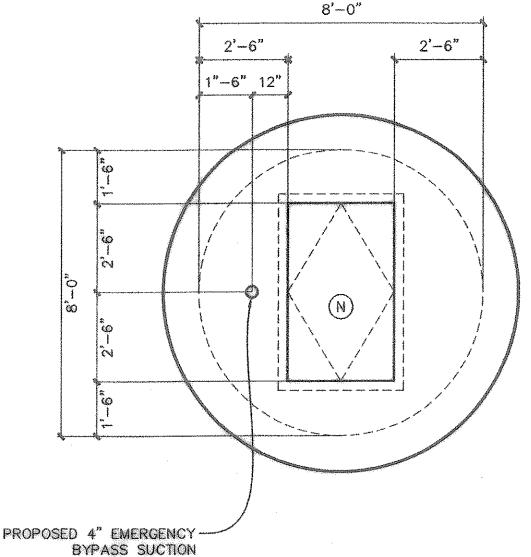


18'-0"



PLAN VIEW - WET WELL ROOF NORTH LAKESHORE VALLEY LIFT STATION SCALE = 3/8" = 1'-0"

CONTRACTOR SHALL COORDINATE ALL ROOF PIPING PENETRATIONS WITH PIPING LAYOUT IN DETAILS 1/LS2 AND 3/LS2.

- GROUT OPENING FOR ACCESS FRAME 2. ACCESS HATCHES SHALL BE FLUSH MOUNTED, ALUMINUM (FLYGT OR EQUAL), H-20 CAPACITY, AND HAVE PADLOCK
- HASPS, DRAINS, AND HYDRAULIC OPENERS. 3. CONFIGURATIONS AND DIMENSIONS SHOWN ARE BASED ON THE EQUIPMENT SPECIFIED. THE CONTRACTOR SHALL VERIFY THE LAYOUT AND ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT, TO THE ENGINEER, SHOP DRAWINGS SHOWING THE FINAL LAYOUT AND DIMENSIONS PRIOR TO CONSTRUCTION.
- 4. REFERENCE SPECIFICATIONS FOR LIFT STATION EQUIPMENT. PUMPS SHALL BE FLYGT MODEL NP 3102.181 SH OR APPROVED EQUAL WITH A PUMP CAPACITY OF 145 GPM AT 55.13 FEET TDH.
- 5. 4" DRAIN PIPE FROM VALVE VAULT TO WET WELL SHALL BE SCHEDULE 40 PVC CONSTRUCTED ON -0.50% SLOPE. FLOOR DRAIN INSIDE VALVE VAULT SHALL BE CENTERED INSIDE THE STRUCTURE
- 4" I.D. FLAP VALVE AT ITS DISCHARGE POINT INSIDE THE WET WELL. FLAP VALVE SHALL BE RODNEY HUNT SERIES FV-SPR OR 7. ALL COUPLINGS SHALL BE EPOXY COATED STEEL AND SHALL BE DRESSER, SMITH-BLAIR 411, OR EQUAL. COUPLINGS SHALL BE
- RESTRAINED WITH A THRUST HARNESS DESIGNED IN ACCORDANCE 8. ALL FLANGES SHALL BE CAPABLE OF A WORKING PRESSURE OF
- ALL RESTRAINING RODS SHALL BE 316 OR 304 STAINLESS STEEL 10. INSTALL ISOLATION KITS BETWEEN DISSIMILAR METAL PIPING. 11. ALL PIPE PENETRATIONS INTO WET WELL SHALL INCLUDE A MUXPE
- 12. ALL OPENINGS AND CONNECTIONS THROUGH THE WALL SHALL BE PREFABRICATED AND SEALED TO PREVENT LEAKAGE
- 13. ALL DUCTILE IRON PIPING SHALL BE RATED FOR A WORKING PRESSURE OF 150 PSI. ALL DUCTILE IRON PIPING INSTALLED ABOVE GROUND SHALL BE FLANGED.

LS2

- 14. ALL EXPOSED METAL WITHIN THE WET WELL SHALL BE
- TYPE 316L STAINLESS STEEL 15. ALL UNDERGROUND DUCTILE IRON PIPING SHALL BE MECHANICAL JOINT AND POLYWRAPPED. ALL FITTINGS BETWEEN DUCTILE IRON PIPE SHALL BE RESTRAINED WITH MEGALUG FITTINGS AS MANUFACTURED BY EBAA IRON INC., OR APPROVED EQUAL
- 16. CONTRACTOR SHALL PROVIDE STRUCTURAL DESIGN OF WET WELL AND SUBMIT TO ENGINEER FOR REVIEW.
- 17. WET WELL EXCAVATION METHODS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL
- 18. CONTRACTOR SHALL SUBMIT DESIGN FOR GROUT CONE UNDER PUMP SUCTIONS, INCLUDING MEANS OF ATTACHMENT, TO THE ENGINEER
- PRIOR TO CONSTRUCTION. 19. CONTRACTOR SHALL PURCHASE THE DISCHARGE CONNECTIONS DIRECTLY FROM ITT FLYGT. DISCHARGE CONNECTIONS SHALL BE LOCATED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS FROM ITT FLYGT.
- AND SHALL BE A NEENAH MODEL R-4937-B GRATE OR APPROVED 20. ALL WET WELL CONCRETE JOINTS SHOULD BE LOCATED ABOVE THE OPERATING LEVELS (WET ZONE) IN THE WET WELL. THE BASE SHALL BE INTEGRALLY CAST WITH THE FIRST SECTION OF PIPE. ALL JOINTS SHALL BE SEALED WITH WATERSTOP SEALS, AND THE INTERIOR AND EXTERIOR OF EACH JOINT SHALL BE SEALED WITH NON-SHRINK GROUT. JOINTS IN THE VALVE VAULT SHALL BE TREATED SIMILAR TO THE WET WELL. 21. ALL EXPOSED CONCRETE AND GROUT SURFACES INSIDE THE WET WELL
 - SHALL BE COATED WITH A PROTECTIVE COATING SYSTEM TO PREVENT DEGRADATION OF THE CONCRETE AND GROUT SURFACES BY SEWER GASES. THE SURFACES SHALL BE ABRASIVE BLASTED TO SSPC-SP13/NACE 6 PRIOR TO APPLICATION OF THE COATING. THE COATING SYSTEM SHALL CONSIST OF A 1/16" THICK PRIME COAT OF TNEMEC 218 MORTARCLAD, 125 MIL DFT OF TNEMEC 434 PERMASHIELD AND A 16 MIL DFT TOPCOAT OF TNEMEC 435 PERMAGLAZE OR APPROVED EQUAL. COATING SHALL BE APPLIED IN THE FIELD AFTER INSTALLATION OF THESE STRUCTURES. REFER TO TECHNICAL SPECIFACTION SECTION 09910.
 - 22. THE EXTERIOR OF ALL EXPOSED DUCTILE IRON PIPING SHALL BE COATED WITH CARBOLINE BITUMASTIC 300M COAL TAR EPOXY OR APPROVED EQUAL. THE INTERIOR OF ALL DUCTILE IRON PIPING SHALL BE COATED WITH CARBOLINE BITUMASTIC 300M COAL TAR EPOXY OR APPROVED EQUAL. REFER TO TECHNICAL SPECIFICATION SECTION 09900.
 - 22. CRUSHED ROCK BASE WILL BE IN ACCORDANCE WITH C.O.G. SPECIFICATION 2.1.3(b)

<u>VARK</u>	DESCRIPTION	QUANTITY	JOINT
A	SUBMERSIBLE PUMP W/ SEALING FLANGE	2	_e ct qual
	ADAPTER AND STAINLESS STEEL LIFTING CABLES		
8	4" RESTRAINED COUPLING	2	amoor
C	4" SWING CHECK VALVE W/ LEVER AND SPRING	2	FLGFLG.
D	4" GATE VALVE	3	FLG.
E	3" - DISCHARGE CONNECTION	2	FLGFLG
	(ITT FLYGT PART NUMBER 444 68 05)		
F	4" - 90° BEND	2	FLGFLG
G	4" PIPE SPOOL	6	FLGP.E.
H	4" PIPE SPOOL	4	M.JP.E.
İ	CENTURY LINE WALL SLEEVE	10	
J	4" PIPE SPOOL	3	FLGP.E.
K	4" PIPE SPOOL	2	P.EP.E.
L.	4" -45" BEND	4	M.JM.J.
M	4"X4" WYE	-	M.JM.JFLC
N	5'x3' DOUBLE LEAF ACCESS HATCH	2	
	WITH FLYGT TYPE FLED-13HD OR EQUAL		direction.
0	LATERAL PIPE SUPPORT AT 4' INTERVALS (TYP.)	10	
P	PVC HATCH DRAIN	2	angen.
Q	ADJUSTABLE PIPE SADDLE SUPPORT (ANVIL	4.	**************************************
	INTERNATIONAL INC. FIG. 264 OR APPROVED EQUAL)		,eegen-
R	4" QUICK CONNECT	2	
S	4" X 3" ECCENTRIC REDUCER	2	FLGFLG.
T	4" - 45° BEND	Zin.	FLGM.J.
U	4" SWING CHECK VALVE	1	M.JM.J.
٧	4" X 4" WYE	Apres	M.JM.J.

RECORD DRAWING THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE, THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING INFORMATION AS PROVIDED BY THE

CONTRACTORS

*** NOTE ALL PIPE AND FITTINGS ABOVE GROUND SHALL BE DUCTILE IRON. FITTINGS AND

PIPING WITHIN THE WET WELL SHALL BE STAINLESS STEEL. (RE: SPECIFICATIONS)