

NOTE:

PLACE WATER METER PITS A MINIMUM OF 5' APART FOR CONSTRUCTABILITY BETWEEN METERS.

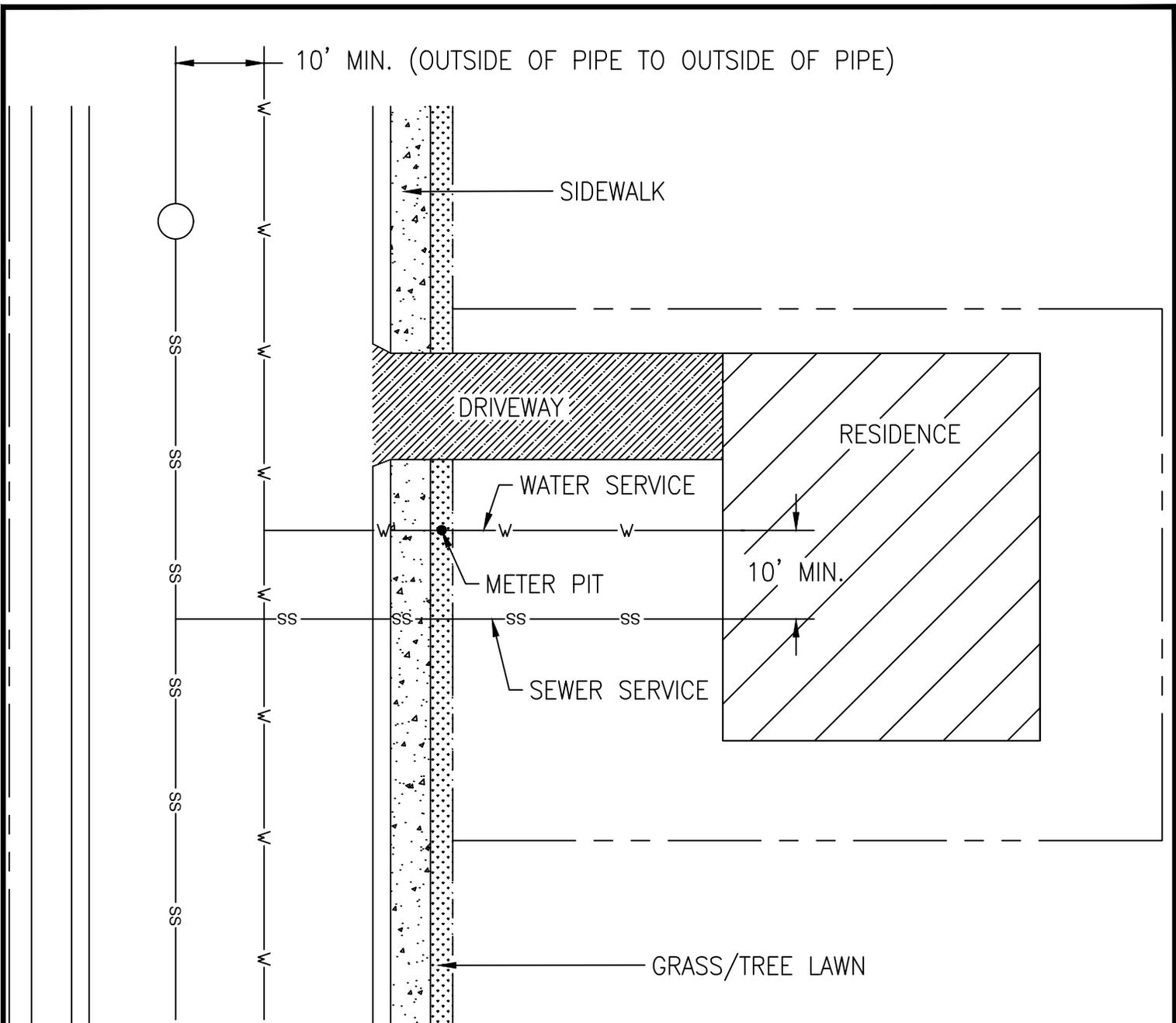


CUL-DE-SAC SERVICES

DATE 8/6/2024
REVISED BY AS

DRAWING NUMBER

600-1



NOTES:

1. SERVICE LOCATIONS MAY VARY TO MEET VARIOUS HOUSE CONFIGURATIONS.
2. WATER SERVICE SHALL BE PLACED ON THE DOWN HILL SIDE OF SANITARY SEWER SERVICE AND WITH 10' MINIMUM SEPARATION.
3. NO MORE THAN TWO 1/8 BENDS (90° TOTAL) ARE RECOMMENDED IN ANY SANITARY SEWER SERVICE.
4. THERE SHALL BE AT LEAST 5' SEPARATION BETWEEN WATER METER PITS.
5. SERVICES SHALL ENTER LOTS AT A PERPENDICULAR ANGLE FROM THE MAINS EXCEPT IN CUL-DE-SACS.
6. PLACE "V" ON THE CURB FACE TO MARK WATER SERVICE LOCATIONS AND PLACE A "X" ON THE CURB FACE TO MARK SANITARY SEWER SERVICE LOCATIONS.
7. IF SERVICES MUST BE RELOCATED, THEN THE OLD SERVICE MUST BE ABANDONED TO THE MAIN AND THE MAIN RETAPPED.



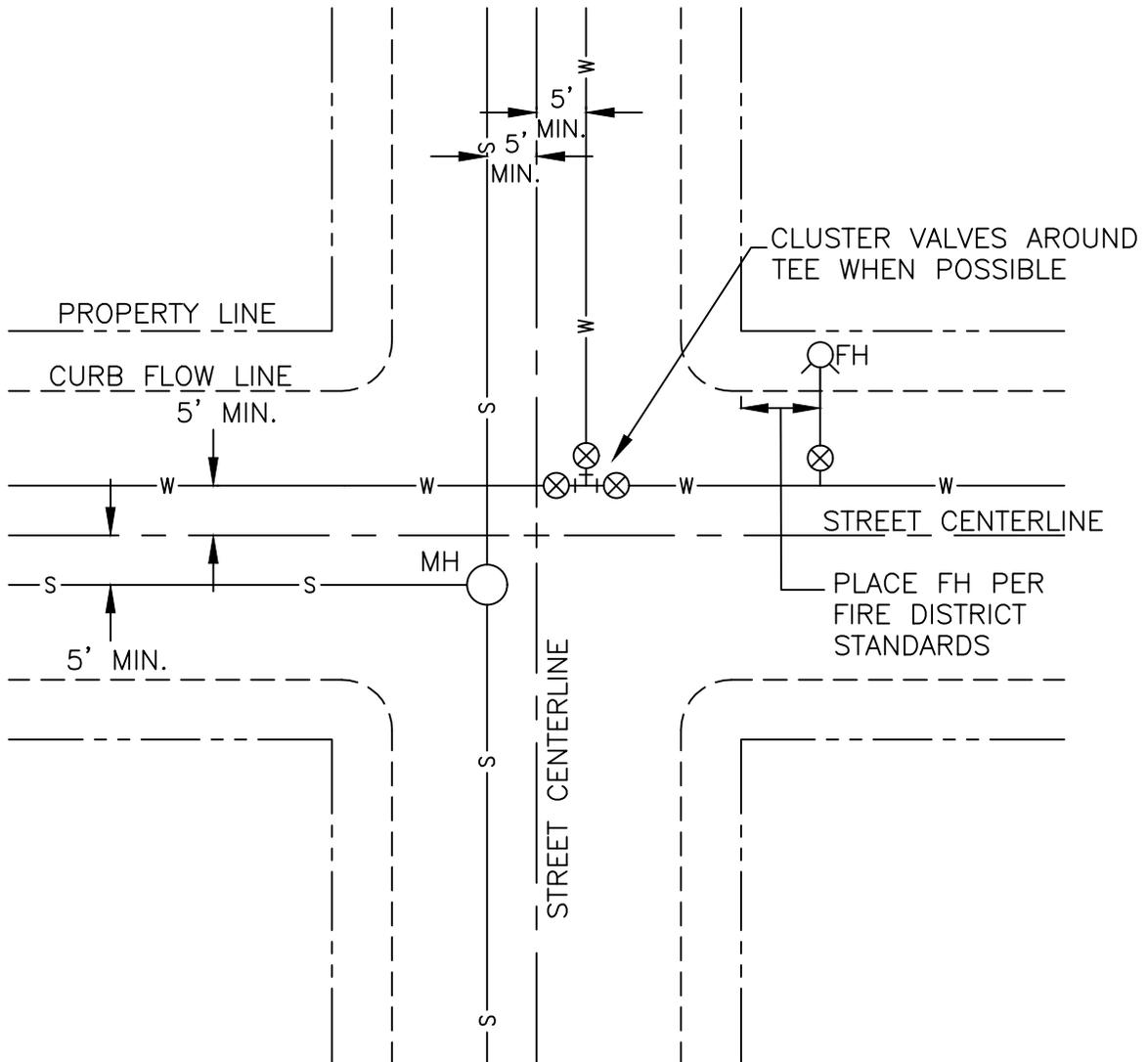
BrightonSM

TYPICAL HOUSE
SERVICE

DATE 7/16/2024
REVISED BY JJ

DRAWING
NUMBER

600-2

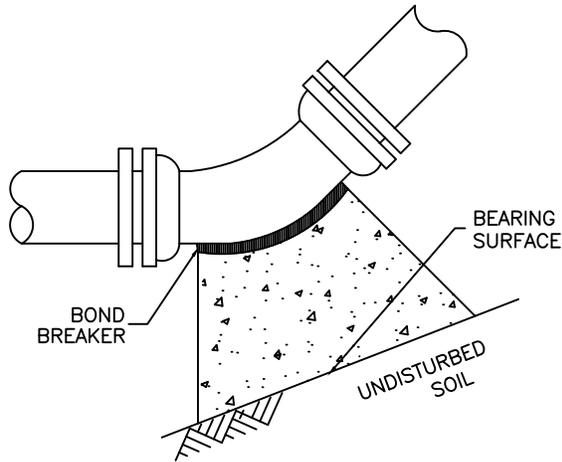


NOTE:

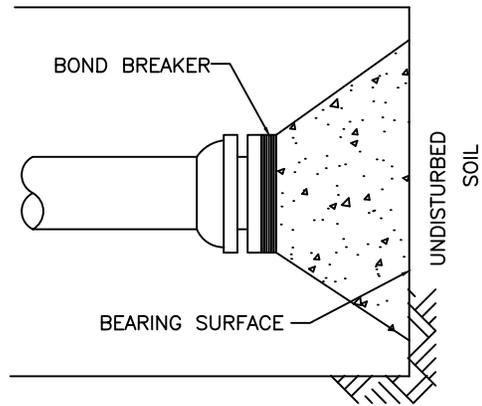
WATER AND SANITARY SEWER MUST BE SEPARATED BY 10' MINIMUM DISTANCE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

N.T.S.

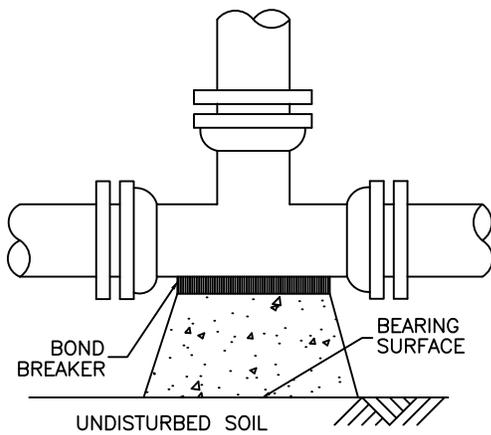
 Brighton SM RESIDENTIAL UTILITIES LOCATIONS	DATE 7/26/2024 REVISED BY JJ
	DRAWING NUMBER 600-3



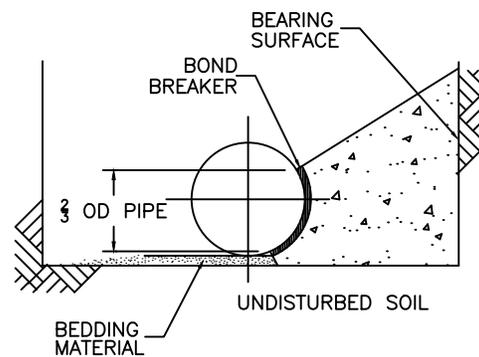
11¼°, 22½°, 45° AND 90° BENDS



DEAD END



TEE



TYPICAL CROSS SECTION

MINIMUM BEARING SURFACE AREA
(IN SQUARE FEET)

NOTES:

1. BEARING SURFACES SHOWN IN CHART ARE MINIMUM.
2. BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER.
 - 4", 6", 8", AND 12" WATER HAMMER = 110 PSI
 - 16", 20", AND 24" WATER HAMMER = 70 PSI
3. SEE SECTION 600 OF THE STANDARDS AND SPECIFICATIONS.
4. BASED ON 3000 PSF SOIL BEARING CAPACITY.
5. NA = NOT APPLICABLE

SIZE OF PIPE	BENDS			TEES & DEAD ENDS
	22½°	45°	90°	
6"	2.0	2.0	3.6	2.5
8"	2.0	3.4	6.2	4.4
10"	2.8	5.5	10.2	7.2
12"	4.0	7.9	14.5	10.3
14"	5.4	10.7	19.6	13.9
16"	7.0	13.8	25.4	18.0

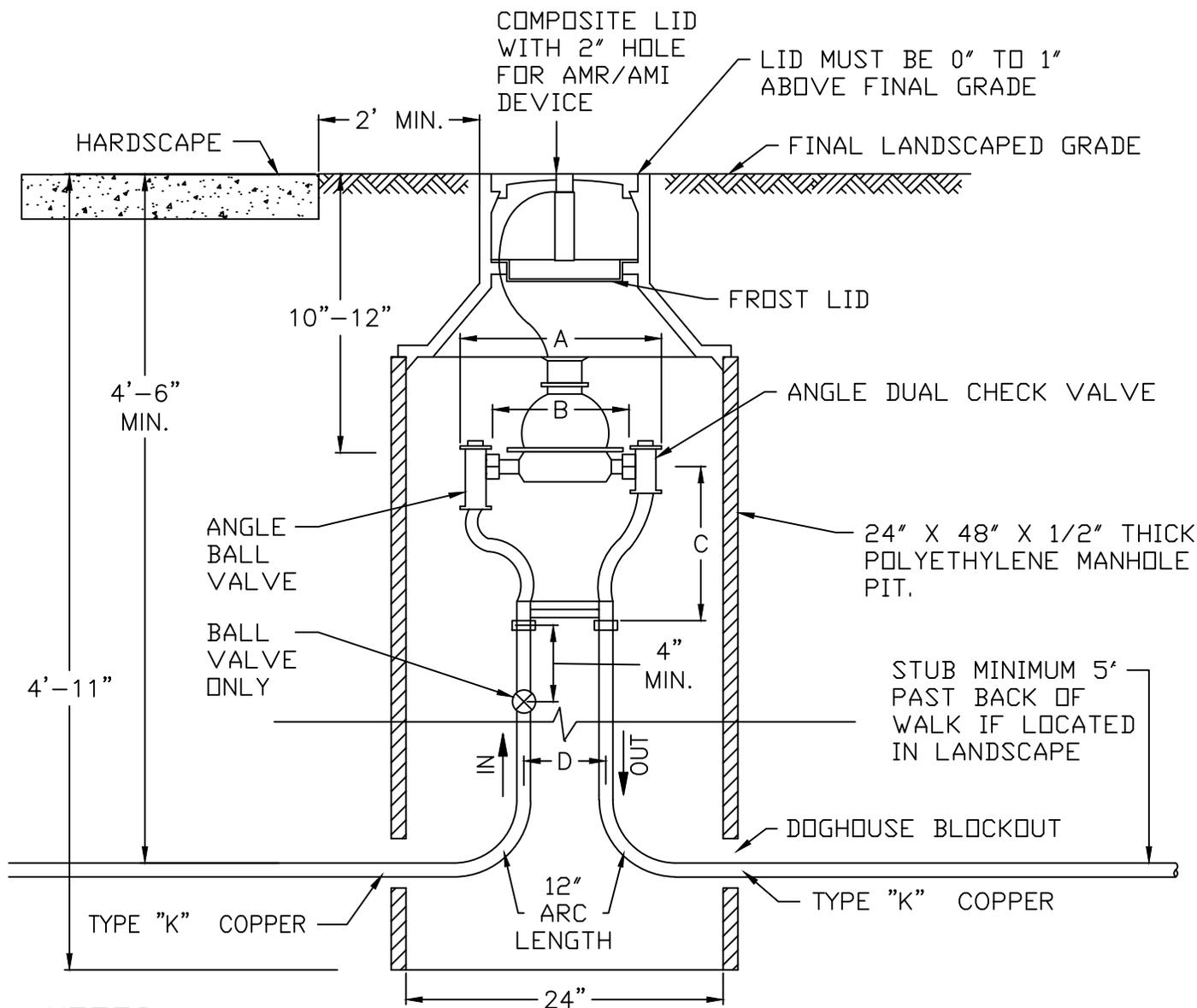


THRUST BLOCK

DATE 10/11/2022
REVISED BY MA

DRAWING
NUMBER

600-4



NOTES:

1. PLACE METERS WITH A MINIMUM SEPARATION OF 4'.
2. MASONRY BASE FOR STABILITY IS OPTIONAL.
3. NOT FOR INSTALLATION IN DRIVEWAYS, SIDEWALKS, OR PARKING AREAS.
4. YOKE MUST HAVE DUAL CHECK VALVE.
5. METER PIT LID MUST BE 2' - 5' OFF BACK OF SIDEWALK OR CURB AND A MINIMUM OF 2' FROM ANY STRUCTURE.
6. SERVICE LINE MUST BE ONE CONTINUOUS PIECE FROM MAIN TO BALL VALVE IN METER PIT.
7. BOTH INLET AND OUTLET SERVICE LINE 90 DEGREE BENDS, OR PIGTAILS, SHALL BE FULLY VISIBLE WITH THE COMPLETE BEND NOT LESS THAN 12 INCHES.
8. THE SERVICE LINES MUST ENTER AND EXIT THE PIT HORIZONTALLY THROUGH THE PIT BLOCKOUTS.
9. METERS MUST BE LOCATED A MINIMUM OF 5' FROM ADJACENT PROPERTY LINE.

METER SIZE	A	B	C	D
3/4"	14-1/4"	9"	9"±	5"
1"	17-1/4"	10-3/4"	10"±	6"

N.T.S.

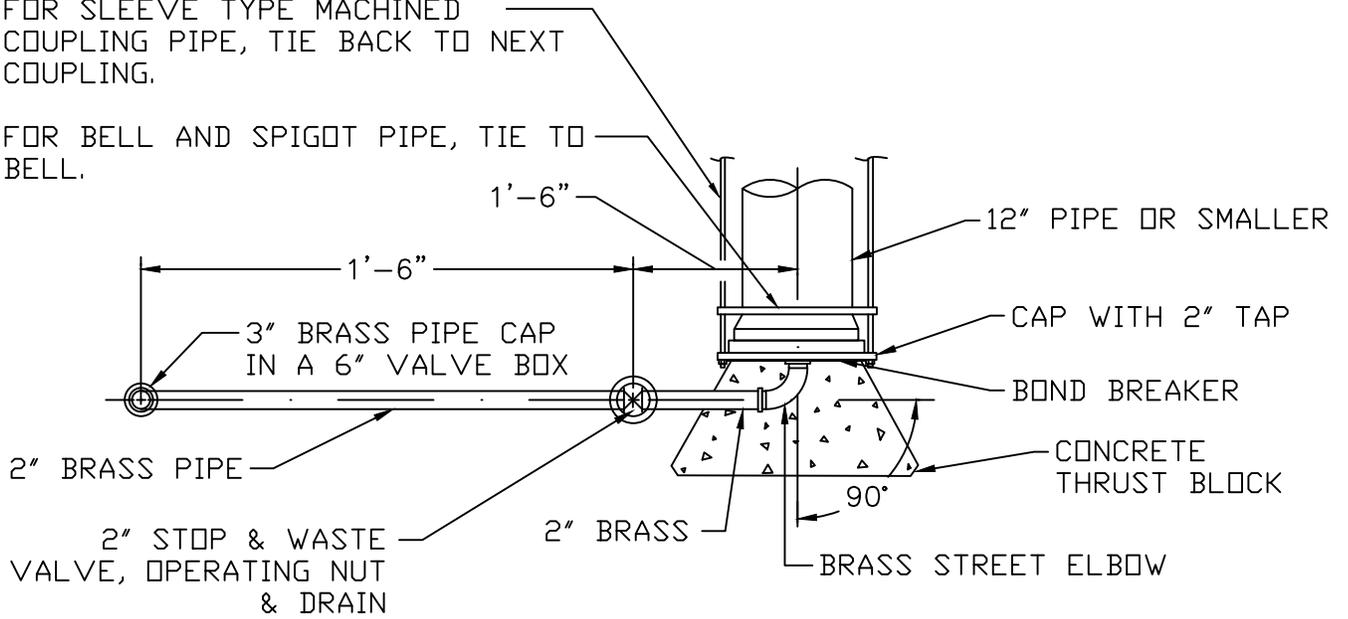
 Brighton™ METERS - 3/4" & 1"	DATE 6/25/2025 REVISED BY JJ
	DRAWING NUMBER 600-5

NOTES:

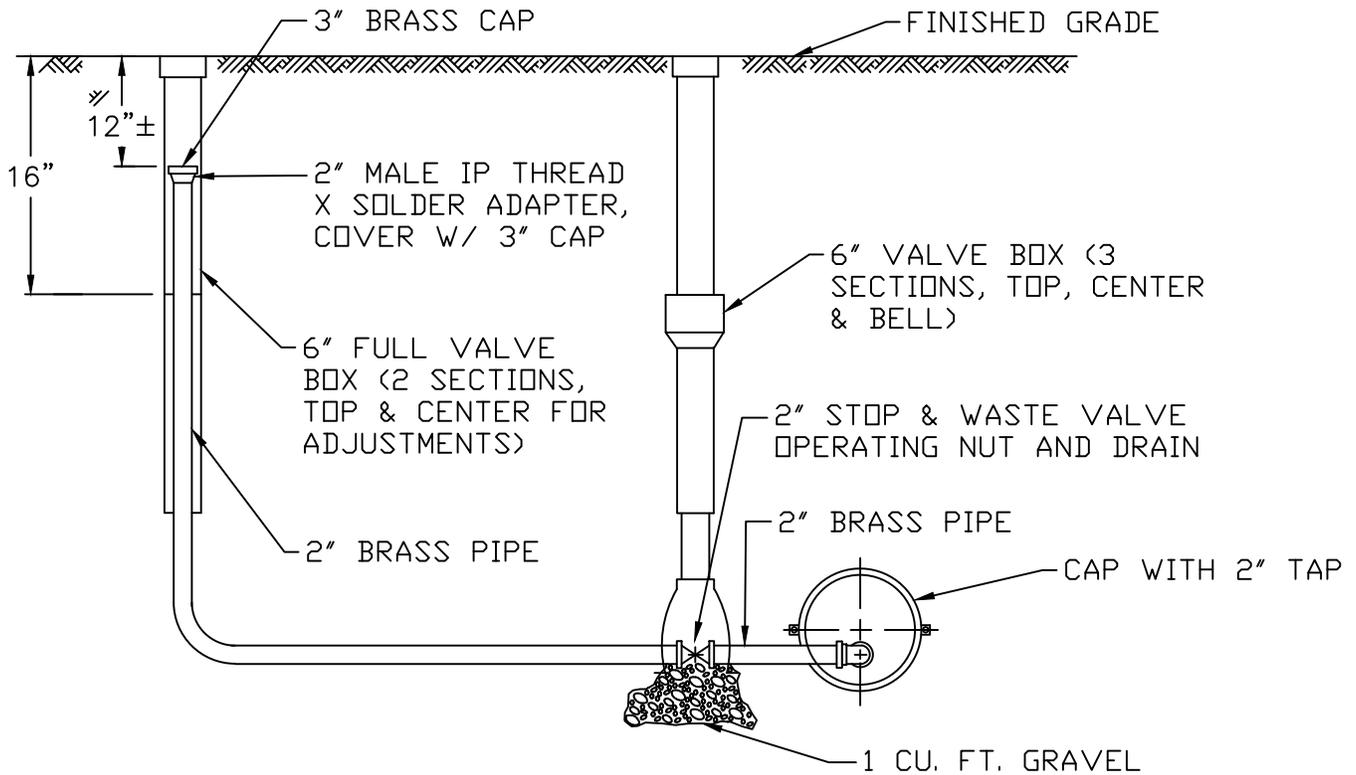
CAP SHALL BE MECHANICALLY RESTRAINED:

A. FOR SLEEVE TYPE MACHINED COUPLING PIPE, TIE BACK TO NEXT COUPLING.

B. FOR BELL AND SPIGOT PIPE, TIE TO BELL.



PLAN



ELEVATION

N.T.S.

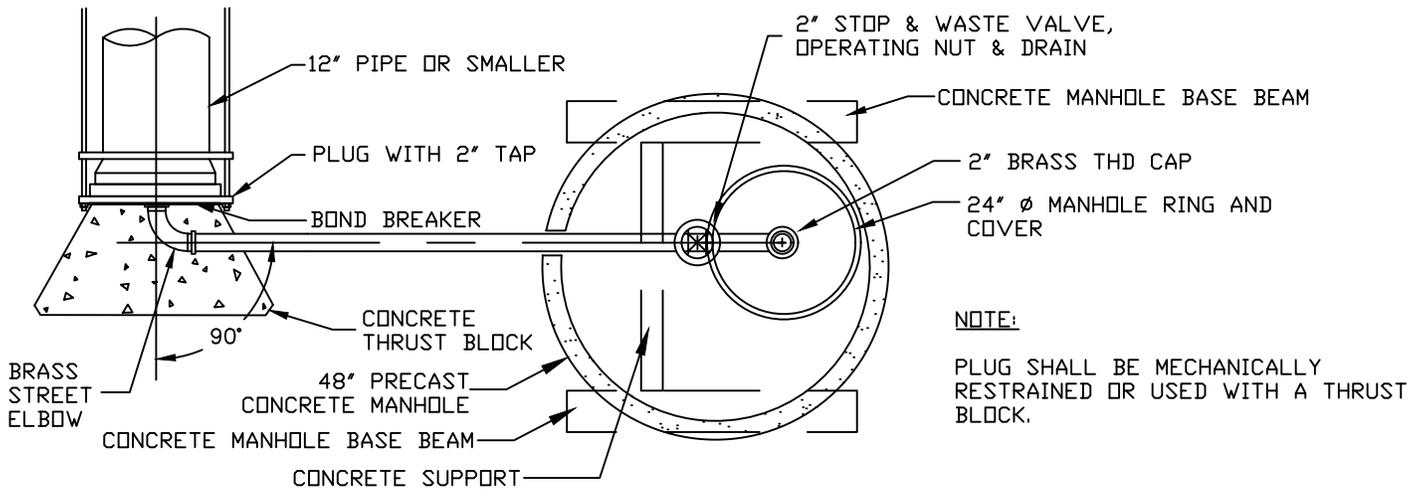


Brighton

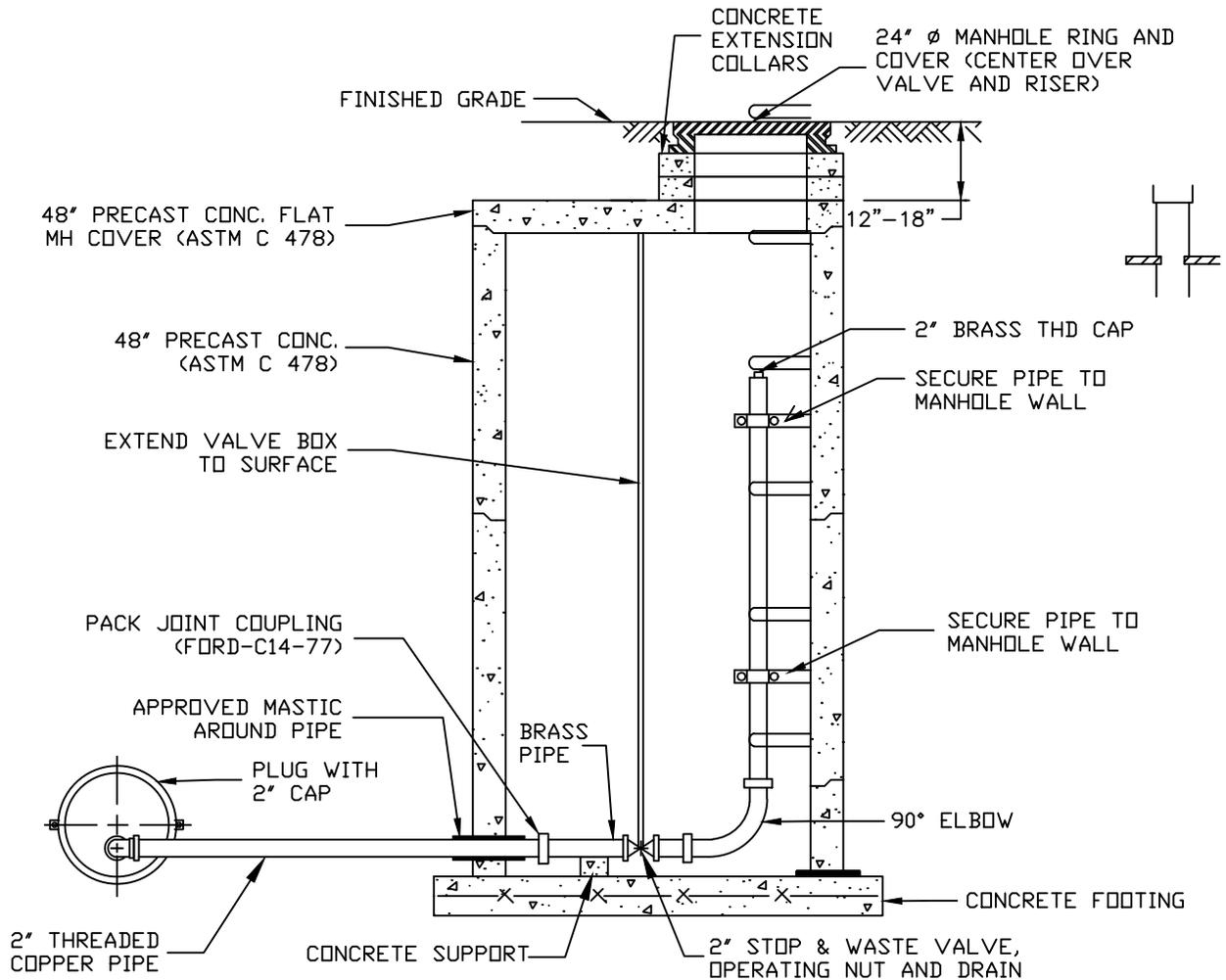
TEMPORARY 2"
BLOWOFF FOR 12"
AND SMALLER PIPE

DATE 8/11/2025
REVISED BY JJ

DRAWING
NUMBER
600-6



PLAN



ELEVATION

NOTES:

1. WITH PRIOR APPROVAL OF CITY OF BRIGHTON, A FIRE HYDRANT MAY BE SUBSTITUTED FOR THE PERMANENT 2" BLOW-OFF.
2. MEGALUG IS AN AN ACCEPTABLE ALTERNATIVE TO RODDING.
3. THE DISTANCE BETWEEN RUNGS, CLEATS, AND STEPS SHALL NOT EXCEED 12 INCHES AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER.

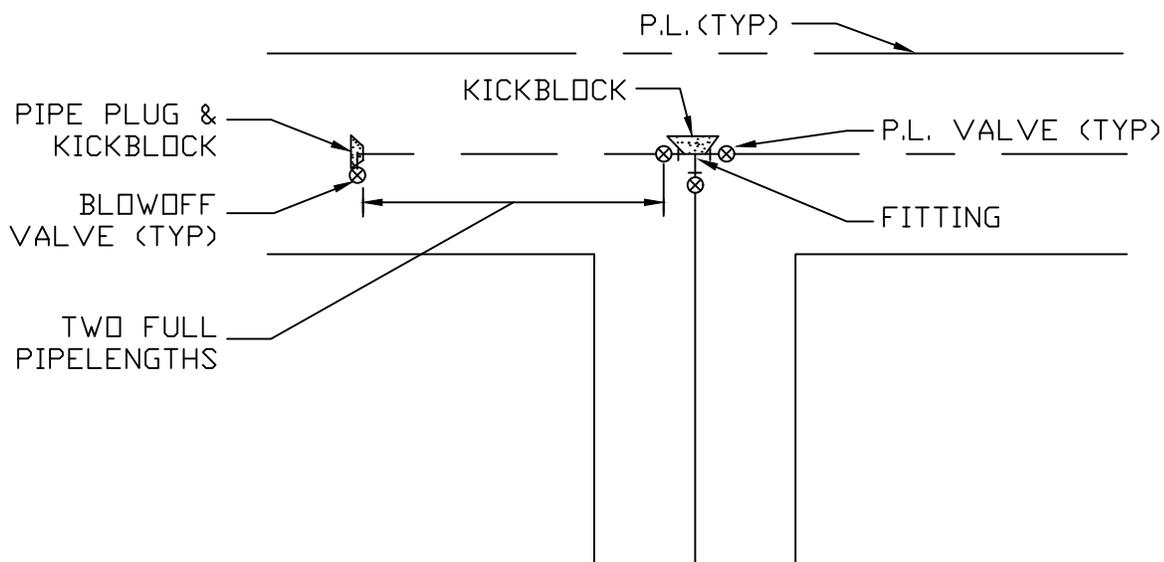
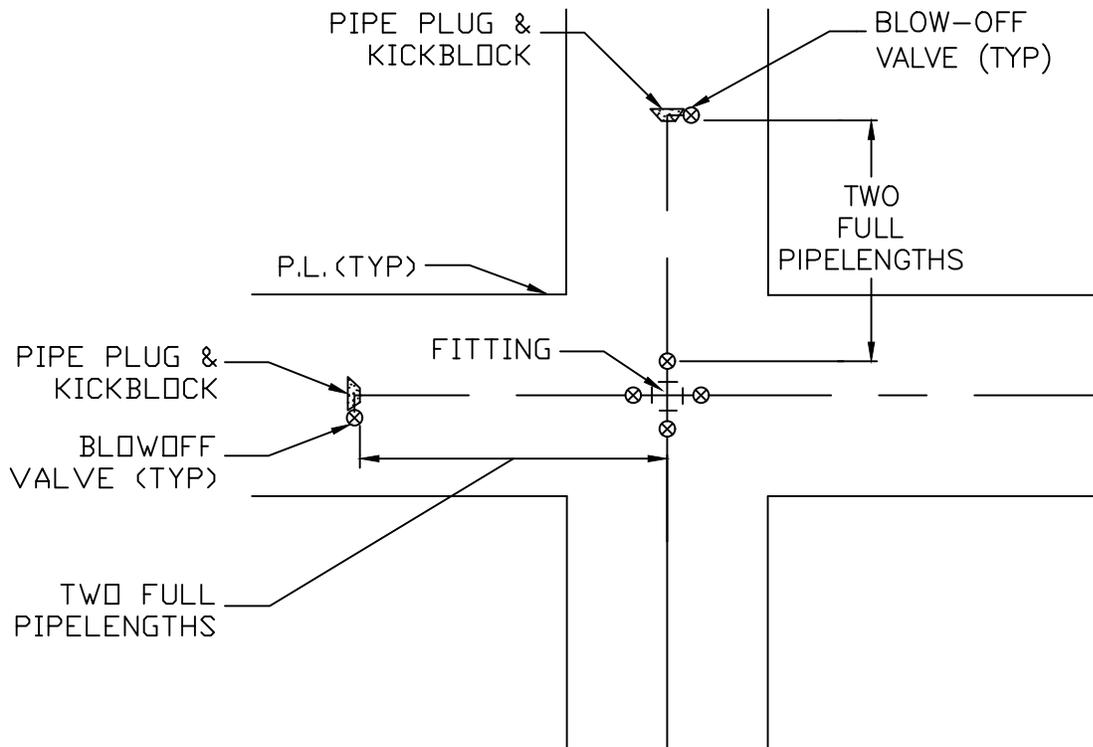
N.T.S.



PERMANENT 2"
 BLOWOFF FOR 12"
 AND SMALLER PIPE

DATE 6/25/2025
 REVISED BY JJ

DRAWING
 NUMBER
 600-7



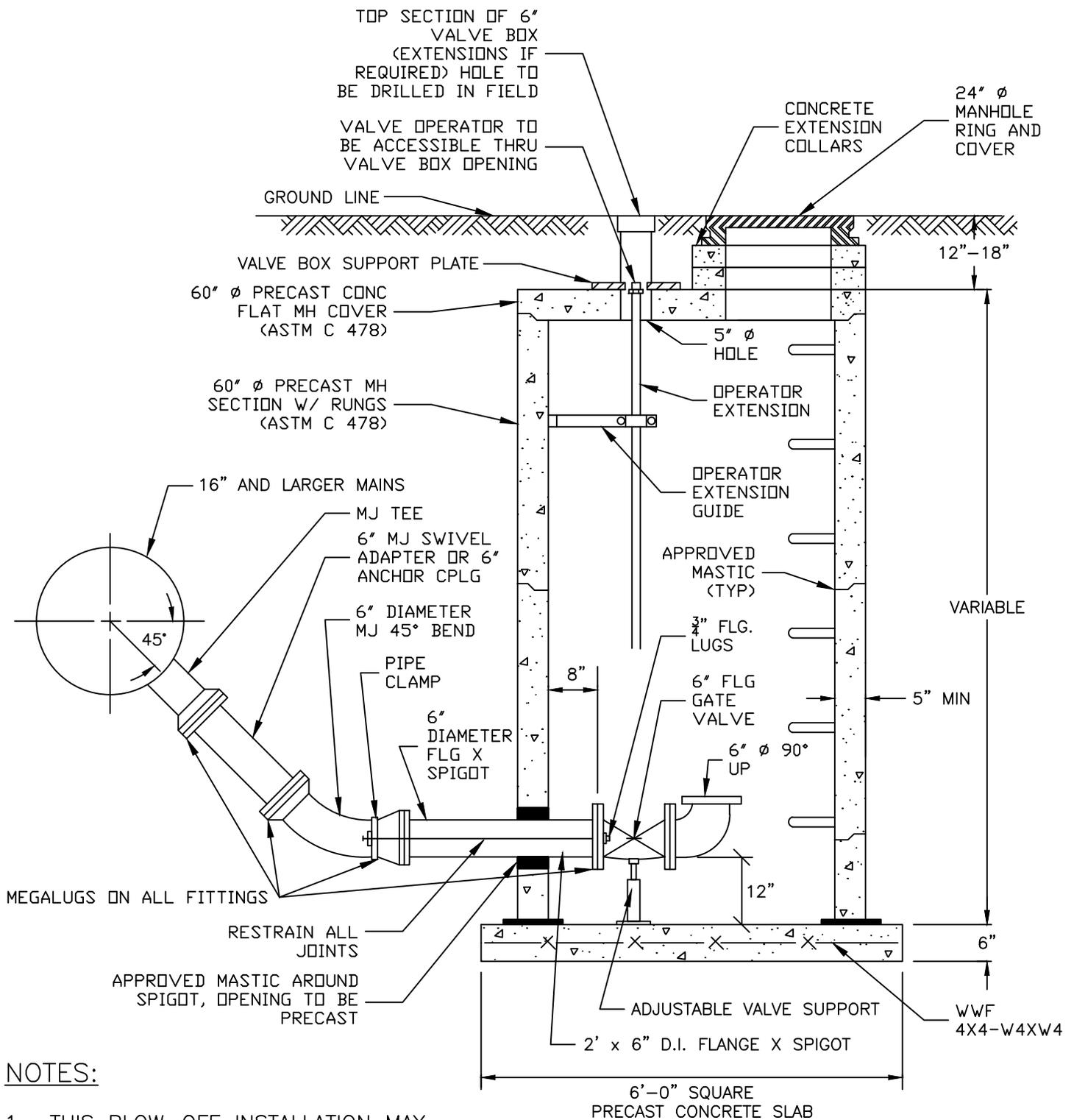
N.T.S.



DATE 8/7/2024
REVISED BY JJ

PIPING AT
INTERSECTION AND
FUTURE CONNECTIONS

DRAWING
NUMBER
600-8



NOTES:

1. THIS BLOW-OFF INSTALLATION MAY BE REPLACED BY A FIRE HYDRANT WHERE APPROVED BY THE CITY OF BRIGHTON FOR 16" AND LARGER MAINS.
2. MEGALUG IS AN ACCEPTABLE ALTERNATIVE TO RODDING.
3. THE DISTANCE BETWEEN RUNGS, CLEATS, AND STEPS SHALL NOT EXCEED 12 INCHES AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER.

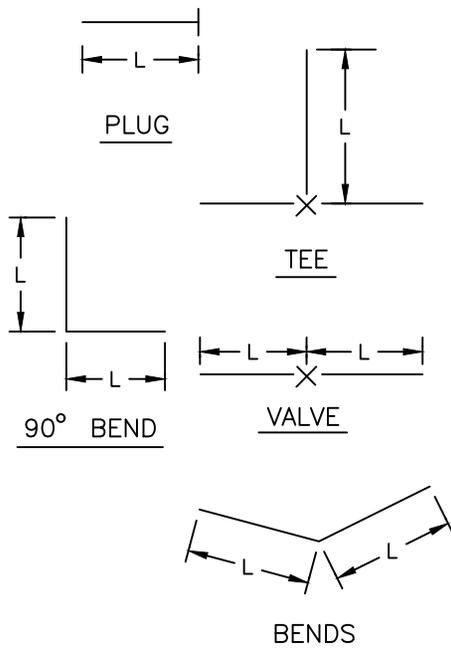
ELEVATION

N.T.S.

 Brighton	DATE 8/7/2024 REVISED BY JJ
	BLOWOFF TRANSMISSION MAIN - 6"

LENGTH OF RESTRAINED PIPE

PIPE SIZE	4"			6"			8"			12"			16"			20"			24"		
	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G
90° BEND TEE, PLUG OR VALVE	3/4"	30'	M.S.	3/4"	45'	M.S.	3/4"	60'	M.S.	3/4"	86'	H.S.	1"	108'	H.S.	1 1/4"	132'	H.S.	—	155'	—
45° BEND	3/4"	9'	M.S.	3/4"	13'	M.S.	3/4"	18'	M.S.	3/4"	25'	M.S.	1"	32'	M.S.	3/4"	39'	H.S.	—	45'	—
22 1/2° BEND	3/4"	1'	M.S.	3/4"	4'	M.S.	3/4"	5'	M.S.	3/4"	7'	M.S.	3/4"	8'	M.S.	3/4"	10'	M.S.	—	12'	—
11 1/4° BEND	—	—	—	—	—	—	3/4"	1'	M.S.	3/4"	2'	M.S.	3/4"	2'	M.S.	3/4"	3'	M.S.	—	3'	—



NOTES:

1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
2. D=DIAMETER, L=LENGTH, G=GRADE, M.S.=MILD STEEL, H.S.=HIGH STRENGTH.
3. MINIMUM 4.5' GROUND COVER REQUIRED.
4. BASED ON 150 PSI INTERNAL PRESSURE.
5. M.S. = MILD STEEL ROD ASTM A36.
6. H.S. = HIGH STRENGTH ROD ASTM A193 GRADE B7.
7. NUTS SHALL BE ASTM A307 GRADE A OR B HEXAGON HEAVY SERIES, HIGH STRENGTH NUTS SHALL BE ASTM A194, GRADE 2H.
8. SEE TIE ROD DETAIL DRAWING. ALSO, TIE ROD COUPLING DETAILS, CLAMP DETAILS AND SET CLAMP DETAILS.
9. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
10. LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALUGS.
11. TEE AND CROSS MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.

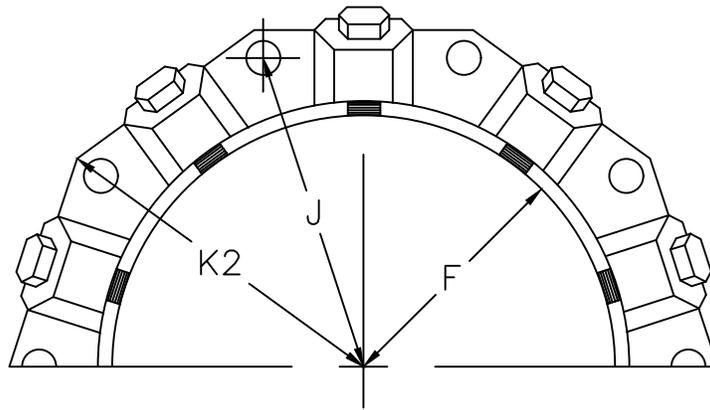


RESTRAINED PIPE
LENGTH

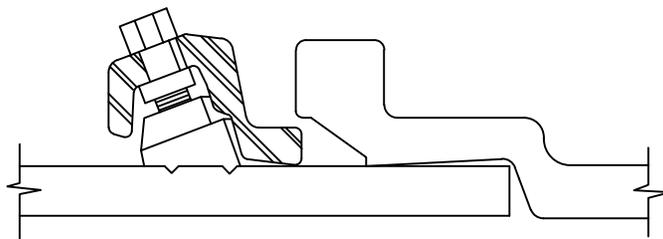
DATE 10/11/2022
REVISED BY MA

DRAWING
NUMBER

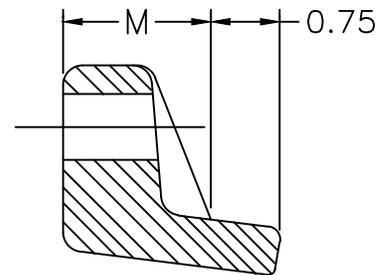
600-11



MECHANICAL JOINT RESTRAINT



WEDGE DETAIL



BOLT HOLE DETAIL

DIMENSIONS

	NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES	
P V C	4"	2	2					P V C
	6"	6	3	11.12	9.50	7.00	0.88	
	8"	6	4	13.37	11.75	9.15	1.00	
	10"	8	6	15.62	14.00	11.20	1.00	
	12"	8	8	17.88	16.25	13.30	1.25	
D I	4"	4	2					D I
	6"	6	3	11.12	9.50	7.00	0.88	
	8"	6	4	13.37	11.75	9.15	1.00	
	10"	8	6	15.62	14.00	11.20	1.00	
	12"	8	8	17.88	16.25	13.30	1.25	

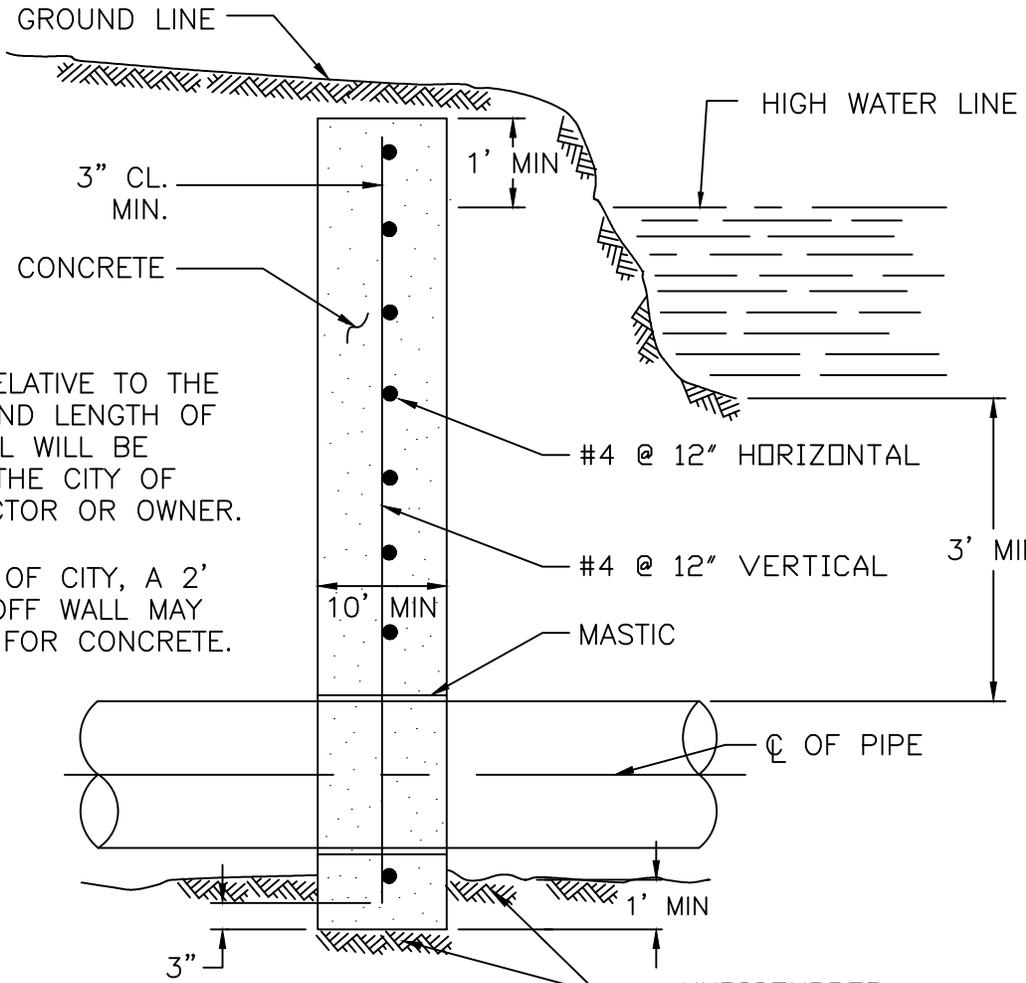
NOTES:

1. DIMENSIONS FOR 15" AND 20" D.I. PIPE NOT SHOWN.
2. OTHER MECHANICAL JOINT RESTRAINT DEVICES MUST BE APPROVED BEFORE INSTALLATION.

N.T.S.

 Brighton [™]	DATE 6/25/2025 REVISED BY JJ
	DRAWING NUMBER 600-12

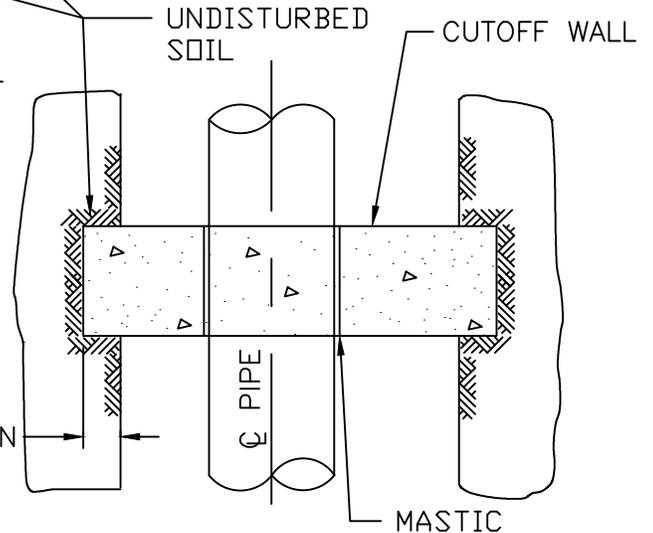
MECHANICAL JOINT RESTRAINT



SIDE VIEW

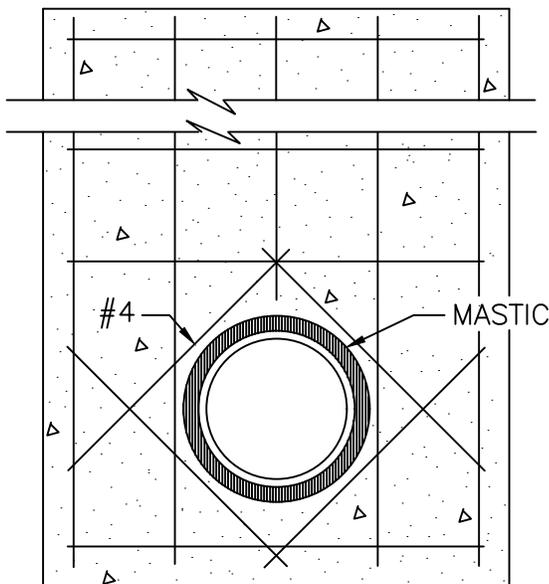
NOTES:

1. THE LOCATION RELATIVE TO THE CANAL, HEIGHT AND LENGTH OF THE CUTOFF WALL WILL BE DETERMINED BY THE CITY OF BRIGHTON INSPECTOR OR OWNER.
2. UPON APPROVAL OF CITY, A 2' THICK CLAY CUTOFF WALL MAY BE SUBSTITUTED FOR CONCRETE.



TOP VIEW

NOTE:
REINFORCEMENT
NOT SHOWN



FRONT VIEW

N.T.S.

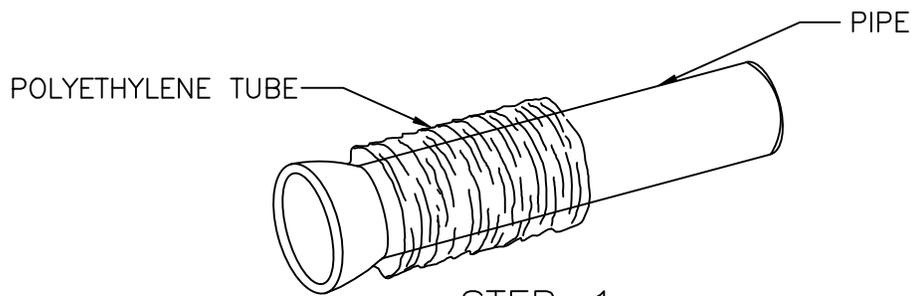


DATE 8/7/2024
REVISED BY JJ

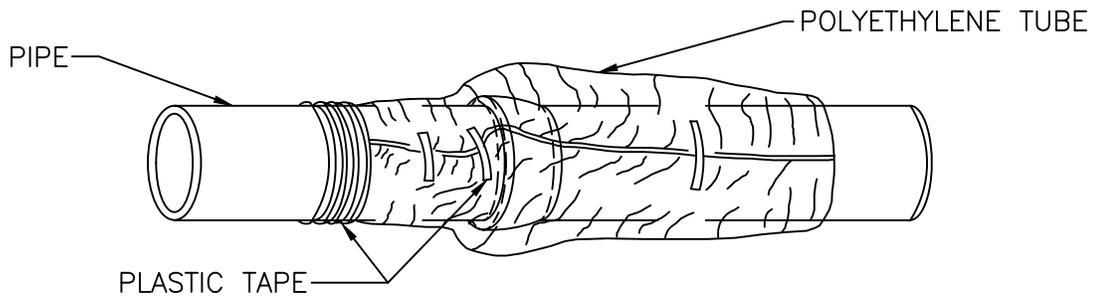
CUTOFF WALL

DRAWING
NUMBER

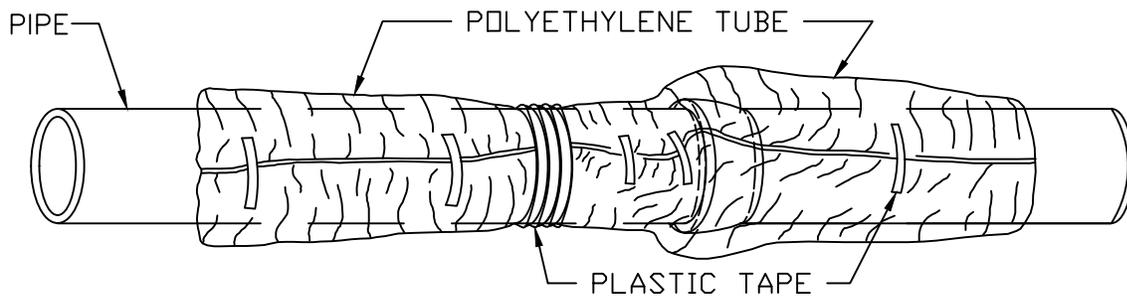
600-13



STEP-1



STEP-2



STEP-3

FIELD INSTALLATION - POLYETHYLENE WRAP

- STEP-1 PLACE TUBE OF POLYETHYLENE MATERIAL AROUND PIPE PRIOR TO LOWERING PIPE INTO TRENCH.
- STEP-2 PULL THE TUBE OVER THE LENGTH OF THE PIPE, TAPE TUBE TO PIPE AT JOINT, FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH THREE CIRCUMFERENTIAL TURNS OF TWO-INCH WIDE PLASTIC TAPE TO HOLD PLASTIC TUBE AROUND SPIGOT END.
- STEP-3 ADJACENT TUBE OVERLAPS FIRST TUBE AND IS SECURED WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE WILL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND.

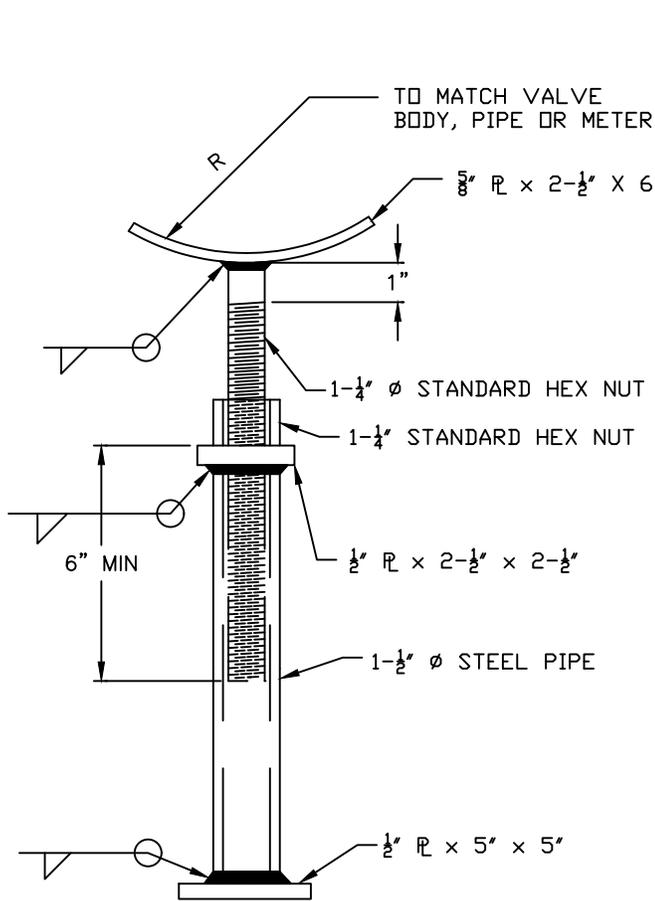
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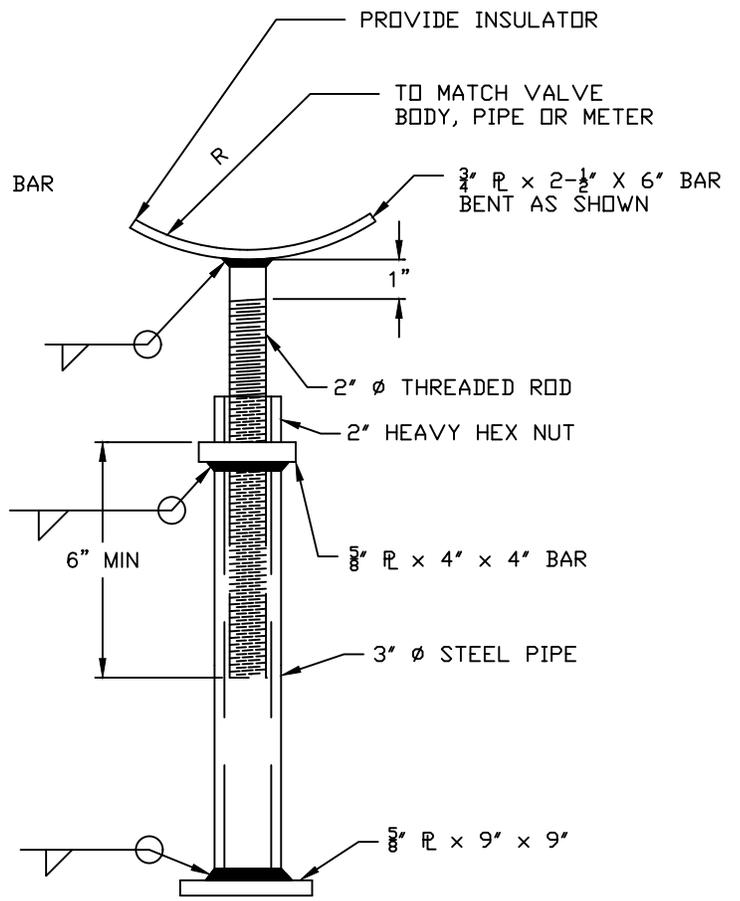
POLYETHYLENE WRAP

DATE 6/27/2025
REVISED BY JJ

DRAWING
NUMBER
600-14



ADJUSTABLE-SUPPORT
(STANDARD)



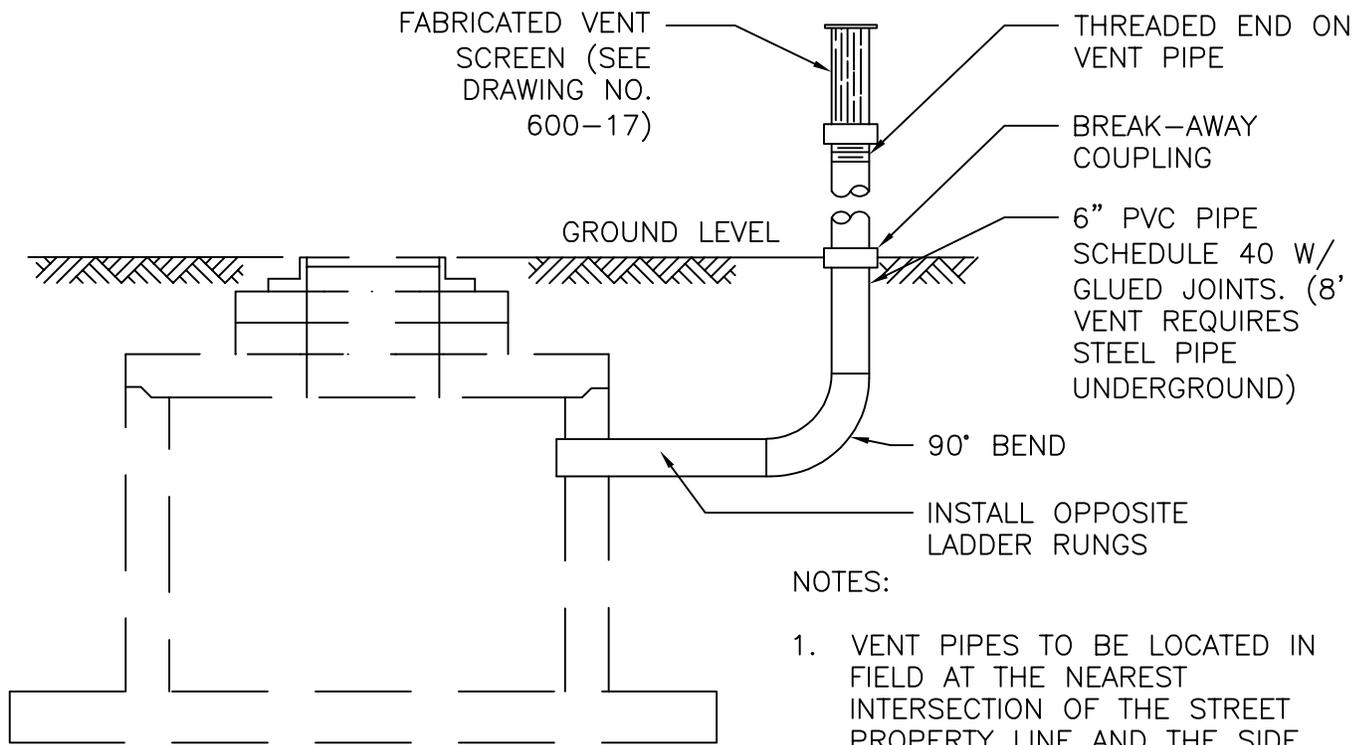
ADJUSTABLE-SUPPORT
(HEAVY DUTY)



ADJUSTABLE PIPE
VALVE SUPPORT

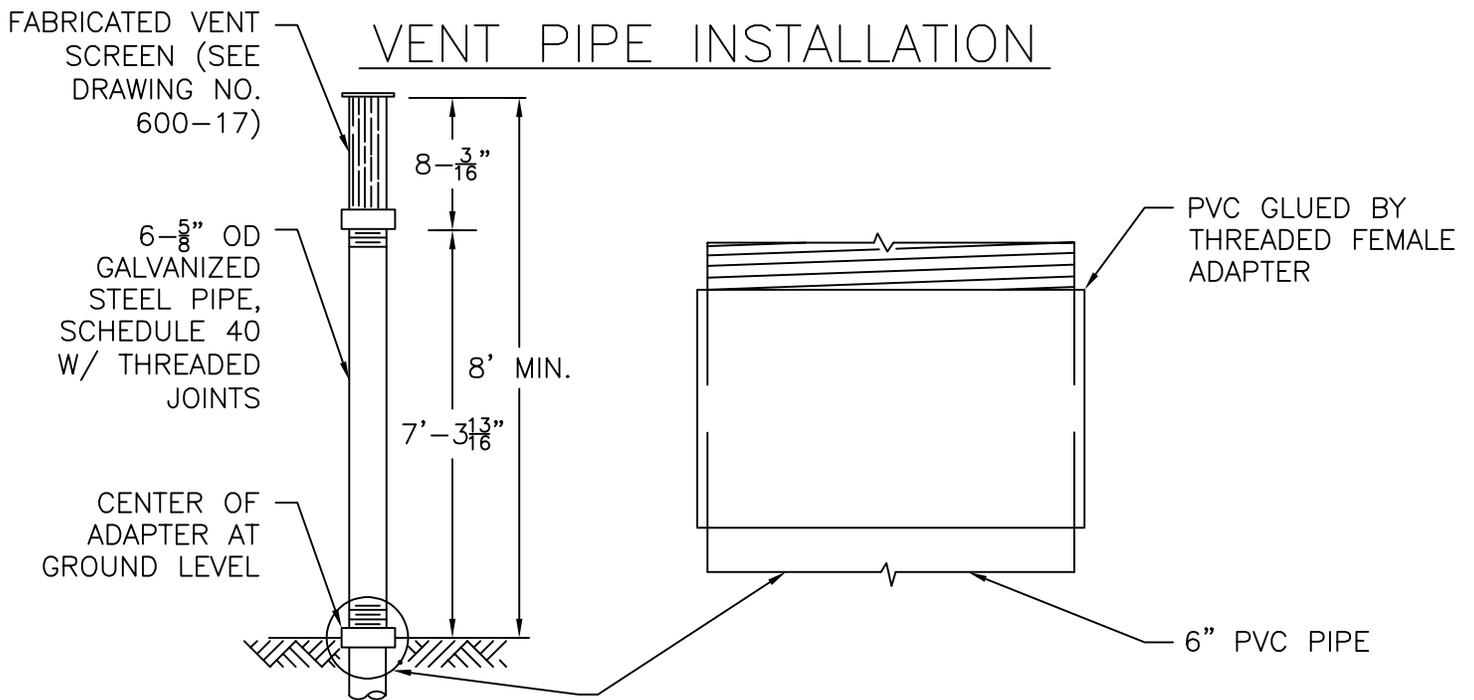
DATE 10/11/2022
REVISED BY MA

DRAWING
NUMBER
600-15



NOTES:

1. VENT PIPES TO BE LOCATED IN FIELD AT THE NEAREST INTERSECTION OF THE STREET PROPERTY LINE AND THE SIDE LOT LINE.
2. FOR RESIDENTIAL INSTALLATIONS SEE DRAWING NO. 600-18.



VENT PIPE AND BREAK-AWAY COUPLING DETAILS

NOTE:

VENT PIPE MUST BE LOCATED IN CLEAR ZONE FROM TRAFFIC. LOCATION MUST BE APPROVED BY THE CITY.

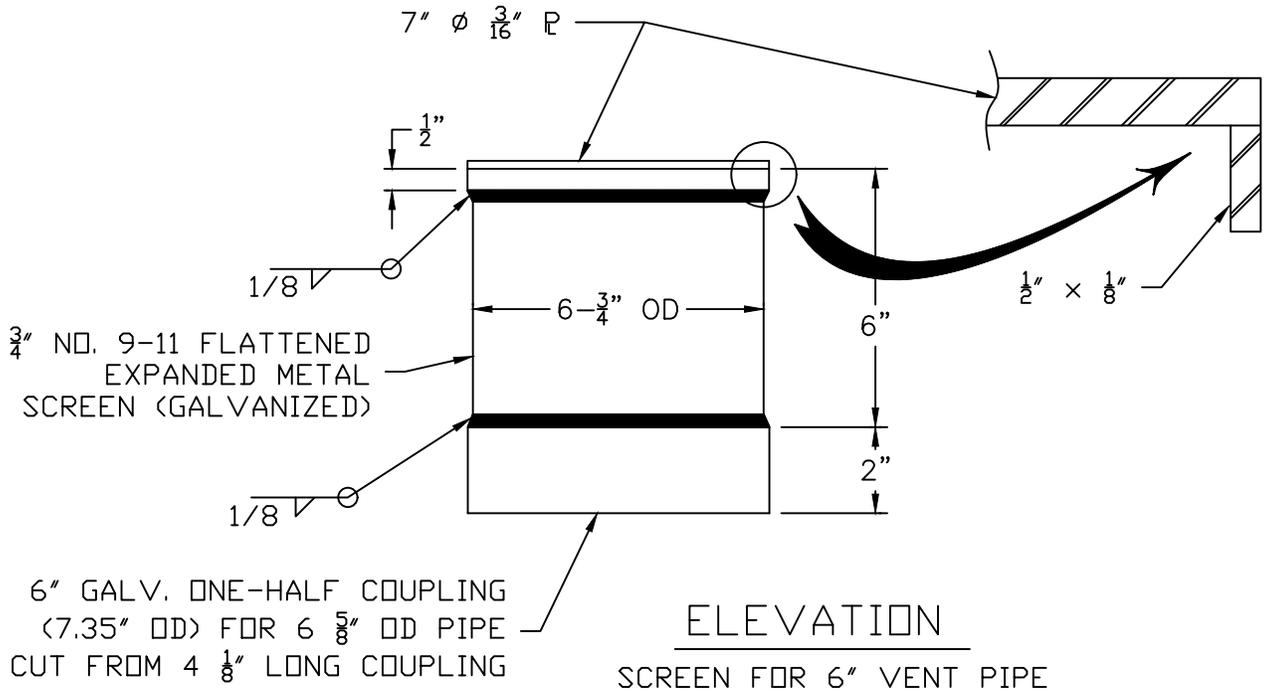


VENT PIPE –
INSTALLATION

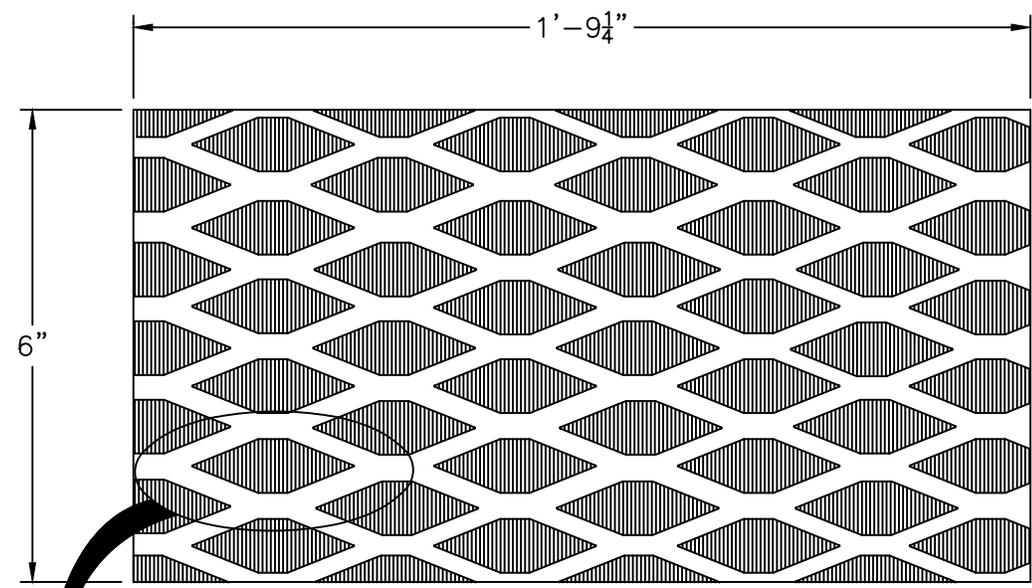
DATE 7/17/2024
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NUMBER

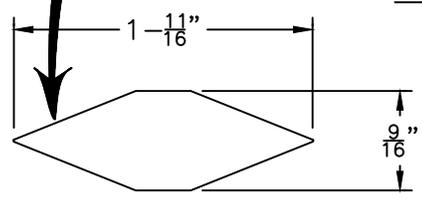
600-16



ELEVATION
SCREEN FOR 6" VENT PIPE

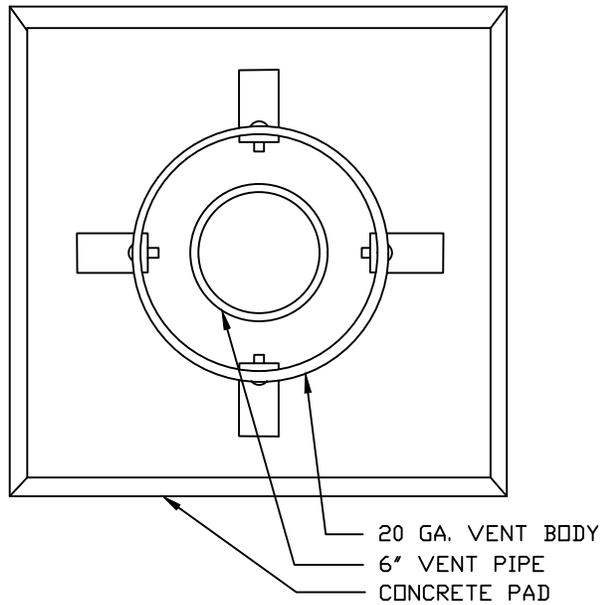


METAL SCREEN

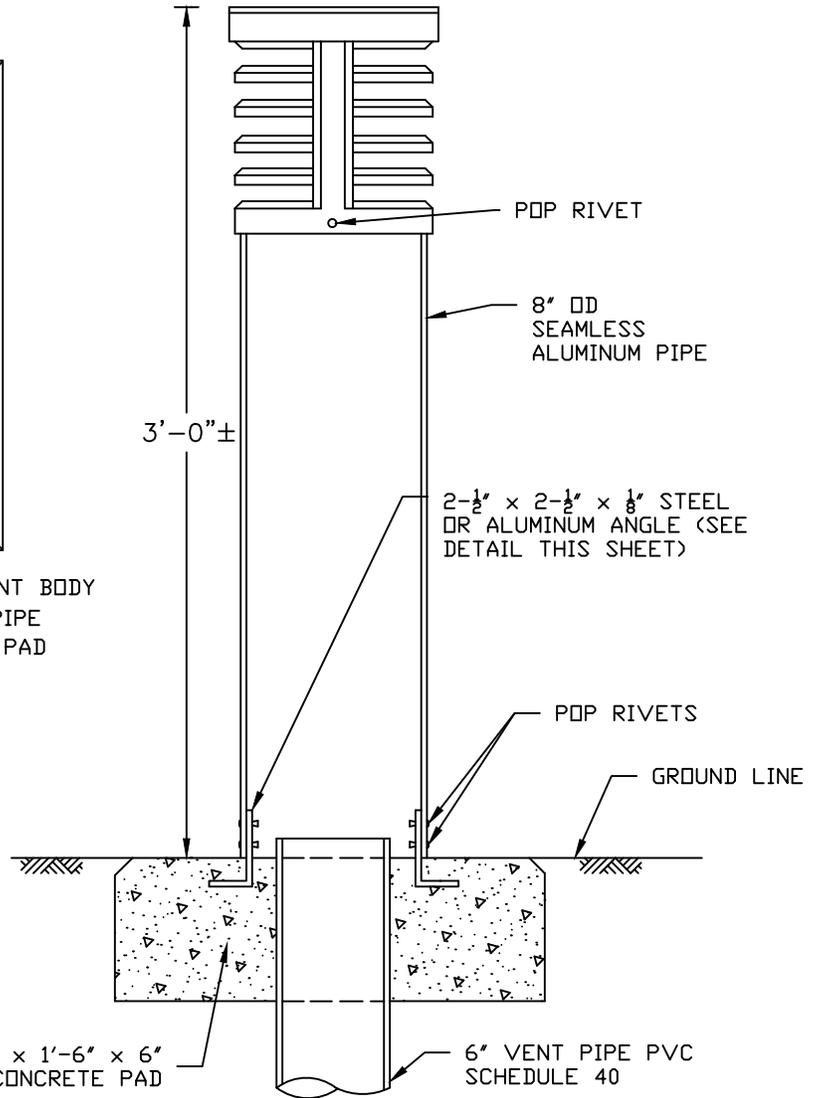


 Brighton SM	DATE 10/11/2022 REVISED BY MA
	DRAWING NUMBER 600-17

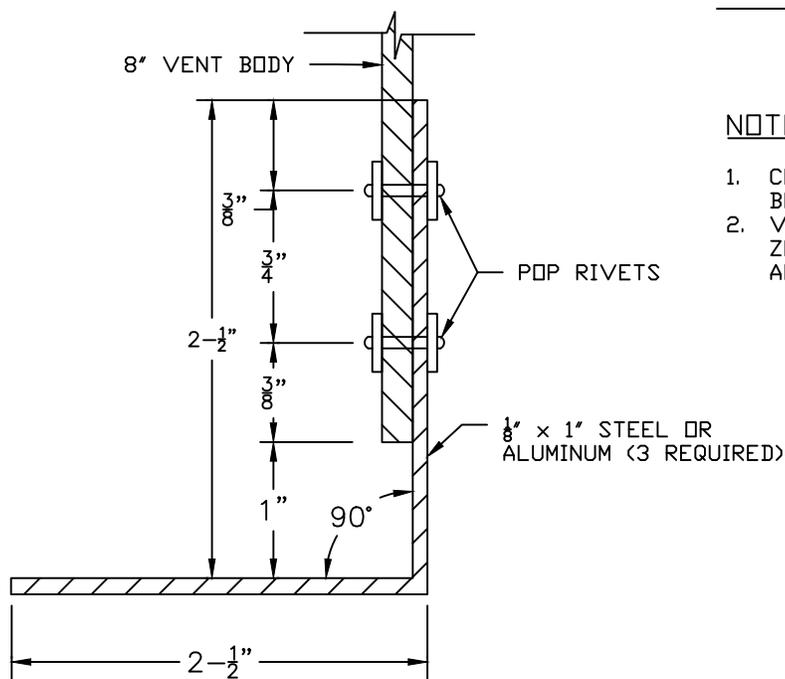
VENT PIPE SCREEN
 - 6" DIAMETER



BASE DETAIL



ROUND VENT SCREEN



STEEL OR ALUMINUM ANGLE DETAIL

NOTES:

1. COLOR SHALL BE OLIVE GREEN OR FLAT BLACK TO MATCH SURROUNDINGS.
2. VENT PIPE MUST BE LOCATED IN CLEAR ZONE FROM TRAFFIC, LOCATION MUST BE APPROVED BY THE CITY



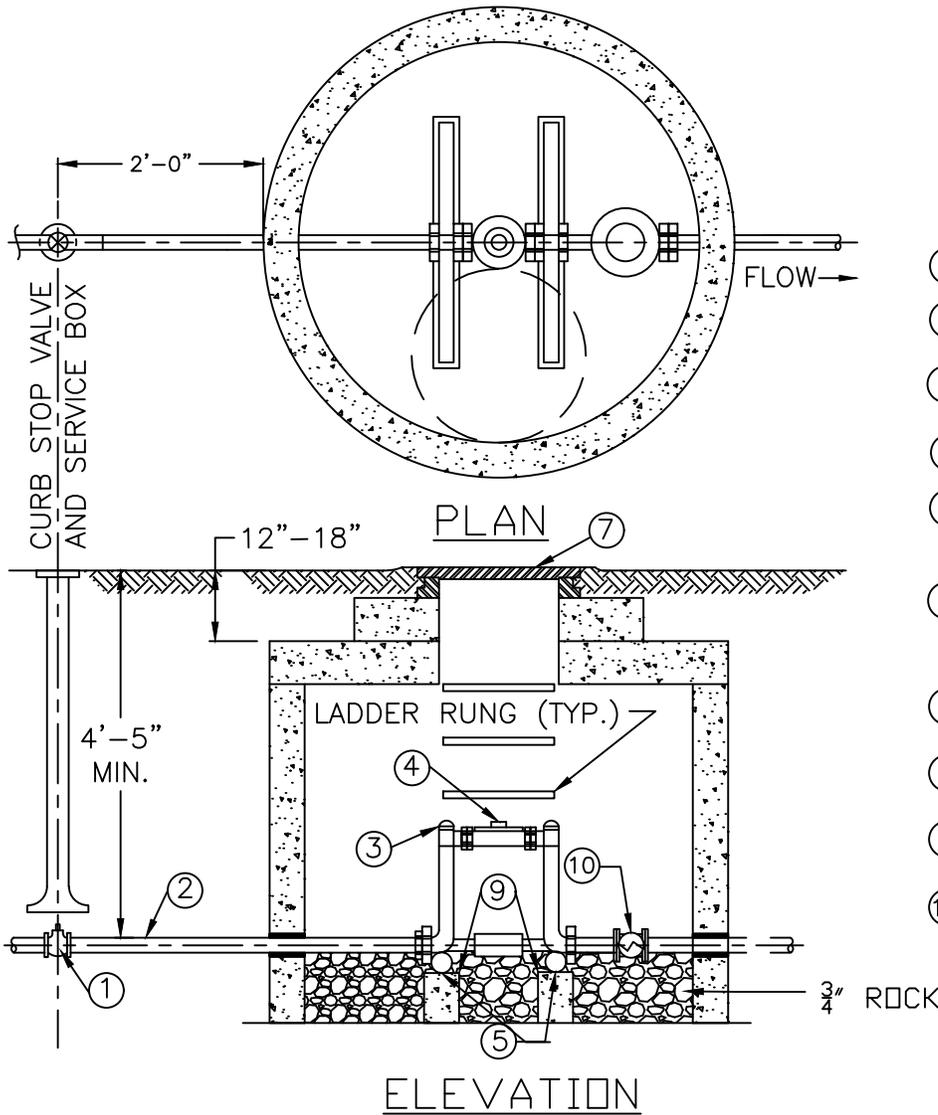
Brighton™

RESIDENTIAL VENT
ASSEMBLY

DATE 10/11/2022
REVISED BY MA

DRAWING
NUMBER

600-18



LEGEND:

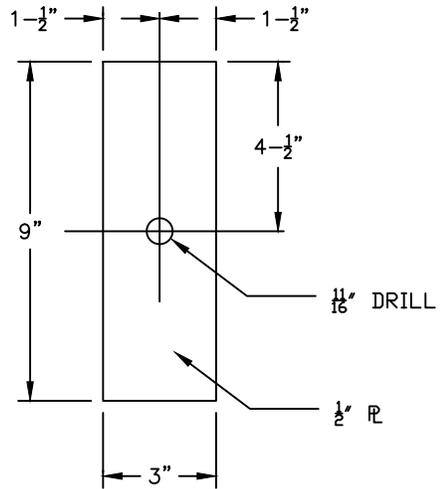
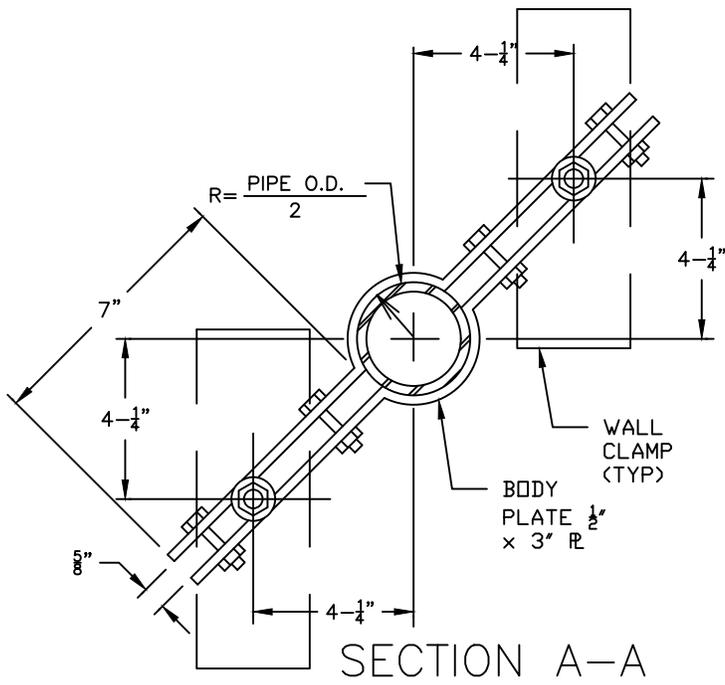
- ① CURB STOP D
- ② TYPE K COPPER TUBING
- ③ 12" COPPERSETTER WITH BALL VALVE AND CHECK VALVE
- ④ METER UNIT
- ⑤ 1" X 23" COPPER OR PLASTIC PIPE
- ⑥ BY-PASS WILL BE 1" FOR 1- $\frac{1}{2}$ " COPPERSETTERS AND 1- $\frac{1}{4}$ " OR 1- $\frac{1}{2}$ " FOR 2" COPPERSETTERS.
- ⑦ 24" COVER WITH "WATER" LETTERING
- ⑧ 48" CONE MANHOLE
- ⑨ CONCRETE BLOCK SUPPORTS 4" X 4" X 24"
- ⑩ CHECK VALVE

NOTES:

1. METER SETTING MUST BE INSPECTED BEFORE BACKFILLING.
2. BYPASS IS TO BE INSTALLED UNLESS OTHERWISE SPECIFIED.
3. NO CONCRETE TO BE LAID IN FLOOR OF METER PIT.
4. PIPING SHALL BE TYPE "K" COPPER.
5. THE WORD "WATER" SHALL BE CAST ON THE LID, EXCEPT FOR AN IRRIGATION METER, IN WHICH THE WORDS "IRRIGATION" OR "WATER METER" SHALL BE CAST ON THE LID.
6. $\frac{3}{4}$ " OR 1- $\frac{1}{2}$ " ROCK SHALL BE PLACED IN THE FLOOR OF METER PIT 6" THICK.
7. SUPPORT UNDER METER MAY BE BRICK OR CONCRETE BLOCK.
8. COMPRESSION JOINTS MUST BE USED INSIDE VAULT.
9. LOCATION OF METER TO BE APPROVED BY THE CITY.
10. ALL SETTINGS MUST BE INSPECTED BY THE CITY.
11. IF THE STREET OR GROUND IS NOT TO FINAL GRADE AT THE TIME OF INSTALLATION OF THE METER, THE OWNER MUST RAISE OR LOWER THE METER WHEN THE FINAL GRADE IS ESTABLISHED.
12. JOINTS AND GALVANIZED PIPING SHALL NOT BE ALLOWED INSIDE THE METER SETTING.
13. A BYPASS IS REQUIRED ON ALL METERS 1- $\frac{1}{2}$ " AND LARGER UNLESS OTHERWISE SPECIFIED BY THE CITY.
14. THE SERVICE LINE THROUGH AND ON BOTH SIDES OF THE METER PIT MUST BE OF TYPE "K" COPPER PIPE.
15. NO CONNECTIONS SHALL BE MADE IN THE METER PIT. ANY CONNECTIONS MUST BE MADE MORE THAN 5 FEET FROM THE METER PIT ON THE PRIVATE SIDE.
16. SETTINGS OF METERS OTHER THAN SHOWN AND DETAILED HEREIN SHALL BE CONSIDERED AS NON-STANDARD AND SHALL REQUIRE APPROVAL OF PROPOSED PIPING LAYOUT, METER SETTINGS AND STRUCTURAL DESIGN OF VAULT FOR EACH SEPARATE INSTALLATION.
17. BACKFLOW PREVENTION DEVICES WILL BE REQUIRED.

N.T.S.

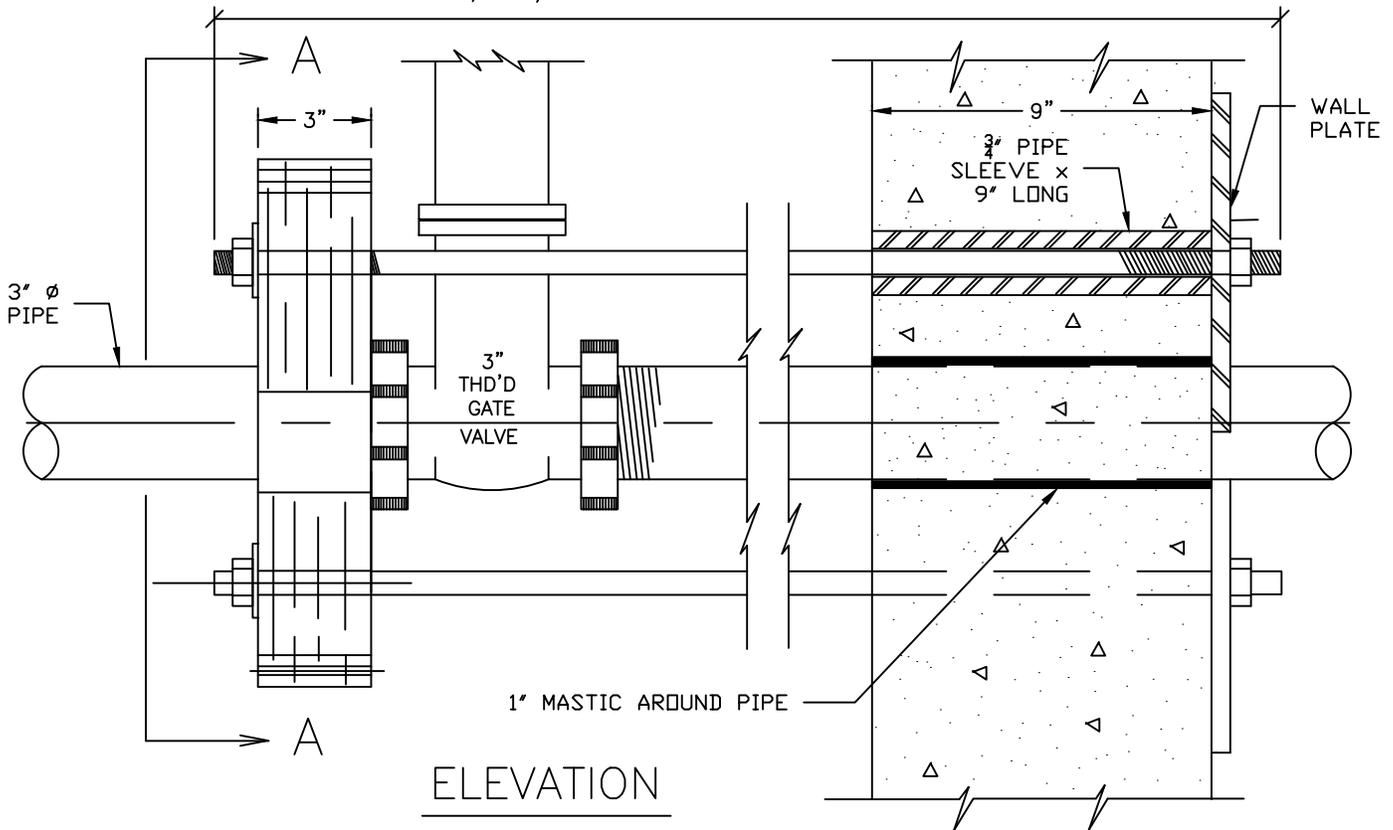
 Brighton METER INSTALLATION IN MANHOLE FOR 1- $\frac{1}{2}$ " OR 2" SERVICES	DATE 6/26/2025 REVISED BY JJ
	DRAWING NUMBER 600-20



WALL PLATE

4 REQUIRED

2-5/8" Ø RODS 34" LONG THD'D. 5" EACH END



ELEVATION



Brighton™

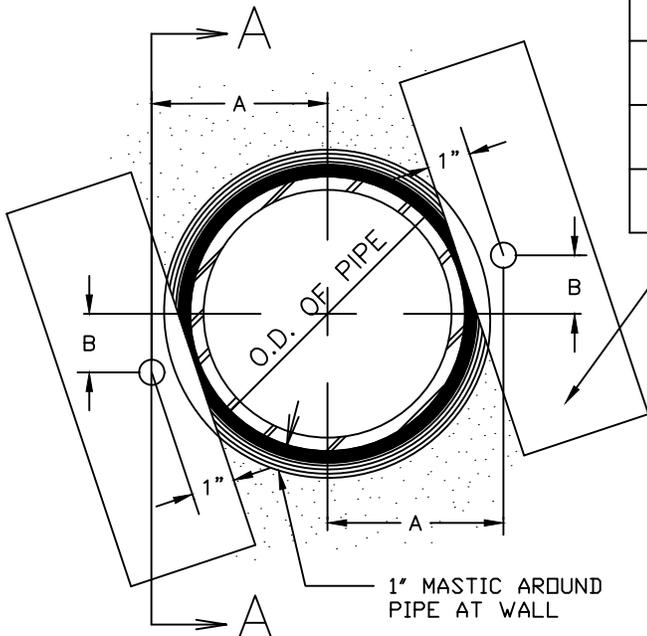
DATE 10/11/2022
REVISED BY MA

WALL PLATES - 3"
METERS

DRAWING
NUMBER

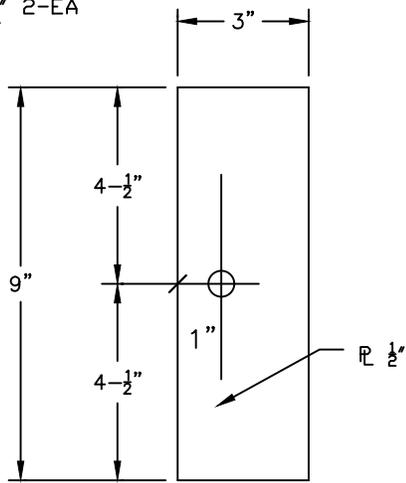
600-21

PIPE SIZE	RODS NO. & SIZE	WALL PIPE SLEEVES	"A"	"B"
4"	2-5/8" \varnothing	3/4" X 9"	3 1/2"	1 7/16"
6"	2-5/8" \varnothing	3/4" X 9"	4 3/8"	1 13/16"
8"	2-3/4" \varnothing	1" X 9"	5 7/16"	2 1/4"
10"	2-7/8" \varnothing	1-1/2" X 9"	5 7/8"	3 3/8"

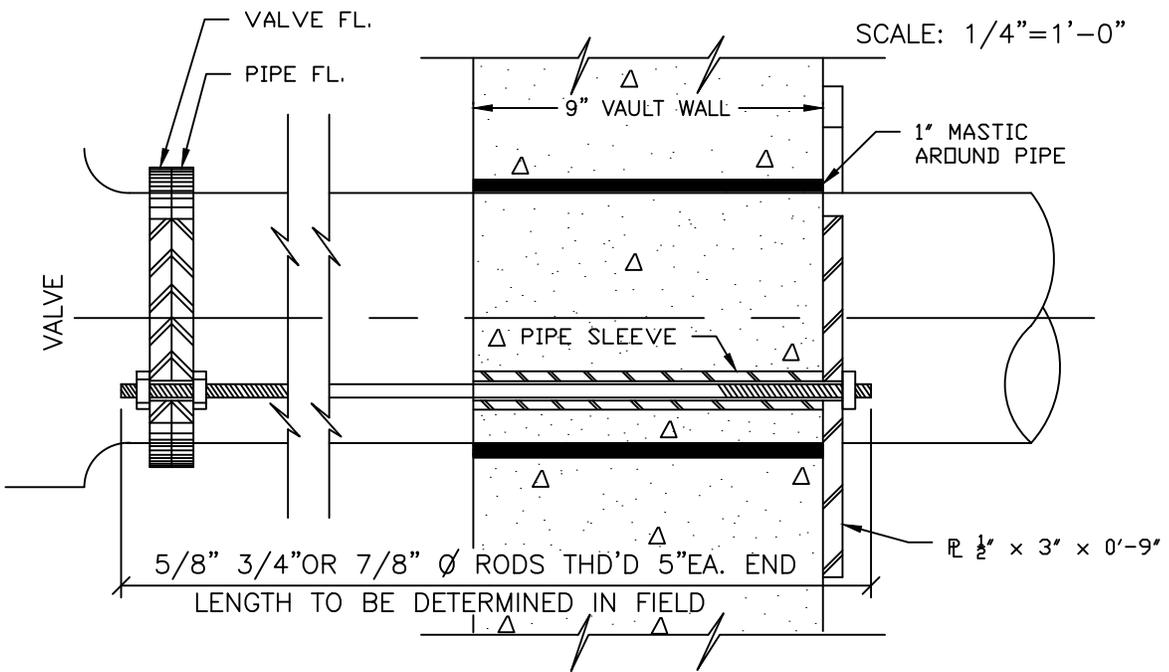


EXTERIOR ELEVATION

R 1/2" x 3' x 9' 2-EA END OF VAULT



WALL PLATE



SECTION A-A

SCALE: 1/4" = 1'-0"



DATE 10/11/2022
REVISED BY MA

WALL PLATES -
LARGER METERS

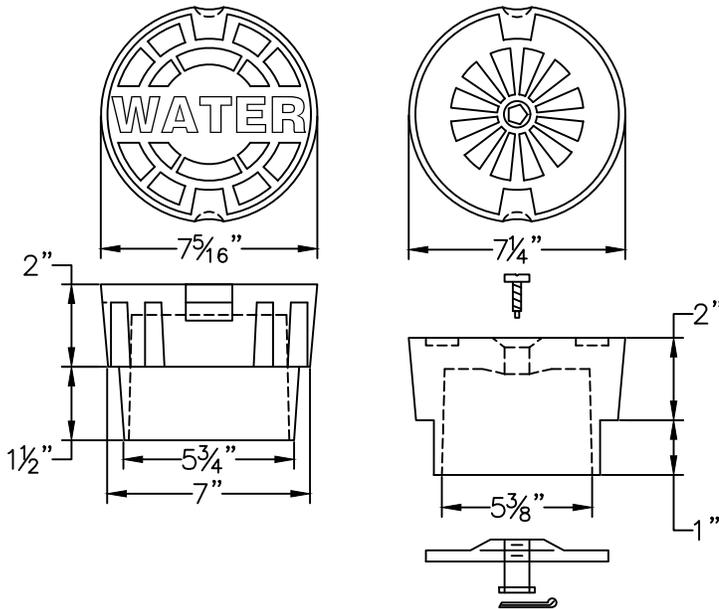
DRAWING
NUMBER
600-22

BOX COMPLETE

ITEM	EXTENSION		TOP SECTION		BOTTOM SECTION	
	LN "	WT	L=	WT	L=	WT
C.I.-462-S	27-32	70	10	35	24	35
C.I.-562-S	27-37	80	16	32	24	35
C.I.-563-S	33-43	85	16	32	30	40
C.I.-564-S	39-50	90	16	32	36	44-45
C.I.-662-S	36-52	105	26	48-52	30	40
C.I.-664-S	39-60	110	26	48-52	36	44-48
C.I.-666-S	51-71	135	26	48-52	**48	70
C.I.-668-S	62-82	145	26	48-52	**60	80

ALL WEIGHTS ARE APPROXIMATE

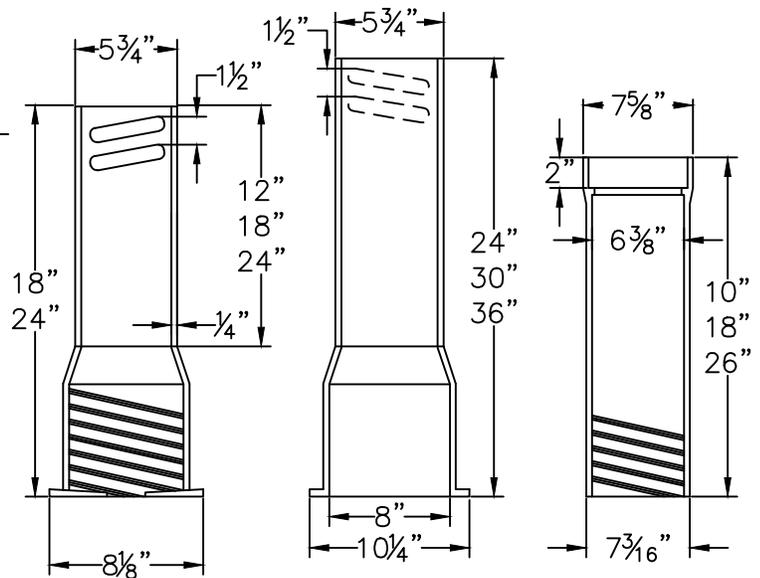
**MAY BE FURNISHED IN TWO PIECES SCREWED TOGETHER TO MAKE THE LENGTH REQUIRED



5/4 DROP LID VARIABLE SKIRT DEPTHS	
SKIRT	WT
2	13

5/4 LOCK LID	
SKIRT	WT
2	18

ITEM	HEIGHT INCREASE	WT
58	14	28
59	18	35
60	24	42



58 & 59 EXTENSION BOTTOM SECTION TOP SECTION

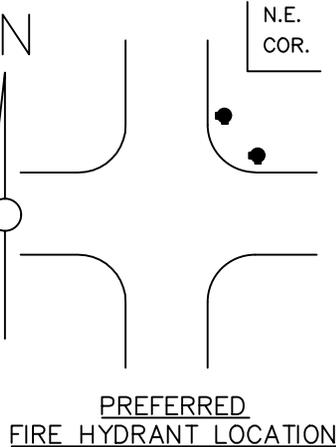
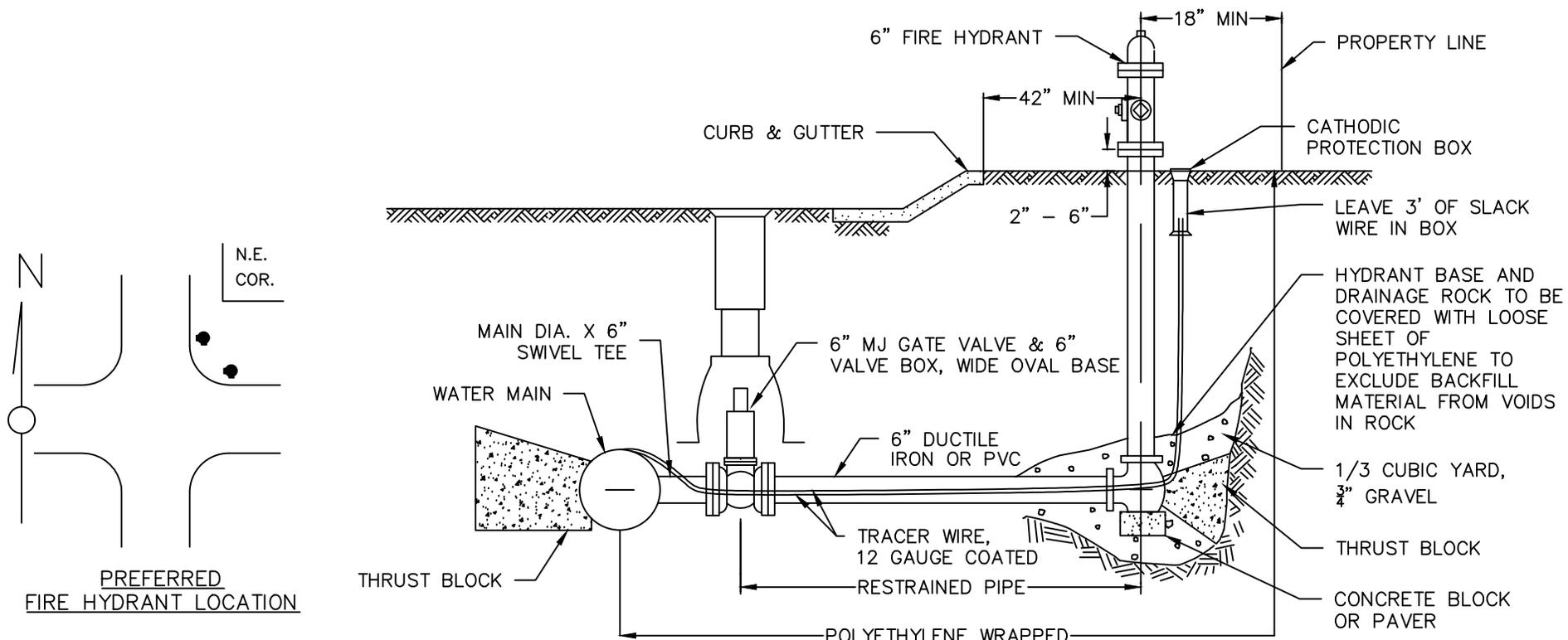
NOTES:

- NON-POTABLE/IRRIGATION VALVE LID SHOULD USE ∇ (THE TRIANGLE WATER SYMBOL) OR IRR IN LIEU OF WATER AS THE LABEL.
- OTHER LIDS SHOULD USE THE APPROPRIATE LABEL TO THE UTILITY FOR WHICH THE LID IS USED.

N.T.S.

 Brighton™	DATE 7/26/2024 REVISED BY JJ
	DRAWING NUMBER 600-25

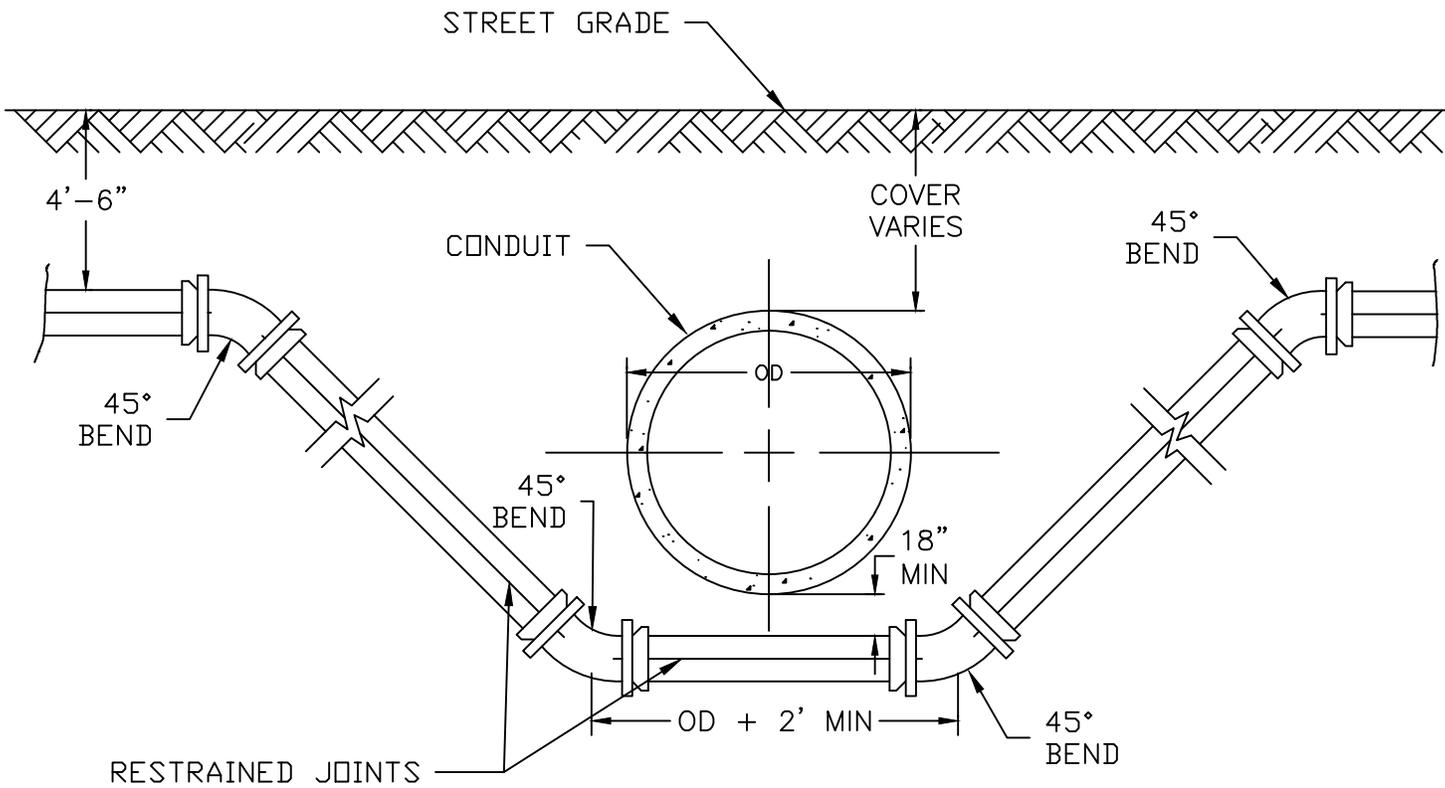
VALVE BOX



NOTES:

1. FASTEN MJ VALVE DIRECTLY TO A MJ ANCHOR TEE OR SWIVEL TEE.
2. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH OR SPRINKLER.
3. MEGALUG IS AN ACCEPTABLE ALTERNATIVE TO RODDING.
4. IF PERFORMING WET TAP, A TAPPING VALVE AND SADDLE SHALL BE USED IN PLACE OF MJ TEE, SWIVEL ADAPTER, AND VALVE.
5. ALL DUCTILE IRON SHALL BE ENCASED IN POLYETHYLENE WRAP.
6. INSTALL TRACER WIRE FOR WATER MAIN AND TERMINATE AT CP BOX. PLACE THREE FEET OF SLACK INSIDE CP BOX.
7. INSTALL ROCK FROM BOTTOM OF TRENCH TO AT LEAST 12" ABOVE BARREL FLANGE OF HYDRANT TO A DISTANCE OF 12" AROUND ELBOW
8. 6" MIN FROM BOTTOM OF TRENCH TO HYDRANT ELBOW
9. BEDDING AND PIPE ZONE MATERIAL SHALL BE USED FROM 6" BELOW TO 12" ABOVE BRANCH LINE.
10. TURN DIRECTION INDICATOR REQUIRED ON HYDRANT BARREL: LEFT-HAND TURN FIRE HYDRANTS PREFERRED (COUNTER-CLOCKWISE).

 Brighton™ FIRE HYDRANT	DATE 8/21/2024 REVISED BY AS
	DRAWING NUMBER
	600-26



NOTES:

1. LENGTH OF EXTENSION OF PIPE AND RESTRAINED JOINTS SHALL BE IN ACCORDANCE WITH THESE ENGINEERING STANDARDS.
2. CATHODIC PROTECTION SHALL BE AS REQUIRED IN ACCORDANCE WITH THESE ENGINEERING STANDARDS.
3. A BORED CROSSING MAY BE REQUIRED BY THE ENGINEER.
4. KICKERS SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER.
5. MIN. VERTICAL SEPARATION SHALL INCREASE TO 24" IF WATER IS PROPOSED TO CROSS UNDER SANITARY SEWER, IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS.

N.T.S.



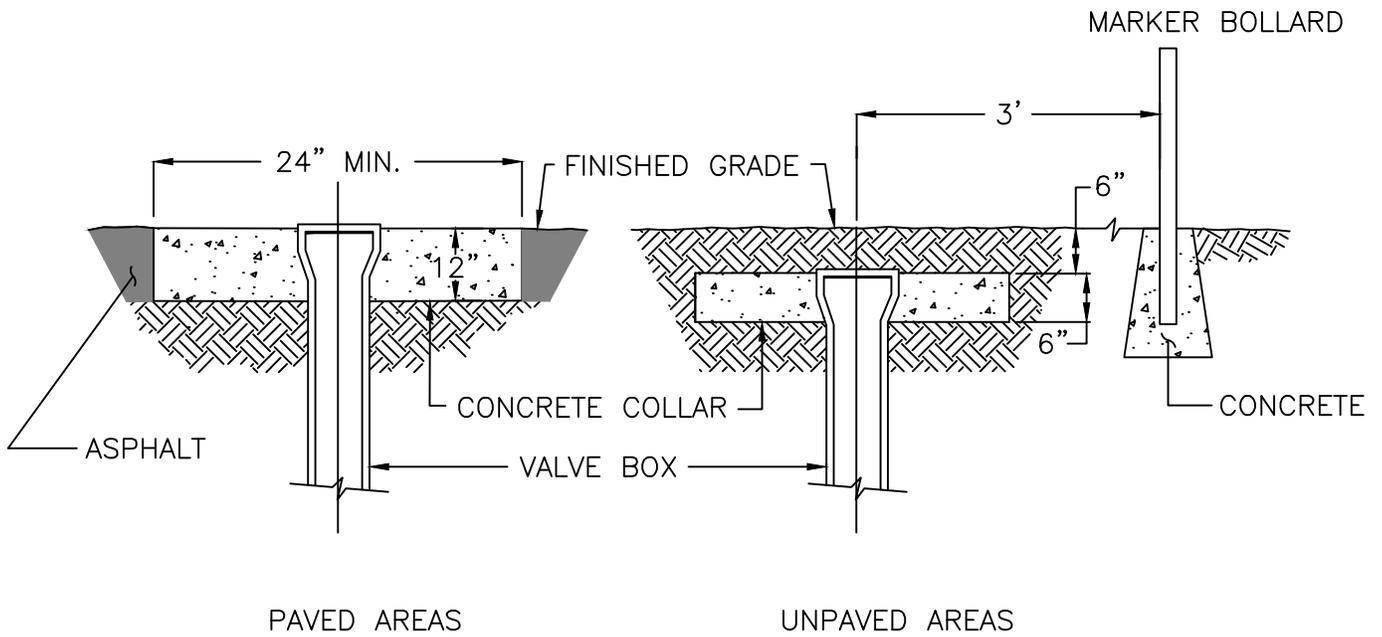
Brighton[™]

LOWERING

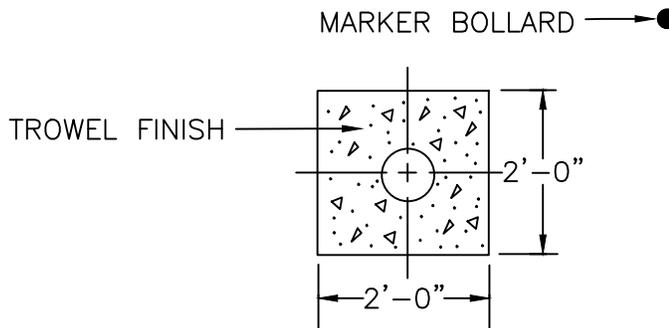
DATE 8/11/2025
REVISED BY JJ

DRAWING
NUMBER

600-27



SECTION



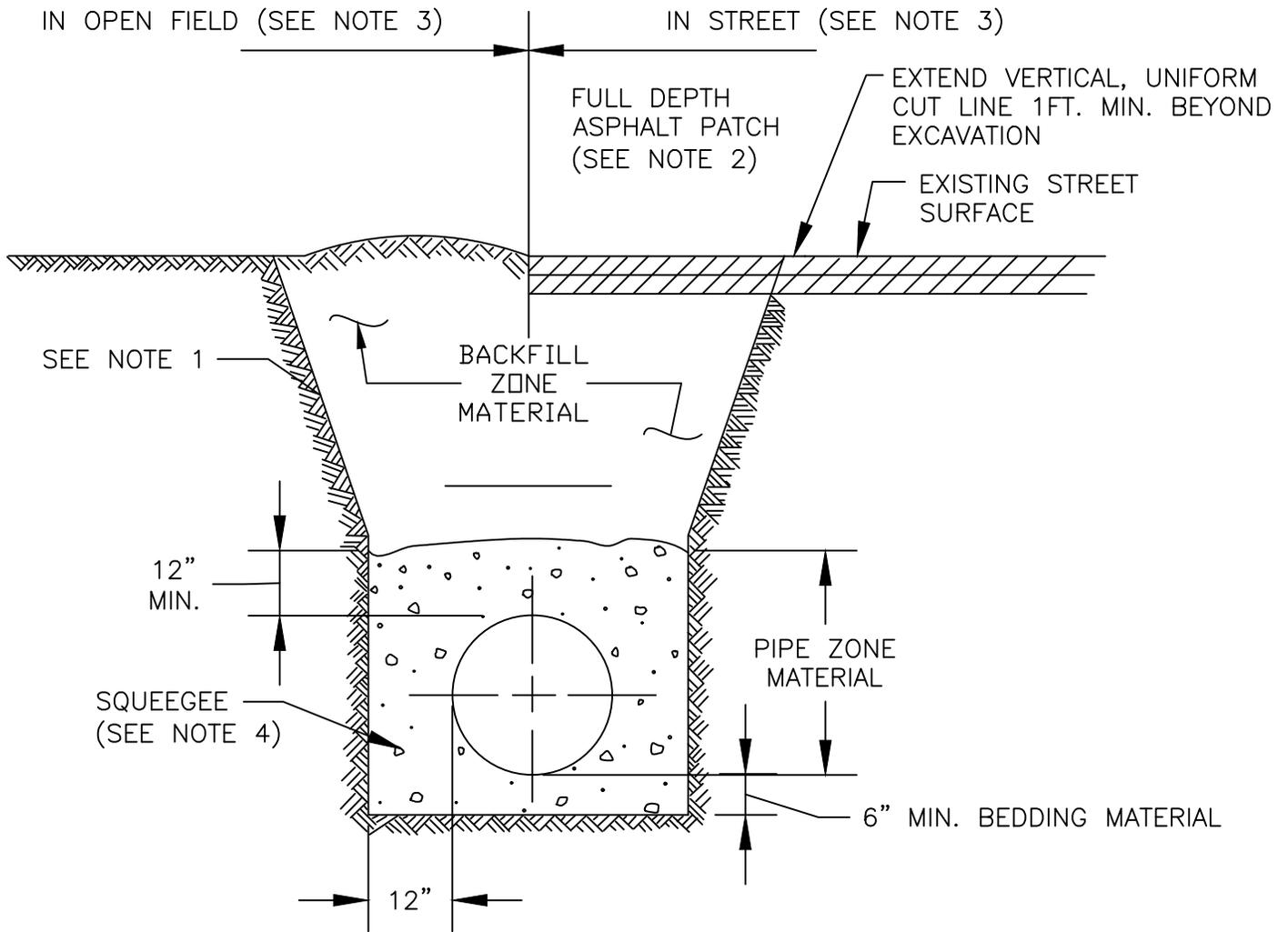
PLAN

NOTE:

VALVE BOX COLLAR LOCATION IS BASED UPON THE SURROUNDING SURFACE AS FOLLOWS:

- a. PAVED AREAS REFER TO IMPERVIOUS SURFACES (E.G., CONCRETE & ASPHALT)
- b. UNPAVED AREAS REFER TO PERVIOUS SURFACES (E.G., GRAVEL, LANDSCAPE, ROADBASE)

 Brighton SM	N.T.S. DATE 7/23/2024 REVISED BY JJ
	DRAWING NUMBER 600-28
VALVE BOX COLLAR	

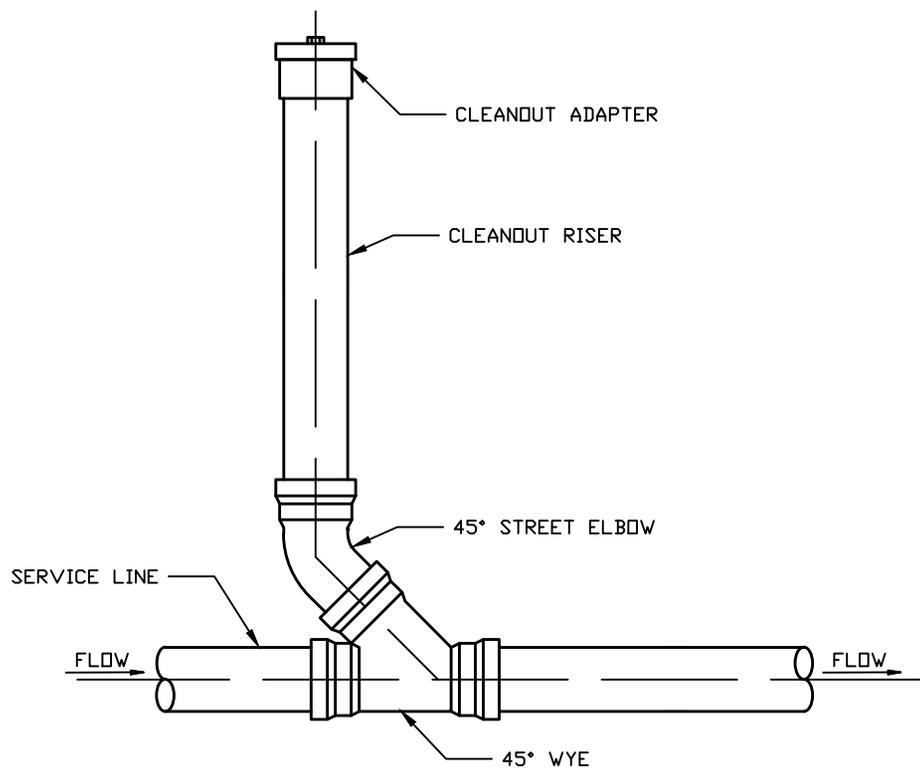


TYPICAL TRENCH SECTION

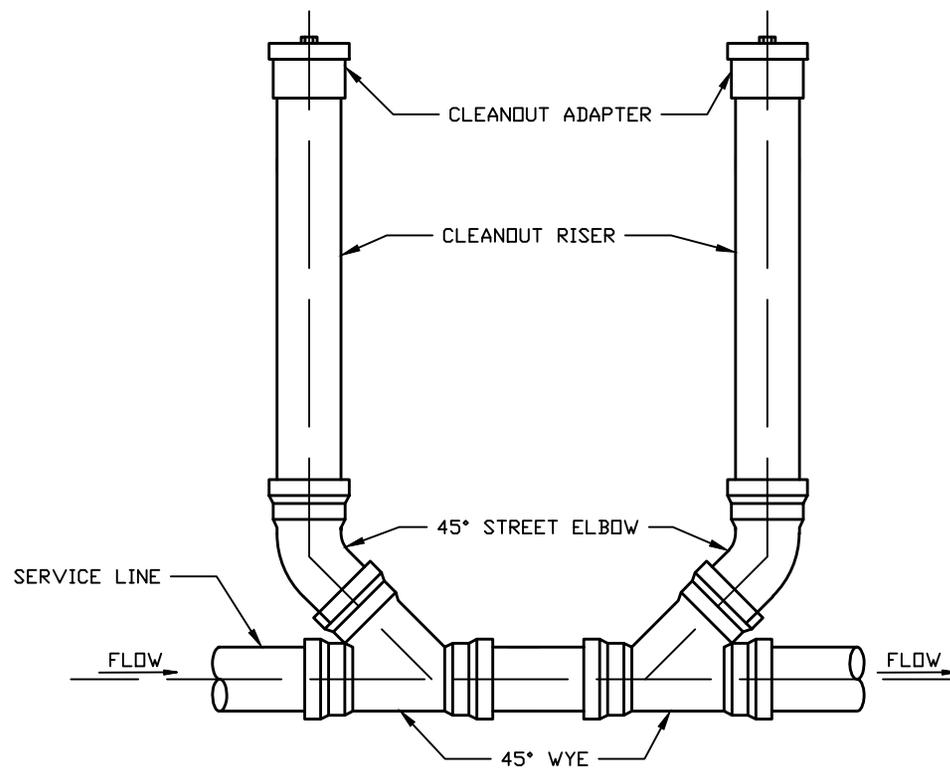
NOTES:

1. TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY D.S.H.A.
2. TRENCH CUTS IN PAVEMENT SHALL BE REPLACED PER BRIGHTON TRANSPORTATION STANDARDS AND SPECS.
3. COMPACTION IN TRENCH SHALL BE PERFORMED IN ACCORDANCE WITH THE TRENCH BACKFILL COMPACTION OF THIS SECTION.
4. SQUEEGEE SHALL CONFORM TO THE REQUIREMENTS OF THE TRENCH BACKFILL OF THIS SECTION.

 Brighton SM	DATE 10/11/2022 REVISED BY MA
	STANDARD UTILITIES TRENCH



SINGLE CLEANOUT



DOUBLE CLEANOUT

NOTES:

1. ALL FITTINGS SHALL BE GASKETED.
2. CLEAN OUTS TO BE SAME DIAMETER AS SERVICE LINES.



Brighton™

DATE 11/16/2017
REVISED BY SJC

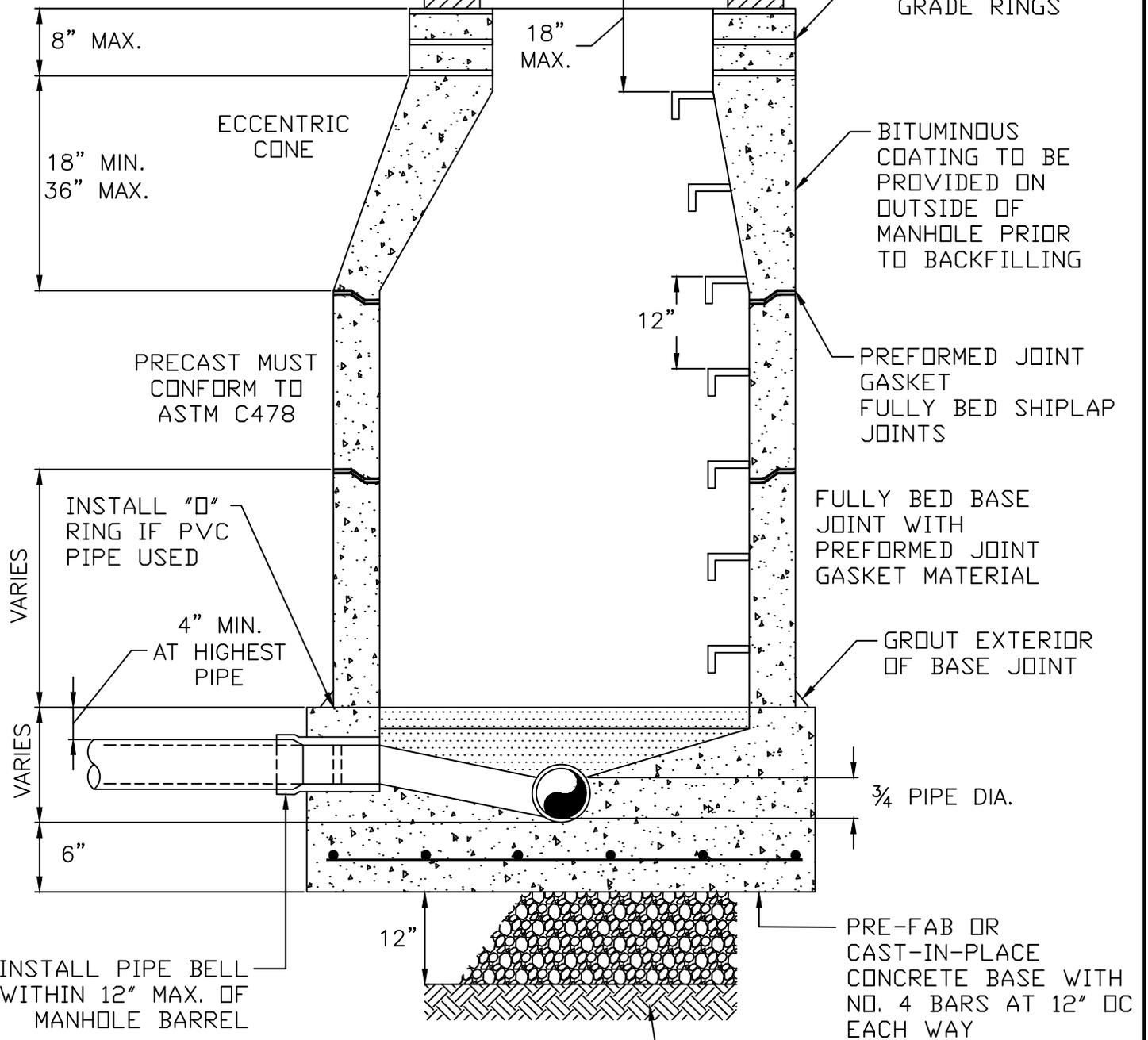
SINGLE AND DOUBLE
CLEANOUT

DRAWING
NUMBER

600-30

8" HIGH-400LB. CAST IRON RING AND COVER
 H₂O LOAD RATING
 "CITY OF BRIGHTON SEWER"
 ON COVER

RING AND LID PARALLEL AND
 FLUSH OR 1/2" BELOW STREET
 GRADE



NOTES:

1. a. 0.1' ELEVATION DROP REQUIRED THROUGH MANHOLE WITH NO DIRECTION CHANGE
- b. 0.2' ELEVATION DROP REQUIRED THROUGH MANHOLE WITH DIRECTION CHANGE
2. MH COATING SHALL BE USED IN AREAS OF GROUND WATER, DEPTHS ≥ 20', AND/OR THE FIRST CONNECTING MH TO THE METRO WATER RECOVERY INTERCEPTOR.

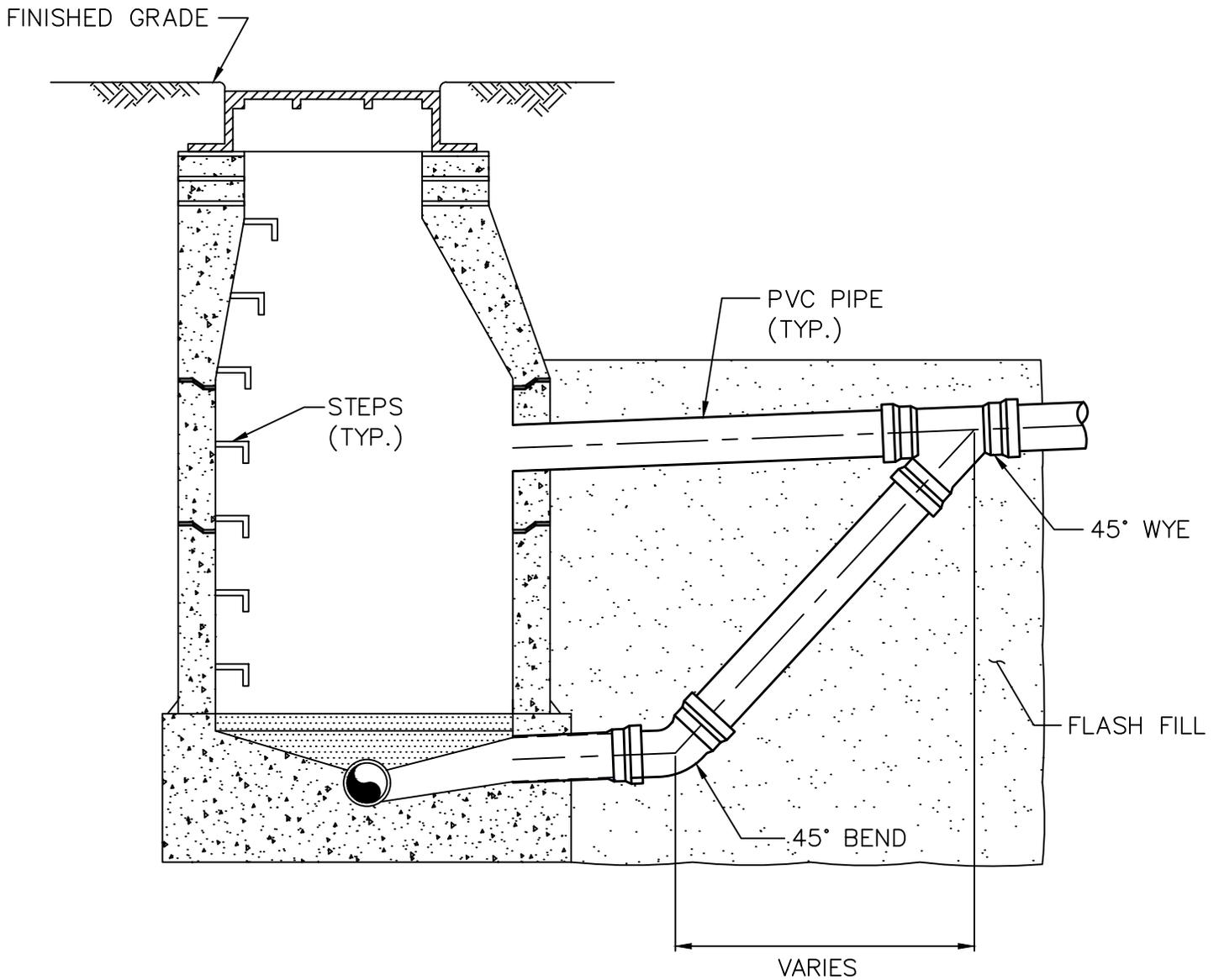


SANITARY SEWER
 MANHOLE

DATE 7/08/2025
 REVISED BY JJ

DRAWING
 NUMBER
 600-31

N.T.S.

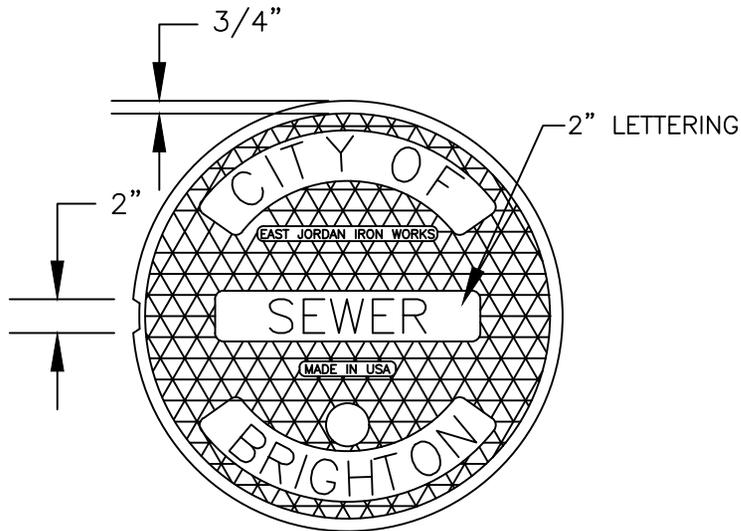


NOTES:

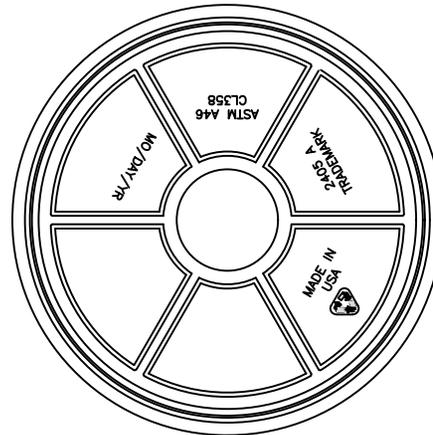
1. OUTSIDE DROP MH SHALL BE PROVIDED FOR A SEWER ENTERING A MH AT AN ELEVATION TWENTY-FOUR (24) INCHES OR MORE ABOVE THE MH INVERT OUT ELEVATION.
2. REFERENCE SANITARY SEWER MH DRAWING NO. 600-31.
3. SEAL JOINTS WITH RAMNEK OR CITY APPROVED EQUAL AND TAPE JOINTS OUTSIDE.

 Brighton SM	DATE 6/18/2024 REVISED BY JJ
	DRAWING NUMBER 600-31.1
STANDARD SANITARY SEWER DROP MH	

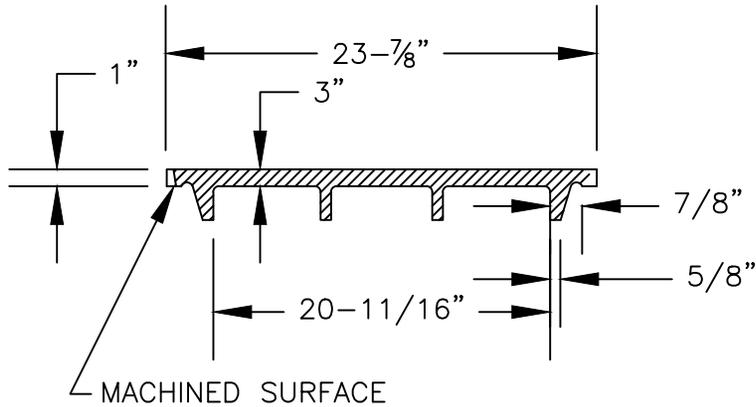
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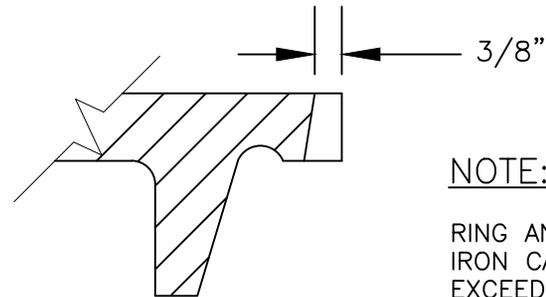
TOP OF COVER



BOTTOM OF COVER



SECTION OF COVER



PICKSLOT DETAIL

NOTE:

RING AND COVERS SHALL BE GRAY IRON CASTINGS MEETING OR EXCEEDING REQUIREMENTS OF ASTM A48 CLASS 30B AND COMPLY WITH H20 AND HS20 HIGHWAY LOADINGS.

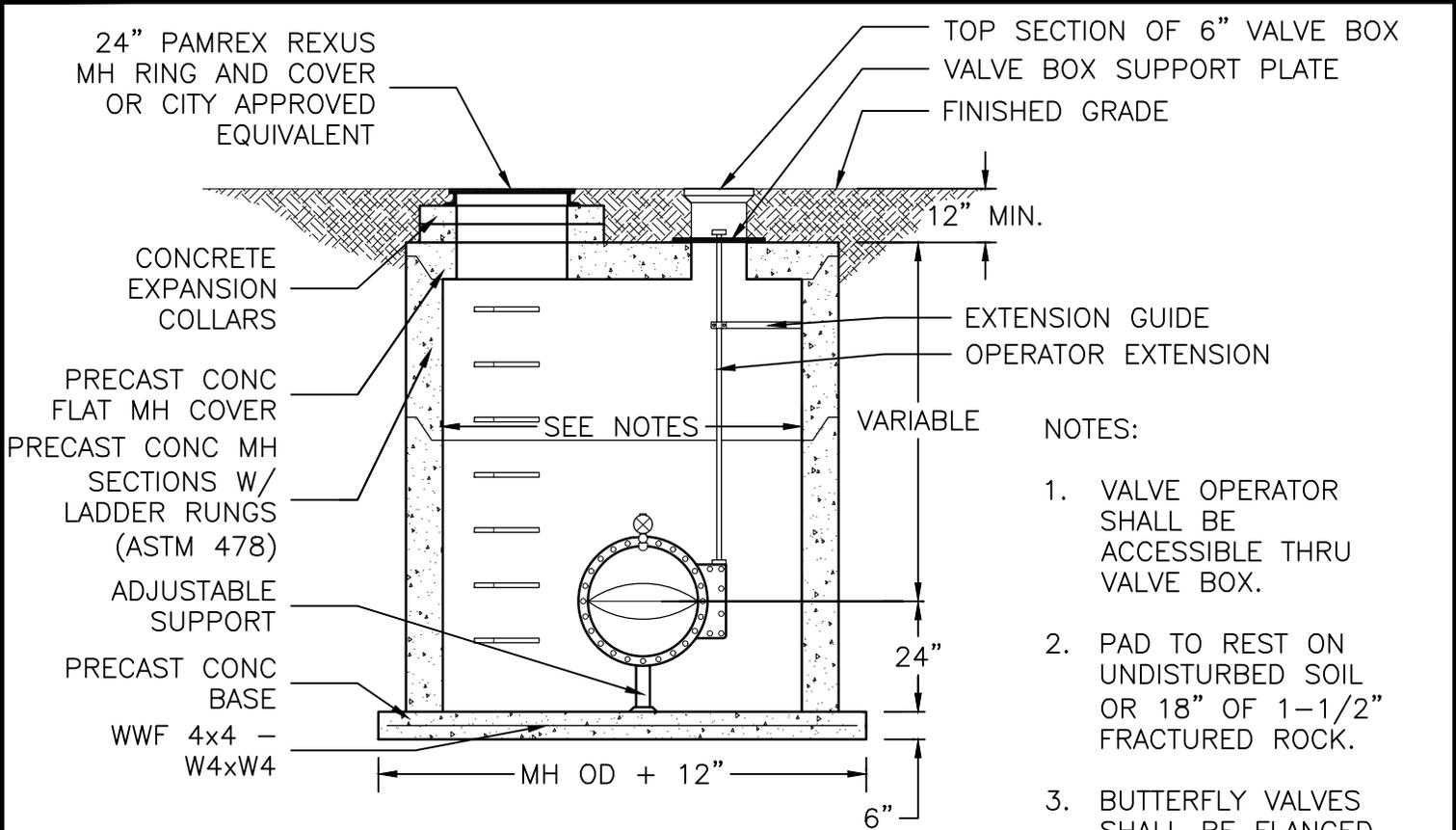


SANITARY SEWER
MANHOLE LID

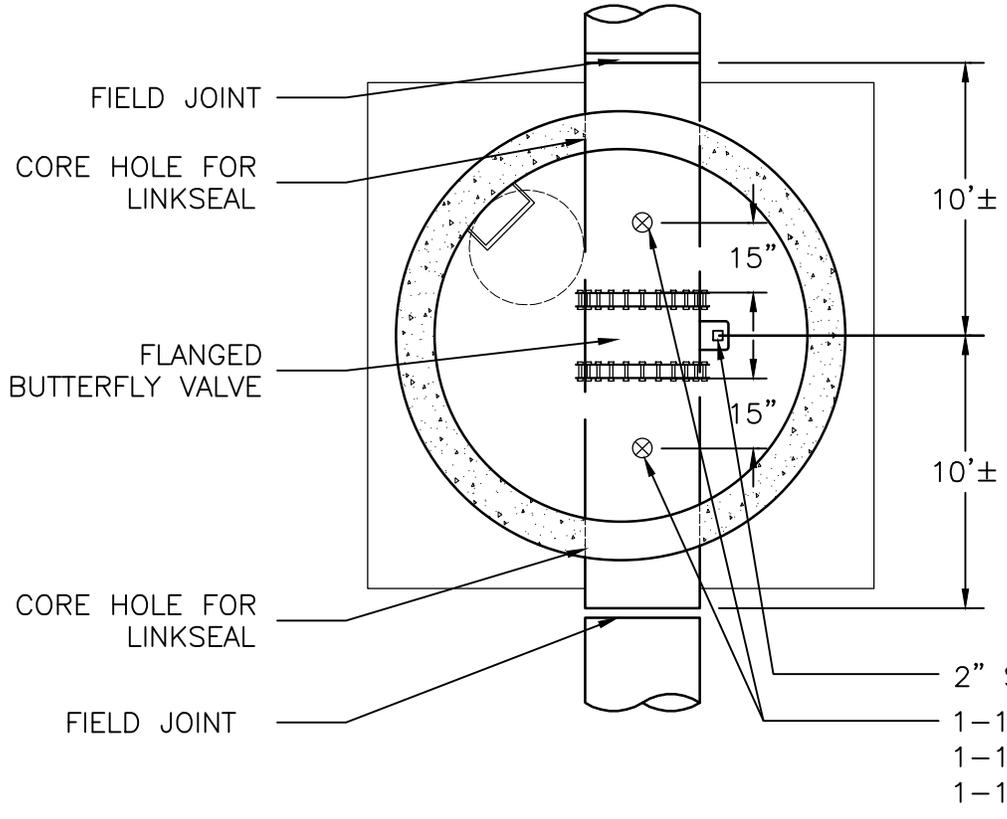
DATE 10/28/2022
REVISED BY MA

DRAWING
NUMBER

600-32

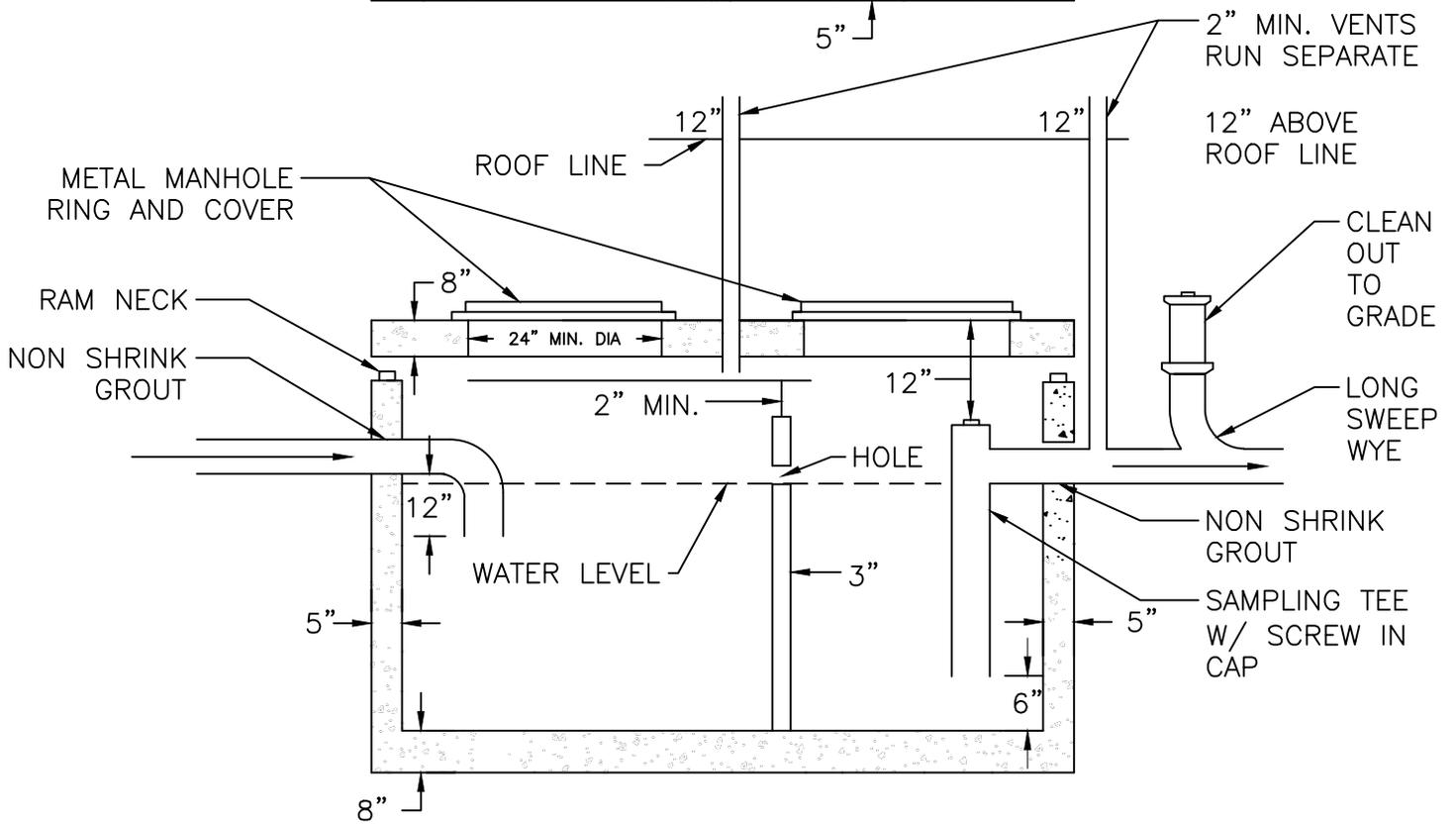
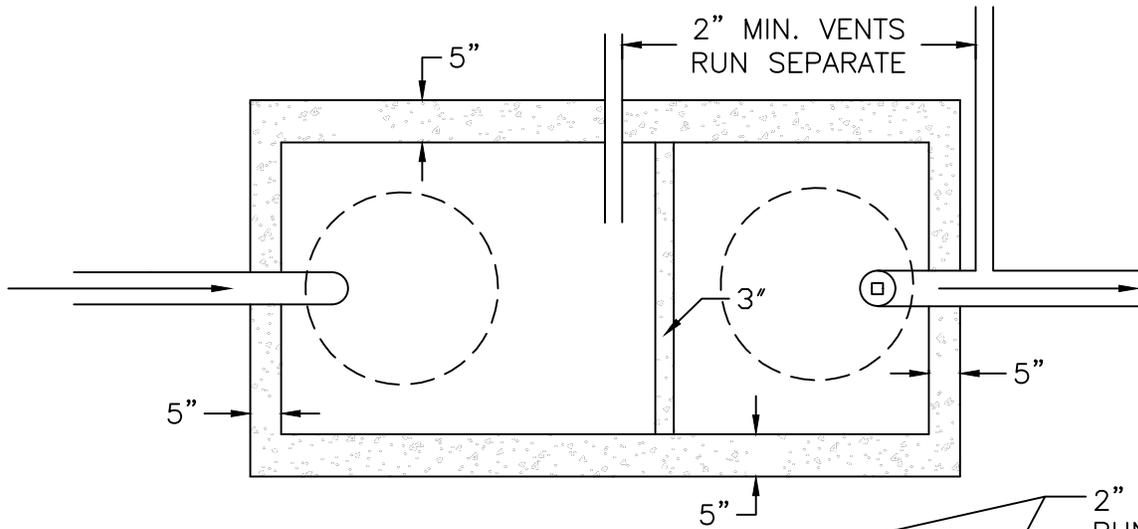


- NOTES:
1. VALVE OPERATOR SHALL BE ACCESSIBLE THRU VALVE BOX.
 2. PAD TO REST ON UNDISTURBED SOIL OR 18" OF 1-1/2" FRACTURED ROCK.
 3. BUTTERFLY VALVES SHALL BE FLANGED END.
 4. VALVE SHALL BE FITTED WITH A TWO-INCH SQUARE OPERATING NUT.
 5. VALVE SHALL OPEN TO THE LEFT (COUNTERCLOCKWISE).



PIPE ϕ	MANHOLE ϕ
16"-24"	96"
24"-36"	108"
>36"	CITY APP.

18" TO 42" BUTTERFLY VALVE & VAULT	DATE 7/17/2024 REVISED BY JJ
	DRAWING NUMBER 600-33



N.T.S.



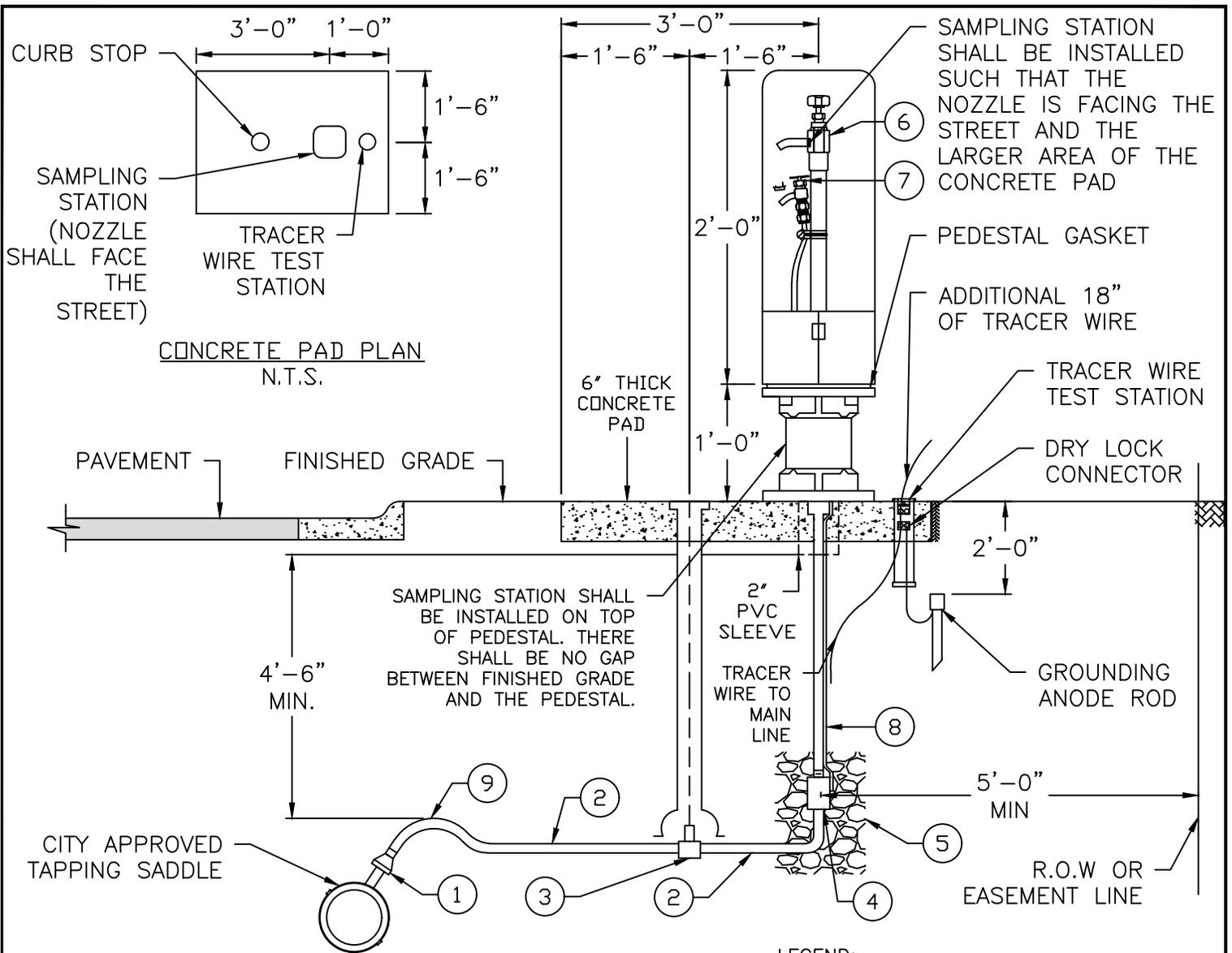
BrightonSM

SAND/OIL
INTERCEPTOR

DATE 7/23/2024
REVISED BY JJ

DRAWING
NUMBER

600-34



NOTES:

1. SERVICE LINE MUST HAVE MIN. 4'-6" COVER.
2. THERE SHALL NOT BE ANY CONNECTIONS MADE WITHIN 5'-0" OF THE SAMPLE STATION.
3. NO DISSIMILAR METALS WILL BE ALLOWED.
4. TRACER WIRE SHALL BE INSTALLED ALONG THE SERVICE LINE.
5. SAMPLING STATIONS SHALL BE LOCATED IN RIGHT-OF-WAY (R.O.W.) OR IN A POCKET EASEMENT. LOCATIONS SHALL BE CLOSELY COORDINATED WITH THE CITY.
6. BOLLARDS SHALL BE INSTALLED AT LOCATIONS WITH NO CURB AND GUTTER, ADJACENT TO TRAVELED WAYS, AND OUTSIDE OF CLEAR ZONE FOR TRAFFIC.
7. IN THE ABSENCE OF A TREE LAWN, THE SAMPLING STATION SHALL BE INSTALLED 2' (MIN.) BEHIND THE SIDEWALK.
8. MAINTAIN 2' MINIMUM HORIZONTAL CLEARANCE FROM THE SAMPLING STATION TO THE ROADWAY TRAVEL LANES, SIDEWALK, OR TRAIL.
9. SAMPLING STATIONS ARE INTENDED FOR POTABLE (DRINKING) WATER AND SHALL ONLY BE CONNECTED TO A POTABLE WATER MAIN.
10. INSTALLATION SHALL CONSIDER POSITIVE DRAINAGE AWAY FROM SAMPLING STATION AND A REDUCED EROSION POTENTIAL DOWNHILL FROM NOZZLE.

N.T.S.

 Brighton WATER SAMPLING STATION	DATE 8/13/2024 REVISED BY JJ
	DRAWING NUMBER 600-35