

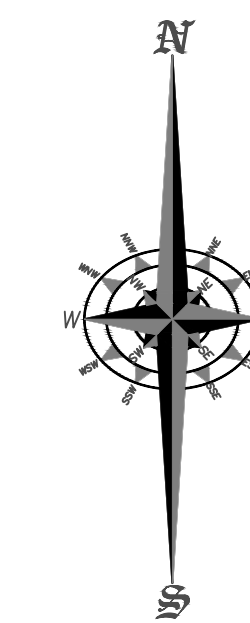


Google Earth

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 Sheet P-2: 10 Scale Horizontal Curve Geometry
 Sheet PP-1: Plan & Profile View of Proposed Lucy Lane
 Sheet CS-1: Cross Sections - Lucy Lane
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 Sheet D-2: Details
 Sheet D-3: Details
 Sheet D-4: Details
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4	Sheet N-1	5/29/24
NO.	REVISION	APPV'D DATE

Lucy Lane

Plan View
 Vicinity Map

DESIGNED BY	KAY
DRAWN BY	KAY/GH
CHECKED BY	JAJ
PROJECT NUMBER	23-9538

Jesik
 800 W. 8th Street
 Pueblo, Colorado 81003
 (719) 582-5588
 WWW.JESIK.US

DATE
 5/28/24

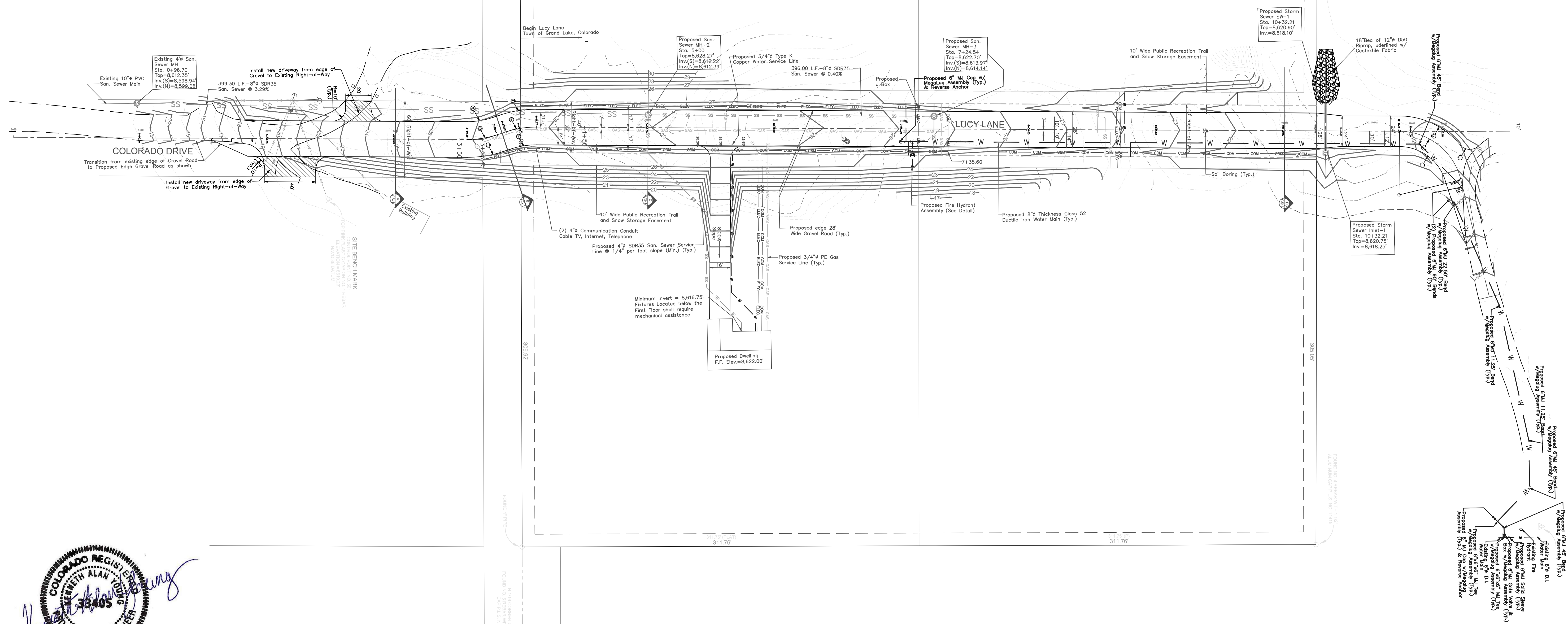
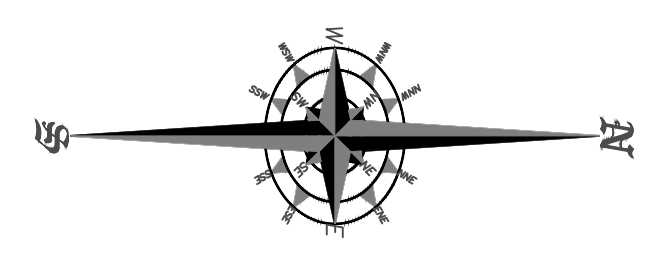
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 HORZ : 1"=500'
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SHEET
 Cover
 SHEET OF

5/29/2024

LEGEND

- Existing Contour (1')
- Existing Contour (5')
- Proposed Contour (1')
- Existing Sanitary Sewer Main
- Existing Potable Water Main
- Proposed Sanitary Sewer Main
- Proposed Potable Water Main
- Proposed Gas Main
- Proposed Storm Sewer/Culvert
- Proposed Underground Electric
- Proposed Underground Commur
- Proposed Right-of-Way
- Existing/Proposed Easement
- Proposed Edge Gravel Road



5	Utilities	5/28/24	1	Lucy Lane	11/10/23
6	Utilities	5/29/24	2	Lucy Lane	12/20/23
			3	Lucy Lane	1/03/24
			4	Lucy Lane Utilities	1/31/24
			NO.	REVISION	APPV'D DATE

Lucy Lane
Plan View
Site Grading
and Utilities

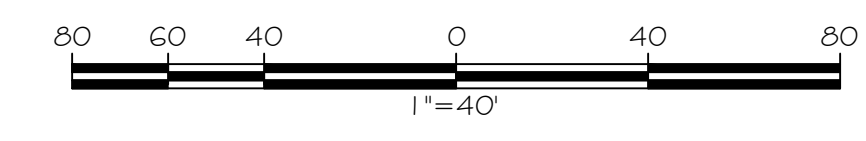
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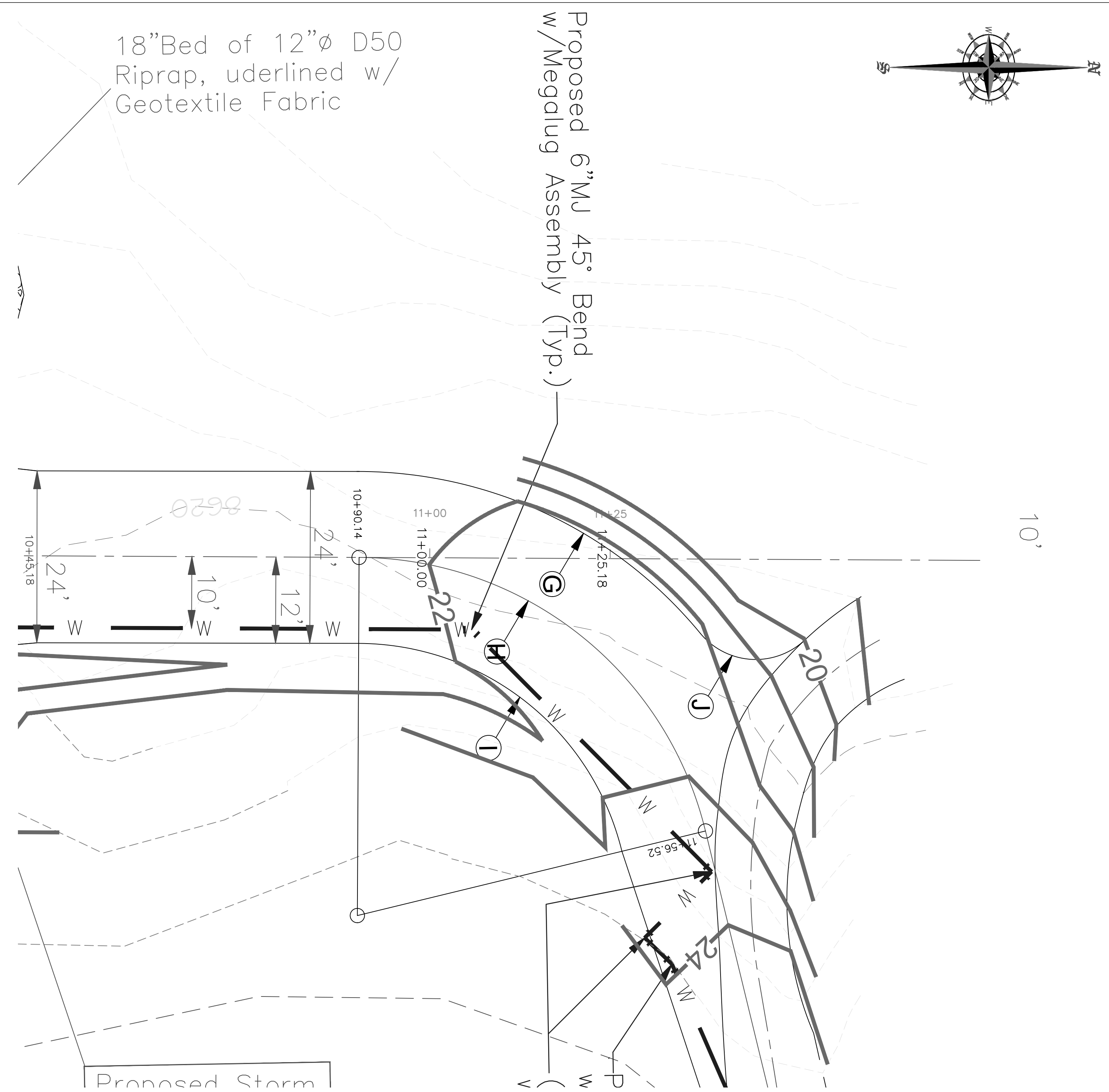
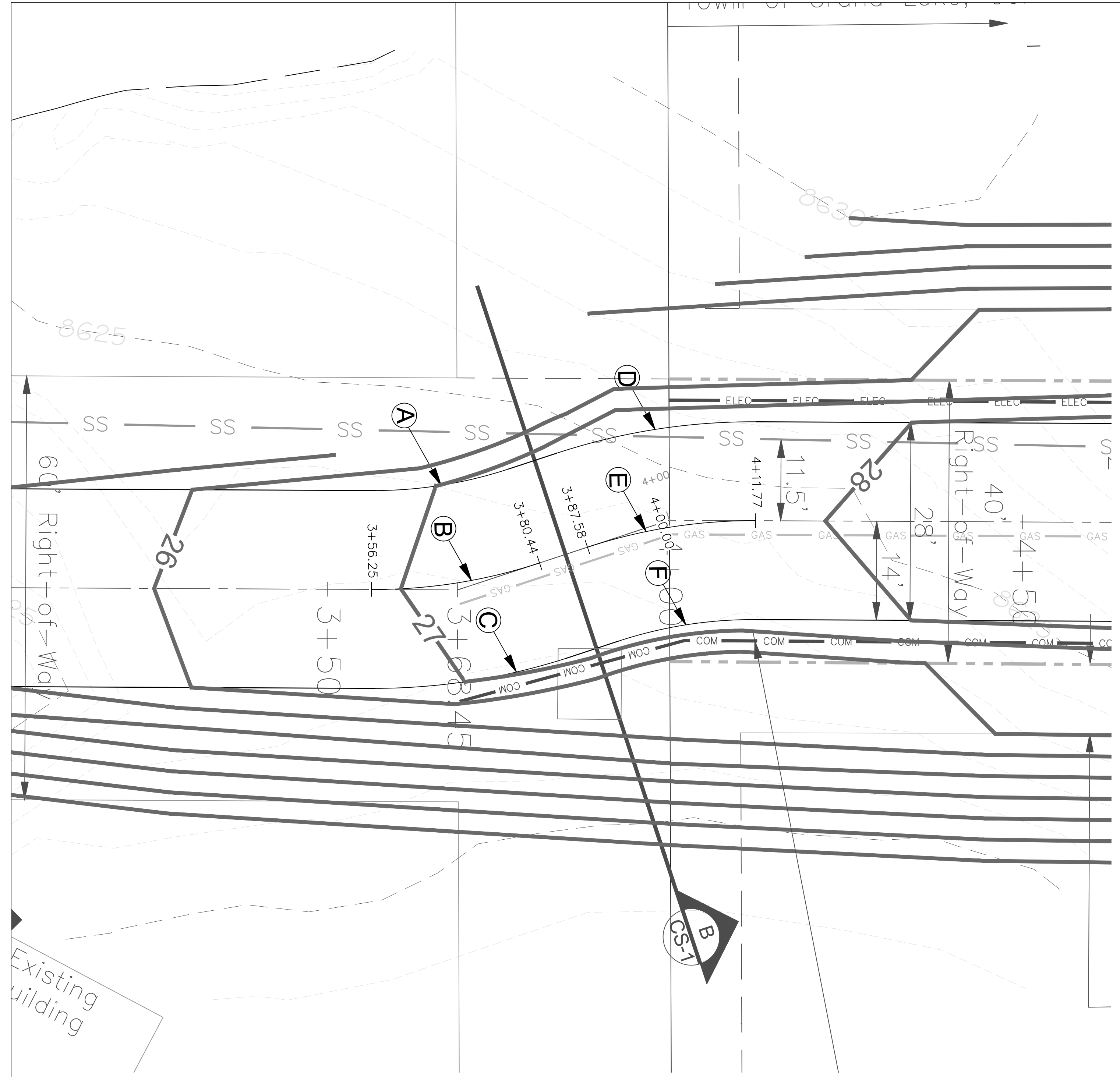
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5/29/24

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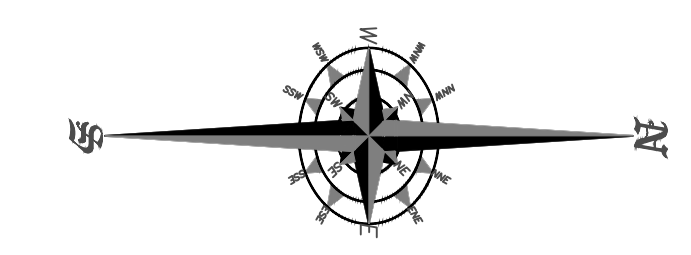
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P-1
SHEET OF



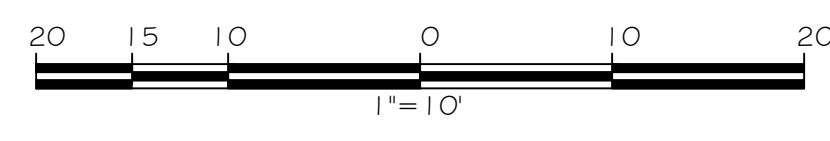
5/29/2024



Curve	Sta PC	Sta PT	D	R	L	Δ	Δ/2	T	LC	LC Bearing
Horiz. Curve Designation	Pt. of Curvature	Pt. of Tangency	Degree of Curvature (Degrees/100 ft.)	Radius in feet	Length of Curve (ft.)	Central Angle (Decimal Degrees)	1/2 Central Angle (Decimal Degrees)	Tangent Length (ft.)	Long Chord (ft.)	Long Chord Bearing
A	356.25	380.44	93.93	61.00	19.68	18.48	9.24	9.93	19.59	N 7°57'55" E
B	356.25	380.44	76.39	75.00	24.19	18.48	9.24	12.20	24.09	N 7°57'55" E
C	356.25	380.44	64.38	89.00	28.71	18.48	9.24	14.48	28.59	N 7°57'55" E
D	387.58	411.77	93.93	61.00	19.68	18.48	9.24	9.93	19.59	N 7°57'55" E
E	387.58	411.77	76.39	75.00	24.19	18.48	9.24	12.20	24.09	N 7°57'55" E
F	387.58	411.77	64.38	89.00	28.71	18.48	9.24	14.48	28.59	N 7°57'55" E
G	1090.14	1134.01	92.41	62.00	54.79	50.63	25.32	29.33	53.02	N 39°18'36" E
H	1090.14	1156.52	114.59	50.00	66.38	76.07	38.03	39.11	61.61	N 39°18'36" E
I	1090.14	1156.52	150.78	38.00	50.45	76.07	38.03	29.72	46.83	N 39°18'36" E
J			572.96	10.00	16.36	93.77	46.88	10.68	14.60	N 4°40'13" E



5/29/2024



DESIGNED BY	KAY	5/28/24	11/10/23
DRAWN BY	KAY/GH	5/29/24	12/20/23
CHECKED BY	JAJ		1/03/24
PROJECT NUMBER	23-9538		1/31/24
Lucy Lane			
Plan View			
Horizontal Curve			
Geometry			
NO.	REVISION	DATE	APPV'D
1	Lucy Lane	11/10/23	
2	Lucy Lane	12/20/23	
3	Lucy Lane	1/03/24	
4	Lucy Lane Utilities	1/31/24	

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5/29/24

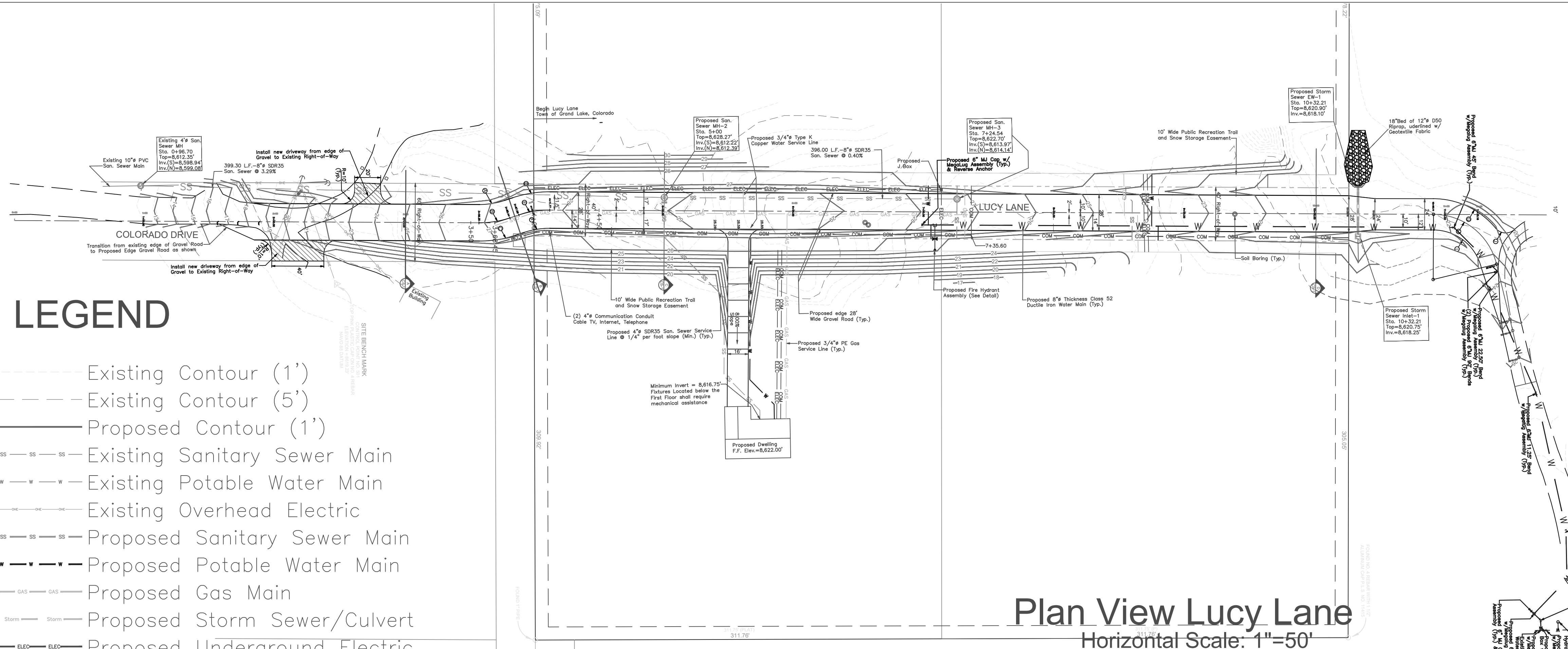
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SHEET
P-2

SHEET OF

LEGEND

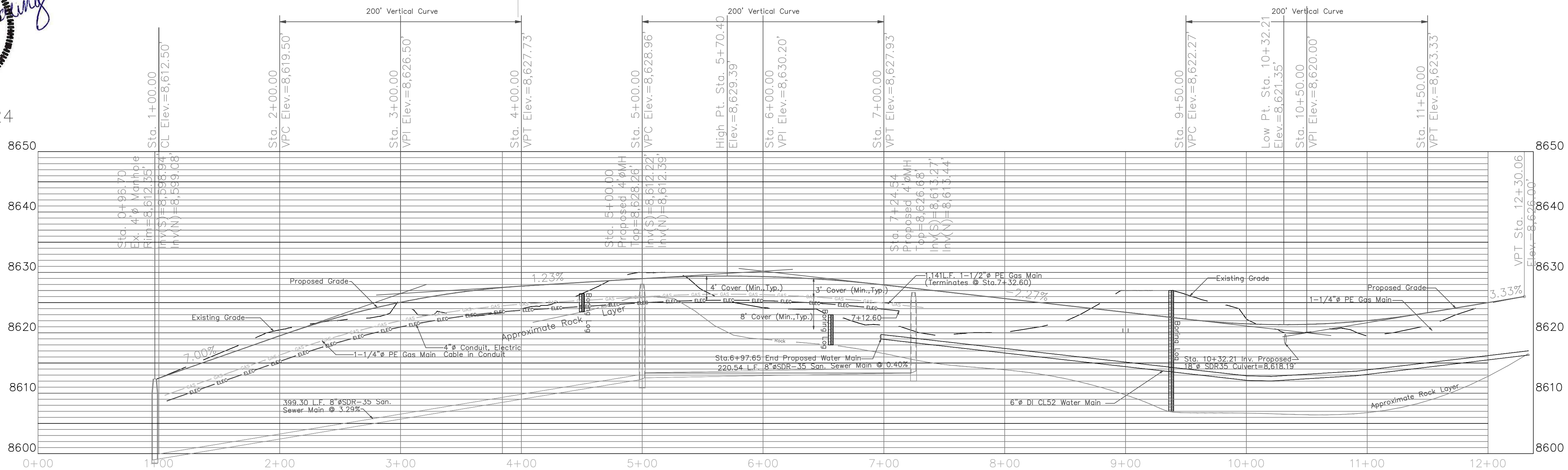
- Existing Contour (1')
- Existing Contour (5')
- Proposed Contour (1')
- Existing Sanitary Sewer Main
- Existing Potable Water Main
- Existing Overhead Electric
- Proposed Sanitary Sewer Main
- Proposed Potable Water Main
- Proposed Gas Main
- Proposed Storm Sewer/Culvert
- Proposed Underground Electric
- Proposed Underground Communication
- Proposed Right-of-Way
- Existing/Proposed Easement



Plan View Lucy Lane
Horizontal Scale: 1"=50'



5/29/2024



Profile View Lucy Lane Horizontal Scale: 1"=50'
Vertical Scale: 1"=10'

DESIGNED BY	KAY	11/10/23
DRAWN BY	KAY/GH	12/20/23
CHECKED BY	JAJ	1/03/24
PROJECT NUMBER	23-9538	1/31/24
Lucy Lane		NO. REVISION
Plan and Profile View		APPV'D DATE
5 Utilities	5/28/24	1
6 Utilities	5/29/24	2
		3
		4

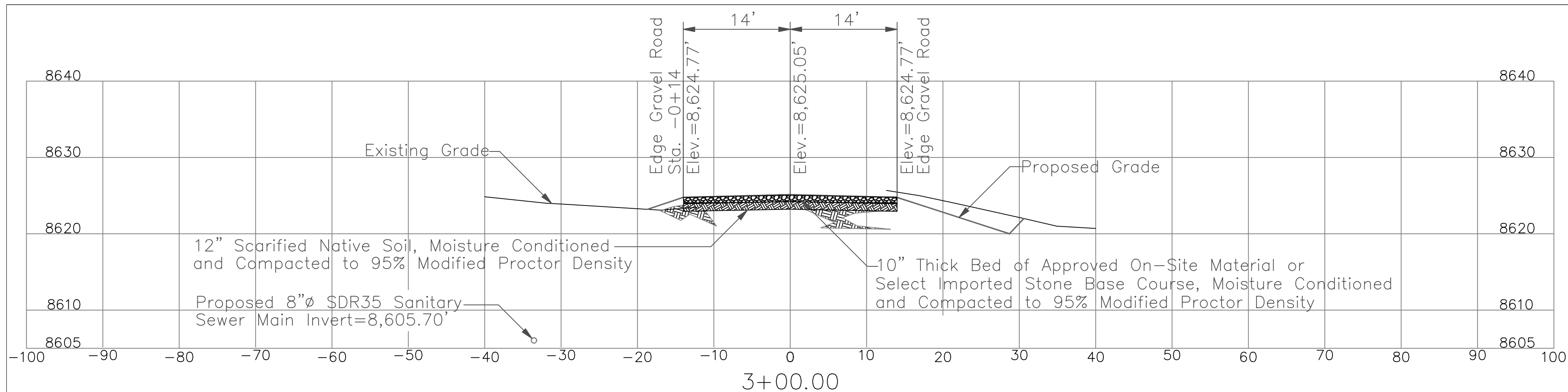
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DATE
5/29/24

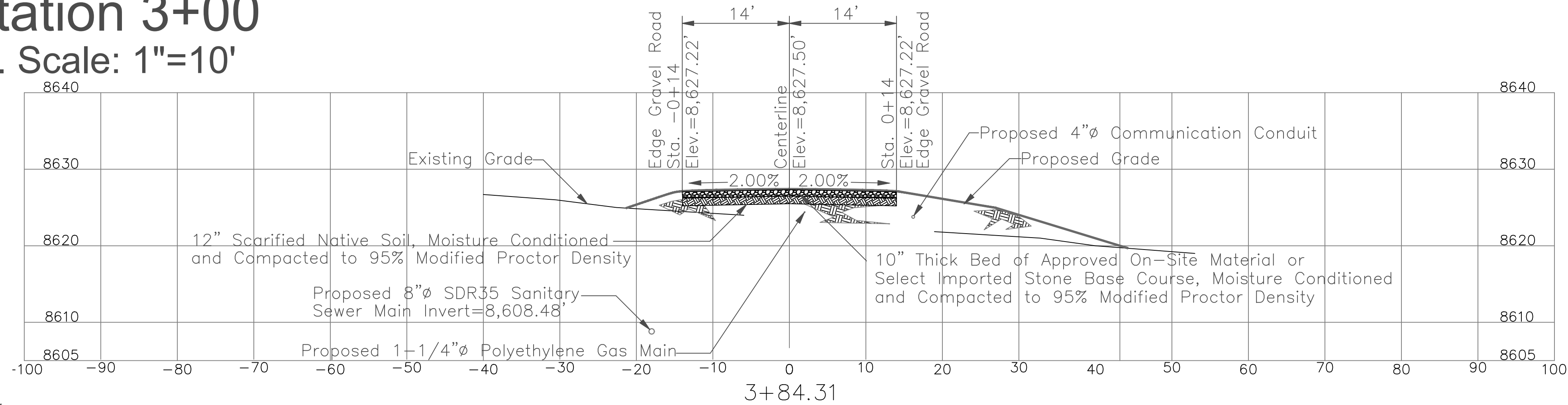
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SHEET
PP-1

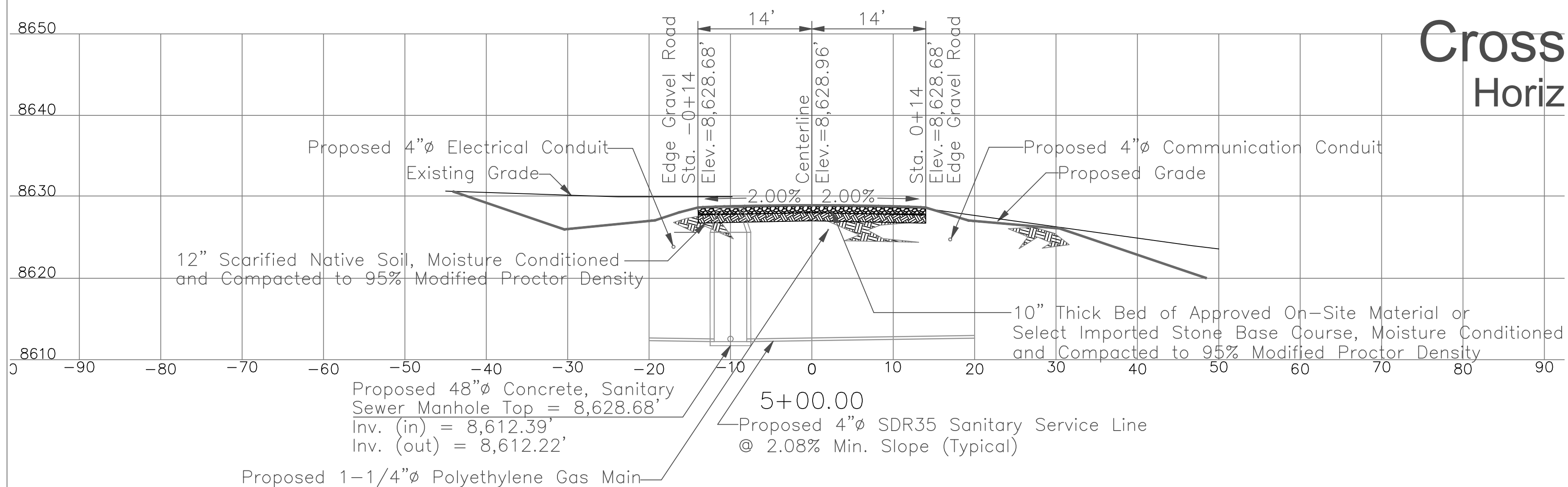
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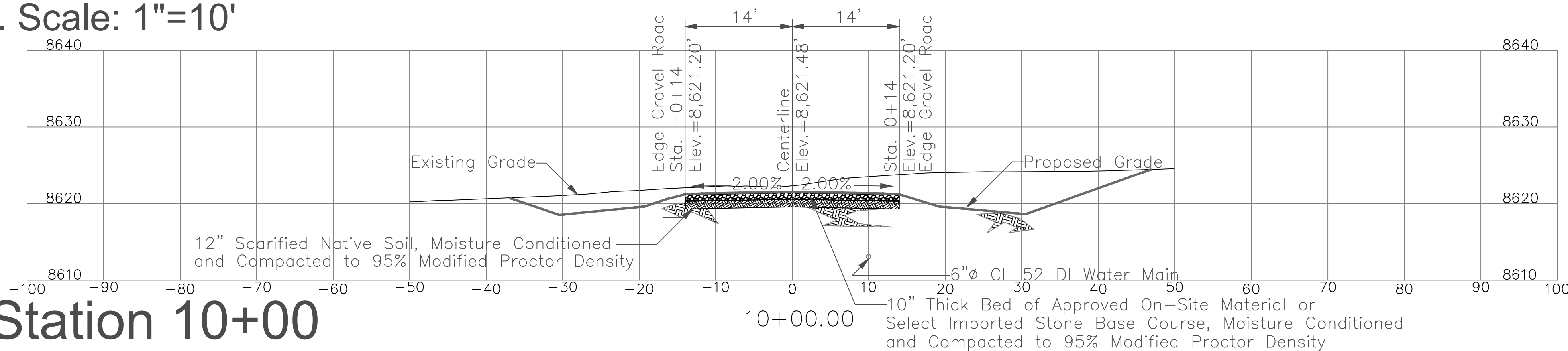
Cross Section A - Station 3+00
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Cross Section B - Station 3+84.31
 Horiz. Scale: 1"=10', Vert. Scale: 1"=10'



Cross Section C - Station 5+00
 Horiz. Scale: 1"=10', Vert. Scale: 1"=10'



Cross Section D - Station 10+00
 Horiz. Scale: 1"=10', Vert. Scale: 1"=10'



5/29/2024

1	Utilities	5/28/24
2	Utilities	5/29/24
3		
4		
NO.	REVISION	APPV'D DATE

Lucy Lane

Cross Sections

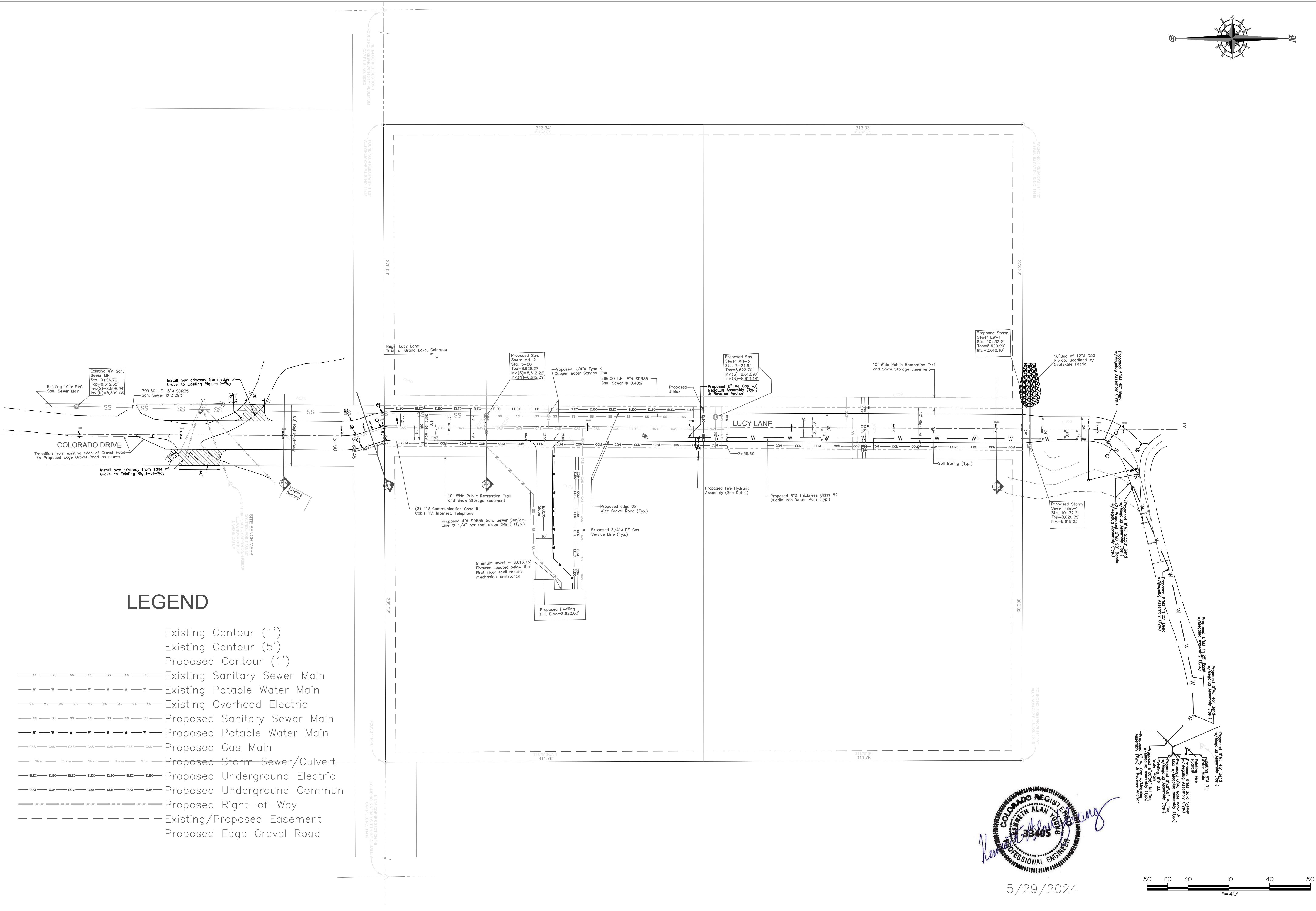
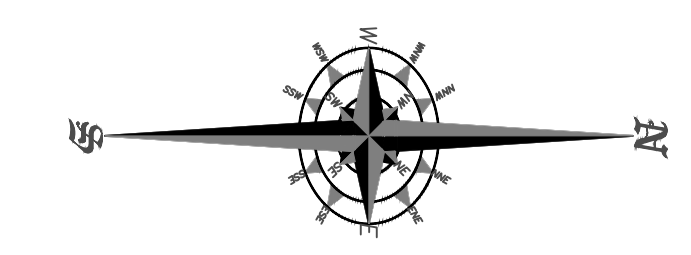
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DRAWN BY	KAY/GH
CHECKED BY	JAJ
PROJECT NUMBER	23-9538

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DATE
 5/29/24

SCALE
 HORZ : 1"=10'
 VERT : 1"=10'

SHEET
 CS-1
 SHEET OF



LEGEND

- Existing Contour (1')
- Existing Contour (5')
- Proposed Contour (1')
- Existing Sanitary Sewer Main
- Existing Potable Water Main
- Existing Overhead Electric
- Proposed Sanitary Sewer Main
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- Proposed Right-of-Way
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- Proposed Edge Gravel Road

1	Utilities	5/28/24
2	Utilities	5/29/24
3		
4		
NO.	REVISION	APPV'D DATE

Lucy Lane Plan View Proposed Utility Installations

DESIGNED BY	KAY
DRAWN BY	KAY/GH
CHECKED BY	JAJ
PROJECT NUMBER	23-9538


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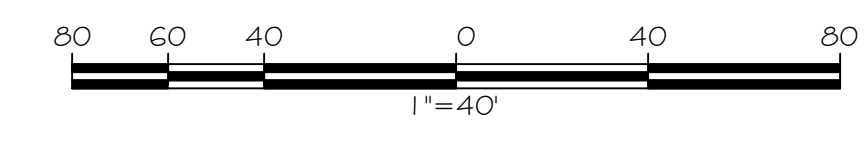
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5/29/24

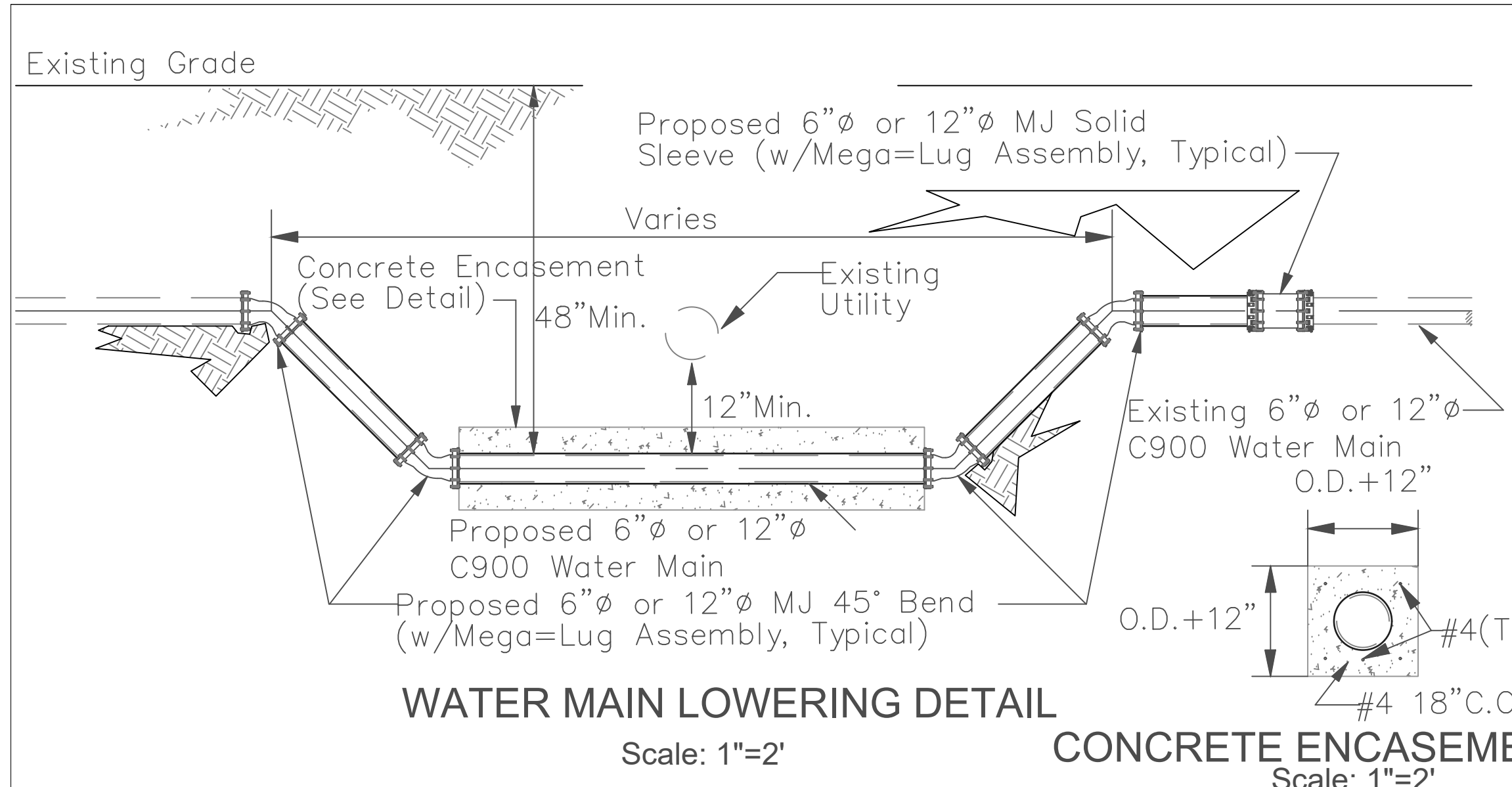
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U-1
SHEET OF



5/29/2024



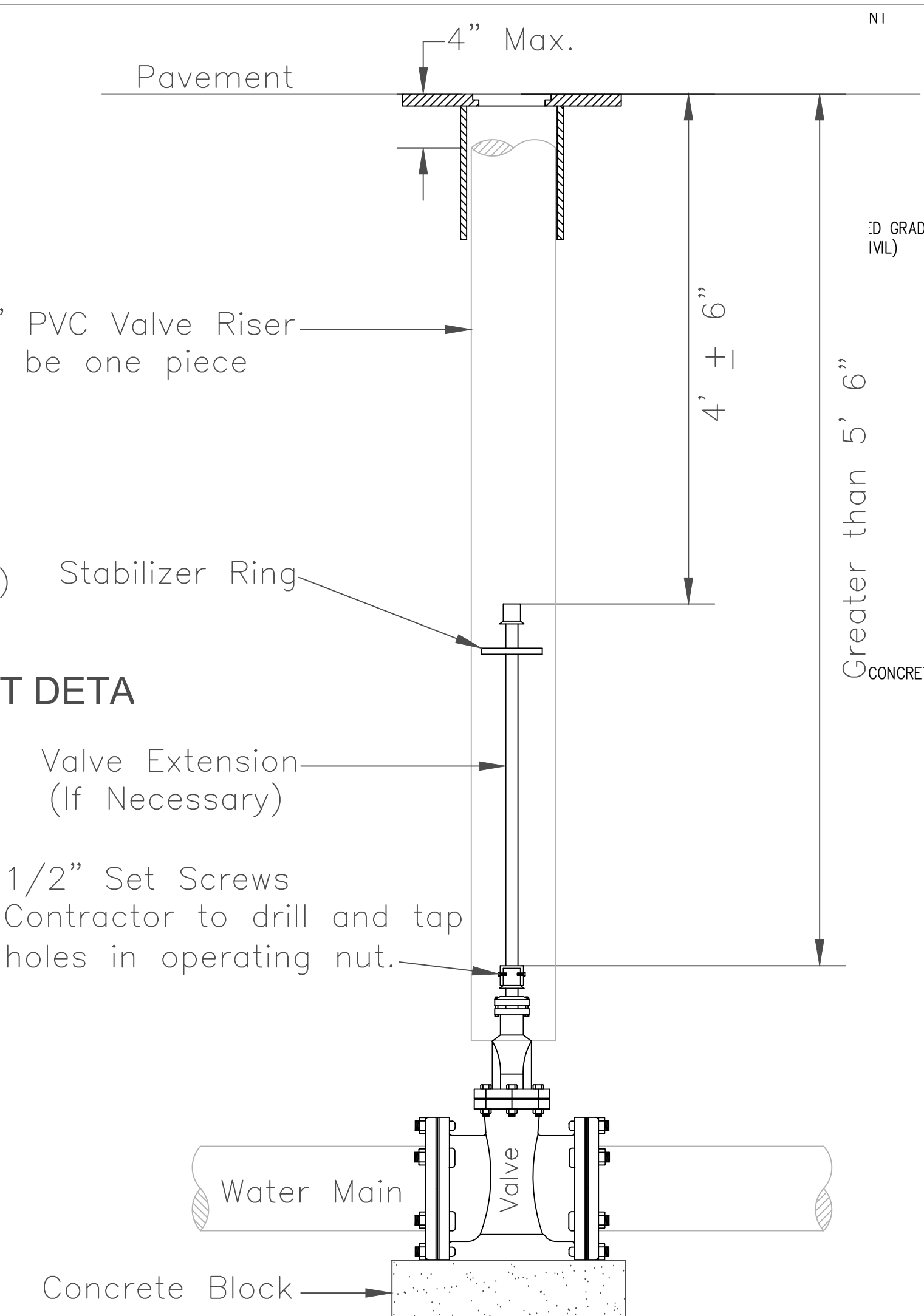


WATER MAIN LOWERING DETAIL

Scale: 1"=2'

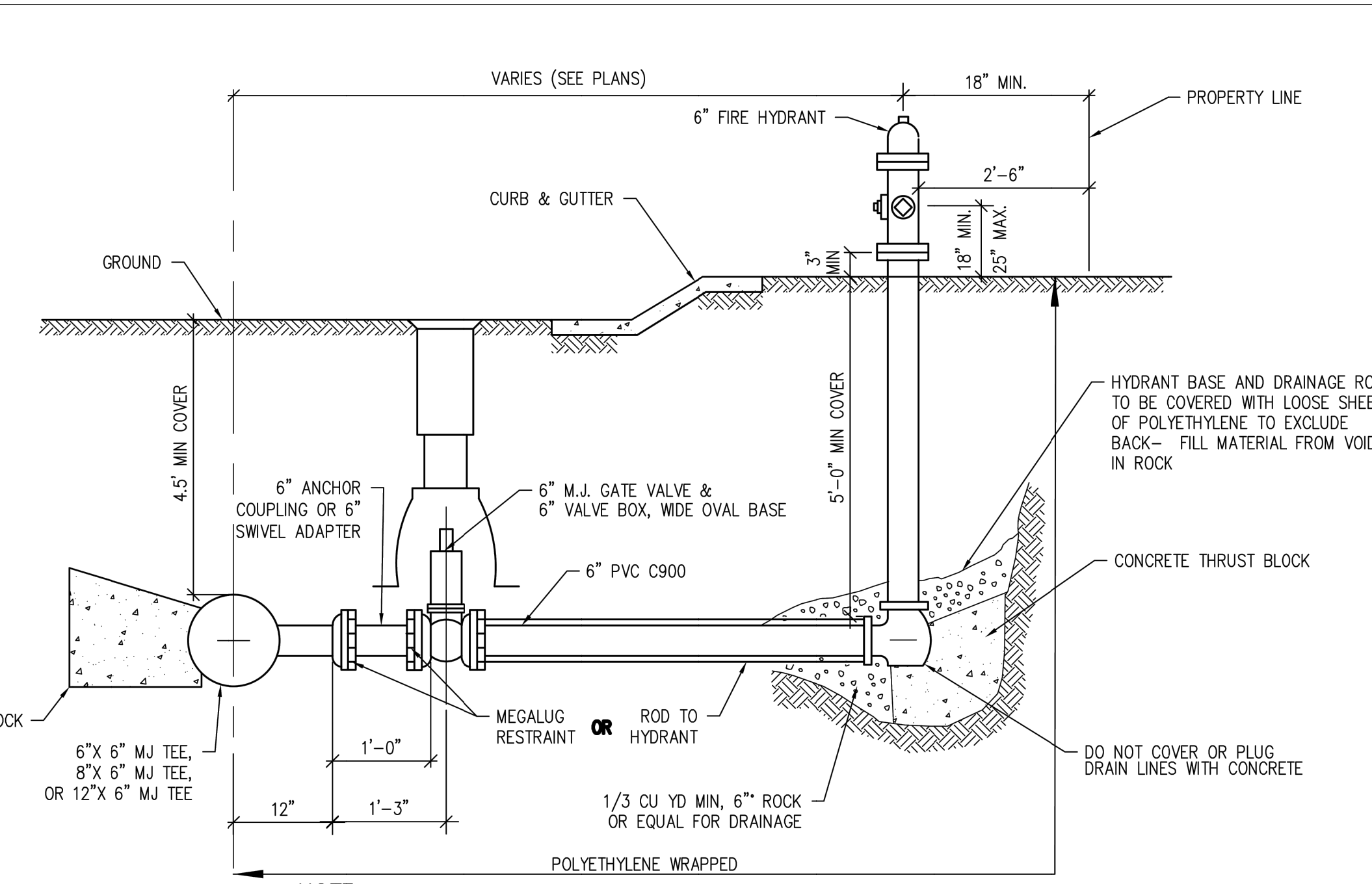
CONCRETE ENCASEMENT DETAIL

Scale: 1"=2'



Valve Installation Detail

NOT TO SCALE



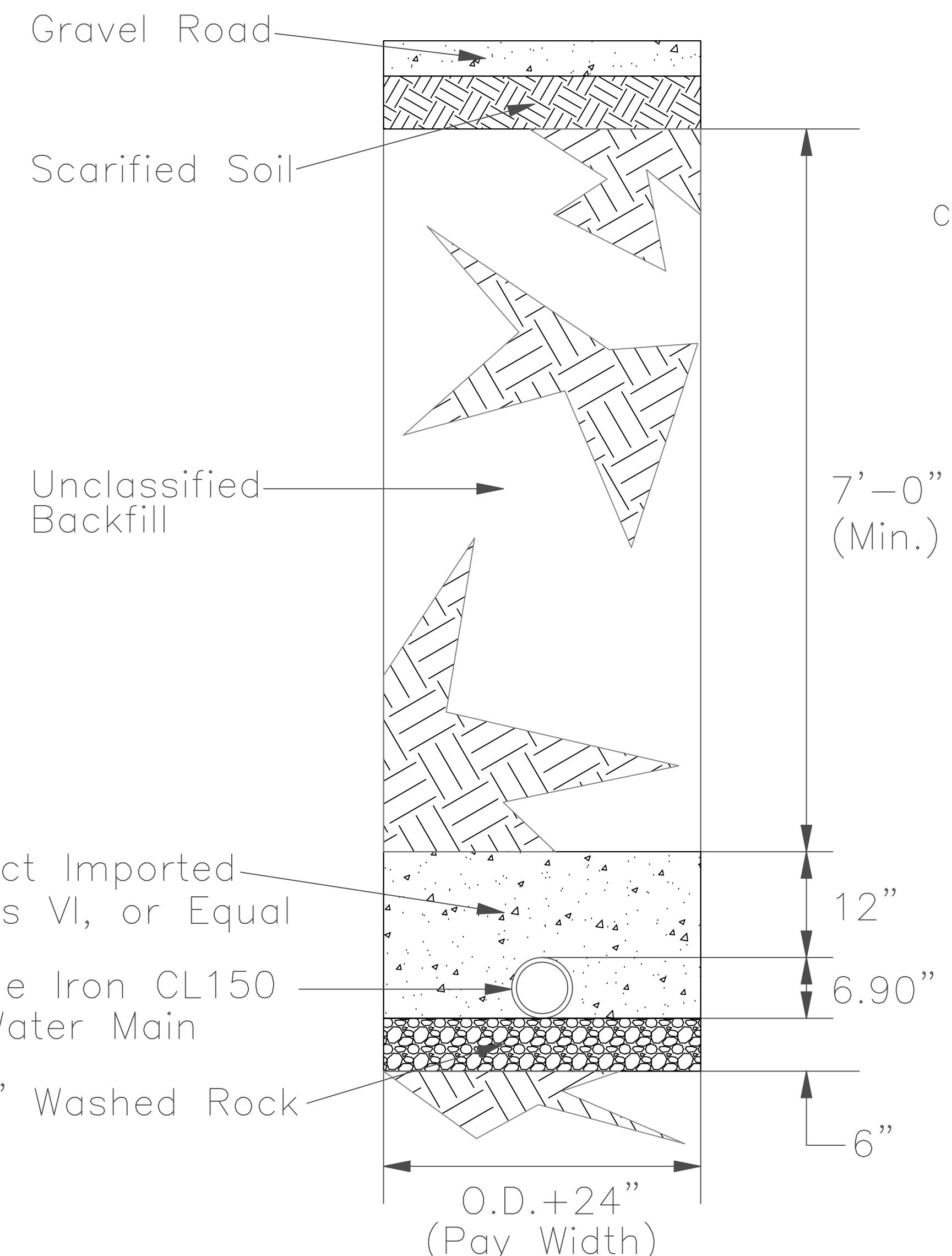
Fire Hydrant Assembly Detail

Not to Scale

- NOTE:**
1. ALTERNATE TO THE ABOVE, FASTEN MJ VALVE DIRECTLY TO A MJ ANCHOR TEE (ALSO CALLED SWIVEL TEE)
 2. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH OR SPRINKLER LINES
 3. NO PORTION OF THE FIRE HYDRANT MAY PROTRUDE INTO SIDEWALK AREA

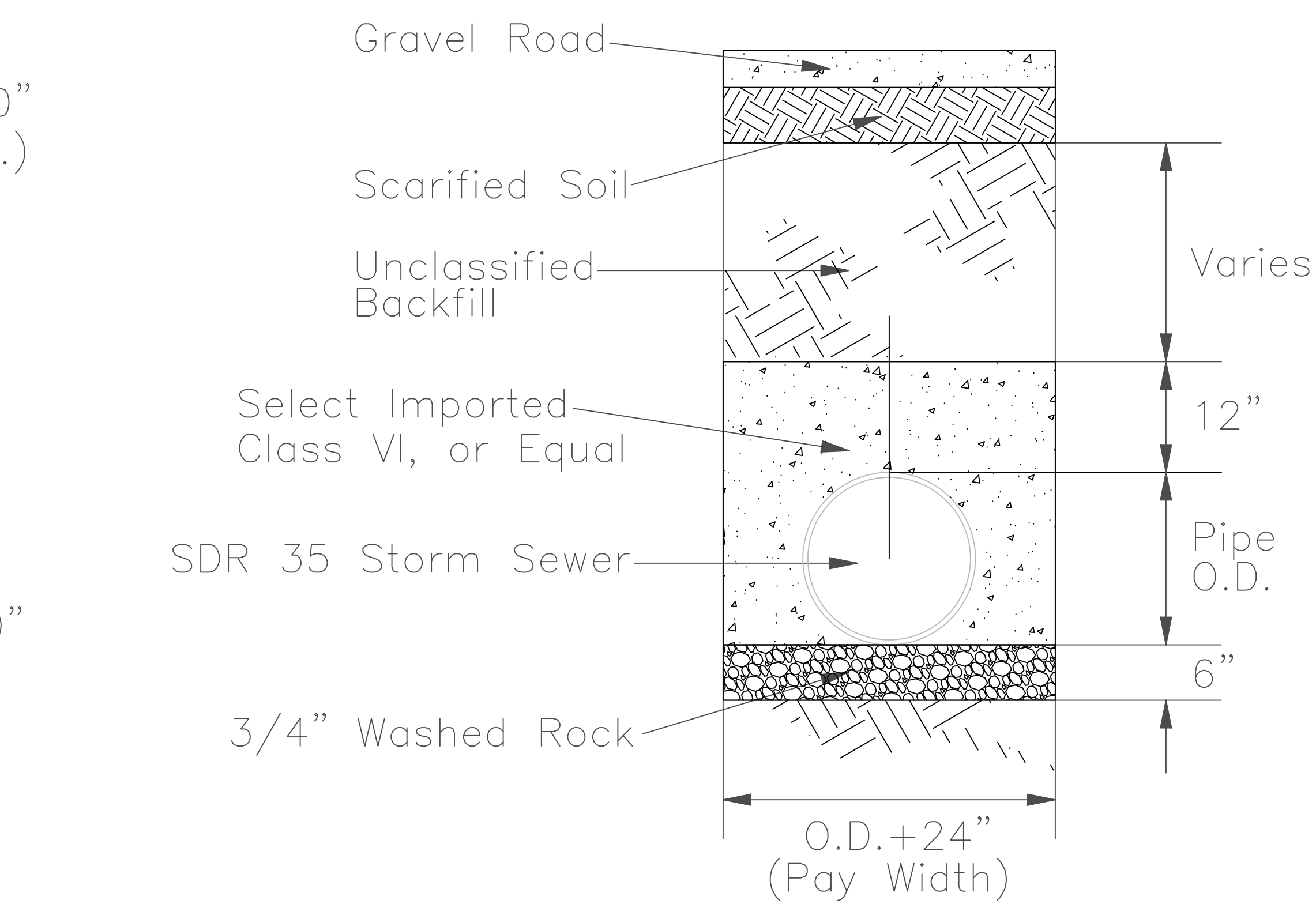


5/28/2024



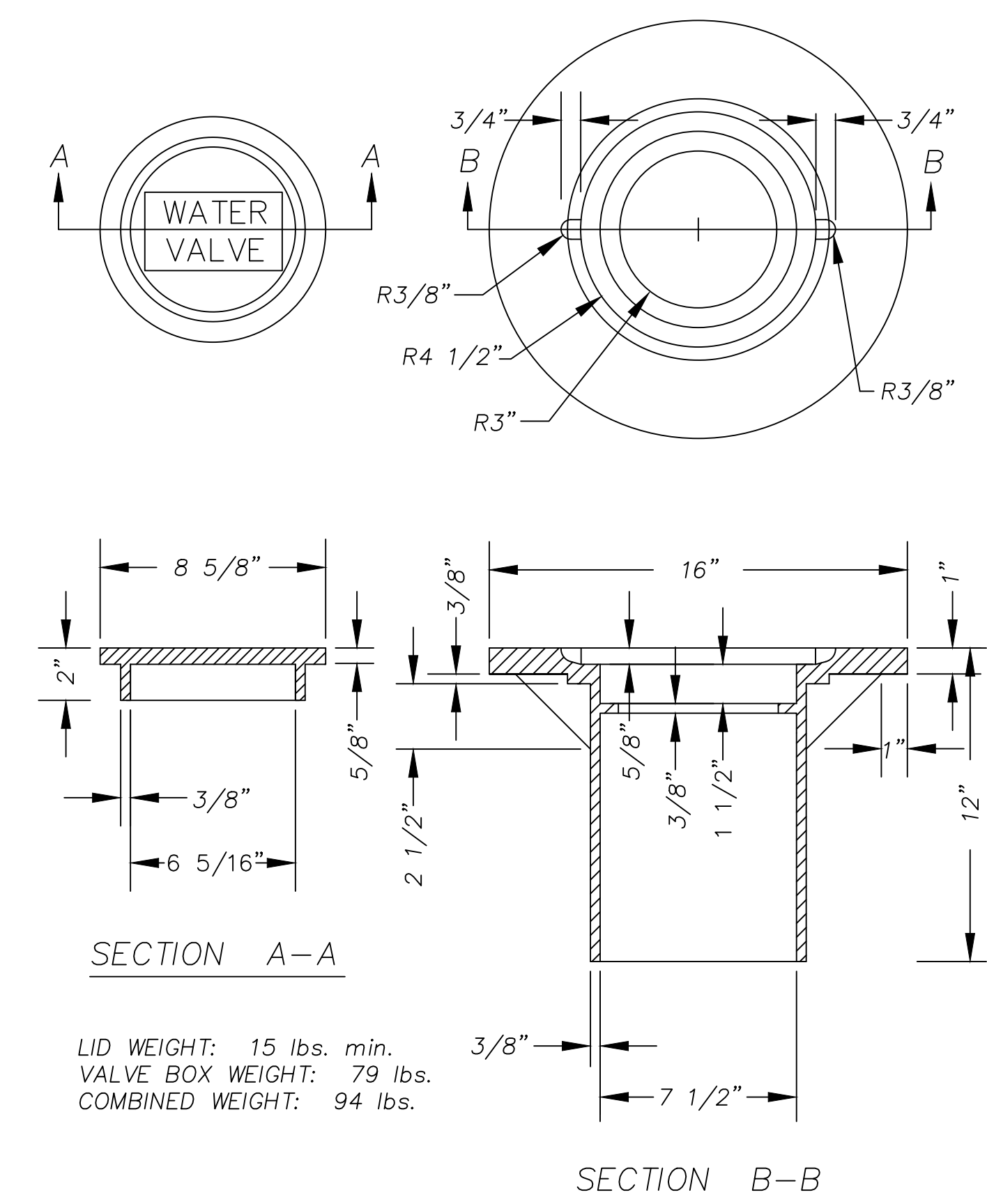
Potable Water Main Trench Detail

Scale: 1"=1'-0"



Storm Sewer Main Trench Detail

Scale: 1"=1'-0"



Valve Box Lid Detail

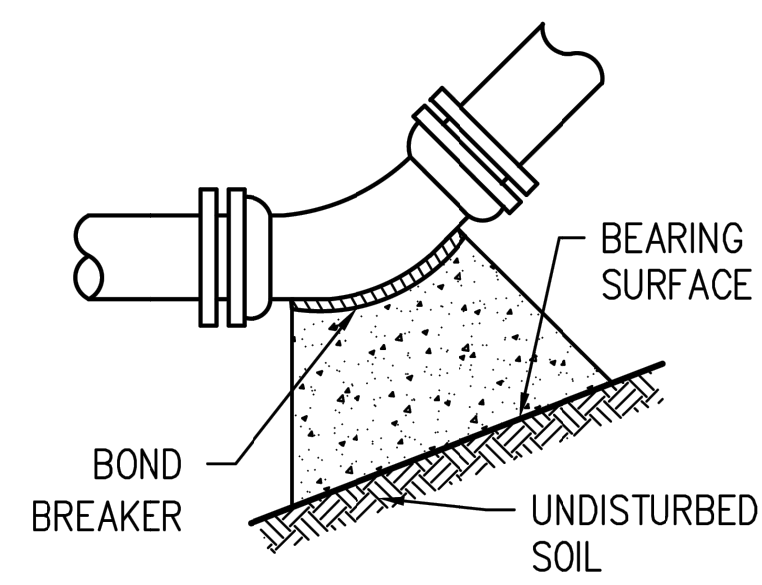
NOT TO SCALE

LID WEIGHT: 15 lbs. min.
VALVE BOX WEIGHT: 79 lbs.
COMBINED WEIGHT: 94 lbs.

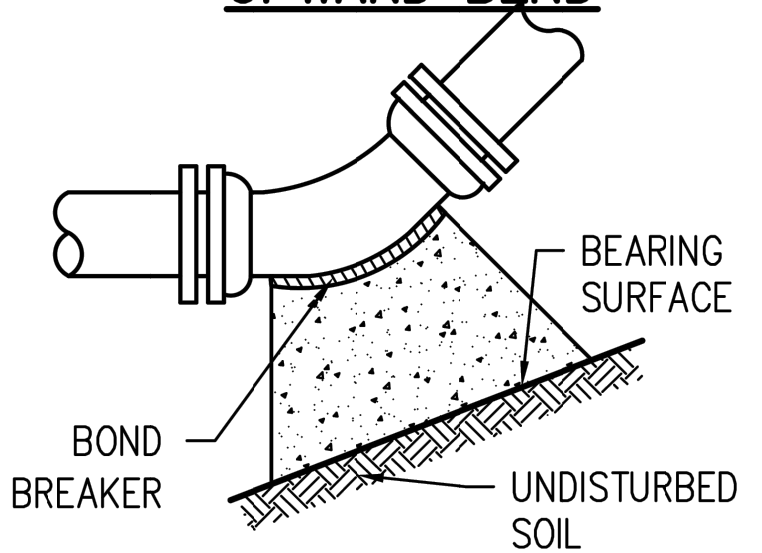
DESIGNED BY	KAY	2/5/24	APP'D DATE
DRAWN BY	KAY/GH	5/28/24	
CHECKED BY	JAJ		
PROJECT NUMBER	23-9538		
Lucy Lane		Details	
Util Xing		NO. REVISION	
Utilities			

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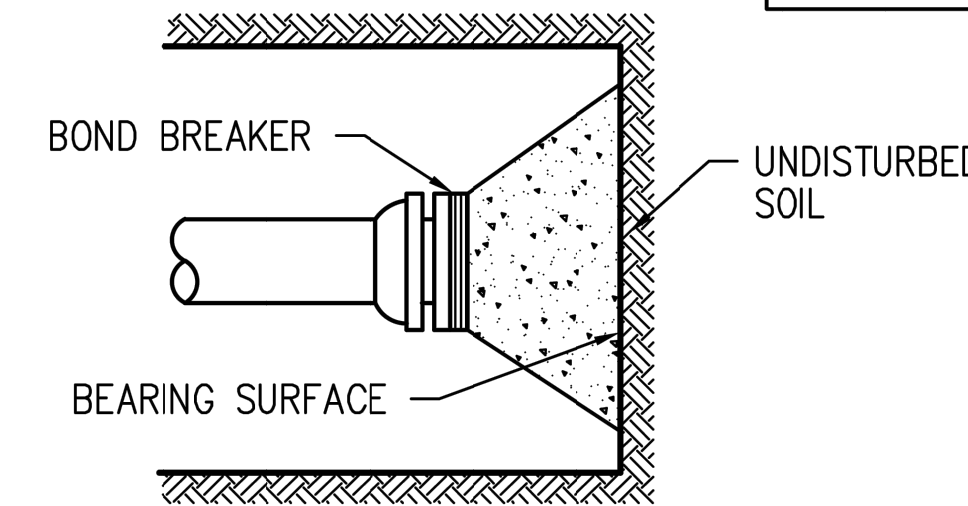
DATE: 5/28/24
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VERT : -
SHEET: D-1
SHEET OF: 4



UPWARD BEND

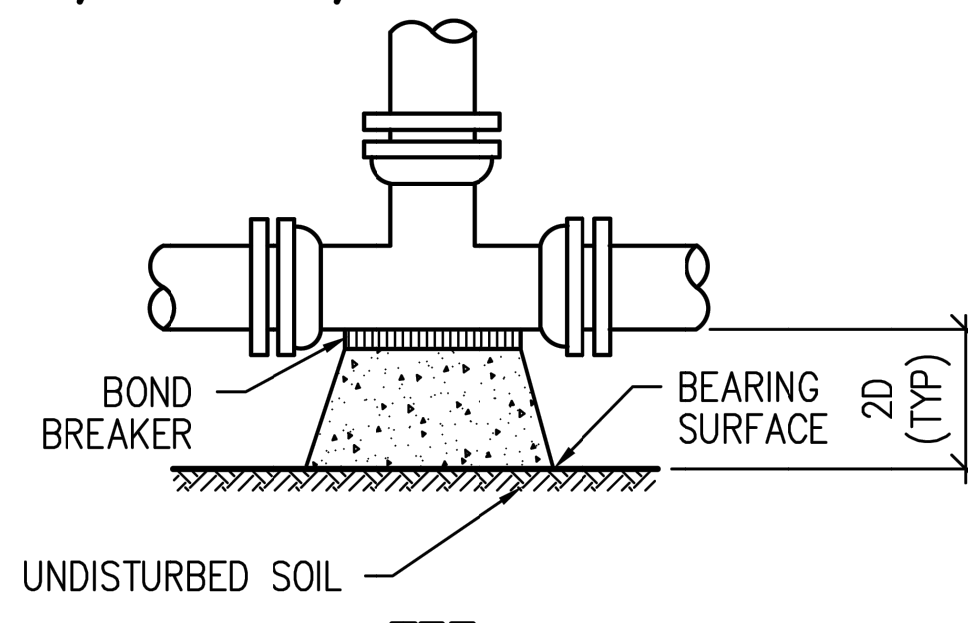


DOWNWARD BEND

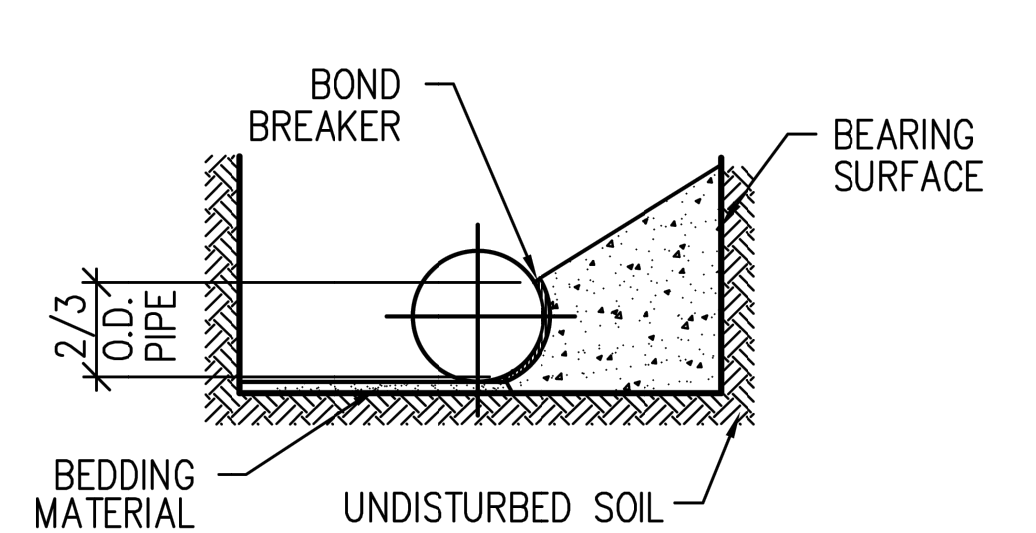


DEAD END

11-1/4', 22-1/2', 45° & 90° BENDS



TEE

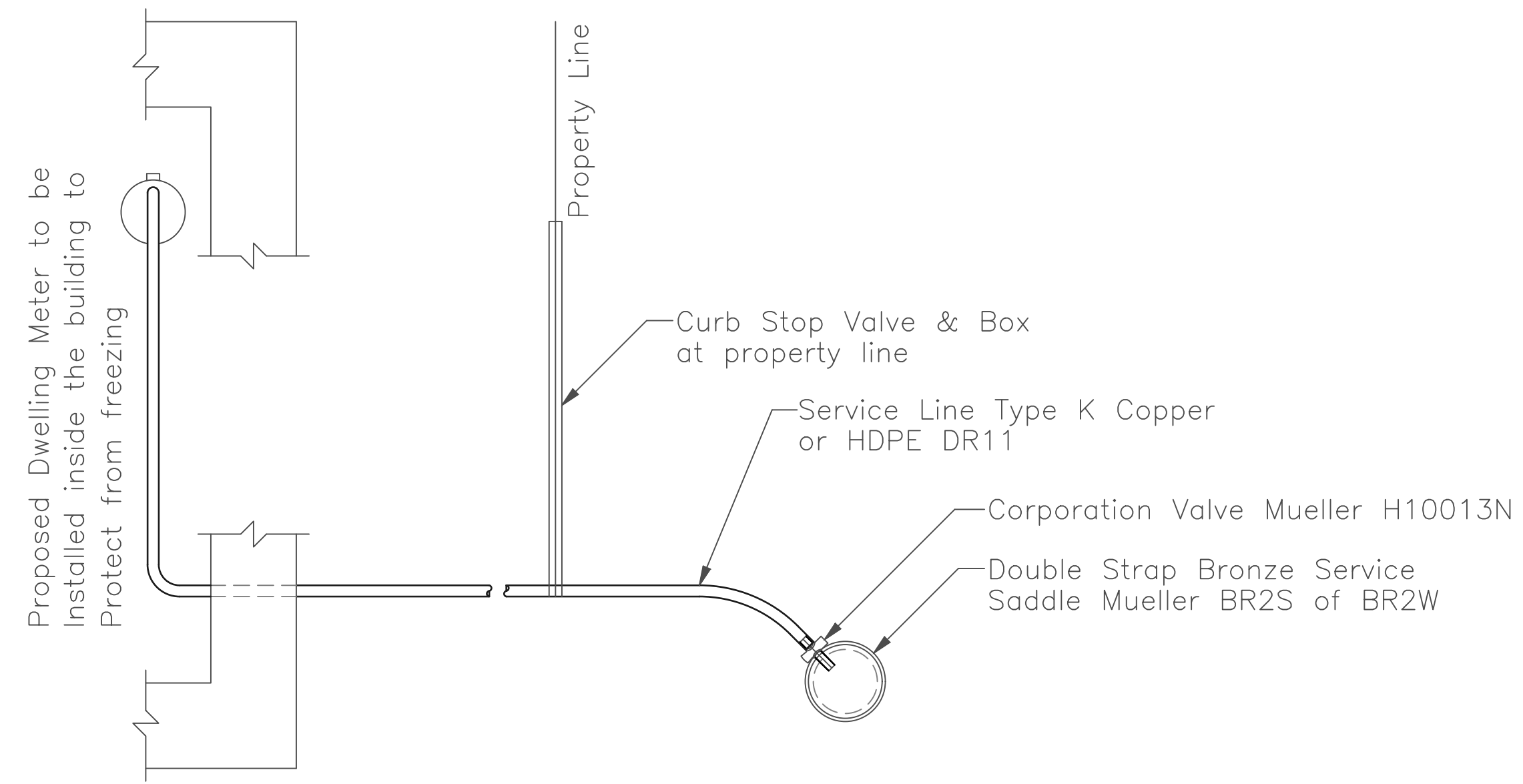


TYPICAL CROSS SECTION

SIZE OF PIPE	TEE OR DEAD END	SURFACE AREA (SQ FT)				CONC VOL (CU YD)
		11-1/4'	22-1/2'	45°	90°	
4"	1.50	1.00	1.00	1.00	2.0	0.34
6"	3.00	1.00	1.25	2.25	4.5	0.71
8"	5.25	1.00	2.00	4.00	8.0	1.22
12"	11.25	2.25	4.50	8.75	17.0	1.83

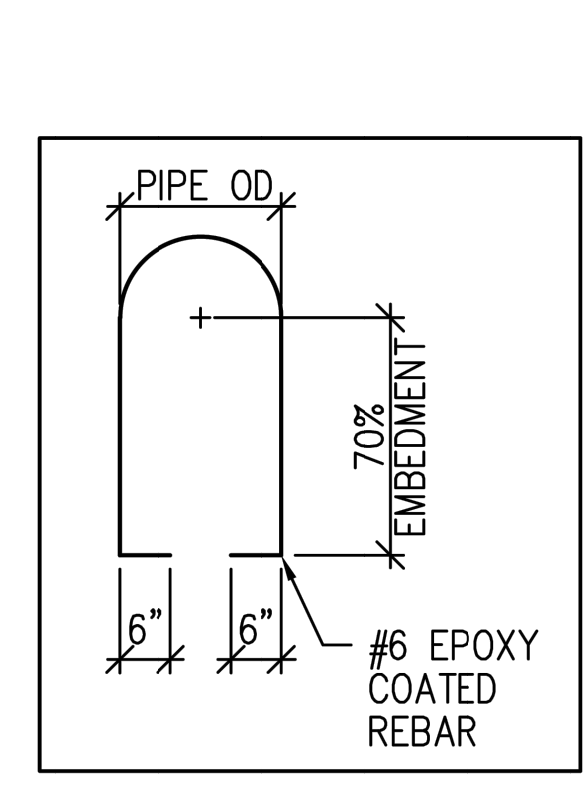
MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)

- NOTES:**
- BEARING SURFACES SHOWN IN CHART ARE MINIMUM SQUARE FEET BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER.
 - 4", 6", 8", & 12" WATER HAMMER = 110 PSI BASED ON 3000psf SOIL BEARING CAPACITY
 - USE TYPE II PORTLAND CEMENT 3000 PSI CONCRETE
 - ALL VALVES, TEES, BENDS AND PLUGS SHALL BE RESTRAINED AND THRUST BLOCKED

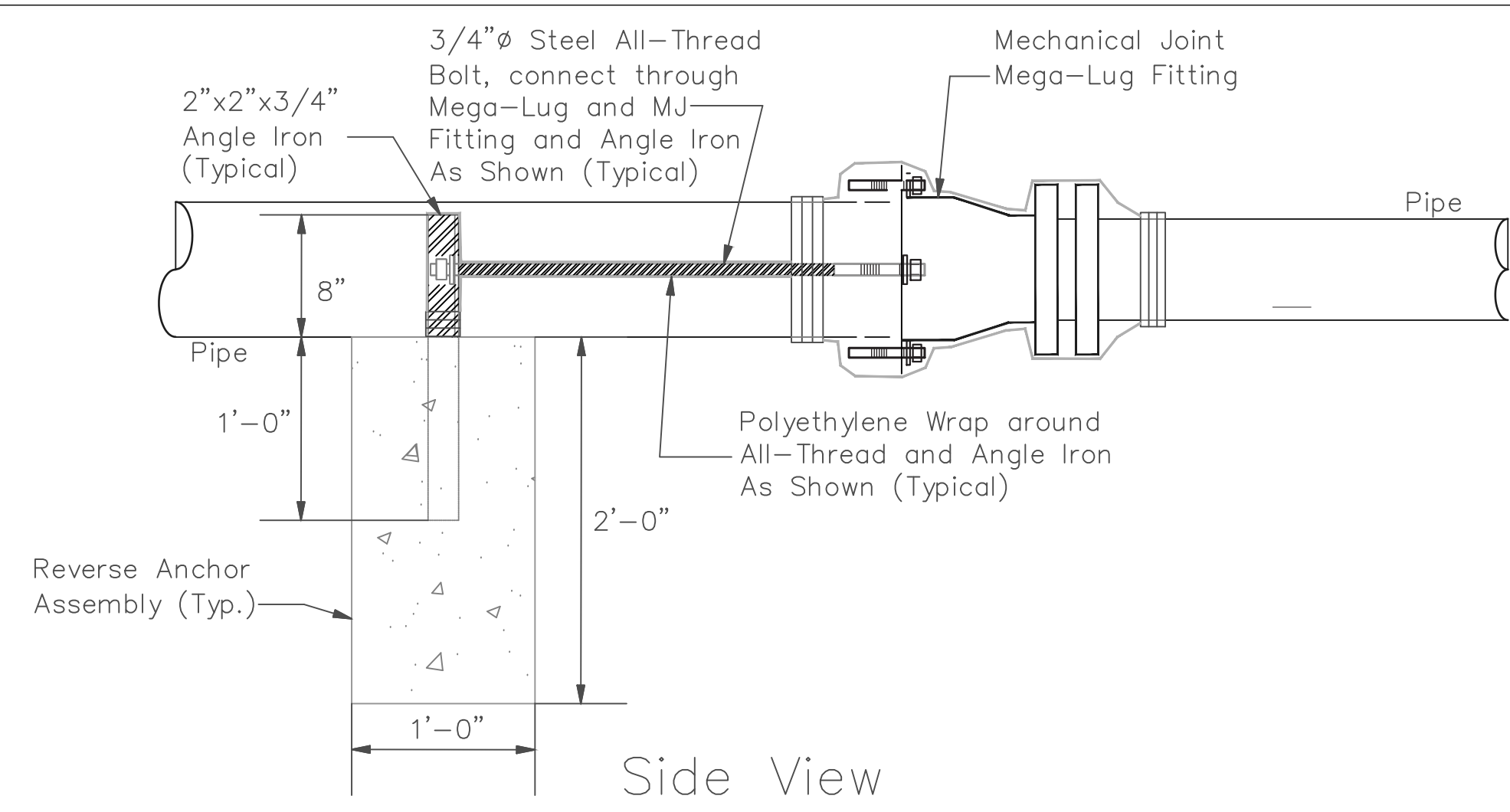


Service Tap/Meter Installation Detail

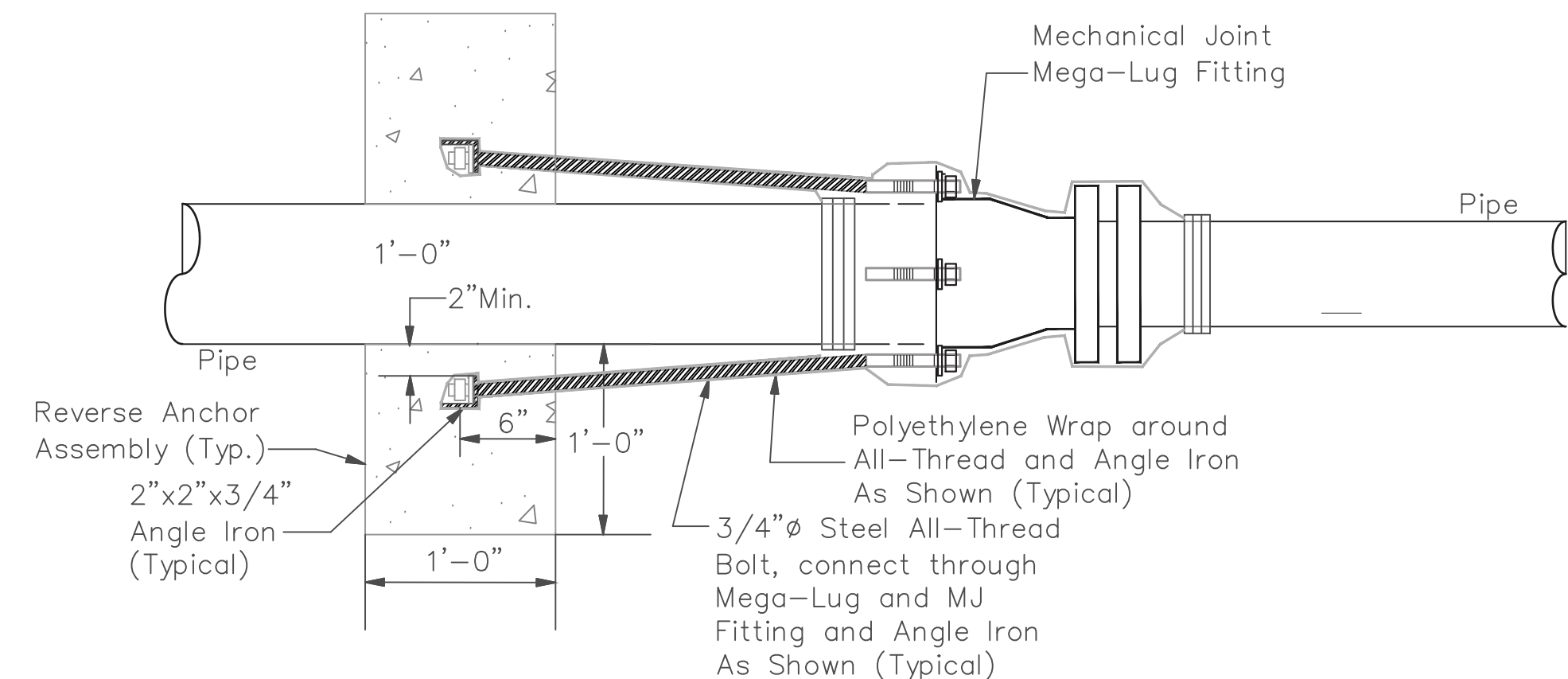
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THRUST BLOCK SHALL NOT INTERFERE W/ MECHANICAL JOINT BOLT OPERATION



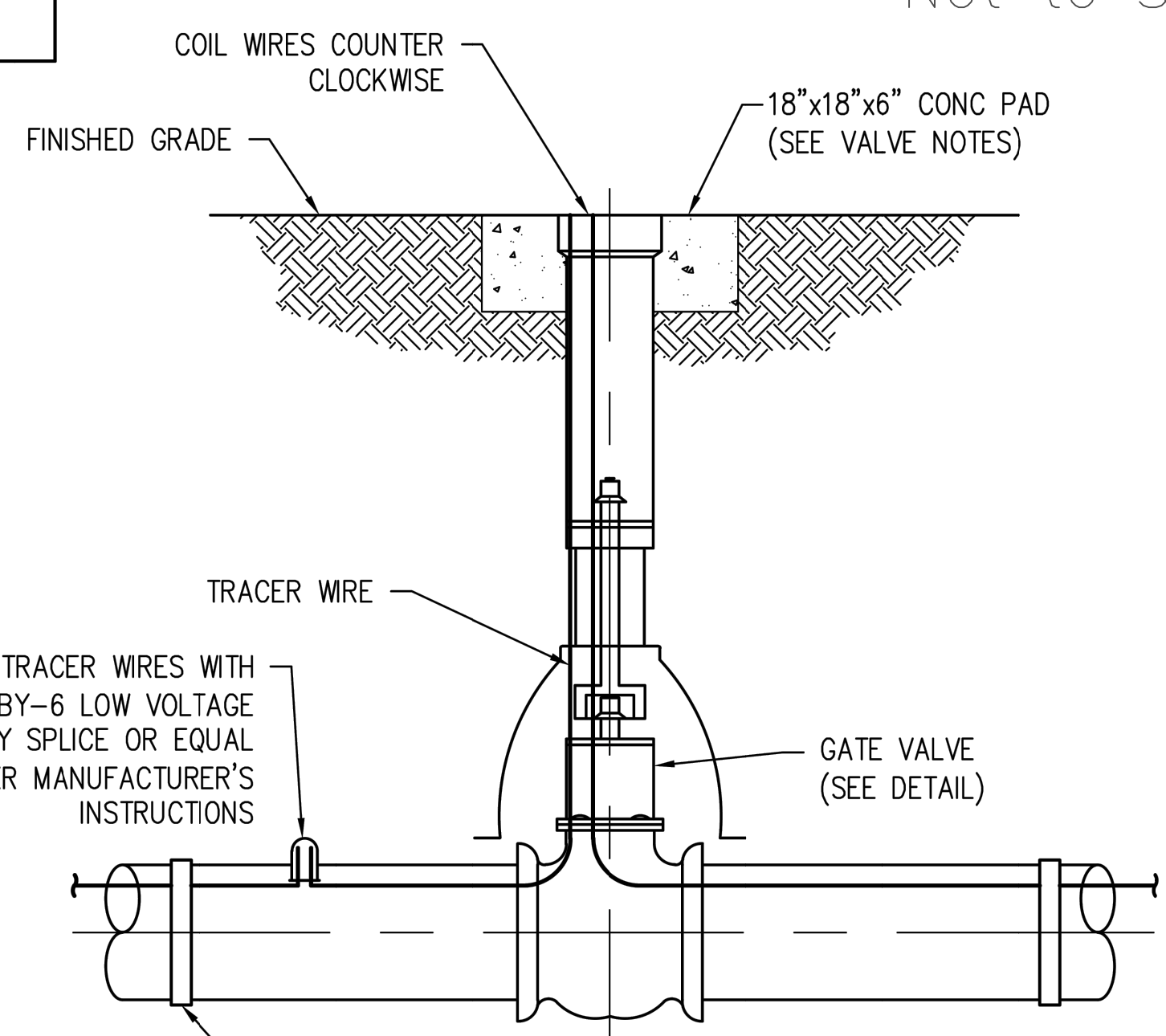
Side View



Plan View

REVERSE ANCHOR ASSEMBLY DETAIL

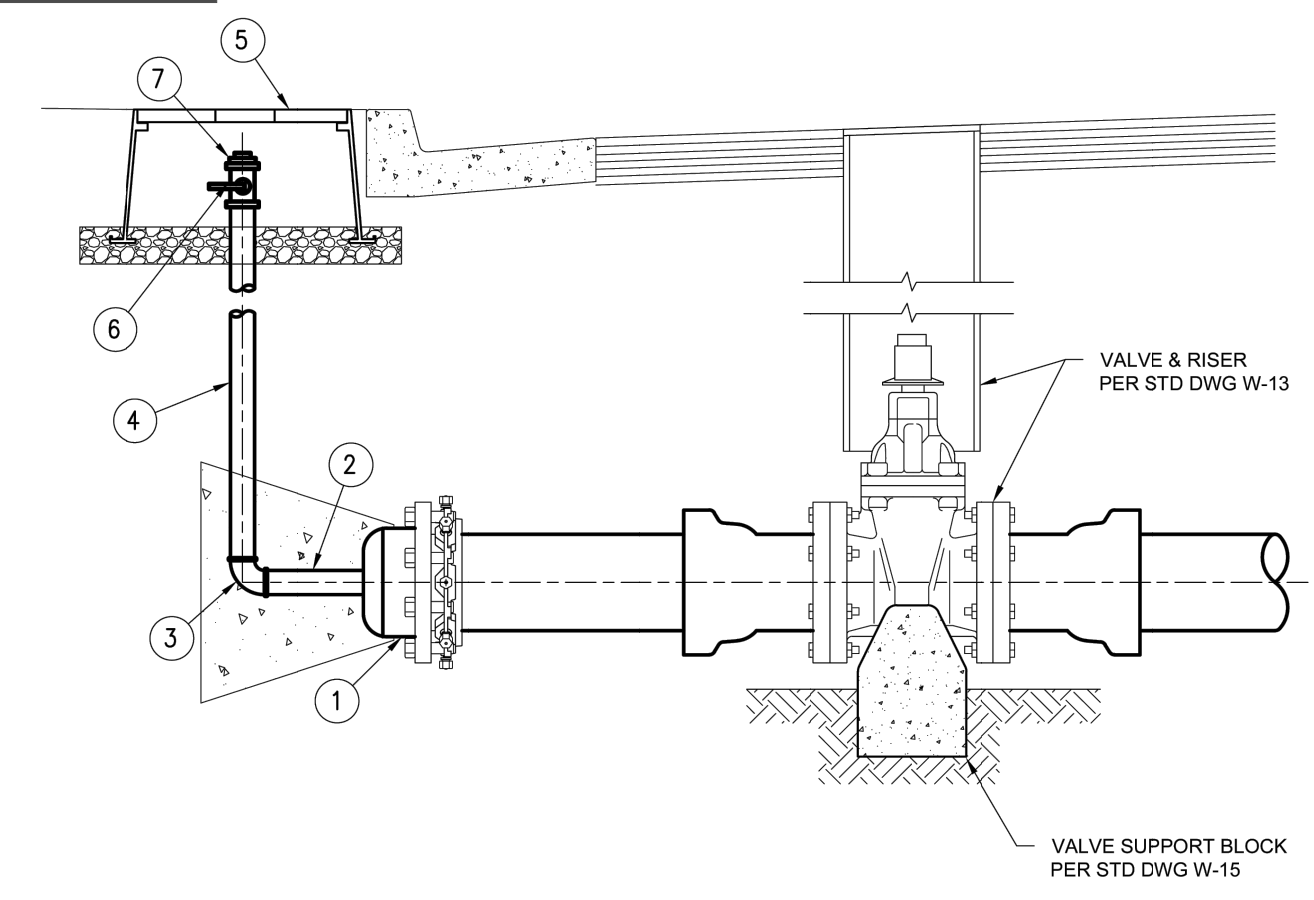
Not to Scale



NOTE:
SPACE TRACER WIRE TEST STATIONS AT 500' MAX SPACING

INSTALLATION AT VALVE

TRACER WIRE INSTALLATION AND TEST STATION DETAIL



- NOTES:**
- METER BOX FOR BALL VALVE TO BE LOCATED ADJACENT TO AND BEHIND CURB, UNLESS OTHERWISE NOTED ON PLANS.
 - IF END OF MAIN IS IN STREET, INSTALL 2" BRASS PIPE LEVEL TO BEHIND CURB. USE ADDITIONAL 2" 90° BRASS ELBOW.
 - WHEN BLOW-OFF IS LOCATED BEHIND A ROLLED CURB & GUTTER, OR WHERE NO CURB EXISTS USE TRAFFIC STYLE BOX AND LID.

ITEM	DESCRIPTION
(1)	MAN x 2" MJ TAPPED END CAP
(2)	2" x 6" BRASS NIPPLE
(3)	2" 90° BRASS ELBOW
(4)	2" BRASS PIPE
(5)	METER BOX PER STANDARD DETAIL W-11
(6)	2" BALL VALVE PER APPROVED MATERIALS LIST
(7)	2" BRASS PLUG

Temporary Blow-Off Assembly

Not to Scale



5/29/2024

NO.	REVISION	DATE
1	BOA	2/5/24
2	Utilities	5/28/24
3	Curb Stop & Box	5/29/24
4		

Lucy Lane
Details

DESIGNED BY	KAY
DRAWN BY	KAY/GH
CHECKED BY	JAJ
PROJECT NUMBER	23-9538

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DATE
5/29/24

SCALE
HORZ : As Shown
VERT : -

SHEET
D-2
OF

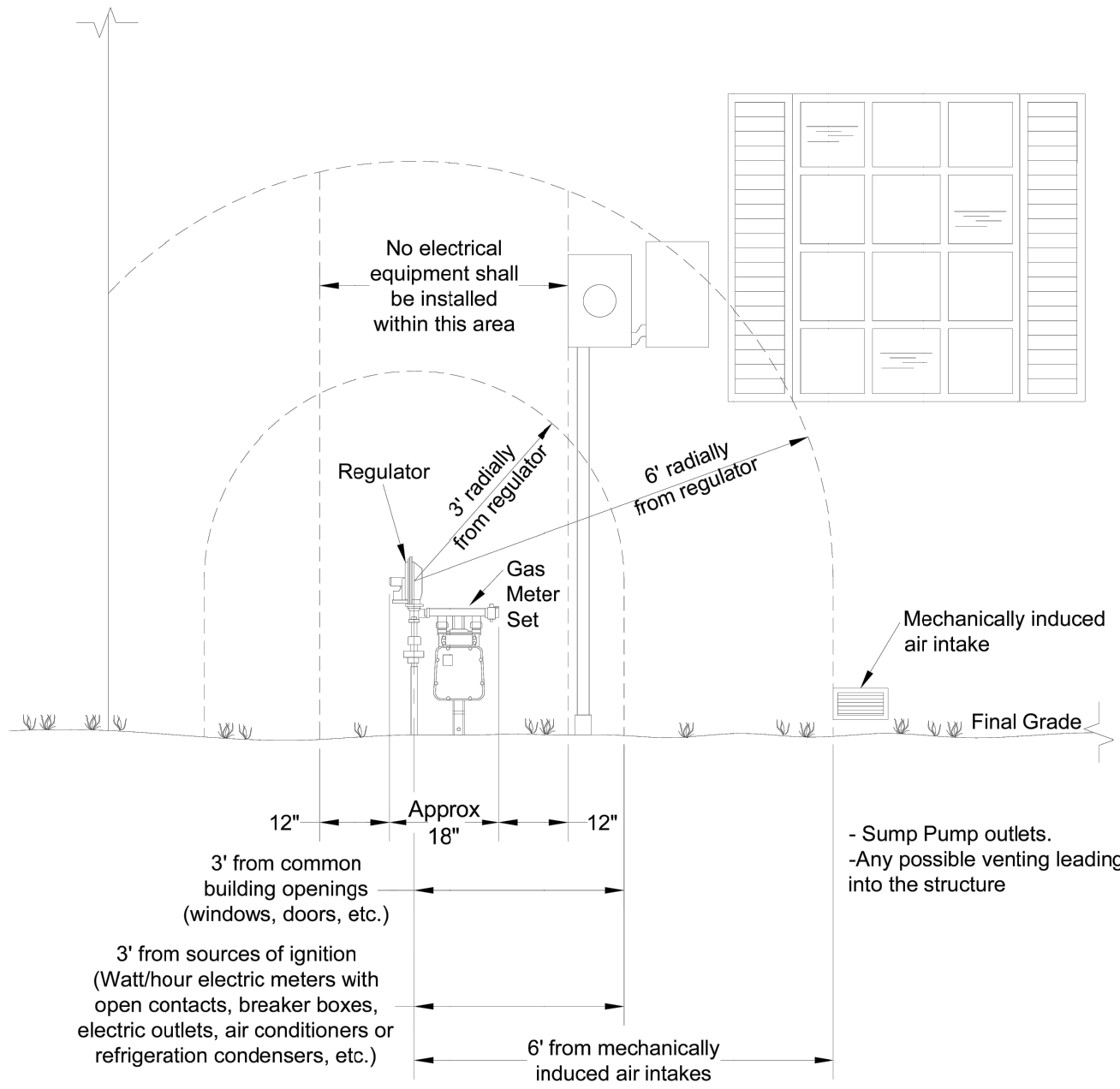
SERVICE INSTALL REQUIREMENTS

Natural Gas and Electric Residential Service

Natural gas meters and regulators should be at least three feet (measured radially) from any source of ignition, such as electric switches and air-conditioning units. You must also maintain the 3-foot distance from doors, windows, vents and air intakes (6 feet from a mechanically induced air intake), outside water spigots and garage doors. In areas where city water is not available, the natural gas service line must be a minimum of 15 feet from a water well. Xcel Energy sets meters about six inches above final grade to allow slight changes in grade and landscaping around the meter without interfering with meter mechanisms. Note: Meters cannot be set under a deck or steps. The electric meter must be installed according to all electrical codes and applicable regulations. For joint trenching, both the natural gas and electric meter are preferred to be on the same side of the house.

DRAWING CR-10

CLEARANCE REQUIREMENTS FROM GAS METER



- NOTES:
- 3' minimum working clearance from non-electrical obstructions is preferred around gas meter set.
 - Disregard clearances when measuring around corners of structure.
 - See Sections 4.2.1(4), 4.3.1(3), and drawings SC-20, SC-20A, and SC-20B for ice and snow shield requirements.
 - Plastic gas services and electric services can be installed in the same joint trench; steel gas services are prohibited from joint trench installation with electric services. Also, gas and electric services shall have a minimum of 12" spacing, whether they are in the same trench or not.

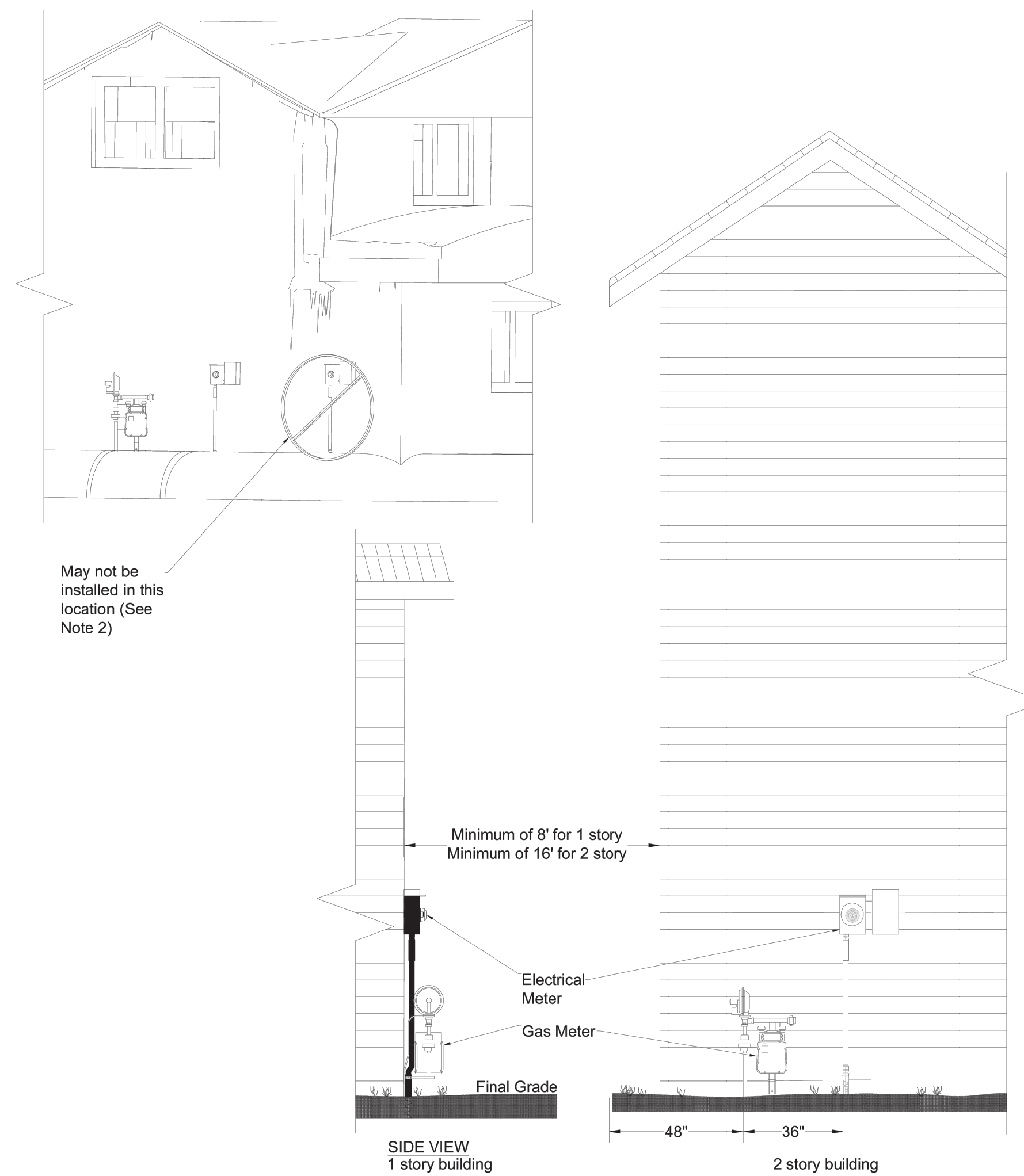
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	Oct-21	Jan-19	DCP		I-7.1	I-7.1

Gas Service Meter Installation Detail 1

Not to Scale

DRAWING SC-20B

HEAVY SNOWFALL AND ICE LOADING METER REQUIREMENTS OF MI AND CO COUNTIES: EAGLE, LAKE, PARK, AND SUMMIT



- NOTES:
- Customers of MI and CO counties: Eagle, Lake, Park, and Summit must comply with this page.
 - There may be no adjacent drip side rooflines within 8' of meters for 1 story buildings and within 16' of 2 story buildings. Meters on the same building under the gable or non-drip side must be a minimum of 4' from the drip line.
 - Meters will not be set until the location is adequate and approved by Xcel Energy.
 - If installation of meters on the gable or non-drip side of the structure is impractical then the meter may be installed in a remote location with prior approval from meter dept needed for obtaining location for a remote set. For examples see SC-50, SC-70, or SC-80.
 - Meters in locations with heavy snowfall, ice loading or in locations above 6,000 feet elevation shall be located on the gable or non-drip side of a building or structure.

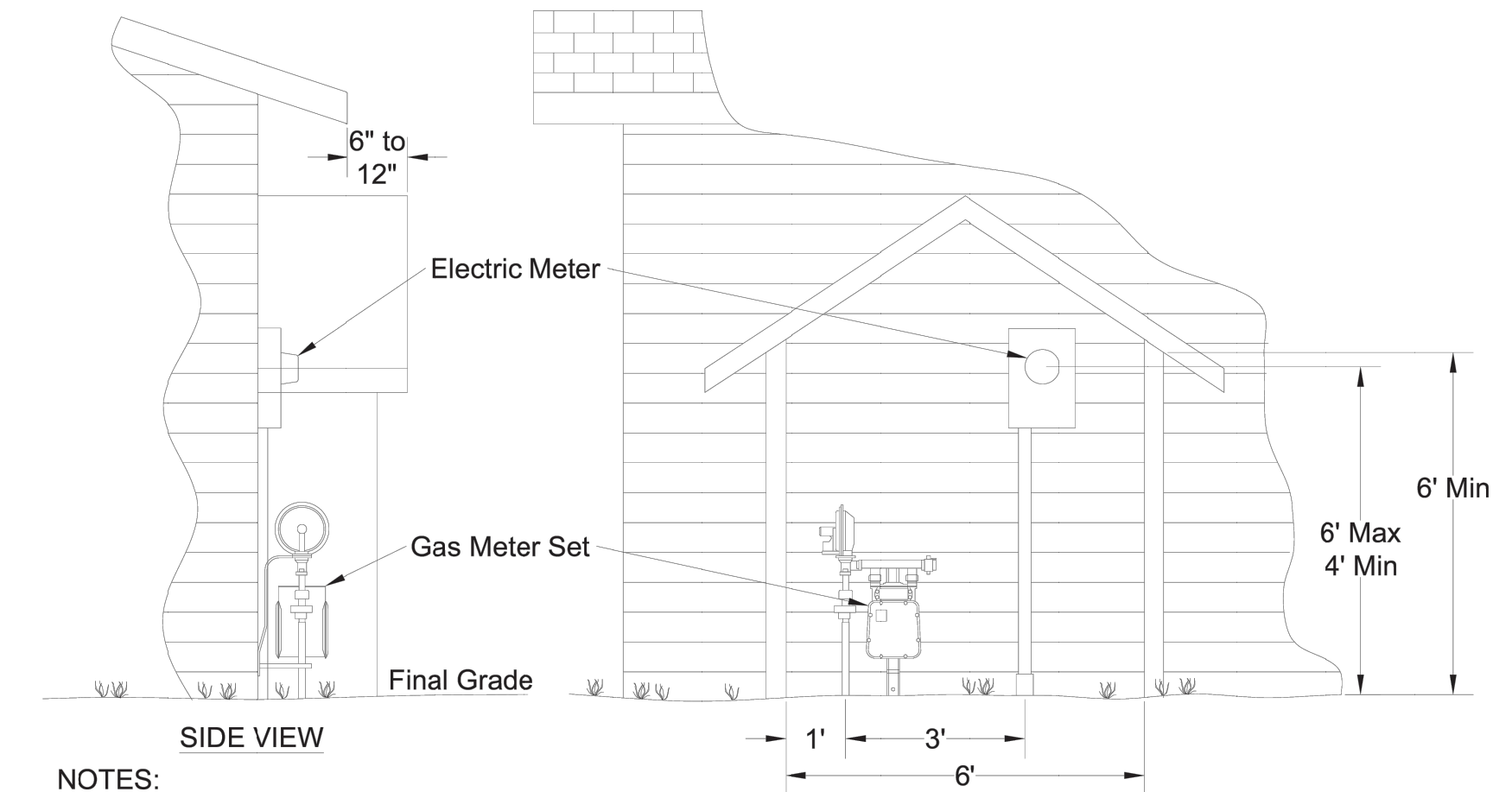
	Issued	Replaces	Drawn by	Approved	File	STANDARD FOR ELECTRIC INSTALLATION AND USE
	Oct-21	NEW	DCP		I-1.5B	I-1.5B

Gas Service Meter Installation Detail 3

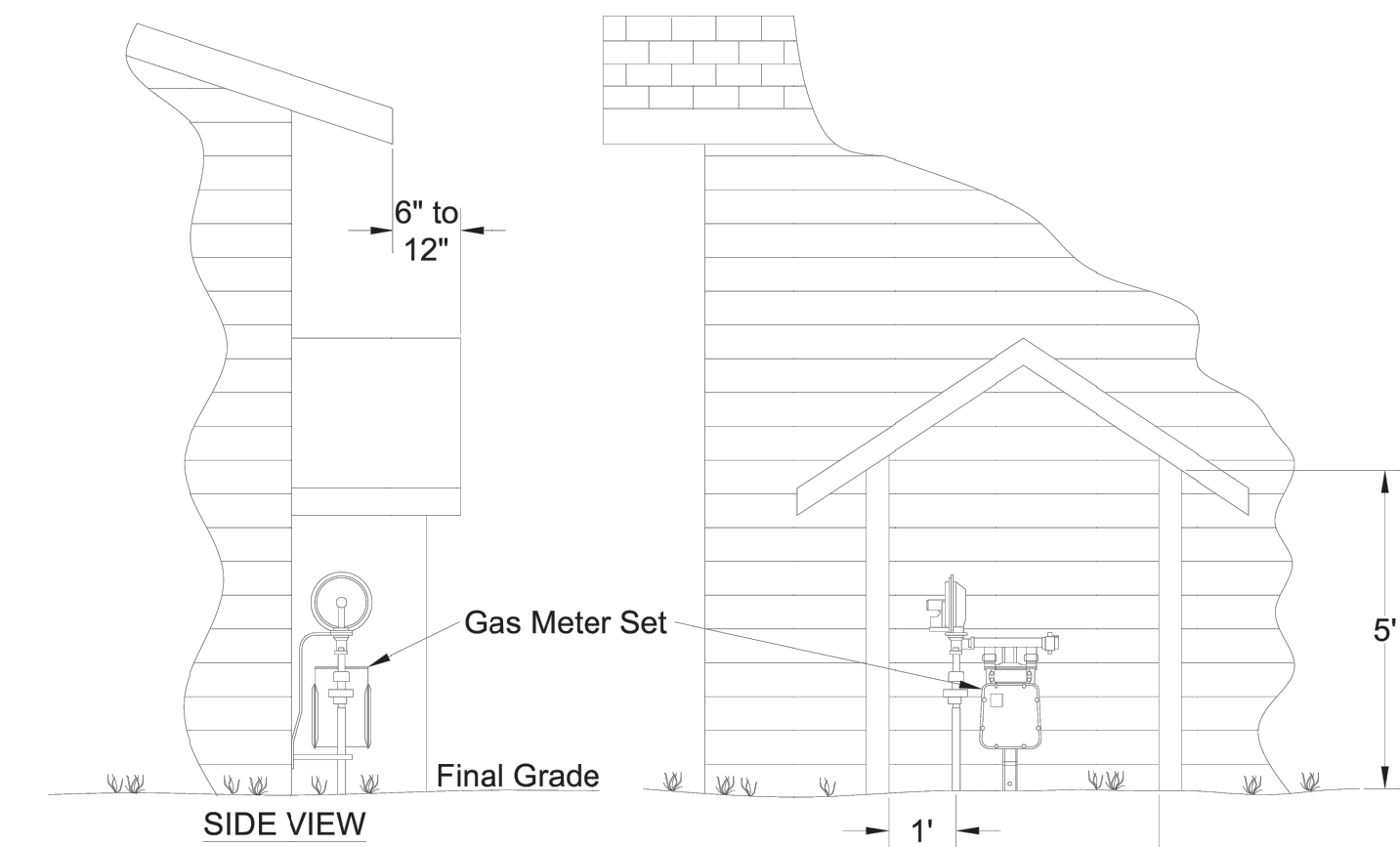
Not to Scale

DRAWING SC-20A

METER ICE AND SNOW SHIELD
(Hot Sequence Installation Shown)



- NOTES:
- Required meter protection will consist of walls and gable roof which are structurally part of the building.
 - Walls will be 6' high and 6' apart.
 - Gable roof will extend a minimum of 6" beyond drip line (preferably 12").
 - Meters will not be set until meter protection is in place and approved by Xcel Energy.
 - Not allowed in the following MI and CO counties: Eagle, Lake, Park, and Summit.



- NOTES:
- Required meter protection will consist of walls and gable roof which are structurally part of the building.
 - Walls will be 5' high and 4' apart.
 - Gable roof will extend a minimum of 6" beyond drip line (preferably 12").
 - Meters will not be set until meter protection is in place and approved by Xcel Energy.
 - Not allowed in the following MI and CO counties: Eagle, Lake, Park, and Summit.

	Issued	Replaces	Drawn by	Approved	File	STANDARD FOR ELECTRIC INSTALLATION AND USE
	Oct-21	Jan-17	DCP		I-1.5A	I-1.5A

Gas Service Meter Installation Detail 2

Not to Scale

					APPV'D	DATE
1	2	3	4	NO.	REVISION	

Lucy Lane

Details

DESIGNED BY	KAY
DRAWN BY	KAY/GH
CHECKED BY	JAJ
PROJECT NUMBER	23-9538

800 W. 8th Street
Pueblo, Colorado 81003
(719) 582-5588
WWW.JESIK.US

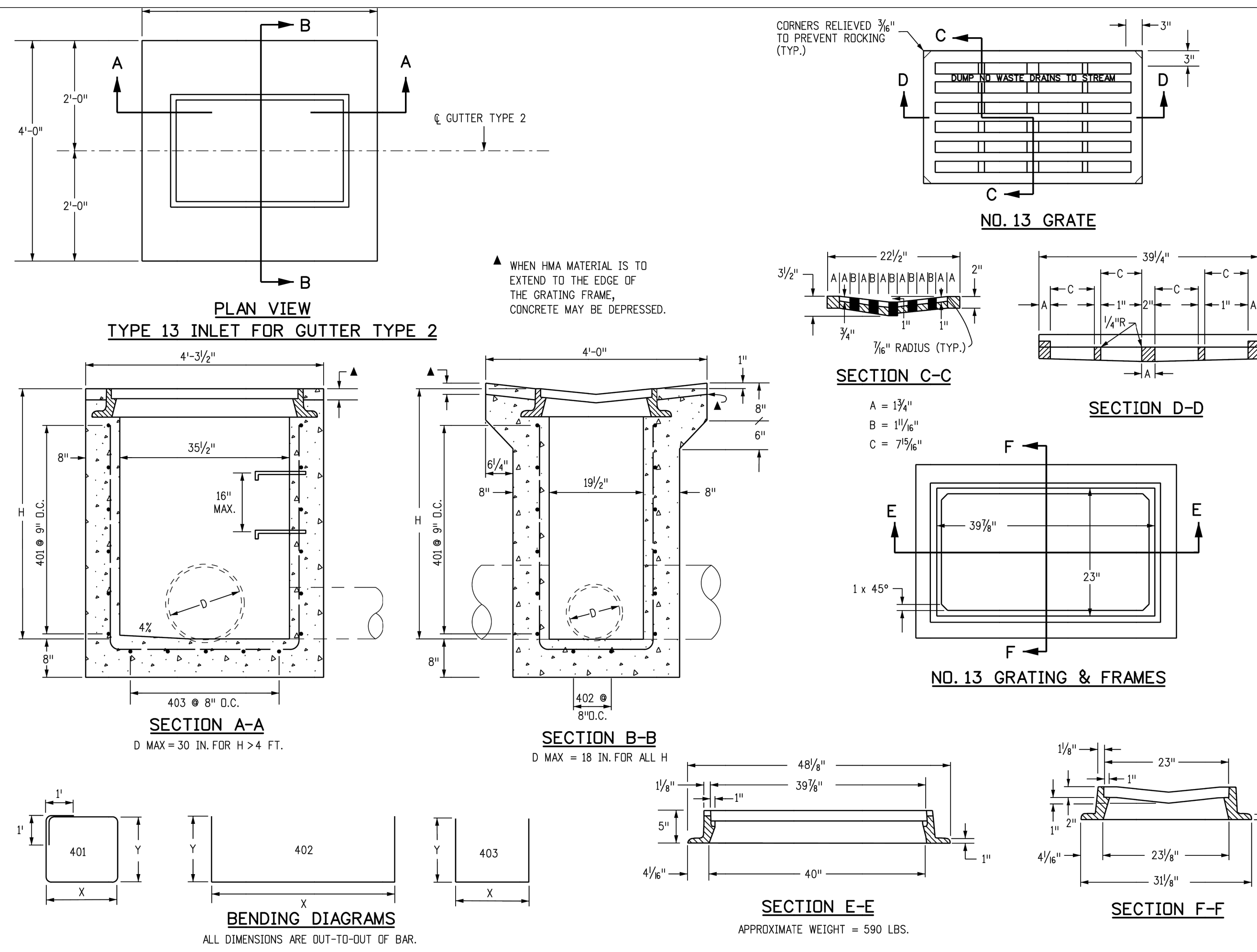
DATE
5/28/24

SCALE
HORZ : As Shown
VERT : -

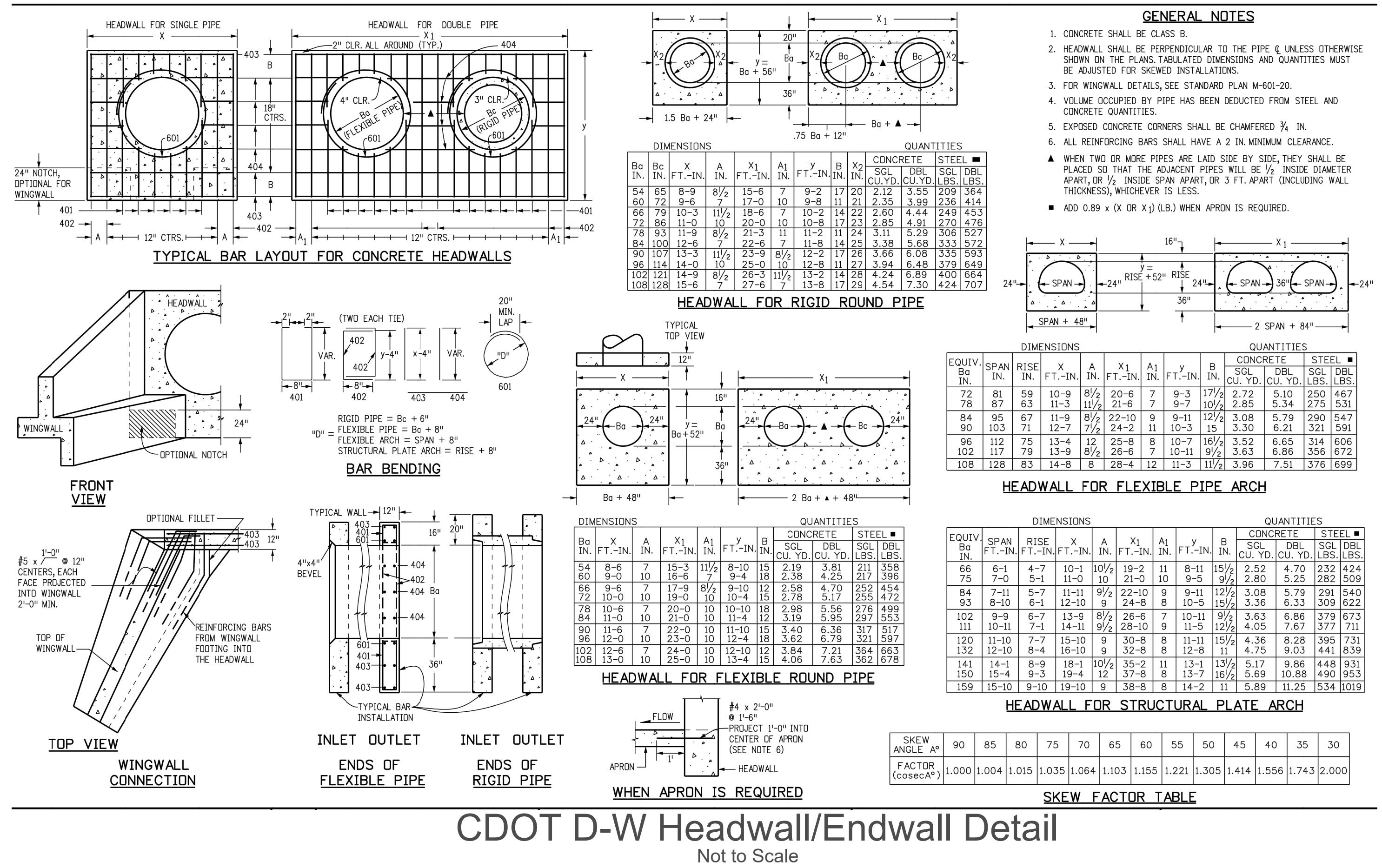
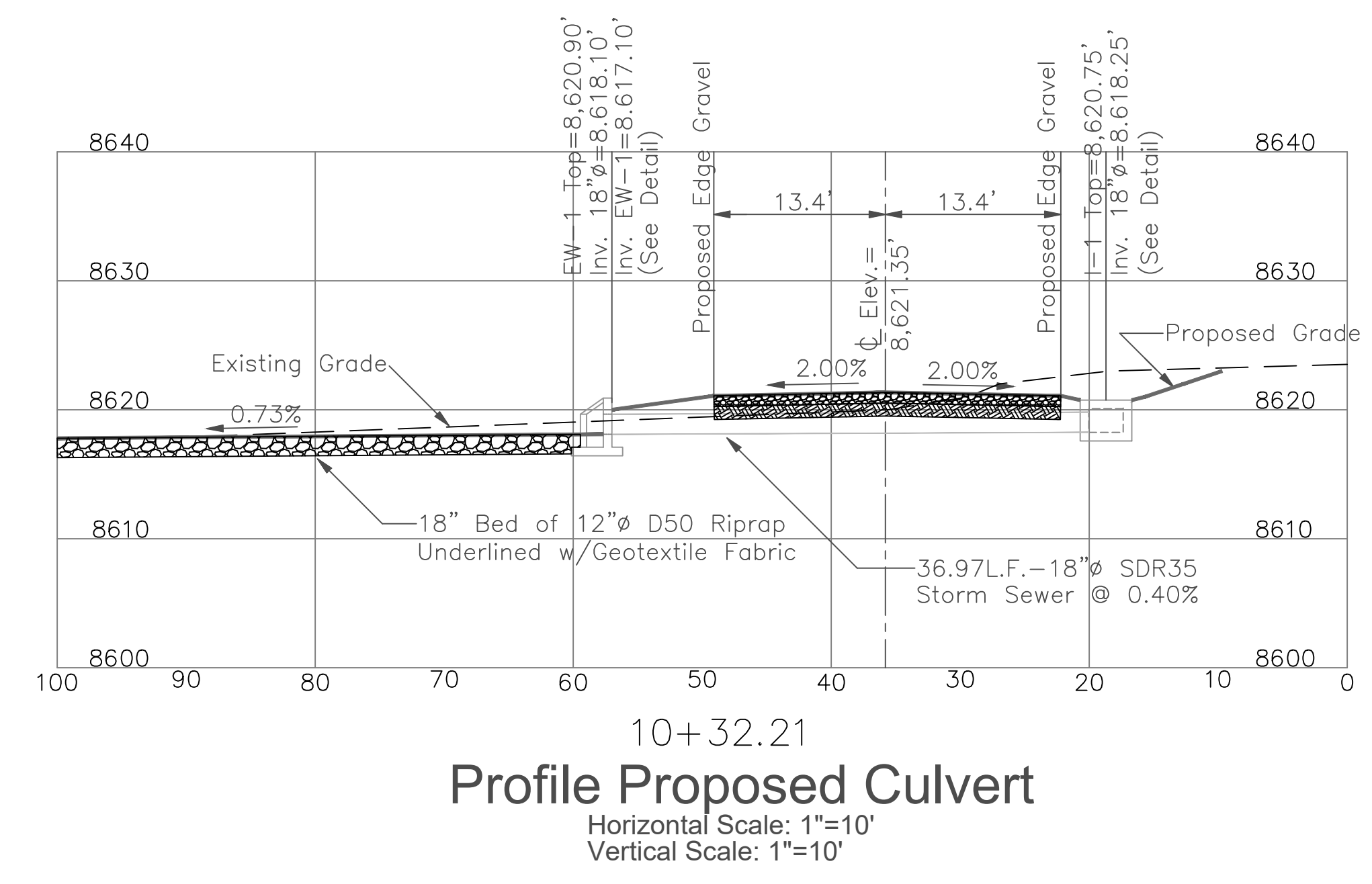
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D-3
SHEET OF



5/28/2024



CDOT Type 13 Inlet Detail
Not to Scale



CDOT D-W Headwall/Endwall Detail
Not to Scale

DESIGNED BY	KAY	DATE	5/29/24
DRAWN BY	KAY/GH	UTILITIES	1
CHECKED BY	JAJ		2
PROJECT NUMBER	23-9538		3
			4
		NO. REVISION	APPV'D DATE



5/29/2024

SCALE
HORZ : As Shown
VERT : -
SHEET D-4
OF

UTILITIES

- A. The lines shown on the drawings indicating existing lines and new lines, are not to be construed as the exact location of said lines, or in fact all lines that may exist. The Contractor is responsible for verifying the final location and depth of any lines affecting the project work.
B. The Contractor shall provide, at his own expense, all necessary utilities required for his operations under the contract.
C. Water lines, gas lines, wire lines, service connections, meter and valve boxes, light standards, cableways, and all other utility facilities within the limits of the proposed construction are to be relocated or adjusted at the Owner's expense unless otherwise provided in the Contract.
D. If utility facilities or appurtenances are found that are neither identified in the Contract, nor revealed by site investigation, the Owner will determine whether adjustment or relocation of the utility is necessary.
E. Where the Contractor's operations are adjacent to properties of telephone, power, or other utility companies, to which damage might result in considerable expense, loss, or inconvenience, work shall not commence until arrangements for the protection of the utilities have been made.
F. If water or utility services are interrupted, the Contractor shall promptly notify the Owner and shall cooperate in the restoration of service.
G. The Contractor shall comply with Article 1.5 of Title 9, CRS ("Excavation Requirements") when excavating or grading is planned in the area of underground utility facilities.

CONSTRUCTION

- A. The lines shown on the drawings are proposed improvements, finished grades for structures, profile and details of the work. Any modification must be approved by the Project Engineer (Either Kenneth Young (719) 568-2074, Email: Ken@jesik.us, or Andy Jesik (719) 582-5588, Email: andy@jesik.us).
B. All items which are to be demolished, shall become the property of the Contractor, and shall be immediately removed.
C. All disturbed areas shall be permanently stabilized with a native seed mixture. The Contractor shall submit same to the Project Engineer for approval.
D. The Contractor shall implement all erosion control features as soon as the upstream area is disturbed.
E. The Contractor shall submit to the Owner a comprehensive Construction Schedule, prior to the commencement of any construction activity.
F. The Contractor shall notify the Owner immediately, in writing, of any potential errors, omissions or conflicting information contained on the Plans or Contract Documents.
G. All Change Orders initiated by the Contractor, shall be submitted to the Owner, in writing, including supporting documentation.
H. The sanitary sewer service lines shall tie into the proposed sanitary sewer manholes, as shown on the plans.
I. All other utility services shall be extended to the Right-of-Way line and terminated as shown on the plans.
J. Pressure and Leak Testing of Proposed Water Main:
1. The Contractor shall fill and flush the pipeline prior to pressure and leakage testing and disinfection of the water system.
2. The lines shall be filled slowly to prevent entrapping air.
3. The Contractor will be required to perform a pressure and leakage test of water mains, valves, and fittings in the constructed system.
4. The Contractor shall utilize fire hydrant where available on the pipeline to conduct the tests.
5. The pipeline segment to be tested (NOT TO EXCEED 1,000 FEET IN LENGTH) shall be isolated and approved by the Owner.
K. Disinfection of the Proposed Water Main:
1. All mains, valves, hydrants, hydrant connections and other appurtenances installed under this Contract shall, upon completion of all water supply related construction be disinfected in accordance with AWWA Standard C651 and any additional requirements of the Owner.
2. The Contractor, under the supervision of the Owner, shall take water samples and have the samples tested by an approved laboratory.
3. The Owner will furnish water to the Contractor at no cost for flushing, testing, and disinfecting the pipeline, if hydrants or other connections are convenient to the work.
4. Mains shall be drained the hydrants, blowoffs and air vents.
5. Hydrants or blowoffs shall not be connected to any sewer, submerged in any stream, or be installed in any other manner that will permit back siphonage into the distribution system.

Table with 4 columns: NO., REVISION, APP'D, DATE. Row 1 contains values 1, 2, 3, 4.



LUCY LANE
PLAN NOTES

Table with 4 columns: DESIGNED BY (KAY), DRAWN BY (KAY), CHECKED BY (AJ), PROJECT NUMBER (23-9538).

800 W. 8th Street
Pueblo, Colorado 81003
(719) 582-5588
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DATE
5/29/2024

SCALE
HORZ :
VERT :

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N-1
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