



1 LIFT STATION MANHOLE  
 L/SZ  
 0 1 2 4'

PUMP CONTROL ELEVATIONS	
LOW LEVEL ALARM	-----
PUMP OFF	-----
LEAD PUMP ON	-----
LAG PUMP ON	-----
HIGH LEVEL ALARM	-----

**KEYNOTES:**

- 1) PRECAST CONCRETE COVER WITH #4 @ 9" E.W. TOP AND #5 @ 4 1/2" E.W. BOTTOM, REINFORCEMENT GRADE 60
- 2) 30" X 48" ALUMINUM HATCH WITH UPPER GUIDE BRACKET, CHAIN HOOR CABLE HOLDER, AND POSITIVE LOCK @ 90° OPENING. SEE PLAN AT GRADE FOR COVER HINGE ORIENTATION
- 3) VENT PIPE - SEE DETAIL F/L/S3
- 4) PRECAST COVER CONNECTION - SEE DETAIL D/L/S3
- 5) ELECTRICAL CABLE HOLDER
- 6) RIGID PVC CONDUIT @ ELEVATION xxxxx - CORE DRILL & INSTALL WITH SPLIT T SEAL AND PVC CONDUIT. ROUTE UNDERGROUND. SEE ELECTRICAL SITE PLAN
- 7) CORE DRILL FOR ELEC CONDUIT AND SEAL WITH NON SHRINK GROUT
- 8) PUMP GUIDE RAILS
- 9) PRECAST JOINT WITH BUTYL RUBBER JOINT SEAL (KENT, RAMMEK, OR CONSEAL) (TYPICAL)
- 10) ON-SITE MATERIAL (SEE NOTE #3 FOR COMPACTION)
- 11) PIPE SEAL GASKET - SEE DETAIL A/L/S3 (TYP)
- 12) PIPE CONNECTION - SEE DETAIL C/L/S3 (TYP)
- 13) DIP PUMP DISCHARGE (TYP OF 2)
- 14) GROUT CIRCLE AS RECOMMENDED BY PUMP MANUFACTURER
- 15) CONCRETE BASE SLAB CONNECTION - SEE DETAIL E/L/S3
- 16) 12" THICK CONCRETE SLAB WITH #6 @ 12" E.W. BOTTOM AND #8 @ 6" E.W. TOP, REINFORCING GRADE 60
- 17) PUMP CONTROL LEVEL FLOATS
- 18) SUBMERSIBLE PUMP (2 REQUIRED) INSTALL PER MANUFACTURER. GROUT REQUIRED AS RECOMMENDED BY PUMP MANUFACTURER
- 19) FLANGED BALL CHECK VALVE (FLYGT HDL OR EQUAL) (2 REQ'D)
- 20) S.S. CHAINS AND SHACKLES
- 21) MJ GATE VALVE WITH GEAR OPERATOR, EXTENSION AND VALVE BOX TO GRADE (SEE DETAIL H/L/S3)
- 22) MJ GATE VALVE WITH GEAR OPERATOR, EXTENSION AND VALVE BOX TO GRADE (SEE DETAIL H/L/S3) (2 REQ'D)
- 23) MJ REDUCER
- 24) POLY WRAP DIP
- 25) CLASS 5 MATERIAL - SEE GENERAL NOTE NO. 2
- 26) MDOOT 3733 TYPE 5 GEOTEXTILE FABRIC
- 27) UNEXCAVATED SOILS
- 28) PUMP CONTROLS AND POWER CABLES, S.S. FLOAT CABLES AND PRESSURE TRANSDUCER WITH 2 FLOAT BACKUP
- 29) FIBERGLASS FALL PROTECTION GRATING
- 30) BUTYL JOINT WRAP

**GENERAL NOTES:**

1. AT LEAST ONE SOIL BORING AND ACCOMPANYING GEOTECHNICAL REPORT IS REQUIRED AT THE LIFT STATION SITE
2. DESIGN ALLOWABLE NET SOIL BEARING PRESSURE : 2500 PSF (ASSUMED)
3. COMPACT BACKFILL TO 100% STANDARD PROCTOR ABOVE AND BELOW PIPES
4. PARTS OF SECTION VIEW OF DRAWING ARE ROTATED FOR CLARITY
5. SEE PLAN VIEW AND SITE PLAN FOR ORIENTATION OF PIPES
6. CONTRACTOR TO VERIFY EXISTING CONDITIONS
7. PAINT ALL INTERIOR MANHOLE CONCRETE AND PIPING WITH (2) COATS OF EPOXY PAINT
8. COMPACT BACKFILL TO 100% OF STANDARD PROCTOR DRY DENSITY FOR INSTALLATION OF THE LIFT STATION.
9. BED AND BACKFILL PIPE TRENCHES TO 1 FOOT ABOVE FORCEMAIN AND ALL OTHER MATERIAL. SEE DETAIL V/L/S3
10. INSTALL CHECK VALVES IN A LOCATION THAT IS EASILY ACCESSIBLE FOR MAINTENANCE.



LIFT STATION  
 STANDARD DETAIL  
 (ELEVATION)

PLATE:  
 5401-A

REVISED:  
 1-10

ENGINEERING  
 DEPARTMENT

FILE NAME:  
 G:\ENG\SPCS\5401A