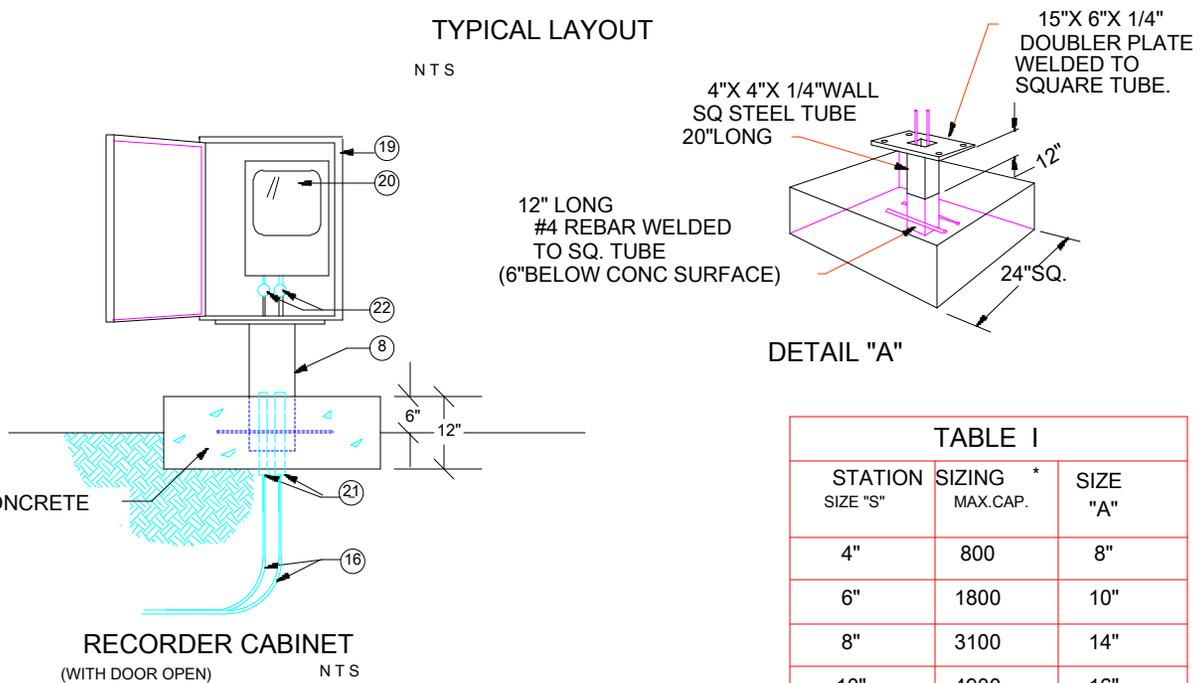


PRESSURE REDUCING STATION

TYPICAL LAYOUT

NTS



DETAIL "A"

TABLE I

STATION SIZE "S"	SIZING * MAX.CAP.	SIZE "A"
4"	800	8"
6"	1800	10"
8"	3100	14"
10"	4900	16"

NOTE:

THE ENGINEER OF DESIGN MUST SUBMIT TO DISTRICT, A SPECIFIC DESIGN BASED ON THIS LAYOUT FOR EACH INSTALLATION FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION AND SUBMITTALS FOR PIPING, GAUGES, AND CHART RECORDER.

STATION SIZE REFERS TO NOMINAL DIAMETER OF THE PRESSURE REDUCING VALVE

REFER TO STANDARD DRAWING NO. W-1567 FOR MECHANICAL MATERIALS LIST AND GENERAL NOTES



APPROVED DATE: January 01, 2011

Joseph Penzly

DIRECTOR OF ENGINEERING

STANDARD DRAWING
PRESSURE REDUCING STATION
TYPE "C"
(TYPICAL LAYOUT)

STD. DWG. NO.

W-1566
 1 OF 3

GENERAL NOTES

1. THE REQUIRED PRESSURE REDUCING STATION CAPACITY AND SIZE SHALL BE DETERMINED BY DISTRICT.
2. ALL MATERIALS, MATERIALS TESTING AND INSPECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DISTRICT STANDARDS. FAILURE TO MEET THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION.
3. DISTRICT SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL SHORE ALL EXCAVATIONS IN ACCORDANCE WITH CAL-OSHA REQUIREMENTS.
5. UNLESS OTHERWISE APPROVED BY DISTRICT, VAULTS AND CONTROL EQUIPMENT SHALL BE LOCATED TO SET BEHIND EXISTING OR FUTURE CURBS.
6. DETAILS OF VAULTS FOR ALL PRV STATION SIZES SHALL BE SUBMITTED TO DISTRICT FOR APPROVAL.
7. THE DESIGN SHOWN IS TYPICAL, THE DISTRICT WILL INDICATE WHICH FEATURES SHALL BE MODIFIED.
8. ALL STD. PIPING AND FITTINGS SHALL BE EPOXY LINED WITH 10 MILS MIN. (2-COATS, 5 MILS EA.) OF KEYSITE 750 OR APPROVED EQUAL.
9. ALL EXPOSED PIPING SHALL BE PRIMED AND FIELD PAINTED PER DISTRICT SPECIFICATION, ALL BURIED PIPING, SHALL BE CEMENT MORTAR COATED (CMC) OR ASPHALT WRAPPED (AW) PER DISTRICT SPECIFICATION.
10. ONE (1) PIPE SUPPORT SHALL BE FURNISHED AND INSTALLED UNDER LINES A, WITHIN PRV VAULT.
11. PRESSURE CLASS TO BE DETERMINED BY THE DISTRICT.
12. INSIDE THE VAULT CLEARANCE FROM TOP OF VALVE TO BOTTOM OF VAULT LID SHALL BE GREATER THAN OR EQUAL TO 6".
13. CLEARANCE BETWEEN PIPE/VALVE BOTTOM AND INSIDE VAULT FLOOR SHALL BE GREATER THAN OR EQUAL TO 18".
14. LINE "A" SHALL BE LEVEL THROUGH THE VAULT.
15. ALL EXPOSED PIPING INSIDE VAULT SHALL BE PAINTED WITH 2 COATS (8 MILS MIN.) OF "DESERT SANDS" (TNE MEC AH52) OVER AND APPROVED ALKYD RUST INHIBITIVE PRIMER.

MECHANICAL MATERIALS LIST

- ① PRESSURE REDUCING, PRESSURE SUSTAINING, CHECK VALVE FLANGED ENDS, STAINLESS STEEL TRIM, EPOXY LINED, POSITION INDICATOR, CLA-VAL MODEL 92G-02 BKC-X101.
- ② "A" SIZE 90° BEND (CML/CMC, 10 GA)
- ③ "A" SIZE CML/CMC WSP (10 GA)
- ④ "S" SIZE WELD NECK FLANGE, 150# (EPOXY LINED)
- ⑤ "A" SIZE X "S" SIZE ECCENTRIC REDUCER, STD WT, INSTALLED TOP FLAT ("A" SIZE END TO BE VIC GROOVED, EPOXY LINED).
- ⑥ "A" SIZE SLIP-ON FLANGE, 150#
- ⑦ "A" SIZE GROOVE X FLANGE ADAPTER, VICTAULIC STYLE 741 OR 742.
- ⑧ ELECTRICAL CABINET SUPPORT PER DETAIL "A".
- ⑨ "A" SIZE FLANGED RS GATE VALVE (12" DIA AND UNDER) OR FLANGED BUTTERFLY VALVE (OVER 12" DIA)
- ⑩ "A" SIZE SIDE OUTLET W/WRAPPER REINFORCEMENT PER AWWA M-11 (CML/CMC, 10 GA).
- ⑪ "A" SIZE SLIP-ON FLANGE, 150#, SHIPPED LOOSE.



APPROVED DATE: January 01, 2011

Joseph Kennedy

DIRECTOR OF ENGINEERING

STANDARD DRAWING
PRESSURE REDUCING STATION
TYPE "C"
(GEN NOTES AND MAT LIST)

STD. DWG.
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MECHANICAL MATERIALS LIST (CONT.)

- 12 "A" SIZE FLANGED SIDE OUTLET W/WRAPPER REINF. PER AWWA M-11 (CML/CMC, 10 GA).
- 13 MAINLINE SIZE FLANGED RS GATE VALVE (12"Ø AND UNDER) OR FLANGED BUTTERFLY VALVE (OVER 12"Ø).
- 14 MAINLINE SIZE SLIP-ON FLANGE (SHIP LOOSE).
- 15 1"Ø 3000# COUPLING W/1"Ø CORP STOP AND BRONZE REDUCER BUSHING TO 1/2"Ø BRASS COMPRESSION COUPLING.
- 16 1/2"Ø TYPE K COPPER TUBING, PRESSURE SENSING LINE TO RECORDER CABINET.
- 17 5'L X 4'W X 6'D PRECAST CONCRETE VAULT W/BOTTOM SECTION, FULL OPEN TORSION HINGED, STEEL PARKWAY LID, (TRAFFIC LID MAY BE ADDED AT THE OPTION OF THE DISTRICT) SUITABLE FOR PRESSURE REDUCING STATION SIZE 4" AND 6", LARGER SIZE STATIONS SHALL BE SIZED BASED UPON THE MIN. CLEARANCE DIMENSIONS INDICATED ON THE PRV 'TYPICAL LAYOUT' (WMWD STD W-1566) BOTTOM SECTION SHALL HAVE 6"Ø DRAIN HOLE AND BE SET ON MINIMUM 6" THICK BED OF 1" GRAVEL.
- 18 3/4"Ø 3000# COUPLING WITH 3/4"Ø CORP STOP (MUELLER), BRONZE REDUCER BUSHING AND 4" FACE LIQUID FILLED PRESSURE GAUGE, WIKA 213.40 LM, 0-200 PSI DOWN STREAM AND 0-300 PSI UPSTREAM.
- 19 30" X 20" X 8" NEMA TYPE 4 SINGLE DOOR ENCLOSURE WITH PANEL, AS MANUFACTURED BY HOFFMAN ENGINEERING. CAT. NO. A-L30H2008LP, PAINT PER W.M.W.D. INSPECTOR.
- 20 12" DIA. CHART, 2 PEN PRESSURE RECORDER, MECHANICAL CHART DRIVE MODEL NO. 50012-10GA AS MANUFACTURED BY BRISTOL BABCOCK INC.
- 21 1 1/2" DIA. RIGID STEEL CONDUIT.
- 22 1/2" DIA. ALL BRONZE BALL VALVE, 600 PSI WOG, APOLLO MODEL 70-100. USE APPROPRIATE BRASS COMPRESSION FITTINGS FOR COPPER TUBING AND 600 PSI STAINLESS STEEL BRAID FLEX HOSES WITH THREADED ENDS BETWEEN BALL VALVES AND CHART RECORDER CONNECTION.



APPROVED DATE: January 01, 2011

Joseph Beaudry

DIRECTOR OF ENGINEERING

STANDARD DRAWING
PRESSURE REDUCING STATION
TYPE "C"
(GEN NOTES AND MAT LIST)

STD. DWG.
NO.

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