



TANK DIA.	"A"
48"	1"
60"	8"
72"	8"

NOTES:

1. COMPLETE PACKAGED DUPLEX SEWAGE GRINDER LIFT STATION WITH J-BOX AND REMOTE MOUNTED CONTROL PANEL AS MANUFACTURED BY HYDROMATIC PUMP COMPANY OR EQUAL.
2. TWO EXPLOSION PROOF SUBMERSIBLE SEWAGE GRINDER PUMPS EQUAL TO HYDROMATIC PUMP COMPANY OR EQUAL. PUMPS WILL BE SIZED BASED ON SYSTEM CAPACITY (GPM REQUIRED), TOTAL DYNAMIC HEAD (TDH) AND TYPE OF COMMERCIAL USE. DEVELOPER SHALL SUBMIT PUMP MODEL AND FLOW REQUIREMENTS TO CROSS VALLEY WATER DISTRICT FOR APPROVAL. SEE NOTE 6.
3. SUMP BASIN DIAMETER SHALL BE SIZED TO MEET SYSTEM CAPACITY. THE WET WELL SHOULD PROVIDE A HOLDING PERIOD NOT TO EXCEED 10 MINUTES FOR THE DESIGN AVERAGE FLOW. SEE NOTES 2 AND 6.
4. CONTROL PANEL SHALL BE CONTAINED IN A WEATHERPROOF, STEEL ENCLOSURE MEETING NEMA 3R REQUIREMENTS WITH HINGED DOOR AND NEOPRENE GASKET. CONTROL PANEL SHALL INCLUDE ALARM LIGHT, RUN LIGHT, HAND-OFF-AUTO SWITCH, TRANSFORMER RESET AND OVERLOAD RESET. THE CONTROL PANEL SHALL BE ASSEMBLED AND TESTED BY A SHOP MEETING U.L. STANDARD 508 FOR INDUSTRIAL CONTROLS. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES.
5. DEVELOPER IS RESPONSIBLE FOR OBTAINING ELECTRICAL PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.
6. PROVIDE SHOP DRAWING SUBMITTALS FOR ALL MATERIALS AND SYSTEM SIZING CALCULATIONS TO CROSS VALLEY WATER DISTRICT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

PLAN VIEW

MATERIALS LIST

① CONCRETE OR FIBERGLASS SUMP. SEE NOTES 3 AND 6.	⑮ HYDRAULICALLY SEALED DISCHARGE FLANGE.
② GATE VALVE EXTENSION REQUIRED FOR DISTANCE GREATER THAN 2' FROM TOP OF BASIN.	⑯ 2" NPT COUPLING.
③ GALVANIZED PIPE GUIDE RAIL.	⑰ 2" BRASS GATE VALVE.
④ INSTALL BRACE WHEN GUIDE RAIL EXCEEDS 15'-0".	⑱ 2" CAST IRON BALL CHECK VALVE.
⑤ SHIMS FOR DISCHARGE FLANGE ALIGNMENT.	⑲ INTERMEDIATE BRACE REQUIRED FOR EXTENSION LONGER THAN 10'-0".
⑥ HOPPER BOTTOM BY OTHERS.	⑳ LIFTING CHAIN.
⑦ 4' MIN. AND 16' MAX. DEPTH. SEE NOTE 3.	㉑ DISCHARGE PIPING SHALL INCLUDE 2" CHECK VALVE (2 EACH), 2" GATE VALVE (2 EACH), G.I. TEE, BENDS, UNIONS AND ALL MISC. FITTINGS REQUIRED. CONCRETE VAULT SHALL BE UTILITY VAULT MODEL 444-LA OR EQUAL, WITH DRAIN AND 3' X 3' APPROVED HS20 WATERTIGHT HATCH.
⑧ 12" MINIMUM DEPTH FOUNDATION GRAVEL.	㉒ 2-1/2" PVC PIPE. MAINTAIN 36" MINIMUM COVER.
⑨ NEMA 4 J-BOX	㉓ 1-1/4" NPT CONDUIT TO POWER SUPPLY.
⑩ 6" INLET HUB OR COLLAR.	㉔ CONDUIT SEAL TO MEET LOCAL CODES AND PREVENT SURFACE WATER FROM ENTERING J-BOX.
⑪ 6" INLET PIPE DEPTH PER FIELD CONDITIONS.	㉕ APPROVED HS20 WATERTIGHT HATCH.
⑫ SEALED MERCURY OR MECHANICAL SWITCH.	
⑬ SUBMERSIBLE SEWAGE GRINDER PUMP. SEE NOTE 2.	
⑭ 3'-0" STANDARD DEPTH.	

**CROSS VALLEY WATER DISTRICT
SIDE SEWER DETAILS**

**PRIVATE COMMERCIAL DUPLEX
GRINDER PUMP STATION**

SS-8A

NOT TO SCALE

FEB 2022