





### SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: TAYLOR CORSANO S.E. #14263  
SOIL TESTING WITNESSED BY: MARTHA SULLIVAN AND BRUCE BOUCK  
DATE: JANUARY 30, 2020

<b>TP#20-1</b> EL. 103.1 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 11" A HORIZON LOAM 7.5YR 2.5/2 102.2 11" TO 26" B HORIZON SANDY LOAM 7.5YR 5/6 100.9 26" TO 156" C LAYER SAND 7.5YR 5/6 90.1 PR = 5 MIN/IN BOTTOM OF HOLE	<b>TP#20-2</b> EL. 95.9 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 2" O HORIZON LOAM 7.5YR 2.5/1 95.7 2" TO 6" A HORIZON LOAM 7.5YR 4/4 95.4 6" TO 14" B LAYER SANDY LOAM 7.5 Y 7/8 94.7 14" TO 72" C1 LAYER LOAMY SAND 7.5YR 4/3 89.9 72" TO 168" C2 LAYER SAND 7.5YR 5/4 81.9 PR = 2 MIN/IN BOTTOM OF HOLE	<b>TP#20-3</b> EL. 95.7 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 2" O HORIZON LOAM 7.5YR 2.5/1 95.3 4" TO 16" A HORIZON LOAM 7.5YR 3/3 94.3 16" TO 24" B LAYER SANDY LOAM 7.5 Y 4/6 93.7 24" TO 67" C1 LAYER LOAMY SAND 7.5 Y 4/6 90.1 67" TO 180" C2 LAYER SAND 7.5 Y 5/4 80.7 PR = 7 MIN/IN BOTTOM OF HOLE	<b>TP#20-4</b> EL. 101.2 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 8" A HORIZON LOAM 10YR 3/4 100.5 8" TO 24" BC HORIZON LOAMY SAND 10YR 4/6 99.2 24" TO 186" C LAYER SANDY LOAM 10YR 5/3 85.7 PR = 7 MIN/IN BOTTOM OF HOLE	<b>OSE-TP#1</b> EL. 100.1 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 70" FILL 94.3 70" TO 113" C1 LAYER COARSE SAND 2.5Y 5/4 90.7 113" TO 180" C2 LAYER SAND 2.5Y 7/2 85.1 BOTTOM OF HOLE	<b>OSE-TP#2</b> EL. 105.28 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 21" FILL 103.5 21" TO 64" C1 LAYER COARSE SAND 2.5Y 5/4 100.0 64" TO 174" C2 LAYER LOAMY SAND 2.5Y 6/3 90.8 BOTTOM OF HOLE	<b>OSE-TP#3</b> EL. 100.7 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 72" C1 LAYER LOAMY SAND 2.5Y 7/4 94.7 72" TO 162" C2 LAYER SAND 2.5Y 6/3 87.2 BOTTOM OF HOLE	<b>TP#11</b> EL. 104.6 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 2" ASPHALT 104.5 2" TO 28" FILL 102.3 28" TO 32" A LAYER SANDY LOAM 10YR 3/2 102.0 32" TO 38" Bw LAYER LOAMY SAND 10YR 6/6 101.5 38" TO 122" C LAYER LOAMY SAND 2.5Y 6/4 94.5 PR = 12 MIN/IN BOTTOM OF HOLE	<b>TP#12</b> EL. 104.8 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 2" ASPHALT 104.6 2" TO 19" FILL 103.2 19" TO 126" Bw LAYER LOAMY SAND 2.5Y 6/4 94.2 PR = 9 MIN/IN BOTTOM OF HOLE	<b>TP#13</b> EL. 106.2 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 2" ASPHALT 106.1 2" TO 26" FILL 104.1 26" TO 29" A LAYER SANDY LOAM 10YR 3/2 103.8 29" TO 33" Bw LAYER SANDY LOAM 10YR 6/6 103.5 33" TO 108" C LAYER LOAMY SAND 2.5Y 6/4 97.2 108" TO 132" C2 LAYER LOAMY SAND 2.5Y 6/4 95.2 BOTTOM OF HOLE	<b>TP#14</b> EL. 94.6 GROUNDWATER ENCOUNTERED AT 136" 0" TO 5" ASPHALT 94.2 5" TO 11" Bw LAYER LOAMY SAND 93.7 11" TO 56" C LAYER LOAMY SAND 2.5Y 6/4 89.9 56" TO 156" C2 LAYER LOAMY SAND 2.5Y 6/4 81.6 PR = 17 MIN/IN BOTTOM OF HOLE	<b>TP#15</b> EL. 94.08 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 2" ASPHALT 93.9 2" TO 46" FILL 90.2 46" TO 48" A LAYER SANDY LOAM 10YR 3/2 90.1 48" TO 55" Bw LAYER LOAMY SAND 10YR 6/6 89.5 55" TO 98" C LAYER LOAMY SAND 2.5Y 7/2 85.9 98" TO 120" C2 LAYER LOAMY SAND 2.5Y 5/4 84.1 BOTTOM OF HOLE
<b>TP#20-5</b> EL. 99.3 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 6" A HORIZON LOAM 7.5 YR 3/1 98.8 6" TO 16" B HORIZON SANDY LOAM 7.5YR 4/6 97.9 16" TO 174" C LAYER LOAMY SAND 7.5 Y 4/3 84.8 BOTTOM OF HOLE	<b>TP#20-6</b> EL. 104.3 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 5" Ap LAYER LOAM 7.5 YR 3/1 103.9 5" TO 30" Bw LAYER LOAMY SAND 7.5 Y 4/6 101.8 30" TO 44" BC LAYER LOAMY SAND 7.5 Y 5/3 100.6 44" TO 147" C LAYER LOAMY SAND 7.5YR 4/4 92.0 BOTTOM OF HOLE	<b>TP#20-7</b> EL. 100.0 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 10" FILL 99.1 10" TO 162" C LAYER LOAMY SAND 7.5 YR 5/6 86.5 BOTTOM OF HOLE					<b>TP#16</b> EL. 101.0 GROUNDWATER ENCOUNTERED AT 136" 0" TO 4" A LAYER SANDY LOAM 10YR 3/2 100.7 4" TO 24" Bw LAYER LOAMY SAND 10YR 5/6 99.0 24" TO 152" C LAYER LOAMY SAND 2.5Y 6/4 88.3 BOTTOM OF HOLE	<b>TP#17</b> EL. 100 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 2" ASPHALT 99.8 2" TO 47" FILL 96.1 47" TO 56" A LAYER SANDY LOAM 10YR 3/2 95.3 56" TO 58" Bw LAYER SANDY LOAM 10YR 6/6 95.2 58" TO 124" C LAYER FINE SAND 2.5Y 7/2 89.7 PR = 4 MIN/IN BOTTOM OF HOLE			

### SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: DAVID NEWMALL S.E. #14226  
DATE: JANUARY 5, 2023

<b>TP#23-12</b> EL. <u>101.9</u> NO REDOX/GROUNDWATER ENCOUNTERED	<b>TP#23-13</b> EL. <u>86.9</u> NO REDOX/GROUNDWATER ENCOUNTERED	<b>TP#23-14</b> EL. <u>98.9</u> GROUNDWATER ENCOUNTERED AT 34"	<b>TP#23-15</b> EL. <u>100.3</u> REDOX ENCOUNTERED AT 28"	<b>TP#23-16</b> EL. <u>105.1</u> REDOX ENCOUNTERED AT 36"
0" TO 6" A LAYER LOAM  101.4	0" TO 5" LOAM  86.5	0" TO 32" FILL  96.2	0" TO 18" A LAYER LOAMY SAND 10YR 2/2  98.8	0" TO 28" FILL  102.8
6" TO 24" B LAYER SANDY LOAM  99.9	5" TO 19" B LAYER LOAMY SAND  85.3	32" TO 44" AB LAYER LOAMY SAND 10YR 2/2  95.2	18" TO 30" B LAYER LOAMY SAND 10YR 5/6  97.8	28" TO 38" B LAYER LOAMY SAND  102.0
24" TO 108" C LAYER LOAMY SAND  92.9	19" TO 106" C LAYER COARSE SAND  78.0	44" TO 70" C1 LAYER SAND 2.5Y 6/2  93.0	30" TO 58" C1 LAYER LOAMY SAND 2.5Y 5/2  95.5	38" TO 70" C1 LAYER LOAMY SAND  99.3
BOTTOM OF HOLE	106" TO 108" D LAYER FINE SAND  77.8	BOTTOM OF HOLE	BOTTOM OF HOLE	BOTTOM OF HOLE
	BOTTOM OF HOLE			
<b>TP#23-17</b> EL. <u>111.1</u> NO REDOX/GROUNDWATER ENCOUNTERED	<b>TP#18-A</b> EL. <u>106.0</u> NO REDOX/GROUNDWATER ENCOUNTERED	<b>TP#23-18B</b> EL. <u>106.0</u> WEEPING/REDOX ENCOUNTERED AT ±88"	<b>TP#23-19</b> EL. <u>120.4</u> GROUNDWATER ENCOUNTERED AT ±62"	<b>TP#23-20</b> EL. <u>111.47</u> GROUNDWATER ENCOUNTERED AT 78"
0" TO 6" A HORIZON LOAMY SAND 10YR 3/2  110.6	0" TO 72" FILL  100.0	0" TO 48" FILL  102.0	0" TO 12" A HORIZON LOAMY SAND 10YR 5/6  119.4	0" TO 8" A LAYER LOAM  110.8
6" TO 16" B HORIZON LOAMY SAND 10YR 5/6  109.8	72" TO 94" B HORIZON LOAMY SAND  98.2	48" TO 60" SAND  101.0	12" TO 28" B HORIZON LOAMY SAND 10YR 5/6  118.2	8" TO 16" B LAYER LOAMY SAND  110.1
16" TO 120" C1 LAYER LOAMY SAND 2.5Y 5/2  101.1	94" TO 108" C1 LAYER SAND  97.0	BOTTOM OF HOLE	28" TO 68" C1 LAYER FINE SAND 2.5Y 5/4  114.9	16" TO 110" C LAYER SAND  102.3
BOTTOM OF HOLE	BOTTOM OF HOLE		BOTTOM OF HOLE	BOTTOM OF HOLE
<b>TP#23-21</b> EL. <u>97.1</u> REDOX ENCOUNTERED AT 48"	<b>TP#23-22</b> EL. <u>99.0</u> GROUNDWATER ENCOUNTERED AT 70"	<b>TP#23-24</b> EL. <u>88.4</u> GROUNDWATER ENCOUNTERED AT 100"		
0" TO 22" FILL  95.3	0" TO 12" A LAYER LOAMY SAND 10YR 3/2  98.0	0" TO 8" A LAYER LOAM  81.6		
22" TO 30" AB LAYER LOAMY SAND 10YR 3/2  94.6	12" TO 38" B LAYER LOAMY SAND 10YR 5/8  95.9	8" TO 26" B LAYER LOAMY SAND  81.6		
30" TO 42" B LAYER LOAMY SAND 10YR 5/6  93.6	38" TO 90" C1 LAYER SAND 2.5Y 5/4  91.5	26" TO 120" C LAYER SAND  81.6		
42" TO 80" C1 LAYER LOAMY SAND 2.5Y 5/2  90.4	BOTTOM OF HOLE	BOTTOM OF HOLE		
BOTTOM OF HOLE				

### SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: RAYMOND WILLIS S.E. #2612  
SOIL TESTING WITNESSED BY: MARTHA SULLIVAN AND BRUCE BOUCK  
DATE: OCTOBER 28, 2021

### SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: RAYMOND WILLIS S.E. #2612  
SOIL TESTING WITNESSED BY: MARTHA SULLIVAN, BRUCE BOUCK, AND ROBERT GREEN  
DATE: APRIL 7, 2022

### SOIL TEST DATA

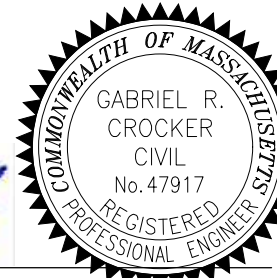
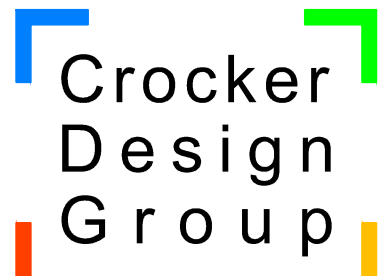
SOIL TESTING AND EVALUATION BY: TAYLOR CORSANO S.E. #14263  
DATE: JANUARY 3, 2023

<b>TP#1</b> EL. 65 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 5" FILL LOAM 64.6 5" TO 24" B LAYER LOAMY SAND 63 24" TO 120" C LAYER SAND 55 BOTTOM OF HOLE	<b>TP#2</b> EL. 83 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 6" A HORIZON LOAM 82.5 6" TO 36" B HORIZON LOAMY SAND 80 36" TO 108" C LAYER SAND 74 BOTTOM OF HOLE	<b>TP#3</b> EL. 94 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 5" A HORIZON LOAM 93.6 5" TO 12" B HORIZON LOAMY SAND 93 12" TO 60" C1 LAYER COARSE SAND 89 60" TO 114" C2 LAYER FINE SAND 84.5 BOTTOM OF HOLE	<b>TP#4</b> EL. 98 GROUNDWATER ENCOUNTERED AT ±126" 0" TO 3" A HORIZON LOAM 97.8 3" TO 42" B HORIZON LOAMY SAND 94.5 42" TO 114" C LAYER COARSE SAND 88.5 BOTTOM OF HOLE	<b>TP#5</b> EL. 103 REDOX ENCOUNTERED AT 72" 0" TO 10" A LAYER LOAM 102.2 10" TO 24" B LAYER LOAM SAND 101 24" TO 124" C LAYER FINE SAND 92.7 BOTTOM OF HOLE	<b>TP#6</b> EL. 102 GROUNDWATER ENCOUNTERED AT ±102" 0" TO 12" A LAYER FILL 101 12" TO 24" B LAYER LOAMY SAND 100 24" TO 102" C LAYER COARSE SAND 93.5 BOTTOM OF HOLE	<b>TP#7</b> EL. 99 GROUNDWATER ENCOUNTERED AT ±96" 0" TO 2" A LAYER LOAM 98.8 2" TO 18" B LAYER LOAMY SAND 97.5 18" TO 96" C1 LAYER LOAMY SAND 91 96" TO 97" C2 LAYER COARSE SAND 90.9 BOTTOM OF HOLE
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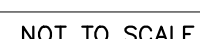
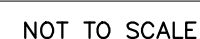
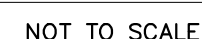
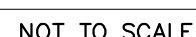
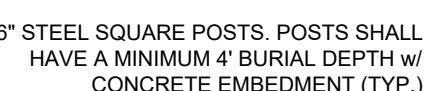
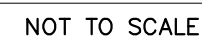
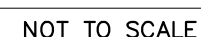
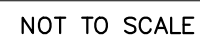
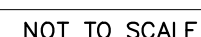
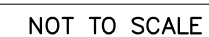
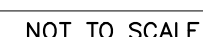
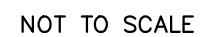
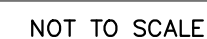
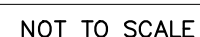
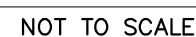
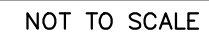
### SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: MATTHEW COLLINS S.E. #14611  
DATE: JULY 14, 2023

<b>TP#25</b> EL. 86.8 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 6" Ap LAYER SANDY LOAM 86.3 6" TO 20" Bw LAYER SANDY LOAM 85.1 20" TO 120" C LAYER FINE SAND 76.8 BOTTOM OF HOLE	<b>TP#26</b> EL. 85.7 REDOX ENCOUNTERED AT 102" 0" TO 3" Ap LAYER SANDY LOAM 85.4 3" TO 11" Bw LAYER SANDY LOAM 84.7 11" TO 126" C LAYER SAND 75.1 BOTTOM OF HOLE	<b>TP#27</b> EL. 85.3 GROUNDWATER ENCOUNTERED AT 132" 0" TO 3" Ap LAYER SANDY LOAM 85.0 3" TO 12" Bw LAYER SANDY LOAM 84.2 12" TO 132" C LAYER SAND 74.2 BOTTOM OF HOLE	<b>TP#38-39</b> EL. 108.5 REDOX ENCOUNTERED AT 102" 0" TO 2" O LAYER 100.0 2" TO 6" Ap LAYER SANDY LOAM 99.7 6" TO 22" Bw LAYER SANDY LOAM 98.4 22" TO 136" C LAYER LOAMY SAND 88.9 BOTTOM OF HOLE	<b>TP#38-39</b> EL. 108.5 REDOX ENCOUNTERED AT 102" 0" TO 2" O LAYER 100.0 2" TO 6" Ap LAYER SANDY LOAM 99.7 6" TO 22" Bw LAYER SANDY LOAM 98.4 22" TO 136" C LAYER LOAMY SAND 88.9 BOTTOM OF HOLE	<b>TP#44</b> EL. 100.8 REDOX ENCOUNTERED AT 90" 0" TO 5" Ap LAYER SANDY LOAM 100.4 5" TO 21" Bw LAYER SANDY LOAM 99.1 21" TO 31" FILL 98.3 31" TO 132" C LAYER FINE SAND 89.9 BOTTOM OF HOLE	<b>TP#45</b> EL. 97.4 REDOX ENCOUNTERED AT 124" 0" TO 3" Ap LAYER SANDY LOAM 97.1 3" TO 35" C1 LAYER SAND 94.4 35" TO 144" C2 LAYER FINE SAND 85.3 BOTTOM OF HOLE	<b>TP#46</b> EL. 99.4 REDOX ENCOUNTERED AT 126" 0" TO 10" Ap LAYER SANDY LOAM 98.6 10" TO 96" C1 LAYER SAND 91.4 96" TO 120" C2 LAYER LOAMY SAND 89.4 120" TO 144" C3 LAYER SAND 87.4 BOTTOM OF HOLE	<b>TP#47</b> EL. 92.6 REDOX ENCOUNTERED AT 90" 0" TO 7" Ap LAYER SANDY LOAM 92.0 7" TO 36" Bw LAYER SANDY LOAM 89.6 36" TO 58" C1 LAYER LOAMY SAND 87.8 58" TO 108" C2 LAYER SAND 83.6 BOTTOM OF HOLE	<b>TP#48</b> EL. 96.7 REDOX ENCOUNTERED AT 54" 0" TO 7" Ap LAYER SANDY LOAM 96.1 7" TO 36" Bw LAYER SANDY LOAM 93.7 36" TO 54" C1 LAYER LOAMY SAND 92.2 54" TO 108" C2 LAYER SAND 87.7 BOTTOM OF HOLE	<b>TP#49</b> EL. 66.0 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 24" FILL 64.0 24" TO 28" Bw LAYER SANDY LOAM 63.7 24" TO 32" Bw LAYER SANDY LOAM 63.0 32" TO 120" C LAYER SAND 55.7 BOTTOM OF HOLE	<b>TP#50</b> EL. 66.4 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 5" Ap LAYER SANDY LOAM 66.0 5" TO 12" Bw LAYER SANDY LOAM 65.4 12" TO 18" FILL 64.9 18" TO 126" C LAYER SAND 55.9 BOTTOM OF HOLE	<b>TP#51</b> EL. 58.9 NO REDOX/GROUNDWATER ENCOUNTERED 0" TO 4" Ap LAYER SANDY LOAM 58.6 4" TO 12" Bw LAYER SANDY LOAM 57.6 16" TO 24" FILL 56.9 24" TO 120" C LAYER SAND 48.9 BOTTOM OF HOLE
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Date	Description	No.
Revisions		
		
<b>GABRIEL R. CROCKER</b> PROFESSIONAL ENGINEER, MA REGISTRATION #47917		
		
Project: <b>AGE QUALIFIED VILLAGE PEMBROKE COUNTRY CLUB</b> DWELLEY STREET, HAZELWOOD DRIVE & WEST ELM STREET PEMBROKE, MA		
Prepared for: <b>WEATHERVANE AT PEMBROKE COUNTRY CLUB, LLC</b> 190 OLD DERBY STREET, SUITE 311 HINGHAM, MA 02043		
Drawing Title: <b>TEST PIT NOTES</b>		
Project No. 100-064	Drawing No.	
Date 08 / 06 / 2023	<div style="font-size: 2em; font-weight: bold;">C-7.2</div>	
Scale		
Drawn By ASZ, JPM, RML		
Approved By TC		





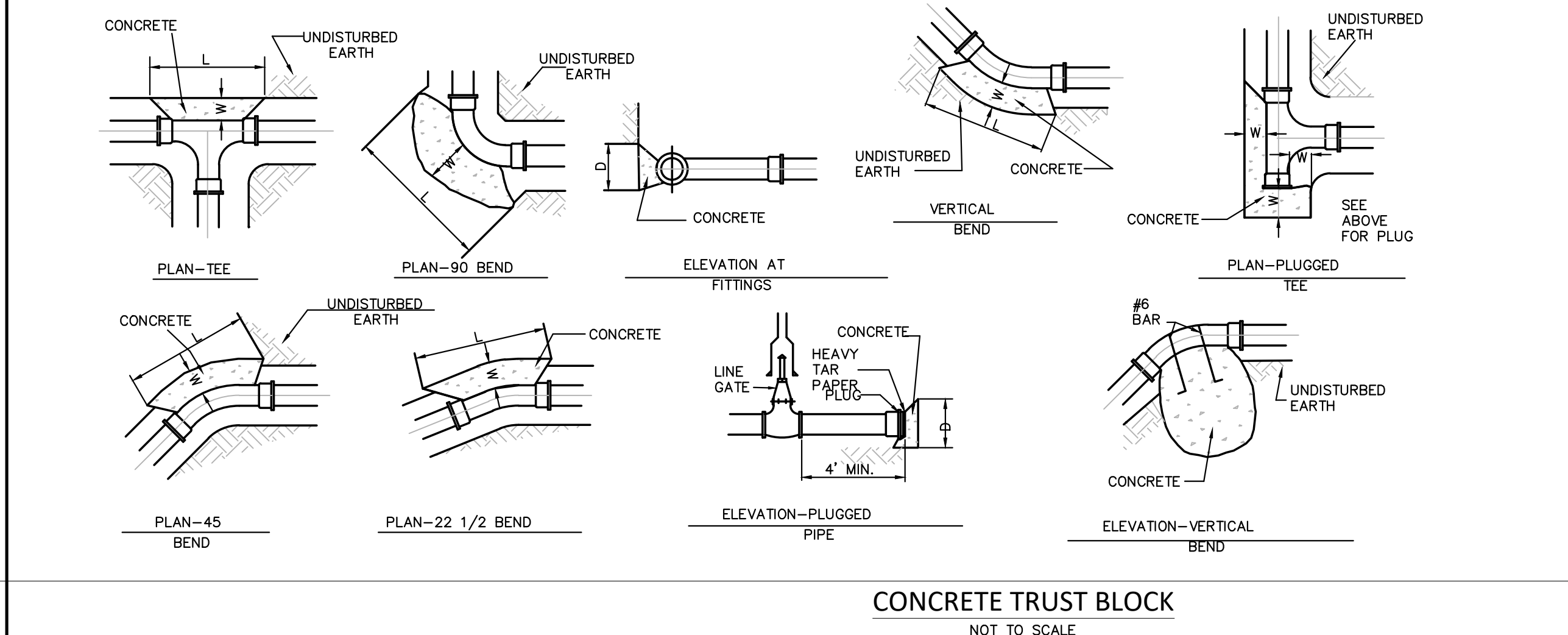
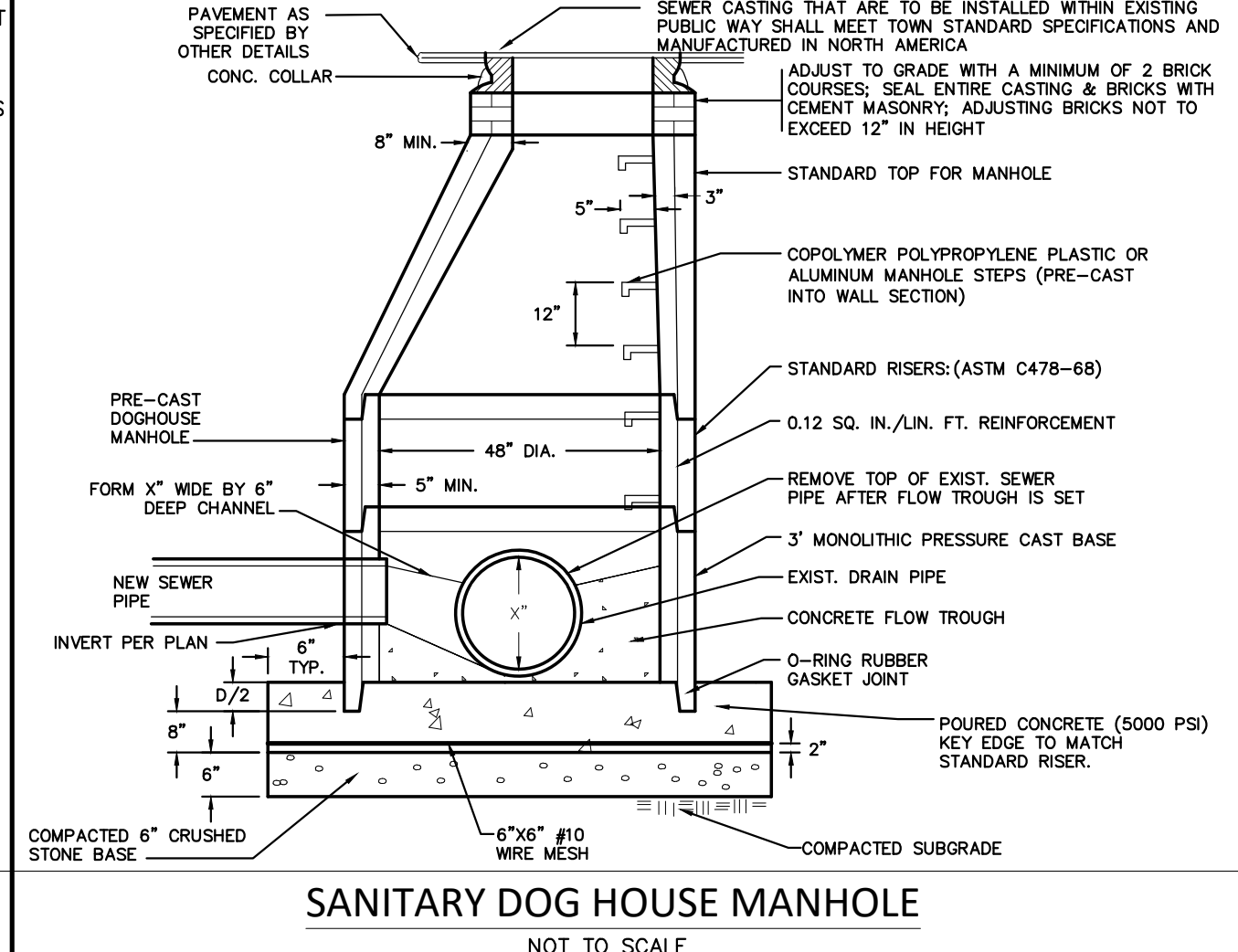
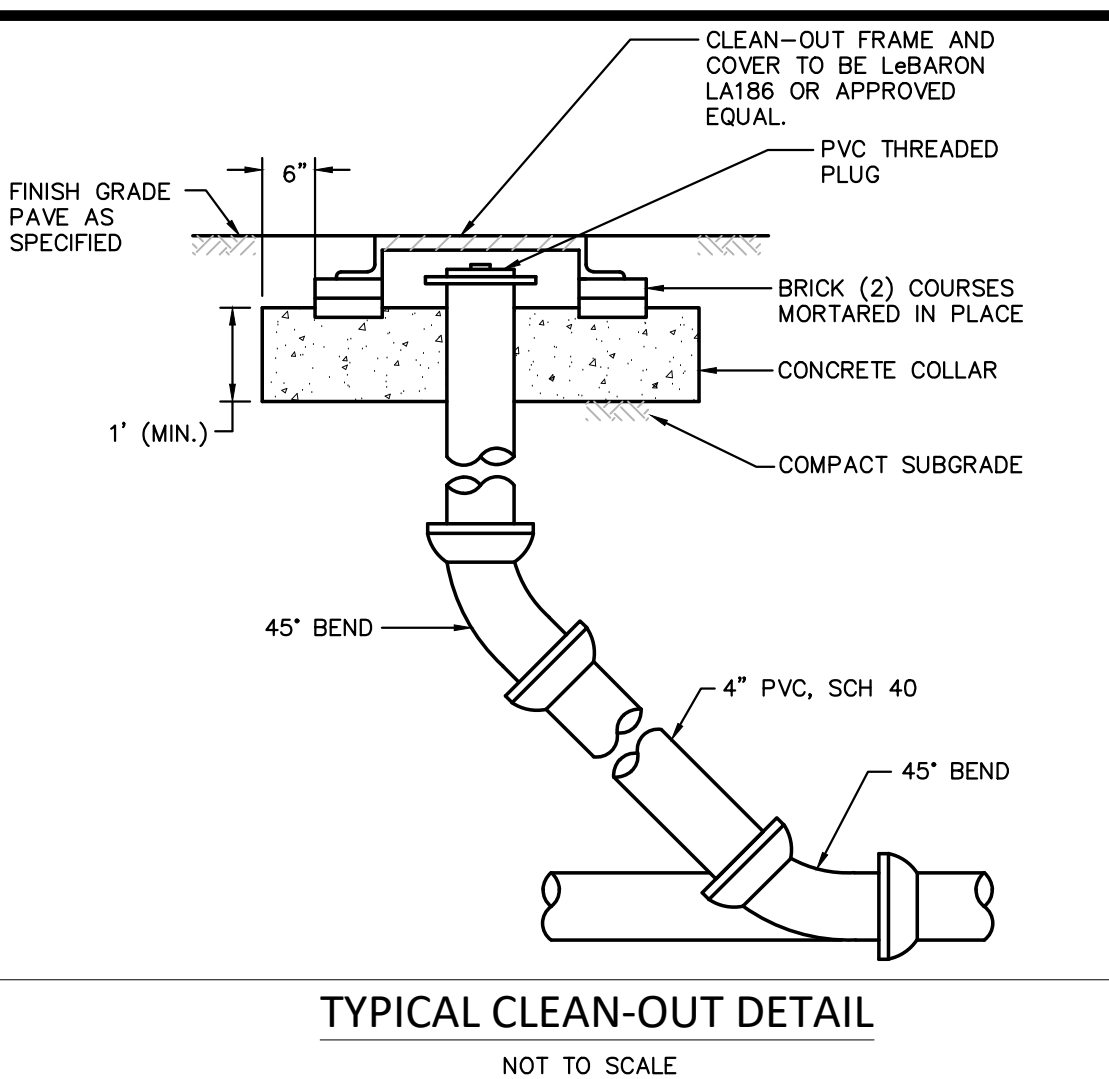
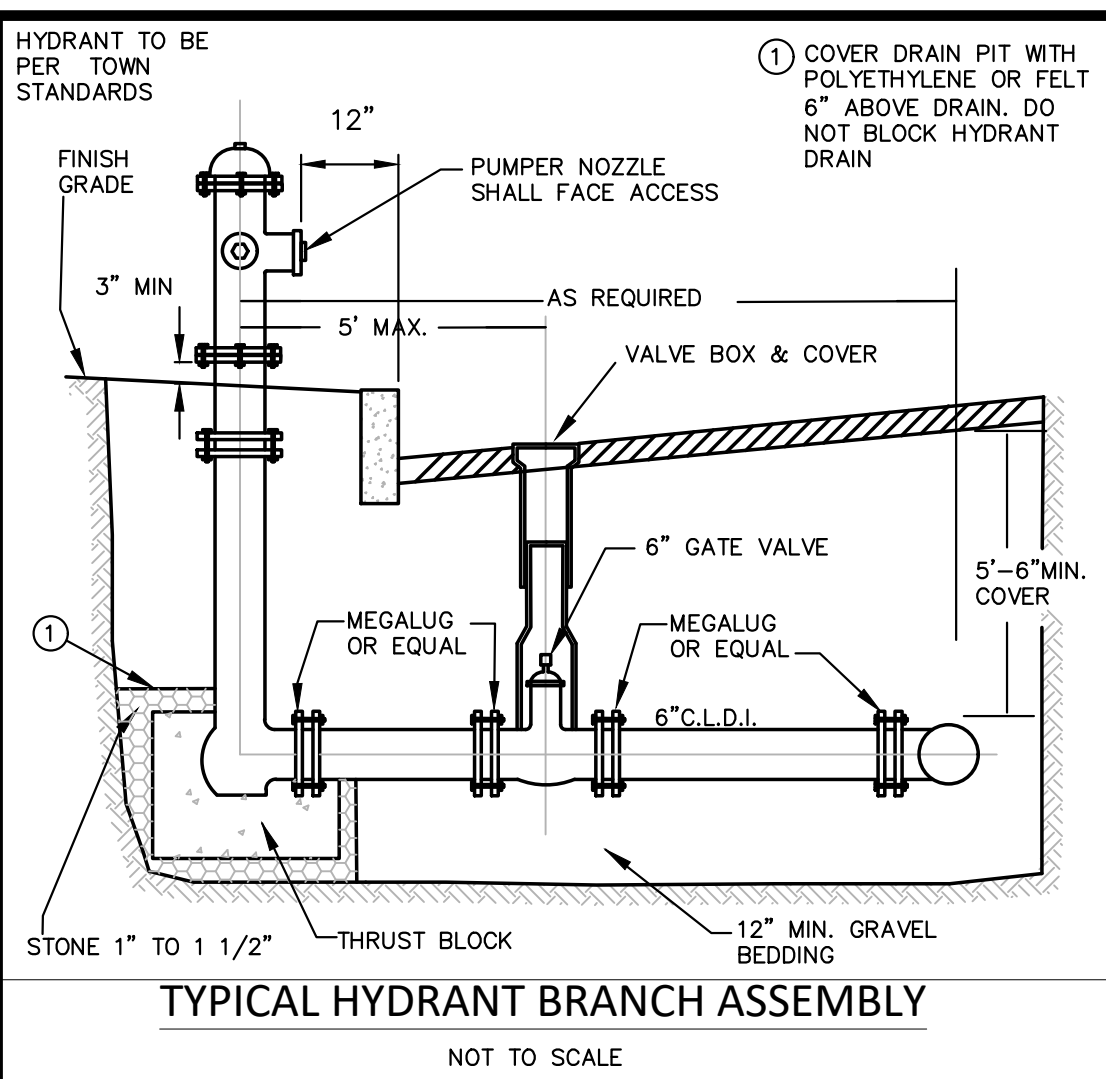
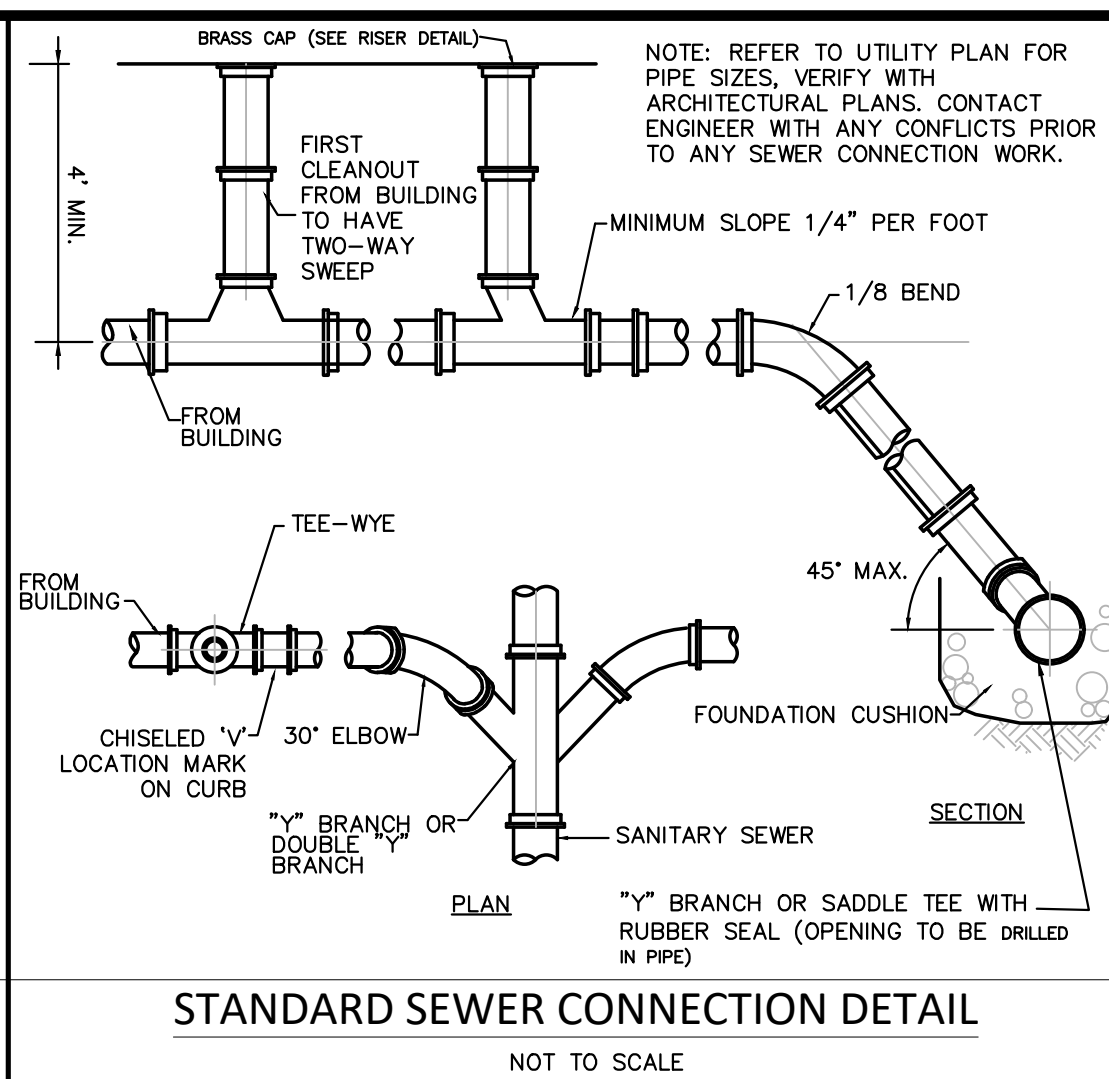
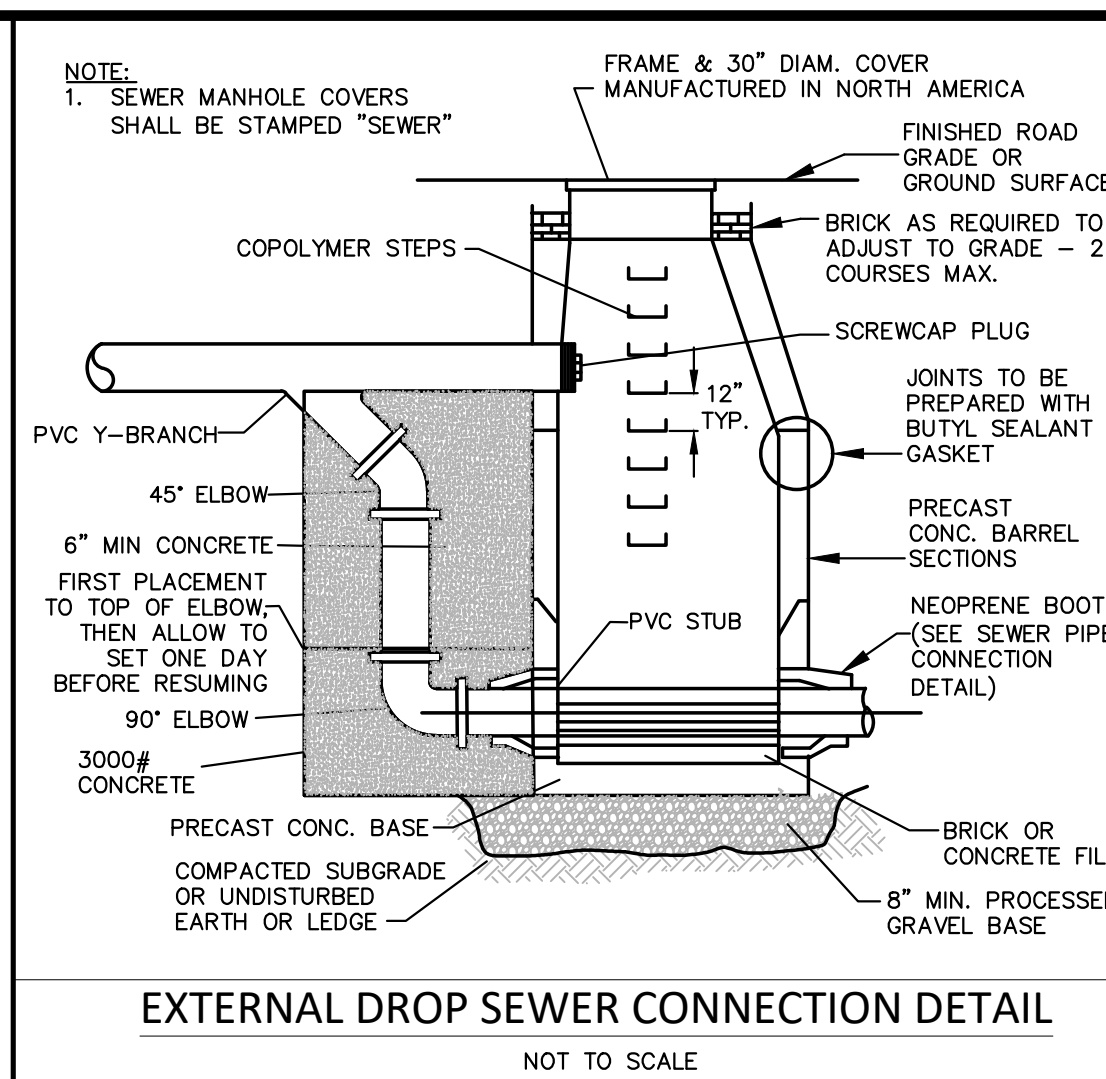
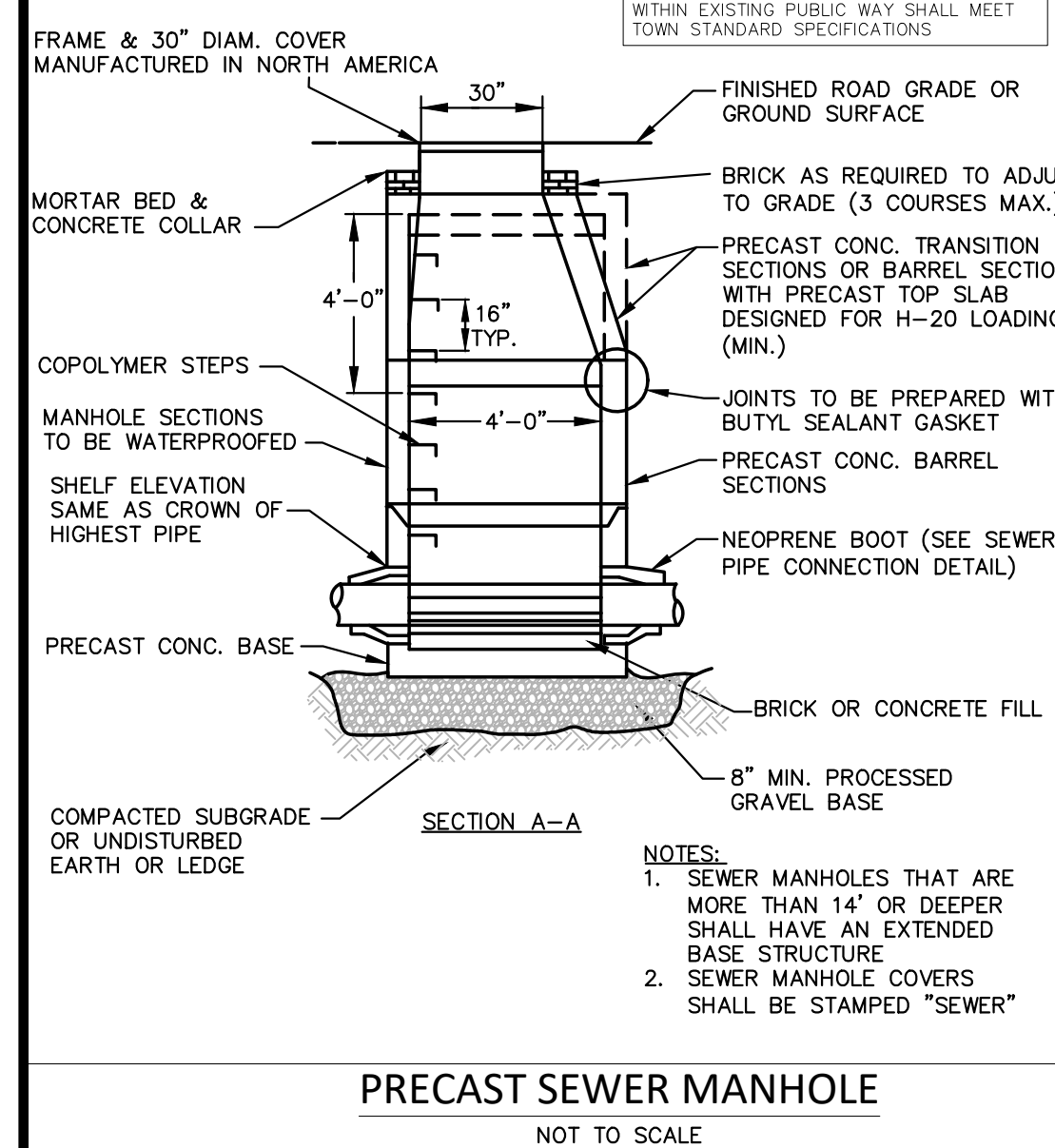
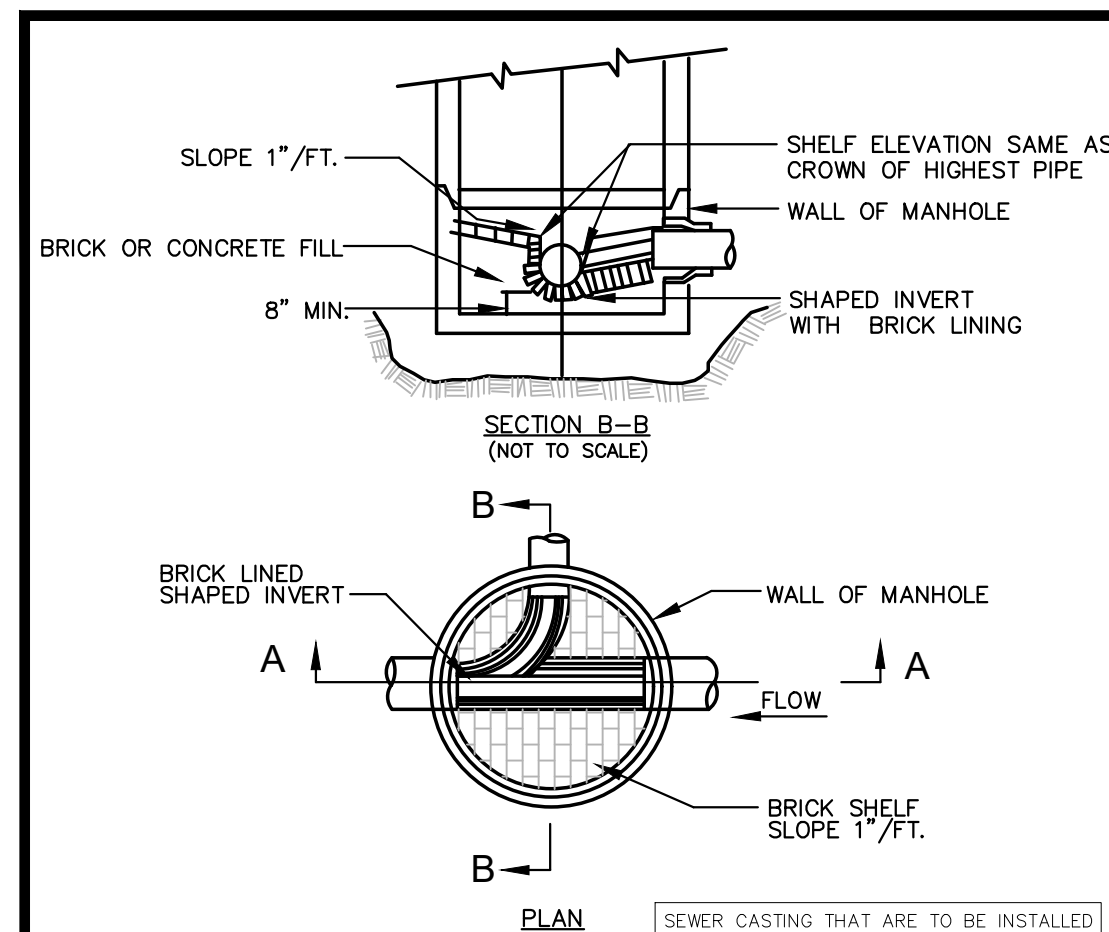
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## C-8.1









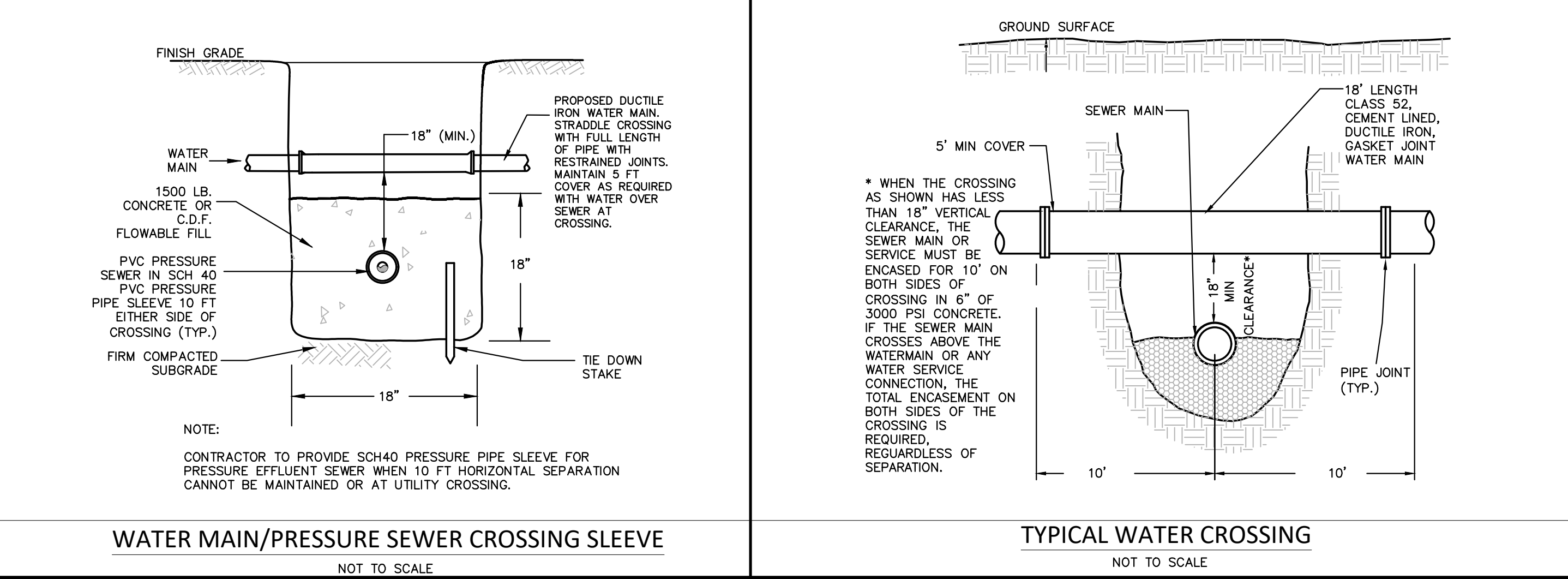
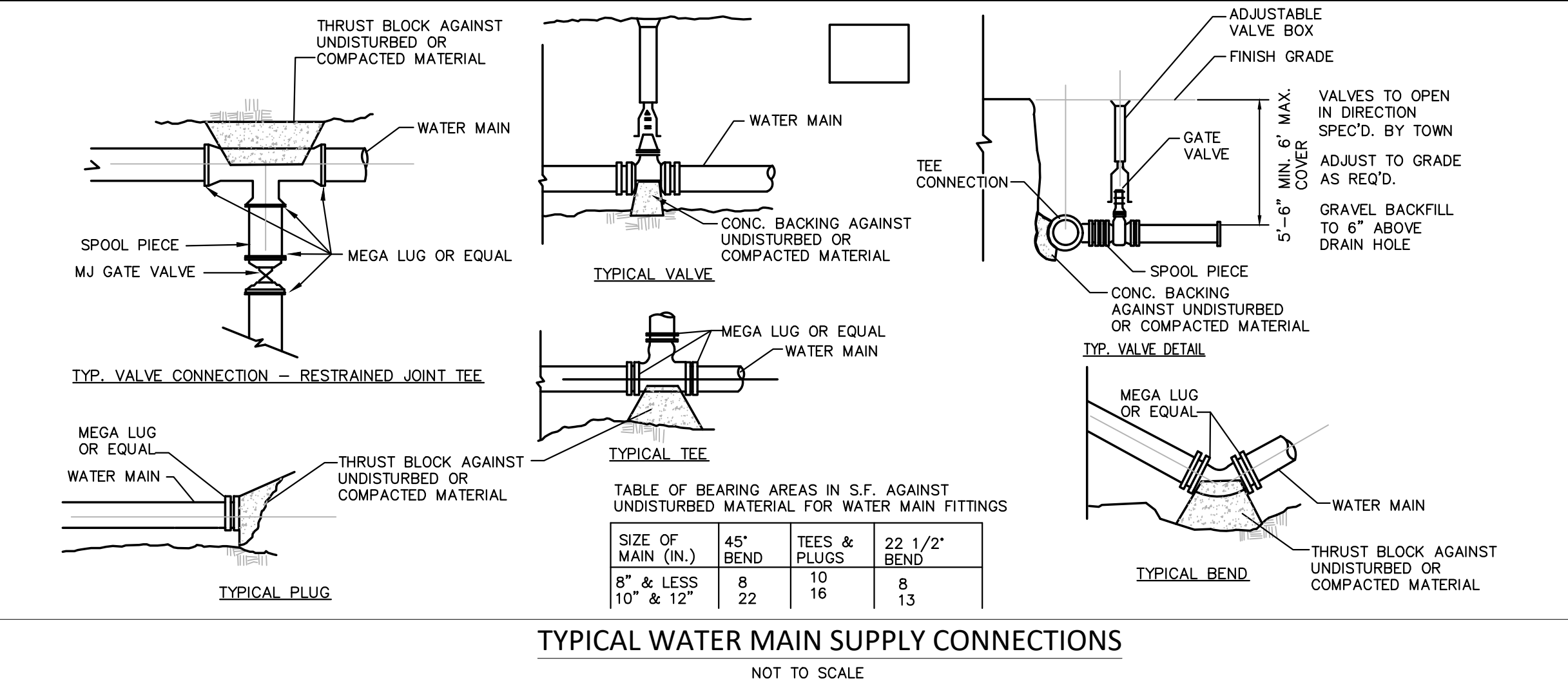
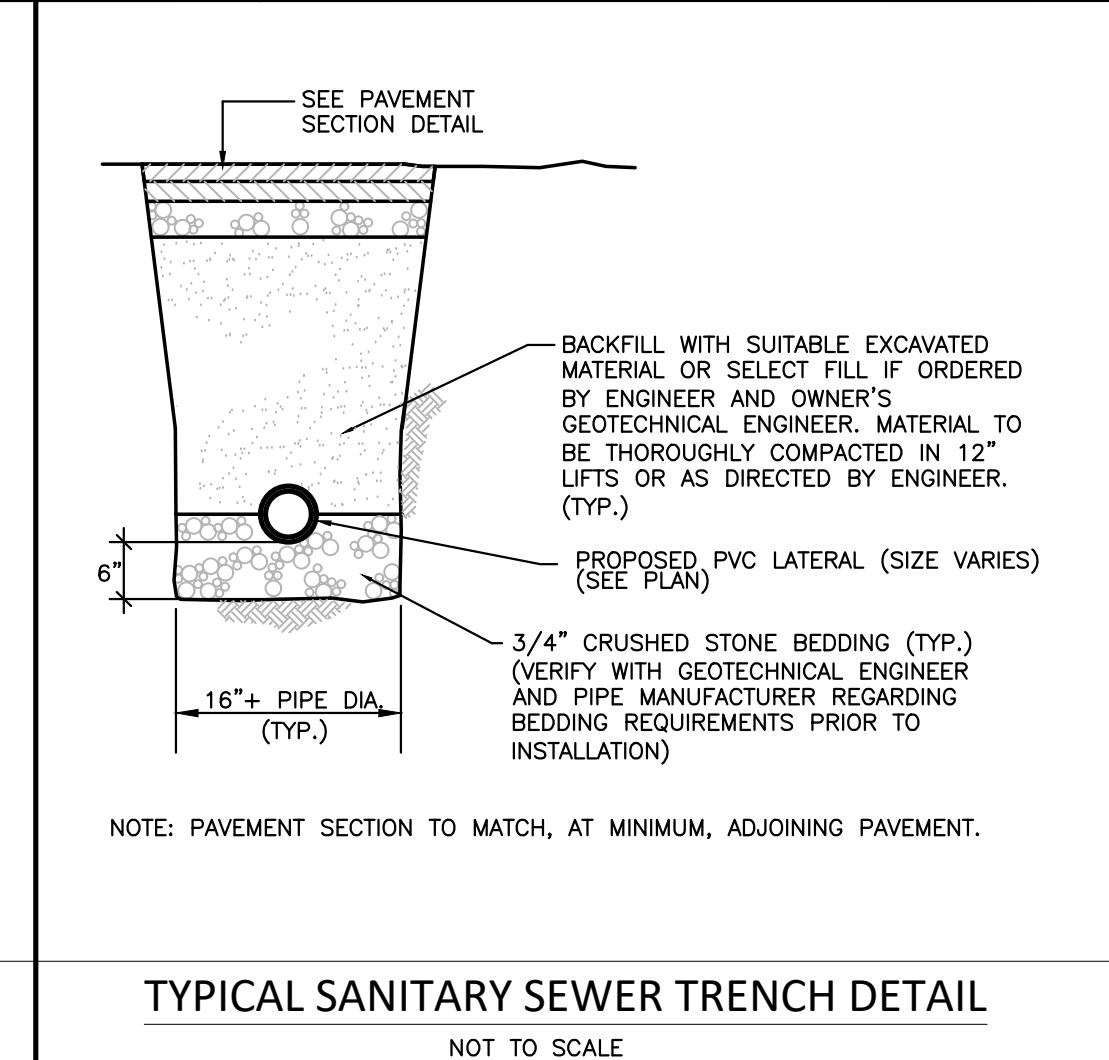
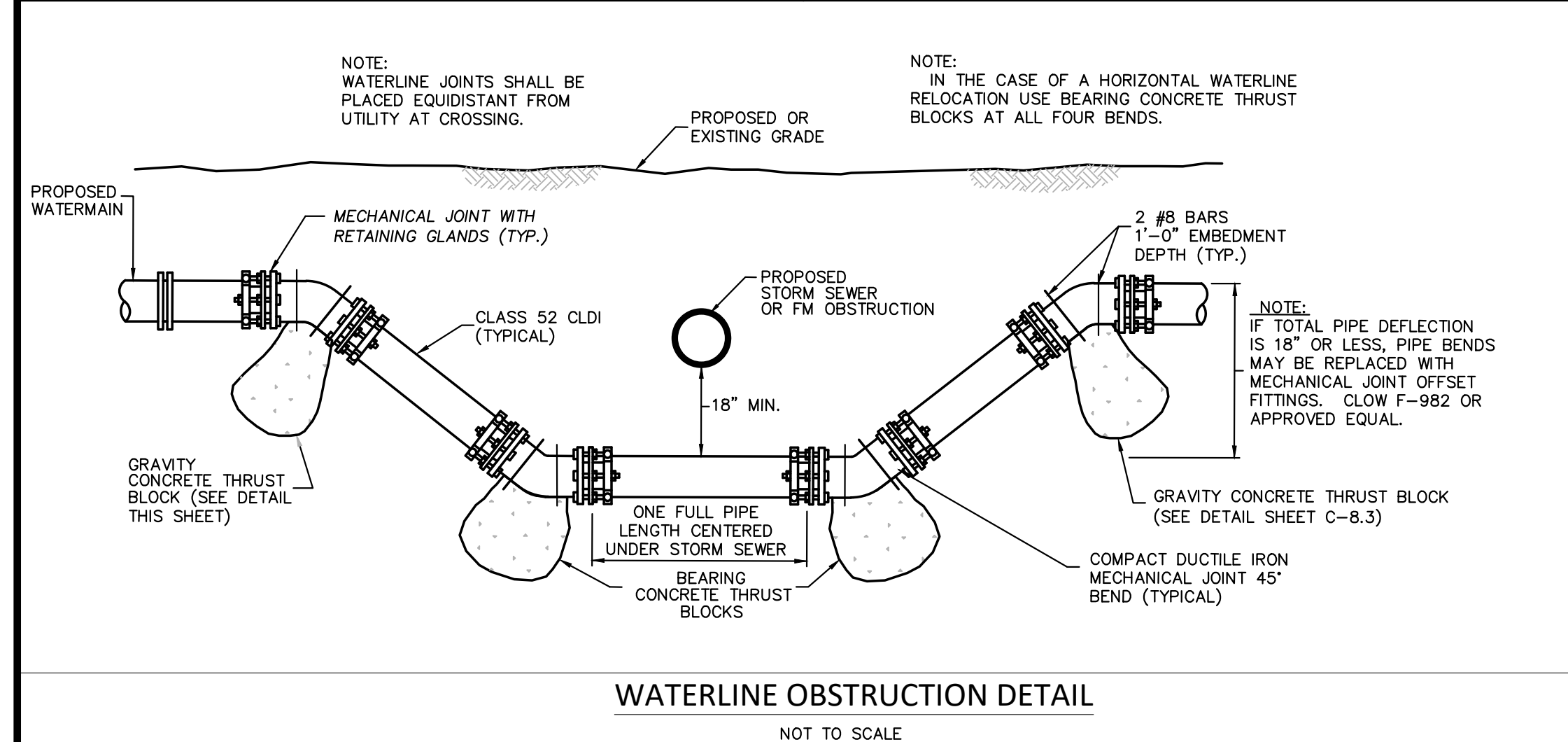
THRUST BLOCK SCHEDULE											
PIPE SIZE	TEE			22 1/2		45			90		W
	D	L	D	D	L	D	L	D	D		
6"	18"	15"	15"	12"	15"	12"	15"	15"	15"	21"	
8"	2"	18"	18"	12"	18"	12"	2"	18"	2"	21"	
12"	3"	2"	2"	12"	2"	12"	3"	2"	2"	28"	
16"	4"	2.5"	2"	12"	2.33"	15"	4"	2.5"	3"	31"	
20"	5.25"	3"	2"	18"	3"	2"	5.25"	3"	3"	33"	
24"	7.5"	3"	3"	18"	4"	2.5"	7.5"	3"	3"		

BASIS:  
2,000 LB/SQ.FT. SOIL RESISTANCE 250  
PSI WATER PRESSURE CORRECTION  
FACTORS FOR OTHER SOILS:

SOFT CLAY	4
SAND	2
SAND & GRAVEL	1.33
SHALE	0.4

NOTE:

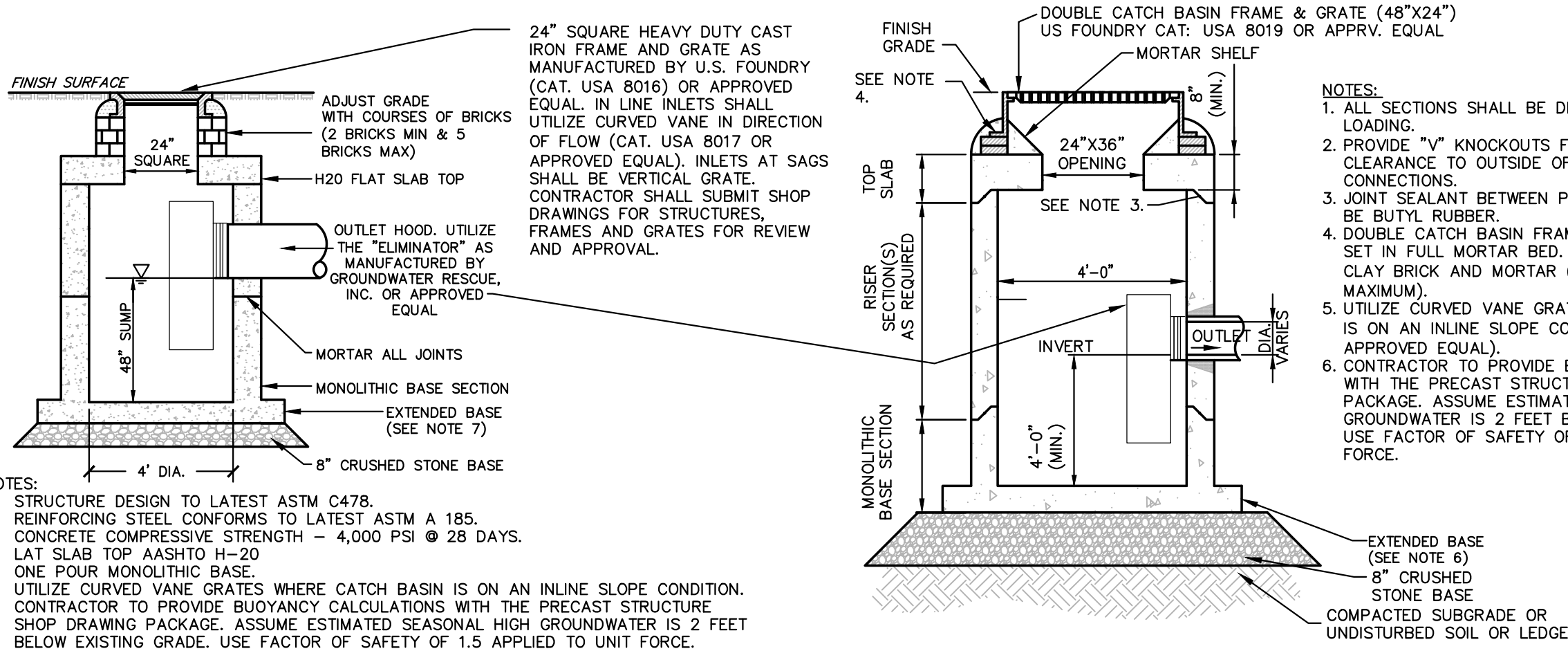
1. IF SOFT MATERIALS ARE ENCOUNTERED, THE  
THRUST BLOCKS SIZES SHALL BE ADJUSTED  
ACCORDINGLY.
2. CONCRETE TO BE 3000 PSI.









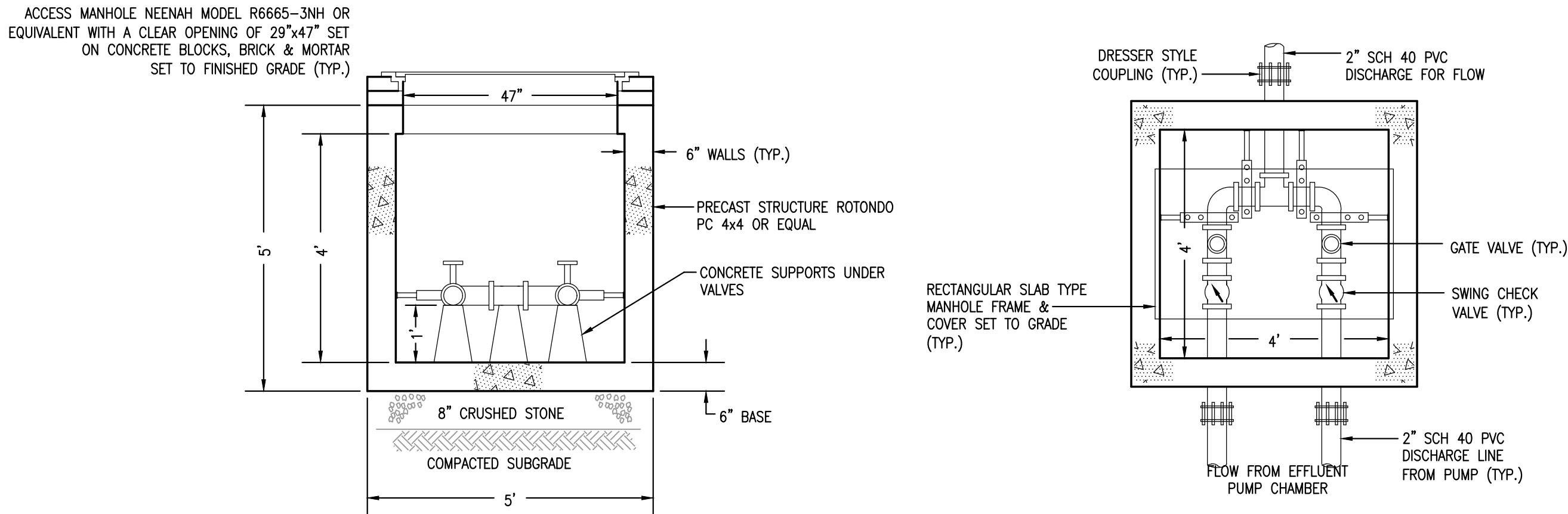


SINGLE GRATE CATCH BASIN

NOT TO SCALE

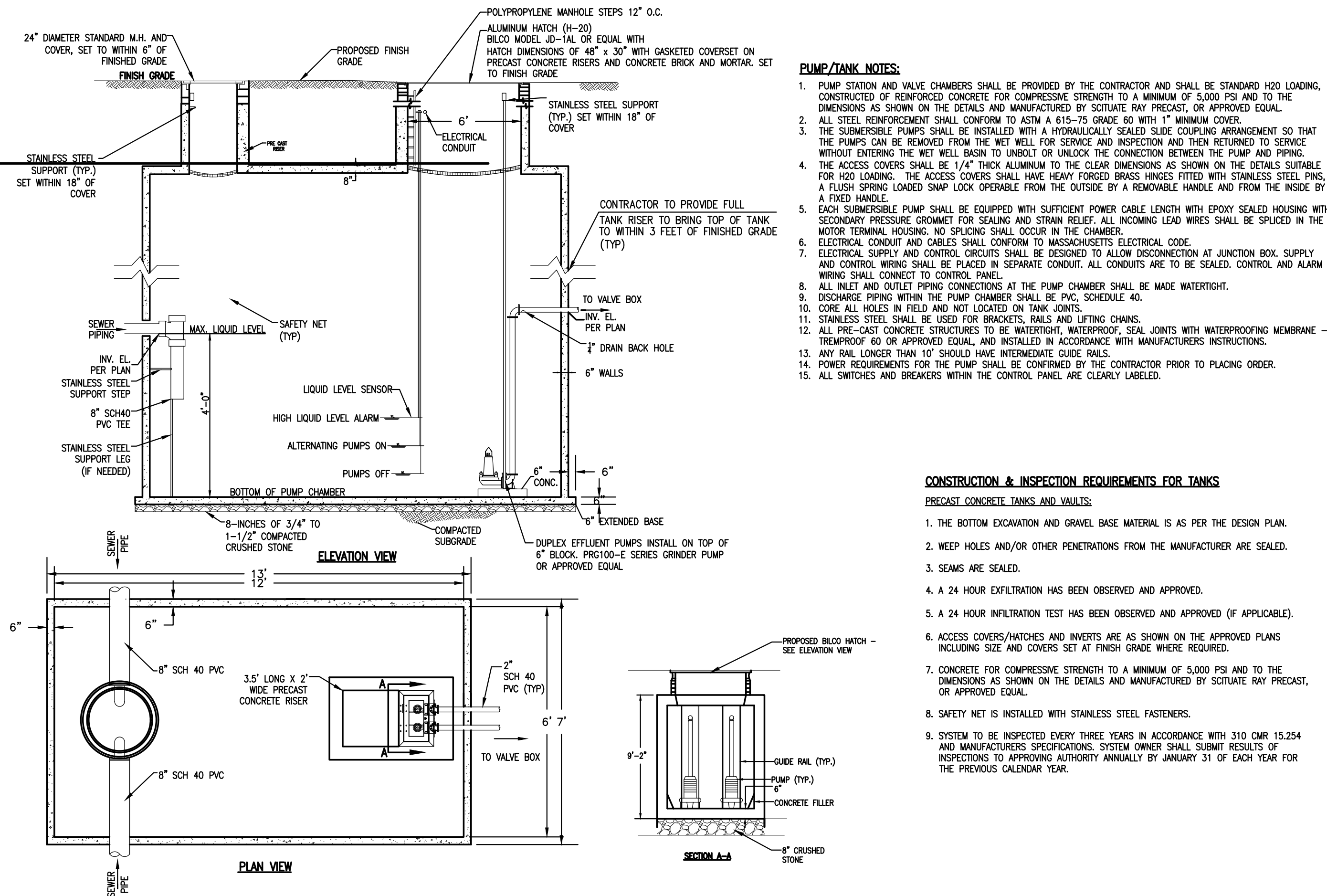
DOUBLE GRATE CATCH BASIN

NOT TO SCALE



VALVE BOX DETAIL

NOT TO SCALE



SEWER PUMP LIFT STATION

NOT TO SCALE

Date	Description	No.
	Revisions	

**GABRIEL R. CROCKER**  
PROFESSIONAL ENGINEER, MA REGISTRATION #47917

*Gabe R. Crocker*  
8-8-2023

**COMMONWEALTH OF MASSACHUSETTS**  
GABRIEL R. CROCKER  
CIVIL  
No. 47917  
REGISTERED PROFESSIONAL ENGINEER

**Crocker Design Group**

2 SHARP STREET, UNIT A  
HINGHAM, MA 02043  
P: 781-919-0808

Project

**AGE QUALIFIED VILLAGE  
PEMBROKE COUNTRY CLUB**

DWELLEY STREET, HAZELWOOD DRIVE &  
WEST ELM STREET  
PEMBROKE, MA

Prepared for

**WEATHERVANE AT PEMBROKE  
COUNTRY CLUB, LLC**

190 OLD DERBY STREET, SUITE 311  
HINGHAM, MA 02043

Drawing Title

**DETAIL SHEET**

Project No.	100-064	Drawing No.	<b>C-8.5</b>
Date	08 / 08 / 2023		
Scale			
Drawn By	ASZ, JPM, RML		
Approved By	TC		