

NOTE:
 ALL WATER SERVICE CONNECTIONS UNDER
 ROADWAYS SHALL BE PLACED IN A CHASE PIPE.
 ALL WATER SERVICES WILL BE 1" OR LARGER



BAY COUNTY
 UTILITIES
 STANDARD
 DETAILS

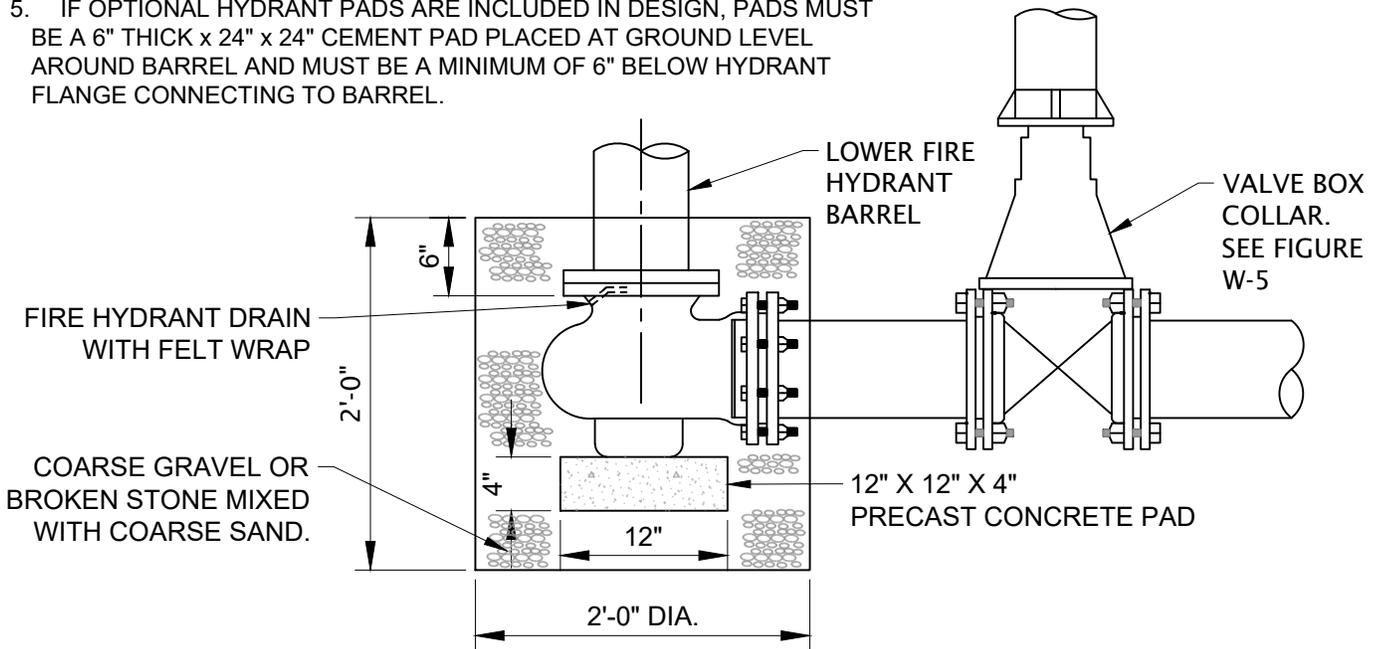
WATER SERVICE CONNECTION

DATE : MAY 2023
 SCALE : NTS

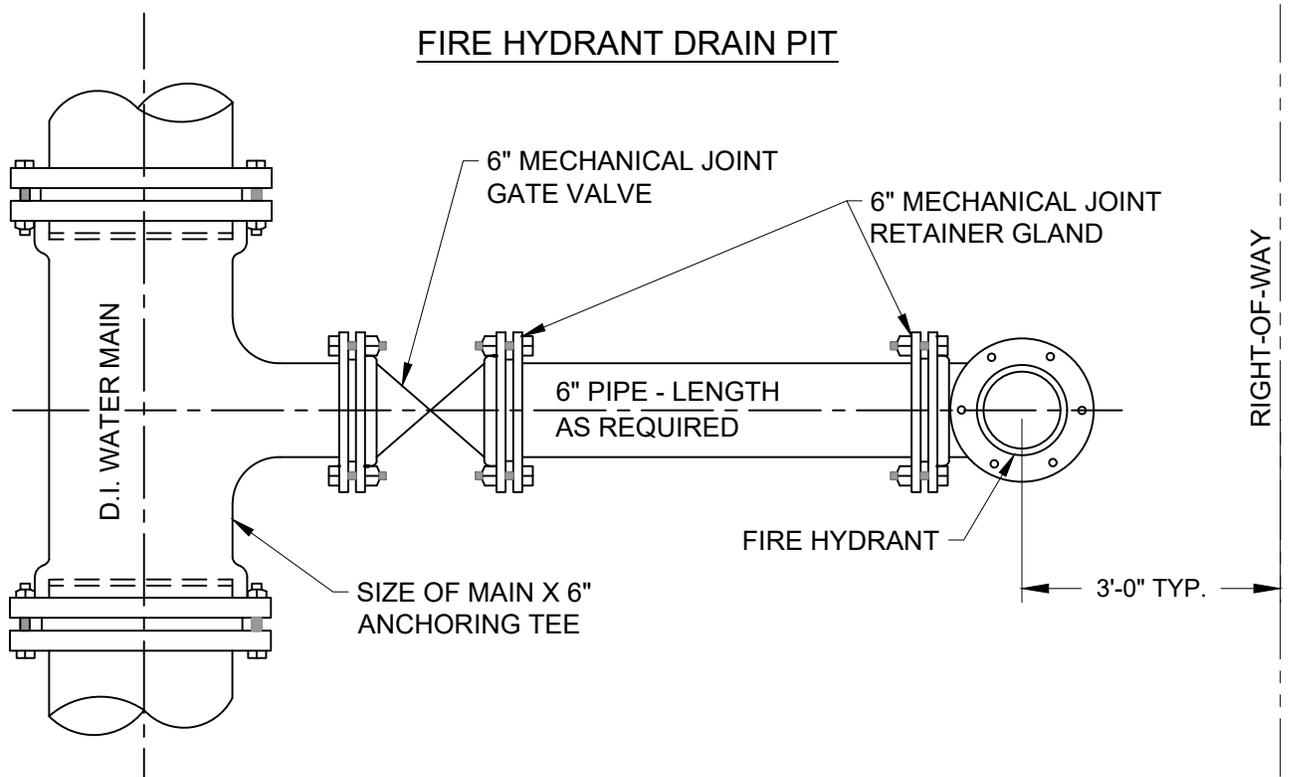
FIGURE : **W-1**

NOTES:

1. DO NOT PERMIT FIRE HYDRANT DRAIN PIT TO BE SUBMERGED IN ANY STREAM OR TO BE WITHIN 5' OF ANY SANITARY SEWER.
2. WRAP THE WEEPHOLE/DRAINHOLE WITH W FELT/MESH MATERIAL, PRIOR TO PLACING DRAIN BEDDING MATERIAL
3. IF HYDRANT SERVICE PASSES UNDER ROADWAY, THE HYDRANT ISOLATION VALVE SHALL BE LOCATED ON MAIN/FEED SIDE OF ROADWAY.
4. HYDRANT SHALL BE PLACED A MINIMUM OF 4' FROM CURB/PAVEMENT. HYDRANTS ARE PROHIBITED BETWEEN SIDEWALKS AND CURBS.
5. IF OPTIONAL HYDRANT PADS ARE INCLUDED IN DESIGN, PADS MUST BE A 6" THICK x 24" x 24" CEMENT PAD PLACED AT GROUND LEVEL AROUND BARREL AND MUST BE A MINIMUM OF 6" BELOW HYDRANT FLANGE CONNECTING TO BARREL.



FIRE HYDRANT DRAIN PIT



FIRE HYDRANT CONNECTION TO WATER MAIN

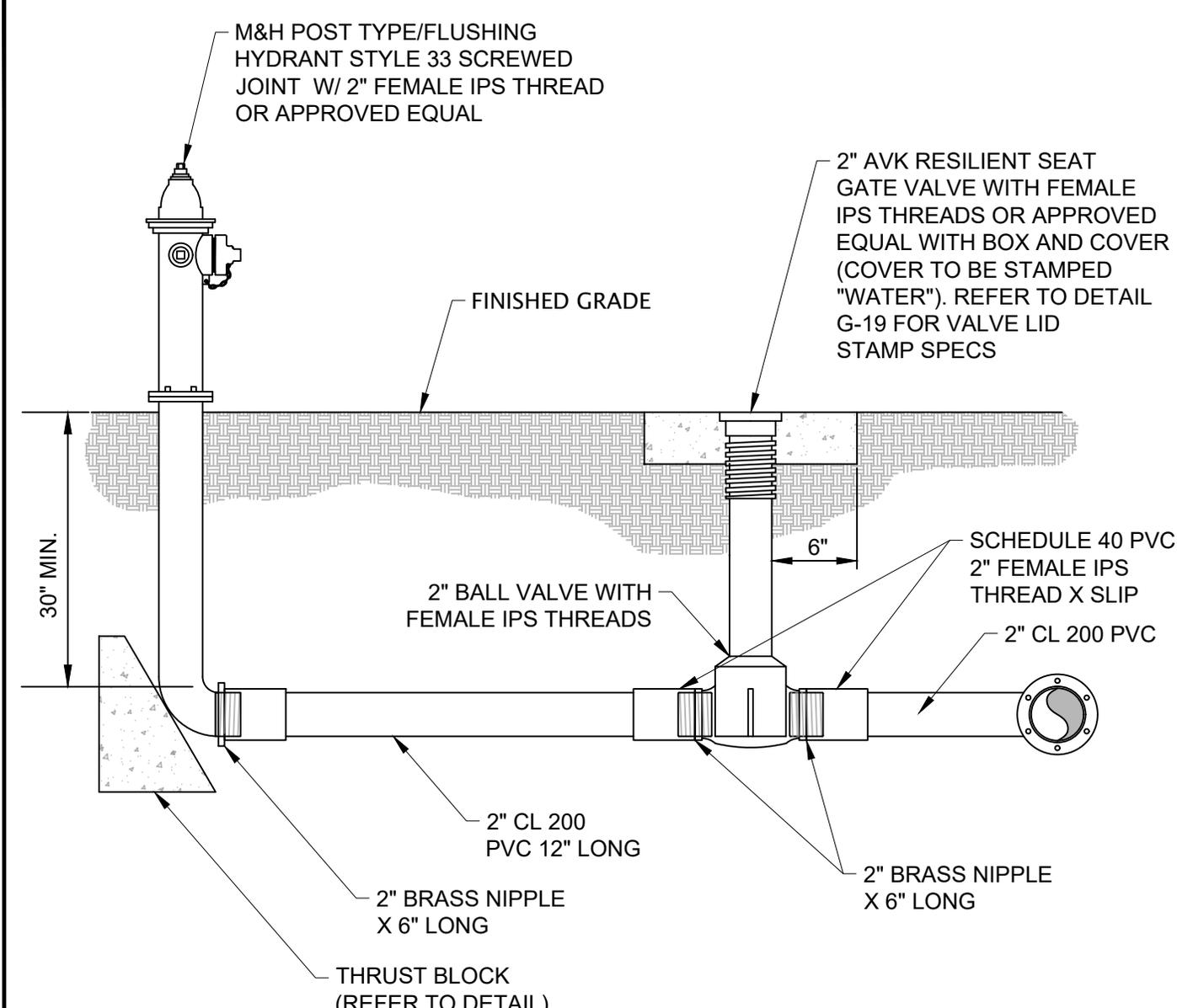


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FIRE HYDRANT ASSEMBLY

DATE : MAY 2023
SCALE : NTS

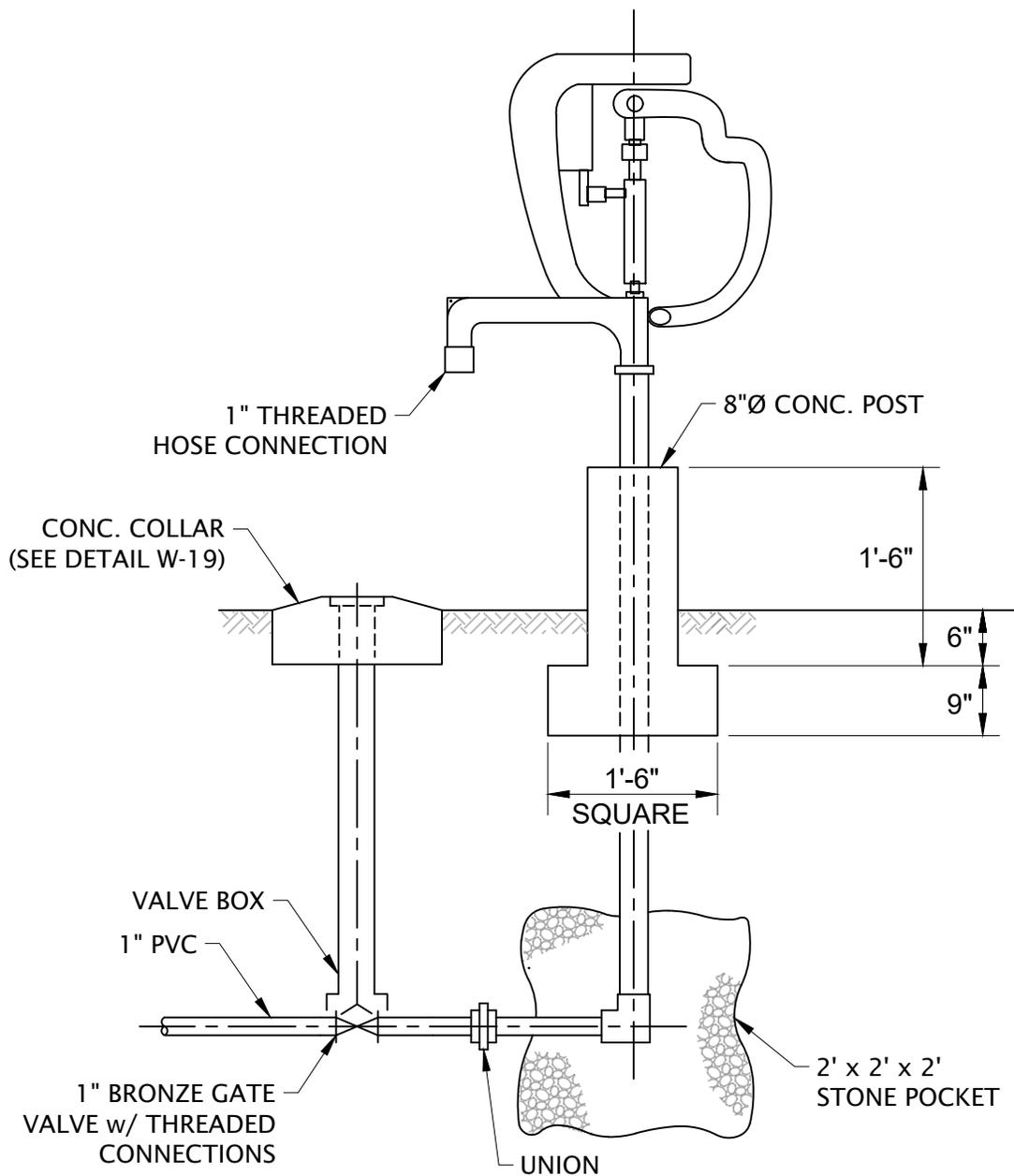
FIGURE : **W-2**



NOTES:

1. FLUSH HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK WITHIN R/W EXCEPT WHERE CONDITIONS AND OR REGULATION PROHIBIT. FLUSH HYDRANTS SHALL BE LOCATED WITHIN RIGHTS OF WAY OR UTILITY EASEMENTS.
2. ALL RODS AND ASSOCIATED HARDWARE SHALL BE STAINLESS STEEL.
3. ALL MECHANICAL JOINTS SHALL USE MEGA-LUG RESTRAINT TYPE RETAINING GLANDS. VALVE BOXES SHALL BE HEIGHT ADJUSTABLE.

 <p>BAY COUNTY UTILITIES STANDARD DETAILS</p>	<p>ABOVE GRADE FLUSHING HYDRANT</p>	<p>DATE : MAY 2023 SCALE : NTS</p>
		<p>FIGURE : W-3</p>



POST HYDRANT SHALL BE FROST-PROOF
 YARD HYDRANT OR EQUAL. INSTALL IN
 ACCORDANCE WITH MANUFACTURER'S
 RECOMMENDATIONS

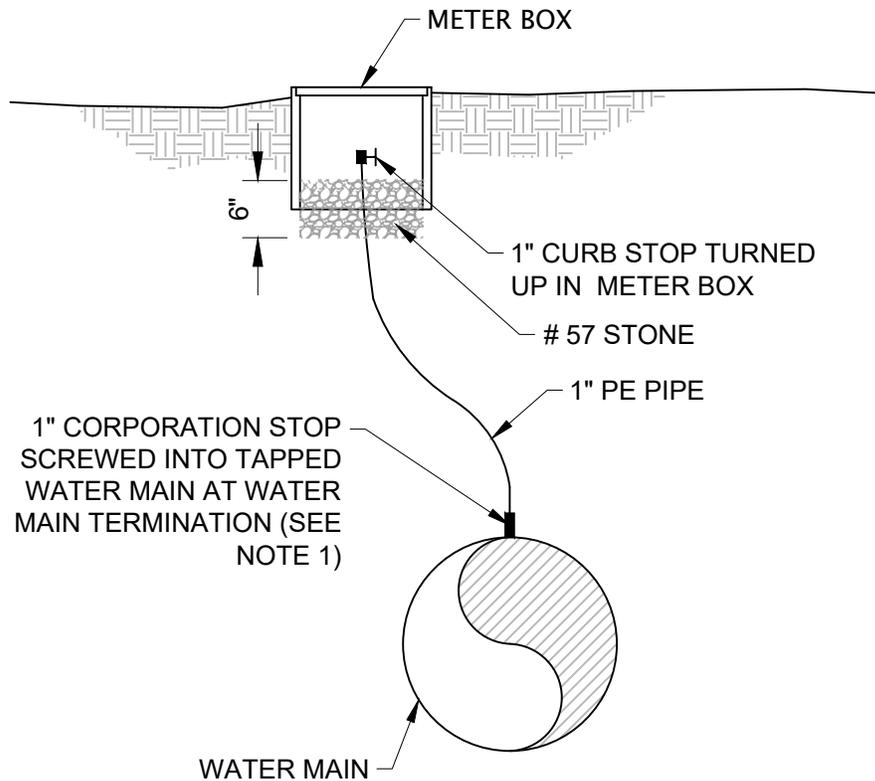


BAY COUNTY
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FROST-PROOF YARD HYDRANT

DATE : MAY 2023
 SCALE : NTS

FIGURE : **W-4**



NOTE 1: DOUBLE STRAP SERVICE CLAMP REQUIRED ON ALL CONNECTIONS TO PVC WATER MAIN.

ALL 1" THROUGH 2" TAPPING SADDLES SHALL BE SMITH BLAIR #317 OR JCM 406 OR APPROVED EQUAL



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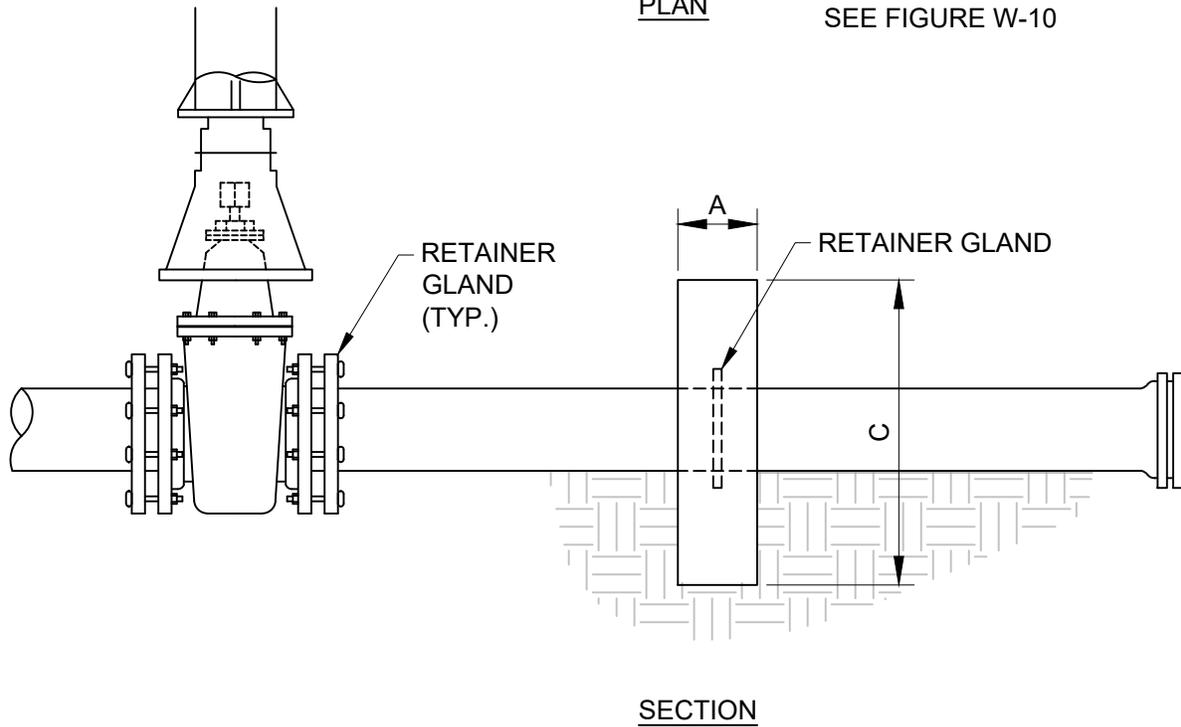
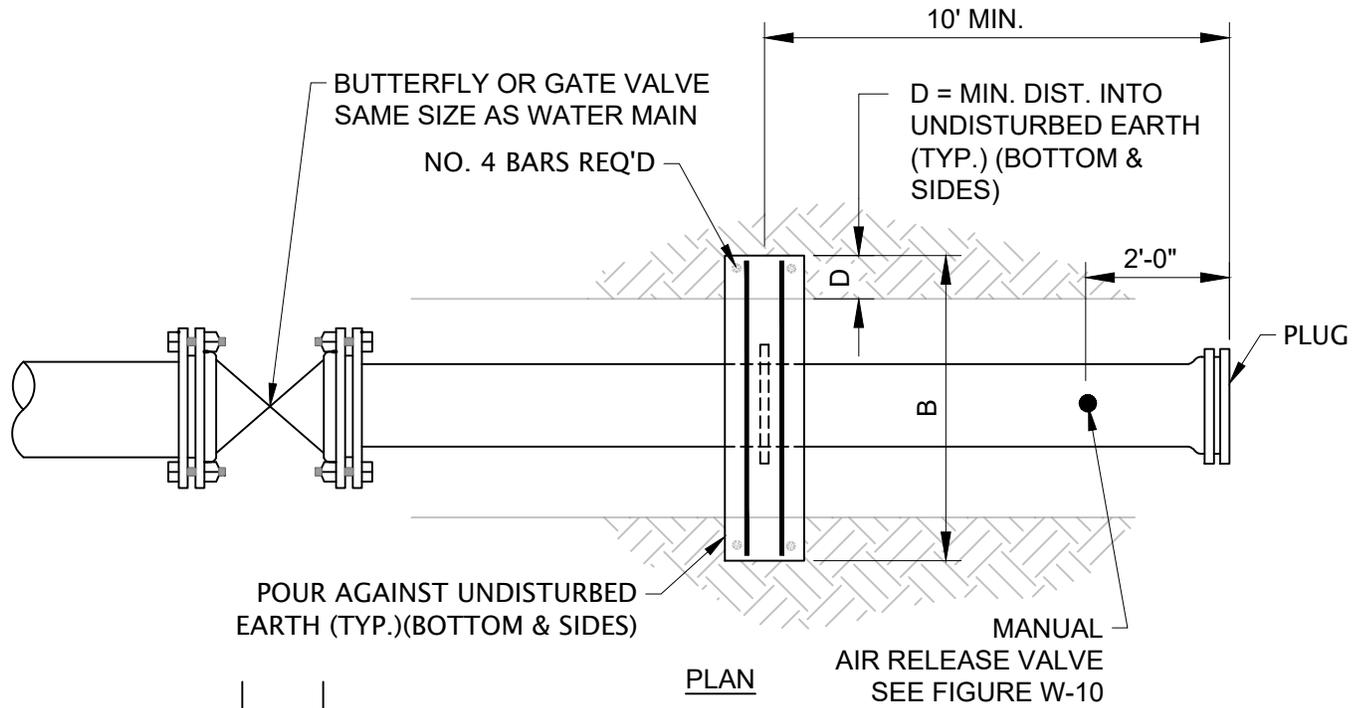
MANUAL AIR RELEASE VALVE
(2" OR SMALLER)

DATE : MAY 2023

SCALE : NTS

FIGURE :

W-5



MAIN DIA	CONCRETE COLLAR DIM.				REINFORCING STEEL
	A	B	C	D	
16"	1'-3"	6'-6"	6'-6"	1'-6"	#8 @ 12" O.C. E.W.E.F.
12"	1'-2"	5'-3"	5'-3"	1'-0"	#7 @ 12" O.C. E.W.E.F.
6" or 8"	1'-0"	4'-0"	4'-0"	0'-8"	#6 @ 12" O.C. E.W.E.F.

TEST PRESSURE: 150 P.S.I.
SOIL BEARING PRESSURE: 3000 P.S.F.

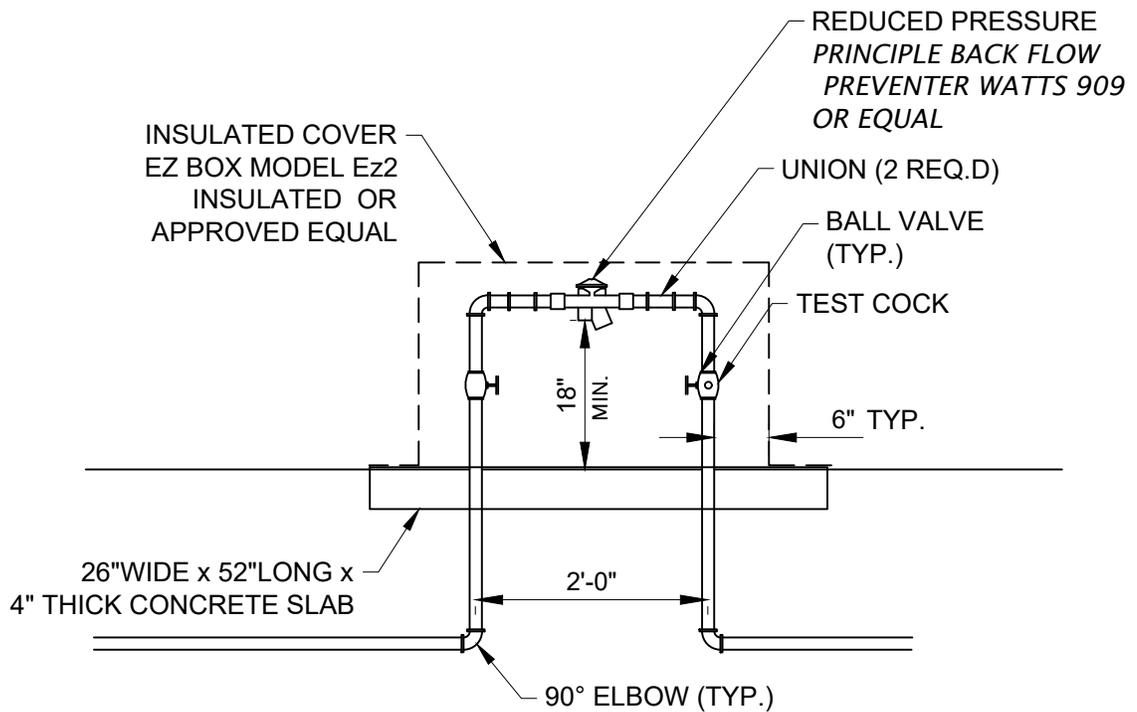


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WATER MAIN TERMINATION

DATE : MAY 2023
SCALE : NTS

FIGURE : **W-6**



NOTES:

1. ALL PIPE AND FITTINGS 2" AND SMALLER SHALL BE THREADED BRASS.
2. ALL ITEMS ABOVE GRADE SHALL HAVE ONE COAT OF APPROVED RUST RESISTANT BLUE ENAMEL PAINT.

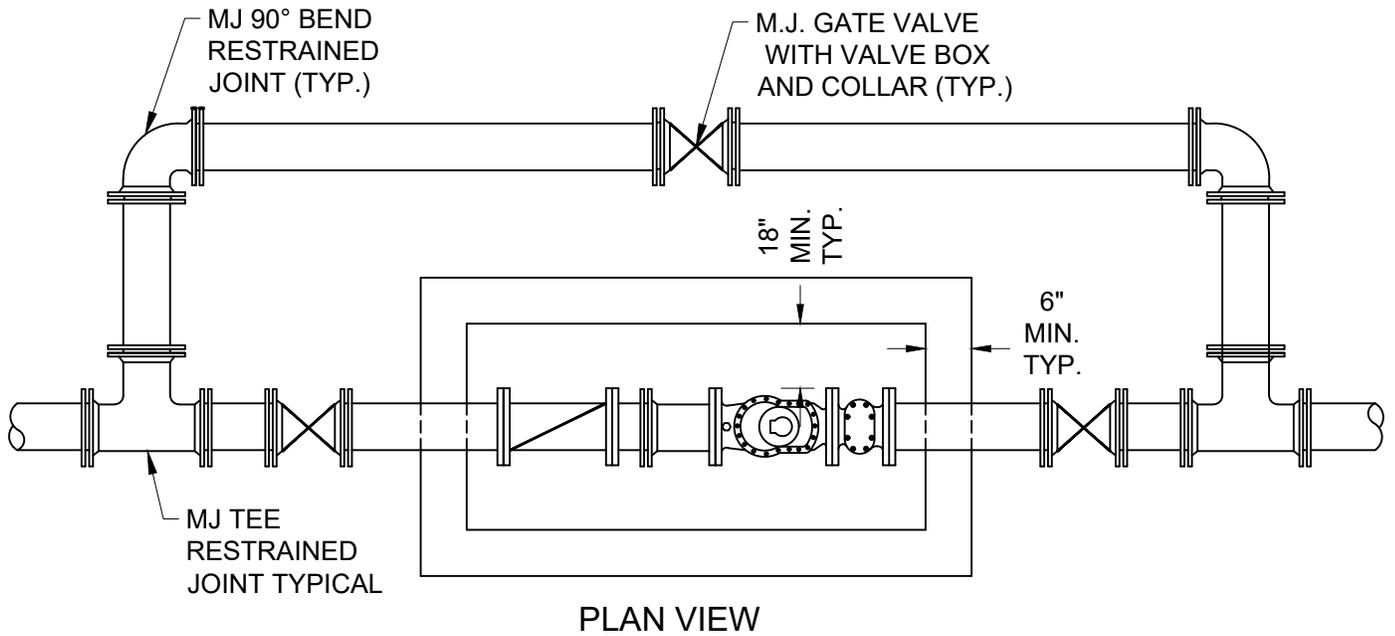


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1 1/2" AND 2"
BACKFLOW PREVENTERS

DATE : MAY 2023
SCALE : NTS

FIGURE : **W-7**



NOTES:

1. ALL EXPOSED METAL SHALL BE PAINTED WITH 2 COATS OF EXTERIOR ENAMEL PAINT.
2. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES WITH MINIMUM CLEARANCES AS SHOWN FOR 6" DIAMETER PIPE AND SMALLER. CLEARANCES SHALL INCREASE AS REQ'D FOR LARGER PIPE SIZES
3. VALVE VAULT SHALL HAVE SEALED FLOOR AND DRAIN.
4. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE OR NON-SHRINK GROUT.
5. VALVE VAULT COVERS SHALL BE ALUMINUM DOUBLE-COVER STYLE WITH 316 S.S. HARDWARE AND LOCK BRACKET AS APPROVED BY THE COUNTY.
6. ACCESS HATCH LOAD REQUIREMENTS WILL BE APPROVED BY BAY COUNTY ON A CASE BY CASE SCENARIO.
7. METER VAULT SHALL BE SIZED BASED ON METER FITTING CLEARANCE REQUIREMENTS AND THE MINIMUM CLEARANCE REQUIREMENTS SHOWN IN THIS DETAIL.
8. A SUMP PUMP WITH WEATHERPROOF ELECTRICAL PLUG SHALL BE PROVIDED IF WATER TABLE PRECLUDES THE USE OF GRAVEL FILLED BLOCKOUT.
9. ALL METERS WITH PIT PAD SHALL HAVE SENSUS PROTOCOL.
10. METER OPTIONS (TO BE APPROVED BY BAY COUNTY UTILITY SERVICES):
 - a. COMPOUND METERS OMNIC₂ OR APPROVED EQUIVALENT
 - b. ELECTROMAGNETIC METER EVOQ4 (BATTERY POWERED) OR APPROVED EQUIVALENT
 - c. ELECTROMAGNETIC METER ULTRAMAG MCCROMETER (AVAILABLE POWER SUPPLY) OR APPROVED EQUIVALENT.
12. ALL METERS SHALL BEGIN WITH 1000 U.S. GALLONS ON THE REGISTER.
13. ALL METERS SHALL BE APPROVED BY BAY COUNTY UTILITY SERVICES ON A CASE BY CASE BASIS. THE FACTORING ISSUES BEING:
 - a. LOCATION
 - b. SIZE
 - c. FLOWS
14. VAULT SIZE SHALL BE DETERMINED BY THE METER SIZE.
15. INSTALL CAST IRON STRAINER WITH ANY TYPE OF TURBINE, COMPOUND, PROPELLER, FOR ANY METER THAT HAS INTERNAL ROTATING OR SPINNING PARTS FOR MEASUREMENT.
16. ONLY ELECTROMAGNETIC FLOW METERS OR COMPOUND METERS WILL BE ALLOWED AND MUST BE APPROVED BY BAY COUNTY UTILITY SERVICES.
17. ALL PIPE CONNECTIONS INSIDE VAULTS SHALL BE FLANGE X FLANGE WITH STAINLESS STEEL HARDWARE.



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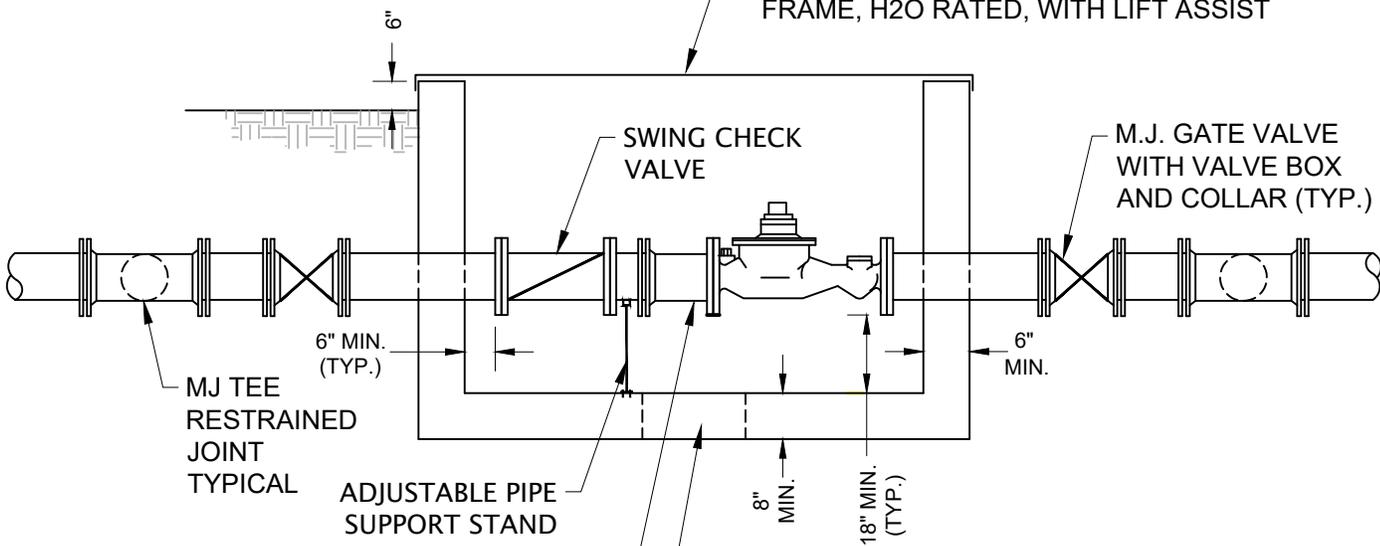
**AIR RELEASE VAULT, CHECK
VALVE VAULT, AND MASTER
WATER METER VAULT
(ALL 3" AND LARGER)**

DATE : MAY 2023
SCALE : NTS

FIGURE : **W-8**

SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO FABRICATION

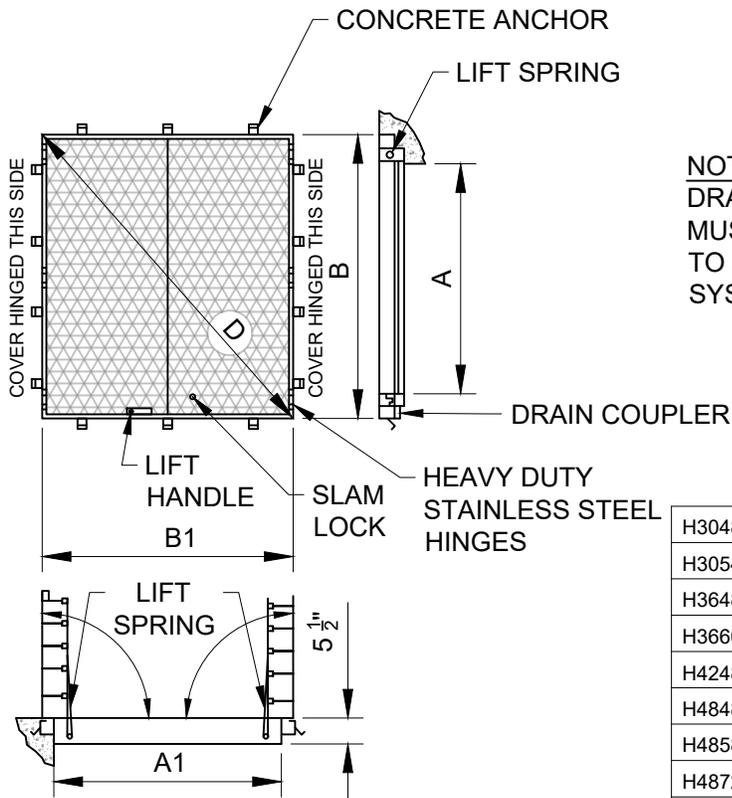
VAULT ACCESS COVERS SHALL BE 1/4" ALUMINUM DIAMOND PLATE, 2-PIECE DOUBLE-COVER STYLE WITH CHANNEL FRAME, H2O RATED, WITH LIFT ASSIST



DRESSER STYLE 131 DISMANTLING JOINT W/TEST PORT ON FLANGED SPOOL PIECE.
2" PORT ON METERS LESS THAN 10".
4" PORT ON METERS GREATER THAN 10".

18 x 18 BLOCKOUT FOR DRAINAGE FILL W/GRAVEL (IF WATER TABLE ALLOWS. SEE NOTE 8.)

SECTION VIEW



NOTE:
DRAIN COUPLER
MUST CONNECT
TO A DRAINAGE
SYSTEM

DOUBLE COVER STYLE

H30481901	2 COVER HATCH	30x48	42x54	3 1/2	68 7/16
H30541901	2 COVER HATCH	30x54	42x60	3 1/2	73 1/4
H36481901	2 COVER HATCH	36x48	48x54	5 1/2	72 1/4
H36601901	2 COVER HATCH	36x60	48x66	5 1/2	81 5/8
H42481901	2 COVER HATCH	42x48	54x54	5 1/2	76 3/8
H48481901	2 COVER HATCH	48x48	60x54	5 1/2	80 3/4
H48581901	2 COVER HATCH	48x54	60x60	5 1/2	84 7/8
H48721901	2 COVER HATCH	48x72	60x78	5 1/2	98 7/16
H60601901	2 COVER HATCH	60x60	72x66	5 1/2	97 11/16

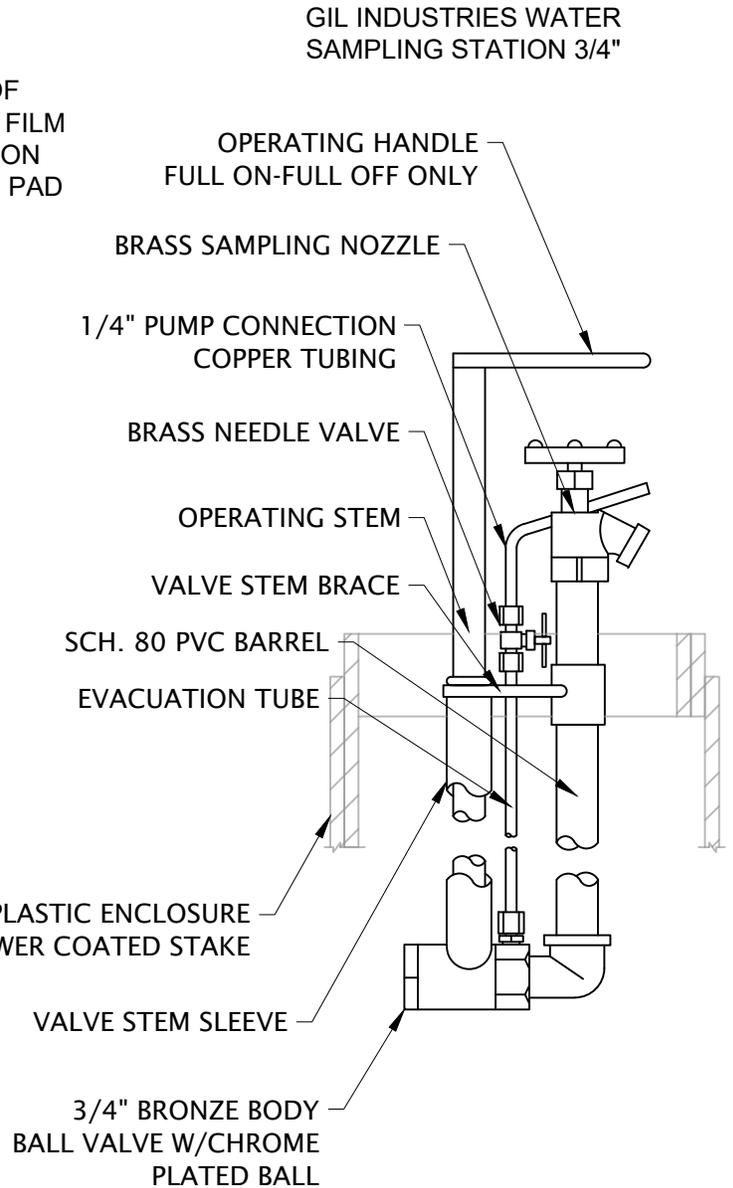
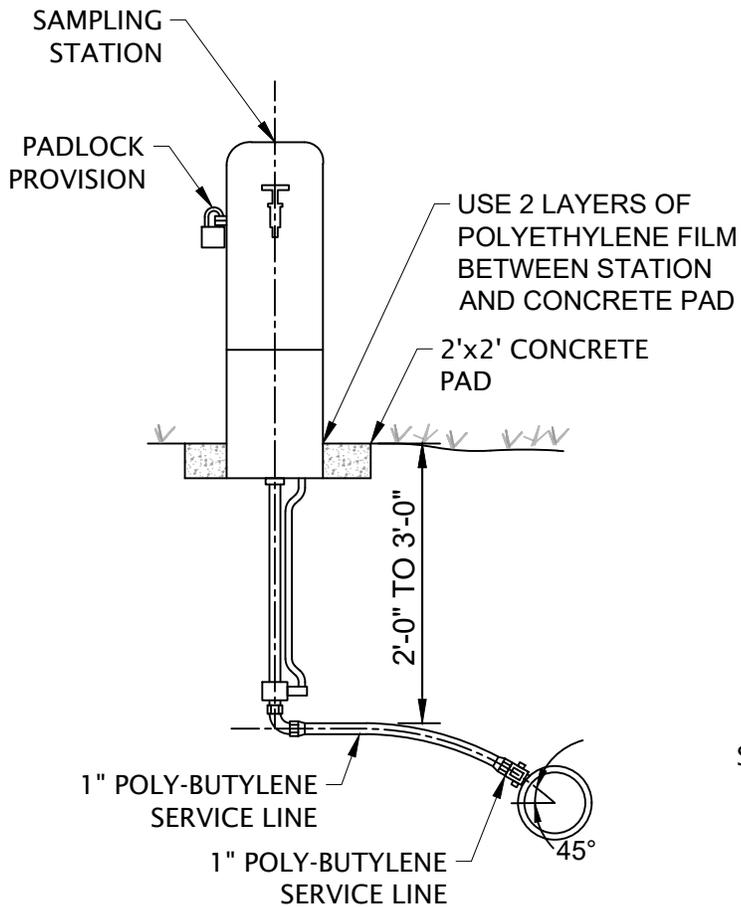


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**AIR RELEASE VAULT, CHECK
VALVE VAULT, AND MASTER
WATER METER VAULT
(ALL 3" AND LARGER)**

DATE : MAY 2023
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FIGURE : **W-9**



GIL INDUSTRIES EH101 SAMPLING STATION

NOTES:

1. GIL INDUSTRIES EH101 LEAD-FREE SAMPLING STATION
2. MUST INCLUDE LOCKABLE PLASTIC ENCLOSURE
3. 3' BURY DEPTH, EH-30LF
4. CONNECT TO 1" POLYBUTYLENE SERVICE LINE
5. BELOW-GRADE SHUT OFF VALVE FOR FREEZE PROTECTION



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WATER SAMPLING STATION

DATE : MAY 2023
SCALE : NTS

FIGURE : **W-10**