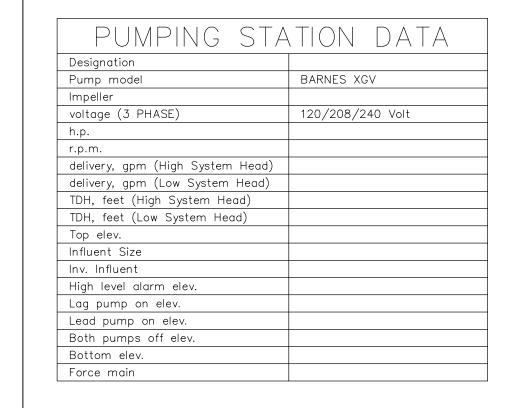


GRINDER LIFT STATION SECTION



GENERAL NOTES:

1. WET WELL AND VALVE VAULT SHALL BE COATED WITH KOP-COAT COAL TAR EPOXY 300-M INSIDE AND OUT. (TWO COATS, 9 MILS EACH)

2. BASE AND FIRST RISER UNIT TO BE CAST MONOLITHIC.

3. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE

SHALL BE MADE WATERTIGHT WITH WALL SLEEVE OR NON-SHRINK GROUT.

6. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 S.S. HARDWARE SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY

7. FLEXIBLE COUPLING IF USED SHALL BE SLEEVE TYPE.

8. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE 316 STAINLESS STEEL.

9. ALL ENCLOSURES SHALL BE NEMA 4X RATED.

10. ALL MECHANICAL JOINT FITTINGS ON PRESSURE PIPE SHALL HAVE BOTH "MEGALUG" TYPE JOINT RESTRAINING GLANDS AND THRUST BLOCKS.

11. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND MEETING THE REQUIREMENTS OF REGIONAL UTILITIES STANDARD DETAILS AND SPECIFICATIONS

12. ANY LOCATION WHERE PRESSURE PIPELINES CURVATURE EXCEEDS MANUFACTURES SPECIFICATIONS: APPROPRIATE MECHANICAL JOINT FITTINGS SHALL BE USED.

13. ALL 2-INCH VALVES SHALL BE BALL TYPE - 2-INCH GATE VALVES SHALL NOT BE USED.

SLEEVE (3 INCH TAP AND LARGER) (OR TAPPING SADDLE, 2 INCH TAP AND SMALLER) AND VALVE W/ VALVE BOX.

15. DEVELOPERS OF PRIVATE PROJECTS SHALL PROVIDE ALL WETLANDS PERMITS NECESSARY FOR UTILITY CONSTRUCTION.

16. ALL GRINDER LIFT STATIONS LOCATED IN A PUBLIC RIGHT-OF-WAY MUST BE DESIGNED AND CONSTRUCTED OF REINFORCED CONCRETE AS PER THE SECTION TITLED "STRUCTURAL AND OTHER NOTES" DETAILED BELOW.

STRUCTURAL AND OTHER NOTES:

1. CONCRETE: DESIGN PER CURRENT EDITION OF A.C.I. (318-83).

CONCRETE STRENGTH @ 28 DAYS IS:

Fc'= 3500 PSI

CONCRETE MIX SHOULD NOT CONTAIN MORE THAN 5 GALLONS OF WATER PER SACK OF CEMENT. AGGREGATES SHOULD HAVE LOW ABSORPTION AND SHOULD BE CLEAN, SOUND AND WELL GRADED FORM FINE TO COARSE. SAND MUST HAVE 10 TO 20 PERCENT OF PARTICLES PASSING A 50 MESH SIEVE. COARSE AGGREGATE MUST BE GRADED FROM 1/4" UP TO A MAXIMUM OF 2". KEEPING THE CONCRETE CURED FOR AT LEAST 7 DAYS IS ADVISABLE. REINFORCING ASTM A-615, GRADE 60.

2. CLEAR COVER FOR BASE SLAB - 3" FOR BOTTOM BARS AND - 2" FOR

3. CLEAR COVER FOR TOP SLAB - 2" FOR TOP & BOTTOM BARS.

4. CLEAN SAND BACKFILL WITH A FRICTION FACTOR OF 30° ROUND AND WEIGHING 120 PCF TO 130 PCF IS ASSUMED. THE DESIGN IS BASED ON A SUBMERGED CONDITION.

5. ALL REINFORCING SHALL BE SECURELY HELD IN POSITION WITH STANDARD ACCESSORIES DURING THE PLACING OF THE CONCRETE.

6. SPLICES IN REINFORCEMENT ARE NOT PERMITTED.

1/2" PER FOOT, WITH 2" P.V.C.

MALE IPS X SLIP ADAPTER.

FEMALE IPS THREADS.

VALVE VAULT DRAIN DETAIL

N.T.S.

7. IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL, THE ENGINEER SHALL BE NOTIFIED.

9. MAXIMUM DESIGN SOIL PRESSURE ASSUMED = 2000 PSF.

-PRESSURE GAUGE, ACCURATE TO 1 P.S.I. AND O TO 50 P.S.I. RANGE (2 REQUIRED). GAUGES SHALL BE INSTALLED ON A FLANGE TO FLANGE STAINLESS STEEL SPOOL PIECE. SPOOL SHALL BE TAPPED WITH 1" NPT HOLE WITH A STAINLESS STEEL NIPPLE AND STAINLESS STEEL BALL VALVE. THE SPOOL SHALL BE INSTALLED BETWEEN THE CHECK VALVE AND EFFLUENT PIPE BALL VALVE. (HIGHER TOP READING RANGE TO BE SUPPLIED IF PUMP SELECTION WARRANTS)

DRAWN BY: | CHECKED BY RADPROJECT NO.: 000-000DRAWING SCALE: N.T.S

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PLOT DATE: SHEET NO. 1 OF 1

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