

INTERIOR PLAN  
NTS

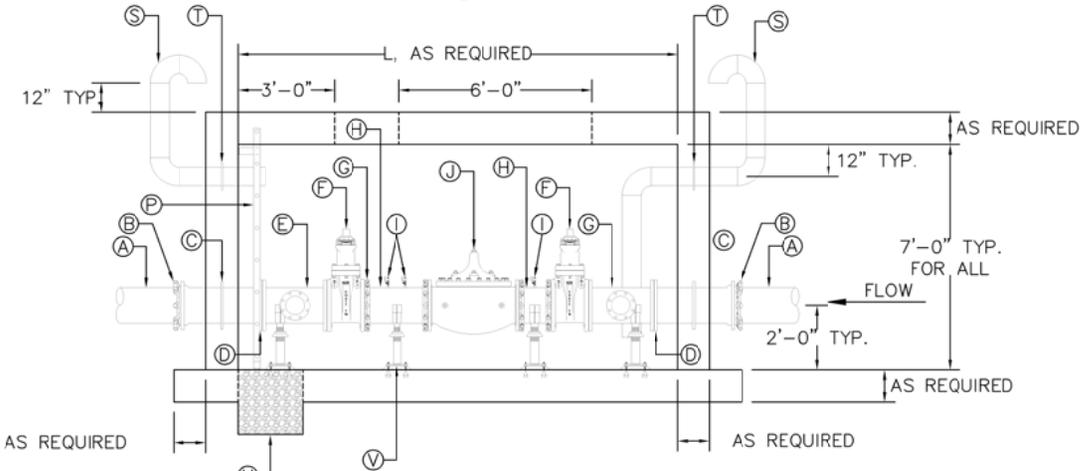
VAULT INTERIOR SPACE REQUIREMENTS		
LARGE VALVE SIZE	INSIDE WIDTH	INSIDE LENGTH
6	8'-0"	11'-8"
8	8'-2"	12'-0"
10	8'-4"	13'-0"
12	8'-6"	13'-8"
14	8'-8"	14'-9"
16	8'-10"	15'-4"

**GENERAL CONSTRUCTION NOTES:**

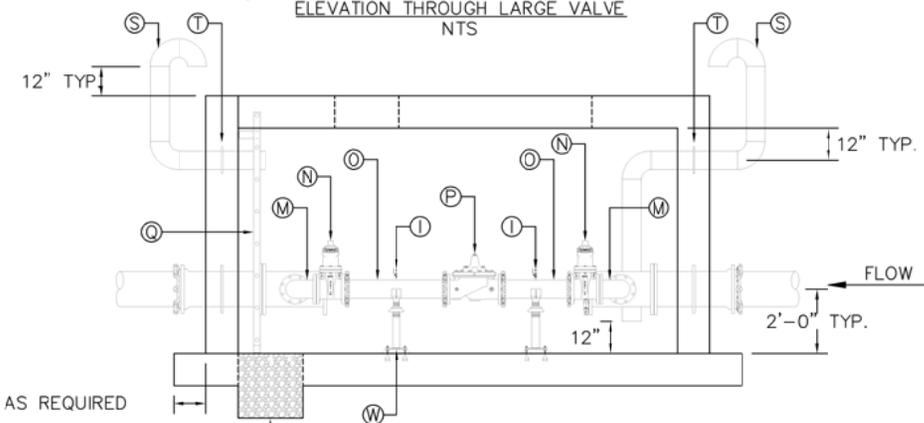
1. GENERAL VAULT REQUIREMENTS SHOWN SHALL APPLY TO PRESSURE REDUCING VALVES (PRVs) AND ANY OTHER APPLICATION AS DIRECTED BY THE CITY OF RIO RANCHO.
2. ALL VAULTS SHALL BE PRECAST CONCRETE WITH H-20-RATED CONCRETE LIDS AND ACCESS COVERS.
3. PRV LOCATION: FINAL DESIGN AND LAYOUT SHALL BE APPROVED BY THE CITY OF RIO RANCHO TO CONFORM WITH SPECIFIC SYSTEM AND SITE REQUIREMENTS.
4. 6" VENT PIPING SHALL BE ROUTED SUCH THAT THE ABOVE GROUND GOOSENECK AND INSECT SCREEN ARE LOCATED OUT OF VEHICULAR OR PEDESTRIAN TRAFFIC AREAS.
5. THE SMALL (LOW FLOW) PRV LINE SHALL BE ONE-HALF THE DIAMETER OF THE MAIN LINE OR AS DIRECTED BY THE CITY OF RIO RANCHO.
6. THE LARGE (HIGH FLOW) VALVE SHALL HAVE PILOT CONTROL SYSTEM AND BE SET AT 45 POUNDS PER SQUARE INCH OR AS DIRECTED BY THE CITY OF RIO RANCHO.
7. THE SMALL (LOW FLOW) VALVE SHALL HAVE PILOT CONTROL SYSTEM AND BE SET AT 50 PSI OR AS DIRECTED BY THE CITY OF RIO RANCHO.
8. AN EXTERNAL BYPASS AROUND THE VAULT SHALL ONLY BE REQUIRED IF DIRECTED BY THE CITY OF RIO RANCHO.

**KEYED NOTES:**

- A. INLET AND OUTLET MAIN LINE PIPING. SIZE AND MATERIAL AS SHOWN ON THE PLANS
- B. RESTRAINING GLAND, SIZE AS SHOWN ON THE PLANS.
- C. DUCTILE IRON WALL SLEEVE WITH THRUST COLLAR, 30" LENGTH, SIZE AS SHOWN ON THE PLANS (MJ X FL). CENTER WALL PIPE IN WALL.
- D. FLANGE CONNECTION FOR WALL SLEEVE, SIZE AS SHOWN ON PLANS.
- E. DUCTILE IRON TEE (FL X FL) SIZE AS SHOWN ON PLANS.
- F. ISOLATION VALVE, SIZE AND TYPE AS SHOWN ON PLANS. USE GATE VALVE FOR PIPE 12" AND SMALLER. USE BUTTERFLY VALVE FOR PIPE 14" AND LARGER. ALL ISOLATION VALVES SHALL HAVE HANDWHEEL OPERATOR.
- G. FLANGE ADAPTER, SIZE AND TYPE AS SHOWN ON PLANS. TYPICAL FOR ALL FLANGE CONNECTIONS ASSOCIATED WITH LARGE VALVE.
- H. DUCTILE IRON PIPE SPOOL, THICKNESS CLASS 52, SIZE AS SHOWN ON PLANS.
- I. 1/2" PIPE TAP WITH 1/2" BALL VALVE AND CAP.
- J. LARGE (HIGH FLOW) PRESSURE REDUCING VALVE, SIZE AS SHOWN ON PLANS.
- K. FLANGE ADAPTER, SIZE AND TYPE AS SHOWN ON PLANS. TYPICAL FOR ALL FLANGE CONNECTIONS ASSOCIATED WITH SMALL VALVE.
- L. DUCTILE IRON PIPE SPOOL, THICKNESS CLASS 52, SIZE AS SHOWN ON PLANS.
- M. DUCTILE IRON BEND (FL X FL), SIZE AS SHOWN ON PLANS.
- N. GATE VALVE (FL X FL), SIZE AS SHOWN ON THE PLANS. GATE VALVE SHALL HAVE HANDWHEEL OPERATOR.
- O. SMALL (LOW FLOW) PRESSURE REDUCING VALVE, SIZE AS SHOWN ON PLANS.
- P. ALUMINUM ACCESS LADDER.
- Q. 3'-0" X 3'-0" ALUMINUM FLOOR DOOR WITH RECESSED HASP COVERED BY A HINGED LID FLUSH WITH TOP SURFACE. HARDWARE AND HINGES SHALL BE 304 STAINLESS STEEL. H-20 RATED.
- R. 4'-0" X 6'-0" ALUMINUM FLOOR DOOR WITH RECESSED HASP COVERED BY A HINGED LID FLUSH WITH TOP SURFACE. DOOR SHALL BE DOUBLE LEAF TO PROVIDE ACCESS TO BOTH LARGE AND SMALL PRV. HARDWARE AND HINGES SHALL BE 304 STAINLESS STEEL. H-20 RATED.
- S. 6" 316 GALVANIZED STEEL PIPE GOOSENECK WITH INSECT SCREEN.
- T. 6" 316 GALVANIZED STEEL WALL SLEEVE.
- U. 2'-0" X 2'-0" X 2'-0" GRAVEL-FILLED SUMP. GRAVEL PER ASTM C33, NO. 57 GRAVEL.
- V. ADJUSTABLE PIPE SADDLE SUPPORT FOR LARGE VALVE PIPING, SIZE AS SHOWN ON PLANS.
- W. ADJUSTABLE PIPE SADDLE SUPPORT FOR SMALL VALVE PIPING, SIZE AS SHOWN ON PLANS.



ELEVATION THROUGH LARGE VALVE  
NTS



ELEVATION THROUGH SMALL VALVE  
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DATE MODIFIED:

FEBRUARY 2018



City of Rio Rancho  
Department of Public Works

STANDARD PRESSURE REDUCING  
VALVE STATION

DWG. NO. W-08

APRIL 22, 2016