

VILLAGE AT VIEW HIGH

CONSTRUCTION PLANS

PART OF THE NW 1/4, SECTION 03-T.47-R.32

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

CONSTRUCTION AND DESIGN NOTES:

STREET & STORM SEWERS:

1 ~ STREET PAVEMENT SHALL CONSIST OF TYPE CG-1 CURBS WITH PAVEMENT PER TABLE LS-2 OF THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL

COLLECTOR STREET FOR KESSLER DRIVE AND VILLAGE PARK DR.

OPTION 1) 5.5" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 9" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

OPTION 2) 5.5" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER 6" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE REQUIREMENTS OF TABLE 2201.6-1

2 ~ RESIDENTIAL LOCAL STREETS SHALL BE PER APWA STANDARD FOR 50' R/W TYPICAL SECTION TABLE LS-2 SECTION 5200 (RESIDENTIAL LOCAL STREET). RESIDENTIAL COLLECTOR STREETS SHALL BE PER APWA STANDARD FOR 60' R/W TYPICAL SECTION TABLE LS-2 SECTION 5200 (RESIDENTIAL COLLECTOR).

3 ~ STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) AS APPROVED BY CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

4 ~ JUNCTION BOXES SHALL BE PER CITY OF LEE'S SUMMIT STANDARD DRAWING NO. JB-1. FIELD INLETS SHALL BE PER CITY OF LEE'S SUMMIT STANDARD DRAWING FI-1. TOEWALLS SHALL BE PER CITY OF LEE'S SUMMIT DRAWING NO. SD-35. STORM MANHOLES SHALL BE PER CITY OF LEE'S SUMMIT DETAIL SD-27. ROCK LINING AND RIP RAP SHALL BE PER CITY OF LEE'S SUMMIT.

WATER:

1 ~ THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT WATER UTILITIES DEPARTMENT AT 816.969.1900 AT LEAST 48 HOURS PRIOR TO CONNECTING TO ANY EXISTING WATER MAIN.

2 ~ ALL WATER MAINS SHALL COMPLY WITH ANSI/AWWA C150/A21.50 AND C151/A21.51, AND CITY OF LEE'S SUMMIT STANDARDS.

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

4 ~ GATE VALVES SHALL BE MUELLER NO. A 2380-5 HUB END "O" RING SEAL NON-RISING STEM. VALVES 12" OR LARGER SHALL BE BUTTERFLY VALVES MANUFACTURED BY THE HENRY PRATT COMPANY OR CITY ENGINEER APPROVED EQUAL. LEFT HAND OPENING. MINIMUM 200# TESTING AWWA.

5 ~ VALVE BOXES SHALL BE CLAY & BAILEY NO. P-108 OR CITY ENGINEER APPROVED EQUAL. ALL VALVE BOXES SHALL BE LOCATED OUT OF EXISTING OR PROPOSED PAVEMENT AREAS.

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

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

8 ~ THE MINIMUM SEPARATION BETWEEN THE PROPOSED WATER MAIN AND SANITARY OR STORM SEWERS IS AS FOLLOWS:

A ~ SANITARY SEWERS: HORIZONTAL = 10 FEET - VERTICAL = 18 INCHES

B ~ STORM SEWERS: HORIZONTAL = 5 FEET - VERTICAL = 18 INCHES

THESE SEPARATIONS SHALL PREVAIL OVER ANY DATA SHOWN IN THESE PLANS AND THE CONTRACTOR SHALL INSTALL BENDS OR OTHER FITTINGS AS NECESSARY TO ACHIEVE THE REQUIRED SEPARATIONS.

GENERAL NOTES:

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

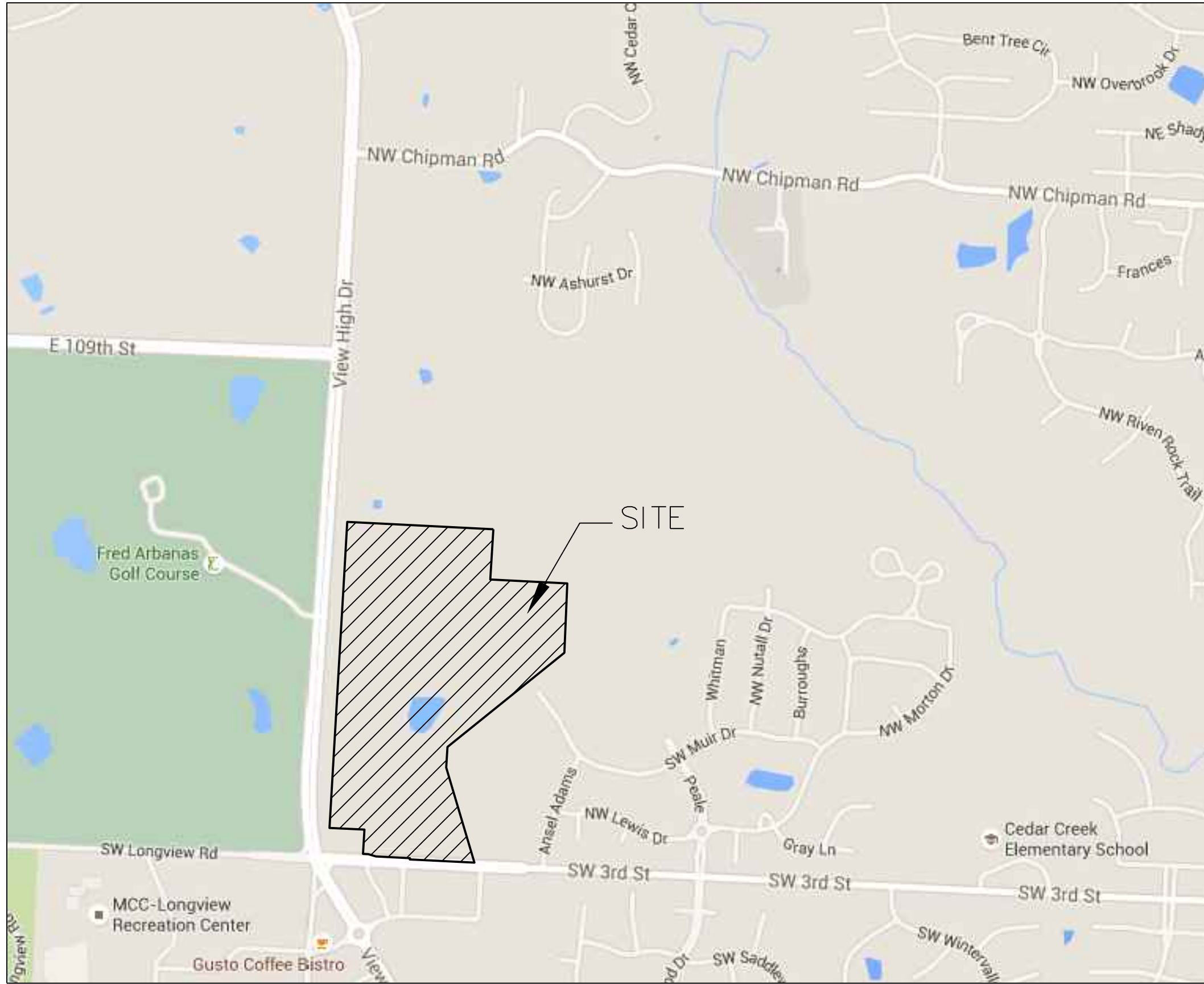
2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.

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 PUBLIC WORKS INSPECTION AT 816.969.1800 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.



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.

KCP&L ~ 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 PUBLIC WORKS INSPECTIONS ~ 969-1800

CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900

MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

LEGEND:

B/L ~ BUILDING SET-BACK

C/A ~ COMMON AREA

D/E ~ DRAINAGE EASEMENT

FND. ~ FOUND

L/E ~ LANDSCAPE EASEMENT

L.N.A. ~ LIMITS OF NO ACCESS

R/W ~ RIGHT OF WAY

SAN ~ SANITARY SEWER LINE

S/W ~ SIDEWALK

U/E ~ UTILITY EASEMENT

W ~ WATER LINE

ST ~ STORM SEWER LINE

SITE LOCATION MAP

INDEX OF SHEETS:

C.001 ~ COVER SHEET

C.050 ~ ESC PLAN 1 (PRE-CLEARING PLAN)

C.051 ~ ESC PLAN 2 (INACTIVE STABILIZATION AREA PLAN)

C.052 ~ ESC PLAN 3 (FINAL RESTORATION PLAN)

C.100 ~ SITE PLAN

C.200 ~ MASTER DRAINAGE PLAN SHEET 1 OF 2 GRADING PLAN

C.201 ~ MASTER DRAINAGE PLAN SHEET 2 OF 2 DRAINAGE AREA MAP

C.202 ~ STREET PLAN & PROFILE

C.203 ~ STREET PLAN & PROFILE

C.204 ~ INTERSECTION DETAILS & ADA RAMP PLAN

C.205 ~ INTERSECTION DETAILS & ADA RAMP PLAN

C.206 ~ DETENTION / BMP PLAN

C.207 ~ TRAFFIC CONTROL DETAILS

C.208 ~ TRAFFIC CONTROL DETAILS

C.300 ~ STORM SEWER GENERAL LAYOUT

C.301 ~ STORM SEWER PLAN & PROFILE

C.302 ~ STORM SEWER PLAN & PROFILE

C.303 ~ STORM SEWER PLAN & PROFILE

C.304 ~ STORM SEWER PLAN & PROFILE

ENGINEER'S CERTIFICATION:

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

CITY OF LEE'S SUMMIT, MISSOURI

APPROVED: _____ DATE: _____

BY: _____
CITY ENGINEER

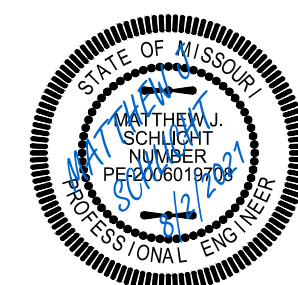
"AS-BUILT"

900.10
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Engineering Solutions
Professional Registration
Missouri
Engineering 200602198-D
Surveying 200500519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project:
View High Project
Issue Date:
November 22, 2019

Cover Sheet
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

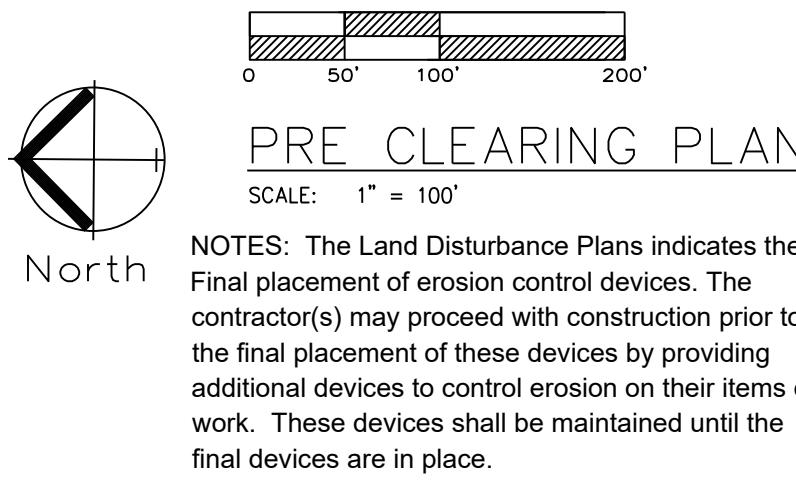


Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526

REVISIONS
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C.001



LEGEND

PHASE 1 SILT FENCE

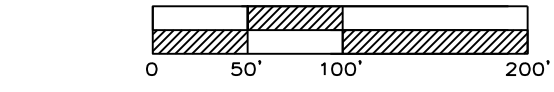
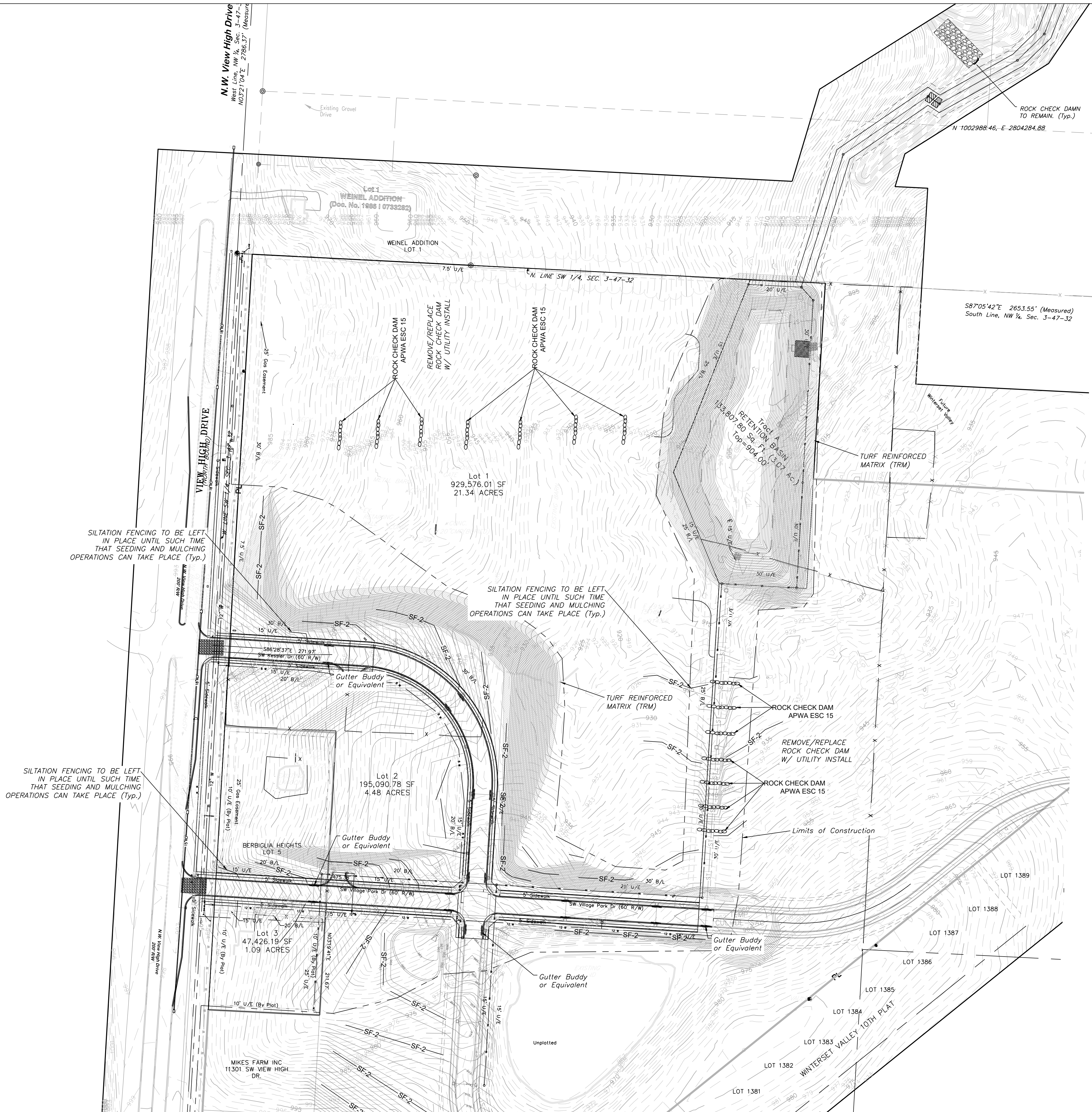
PHASE 2 SILT FENCE

DURING ALL PHASES OF CONSTRUCTION,
INACTIVE AREA STABILIZATION METHODS AS
DESCRIBED IN APWA SECTION 5111.3 SHALL BE
USED TO CONTROL EROSION AND SILTATION.

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FINAL RESTORATION PLAN

SCALE: 1" = 100'



NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

SEED AND MULCH NOTES:

All areas disturbed by construction activities shall be seeded and mulched. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix

Seed and Fertilizer Rate:
Mix I - Rye Grass / Blue Grass ----- 100 lbs. per Acre
Mix II - Tall Fescue / Blue Grass ----- 195 lbs. per Acre
Lime ----- 2000 lbs per Acre (50 lbs. per 1000 sq. ft.)
Fertilizer ----- 800 to 1200 lbs per Acre (25 lbs per 1000 sq. ft.)

During the dates December 15th through May 31 ALL lime fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime fertilizer, seed and mulch shall be applied at the following rates:
Lime - 100% of specified quantity
Fertilizer - 75% of the specified quantity
Seed - 50% of the specified quantity
Mulch - 100% of the specified quantity

Mulch shall be Vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided

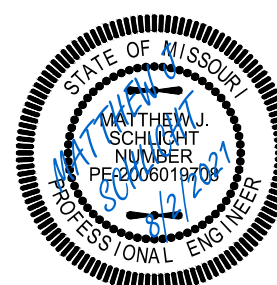


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Village At View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

Final Restoration Plan
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri



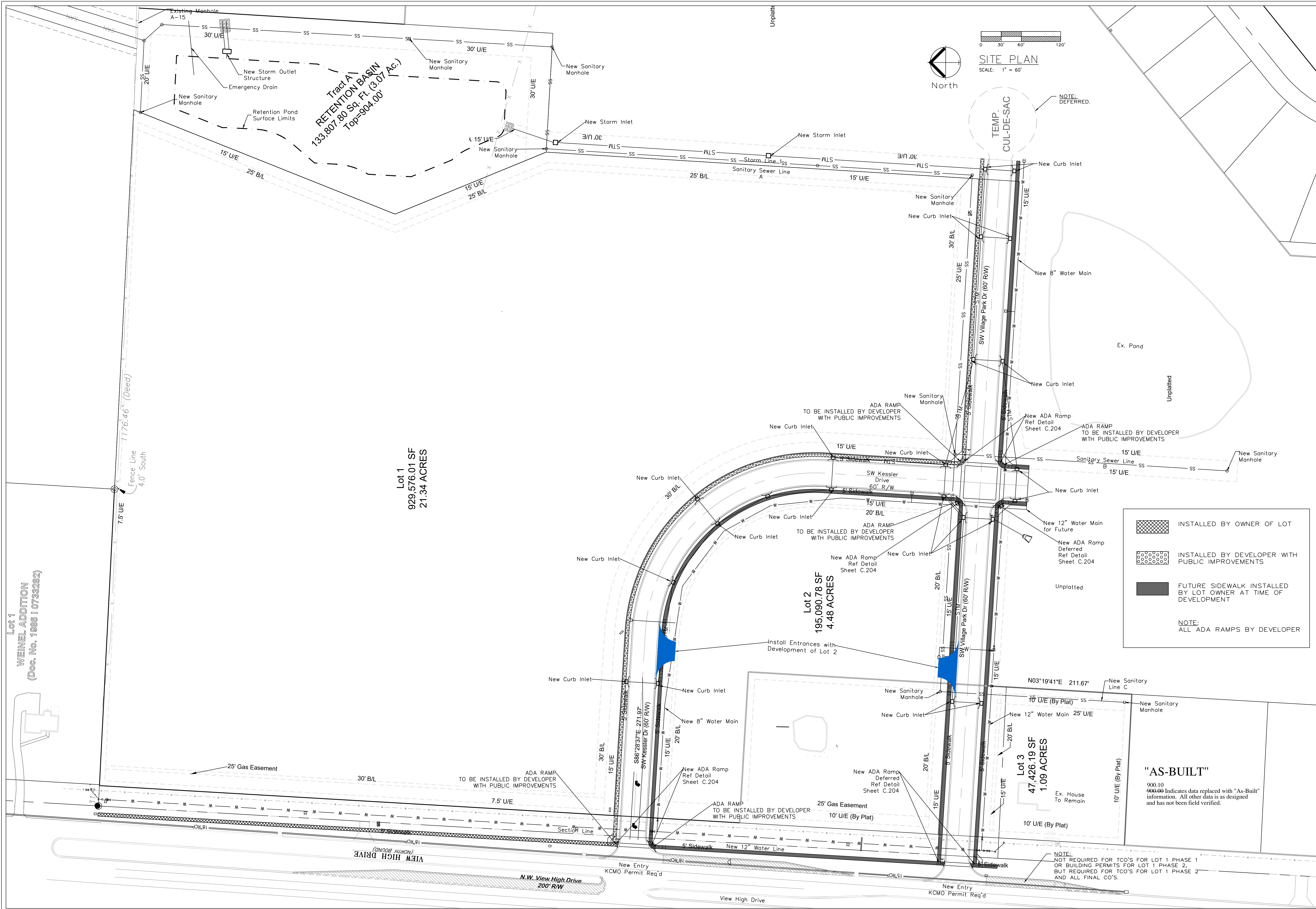
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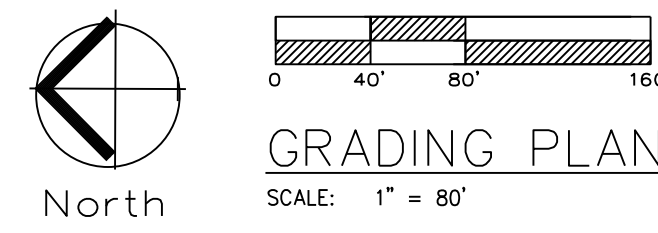
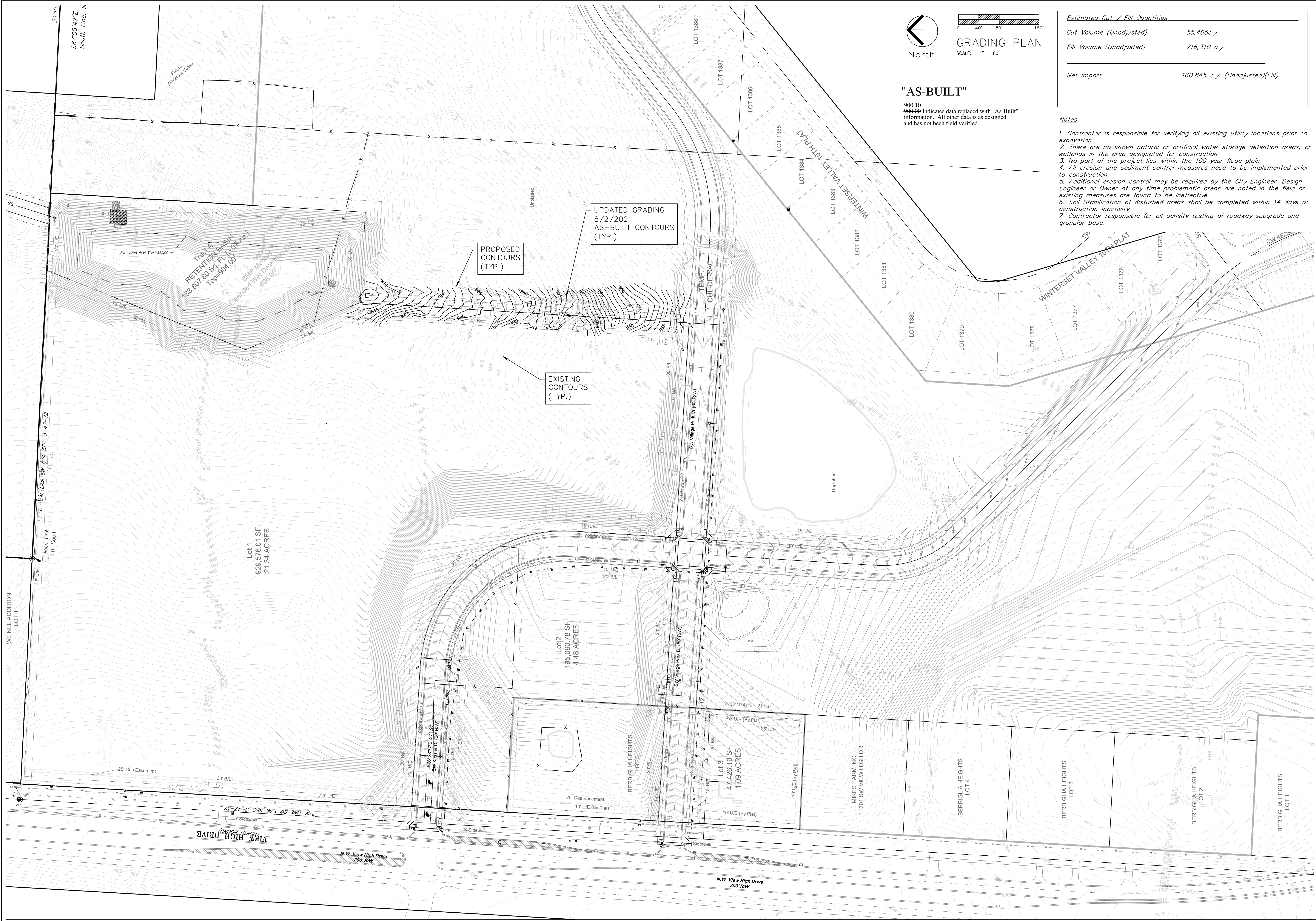
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Estimated Cut / Fill Quantities	
Cut Volume (Unadjusted)	55,465 c.y.
Fill Volume (Unadjusted)	216,310 c.y.
Net Import	160,845 c.y. (Unadjusted)(Fill)

- 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.

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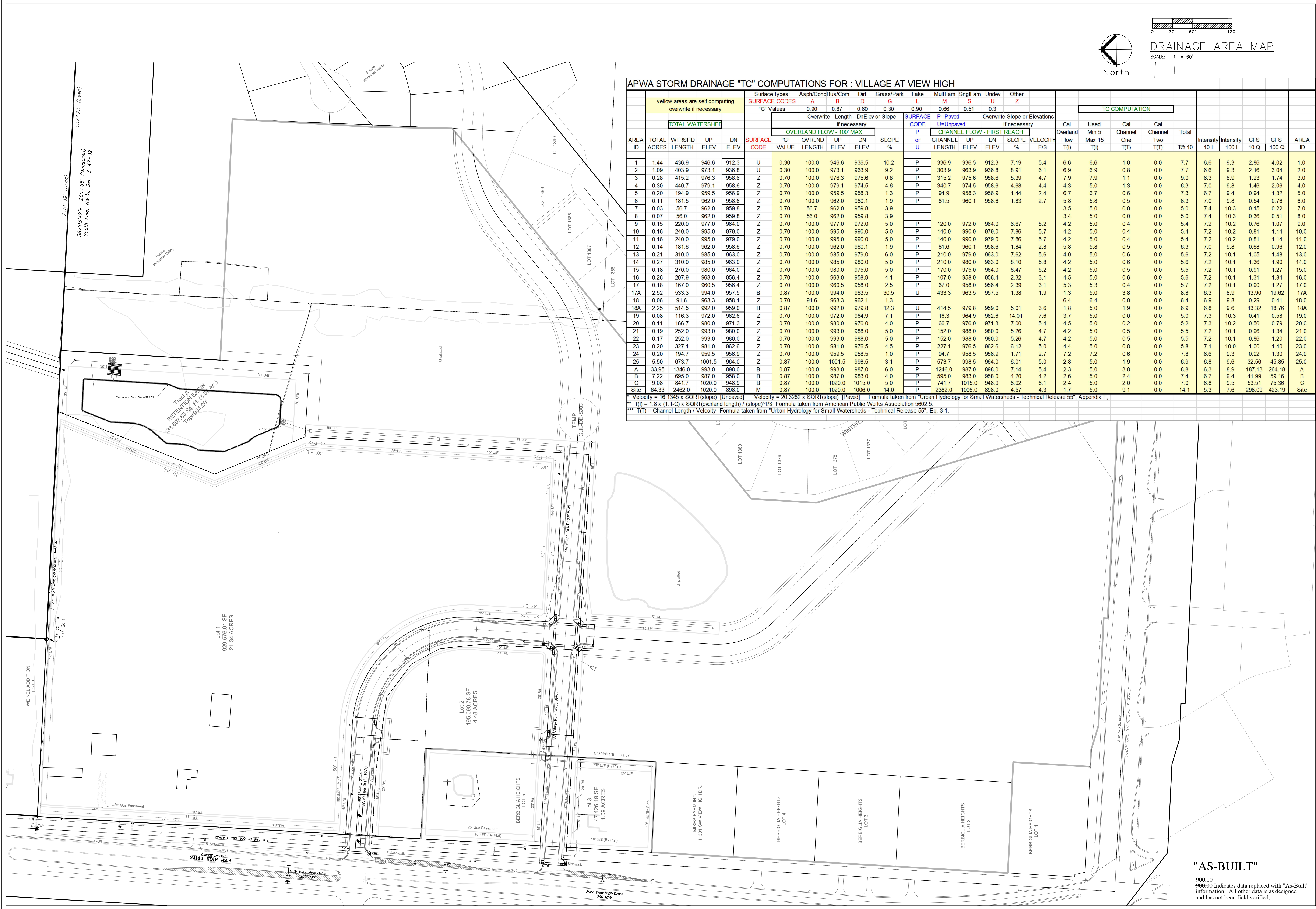
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Grading Plan
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

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C.200



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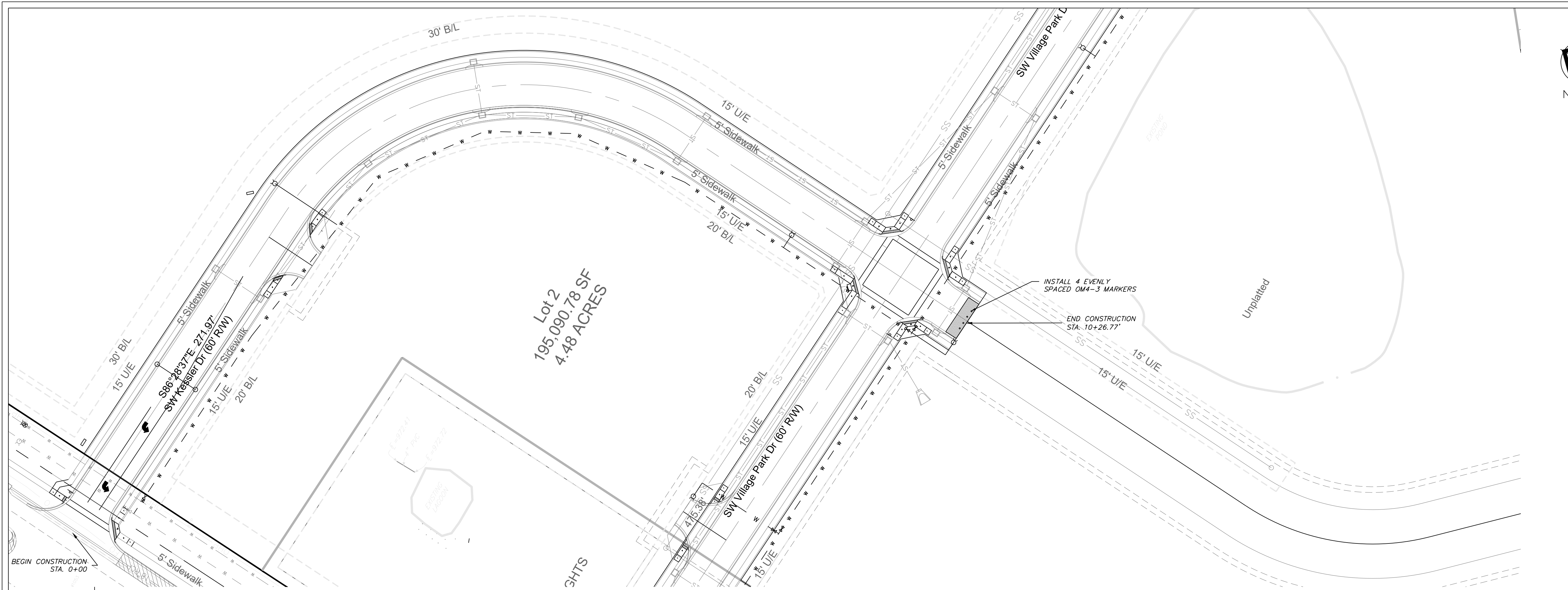
Master Drainage Map 2 of 2:
Drainage Area Map
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

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REVISIONS
11/22/19 As-Built
8/2/2021 As-Built
C. 201

Lee's Summit, Jackson County, Missouri

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North

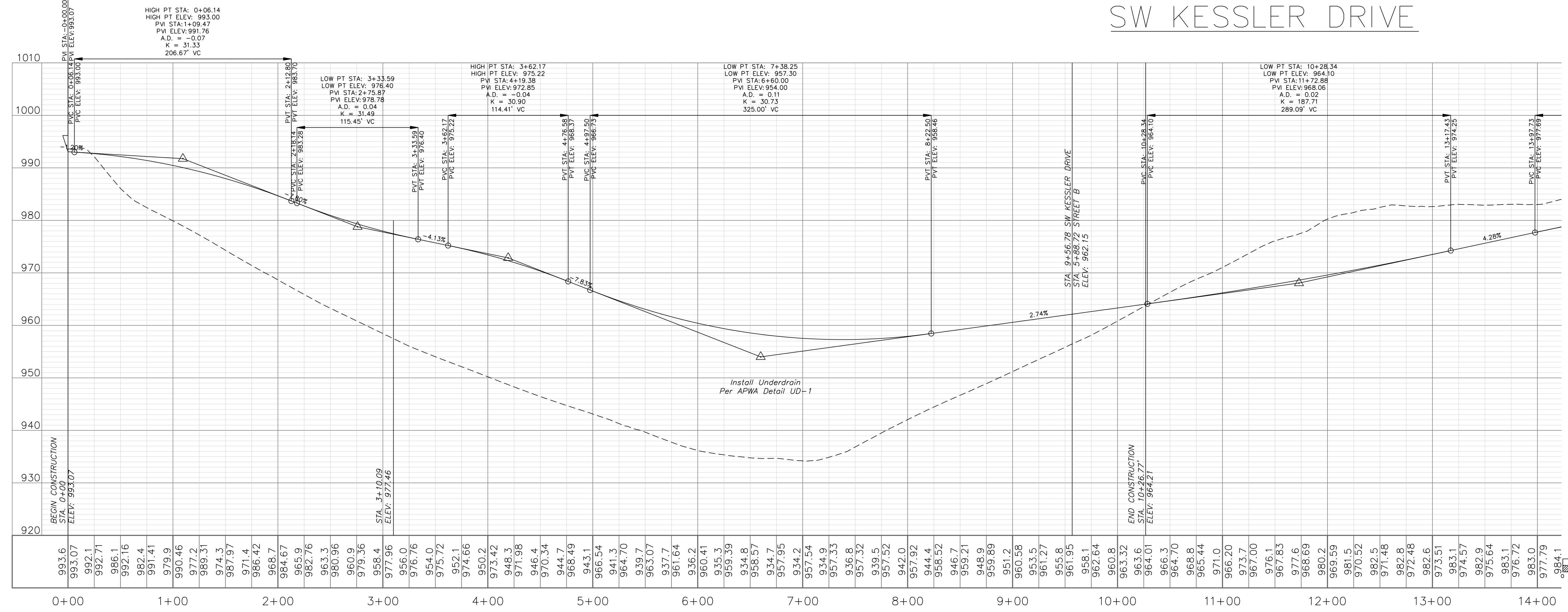
0 25 50 100'

STREET PLAN & PROFILE

SCALE: 1" = 50'

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SW KESSLER DRIVE

Professional Registration

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Oklahoma
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Nebraska
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Project: Village At View High
View High Project

Issue Date: November 22, 2019

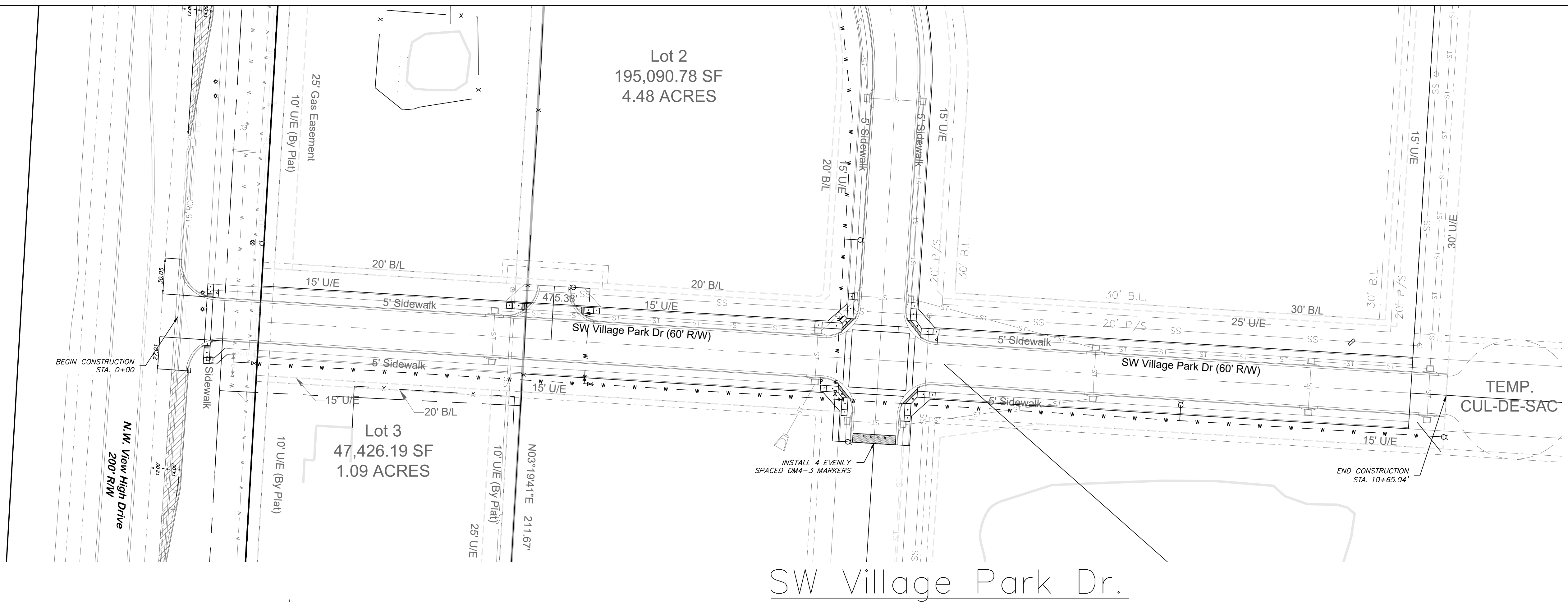
Street Plan and Profile
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

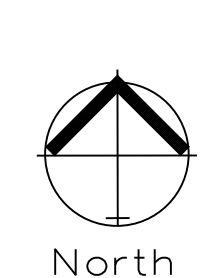
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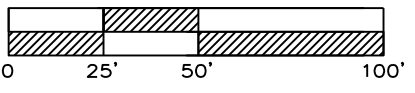
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C.202





North



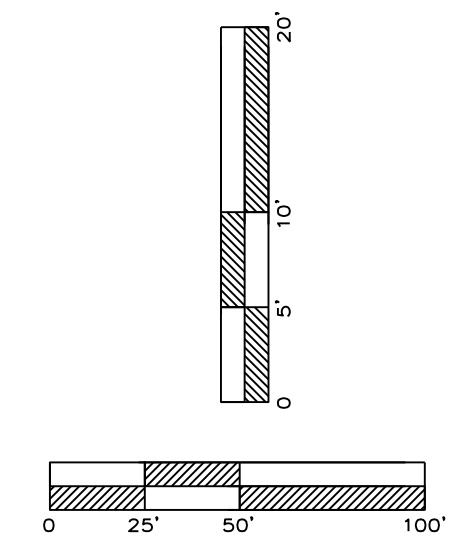
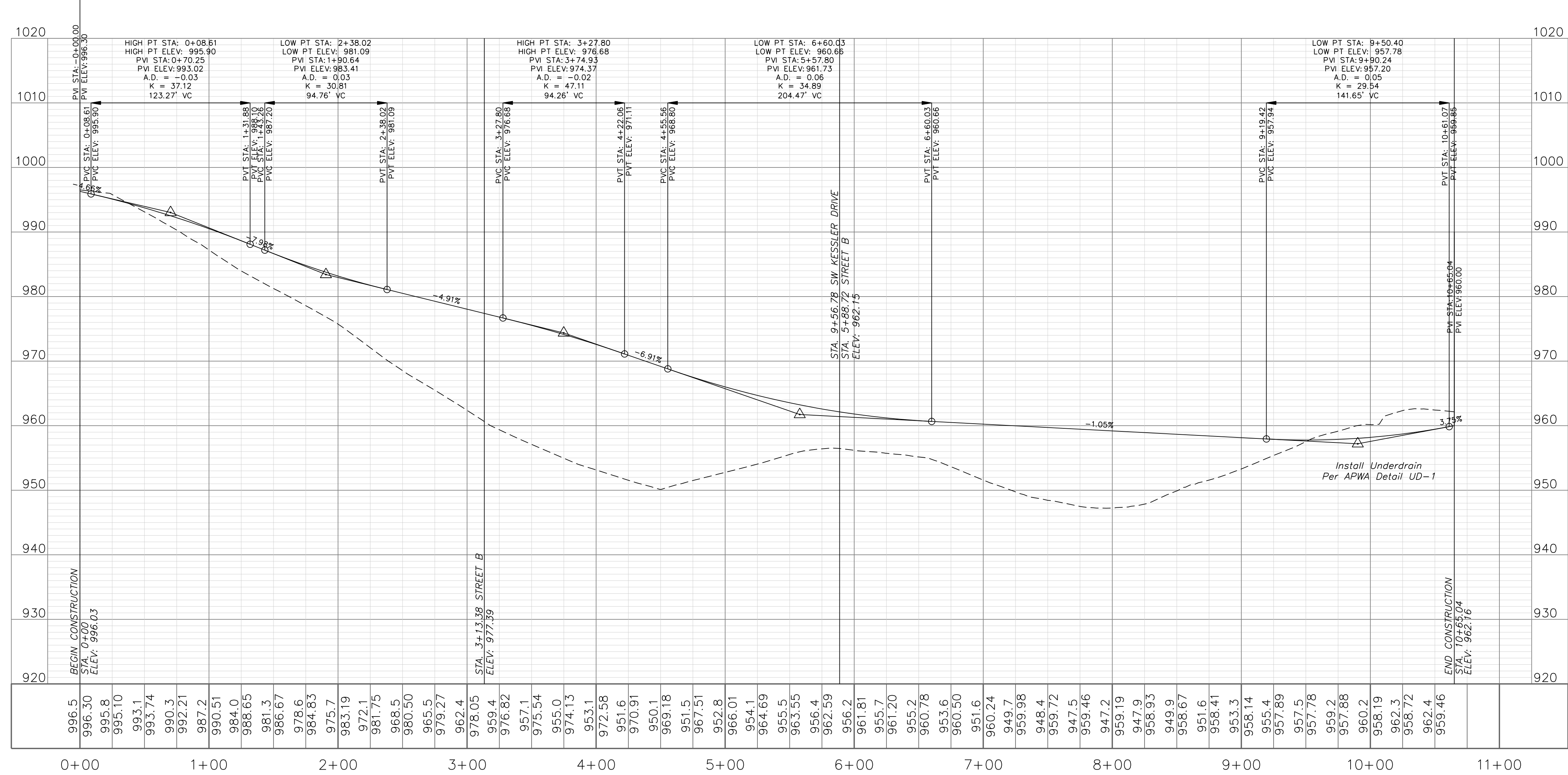
0 25 50 100'

STREET PLAN & PROFILE

SCALE: 1" = 50'

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Project: Village At View High
View High Project

Issue Date: November 22, 2019

Village Park Plan and Profile
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

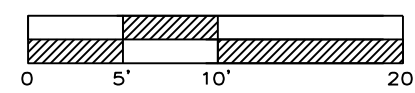
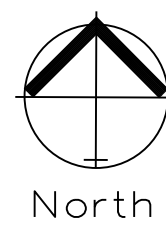
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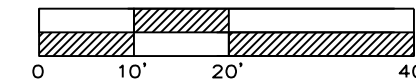
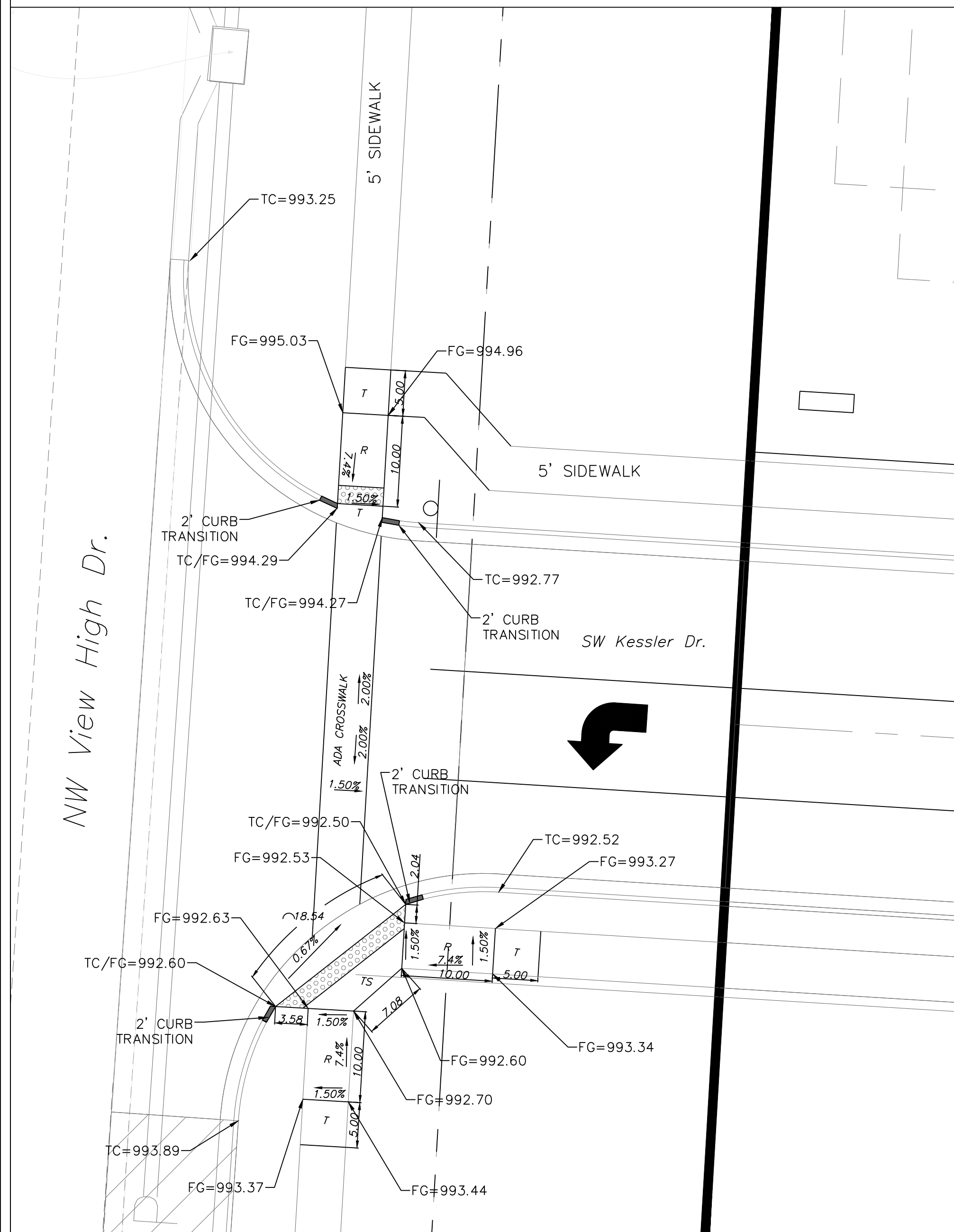
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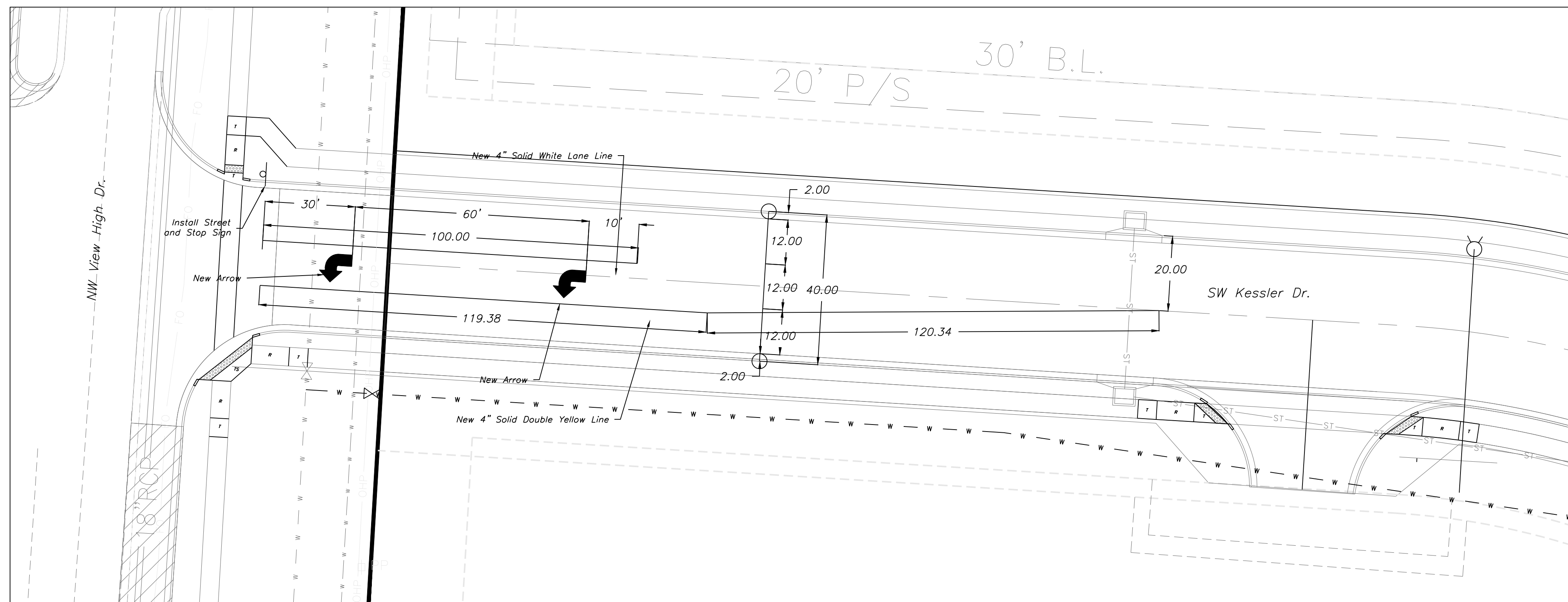
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INTERSECTION DETAIL / ADA RAMP ELEVATIONS
SCALE: 1" = 10'



INTERSECTION DETAIL / ADA RAMP ELEVATIONS
SCALE: 1" = 20'



Village At View High
Lee's Summit, Jackson County, Missouri

Intersection Details & ADA Ramp Plan
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

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11/22/19 As-Built
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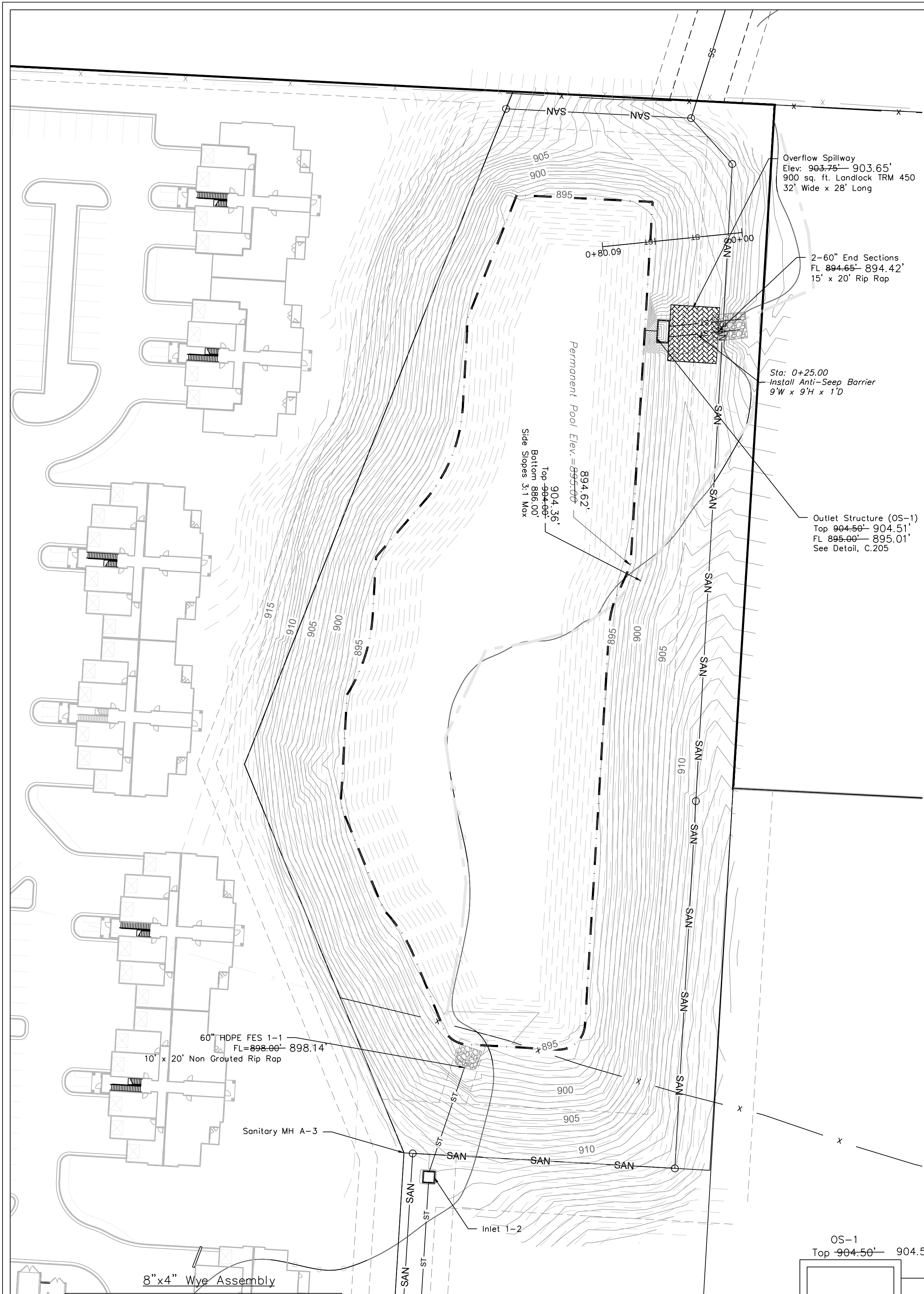
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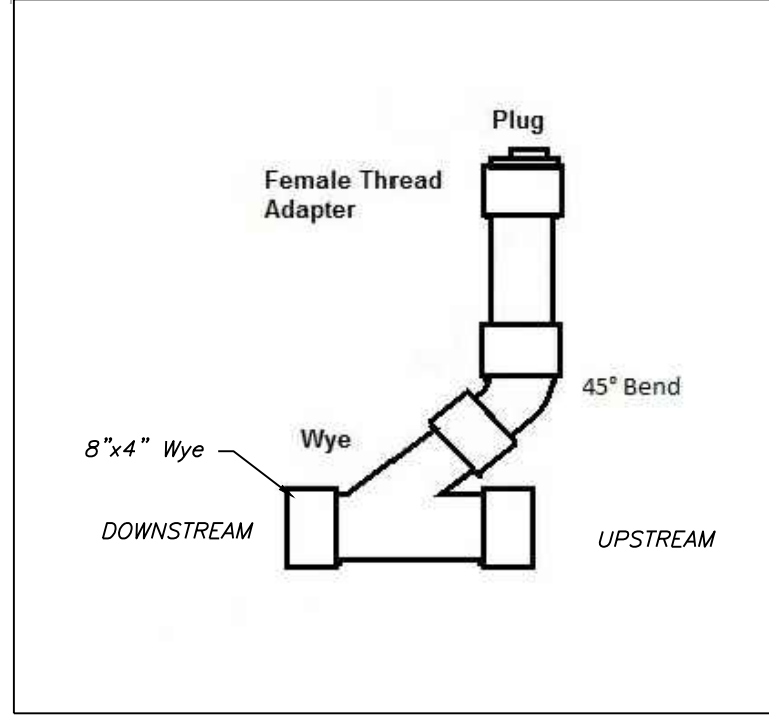
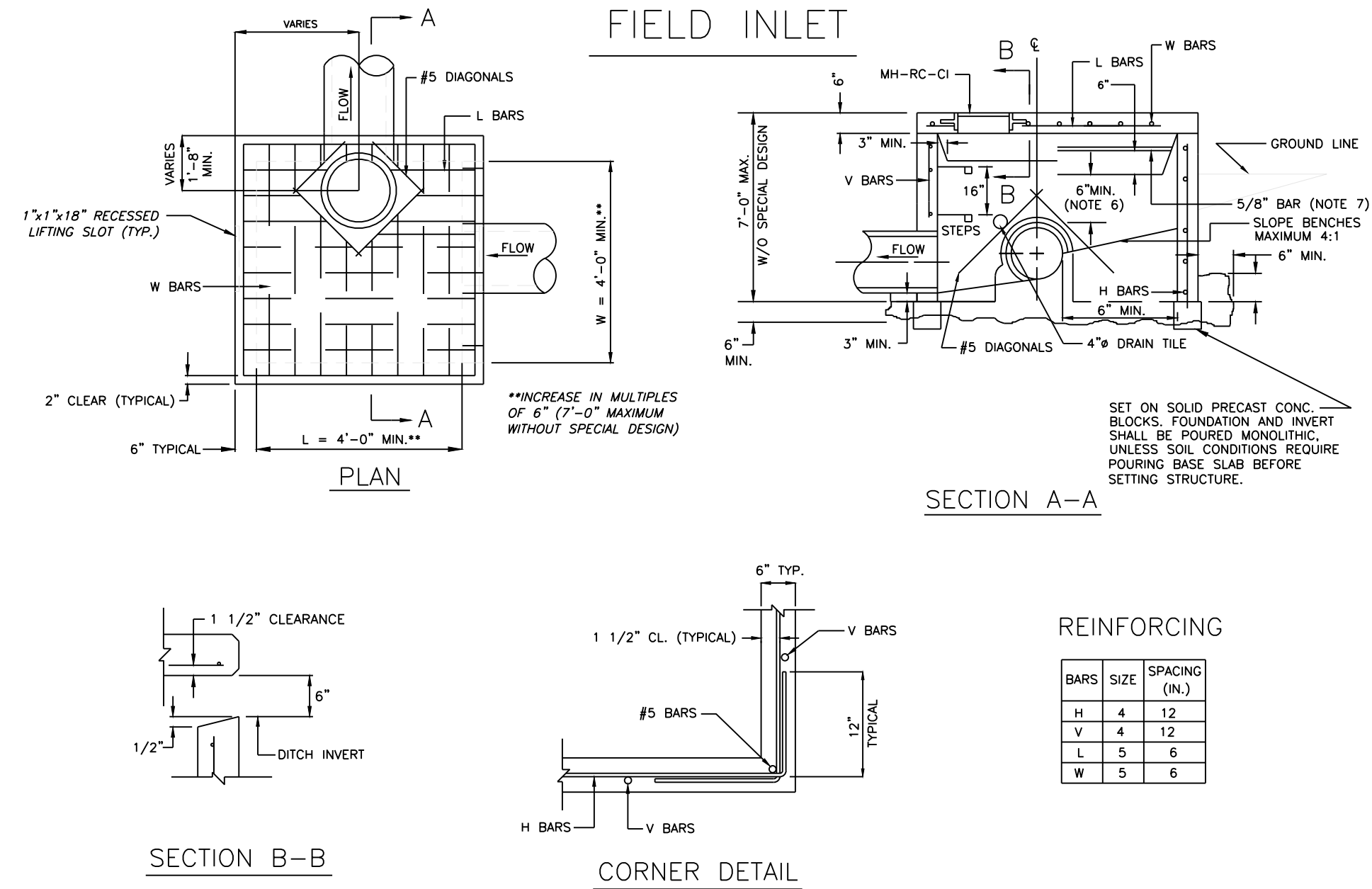
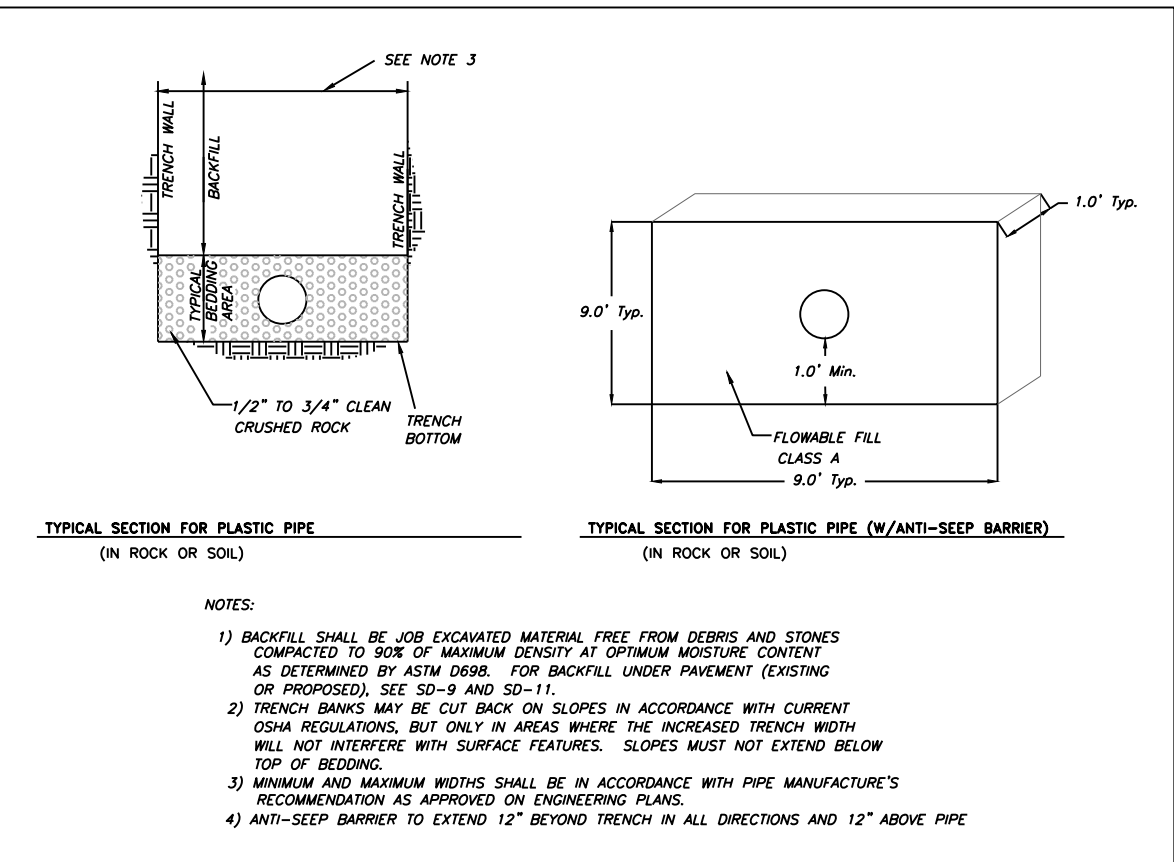
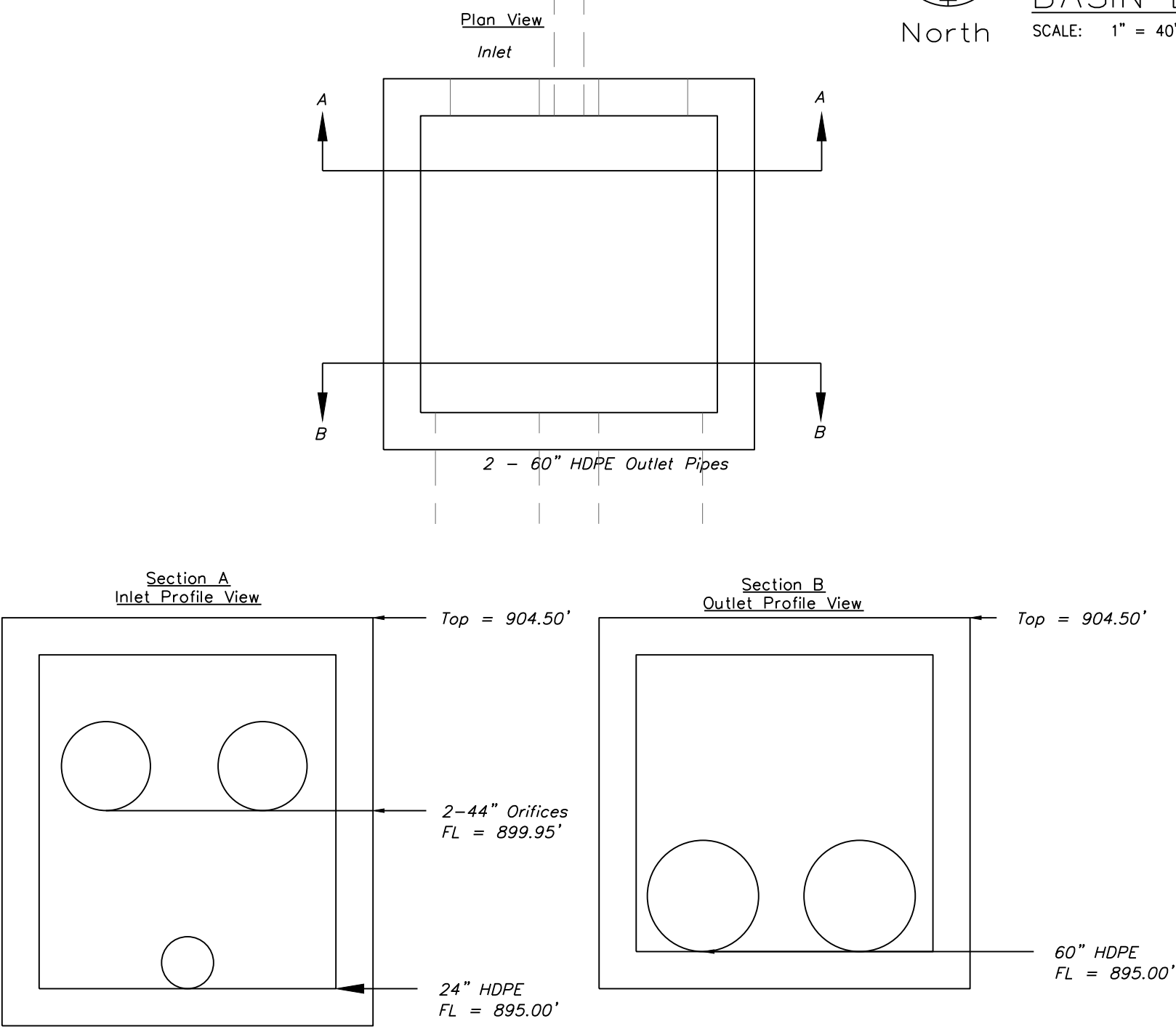
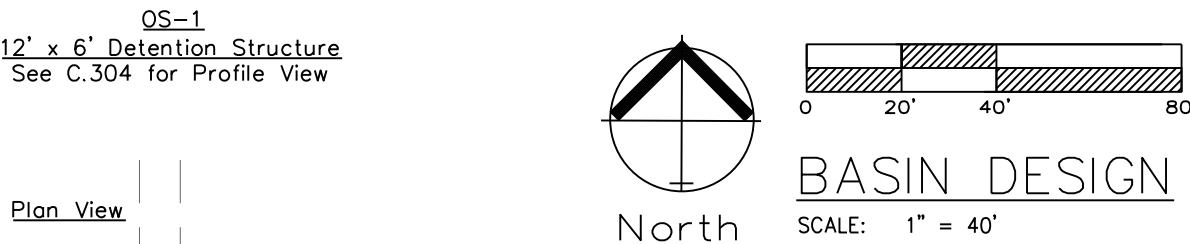
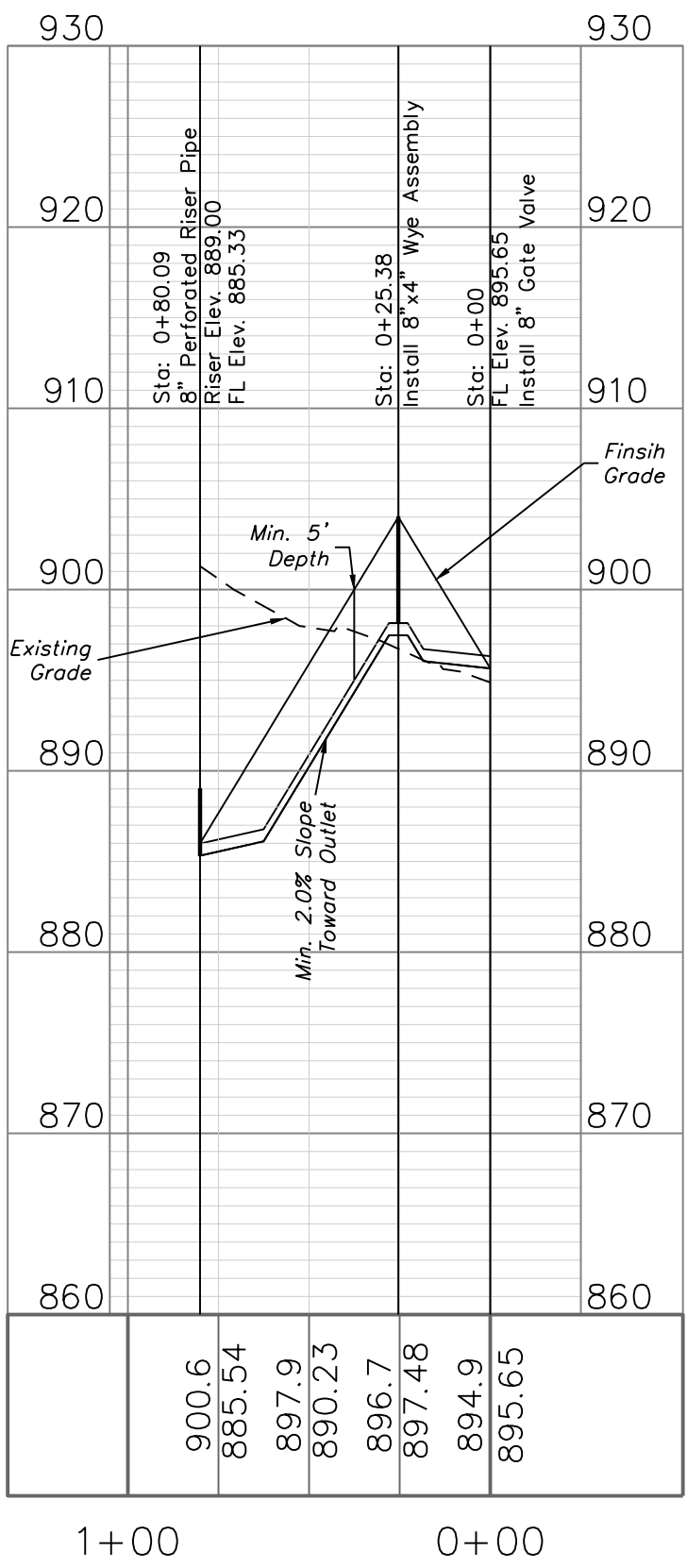
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Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005005189-D
Kansas
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Surveying LS-218
Oklahoma
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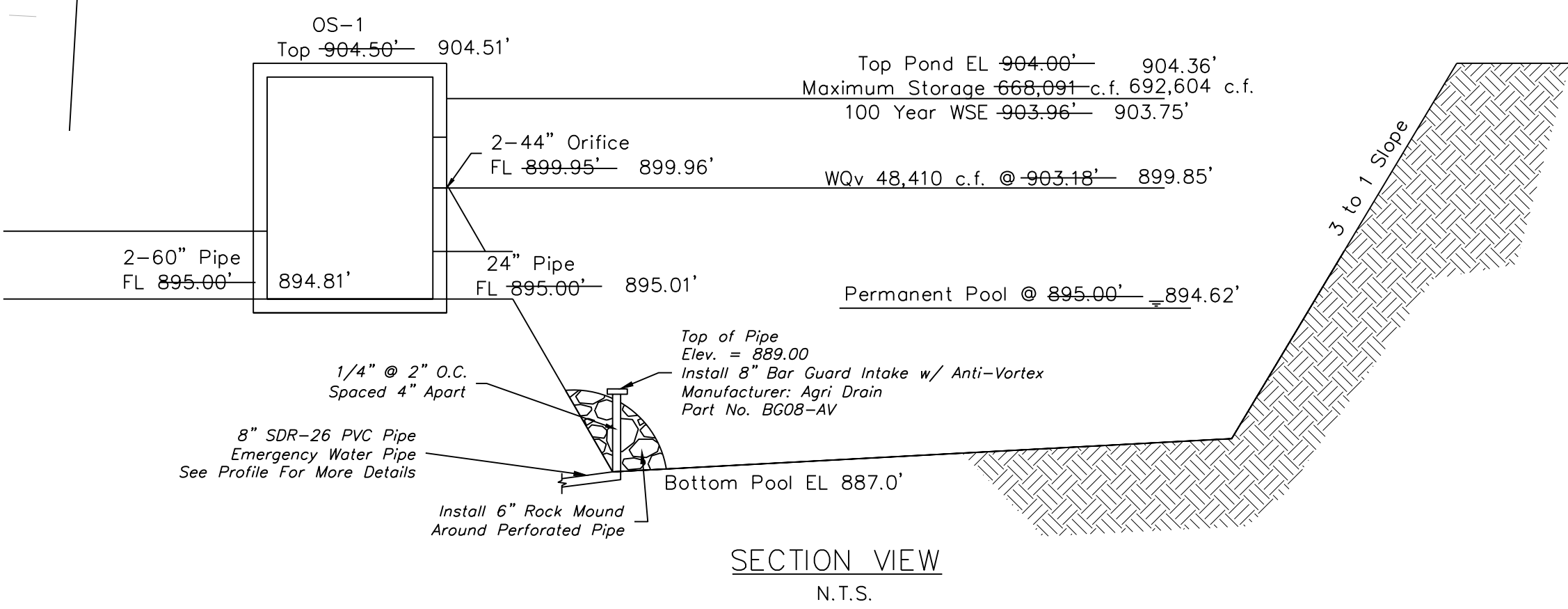
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Emergency Water Release Pipe



Emergency Water Release Instructions
-The downstream valve should be closed
-Water shall fill the down stream leg of the pipe
with a water truck
-Once the downstream line is full the plug shall be placed on the
wye and the valve can be opened and the system will siphon the
water from the retention facility



- GENERAL NOTES:
1. Locate ring and cover over outlet.
 2. All work and materials shall conform to APWA Sect. 2600.
 3. Use 3/4\"/>
 4. Steps required @ 16\"/>
 5. Boxouts will not be allowed to project through the corners of the structure.
 6. The minimum reinforcing shall be 1 H-bar over a cast-in place pipe and 2 H-bars over a precast boxout.
 7. Limit opening height to 6\"/>
 8. Show field inlet orientation on plans plus number and size of opening.
 9. O.R. = one half outside pipe diameter (O.D.).
 11. 4\"/>

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Surveying 2005000519-D
Kansas
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Oklahoma
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Village At View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project

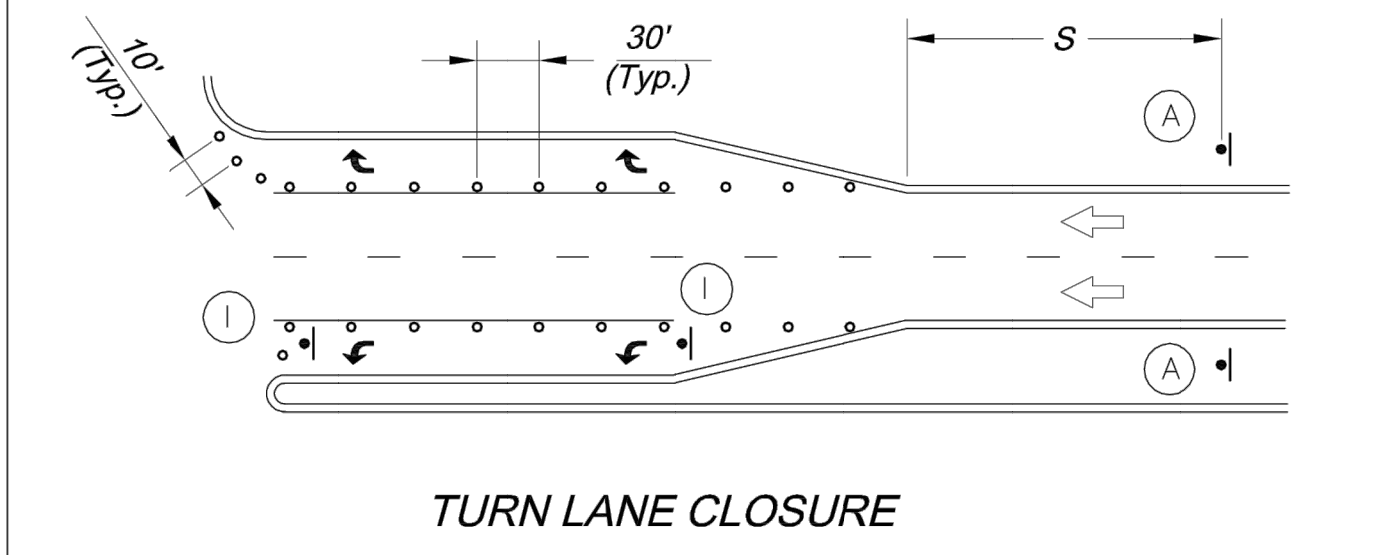
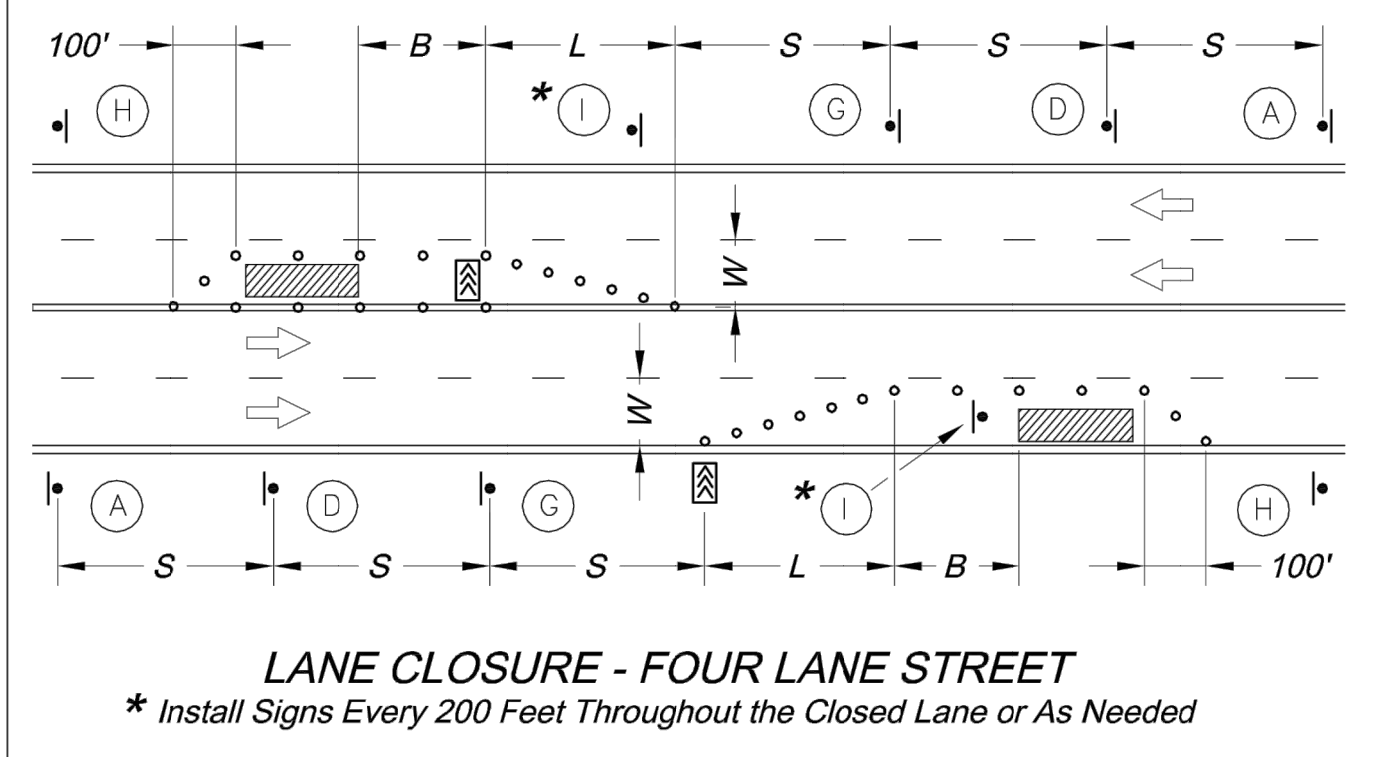
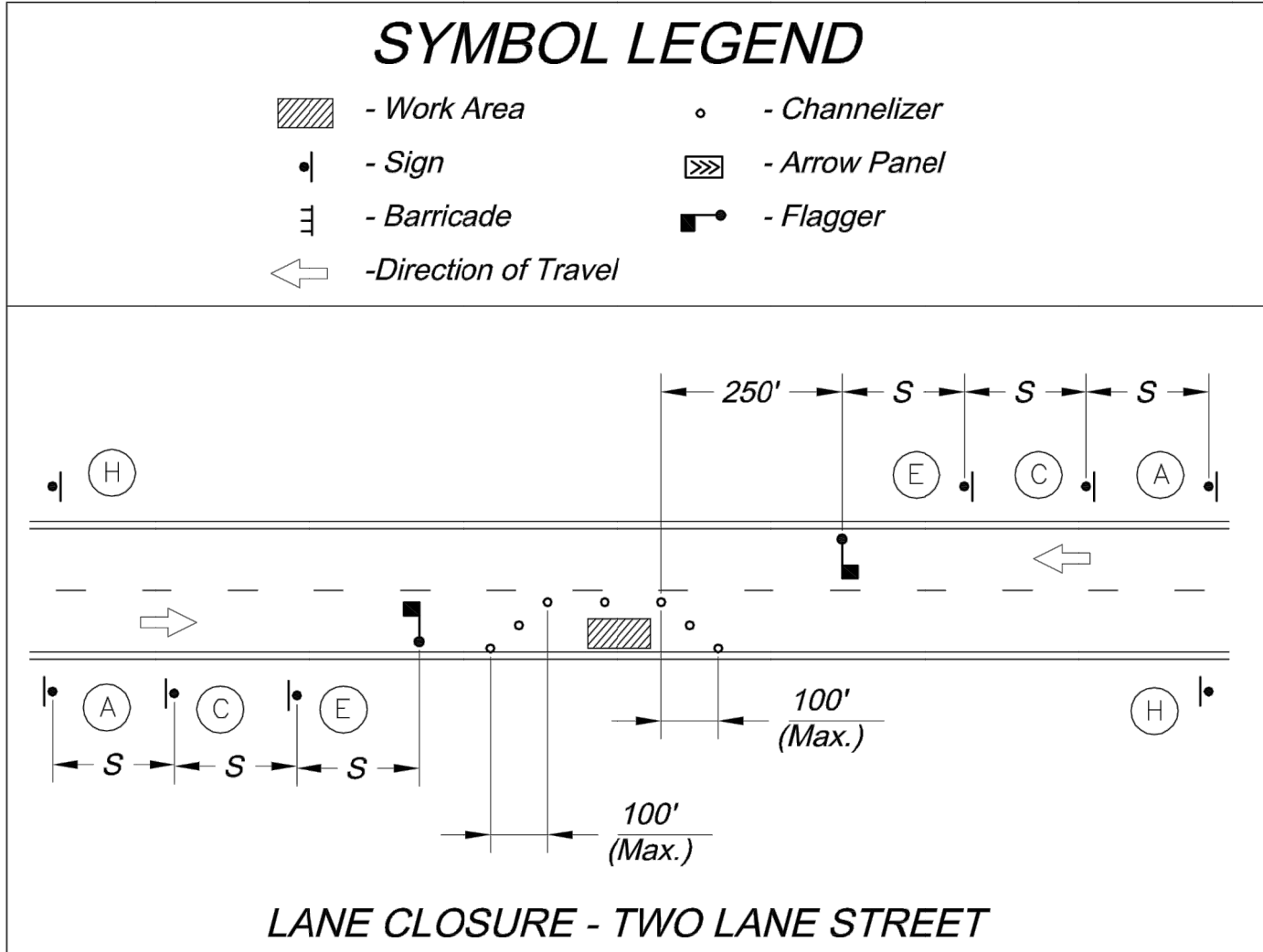
Issue Date:
July 22, 2016

ASBUILT Basin Design Plan View
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526

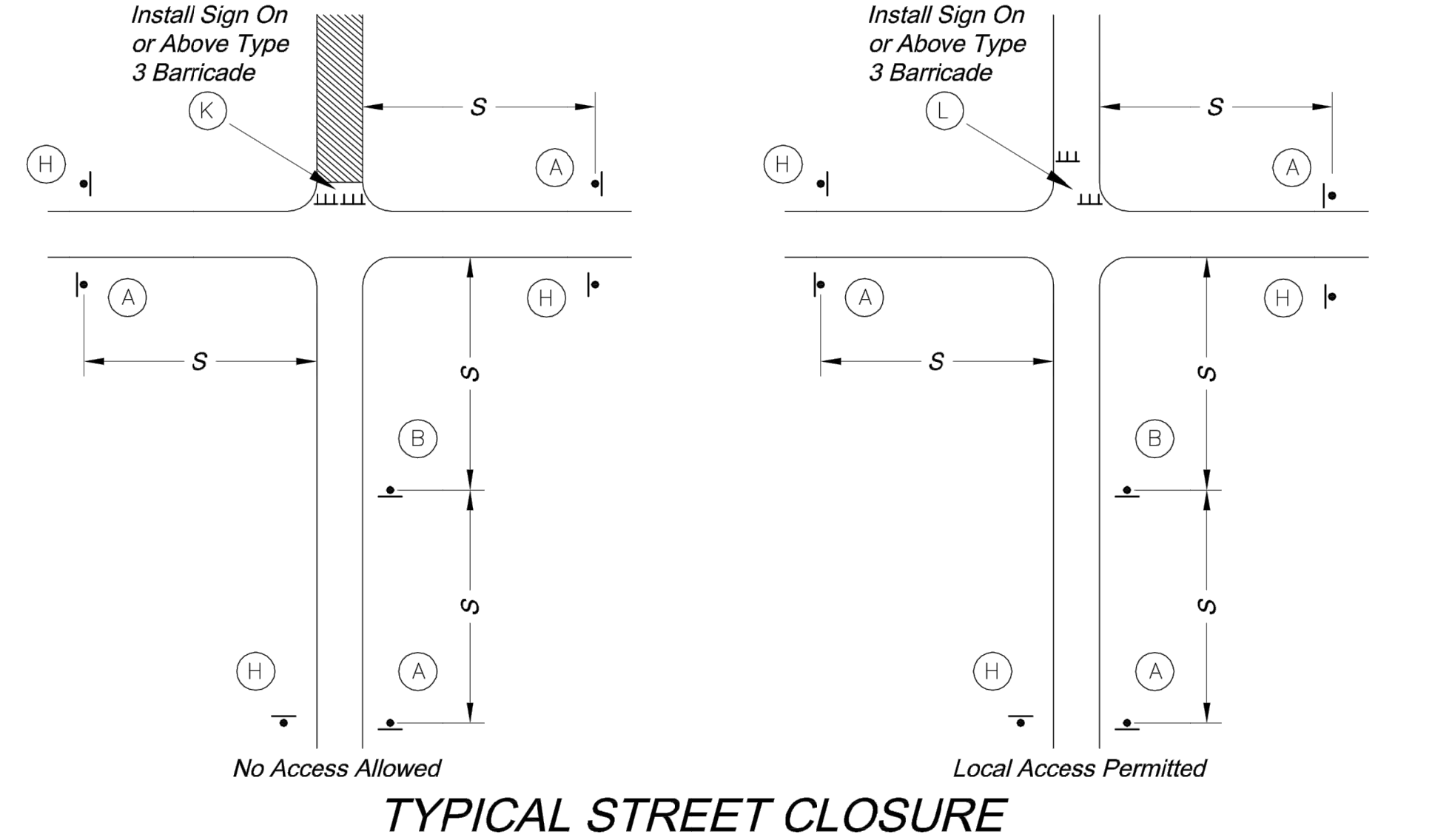
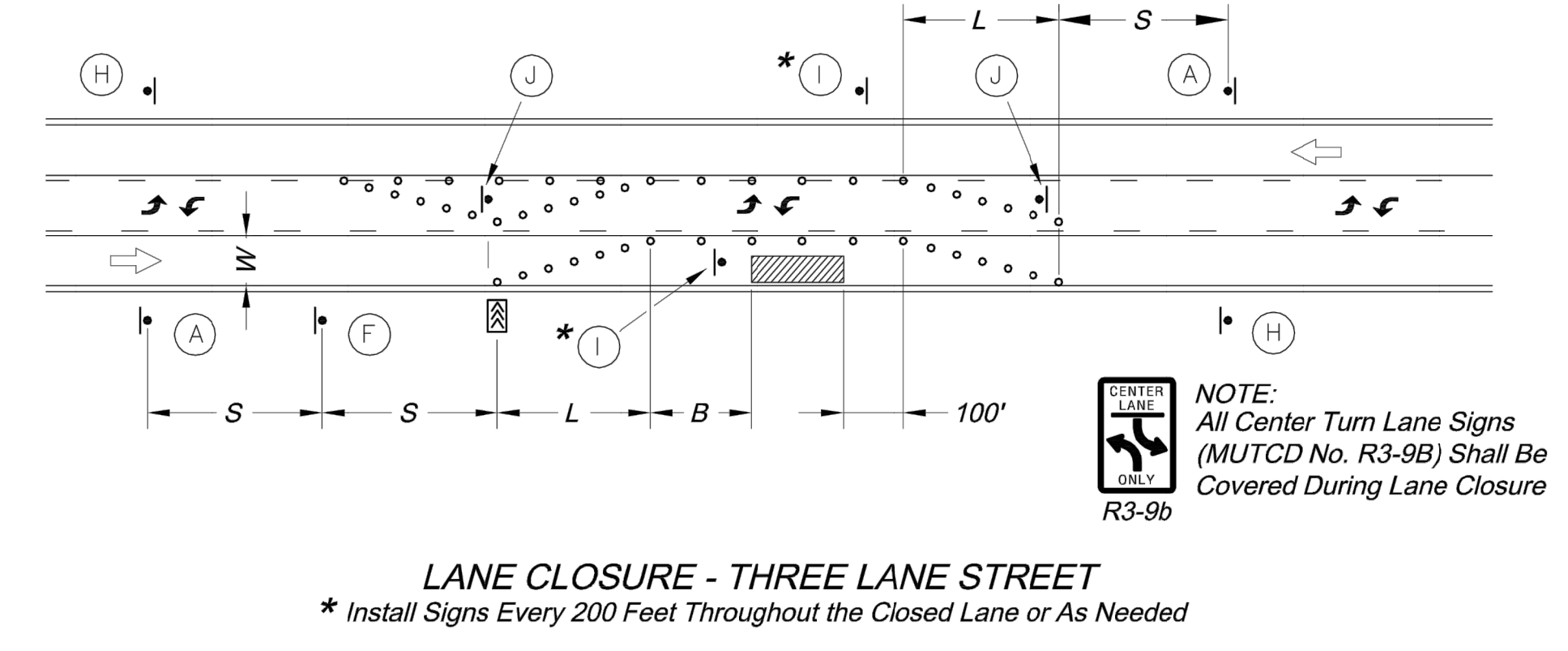
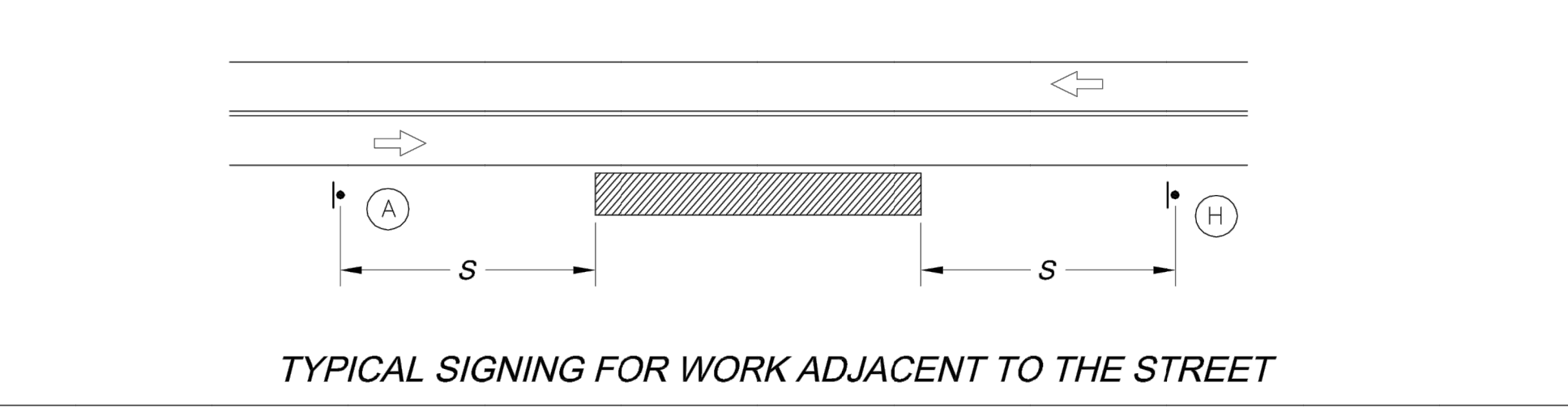
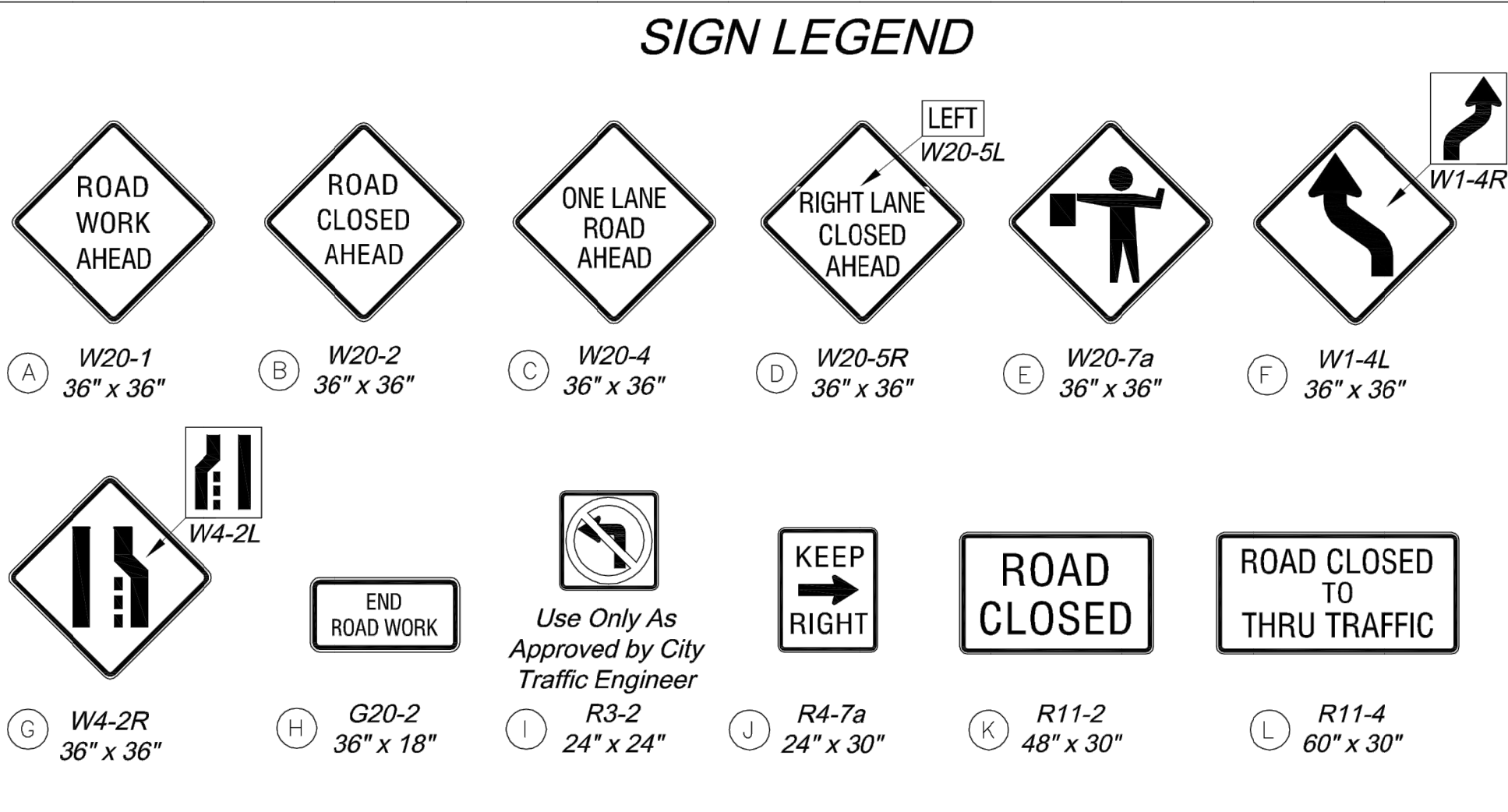
REVISIONS
REV. 9-20-17
REV. 10-11-17
REV. 12-19-17
ASBUILT 10-29-19

C.206

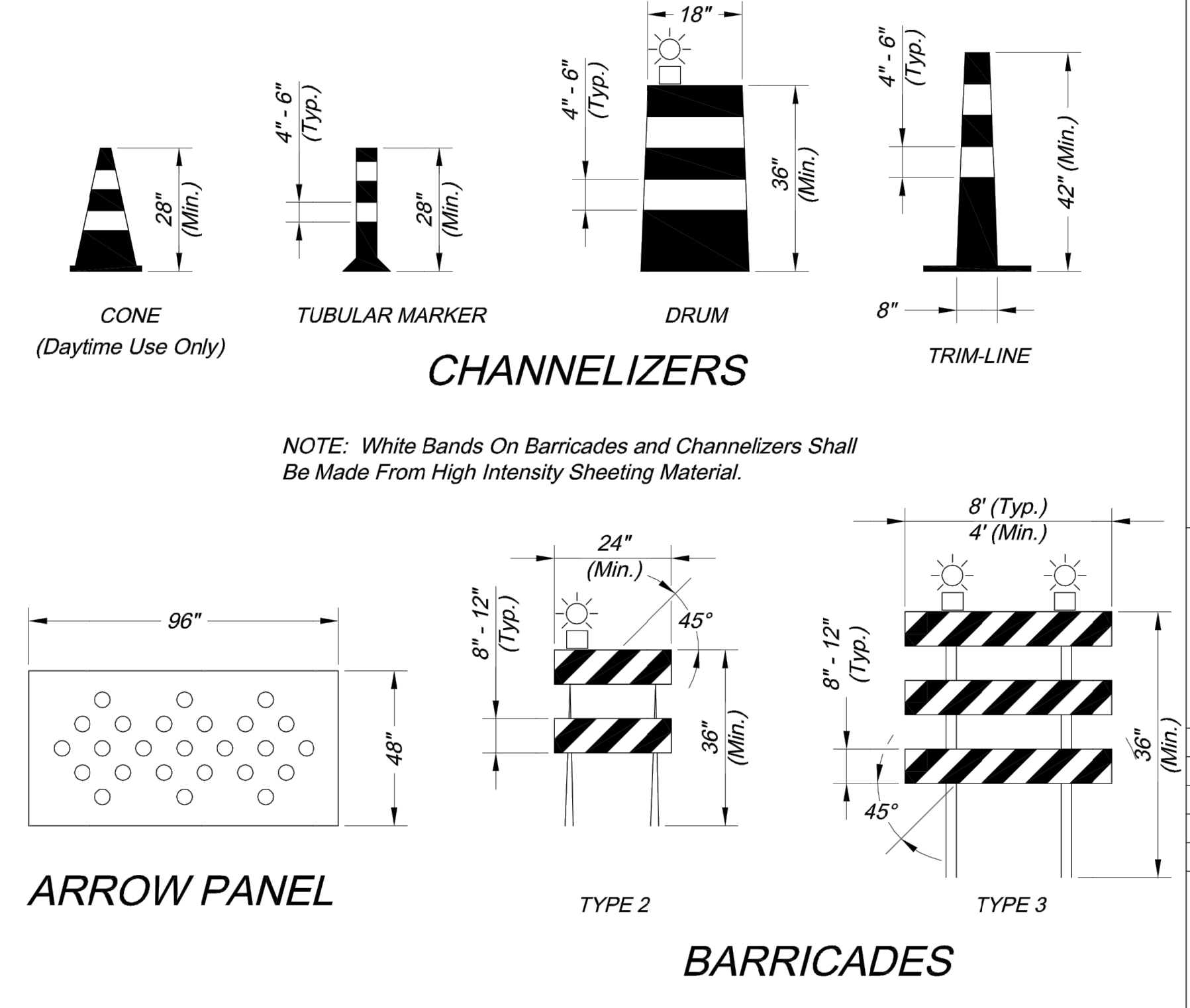


Sign Spacing "S"		Taper Dimensions (Feet)			
Speed Limit (mph)	Spacing (Feet)	Speed Limit (mph)	Minimum Taper Length "L", per Lane Width "W"		Minimum Number of Channelizers
25	100	25	10	11	6
30 - 35	250	30	105	115	125
≥ 40	350	35	150	165	180
		40	205	225	245
		45	270	295	320
		50	450	495	540
		55			13

Guidelines for Length of Longitudinal Buffer Space "B"		Maximum Channelizer Spacing		
Speed Limit (mph)	Length (Feet)	Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	35	25	25	50
30	55	30	30	60
35	85	35	35	70
40	120	40	40	80
45	170	45	45	90



- 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.
 - 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:
 - A) Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate,
 - B) Stop the work until deficiencies are corrected,
 - C) Suspend all pay estimates until deficiencies are corrected, or
 - D) Place the Contractor in default.



CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

TRAFFIC CONTROL DETAILS
STANDARD DRAWING TC-1

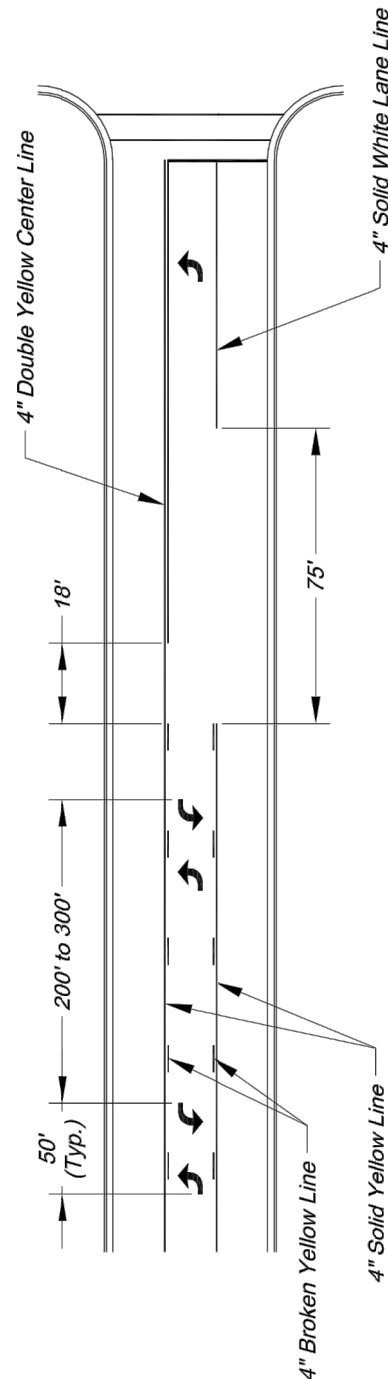
Project: View High Project
Issue Date: November 22, 2019

Drawn By: JJW
Checked By: MP
Date: 12-10-2008
Project No.: X

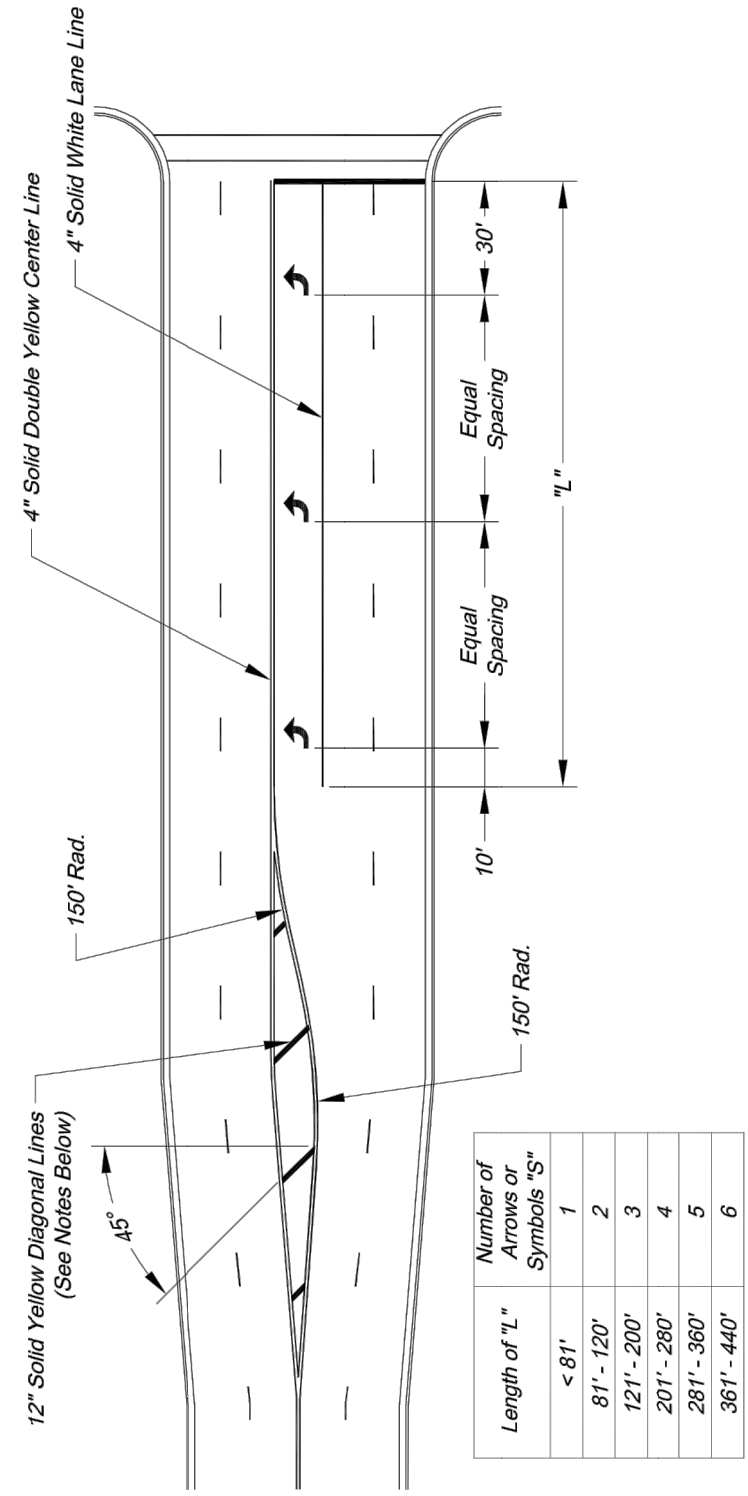
x OF x

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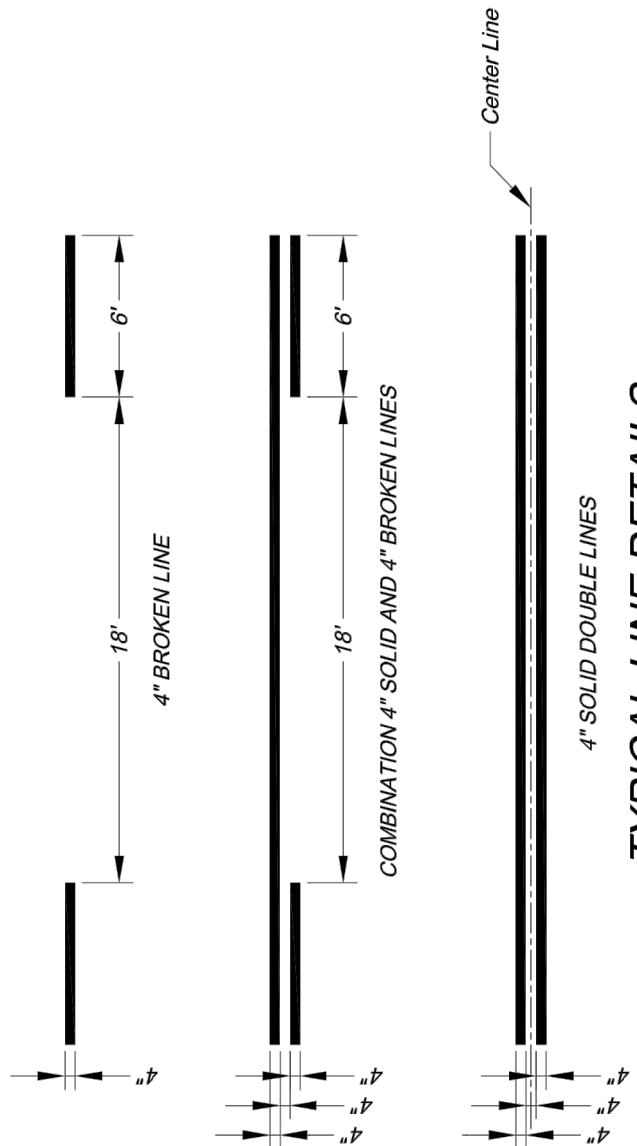


TYPICAL MARKINGS FOR TWO-WAY LEFT-TURN LANE

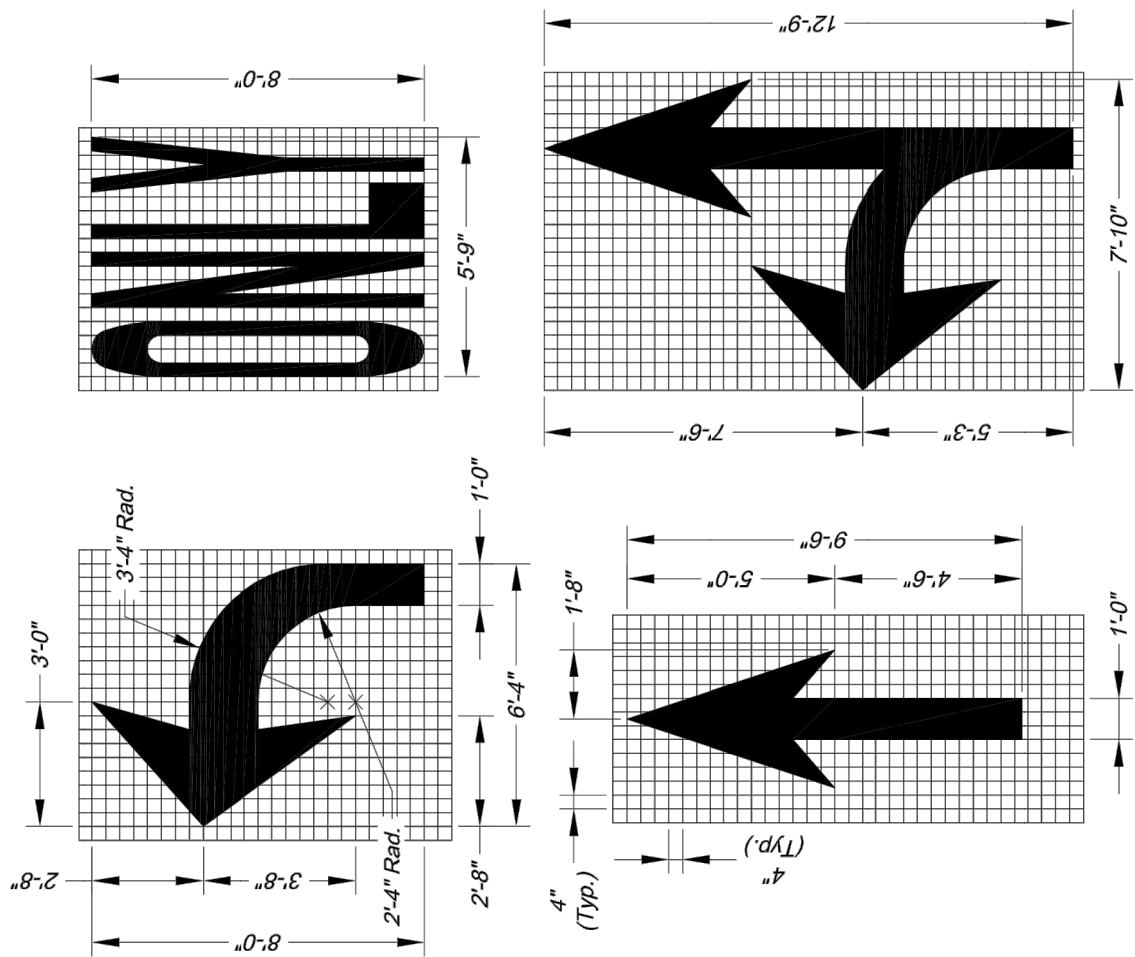


TYPICAL TURN LANE MARKINGS

- NOTES:
1. Edge lines are required between centerlines. If the width of the area between the center lines is greater than 12' and/or the length of the area between center lines is greater than 250', diagonal lines shall be spaced at 5' increments, equal to the posted speed limit.
 2. Diagonal lines should be calculated as $(L - 40') / (S - 1)$.
 3. Equal Spacing is calculated as $(L - 40') / (S - 1)$.
 4. Arrows and symbols are required for turn lanes. Arrows and "ONLY" symbols should be marked in the turn lane, in alternating order. The first and last symbols should be Arrows.

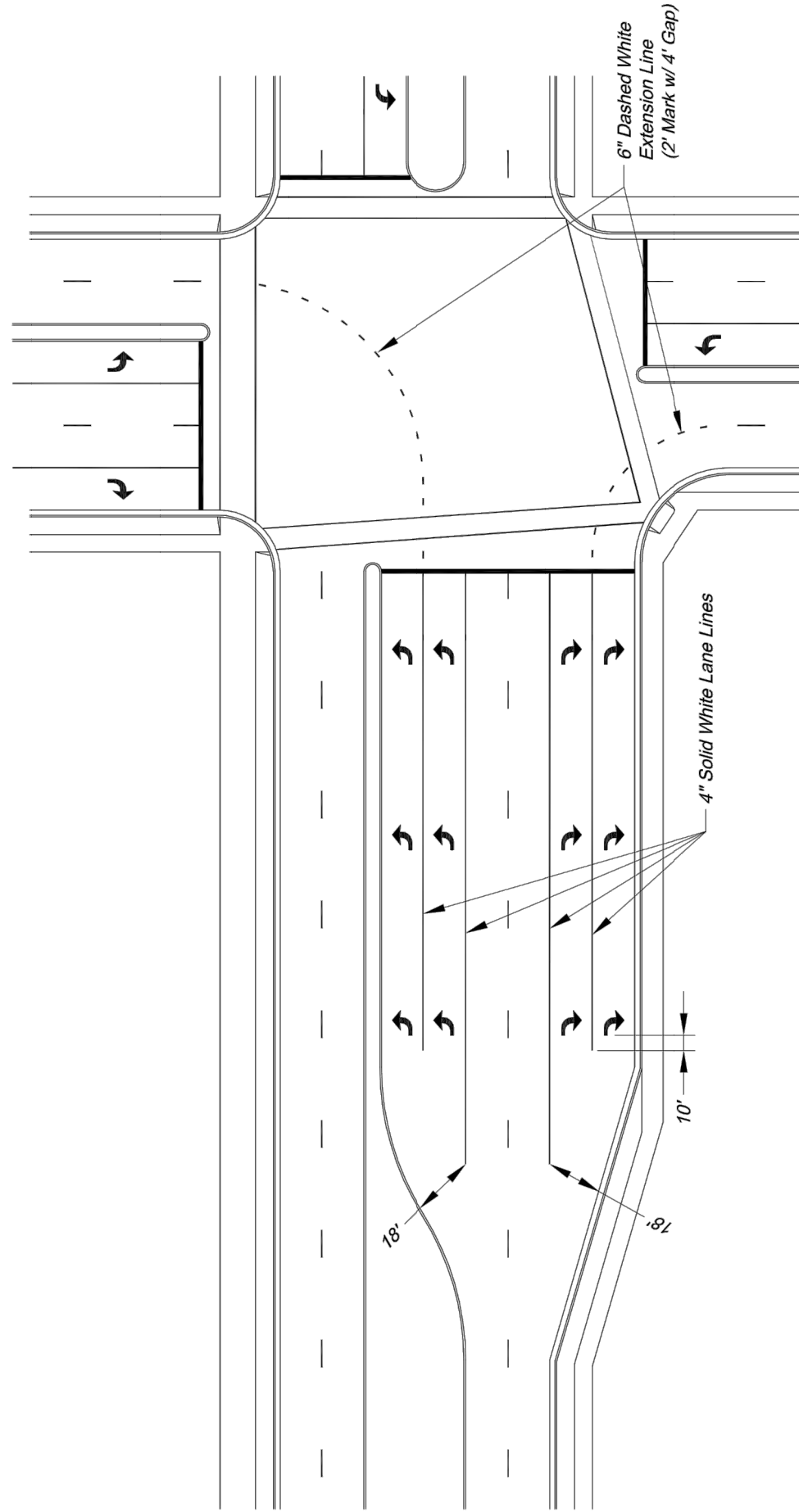


- NOTES:
1. All arrow and symbol markings shall be 4" wide unless otherwise noted.
 2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines or divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across interchanges.



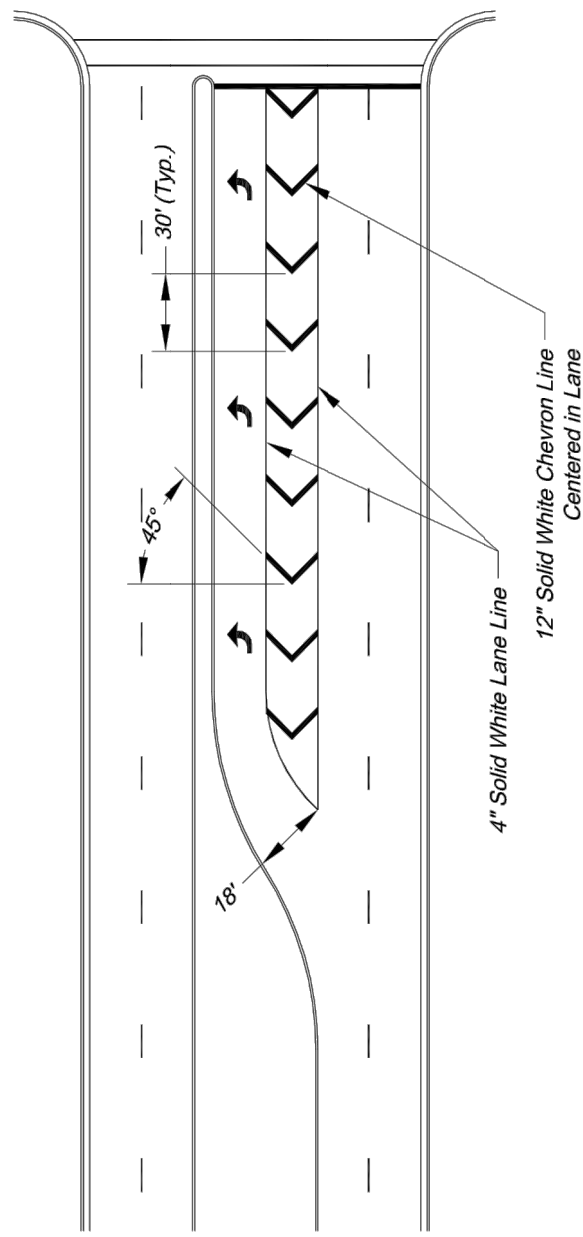
- NOTES:
1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
 2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.

ARROW AND SYMBOL DETAILS



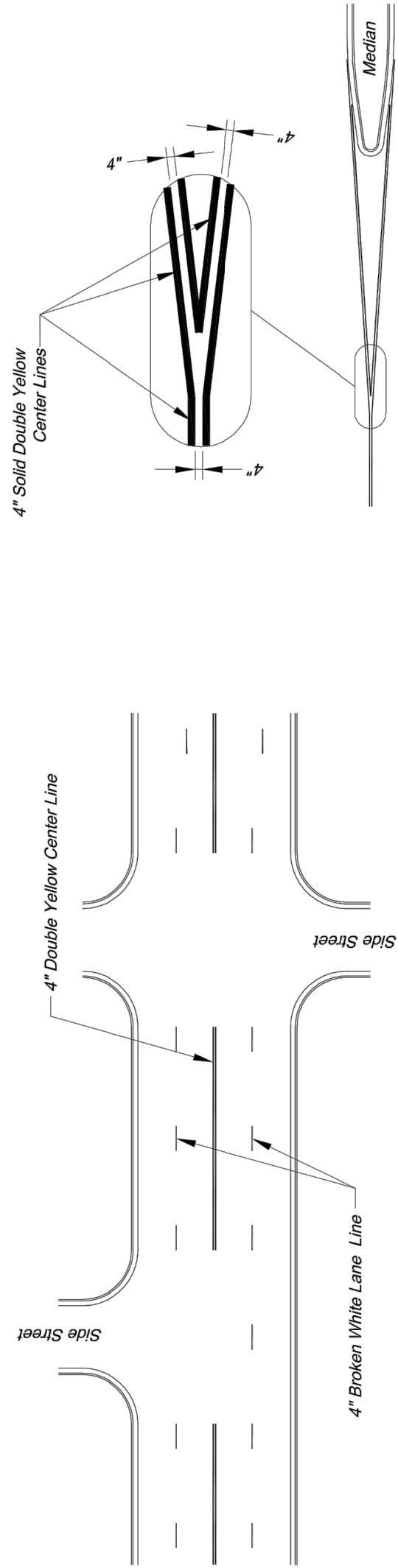
TYPICAL DUAL TURN LANE MARKINGS

- NOTE:
1. Dashed extension lines shall not extend through crosswalks.



TYPICAL STRIPED OUT TURN LANE MARKINGS

ROADWAY MARKING DETAILS

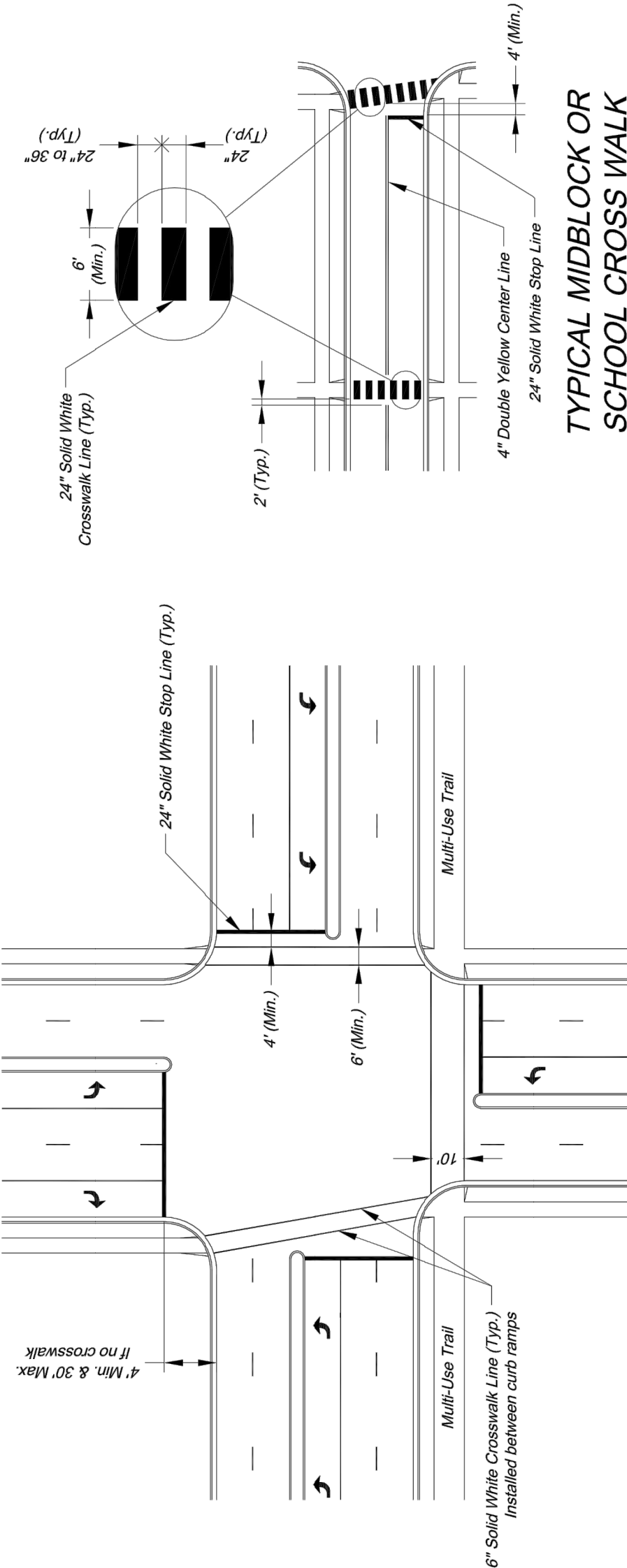


TYPICAL MEDIAN NOSE CENTER LINE DETAIL

- PAVEMENT MARKING GENERAL NOTES:
1. All pavement markings shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
 2. All words and symbols shall conform to the latest edition of Standard Alphabets for Highway Signs and Pavement Markings printed by the U.S. Department of Transportation, Federal Highway Administration.
 3. Pavement markings shall be applied to the pavement surface in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
 4. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
 5. The Contractor's expense markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
 6. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a median.
 7. Edge lines shall be marked on all non-curbed streets.

TYPICAL INTERSECTION MARKINGS

- NOTES:
1. Transverse crosswalk lines shall be installed such that the distance between lines is at least 6 or 10 feet.
 2. Markings shall be installed at signalized intersections, on multi-lane stop controlled approaches, or in front of crosswalks at controlled intersections.



TYPICAL MIDBLOCK OR SCHOOL CROSS WALK

REVISIONS	
11/22/19	As-Built
8/2/2021	As-Built

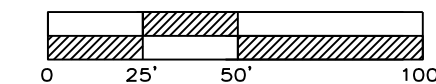
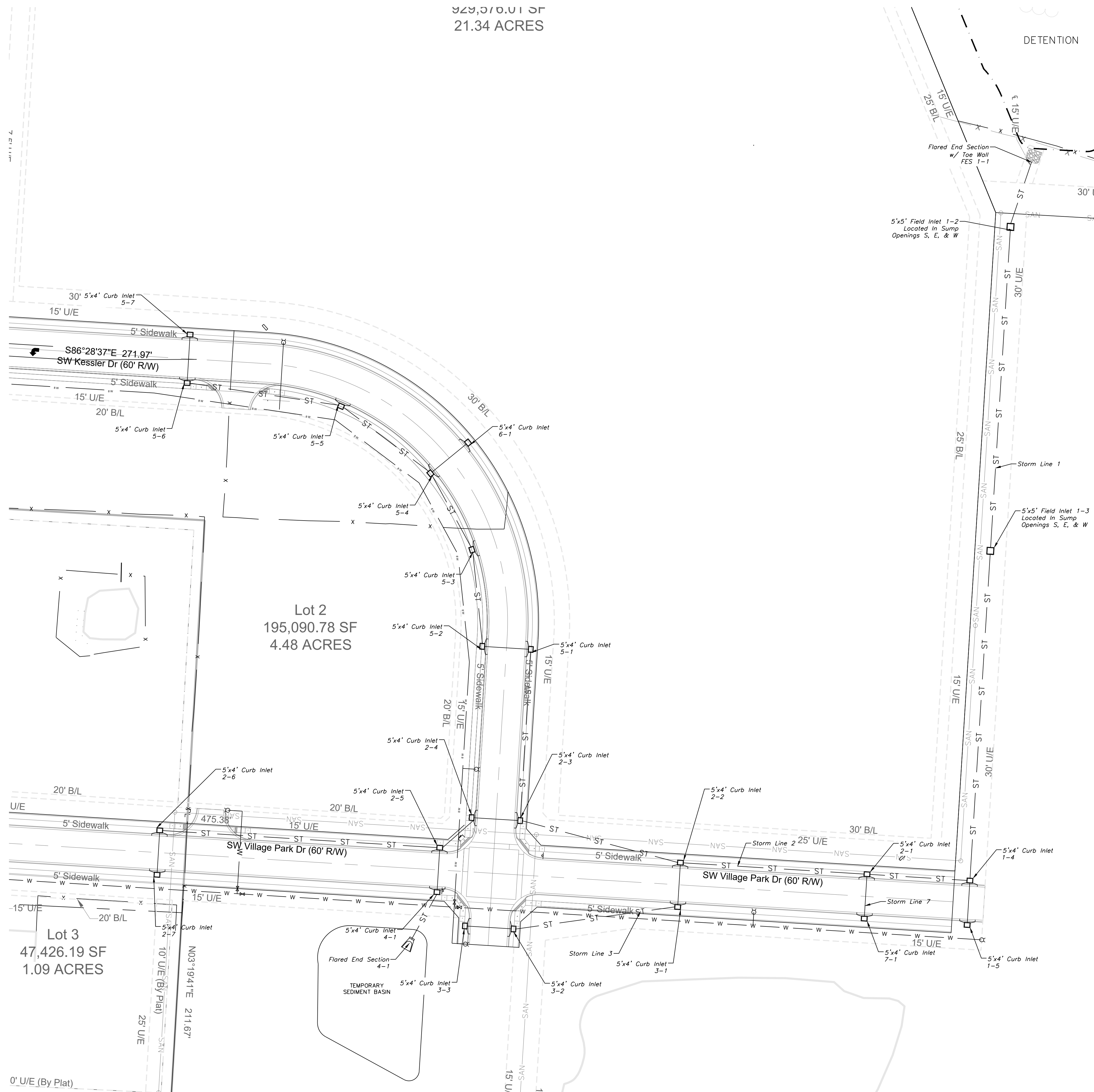
Traffic Control Details
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

Village At View High
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 2005802188-D
Surveying 200500519-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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STORM SEWER GENERAL LAYOUT

SCALE: 1" = 50'

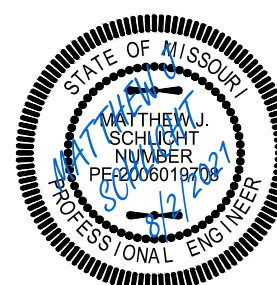


Professional Registration
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Engineering 2005002188-D
Surveying 2005005189-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Storm Sewer General Layout
Construction Plans for:
Village At View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

Storm Sewer General Layout
Construction Plans for:
Village At View High
Lee's Summit, Jackson County, Missouri



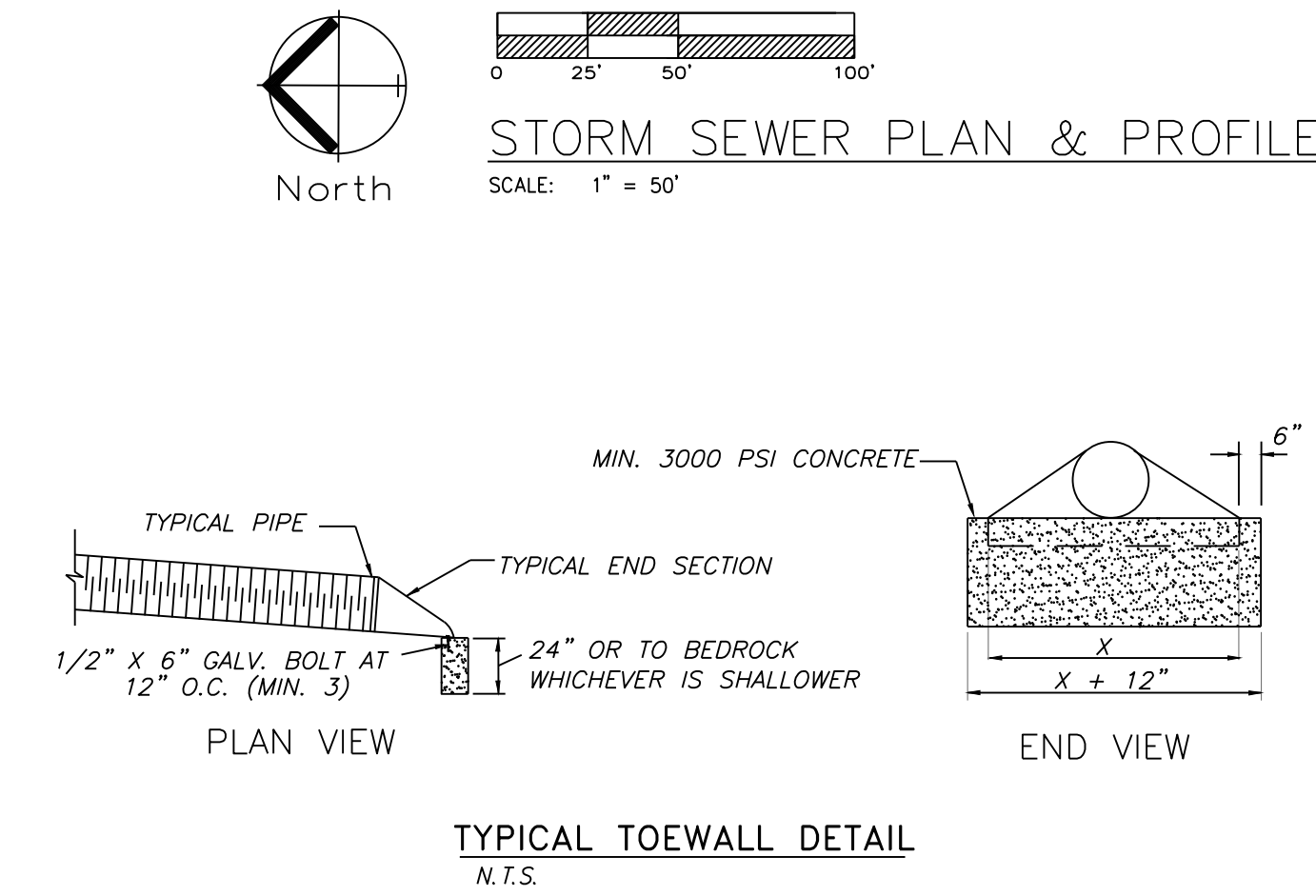
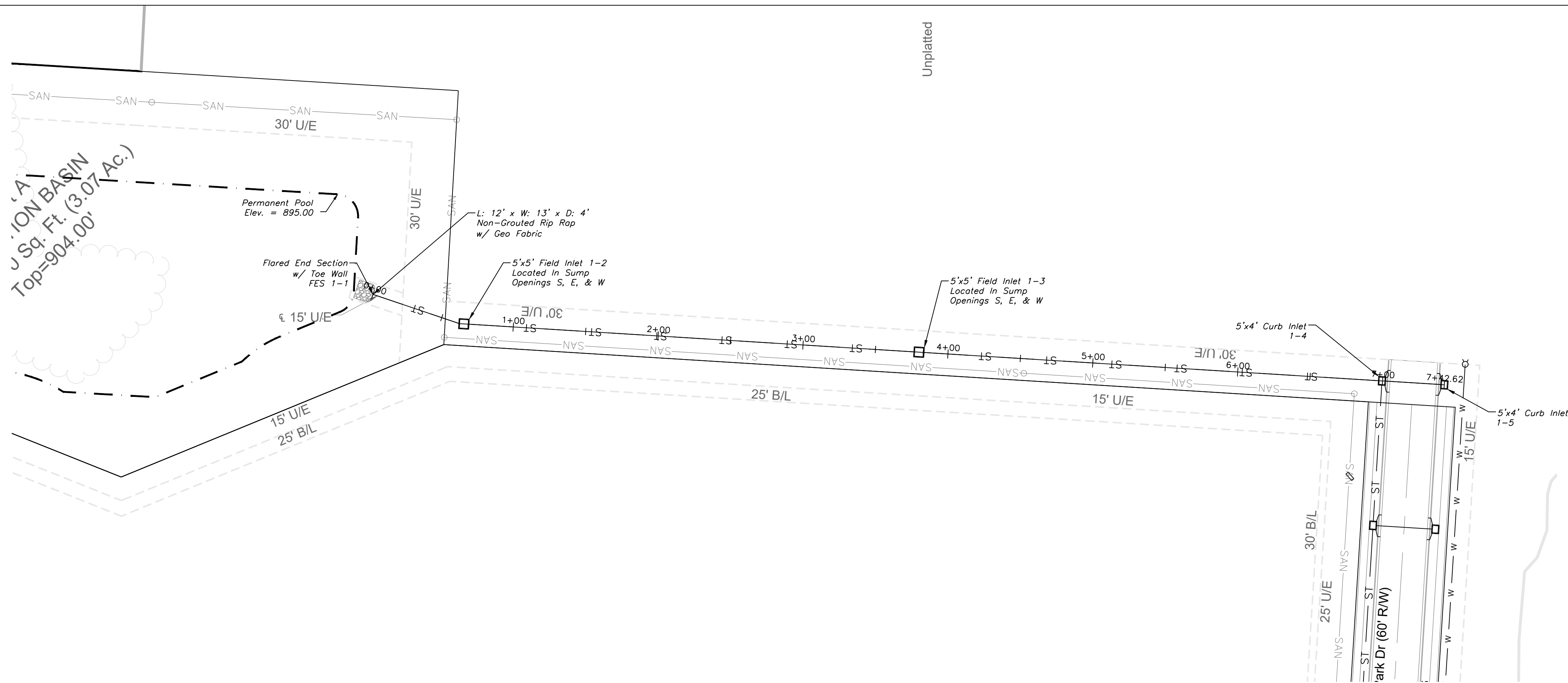
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MO PE 2006019708
KS PE 19071
OK PE 25226

REVISIONS
11/22/19 As-Built
8/2/2021 As-Built

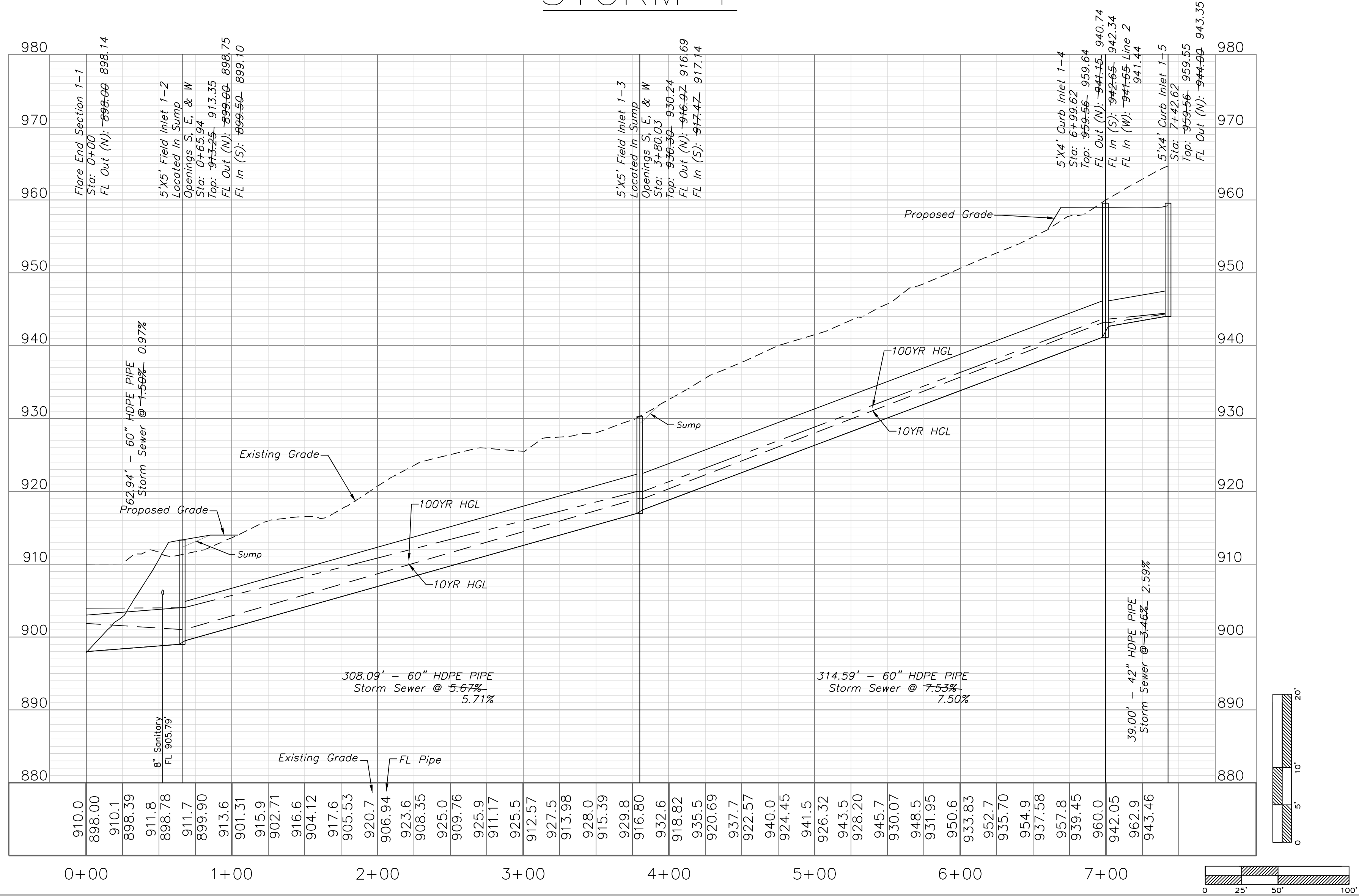
C. 300

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STORM 1



Field End Section #	1-1
$D_{50} = 0.2 \cdot D \cdot ((Q / \sqrt{RT}) \cdot ((g \cdot (D \cdot (2.5 \cdot (4/3)))) \cdot (D / Tw))$	
$Q = 189.68 \text{ cfs}$	$D_{50} = \text{riprap size, m(ft)}$
$D = 5 \text{ ft}$	$Q = \text{design discharge, m}^3/\text{s (ft}^3/\text{s)}$
$Tw = 5 \text{ ft}$	$D = \text{culvert diameter (circular), m(ft)}$
$g = 32.2 \text{ ft/s}^2$	$Tw = \text{tailwater depth, m(ft)}$
	$g = \text{acceleration due to gravity, 9.81 m/s}^2 \text{ (32.2 ft/s}^2\text{)}$
$D_{50} = 7.37 \text{ ft}$	
or	
$D_{50} = (0.692 / (S - 1)) \cdot ((V^2) / (2g))$	$S = \text{Riprap Specific Gravity}$
$V = 9.56 \text{ fps}$	$D_{50} = \text{Median Rock Size (ft)}$
$S = 1.6$	$V = \text{Velocity at the exit of the dissipater, (ft/s)}$
$D_{50} = 1.64 \text{ ft}$	
Apron Length = $7 \cdot D_{50}$	11.46 ft use 12.00 ft
Apron Depth = $2 \cdot D_{50}$	3.27 ft use 4.00 ft
Apron Width = $3 \cdot D_{50} + (2/3) \cdot L$	12.55 ft use 13.00 ft

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Kansas
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Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Village At View High
Lee's Summit, Jackson County, Missouri

Project:
View High Project
Issue Date:
November 22, 2019

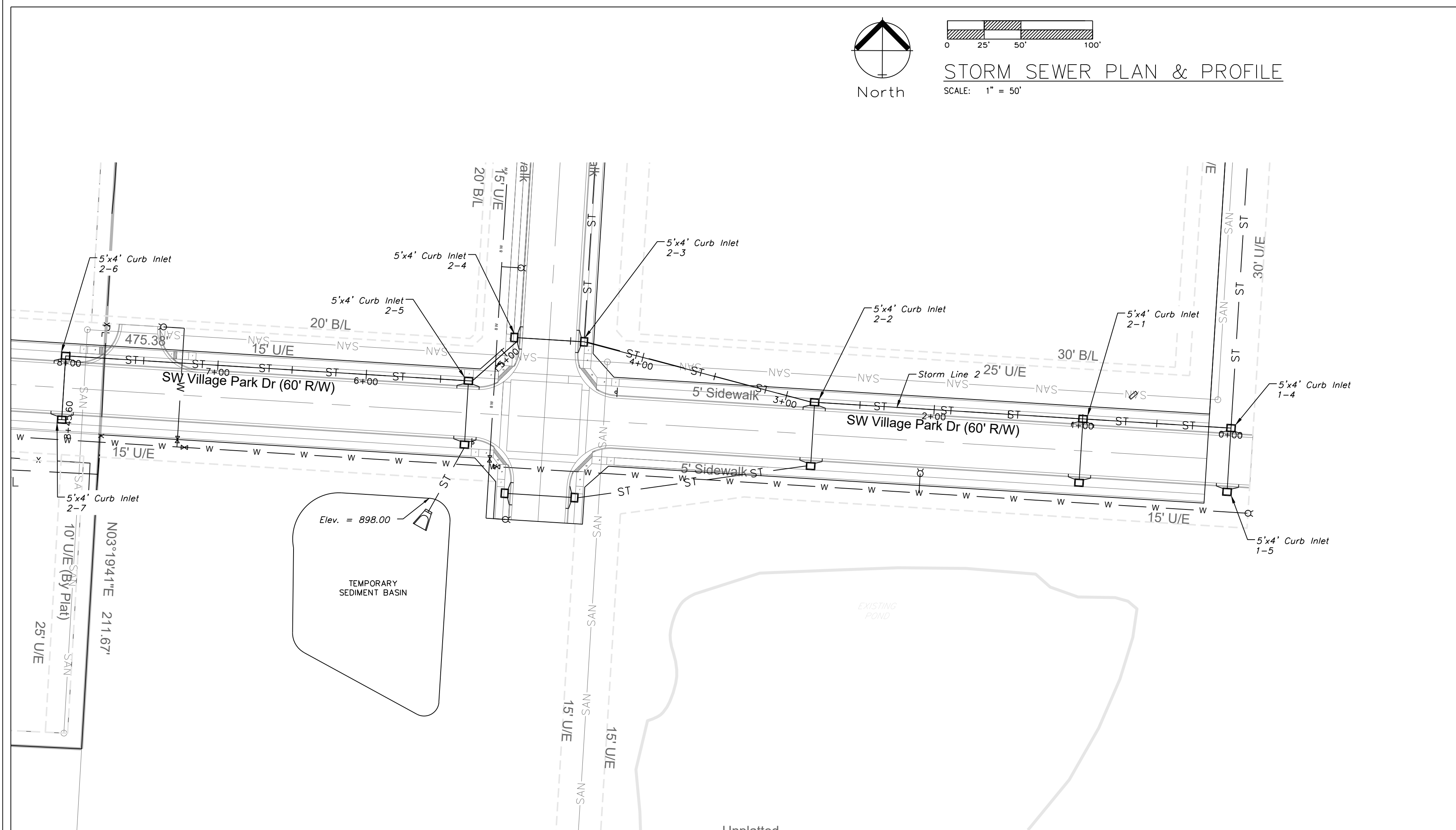
Storm Sewer Plan and Profile
Construction Plans for:
Village at View High
Lee's Summit, Jackson County, Missouri

STATE OF MISSOURI
MATTHEW J. SCHLICHT
PE 2006019708
KS PE 19071
OK PE 25226
Professional Engineer

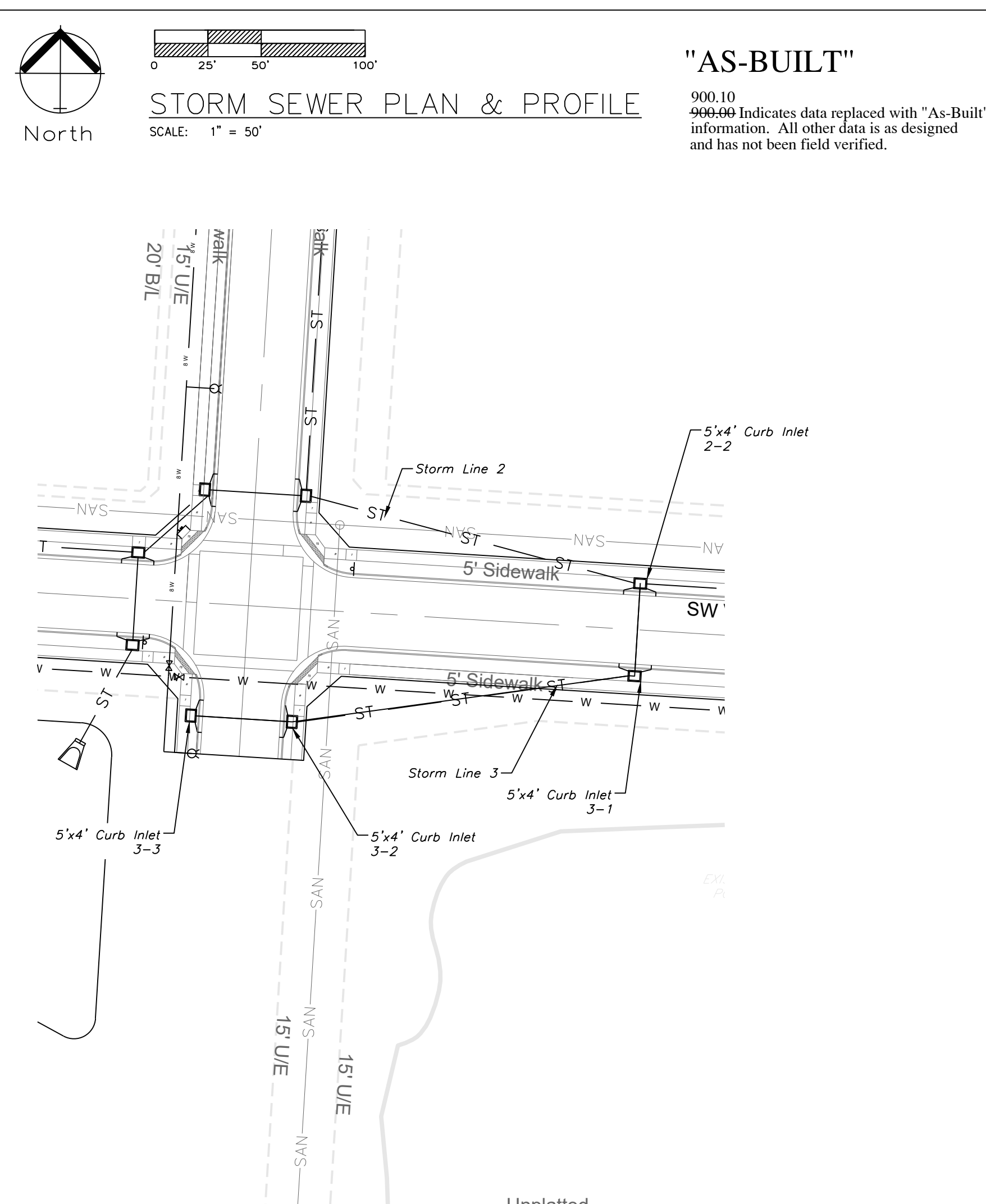
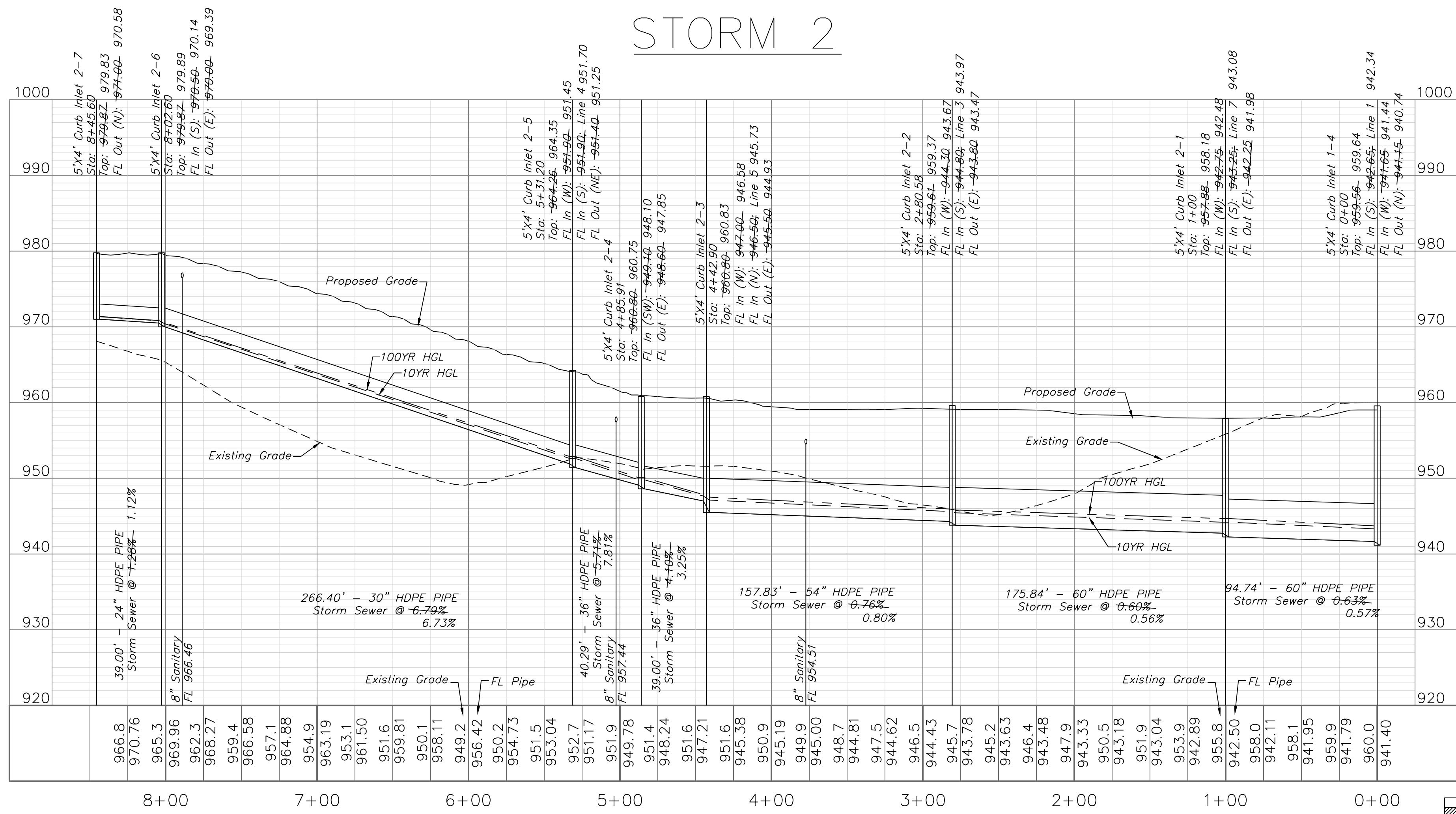
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

REVISIONS
11/22/19 As-Built
8/2/2021 As-Built

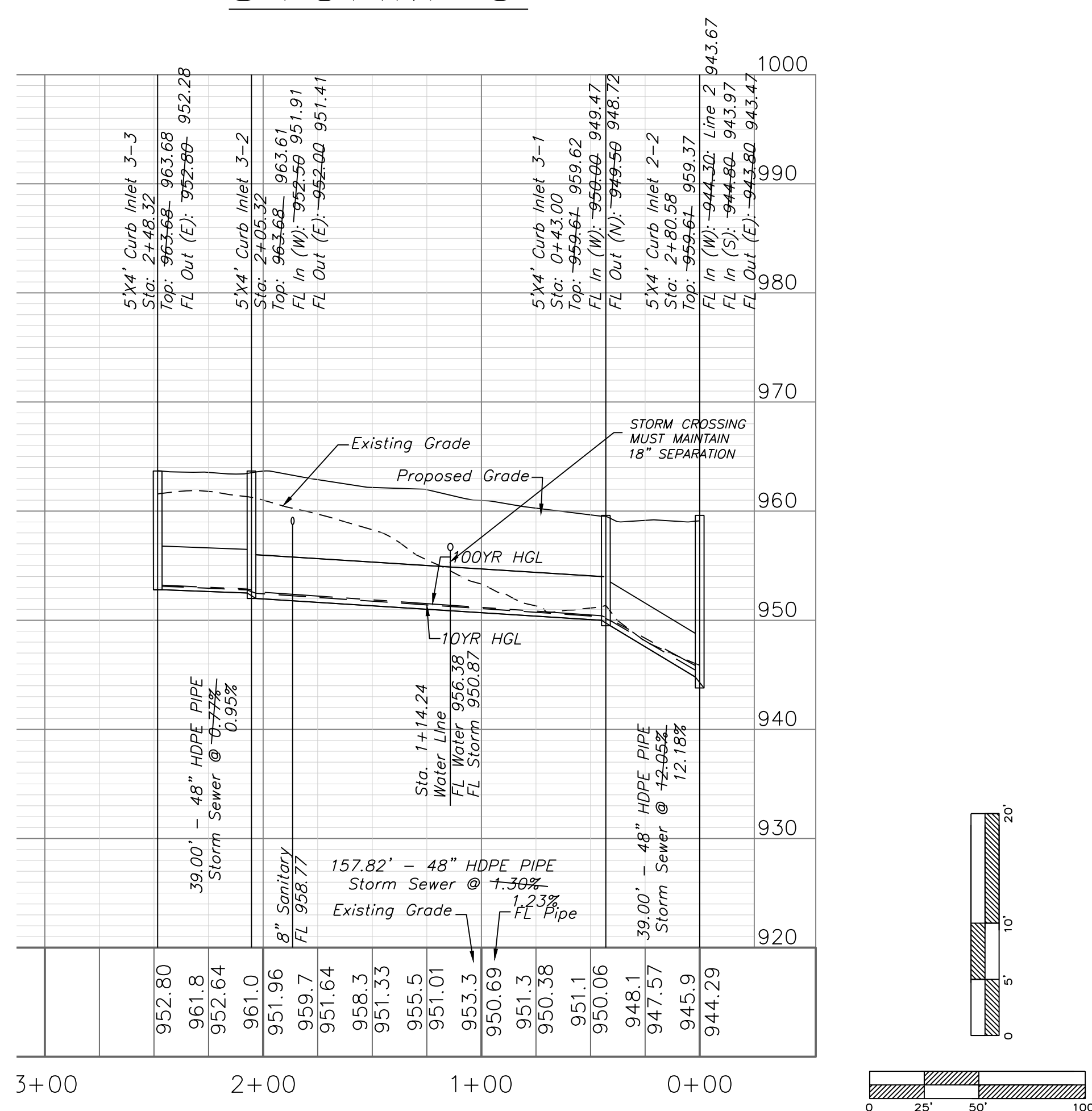
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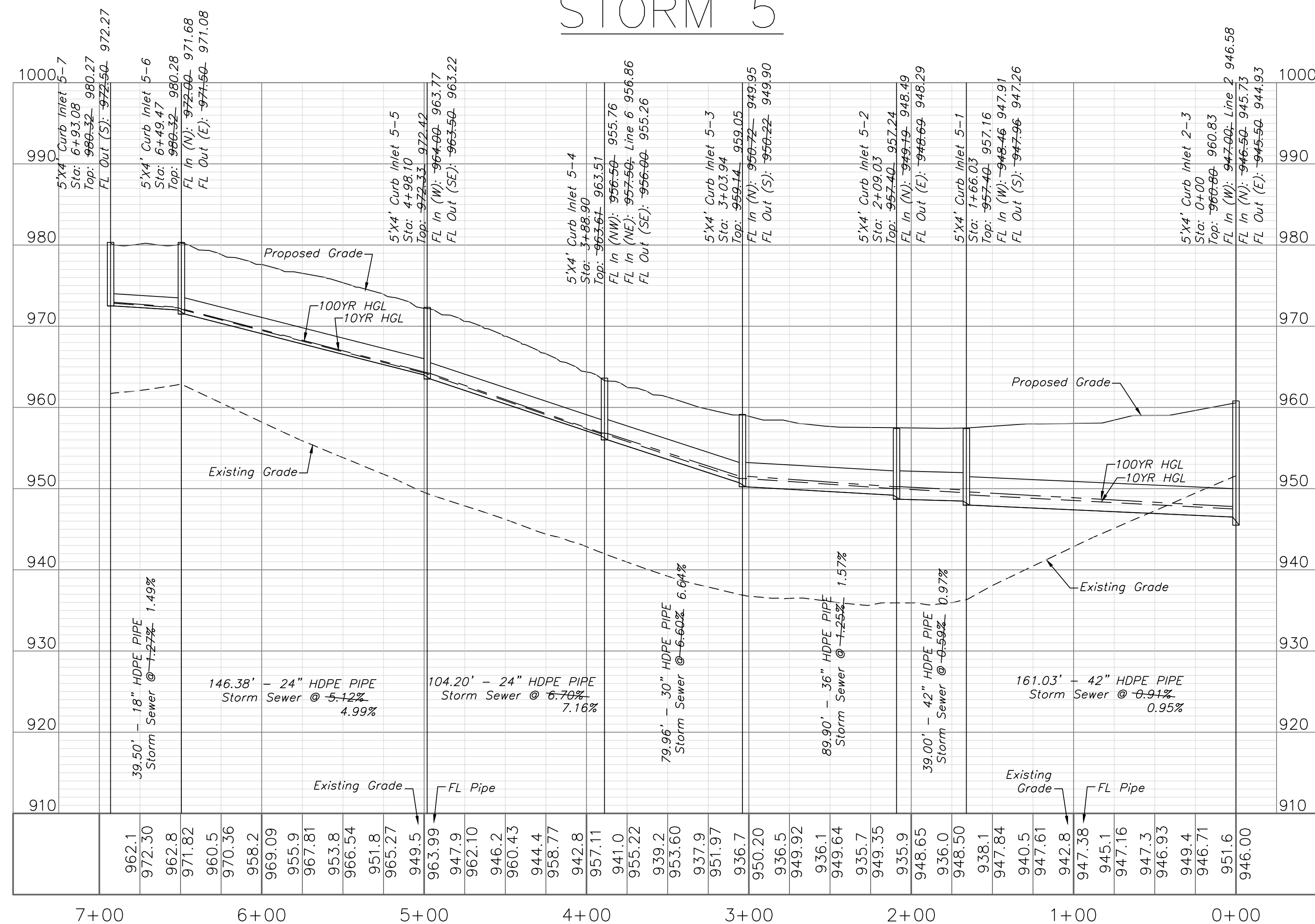
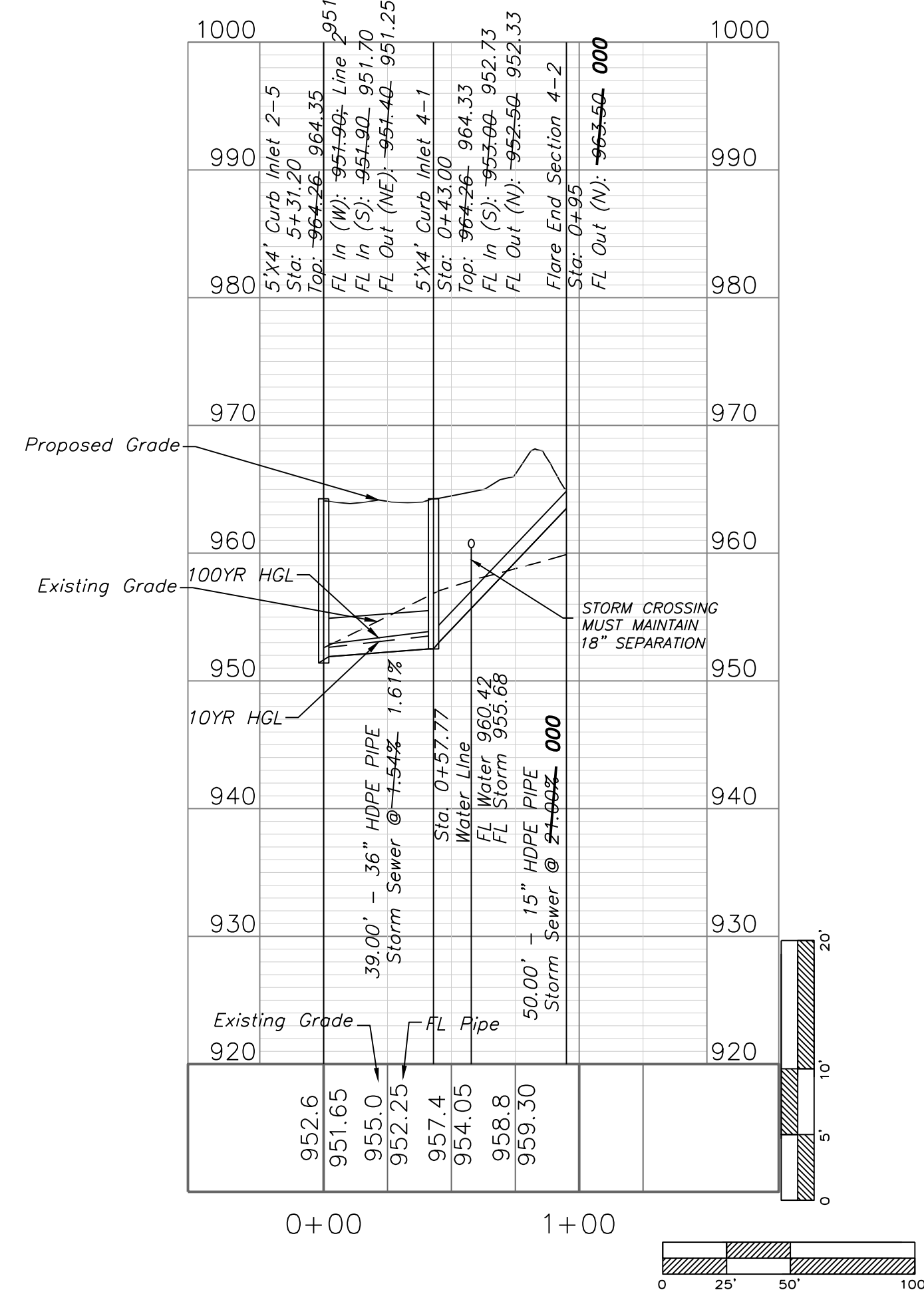
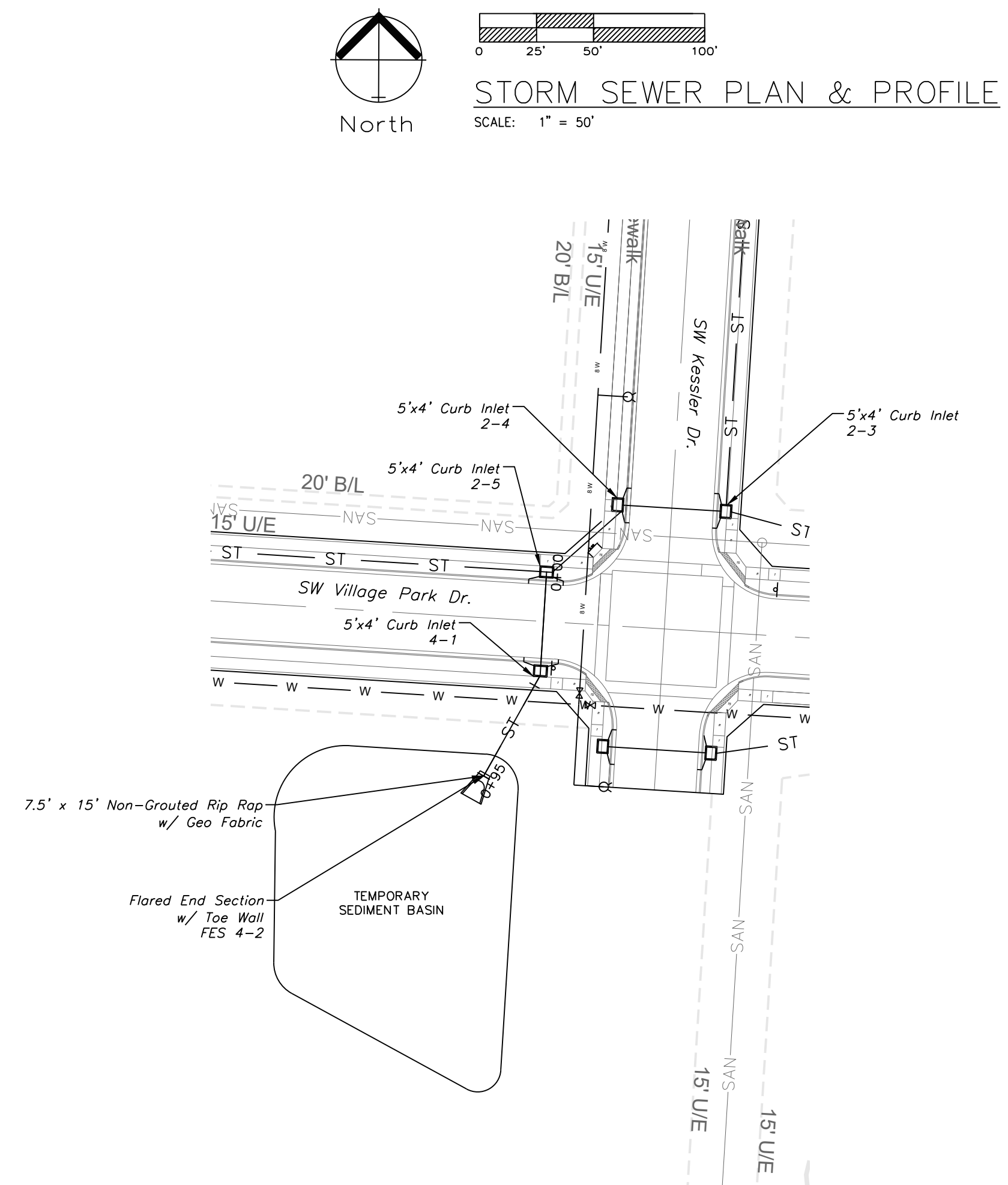


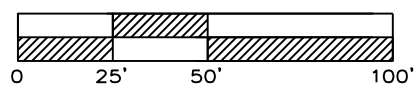
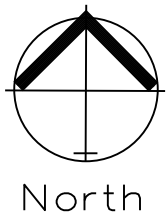
STORM 2



STORM 3

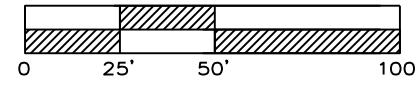
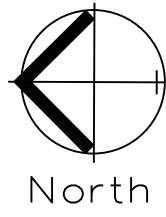
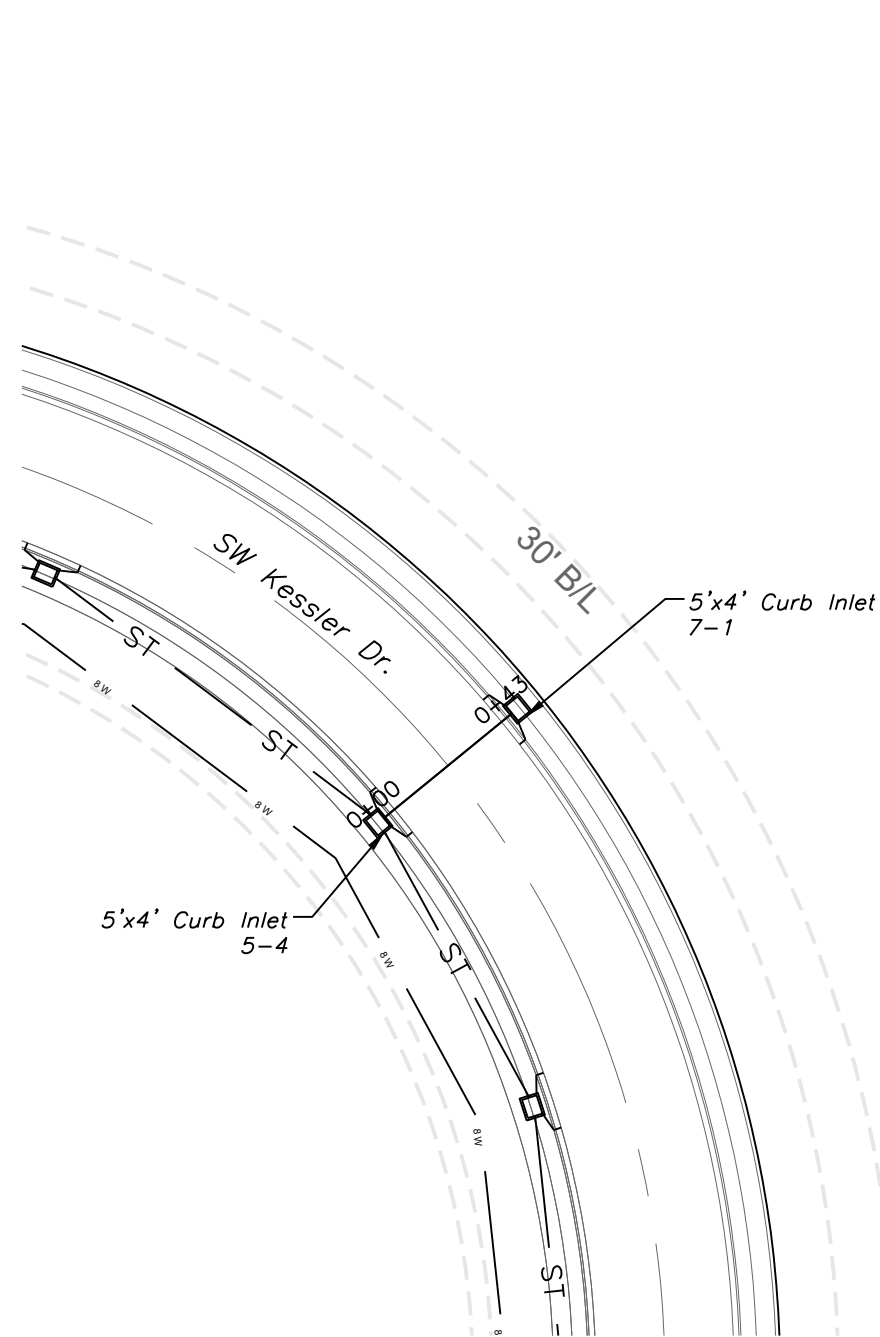






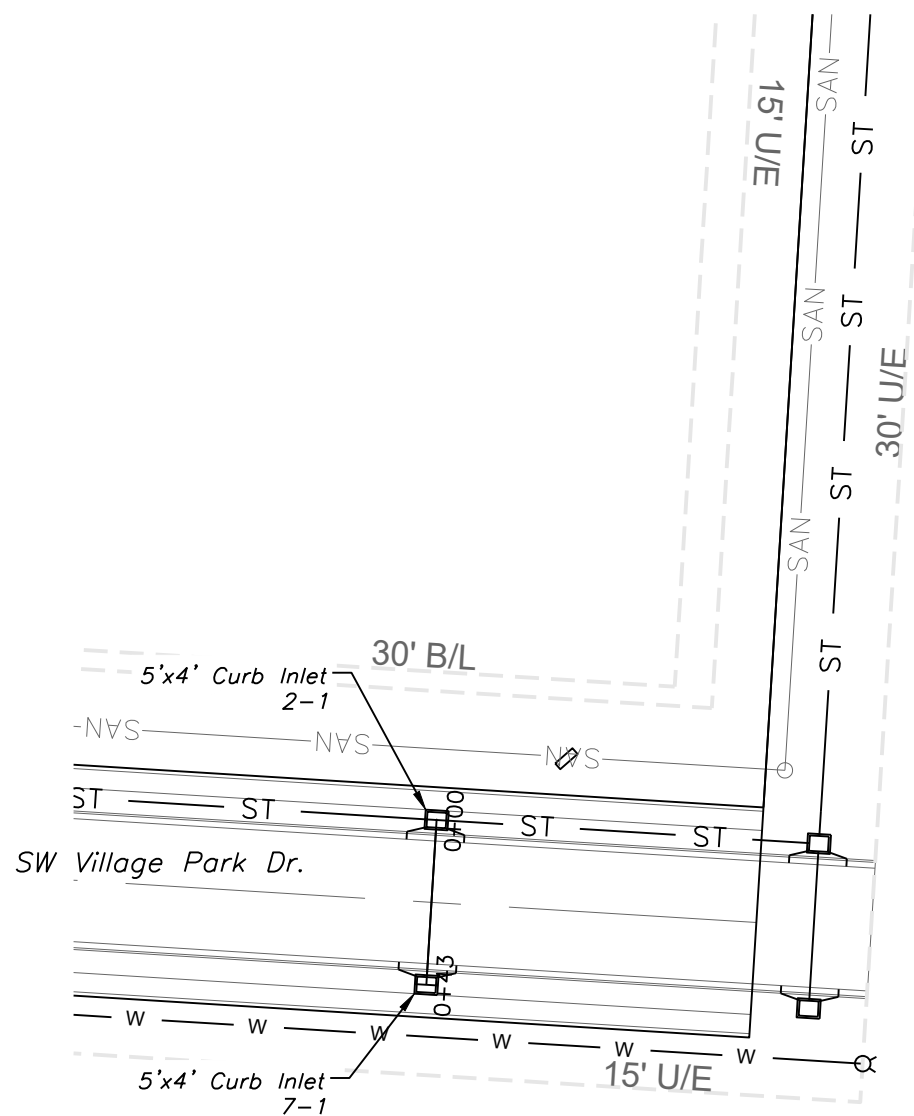
STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

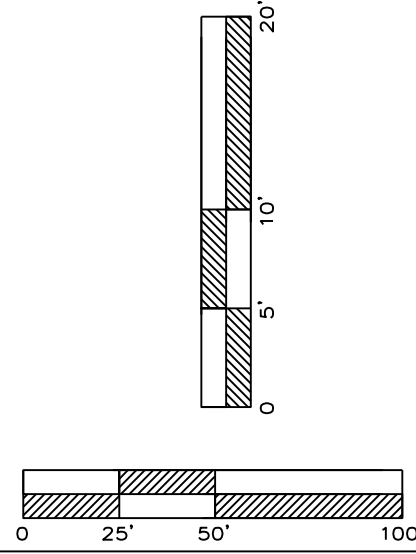
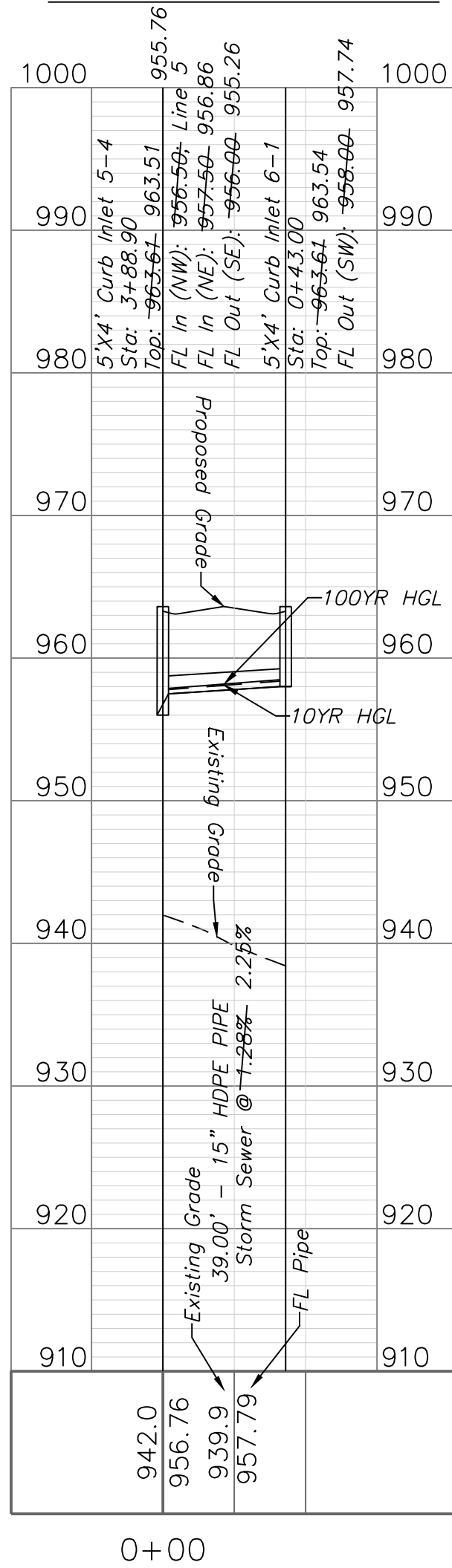


STORM SEWER PLAN & PROFILE

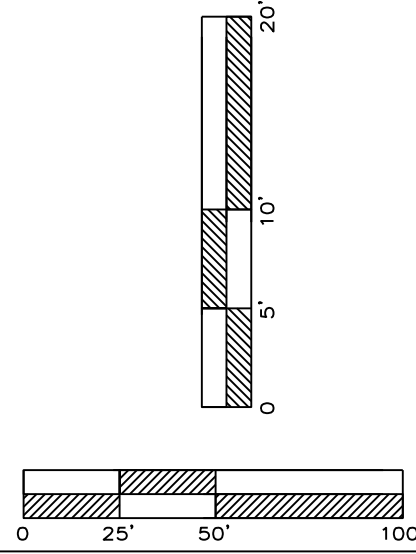
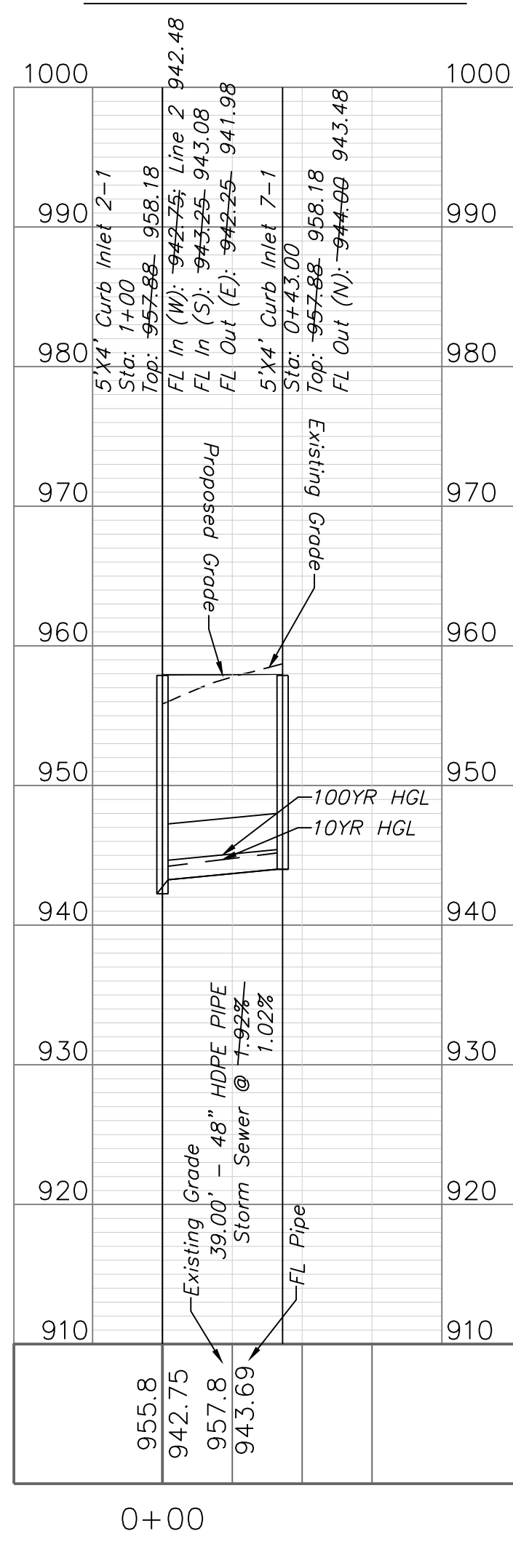
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STORM 6

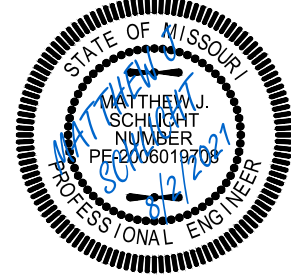


STORM 7



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KS PE 19071
OK PE 25226

REVISIONS	
11/22/19	As-Built
8/2/2021	As-Built