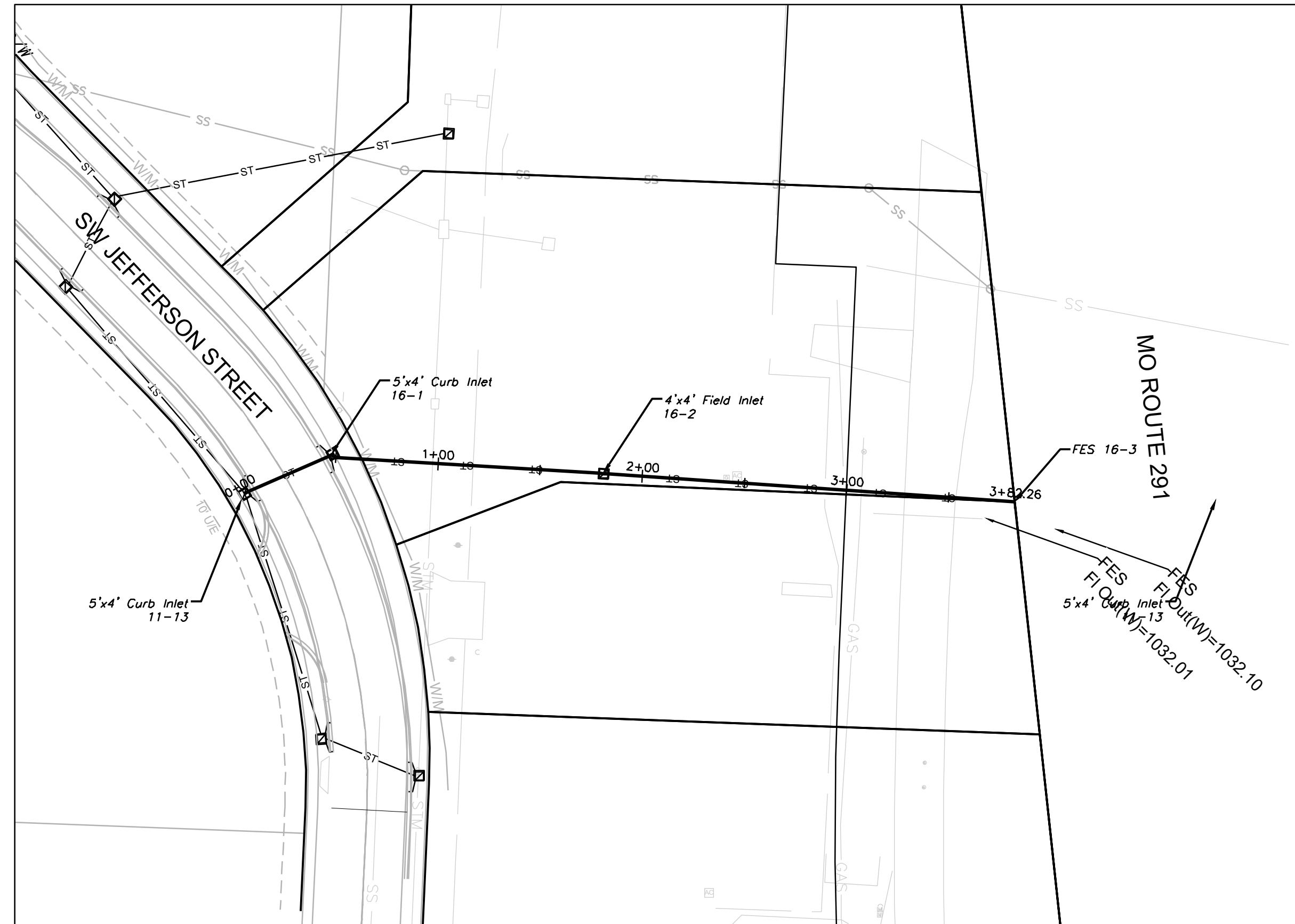
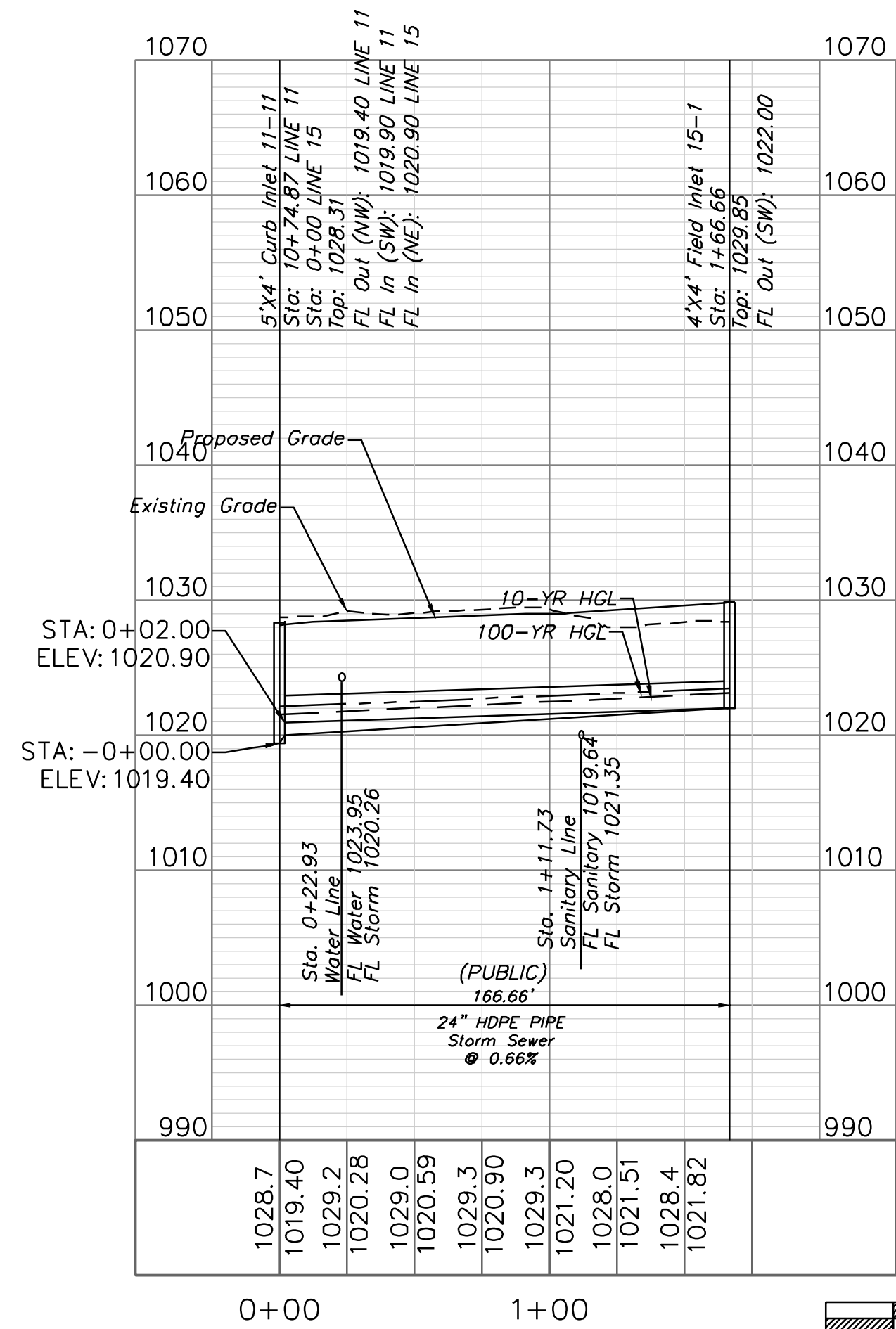


STORM SEWER PLAN AND PROFILE

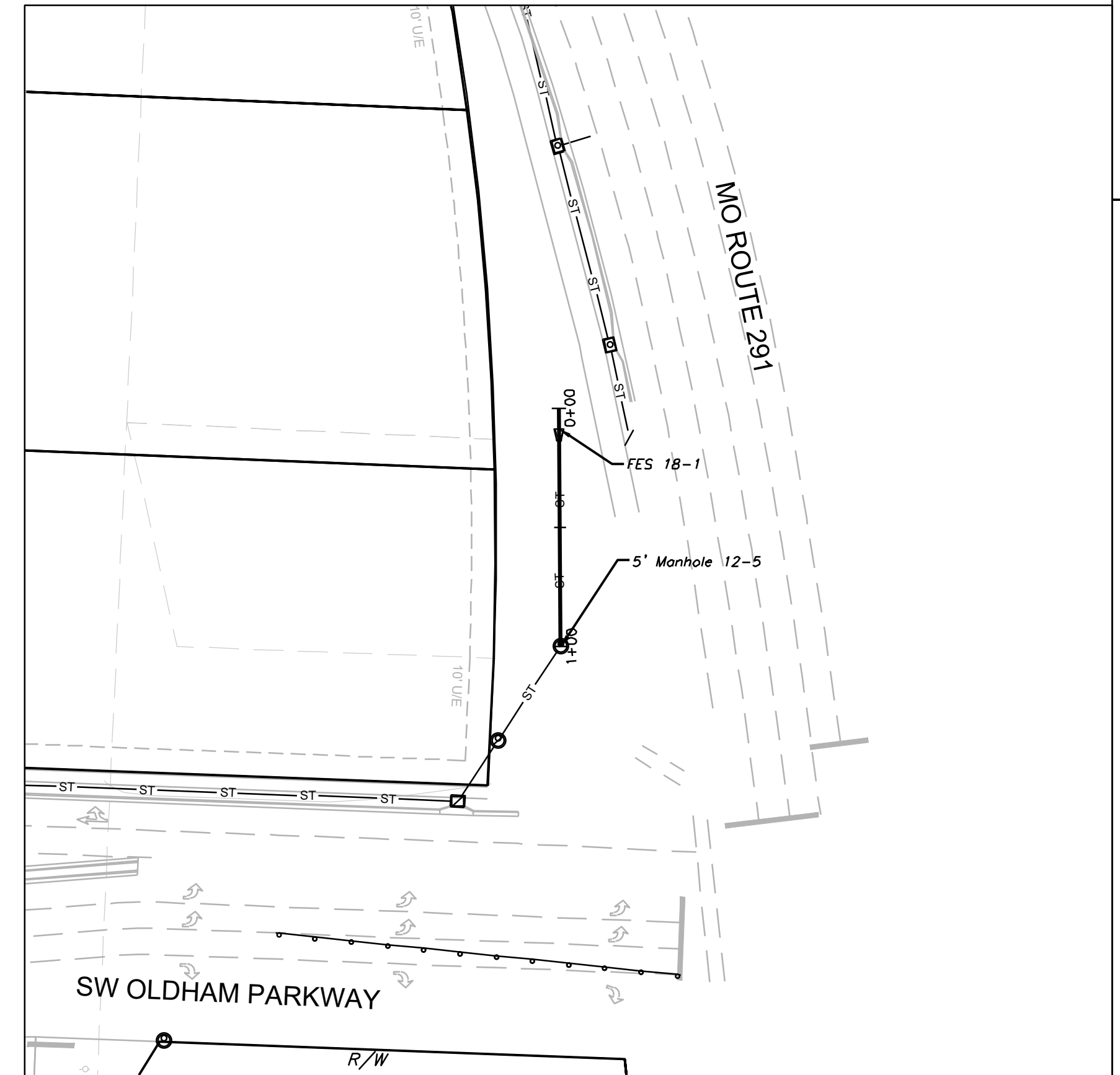
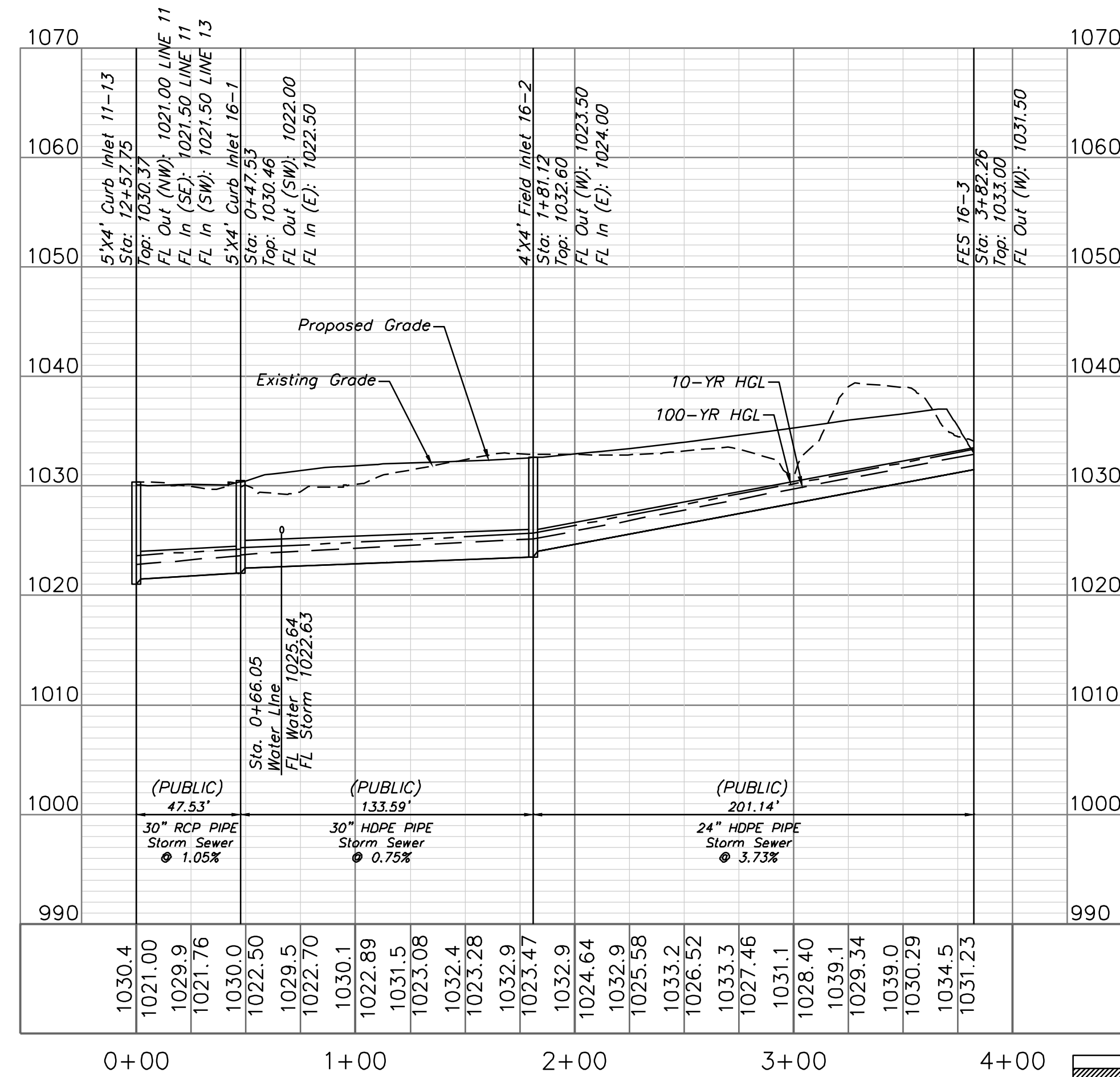
SCALE: 1" = 50'



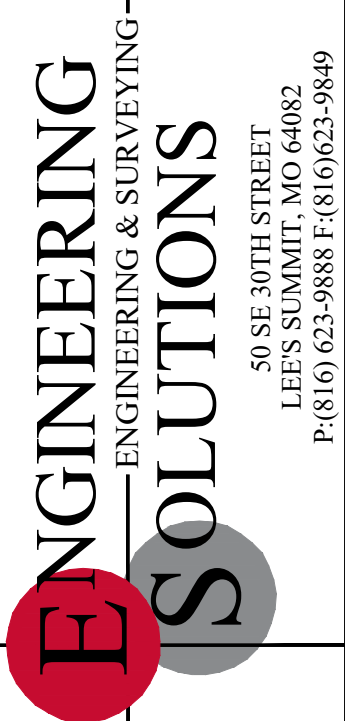
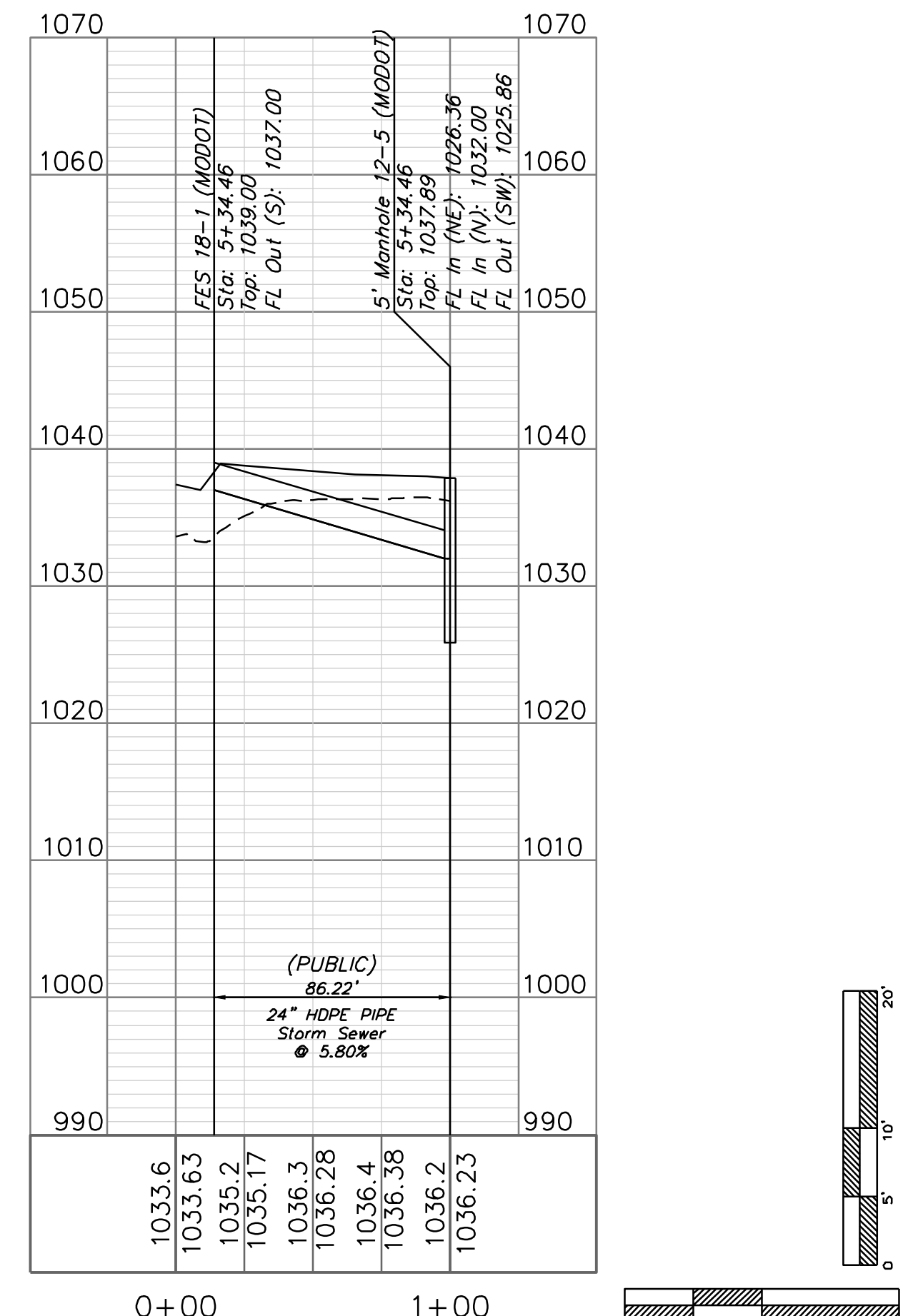
STORM LINE 15



STORM LINE 16



STORM LINE 18

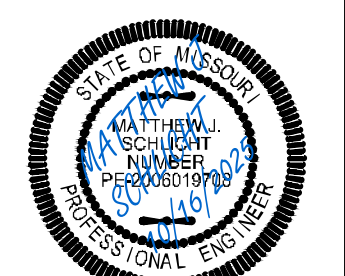


Professional Registration
Missouri
Engineering 200502186-D
Surveying 2005008318-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Oldham Village
Lee's Summit, Jackson County, Missouri

Project:
MARKETPLACE,
LSMO
Issue Date:
November 6, 2024

Storm Sewer Plan and Profile
Construction Plans for:
Oldham Village
Lee's Summit, Jackson County, Missouri



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

REVISIONS	
REV. 12/10/2024	
REV. 1/2/2025	
REV. 2/6/2025	
REV. 3/5/2025	
REV. 3/24/2025	
REV. 4/15/2025	
REV. 10/16/2025	

10-YEAR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
1-1	1-2	0.8	7.1	6.77	0.68	3.68	0	3.68	0	Curb	5.8	6	Sag	2	0.02	0.02	9	1.05	n/a	n/a	0.3	15.14	Sag
1-2	1-3	0.23	6.3	6.98	0.68	1.09	0	1.09	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.08	n/a	n/a	0.08	4.01	Sag
1-3	1-4	0.97	6.5	6.92	0.68	4.57	0	4.57	0	Dp-Curb	6	20	Sag	....	0.02	0.02	....	0.18	n/a	n/a	0.18	8.97	Sag
1-4	1-5	0.2	6.3	6.98	0.68	0.95	0	0.95	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.07	n/a	n/a	0.07	3.65	Sag
1-5	1-6	7.54	9.3	6.26	0.68	32.11	0	32.11	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.81	n/a	n/a	0.81	40.39	Sag
1-6	1-7	0.76	6.2	7	0.68	3.62	0	3.62	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.18	n/a	n/a	0.18	8.92	Sag
1-7	1-8	0.2	5.2	7.28	0.68	0.99	0	0.99	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.08	n/a	n/a	0.08	3.76	Offsite
1-8	1-9	0.45	8.1	6.53	0.68	2	0	1.85	0.15	Curb	5.8	5	0.015	2	0.05	0.02	9	0.96	0.08	1.69	0.21	7.37	Sag
1-5	2-1	1.32	7.3	6.72	0.68	6.03	0	6.03	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.25	n/a	n/a	0.25	12.53	Sag
3-1	3-2	24.42	21.9	4.44	0.68	73.75	0	73.75	0	Dp-Curb	6	24	Sag	....	0.02	0.02	....	1.56	n/a	n/a	1.56	77.9	Sag
3-2	EX CI	3.68	30	3.77	0.68	9.43	0	9.43	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.42	n/a	n/a	0.67	30.51	Sag
4-1	4-2	0.46	7.1	6.77	0.68	2.12	0	2.12	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.04	n/a	n/a	0.29	11.26	....
4-2	4-3	2.8	8.7	6.39	0.68	12.17	0	12.17	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.53	n/a	n/a	0.78	36.16	4-6L
4-3	4-4	0	0	0	0.68	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	Sag
4-4	4-5	0.34	5.7	7.14	0.68	1.65	0.66	2.31	0	Curb	5.8	8	0.021	2	0.05	0.02	9	0.96	0	0	0.21	7.29	Sag
4-5	4-6L	0.21	6.6	6.9	0.68	0.98	2.16	3.14	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.1	n/a	n/a	0.35	14.66	....
4-6L	4-6R	0.25	6.6	6.9	0.68	1.17	0	1.17	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.96	n/a	n/a	0.21	7.59	4-6L
4-6L	4-6B	1.62	7.7	6.62	0.68	7.29	0	7.29	0	Hdwall	....	....	....	....	....	....	....	....	....	....	....	....	4-7
4-6L	4-7	0.46	7.5	6.67	0.68	2.09	6.64	6.56	2.16	Curb	5.8	8	0.01	2	0.05	0.02	9	1.1	0.23	8.32	0.35	14.69	4-8
4-7	4-8	0.21	6.5	6.92	0.68	0.99	0	0.99	0	Curb	5.8	8	0.018	2	0.05	0.02	9	0.91	0	0	0.16	5.06	12-1
4-8	4-9	0.1	5.7	7.14	0.68	0.49	0	0.49	0	Curb	5.8	5	0.033	2	0.05	0.02	9	0.86	0	0	0.11	2.72	11-5
4-9	4-10	0.28	5.5	7.2	0.68	1.37	0	1.3	0.07	Curb	5.8	5	0.033	2	0.05	0.02	9	0.91	0.06	1.12	0.16	5.12	5-1
4-4	5-1	0.21	6.5	6.92	0.68	0.99	0	0.99	0	Curb	5.8	5	0.018	2	0.05	0.02	9	0.91	0	0	0.16	5.06	Sag
5-1	5-2	0.16	5.8	7.11	0.68	0.77	0	0.77	0	Curb	5.8	5	0.015	2	0.05	0.02	9	0.9	0	0	0.15	4.67	Sag
5-2	5-3L	0.2	7.1	6.77	0.68	0.92	0	0.92	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.94	n/a	n/a	0.19	6.46	....
5-3L	5-3R	0.27	6.5	6.92	0.68	1.27	0	1.27	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.97	n/a	n/a	0.22	8.01	5-3L
5-3L	5-4	1.2	7.2	6.74	0.68	5.5	0	5.5	0	Hdwall	....	....	....	....	....	....	....	....	....	....	....	....	5-4
5-3L	5-4	0.12	5.6	7.17	0.68	0.58	0	0.58	0	Curb	5.8	5	0.014	2	0.05	0.02	9	0.89	0	0	0.14	4.08	10-1
5-4	5-5	0.18	7.4	6.69	0.68	0.82	0	0.82	0	Curb	5.8	5	0.014	2	0.05	0.02	9	0.91	0	0	0.16	4.9	Sag
5-5	5-6	0.16	7.8	6.6	0.68	0.72	0	0.72	0	Curb	5.8	5	0.013	2	0.05	0.02	9	0.9	0	0	0.15	4.66	4-5
5-6	5-7	2.34	9.2	6.28	0.68	10	0	10	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.35	n/a	n/a	0.35	17.56	1-4
5-1	6-1	0.66	7.1	6.77	0.68	3.04	0	2.38	0.66	Curb	5.8	5	0.018	2	0.05	0.02	9	0.98	0.14	4.06	0.23	8.49	1-4
5-2	7-1	0.18	6.7	6.87	0.68	0.84	0	0.84	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.92	0	0	0.17	5.28	6-1
7-1	7-2	0.3	6.7	6.87	0.68	1.4	0	1.4	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.94	0	0	0.19	6.74	9-1L
5-2	8-1	0.21	6.6	6.9	0.68	0.98	0	0.98	0	Curb	5.8	5	0.013	2	0.05	0.02	9	0.92	0	0	0.17	5.48	8-2
8-1	8-2	0.76	6.5	6.92	0.68	3.58	0	2.74	0.84	Curb	5.8	5	0.013	2	0.05	0.02	9	1	0.16	5.05	0.25	9.74	....
8-2	8-3	0	0	0	0.68	0	0	0	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.75	0	0	0	0	Sag
8-3	8-4	0.88	6.7	6.87	0.68	4.11	0	4.11	0	Hdwall	....	....	....	....	....	....	....	....	....	....	....	....	Sag
5-3	9-1L	1.31	6.6	6.9	0.68	6.14	0.84	6.98	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.31	n/a	n/a	0.56	24.96	9-1L
9-1L	9-1R	0.96	6.8	6.84	0.68	4.47	0	4.47	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.18	n/a	n/a	0.43	18.54	4-7
5-4	10-1	0.28	5.6	7.17	0.68	1.36	0	1.36	0	Curb	5.8	5	0.014	2	0.05	0.02	9	0.94	0.02	0.32	0.19	6.3	4-7
4-8	12-1	2.72	7.7	6.62	0.68	12.25	0.07	7.22	5.1	Curb	5.8	8	0.018	2	0.05	0.02	9	1.11	0.27	10.54	0.36	14.98	12-2
12-1	12-2	1.59	7.4	6.69	0.68	7.24	0.21	5.91	1.54	Curb	5.8	8	0.011	2	0.05	0.02	9	1.08	0.2	7.03	0.33	13.54	Sag
12-2	12-3	0.41	8.7	6.39	0.68	1.78	0	1.57	0.21	Curb	5.8	5	0.032	2	0.05	0.02	9	0.93	0.08	1.68	0.18	5.87	....
12-3	12-4	0.19	6.5	6.92	0.68	0.89	0	0.89	0	Dp-Curb	6	24	Sag	....	0.02	0.02	....	0.05	n/a	n/a	0.05	2.68	....
12-4	12-5	21.58	14.8	5.3	0.51	58.28	0	58.28	0	Hdwall	....	....	....	....	....	....	....	....	....	....	....	....	Sag
11-1	11-2	0	0	0	0.68	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	Sag
11-2	11-3	0.43	7.3	6.72	0.68	1.96	0	1.96	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.02	n/a	n/a	0.27	10.71	11-6R
11-3	11-4	0.13	5.6	7.17	0.68	0.63	0	0.63	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.91	n/a	n/a	0.16	5.04	Sag
11-4	11-5	0.12	5.8	7.11	0.68	0.58	0	0.58	0	Curb	5.8	6	0.011	2	0.05	0.02	9	0.9	0	0	0.15	4.34	Sag
11-5	11-6R	0.24	7.5	6.67	0.68	1.09	1.14	2.23	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.04	n/a	n/a	0.29	11.65	11-6R
11-6R	11-6L	0.53	7.9	6.57	0.68	2.37	0	2.37	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.05	n/a	n/a	0.3	12.14	11-7
11-6R	11-7	0.43	8.8	6.37	0.68	1.86	2.44	3.16	1.14	Curb	5.8	5	0.01	2	0.05	0.02	9	1.03	0.19	6.26	0.28	11.08	Sag
11-7	11-8	0.21	6.8	6.84	0.68	0.98	0.41	1.39	0	Curb	5.8	6	0.01	2	0.05	0.02	9	0.95	0	0	0.2	6.86	11-9
11-8	11-9	0.94	7.9	6.57	0.68	4.2	0	4.2	0	Curb	5.8	6	Sag	2	0.05	0.02	9	1.14	n/a	n/a	0.39	16.53	11-10
11-9	11-10	0.17	6.1	7.03	0.68	0.81	0.01	0.82	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.91	0	0	0.16	5.23	11-11
11-10	11-11	0.22	5.9	7.08	0.68	1.06	0.53	1.58	0.01	Curb	5.8	5	0.011	2	0.05	0.02	9	0.95	0.03	0.69	0.2	7.14	11-12
11-11	11-12	0.47	5.9	7.08	0.68	2.26	0.19	2.21	0.25	Curb	5.8	5	0.011	2	0.05	0.02	9	0.98	0.11	2.46	0.23	8.61	11-13
11-12	11-13	0.38	5.6	7.17	0.68	1.85	0.35	2.01	0.19	Curb	5.8	5	0.013	2	0.05	0.02	9	0.97	0.1	1.92	0.22	7.93	11-14
11-13	11-14	0.4	5.7	7.14	0.68	1.94	0.17	1.76	0.35	Curb	5.8	5	0.032	2	0.05	0.02	9	0.94	0.1	2.1	0.19	6.36	11-7
11-14	11-15	0.35	6.7	6.87	0.68	1.64	0	1.47	0.17	Curb	5.8	5	0.035	2	0.05	0.02	9	0.92	0.08	1.52	0.17	5.51	11-8
11-9	13-1	1.42	8.4	6.46	0.68	6.24	0	3.8	2.44	Curb	5.8	5	0.011	2	0.05	0.02	9	1.06	0.23	8.59	0.31	12.62	Sag
11-10	14-1	0.61	6.																				

10-YEAR PIPE																			
D.S. Str.	U.S. Str.	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfallInt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)
																			HGLUp (ft)
																			Grnd/RimDn (ft)
																			Grnd/RimUp (ft)
1-1	1-2	54.4	0.8	12.47	0.68	0.54	8.48	7.1	11.2	5.9	49.89	49.89	358.06	6.14	48	3.68	996.00	998.00	999.03
1-2	1-3	221.1	0.23	11.67	0.68	0.16	7.94	6.3	10.9	5.9	47.19	47.19	234.95	10.93	48	1.58	1000.50	1004.00	1001.72
1-3	1-4	238.75	0.97	11.44	0.68	0.66	7.78	6.5	10.5	6	46.87	46.87	119.71	9.65	42	0.84	1005.00	1007.00	1006.52
1-4	1-5	252.57	0.2	10.47	0.68	0.14	7.12	6.3	10	6.1	43.58	43.58	116.39	8.65	42	0.79	1007.50	1009.50	1009.14
1-5	1-6	261.5	7.54	10.27	0.68	5.13	6.98	9.3	9.5	6.2	43.46	43.46	102.3	8.8	42	0.61	1010.00	1011.60	1011.59
1-6	1-7	119.52	0.76	1.41	0.68	0.52	0.96	6.2	9.1	6.3	6.04	6.04	25.52	5.63	24	0.75	1013.10	1014.00	1013.76
1-7	1-8	229.48	0.2	0.65	0.68	0.14	0.44	5.2	8.5	6.4	2.84	2.84	12.7	6.27	15	2.29	1014.75	1020.00	1015.15
1-8	1-9	157.61	0.45	0.45	0.68	0.31	0.31	8.1	8.1	6.5	2	2	15.68	6.25	15	3.49	1020.50	1026.00	1020.80
1-5	2-1	374.86	1.32	1.32	0.68	0.9	0.9	7.3	7.3	6.7	6.03	6.03	42.68	6.58	24	2.11	1013.10	1021.00	1013.65
3-1	3-2	49.23	24.42	28.1	0.68	16.61	19.11	21.9	30.2	3.8	71.76	71.76	186.41	7.63	42	2.03	996.00	997.00	1000.13
3-2	EX Cl	72.67	3.68	3.68	0.68	2.5	2.5	30	30	3.8	9.43	9.43	57.54	5.82	18	17.77	998.00	1010.91	1001.59
4-1	4-2	44.43	0.46	43.6	0.68	0.31	25.98	7.1	17.8	4.9	127.29	127.29	508	6.48	60	2.25	996.00	997.00	1011.81
4-2	4-3	183.92	2.8	43.14	0.68	1.9	25.67	8.7	17.3	5	127.28	127.28	305.8	6.48	60	0.82	1006.00	1007.50	1012.85
4-3	4-4	305.78	0	40.34	0.68	0	23.76	0	16.5	5.1	120.24	120.24	256.16	6.5	60	0.57	1007.75	1009.50	1013.44
4-4	4-5	97.35	0.34	29.96	0.68	0.23	16.7	5.7	16.3	5.1	85.03	85.03	315.15	7.19	54	2.57	1010.50	1013.00	1014.37
4-5	4-6L	168.4	0.21	29.62	0.68	0.14	16.47	6.6	16	5.1	84.45	84.45	143.9	10.48	48	0.59	1013.50	1014.50	1015.70
4-6L	4-6R	1	0.25	0.25	0.68	0.17	0.17	6.6	6.6	6.9	1.17	1.17	1320.46	1.37	48	50	1014.50	1015.00	1017.28
4-6L	4-6B	50	1.62	1.62	0.68	1.1	1.1	7.7	7.7	6.6	7.29	7.29	33.44	18	6	1017.00	1020.00	1017.48	
4-6L	4-7	65.42	0.46	27.54	0.68	0.31	15.06	7.5	15.9	5.1	77.43	77.43	163.26	9.58	48	0.76	1015.00	1015.50	1017.28
4-7	4-8	56.62	0.21	27.08	0.68	0.14	14.75	6.5	15.8	5.2	76.02	76.02	175.49	9.81	48	0.88	1016.00	1016.50	1018.16
4-8	4-9	293.56	0.1	0.38	0.68	0.07	0.26	5.7	5.8	7.1	1.84	1.84	32.34	4.42	24	2.04	1019.50	1025.50	1019.82
4-9	4-10	58.16	0.28	0.28	0.68	0.19	0.19	5.5	5.5	7.2	1.37	1.37	20.97	3.39	24	0.86	1026.00	1026.50	1026.35
4-4	5-1	33.47	0.21	10.38	0.68	0.14	7.06	6.5	12	5.7	40.53	40.53	228.24	3.24	48	1.49	1010.00	1010.50	1014.37
5-1	5-2	237.82	0.16	9.51	0.68	0.11	6.47	5.8	11.2	5.9	38.09	38.09	94.82	4.79	42	0.53	1011.00	1012.25	1014.55
5-2	5-3L	196.77	0.2	7.02	0.68	0.14	4.77	7.1	10.6	6	28.66	28.66	47.55	5.44	36	0.51	1012.75	1013.75	1015.66
5-3L	5-3R	1	0.27	0.27	0.68	0.18	0.18	6.5	6.5	6.9	1.27	1.27	613.08	1.54	36	50	1013.75	1014.25	1015.48
5-3L	5-3B	25	1.2	1.2	0.68	0.82	0.82	7.2	7.2	6.7	5.5	5.5	16.79	8.87	15	4	1016.00	1017.00	1016.49
5-3L	5-4	262.42	0.12	3.08	0.68	0.08	2.09	5.6	9.8	6.2	12.91	12.91	40.31	5.43	30	0.57	1014.25	1015.75	1015.48
5-4	5-5	108.31	0.18	2.68	0.68	0.12	1.82	7.4	9.5	6.2	11.34	11.34	44.37	6.42	30	0.69	1016.25	1017.00	1017.11
5-5	5-6	65.85	0.16	2.5	0.68	0.11	1.7	7.8	9.3	6.3	10.64	10.64	19.71	5.99	24	0.76	1017.50	1018.00	1018.55
5-6	5-7	45.64	2.34	2.34	0.68	1.59	1.59	9.2	9.2	6.3	10	10	30.78	7.1	24	1.1	1018.50	1019.00	1019.28
5-1	6-1	86.62	0.66	0.66	0.68	0.45	0.45	7.1	7.1	6.8	3.04	3.04	32.8	2.88	18	5.77	1013.00	1018.00	1014.55
5-2	7-1	282.43	0.18	0.48	0.68	0.12	0.33	6.7	6.9	6.8	2.22	2.22	19.56	2.47	18	2.05	1014.20	1020.00	1015.66
7-1	7-2	51.16	0.3	0.3	0.68	0.2	0.2	6.7	6.7	6.9	1.4	1.4	6.38	3.76	15	0.98	1020.50	1021.00	1020.90
5-2	8-1	118.16	0.21	1.85	0.68	0.14	1.26	6.6	7.8	6.6	8.31	8.31	82.27	3.9	24	7.83	1013.75	1023.00	1015.66
8-1	8-2	49.1	0.76	1.64	0.68	0.52	1.12	6.5	7.6	6.6	7.4	7.4	27.95	6.22	24	1.53	1023.50	1024.25	1024.20
8-2	8-3	306.93	0	0.88	0.68	0	0.6	0	6.8	6.8	4.09	4.09	16.98	6.18	18	1.55	1024.75	1029.50	1025.25
8-3	8-4	76.99	0.88	0.88	0.68	0.6	0.6	6.7	6.7	6.9	4.11	4.11	51.6	10.95	18	14.29	1030.00	1041.00	1030.29
5-3	9-1L	64.92	1.31	2.27	0.68	0.89	1.54	6.6	6.8	6.8	10.56	10.56	16.03	11.34	15	6.16	1016.00	1020.00	1016.74
9-1L	9-1R	1	0.96	0.96	0.68	0.65	0.65	6.8	6.8	6.8	4.47	4.47	45.66	4.34	15	50	1020.00	1020.50	1021.20
5-4	10-1	67.91	0.28	0.28	0.68	0.19	0.19	5.6	5.6	7.2	1.36	1.36	21.46	6.54	15	11.04	1017.50	1025.00	1017.71
4-8	12-1	43.15	2.72	26.49	0.68	1.85	14.34	7.7	15.7	5.2	74.1	74.1	119.77	9.3	48	0.7	1017.00	1017.30	1019.28
12-1	12-2	51.21	1.59	23.77	0.68	1.08	12.5	7.4	15.6	5.2	64.71	64.71	184.52	8.89	48	0.98	1017.80	1018.30	1019.90
12-2	12-3	362.01	0.41	22.18	0.68	0.28	11.41	8.7	14.9	5.3	60.2	60.2	223.81	8.98	48	1.44	1018.80	1024.00	1020.73
12-3	12-4	39.58	0.19	21.77	0.68	0.13	11.14	6.5	14.9	5.3	58.84	58.84	147	9.94	42	1.26	1024.50	1025.00	1026.34
12-4	12-5	51.54	21.58	21.58	0.51	11.01	11.01	14.8	14.8	5.3	58.28	58.28	85.4	10.85	36	0.97	1025.50	1026.00	1027.40
11-1	11-2	53.05	0	17.17	0.68	0	10.71	0	16.6	5.1	54.09	54.09	464.9	2.76	60	1.89	996.00	997.00	1011.41
11-2	11-3	176.56	0.43	17.17	0.68	0.29	10.71	7.3	15.7	5.2	55.36	55.36	825.75	3.36	60	5.95	997.50	1008.00	1011.44
11-3	11-4	99	0.13	16.74	0.68	0.09	10.42	5.6	15.5	5.2	54.19	54.19	145.37	7.07	48	0.61	1009.00	1009.60	1011.51
11-4	11-5	107.78	0.12	16.61	0.68	0.08	10.33	5.8	15.2	5.2	54.05	54.05	145.02	8.21	48	0.6	1009.85	1010.50	1011.81
11-5	11-6R	179.77	0.24	16.49	0.68	0.16	10.25	7.5	14.9	5.3	54.17	54.17	107.14	8.08	48	0.56	1011.00	1012.00	1013.01
11-6R	11-6L	1	0.53	0.53	0.68	0.36	0.36	7.9	7.9	6.6	2.37	2.37	1015.74	1.73	48	50	1012.00	1012.50	1014.21
11-6R	11-7	100.6	0.43	15.72	0.68	0.29	9.72	8.8	14.7	5.3	51.7	51.7	161.24	7.96	48	0.75	1012.25	1013.00	1014.21
11-7	11-8	36.6	0.21	15.29	0.68	0.14	9.43	6.8	14.6	5.3	50.23	50.23	152.87	9.52	42	1.37	1013.50	1014.00	1015.16
11-8	11-9	49.69	0.94	15.08	0.68	0.64	9.29	7.9	14.5	5.3	49.6	49.6	100.92	9.12	42	1.01	1014.50	1015.00	1016.23
11-9	11-10	130.64	0.17	12.72	0.68	0.12	7.68	6.1	14.2	5.4	41.34	41.34	114.43	8.1	42	0.77	1015.50	1016.50	1017.20
11-10	11-11	141.18	0.22	11.94	0.68	0.15	7.15	5.9	14	5.4	38.79	38.79	134.81	8.48	42	1.06	1017.00	1018.50	1018.50
11-11	11-12	49.3	0.47	9.69	0.68	0.32	5.62	5.9	13.8	5.4	30.58	30.58	67.17	8.06	36	1.01	1019.00	1019.50	1020.43
11-12	11-13	133.59	0.38	9.22	0.68	0.26	5.3	5.6	13.6	5.5	29.06	29.06	75.01	8.38	36	0.75	1020.00	1021.00	1021.30
11-13	11-14	125.5	0.4	0.75	0.68	0.27	0.51	5.7	6.9	6.8	3.48	3.48	22.73	2.8	24	0.6	1021.50	1022.25	1022.74
11-14	11-15	51.42	0.35	0.35	0.68	0.24	0.24	6.7	6.7	6.9	1.64	1.64	27.32	3.97	24	1.46	1022.75	1023.50	1023.08
11-9	13-1	55.98	1.42	1.42	0.68	0.97	0.97	8.4	8.4										

100-YEAR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	Bypass Str.
1-1	1-2	0.8	7.1	11.96	0.68	6.51	0	6.51	0	Curb	5.8	6	Sag	2	0.02	0.02	9	1.19	n/a	n/a	0.44	22.13	Sag
1-2	1-3	0.23	6.3	12.3	0.68	1.92	0	1.92	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.12	n/a	n/a	0.12	5.85	Sag
1-3	1-4	0.97	6.5	12.21	0.68	8.06	0	8.06	0	Dp-Curb	6	20	Sag	.....	0.02	0.02	.....	0.26	n/a	n/a	0.26	13.1	Sag
1-4	1-5	0.2	6.3	12.3	0.68	1.67	0.26	1.93	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.12	n/a	n/a	0.12	5.86	Sag
1-5	1-6	7.54	9.3	11.13	0.68	57.06	0	57.06	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	2.01	n/a	n/a	2.01	100.59	Sag
1-6	1-7	0.76	6.2	12.34	0.68	6.38	0	6.38	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.26	n/a	n/a	0.26	13.01	Sag
1-7	1-8	0.2	5.2	12.8	0.68	1.74	0	1.74	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.11	n/a	n/a	0.11	5.47	Offsite
1-8	1-9	0.45	8.1	11.57	0.68	3.54	0	2.67	0.87	Curb	5.8	5	0.015	2	0.05	0.02	9	1	0.16	4.97	0.25	9.41	Sag
1-5	2-1	1.32	7.3	11.88	0.68	10.66	0	10.66	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.37	n/a	n/a	0.37	18.33	Sag
3-1	3-2	24.42	21.9	8.06	0.68	133.86	0	133.86	0	Dp-Curb	6	24	Sag	.....	0.02	0.02	.....	4.56	n/a	n/a	4.56	228	Sag
3-2	EX Cl	3.68	30	6.9	0.68	17.27	0	17.27	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.72	n/a	n/a	0.97	45.67	Sag
4-1	4-2	0.46	7.1	11.96	0.68	3.74	0	3.74	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.14	n/a	n/a	0.39	16.47	.....
4-2	4-3	2.8	8.7	11.34	0.68	21.6	0	21.6	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.87	n/a	n/a	1.12	53.02	4-6L
4-3	4-4	0	0	0	0.68	0	.....	.....	.....	MH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sag
4-4	4-5	0.34	5.7	12.57	0.68	2.91	2.15	4.29	0.76	Curb	5.8	8	0.021	2	0.05	0.02	9	1.01	0.14	4.23	0.26	10.18	Sag
4-5	4-6L	0.21	6.6	12.17	0.68	1.74	11.97	13.71	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.59	n/a	n/a	0.84	39.15	.....
4-6L	4-6R	0.25	6.6	12.17	0.68	2.07	0	2.07	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.03	n/a	n/a	0.28	11.09	4-6L
4-6L	4-6B	1.62	7.7	11.72	0.68	12.91	0	12.91	0	Hdwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4-7
4-6L	4-7	0.46	7.5	11.8	0.68	3.69	18.05	10.54	11.21	Curb	5.8	8	0.01	2	0.05	0.02	9	1.23	0.38	16.2	0.48	20.92	4-8
4-7	4-8	0.21	6.5	12.21	0.68	1.74	0	1.74	0	Curb	5.8	8	0.018	2	0.05	0.02	9	0.94	0	0	0.19	6.65	12-1
4-8	4-9	0.1	5.7	12.57	0.68	0.85	0	0.85	0	Curb	5.8	5	0.033	2	0.05	0.02	9	0.89	0	0	0.14	3.96	11-5
4-9	4-10	0.28	5.5	12.66	0.68	2.41	0	1.9	0.51	Curb	5.8	5	0.033	2	0.05	0.02	9	0.94	0.12	2.81	0.19	6.71	5-1
4-4	5-1	0.21	6.5	12.21	0.68	1.74	0	1.65	0.1	Curb	5.8	5	0.018	2	0.05	0.02	9	0.94	0.07	1.41	0.19	6.66	Sag
5-1	5-2	0.16	5.8	12.52	0.68	1.36	0	1.36	0	Curb	5.8	5	0.015	2	0.05	0.02	9	0.93	0.02	0.43	0.18	6.19	Sag
5-2	5-3L	0.2	7.1	11.96	0.68	1.63	0	1.63	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1	n/a	n/a	0.25	9.45	.....
5-3L	5-3R	0.27	6.5	12.21	0.68	2.24	0	2.24	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.04	n/a	n/a	0.29	11.7	5-3L
5-3L	5-3B	1.2	7.2	11.92	0.68	9.73	0	9.73	0	Hdwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5-4
5-3L	5-4	0.12	5.6	12.61	0.68	1.03	0.01	1.04	0	Curb	5.8	5	0.014	2	0.05	0.02	9	0.92	0	0	0.17	5.52	10-1
5-4	5-5	0.18	7.4	11.84	0.68	1.45	0	1.44	0.01	Curb	5.8	5	0.014	2	0.05	0.02	9	0.94	0.03	0.6	0.19	6.47	Sag
5-5	5-6	0.16	7.8	11.68	0.68	1.27	0	1.27	0	Curb	5.8	5	0.013	2	0.05	0.02	9	0.93	0	0	0.18	6.19	4-5
5-6	5-7	2.34	9.2	11.16	0.68	17.76	0	17.76	0	Dp-Curb	6	16	Sag	.....	0.02	0.02	.....	0.52	n/a	n/a	0.52	25.76	1-4
5-1	6-1	0.66	7.1	11.96	0.68	5.37	0.05	3.27	2.15	Curb	5.8	5	0.018	2	0.05	0.02	9	1.03	0.21	7.31	0.28	10.81	1-4
5-2	7-1	0.18	6.7	12.13	0.68	1.48	0	1.48	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.95	0.02	0.34	0.2	6.91	6-1
7-1	7-2	0.3	6.7	12.13	0.68	2.47	0	2.22	0.25	Curb	5.8	5	0.011	2	0.05	0.02	9	0.98	0.11	2.52	0.23	8.64	9-1L
5-2	8-1	0.21	6.6	12.17	0.68	1.74	0	1.69	0.05	Curb	5.8	5	0.013	2	0.05	0.02	9	0.95	0.06	1.18	0.2	7.15	8-2
8-1	8-2	0.76	6.5	12.21	0.68	6.31	0	3.72	2.59	Curb	5.8	5	0.013	2	0.05	0.02	9	1.06	0.23	8.5	0.31	12.26	.....
8-2	8-3	0	0	0	0.68	0	0	0	0	Curb	5.8	5	0.011	2	0.05	0.02	9	0.75	0	0	0	0	Sag
8-3	8-4	0.88	6.7	12.13	0.68	7.26	0	7.26	0	Hdwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sag
5-3	9-1L	1.31	6.6	12.17	0.68	10.84	2.87	13.71	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.59	n/a	n/a	0.84	39.16	9-1L
9-1L	9-1R	0.96	6.8	12.08	0.68	7.89	0	7.89	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.35	n/a	n/a	0.6	27.08	4-7
5-4	10-1	0.28	5.6	12.61	0.68	2.4	0	2.12	0.28	Curb	5.8	5	0.014	2	0.05	0.02	9	0.97	0.11	2.5	0.22	8.1	4-7
4-8	12-1	2.72	7.7	11.72	0.68	21.68	0.51	9.59	12.59	Curb	5.8	8	0.018	2	0.05	0.02	9	1.19	0.36	15.11	0.44	18.83	12-2
12-1	12-2	1.59	7.4	11.84	0.68	12.8	0.92	8.26	5.46	Curb	5.8	8	0.011	2	0.05	0.02	9	1.15	0.3	11.97	0.4	17.2	Sag
12-2	12-3	0.41	8.7	11.34	0.68	3.16	0	2.24	0.92	Curb	5.8	5	0.032	2	0.05	0.02	9	0.96	0.14	4.17	0.21	7.63	.....
12-3	12-4	0.19	6.5	12.21	0.68	1.58	0	1.58	0	Dp-Curb	6	24	Sag	.....	0.02	0.02	.....	0.08	n/a	n/a	0.08	3.91	.....
12-4	12-5	21.58	14.8	9.52	0.51	104.73	0	104.73	0	Hdwall	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sag
11-1	11-2	0	0	0	0.68	0	.....	.....	.....	MH	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Sag
11-2	11-3	0.43	7.3	11.88	0.68	3.47	0	3.47	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.12	n/a	n/a	0.37	15.67	11-6R
11-3	11-4	0.13	5.6	12.61	0.68	1.11	0	1.11	0	Curb	5.8	5	Sag	2	0.05	0.02	9	0.96	n/a	n/a	0.21	7.34	Sag
11-4	11-5	0.12	5.8	12.52	0.68	1.02	0.1	1.12	0	Curb	5.8	6	0.011	2	0.05	0.02	9	0.93	0	0	0.18	6.07	Sag
11-5	11-6R	0.24	7.5	11.8	0.68	1.93	4.87	6.79	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.3	n/a	n/a	0.55	24.51	11-6R
11-6R	11-6L	0.53	7.9	11.64	0.68	4.2	0	4.2	0	Curb	5.8	5	Sag	2	0.05	0.02	9	1.17	n/a	n/a	0.42	17.78	11-7
11-6R	11-7	0.43	8.8	11.31	0.68	3.31	6.35	4.79	4.87	Curb	5.8	5	0.01	2	0.05	0.02	9	1.12	0.29	11.65	0.37	15.28	Sag
11-7	11-8	0.21	6.8	12.08	0.68	1.73	1.63	3.04	0.32	Curb	5.8	6	0.01	2	0.05	0.02	9	1.01	0.12	3.12	0.26	10.02	11-9
11-8	11-9	0.94	7.9	11.64	0.68	7.44	0.55	7.99	0	Curb	5.8	6	Sag	2	0.05	0.02	9	1.32	n/a	n/a	0.57	25.39	11-10
11-9	11-10	0.17	6.1	12.39	0.68	1.43	1.71	2.59	0.55	Curb	5.8	5	0.011	2	0.05	0.02	9	1	0.14	4.22	0.25	9.56	11-11
11-10	11-11	0.22	5.9	12.48	0.68	1.87	3.29	3.44	1.71	Curb	5.8	5	0.011	2	0.05	0.02	9	1.04	0.21	7.37	0.29	11.69	11-12
11-11	11-12	0.47	5.9	12.48	0.68	3.99	1.6	3.59	2	Curb	5.8	5	0.011	2	0.05	0.02	9	1.05	0.22	7.89	0.3	12.08	11-13
11-12	11-13	0.38	5.6	12.61	0.68	3.26	1.59	3.25	1.6	Curb	5.8	5	0.013	2	0.05	0.02	9	1.03	0.2	6.89	0.28	11.03	11-14
11-13	11-14	0.4	5.7	12.57	0.68	3.42	0.79	2.61	1.59	Curb	5.8	5	0.032	2	0.05	0.02	9	0.98	0.17	5.56	0.23	8.63	11-7
11-14	11-15	0.35	6.7	12.13	0.68	2.89	0	2.1	0.79	Curb	5.8	5	0.035	2	0.05	0.02	9	0.95	0.13	3.7	0.2	7.19	11-8
11-9	13-1	1.42	8.4	11.45	0.68																		

100-YEAR PIPE																									
D.S. Str.	U.S. Str.	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfaInI	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)			
1-1	1-2	54.4	0.8	12.47	0.68	0.54	8.48	7.1	10.8	10.6	90.23	90.23	358.06	9.08	48	3.68	996.00	998.00	999.03	1000.88	0.00	1023.50			
1-2	1-3	221.1	0.23	11.67	0.68	0.16	7.94	6.3	10.5	10.7	85.15	85.15	234.95	13.14	48	1.58	1000.50	1004.00	1002.17	1006.80	1023.50	1024.80			
1-3	1-4	238.75	0.97	11.44	0.68	0.66	7.78	6.5	10.1	10.8	84.33	84.33	119.71	11.75	42	0.84	1005.00	1007.00	1007.17	1009.86	1024.80	1025.15			
1-4	1-5	252.57	0.2	10.47	0.68	0.14	7.12	6.3	9.7	11	78.14	78.14	116.39	10.46	42	0.79	1007.50	1009.50	1009.86	1012.26	1025.15	1024.50			
1-5	1-6	261.5	7.54	10.27	0.68	5.13	6.98	9.3	9.3	11.1	77.63	77.63	102.3	10.63	42	0.61	1010.00	1011.60	1012.28	1014.35	1024.50	1017.50			
1-6	1-7	119.52	0.76	1.41	0.68	0.52	0.96	6.2	9	11.2	10.78	10.78	25.52	5.41	24	0.75	1013.10	1014.00	1014.35	1015.18	1017.50	1019.25			
1-7	1-8	229.48	0.2	0.65	0.68	0.14	0.44	5.2	8.5	11.4	5.05	5.05	12.7	7.51	15	2.29	1014.75	1020.00	1015.30	1020.91	1019.25	1026.15			
1-8	1-9	157.61	0.45	0.45	0.68	0.31	0.31	8.1	8.1	11.6	3.54	3.54	15.68	7.31	15	3.49	1020.50	1026.00	1020.91	1026.76	1026.15	1031.39			
1-5	2-1	374.86	1.32	1.32	0.68	0.9	0.9	7.3	7.3	11.9	10.66	10.66	42.68	5.37	24	2.11	1013.10	1021.00	1014.35	1022.17	1017.50	1028.50			
3-1	3-2	49.23	24.42	28.1	0.68	16.61	19.11	21.9	30.1	6.9	131.56	131.56	186.41	13.68	42	2.03	996.00	997.00	1000.13	1000.63	0.00	1005.00			
3-2	EX Cl	72.67	3.68	3.68	0.68	2.5	2.5	30	30	6.9	17.27	17.27	57.54	9.83	18	17.77	998.00	1010.91	1004.93	1012.35	1005.00	1015.95			
4-1	4-2	44.43	0.46	43.6	0.68	0.31	25.98	7.1	17.1	9	233.5	233.5	508	11.89	60	2.25	996.00	997.00	1011.81	1012.02	0.00	1024.00			
4-2	4-3	183.92	2.8	43.14	0.68	1.9	25.67	8.7	16.8	9	232.15	232.15	305.8	11.82	60	0.82	1006.00	1007.50	1015.32	1016.19	1024.00	1024.00			
4-3	4-4	305.78	0	40.34	0.68	0	23.76	0	16.4	9.1	217.37	217.37	256.16	11.07	60	0.57	1007.75	1009.50	1017.27	1018.53	1024.00	1025.20			
4-4	4-5	97.35	0.34	29.96	0.68	0.23	16.7	5.7	16.2	9.2	153.44	153.44	315.15	9.65	54	2.57	1010.50	1013.00	1020.34	1020.94	1025.20	1024.65			
4-5	4-6L	168.4	0.21	29.62	0.68	0.14	16.47	6.6	16	9.2	152.19	152.19	143.9	12.11	48	0.59	1013.50	1014.50	1022.63	1023.75	1024.65	1023.56			
4-6L	4-6R	1	0.25	0.25	0.68	0.17	0.17	6.6	6.6	12.2	2.07	2.07	1320.46	0.16	48	50	1014.50	1015.00	1028.70	1028.70	1023.56	1023.56			
4-6L	4-6B	50	1.62	1.62	0.68	1.1	1.1	7.7	7.7	11.7	12.91	12.91	33.44	7.31	18	6	1017.00	1020.00	1028.70	1029.15	1023.56	0.00			
4-6L	4-7	65.42	0.46	27.54	0.68	0.31	15.06	7.5	15.9	9.3	139.47	139.47	163.26	11.1	48	0.76	1015.00	1015.50	1028.70	1029.06	1023.56	1023.72			
4-7	4-8	56.62	0.21	27.08	0.68	0.14	14.75	6.5	15.8	9.3	136.87	136.87	175.49	10.89	48	0.88	1016.00	1016.50	1031.50	1031.80	1023.72	1025.58			
4-8	4-9	293.56	0.1	0.38	0.68	0.07	0.26	5.7	6.8	12.1	3.13	3.13	32.34	1	24	2.04	1019.50	1025.50	1034.72	1034.77	1025.58	1033.03			
4-9	4-10	58.16	0.28	0.28	0.68	0.19	0.19	5.5	5.5	12.7	2.41	2.41	20.97	0.77	24	0.86	1026.00	1026.50	1034.79	1034.79	1033.03	1034.24			
4-4	5-1	33.47	0.21	10.38	0.68	0.14	7.06	6.5	11.9	10.3	72.64	72.64	228.24	5.78	48	1.49	1010.00	1010.50	1020.34	1020.39	1025.20	1025.48			
5-1	5-2	237.82	0.16	9.51	0.68	0.11	6.47	5.8	11.4	10.5	67.64	67.64	94.82	7.03	42	0.53	1011.00	1012.25	1020.95	1021.59	1025.48	1029.28			
5-2	5-3L	196.77	0.2	7.02	0.68	0.14	4.77	7.1	10.9	10.6	50.6	50.6	47.55	7.16	36	0.51	1012.75	1013.75	1023.29	1024.43	1029.28	1028.80			
5-3L	5-3R	1	0.27	0.27	0.68	0.18	0.18	6.5	6.5	12.2	2.24	2.24	613.08	0.32	36	50	1013.75	1014.25	1026.22	1026.22	1028.80	1028.80			
5-3L	5-3B	25	1.2	1.2	0.68	0.82	0.82	7.2	7.2	11.9	9.73	9.73	16.79	7.93	15	4	1016.00	1017.00	1026.22	1026.56	1028.80	0.00			
5-3L	5-4	262.42	0.12	3.08	0.68	0.08	2.09	5.6	10	10.9	22.84	22.84	40.31	4.65	30	0.57	1014.25	1015.75	1026.22	1026.70	1028.80	1033.29			
5-4	5-5	108.31	0.18	2.68	0.68	0.12	1.82	7.4	9.5	11.1	20.14	20.14	44.37	4.1	30	0.69	1016.25	1017.00	1027.21	1027.36	1033.29	1034.91			
5-5	5-6	65.85	0.16	2.5	0.68	0.11	1.7	7.8	9.3	11.1	18.9	18.9	19.71	6.02	24	0.76	1017.50	1018.00	1027.70	1028.16	1034.91	1035.23			
5-6	5-7	45.64	2.34	2.34	0.68	1.59	1.59	9.2	9.2	11.2	17.76	17.76	30.78	5.65	24	1.1	1018.50	1019.00	1028.61	1028.78	1035.23	1035.00			
5-1	6-1	86.62	0.66	0.66	0.68	0.45	0.45	7.1	7.1	12	5.37	5.37	32.8	3.04	18	5.77	1013.00	1018.00	1020.95	1021.08	1025.48	1026.13			
5-2	7-1	282.43	0.18	0.48	0.68	0.12	0.33	6.7	7.1	12	3.9	3.9	19.56	2.21	18	2.05	1014.20	1020.00	1023.29	1023.52	1029.28	1029.10			
7-1	7-2	51.16	0.3	0.3	0.68	0.2	0.2	6.7	6.7	12.1	2.47	2.47	6.38	2.02	15	0.98	1020.50	1021.00	1023.64	1023.71	1029.10	1029.20			
5-2	8-1	118.16	0.21	1.85	0.68	0.14	1.26	6.6	7.7	11.7	14.73	14.73	82.27	5.52	24	7.83	1013.75	1023.00	1023.29	1024.38	1029.28	1030.58			
8-1	8-2	49.1	0.76	1.64	0.68	0.52	1.12	6.5	7.6	11.7	13.1	13.1	27.95	7.4	24	1.53	1023.50	1024.25	1024.46	1025.55	1030.58	1030.58			
8-2	8-3	306.93	0	0.88	0.68	0	0.6	0	6.8	12.1	7.22	7.22	16.98	6.52	18	1.55	1024.75	1029.50	1025.55	1030.54	1030.58	1036.46			
8-3	8-4	76.99	0.88	0.88	0.68	0.6	0.6	6.7	6.7	12.1	7.26	7.26	51.6	9.11	18	14.29	1030.00	1041.00	1030.54	1042.04	1036.46	0.00			
5-3	9-1L	64.92	1.31	2.27	0.68	0.89	1.54	6.6	6.8	12.1	18.65	18.65	15.2	15	6.16	1016.00	1020.00	1026.22	1031.64	1028.80	1028.80				
9-1L	9-1R	1	0.96	0.96	0.68	0.65	0.65	6.8	6.8	12.1	7.89	7.89	45.66	6.43	15	50	1020.00	1020.50	1033.43	1033.45	1028.80	1028.80			
5-4	10-1	67.91	0.28	0.28	0.68	0.19	0.19	5.6	5.6	12.6	2.4	2.4	21.46	1.96	15	11.04	1017.50	1025.00	1027.21	1027.30	1033.29	1033.04			
4-8	12-1	43.15	2.72	26.49	0.68	1.85	14.34	7.7	15.7	9.3	133.37	133.37	119.77	10.61	48	0.7	1017.00	1017.30	1034.72	1035.09	1025.58	1025.61			
12-1	12-2	51.21	1.59	23.77	0.68	1.08	12.5	7.4	15.6	9.3	116.44	116.44	184.52	9.27	48	0.98	1017.80	1018.30	1036.91	1037.11	1025.61	1024.84			
12-2	12-3	362.01	0.41	22.18	0.68	0.28	11.41	8.7	14.9	9.5	108.29	108.29	223.81	8.62	48	1.44	1018.80	1024.00	1038.74	1039.96	1024.84	1035.35			
12-3	12-4	39.58	0.19	21.77	0.68	0.13	11.14	6.5	14.9	9.5	105.8	105.8	147	11	42	1.26	1024.50	1025.00	1041.63	1041.89	1035.35	1036.50			
12-4	12-5	51.54	21.58	21.58	0.51	11.01	11.01	14.8	14.8	9.5	104.73	104.73	85.4	14.82	36	0.97	1025.50	1026.00	1043.37	1044.13	1036.50	0.00			
11-1	11-2	53.05	0	17.17	0.68	0	10.71	0	15.7	9.3	99.49	99.49	464.9	5.07	60	1.89	996.00	997.00	1011.41	1011.46	0.00	1011.00			
11-2	11-3	176.56	0.43	17.17	0.68	0.29	10.71	7.3	15.3	9.4	100.69	100.69	825.75	6.22	60	5.95	997.50	1008.00	1011.52	1011.30	1011.00	1022.25			
11-3	11-4	99	0.13	16.74	0.68	0.09	10.42	5.6	15.1	9.4	98.34	98.34	145.37	10.26	48	0.61	1009.00	1009.60	1011.72	1012.60	1022.25	1023.75			
11-4	11-5	107.78	0.12	16.61	0.68	0.08	10.33	5.8	14.9	9.5	97.95	97.95	145.02	10.16	48	0.6	1009.85	1010.50	1012.60	1013.50	1023.75	1024.30			
11-5	11-6R	179.77	0.24	16.49	0.68	0.16	10.25	7.5	14.6	9.6	97.96	97.96	107.14	9.67	48	0.56	1011.00	1012.00	1014.01	1015.01	1024.30	1023.56			
11-6R	11-6L	1	0.53	0.53	0.68	0.36	0.36	7.9	7.9	11.6	4.2	4.2	1015.74	1.98	48	50	1012.00	1012.50	1015.86	1013.09	1023.56	1023.56			
11-6R	11-7	100.6	0.43	15.72	0.68	0.29	9.72	8.8	14.4	9.6															

