

VILLAGE OF CALDWELL
NOBLE COUNTY, OHIO

AREA E, AREA G, & INTERCEPTOR IMPROVEMENTS

ADDENDUM #4

MARCH 2, 2023

THRASHER PROJECT #101-020-10020

TO WHOM IT MAY CONCERN:

The following are clarifications and responses to questions posed by contractors for the above-referenced project.

A. **GENERAL**

1. **THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT. REPLACE PAGE BID 5. REVISION MADE IN RED TEXT ON BID ITEM #31. REFER TO QUESTION #5 BELOW.**

B. **QUESTIONS AND RESPONSES**

QUESTION 1

Can we get a clarification on the castings required for this project?

- On the sanitary manholes, they show the ODOT MH No. 3 as the spec on the details, which is the 1450 frame and cover, but it also lists the 00191501 as the spec for watertight manholes. They don't show any watertight manholes on the profiles or on the structure schedule.
- On the storm side, there is a note on the profiles that says "All storm manholes to receive flat top or curb inlets with catch basin grate. See detail sheet" but the sheets referenced are the structure schedule which does not have any details or descriptions for the frames and covers.

RESPONSE

Please see the attached 2 tables. This information will address your question regarding the casting types per structure.

QUESTION 2

Has the Engineer's Estimate been updated from \$4,513,000.00 on page EST-1?

RESPONSE

REPLACE page EST-1 with the updated Engineer's Estimate of \$5,622,600.00.

QUESTION 3

Are there any sanitary water line details?

RESPONSE

ADD Plan Sheet 73 to your plan set.

QUESTION 4

There is a conflict between the plan notes and spec book on the type of storm pipe. Plan Note on Sheet 2 calls for corrugated polyethylene smooth lined pipe (ODOT 707.33). Section 334100 of spec book is calling for polypropylene, ADS HP or equal. Can you please verify what pipe is required for storm?

RESPONSE

Please follow ODOT Specifications (ODOT 707.33).

QUESTION 5

Item 31 is shown as CY on the bid proposal, should this be SY?

RESPONSE

Yes, this should be SY. We have modified the bid form to reflect this. See instructions above in Section A - General.

If you have any questions or comments, please feel free to contact me at your earliest convenience at shamit@thethrashergroup.com. As a reminder, bids will be received until 5:00 p.m. on Monday, March 6, 2023, at the Village of Caldwell's Administrator's Office located at 215 West Street, Caldwell, OH 43724. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.



Project Manager

ODOT							
Item #	ODOT #		DESCRIPTION	QTY.	UNIT	UNIT COST	COST
27	407		TACK COAT	3,353	GAL		
28	441		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22	1,552	CY		
29	441		ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	1,552	CY		
30	452		6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	10	SY		
31	452		9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	60	SY		
32	638		6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18	405	FT		
33	638		12" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18	455	FT		
34	638		6" GATE VALVE AND VALVE BOX	1	EA		
35	638		12" GATE VALVE AND VALVE BOX	2	EA		
36	611		6" CONDUIT, TYPE B	425	FT		
37	611		8" CONDUIT, TYPE B, 707.45	4,692	FT		
38	611		8" x 6" WYE, TYPE B, 707.45	20	EA		
39	611		MANHOLE, NO. 3	17	EA		
40	611		MANHOLE, MISC.: CORE EXISTING MANHOLE	2	EA		
41	611		8" CONDUIT, LINING	1,600	FT		
42	611		15" CONDUIT, LINING	615	FT		
43	611		18" CONDUIT, LINING	1,522	FT		

SANITARY:												
Name	Description	Style	Inner Diameter	Inner Length	Inner Width	Reference Alignment	Station	Offset	Insertion Northing	Insertion Easting	Insertion Rim Elevation	Connected Pipes
02	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST2	0+00.00'	0.000'	638370.9770'	2244392.9000'	753.171'	5
004	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	SPRUCE ST	SPRUCE ST	SPRUCE ST	638397.8240'	2244414.7200'	753.556'	1
011	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	550+44.27'	-9.998'	638538.0650'	2245830.1780'	719.841'	3
012	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	548+82.51'	-10.000'	638376.1320'	2245826.6270'	723.779'	3
026	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	545+48.84'	-37.761'	638048.7590'	2245911.5360'	721.225'	2
027	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	545+40.67'	-9.604'	638050.4010'	2245940.8080'	719.958'	5
028	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	547+12.32'	-9.438'	638212.3890'	2245883.9780'	721.674'	4
45	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SOUTH	463+10.04'	-42.938'	636470.9440'	2245007.9890'	717.198'	1
052	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	542+11.43'	-10.000'	637727.8520'	2245998.3920'	721.257'	5
57	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SW	481+12.78'	-10.790'	637494.9890'	2244683.2050'	737.743'	0
58	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SOUTH	INTERCEPTOR SOUTH	INTERCEPTOR SOUTH	637039.9800'	2244774.4810'	721.816'	0
064	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	543+53.63'	-1577.293'	637592.0310'	2244430.5340'	743.215'	2
066	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SW	481+34.12'	0.000'	637481.3470'	2244702.8440'	737.455'	3
073	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	542+80.09'	-1201.305'	637585.7970'	2244813.5960'	740.253'	1
078	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SW	486+83.99'	0.000'	636959.4750'	2244785.8850'	721.236'	2
086	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST INTERCEPTOR	448+67.44'	0.021'	636502.4520'	2246116.9150'	718.688'	4
088	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST INTERCEPTOR	449+46.02'	-79.282'	636607.9700'	2246153.3770'	722.504'	2
090	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST INTERCEPTOR	450+37.56'	0.000'	636576.1780'	2246270.2320'	726.585'	3
106	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SOUTH	468+98.62'	0.000'	636245.1660'	2245476.1870'	718.372'	3
107	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST INTERCEPTOR	OLIVE ST INTERCEPTOR	OLIVE ST INTERCEPTOR	636286.2871'	2245455.4607'	717.922'	1
108	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST INTERCEPTOR	445+00.00'	0.000'	636227.4640'	2245873.2380'	723.569'	2
123	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST	LEWIS ST	LEWIS ST	637435.6940'	2244828.4140'	733.325'	0
124	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SW	478+58.75'	0.000'	637519.4870'	2244430.1250'	741.068'	3
125	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SW	475+21.88'	0.000'	637451.7350'	2244100.1360'	736.924'	2
126	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SW	474+51.85'	0.000'	637432.5270'	2244032.7970'	741.999'	2
127	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SW	472+27.93'	0.000'	637294.8120'	2243856.2290'	733.971'	2
128	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SW	470+00.00'	0.000'	637155.3260'	2243675.9630'	732.642'	1
164	Eccentric Cylindrical Structure	REG-CS-MH	48.000"	48.000"	48.000"	000'00'00"	000'00'00"	000'00'00"	638557.1920'	2243632.2290'	763.236'	0
165	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	000'00'00"	000'00'00"	000'00'00"	638546.9860'	2243693.0600'	760.886'	0
209	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	FAIRGROUND ST - WEST	6+38.63'	0.000'	638983.3120'	2243614.7630'	763.299'	3
215	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	FRAIZER ST	420+00.00'	0.000'	639812.7580'	2243803.2730'	762.981'	1
229	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST INTERCEPTOR	448+67.27'	-3878.199'	639804.7830'	2244083.3640'	752.764'	1
231	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	FRAIZER ST	425+46.76'	0.000'	639808.2520'	2244349.9530'	749.264'	2
232	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST	405+49.28'	-14.802'	639766.8350'	2244406.5270'	745.221'	2
233	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST	405+50.00'	0.000'	639767.3800'	2244421.3360'	744.610'	3
234	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	CUMBERLAND ST	429+60.97'	0.000'	639595.2480'	2244705.1790'	736.945'	2
237	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST	401+98.61'	592.623'	639409.0400'	2245009.7820'	735.418'	3
238	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST INTERCEPTOR	450+37.56'	-3070.733'	639371.2950'	2244998.7270'	736.169'	1
239	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST	401+61.50'	679.438'	639370.9070'	2245096.1540'	734.356'	2
240	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	CUMBERLAND ST	436+65.37'	0.000'	639200.3050'	2245287.4020'	735.249'	2
241	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	CUMBERLAND ST	437+81.66'	0.000'	639084.0580'	2245284.4630'	737.669'	2
242	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	CUMBERLAND ST	438+04.16'	0.000'	639084.7110'	2245306.9590'	736.560'	3
243	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	CUMBERLAND ST	438+83.37'	0.000'	639083.0620'	2245386.1480'	733.235'	4
244	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	CUMBERLAND ST	439+90.29'	0.000'	639078.4860'	2245492.9710'	726.094'	2
268	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	554+61.00'	-16.184'	638883.3770'	2245657.3820'	726.008'	2
269	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	551+94.24'	-7.766'	638681.5120'	2245831.9710'	720.900'	2
270	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	538+84.19'	-9.845'	637405.6970'	2246055.8910'	718.999'	3
271	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	534+96.66'	0.000'	637023.9830'	2246121.6900'	719.352'	3
272	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	533+59.77'	0.000'	636932.9590'	2246223.9320'	719.243'	2
273	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SOUTH	466+10.97'	0.000'	636232.8760'	2245188.8000'	716.557'	2
274	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SOUTH	463+16.17'	0.000'	636439.2960'	2244978.3280'	716.293'	3
275	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SOUTH	460+00.00'	0.000'	636685.9700'	2244780.5460'	718.000'	2
278	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST INTERCEPTOR	453+33.36'	0.000'	636602.0790'	2246564.8890'	724.279'	2
279	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	CORNSTALK RD	6+00.00'	0.000'	636629.4090'	2246857.1260'	724.319'	3
289	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST	20+58.09'	-32.318'	635657.0340'	2248557.4620'	732.284'	1
290	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST	17+87.02'	-264.263'	635999.1950'	2248470.6890'	750.271'	2
291	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST	17+67.34'	19.216'	635771.3660'	2248300.7320'	733.469'	2
292	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LINCOLN DR	48+54.34'	35.127'	636080.0110'	2248502.3070'	781.489'	2
293	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LINCOLN DR	49+60.76'	47.527'	636146.5490'	2248600.8160'	785.035'	2
294	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LINCOLN DR	49+80.94'	45.229'	636168.6940'	2248611.6110'	786.080'	2
330	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST	18+56.06'	20.764'	635722.1690'	2248374.4370'	731.833'	4
351	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	CORNSTALK RD	11+28.50'	0.000'	636995.3330'	2247175.1790'	734.957'	2
366	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST	400+13.33'	-14.810'	639230.9200'	2244400.2110'	760.578'	1
011A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	550+44.48'	0.000'	638538.0650'	2245840.1780'	720.031'	3
012A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	548+82.51'	0.000'	638376.1320'	2245836.6270'	722.451'	3
027A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	545+48.84'	0.000'	638048.7590'	2245911.5360'	721.225'	3
028A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	547+12.32'	0.000'	638212.3890'	2245883.9780'	721.674'	3
052A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	542+11.44'	0.000'	637729.6095'	2246008.2363'	720.412'	3
052B	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	542+11.63'	-24.755'	637725.4450'	2245983.8330'	724.949'	2
239A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	CUMBERLAND ST	434+80.50'	0.000'	639313.8773'	2245141.5327'	733.794'	2
268A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	555+21.82'	0.000'	638940.8053'	2245631.6368'	727.038'	2
269A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	551+87.94'	0.000'	638681.5120'	2245841.9710'	720.532'	2
270A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	538+82.43'	0.000'	637405.6970'	2246055.8910'	718.865'	3
289A	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	OLIVE ST	20+55.11'	10.588'	635620.7100'	2248534.4330'	732.165'	2
366A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST	400+00.00'	0.000'	639217.4181'	2244414.8627'	759.889'	1
366B	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	LEWIS ST	403+00.00'	0.000'	639517.3973'	2244418.3936'	760.510'	2
INT18	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	FRAIZER ST	423+07.06'	0.000'	639814.1540'	2244110.3310'	752.524'	3
NSLS2	EXISTING NSLS2 LIFT STATION	EX-SEWER-MH	48.000"	48.000"	48.000"	INTERCEPTOR SOUTH	INTERCEPTOR SOUTH	INTERCEPTOR SOUTH	636997.8630'	2244821.1447'	721.970'	2
SAN1	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	LINE 6G	LINE 6G	LINE 6G	635695.7380'	2248243.7170'	725.534'	2
SAN10	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"</							

STORM

MH TOP TYPE	Name	Description	Style	Inner Diameter	Inner Length	Inner Width	Reference Alignment	Station	Offset	Insertion Northing	Insertion Easting	Insertion Rim Elevation
S	1	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	72.000"	72.000"	72.000"	LINE 5G	321+27.70'	0.000'	635871.6082'	2247826.1971'	728.948'
FT	2	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	72.000"	72.000"	72.000"	LINCOLN DR	42+00.00'	0.000'	636006.7466'	2247918.6301'	733.777'
S	3	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	57+63.33'	0.000'	636826.1358'	2248957.9134'	848.739'
S	4	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	27+60.44'	0.000'	636854.2794'	2248776.7197'	841.349'
N/A	004	Cylindrical Junction Structure NF	EX-STORM-DI	48.000"	48.000"	48.000"	LEWIS ST2	0+16.62'	0.000'	638359.4450'	2244404.8720'	753.070'
CB	5	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	JEFFERSON DR2	27+61.87'	-16.524'	636848.0716'	2248761.3395'	841.466'
N/A	006	Rectangular Junction Structure NF	EX-STORM-DI	Junction Structure	24.000"	24.000"	LEWIS ST2	0+35.68'	0.000'	638358.8433'	2244423.9157'	752.888'
CB	7	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	JEFFERSON DR2	30+24.84'	-16.709'	637103.2588'	2248698.9167'	847.164'
S	8	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	30+18.54'	0.000'	637098.9361'	2248716.2421'	847.121'
S	9	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	32+19.89'	0.000'	637298.9332'	2248692.9371'	850.893'
CB	10	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	JEFFERSON DR2	32+37.92'	-16.756'	637315.1321'	2248674.4118'	851.088'
CB	11	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	JEFFERSON DR2	34+37.79'	-16.565'	637514.0849'	2248653.9717'	852.919'
FT	12	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	60.000"	60.000"	60.000"	LINCOLN DR	42+76.53'	0.000'	636083.2796'	2247918.2542'	734.926'
S	13	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	60.000"	60.000"	60.000"	LINCOLN DR	43+34.40'	0.000'	636106.5235'	2247971.2422'	739.398'
FT	14	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	60.000"	60.000"	60.000"	LINCOLN DR	43+98.74'	0.000'	636115.0747'	2248035.0142'	746.955'
CB	15	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LINCOLN DR	43+95.34'	25.653'	636089.1971'	2248035.0514'	745.572'
FT	16	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	60.000"	60.000"	60.000"	LINCOLN DR	46+00.41'	0.000'	636089.4843'	2248235.0512'	765.581'
CB	17	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LINCOLN DR	46+05.84'	24.718'	636064.6030'	2248239.6844'	766.416'
CB	18	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LINCOLN DR	48+01.17'	-18.236'	636101.2162'	2248436.3045'	778.162'
FT	19	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	60.000"	60.000"	60.000"	LINCOLN DR	48+15.38'	0.000'	636082.5307'	2248449.9087'	778.069'
S	20	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	50+08.01'	29.025'	636200.2485'	2248611.5952'	786.775'
S	21	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	60.000"	60.000"	60.000"	LINCOLN DR	50+13.13'	0.000'	636219.5350'	2248589.3086'	786.522'
S	22	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	52+15.68'	0.000'	636393.5352'	2248692.9933'	798.080'
S	23	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LINCOLN DR	52+15.68'	37.197'	636374.7233'	2248725.0822'	798.235'
FT	24	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LAKEVIEW DR	80+38.55'	0.000'	636492.9715'	2248792.9829'	809.681'
FT	25	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	53+58.49'	0.000'	636517.4642'	2248763.2134'	810.947'
N/A	26	Cylindrical Junction Structure NF	EX-STORM-MH	48.000"	48.000"	48.000"	CUMBERLAND ST	438+71.23'	4.992'	639078.3240'	2245373.9100'	730.330'
FT	27	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	55+71.55'	0.000'	636710.5149'	2248847.9337'	831.526'
FT	28	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	56+38.01'	0.000'	636708.6239'	2248914.3639'	834.584'
FT	29	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	58+88.65'	0.000'	636943.6476'	2249001.4629'	863.778'
FT	30	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	59+12.71'	0.000'	636951.7934'	2248978.8256'	863.475'
FT	31	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	61+12.71'	0.000'	637140.6329'	2249044.7015'	886.988'
CB	32	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LINCOLN DR	61+13.96'	24.706'	637131.9789'	2249067.8764'	886.027'
FT	34	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	62+89.59'	0.000'	637302.9878'	2249114.8996'	905.903'
FT	35	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	KENNEDY DR	69+78.87'	0.000'	637096.0012'	2249262.0160'	912.083'
FT	36	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	KENNEDY DR	70+05.50'	0.000'	637084.9238'	2249237.8005'	912.345'
FT	37	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	KENNEDY DR	72+05.50'	0.000'	637265.7422'	2249152.3329'	906.668'
S	38	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	KENNEDY DR	73+61.62'	0.000'	637402.8919'	2249088.5792'	907.531'
FT	39	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	KENNEDY DR	74+61.28'	0.000'	637497.5761'	2249057.4918'	908.288'
FT	40	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	KENNEDY DR	76+61.28'	0.000'	637697.0723'	2249043.3055'	911.108'
N/A	41	Cylindrical Junction Structure NF	EX-STORM-MH	48.000"	48.000"	48.000"	KENNEDY DR	77+56.53'	0.000'	637791.9174'	2249034.4426'	912.830'
FT	42	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	40+53.24'	0.000'	638130.5757'	2248660.1691'	857.023'
FT	43	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	40+84.94'	0.000'	638129.2585'	2248628.4938'	856.764'
FT	44	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	38+53.24'	0.000'	637930.7156'	2248667.6464'	855.993'
CB	45	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	JEFFERSON DR2	38+51.28'	-31.283'	637929.9545'	2248636.3111'	855.933'
CB	46	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	JEFFERSON DR2	36+53.08'	-15.718'	637730.1131'	2248644.2747'	853.962'
S	47	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	36+53.08'	0.000'	637730.7069'	2248659.9811'	854.312'
S	48	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	34+37.79'	0.000'	637515.6685'	2248670.4609'	852.678'
S	49	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	13+42.23'	0.000'	636023.3083'	2247957.4726'	735.233'
CB	50	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LINCOLN DR	49+56.99'	29.662'	636149.2385'	2248578.3025'	783.908'
FT	51	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	60.000"	60.000"	60.000"	LINCOLN DR	49+60.76'	0.000'	636174.5816'	2248562.4367'	783.532'
FT	54	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	53+06.96'	0.000'	636475.2756'	2248733.6231'	807.454'
CB	55	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LINCOLN DR	56+17.86'	-19.835'	636729.0237'	2248894.7917'	836.061'
FT	56	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LAKEVIEW DR	82+38.55'	0.000'	636387.9610'	2248963.1968'	819.947'
FT	57	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR	97+01.53'	0.000'	636113.2654'	2248760.0420'	797.018'
FT	58	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR	99+63.20'	0.000'	635974.3840'	2248981.8240'	797.922'
CB	59	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	SUNSET DR	100+03.55'	0.000'	635939.7027'	2248961.2019'	798.225'

N/A	60	Rectangular Junction Structure NF	EX-STORM-MH	Junction Structure	24.000"	24.000"	CHURCH	490+00.00'	0.000'	637513.3110'	2244506.8610'	738.836'
S	61	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LAKEVIEW DR #2	152+03.93'	0.000'	635223.3008'	2249453.5845'	759.425'
FT	62	Rectangular Junction Structure NF	REG-PRO-STORM-MH	Junction Structure	24.000"	24.000"	LAKEVIEW DR #2	152+06.52'	-10.576'	635230.1552'	2249445.1245'	758.856'
FT	63	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LAKEVIEW DR #2	152+78.49'	0.000'	635290.7325'	2249485.3957'	772.513'
FT	64	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LAKEVIEW DR #2	154+15.36'	0.000'	635419.9918'	2249530.3776'	787.345'
CB	66	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LAKEVIEW DR #2	154+19.93'	36.870'	635410.7430'	2249566.3605'	787.483'
FT	67	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LAKEVIEW DR #2	156+01.60'	0.000'	635593.2946'	2249598.5910'	800.401'
CB	67A	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LAKEVIEW DR #2	156+08.47'	26.510'	635590.6676'	2249625.8508'	800.721'
S	68	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR	107+24.47'	0.000'	635634.5221'	2249613.6236'	803.190'
S	70	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	LAKEVIEW DR #2	156+62.95'	0.000'	635651.9129'	2249615.2381'	802.219'
S	71	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR	111+23.33'	0.000'	635554.9846'	2250004.4701'	802.943'
N/A	071	Cylindrical Junction Structure NF	EX-STORM-MH	48.000"	48.000"	48.000"	INTERCEPTOR EAST	539+05.86'	-54.471'	637419.2120'	2246008.1580'	726.946'
S	72	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR	112+09.15'	0.000'	635544.5532'	2250089.6614'	804.514'
CB	072	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	CHURCH	490+86.36'	0.000'	637598.3260'	2244491.6580'	740.727'
S	73	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR	113+46.34'	0.000'	635655.3970'	2250170.4999'	810.022'
S	74	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR	114+75.06'	0.000'	635780.5401'	2250200.6237'	817.786'
CB	75	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	SUNSET DR	114+75.21'	-9.235'	635782.9653'	2250191.7113'	817.742'
S	76	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR	116+02.68'	0.000'	635904.1922'	2250232.1989'	825.313'
CB	77	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	SUNSET DR	116+27.49'	0.000'	635910.2003'	2250208.1258'	823.952'
S	79	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	14+97.60'	0.000'	635932.2824'	2248083.3880'	735.752'
N/A	87	Cylindrical Junction Structure NF	EX-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	OLIVE ST	OLIVE ST	634886.3620'	2248836.9710'	724.614'
N/A	88	Cylindrical Junction Structure NF	EX-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	OLIVE ST	OLIVE ST	635060.3670'	2248952.9170'	734.703'
N/A	89	Cylindrical Junction Structure NF	EX-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	OLIVE ST	OLIVE ST	635145.9570'	2249013.9290'	730.787'
S	90	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LAKEVIEW DR #2	151+46.65'	0.000'	635167.0700'	2249442.6260'	742.538'
S	91	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LAKEVIEW DR #2	150+90.74'	0.000'	635113.5120'	2249426.5810'	736.000'
FT	93	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	MARIETTA RD	161+81.72'	0.000'	638876.6293'	2243278.1278'	770.878'
S	96	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	BELFORD ST	0+00.00'	0.000'	638708.5829'	2242317.8222'	831.151'
FT	97	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	BELFORD ST	3+78.74'	0.000'	638705.2040'	2242696.5440'	820.121'
S	98	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	BELFORD ST	6+00.00'	0.000'	638707.7792'	2242917.7955'	810.535'
S	99	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	BELFORD ST	8+00.00'	0.001'	638705.9245'	2243117.7836'	784.864'
S	100	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	BELFORD ST	11+59.15'	0.000'	638707.2585'	2243476.8882'	765.538'
FT	101	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	MARIETTA RD	160+28.67'	0.000'	638723.5810'	2243276.9390'	770.907'
S	101A	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	BELFORD ST	9+59.15'	0.000'	638709.2451'	2243276.8980'	771.143'
CB	102	Rectangular Junction Structure NF	REG-PRO-STORM-DI	Junction Structure	24.000"	24.000"	BELFORD ST	9+58.81'	14.332'	638694.9093'	2243276.8571'	770.925'
S	102A	Eccentric Cylindrical Structure	REG-PRO-SEWER-MH	48.000"	48.000"	48.000"	BELFORD ST	9+81.94'	14.446'	638694.5737'	2243299.5492'	770.818'
N/A	103	Rectangular Structure Slab Top Rectangular Frame	EX-STORM-DI	Junction Structure	15.000"	15.000"	BELFORD ST	3+71.42'	-18.470'	638723.7390'	2242689.3950'	820.627'
CB	105	Cylindrical Junction Structure NF	REG-PRO-STORM-DI	48.000"	48.000"	48.000"	WALNUT ST STORM LINE C	0+00.00'	0.000'	639779.9130'	2244096.1850'	752.463'
FT	107	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	54+93.62'	0.000'	636634.5039'	2248830.7440'	823.600'
CB	108	Rectangular Structure Slab Top Rectangular Frame	REG-PRO-STORM-DI	Junction Structure	15.000"	15.000"	CUMBERLAND ST	434+33.61'	-4.356'	639344.8644'	2245106.0719'	733.759'
CB	109	Rectangular Structure Slab Top Rectangular Frame	REG-PRO-STORM-DI	Junction Structure	15.000"	15.000"	BELFORD ST	13+00.50'	10.123'	638693.7840'	2243615.1160'	763.320'
S	109A	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	BELFORD ST	12+89.82'	0.000'	638706.4038'	2243607.5604'	762.190'
S	110	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	BELFORD ST	13+39.67'	0.000'	638692.9990'	2243655.5650'	761.543'
FT	116	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	MARIETTA RD	163+06.28'	0.000'	639001.1821'	2243279.0953'	769.290'
N/A	116A	Null Structure	EX-STORM-MH	Null Structure	Null Structure	Null Structure	MARIETTA RD	162+99.22'	-7.995'	638994.1870'	2243271.0460'	767.804'
N/A	141	Rectangular Structure Slab Top Rectangular Frame	EX-STORM-DI	Junction Structure	15.000"	15.000"	CUMBERLAND ST	436+10.05'	7.408'	639228.4480'	2245239.1980'	734.395'
N/A	151	Null Structure	EX-STORM-DI	Null Structure	Null Structure	Null Structure	BELFORD ST	BELFORD ST	BELFORD ST	636089.0480'	2247912.2550'	731.676'
N/A	154	Null Structure	EX-STORM-DI	Null Structure	Null Structure	Null Structure	BELFORD ST	BELFORD ST	BELFORD ST	636037.8770'	2247971.6980'	733.105'
S	160	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	17+81.89'	0.000'	635779.7828'	2248323.3127'	733.525'
FT	162	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	19+50.05'	-13.371'	635699.9850'	2248471.9450'	731.932'
S	162A	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	19+55.60'	0.000'	635685.7402'	2248469.3699'	731.974'
FT	163	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	19+72.09'	0.000'	635669.5160'	2248466.4370'	731.331'
S	165	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	21+65.13'	0.000'	635577.6949'	2248636.2396'	733.712'
CUST	166	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST EAST	90+00.00'	0.000'	635415.0570'	2248849.7580'	735.045'
N/A	167	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	BELFORD ST	13+09.03'	11.885'	638689.7920'	2243622.8590'	762.589'
S	167A	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST	23+36.82'	0.000'	635486.0275'	2248781.4093'	735.453'
S	167B	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST EAST	91+64.84'	0.000'	635527.9700'	2248802.2940'	738.293'
N/A	168	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	BELFORD ST	13+17.80'	22.895'	638676.8270'	2243628.3510'	762.595'
S	168A	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	OLIVE ST EAST	90+22.98'	0.000'	635434.8424'	2248861.4455'	736.383'
N/A	169	Eccentric Cylindrical Structure	EX-SEWER-MH	48.000"	48.000"	48.000"	BELFORD ST	13+12.36'	-7.106'	638707.1860'	2243631.1800'	762.218'

N/A	175	Eccentric Cylindrical Structure	EX-STORM-MH	48.000"	48.000"	48.000"	SUNSET DR STORM CROSSING	171+04.39'	0.000'	636066.4850'	2249030.9650'	799.597'
CB	178	Cylindrical Junction Structure NF	REG-PRO-STORM-DI	48.000"	48.000"	48.000"	LINCOLN DR	50+22.14'	41.166'	636206.2014'	2248629.2970'	787.318'
S	188	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	LINCOLN DR	63+27.32'	0.000'	637311.7540'	2249151.6010'	906.635'
N/A	192	Rectangular Junction Structure NF	EX-STORM-DI	Junction Structure	48.000"	48.000"	JEFFERSON DR2	28+75.67'	31.629'	636971.3343'	2248752.7137'	843.701'
FT	194	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	JEFFERSON DR2	28+83.65'	0.000'	636964.1250'	2248720.8991'	844.088'
S	230	Cylindrical Junction Structure NF	REG-PRO-STORM-MH	48.000"	48.000"	48.000"	WALNUT ST STORM LINE C	0+34.02'	0.000'	639805.6190'	2244073.9050'	752.942'
N/A	CB167	Rectangular Junction Structure NF	EX-STORM-DI	Junction Structure	36.000"	36.000"	OLIVE ST	OLIVE ST	OLIVE ST	635450.0790'	2248870.4460'	735.936'
N/A	HW1	Concrete Rectangular Headwall 8' x 4'-6" x 1'	NO DISPLAY	Inlet-Outlet Structure	Inlet-Outlet Structure	Inlet-Outlet Structure	LINE 5G	320+37.83'	0.000'	635796.4656'	2247776.8918'	723.156'
N/A	HW2	Concrete Rectangular Headwall 2' x 3' x 1'	NO DISPLAY	Inlet-Outlet Structure	Inlet-Outlet Structure	Inlet-Outlet Structure	BELFORD ST	13+46.67'	0.000'	638692.9990'	2243662.5650'	759.374'
N/A	HW3	Concrete Rectangular Headwall 2' x 3' x 1'	NO DISPLAY	Inlet-Outlet Structure	Inlet-Outlet Structure	Inlet-Outlet Structure	CUMBERLAND ST	434+35.95'	-30.075'	639364.3431'	2245123.0276'	731.050'

S=Standard Eccentric Manhole

FT=Area Inlet Manhole Flat Top & removable grat

CB=Catch Basin - Curb Inlet

CB=Catch Basin - Storm Drain



ESTIMATE

The approximate work to be bid upon is described as follows:

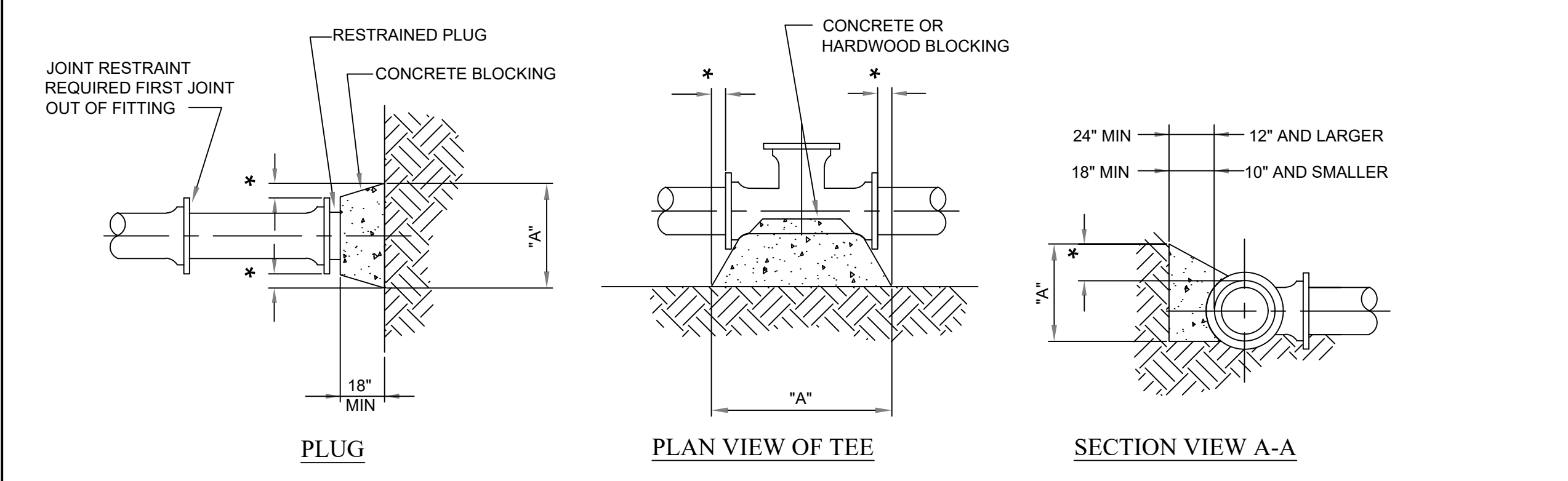
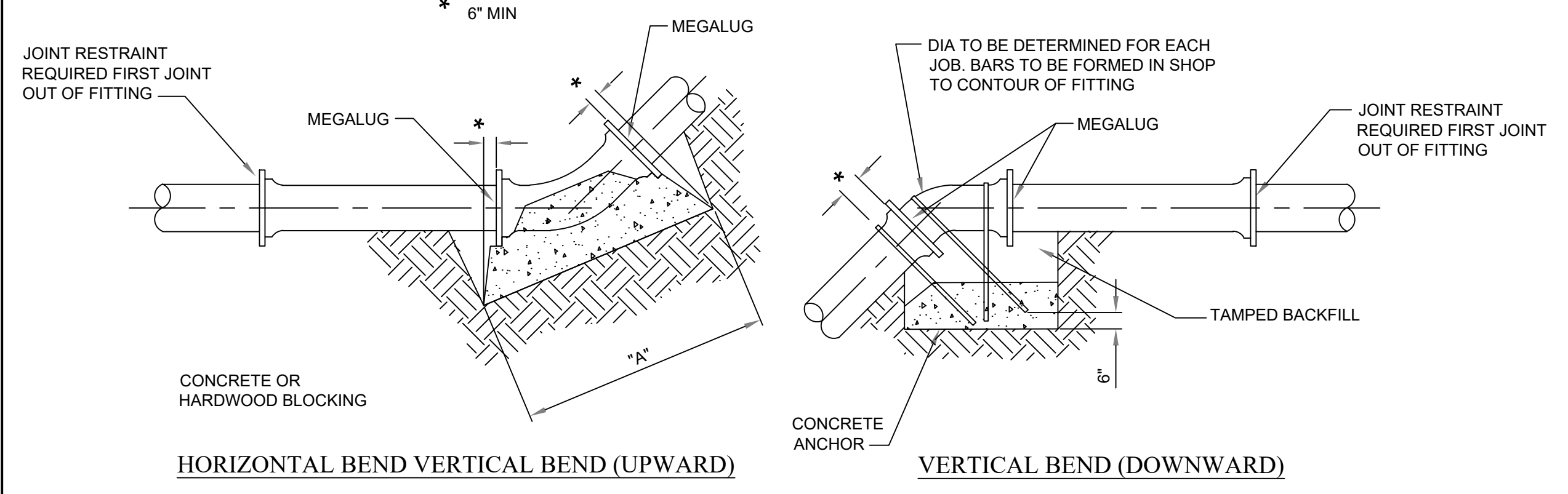
Installation of 11,253 LF of storm sewer various sizes, 860 LF of water line various sizes, 5,206 LF of 8" sanitary sewer, lining of 3,299 LF of existing sanitary sewer, 37,256 SY of pavement planning, and 1,552 CY of intermediate and 1,552 CY of surface course asphalt and related appurtenances.

The Engineer's estimate for cost of construction is: **\$5,622,600.00.**

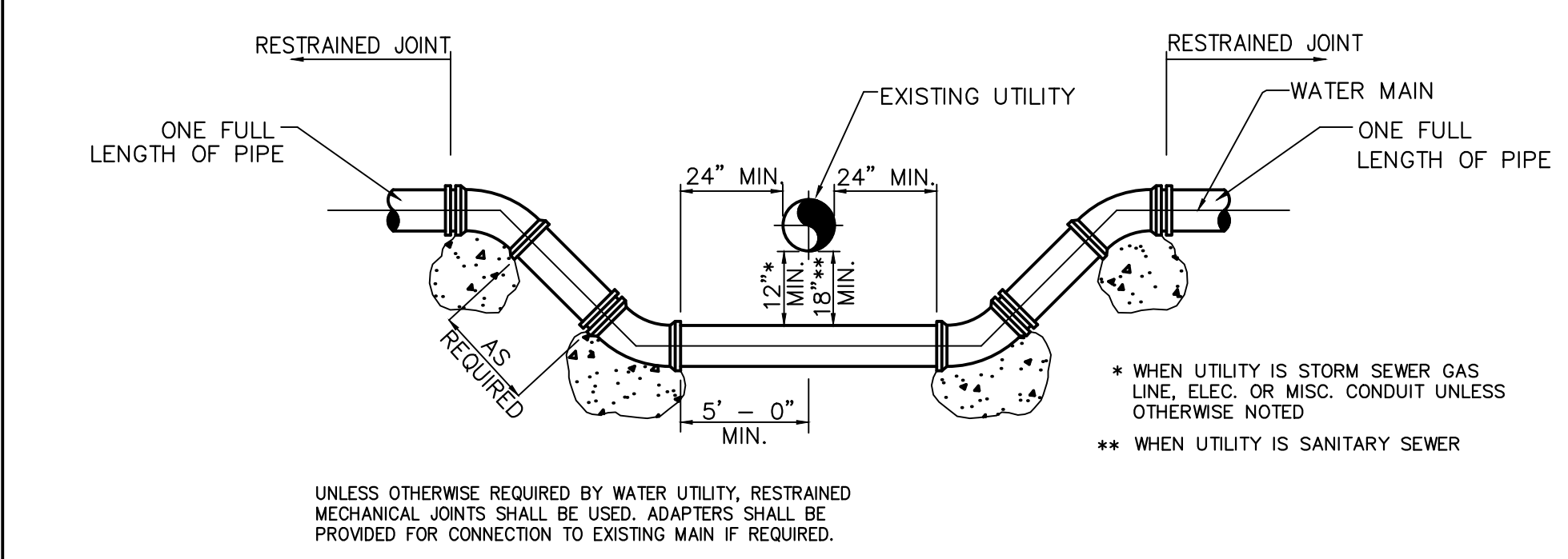
USER: scott m. dotson
PLOT DATE/TIME: 3/1/2023 5:17 PM
CAD FILE: R:\020\020-10020 - VILLAGE OF CALDWELL - AREA E, AREA G, AND INTERCETOR\Drawing\73 GENERAL DETAILS - WATERLINE.dwg

"A" HORIZONTAL BENDS						
	90°	45°	22.5°	TEE	PLUG	
6"	6"	6"	6"	6"	6"	6"
8"	8"	8"	8"	8"	8"	8"
10"	10"	10"	10"	10"	10"	10"
12"	12"	12"	12"	12"	12"	12"
16"	16"	16"	16"	16"	16"	16"

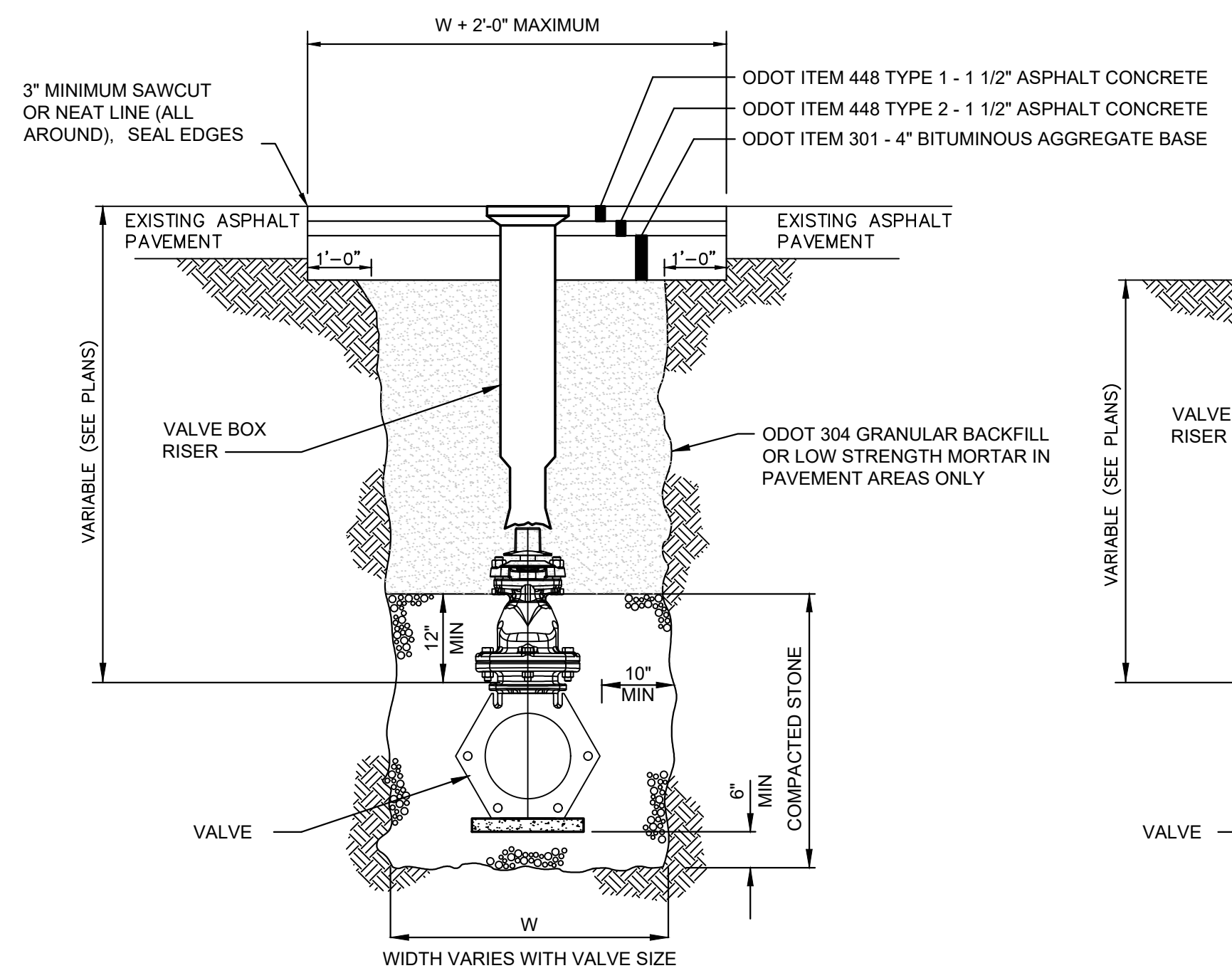
MINIMUM VOLUME OF CONCRETE FOR TOP OF VERTICAL BENDS	
6"	4 C.F.
8"	11 C.F.
10"	22 C.F.
12"	37 C.F.
16"	71 C.F.



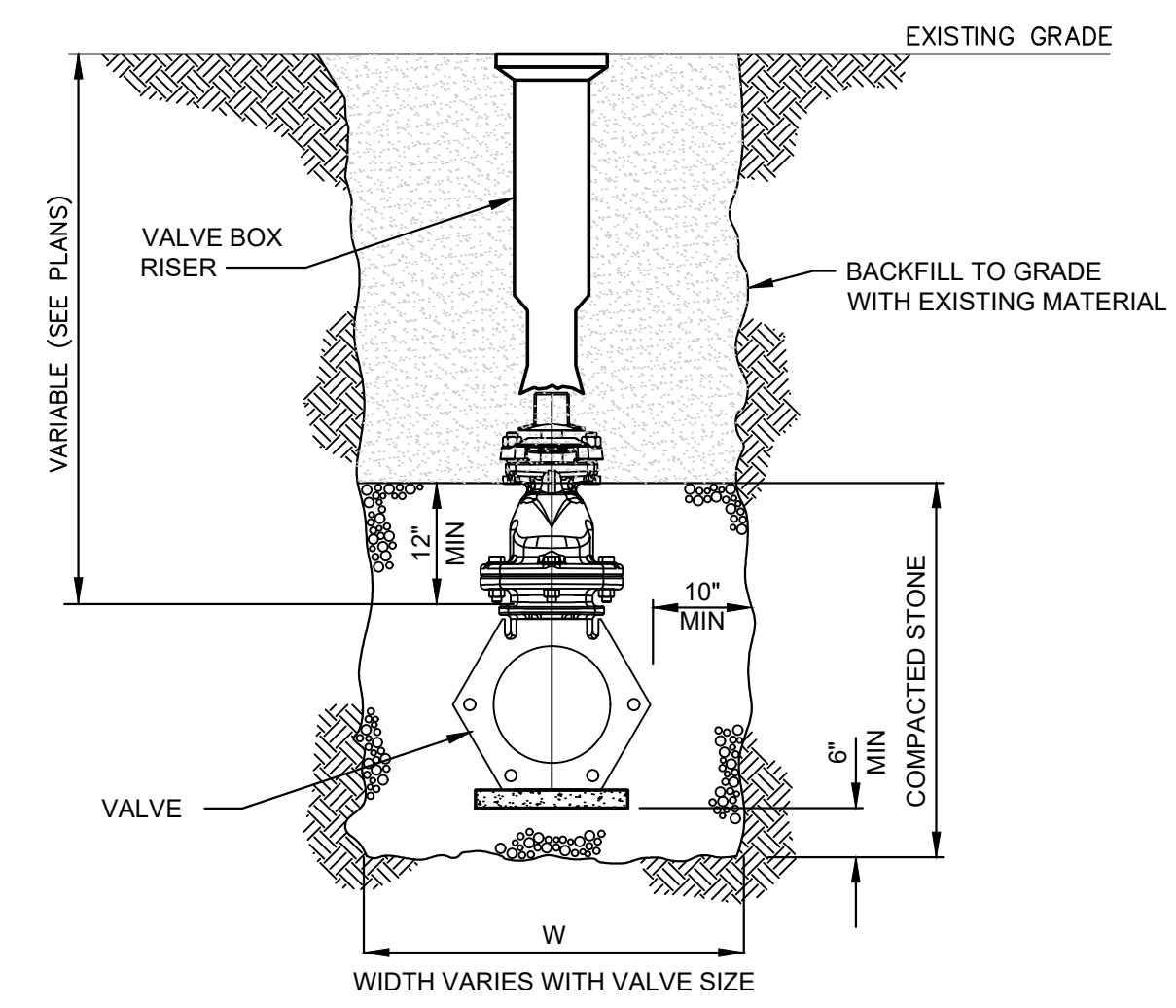
TYPICAL WATERMAIN THRUST BLOCKING DETAILS
NOT TO SCALE



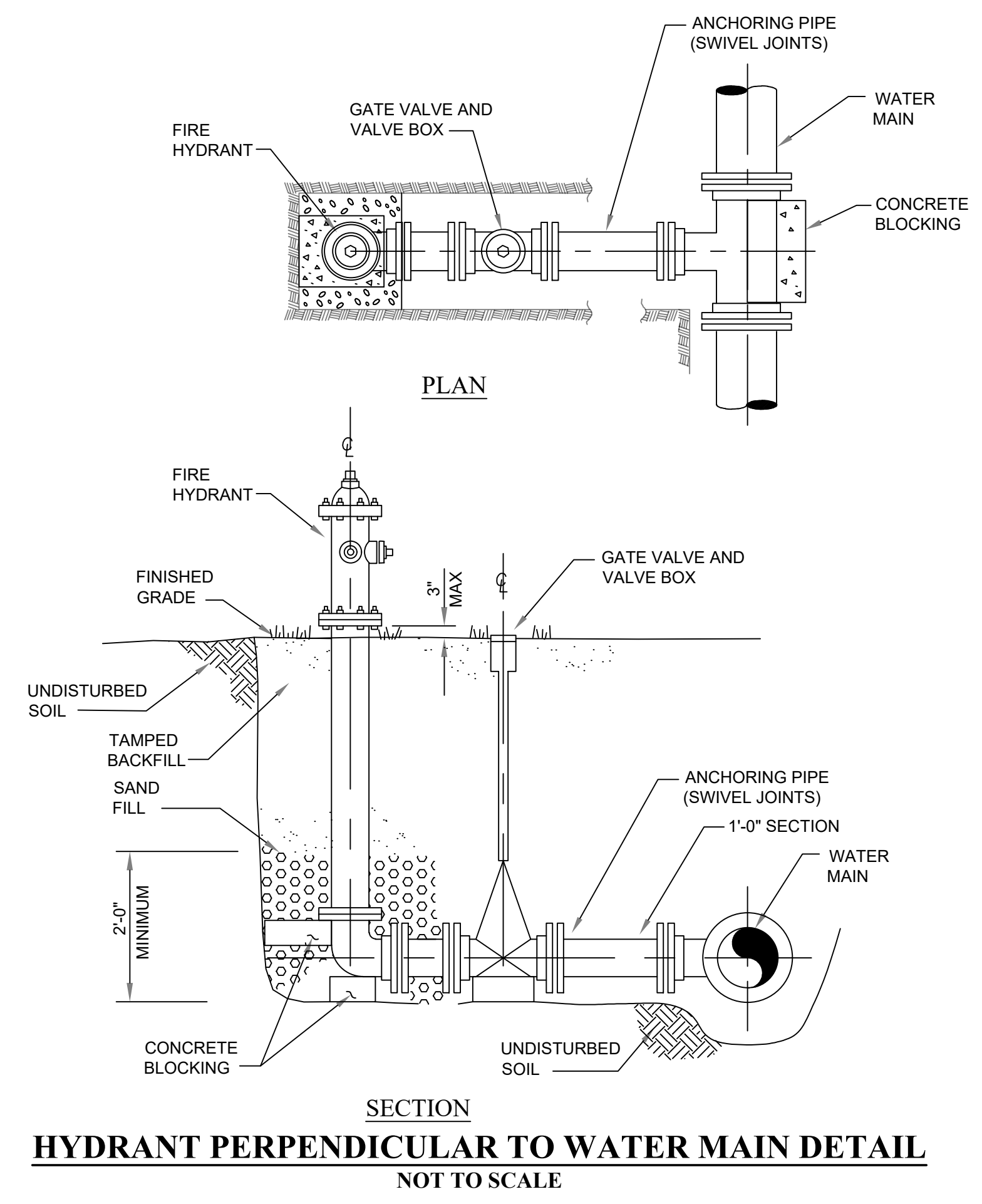
WATER LOWERING DETAIL
NOT TO SCALE



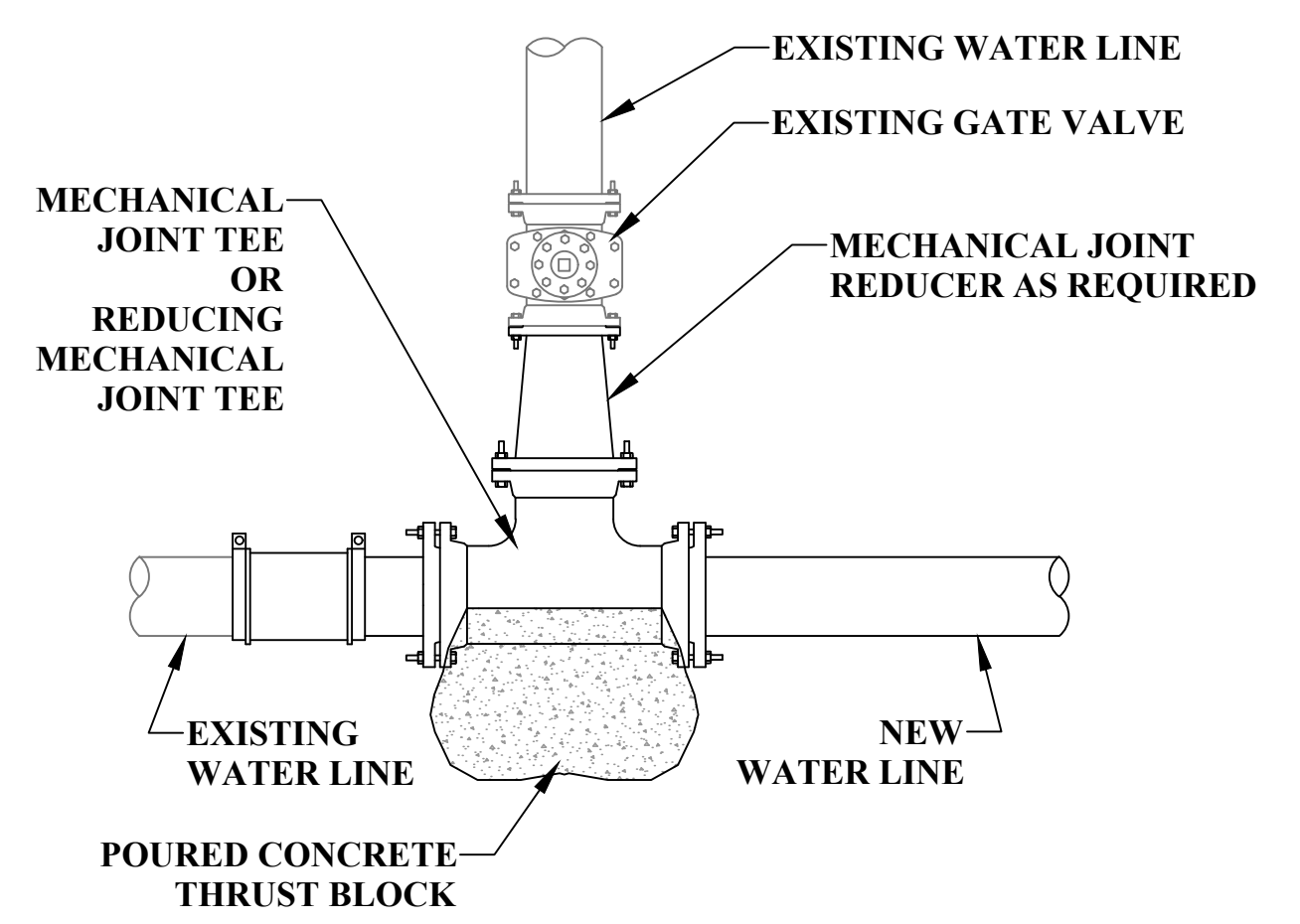
TYPE 1 VALVE CONNECTION - PAVEMENT REPLACEMENT
NOT TO SCALE



TYPE 2 VALVE CONNECTION - NON-PAVEMENT
NOT TO SCALE



HYDRANT PERPENDICULAR TO WATER MAIN DETAIL
NOT TO SCALE



TIE IN DETAIL
NOT TO SCALE

NO.	BY	DATE	DESCRIPTION
1	SMD	1MAR2023	SHEET ADDED TO PROJECT

SCALE: NOT TO SCALE	
DRAWN: SMD	DATE: 1MAR2023
CHECKED: ---	DATE: ---
APPROVED: ---	DATE: ---
SURVEY DATE:	
SURVEY BY:	
FIELD BOOK No.:	

THRASHER
 400 3rd STREET SE, SUITE 309
 CANTON, OHIO 44702
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PHASE No.	
CONTRACT No.	
PROJECT No.	020-10020

VILLAGE OF CALDWELL
 AREA E, AREA G,
 AND INTERCETOR
 GENERAL DETAILS - WATERLINE

SHEET No.
73