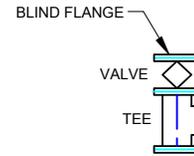
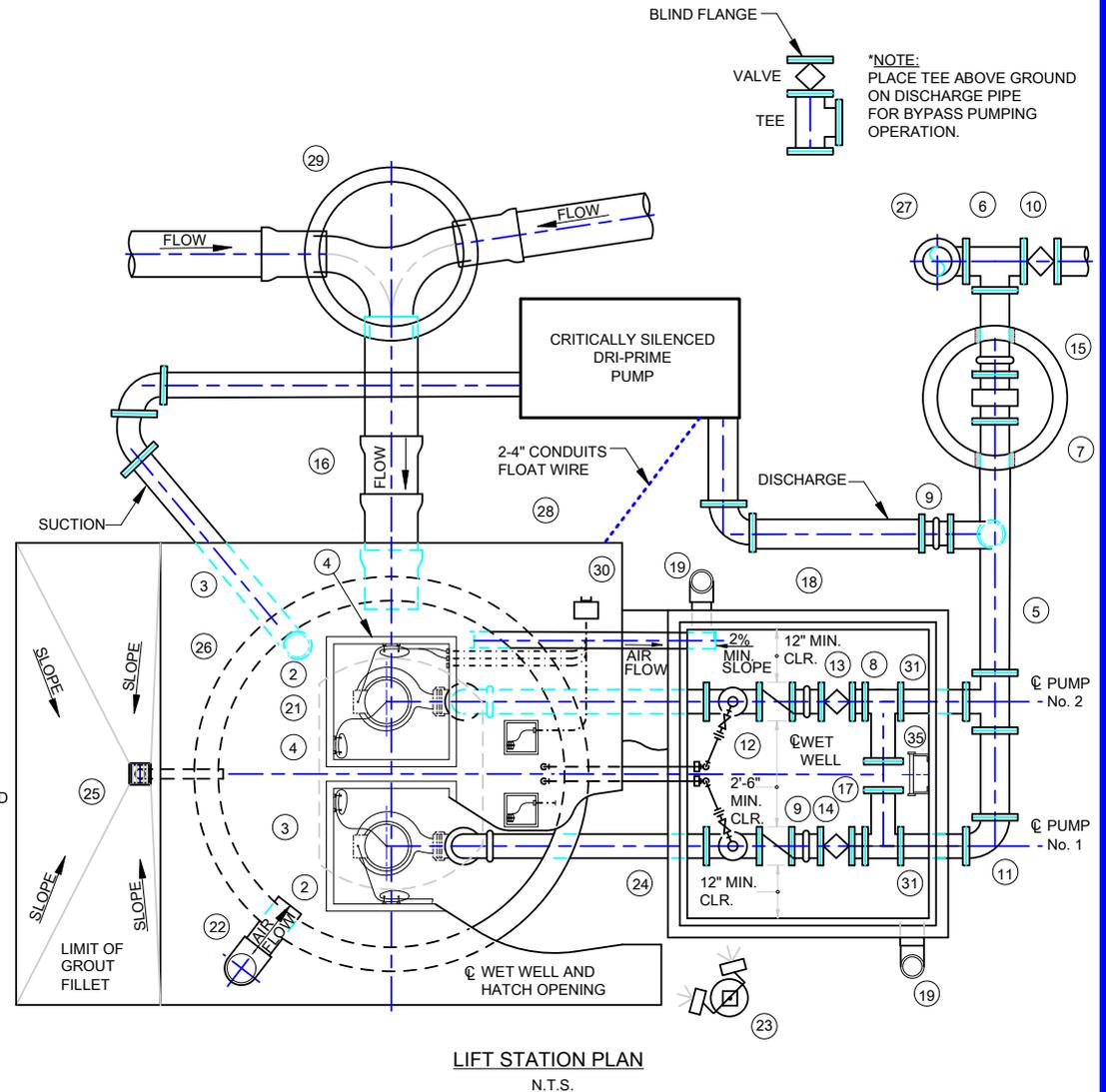


MATERIAL AND EQUIPMENT LIST

1. SUBMERSIBLE RAW SEWAGE PUMP WITH CENTER DISCHARGE.
2. POWER AND CONTROL CABLES TO PUMP. SUPPORT CABLES WITH ST. STL. KELLUM GRIPS HUNG FROM SUPPORT AND LOOP CABLE OVER SUPPORT.
3. 3/16 ST. STL. LIFTING CABLE. LOOP THROUGH PUMP LIFT BAIL ASSEMBLY WITH OTHER ENDS ATTACHED TO ROOF SUPPORT.
4. CABLE SUPPORT. 3/4" DIAMETER ST. STL.
5. FLANGED ST STL SPOOL. LENGTH AS REQUIRED (TYP.).
6. FLANGED ST STL TEE.
7. 5' I.D. PRECAST CONCRETE MANHOLE WITH FLAT TOP AND CONCRETE BASE. PLACE CONCRETE BASE OVER 12" CRUSHED ROCK, PROVIDE 8" DIAMETER SUMP IN CONCRETE BASE FOR DRAINAGE.
8. PLUG VALVE. GEAR OPERATED, NON-LUBRICATED.
9. SWING CHECK VALVE WITH OUTSIDE LEVER AND WEIGHT.
10. PLUG VALVE FOR BURIED SERVICE. GEAR OPERATED, NON-LUBRICATED.
11. FLANGED DI 90° ELBOW.
12. COMBINATION SEWAGE AIR AND VACUUM VALVE WITH GATE VALVE, BACK FLUSH ATTACHMENTS, AND AIR DISCHARGE TO WET WELL.
13. FLANGED x GROOVED END DI SPOOL, MINIMUM 6" LONG.
14. VICTAULIC GROOVED COUPLING (STYLE 31).
15. MAGNETIC FLOW METER.
16. EXTRA STRENGTH VCP, 2'-0" LONG SECTIONS.
17. HOT DIPPED GALVANIZED STEEL LADDER.
18. VALVE VAULT. ASSOCIATED CONCRETE OR BROOKS PRODUCTS PRECAST CONCRETE VAULT WITH ALUMINUM PARKWAY COVER AND CONCRETE BOTTOM, WITH SUMP AND 4" DRAIN TO WET WELL.
19. 8" PVC SCHEDULE 40 VALVE VAULT VENT WITH 10 ROWS OF 12 EQUALLY SPACED 1" DIAMETER DRILLED HOLES (120 TOTAL), EXTEND 4' ABOVE GRADE AND CAP WITH SOLVENT WELDED CAP (FLAT PLATE). LOCATE ONE HIGH AND ONE LOW.
20. 12" SQUARE OPENING IN CONCRETE TOP WITH CAST IRON RING AND BROOKS CB 1212 FRAME AND SOLID COVER.
21. ACCESS HATCH. SINGLE LEAF, STEEL FRAME, ALUMINUM LOCKING COVER (CHECKERED PLATE), LIFTING MECHANISMS, AND ST. STL. HARDWARE. BILCO MODEL J (300#/SF LOADING).
22. 12" PVC SCHEDULE 40 WET WELL VENT. 10 ROWS OF 12 EQUALLY SPACED 1" DIAMETER DRILLED HOLES (120 TOTAL), EXTEND 4' ABOVE GRADE AND CAP WITH SOLVENT WELDED CAP (FLAT PLATE).
23. WORK AREA LIGHT.
24. FLANGE x GROOVED END DI SPOOL.
25. FLOOR DRAIN.
26. RCP WET WELL. DIAMETER BASED ON DESIGN FLOW. MINIMUM DIAMETER OF 6'.
27. LIFT STATION BYPASS PIPING, D.I. WITH BLIND FLANGE. EXTEND TO 6" ABOVE FINISH GRADE, MINIMUM.
28. PVC SCHEDULE 40. AIR SUPPLY TO ODOR SCRUBBER.
29. PRECAST CONCRETE MANHOLE, 5'-0" I.D. MIN.
30. TRANSDUCER. MOUNT MINIMUM 42" ABOVE WET WELL ROOF. ELECTRICAL JUNCTION BOXES AND STANTIONS FOR PUMP POWER/CONTROL CABLES, FLOATS, AND
31. INSTALL TEE WITH VALVE AND BLIND FLANGE FACING UP (NOTE: THIS IS FOR BYPASS PUMPING).
32. INSTALL FALL THROUGH PROTECTION.
33. INSTALL DAVITARM BASE. NUMBER OF BASES REQUIRED TO BE DETERMINED ON INDIVIDUAL DRAWINGS.
34. ALL PIPING AND HARDWARE IN WET WELL NEEDS TO BE IN STAINLESS STEEL
35. INSTALL TEES AND VALVE BETWEEN DISCHARGE PIPE.

NOTE

THESE PLANS ARE CONSIDERED GUIDELINES ONLY. THE DESIGN ENGINEER SHALL PREPARE PLANS SPECIFIC TO EACH LIFT STATION, BASED ON SITE SPECIFIC DATA, WESTERN'S GUIDELINES AND OTHER INDUSTRY STANDARDS AS REQUIRED.



*NOTE:
PLACE TEE ABOVE GROUND
ON DISCHARGE PIPE
FOR BYPASS PUMPING
OPERATION.

LIFT STATION PLAN
N.T.S.



APPROVED DATE: January 1, 2011
[Signature]

DIRECTOR OF ENGINEERING

LIFT STATION GUIDELINES
LIFT STATION PLAN
PLAN

STD. DWG.
NO.
LS-1