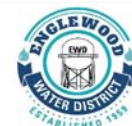


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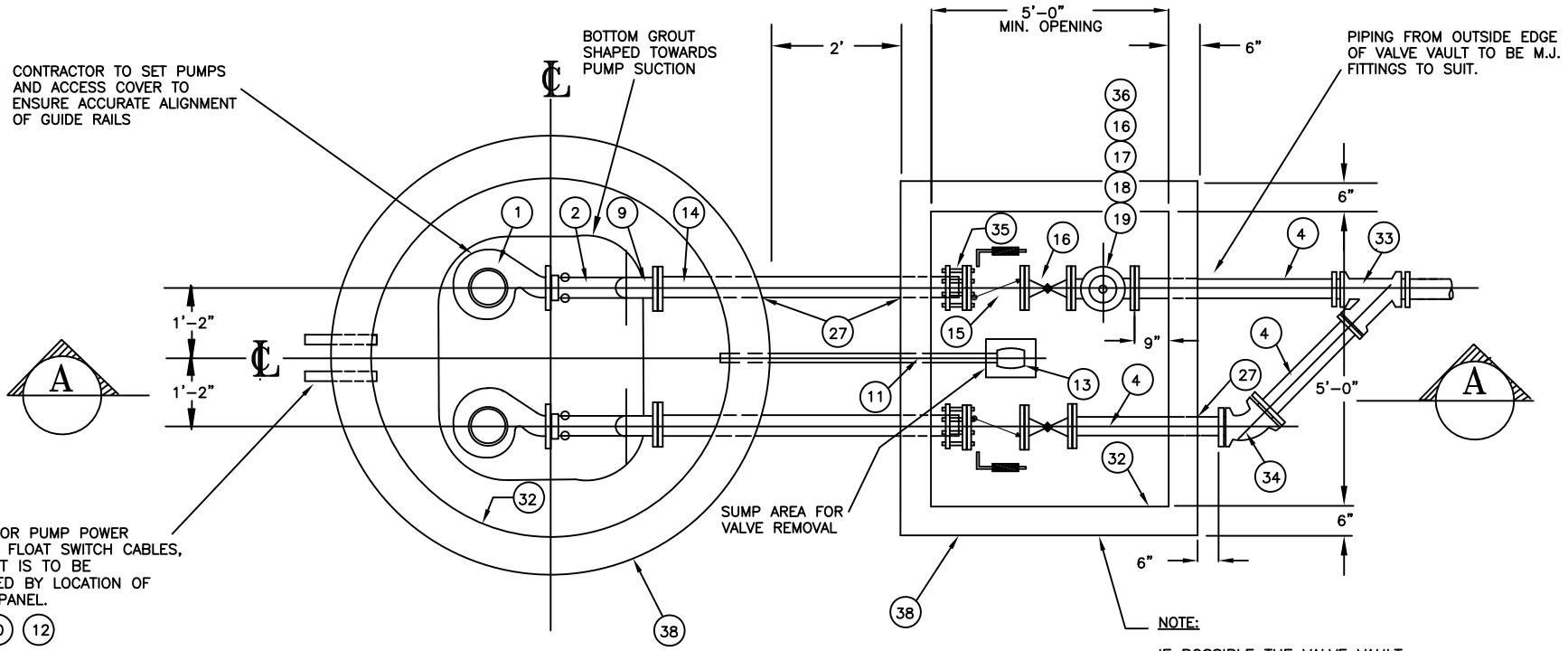
**SECTION A-A, THRU WET WELL
AND VALVE VAULT**



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CONTRACTOR TO SET PUMPS AND ACCESS COVER TO ENSURE ACCURATE ALIGNMENT OF GUIDE RAILS

BOTTOM GROUT SHAPED TOWARDS PUMP SUCTION



CONDUIT FOR PUMP POWER CABLES & FLOAT SWITCH CABLES, PLACEMENT IS TO BE DETERMINED BY LOCATION OF CONTROL PANEL.

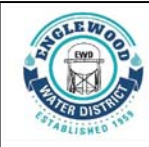
- (27)
- (10)
- (12)

SUMP AREA FOR VALVE REMOVAL

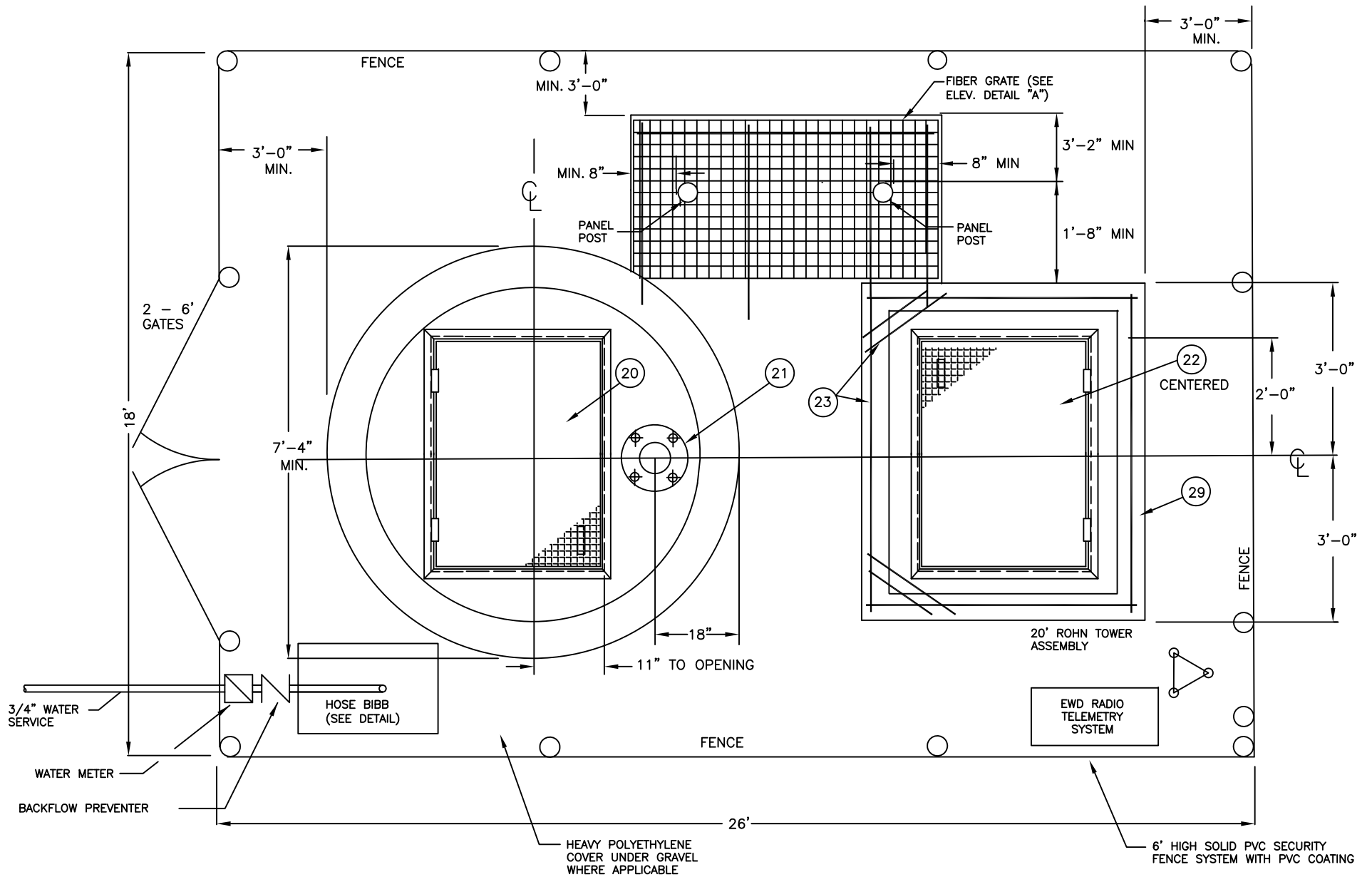
NOTE:
IF POSSIBLE THE VALVE VAULT SHALL BE POSITIONED 90 TO 180 DEGREES FROM THE INFLUENT LINE.

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PLAN-WET WELL AND VALVE VAULT

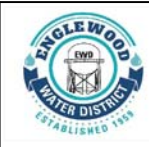


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**PLAN-TOP OF WET WELL
AND VALVE VAULT**



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NOTES

ALL NUTS, BOLTS, WASHERS, SET SCREWS AND OTHER FASTENERS INSIDE WET WELL AND VALVE VAULT SHALL BE TYPE 316 SS STAINLESS STEEL.

EXTERIOR - WET WELL & VALVE VAULT WALLS

- A. PATCH LEAKS, CRACKS AND JOINTS WITH HYDRAULIC CEMENT, PRECO PLUG OR EQUIVALENT.
- B. ON ALL BELOW GROUND OUTSIDE CONCRETE SURFACES:- THREE COATS (BLACK/RED/BLACK) COAL TAR EPOXY COATING WITH A MINIMUM DRY FILM THICKNESS OF 10 MILS PER COAT, FOR A TOTAL FINISH THICKNESS OF 30 MILS DRY FILM THICKNESS. COATINGS SHALL BE KOPPERS BITUMASTIC NO. 300M OR APPROVED EQUAL. SUBSEQUENT COATS SHALL BE APPLIED WITHIN 48HRS OF PREVIOUS COAT.
- C. SURFACES SHALL BE CLEAN AND DRY PRIOR TO COATING AND COATING SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

INTERIOR COATINGS OF PIPES, FITTINGS, VALVES, WET WELL AND VALVE VAULT

- A. PATCH LEAKS, CRACKS AND JOINTS WITH HYDRANLIC CEMENT, PRECO PLUG OR EQUIVALENT.
- B. COAT D.I. PIPING, FITTINGS, VALVES AND INTERIOR STRUCTURE WITH GREEN MONSTER LINER OR APPROVED EQUAL. SUBSEQUENT COATS SHALL BE APPLIED PER MANUFACTURERS INSTRUCTIONS.
- C. SURFACES SHALL BE DRY AND FREE OF OIL, RUST, SCALE AND DUST PRIOR TO COATING. COATING SHALL ALSO BE APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND COMPANY SPECIFICATIONS.

DRAWING LEGEND

- 1. FLYGT SUBMERSIBLE PUMP - TYPE ____, MODEL NO. _____, IMPELLER NO. _____, ____ H.P., 3 PH WITH POWER CABLES (2 REQUIRED).
- 2. FLYGT COMPATIBLE 4" STANDARD DISCHARGE CONNECTION (2 REQ'D)
- 2A. IF GINDER PUMP REQUIRED IT SHALL BE 2" DISCHARGE.
- 3. 2" DIAMETER SCH 40 WELDED STAINLESS STEEL PIPE TYPE 316SS MUST BE WITHIN 1/4" TOLERANCE OF FITTING INTO GUIDE RAIL BRACKETS, 4 REQUIRED AT ____ FOOT EACH.
- 3A. 3/4" STAINLESS STEEL GUIDE RAILS AND BRACKETS.
- 4. ____ " PVC DR 14 C-900 PIPING TO SUIT. *
- 5. PUMP POWER CABLE (FURNISHED BY MANUFACTURER) SHALL BE CONTINUOUS (NO SPLICES) FROM PUMP TO JUNCTION BOX AT PANEL. 2 REQUIRED AT ____ FEET EACH.
- 6. PUMP LIFTING CABLE TYPE 316SS SUPPLIED WITH 3/4" ID TYPE 316SS BALL RINGS MANUFACTURED OF 3/8" DIAMETER ROD SPACED ON 5'-0" CENTERS, AND TYPE 316SS SAFETY HOOKS ON EACH END (2 REQD)
- 7. ROTO FLOAT TYPE S LIQUID LEVEL SENSOR, EACH SENSOR CABLE TO BE A MINIMUM OF ____ CONTINUOUS FEET IN LENGTH - 1 REQUIRED.
- 8. LIQUID LEVEL SENSOR CABLE HOLDER TYPE 316SS WITH PUMP LIFTING CABLE RING. FURNISH WITH NOT LESS THAN 6 PRONGS.
- 9. ____ " CLASS 350 DI 90 DEGREE SR ELBOW. *
- 10. 2 1/2" MIN SCH 80 PVC CONDUIT FOR PUMP POWER CABLES.
- 11. 2" PVC SCHED 40.
- 12. 2 1/2" MIN SCH 80 PVC CONDUIT FOR FLOAT SWITCH CABLES.
- 13. 2" PVC CHECK VALVE.
- 14. ____ " PVC DR 14 C-900 PIPE. *
- 15. ____ " EMPIRE FUSION BOND EPOXY LINED "QUIET CLOSING SWING CHECK" WITH WEIGHT AND LEVER. *
- 16. ____ " FLANGED DRESSER X-CENTRIC STYLE 820 PLUG VALVE W/HANDLEVER ACTUATOR OR MUELLER A-2602-6-OL-E 193 WITH HANDLEVER. *
- 17. ____ " FLANGED TEE, DI CLASS 51 WITH 316 SS HARDWARE. *
- 18. ____ " DI THREADED FLANGE. *
- 19. ____ " ALUM. KAMLOK COUPLER WITH CAP AND CHAIN. *
- 20. HALLIDAY A3648 ALUMINUM ACCESS COVER & FRAME OR APPROVED EQUAL.

- 21. STATION VENT,- COMPRISED OF 8" SCH 80 PVC RISER AND FLANGE, 8" PVC BLANK FLANGE, AND 316 SS BOLTS, WASHERS AND NUTS (USE 2 NUTS PER BOLT, - ONE AS A SPACER - SEE DRAWING, 4 BOLTS REQUIRED). HEAVY FIBERGLASS SCREENING SHALL ALSO BE INSTALLED UNDER CENTER NUTS.
- 22. HALLIDAY A4848 ALUMINUM ACCESS COVER & FRAME OR APPROVED EQUAL.
- 23. #5 REBAR @ 6" O.C EACH WAY.
- 24. NEOPRENE BOOT CONFORMING TO ASTM C 923.
- 25. UPPER GUIDE RAIL BRACKETS (2 REQ'D) TYPE 316 SS.
- 26. FOR GUIDE RAILS OVER 15FT INSTALL INTERMEDIATE GUIDE RAIL BRACKETS 2 REQ'D TYPE 316 SS.
- 27. SEAL AROUND ALL PIPES ON BOTH SIDES OF WALL W/NON-SHRINK GROUT.
- 28. 3/4 X 8 316 SS J BOLTS THREADED MIN. 4" C/W 2 NUTS EACH (8REQ'D)
- 29. VALVE VAULT - PRECAST CONCRETE 4000 PSI STRUCTURE WITH INTEGRALLY CAST CONCRETE BASE SLAB. REINFORCEMENT OF BASE SLAB. SHALL BE WELDED OR CONTINUOUS WITH WALL REINFORCEMENT, WALL WIDTH: 6" FOR VALVE VAULT. AS AN ALTERNATIVE LAY 8" CONCRETE BLOCK WALL ON SLAB, INSERT #5 REBAR (2 PER FT.) & FILL WITH CONCRETE.
- 30. FILL JOINT WITH RAMNEK AFTER APPLYING ONE COAT OF RAMNEK PRIMER PAINT TO BOTH SURFACES (EACH STRUCTURAL SECTION), THEN FILL ANY GAPS LEVEL WITH NON-SHRINK GROUT PRIOR TO FIELD COATING AND BACKFILLING.
- 31. CRUSHED STONE BEDDING MATERIAL IN ACCORDANCE WITH ASTM C-33 GRADATION #67 (3/4" INCH TO #4 SIEVE).
- 32. GREEN MONSTER LINER PER COMPANY SPECIFICATION.
- 33. ____ " MJ WYE, USE WITH MJ RETAINER GLAND, COLUMBUS STANDARD OR EQUAL. *
- 34. ____ " 45 DEGREES MJ BEND, USE WITH MJ RETAINER GLAND (COLUMBUS STANDARD OR EQUAL). *
- 35. ____ " ROCKWELL #912 CAST IRON FLANGED COUPLING ADAPTER W/SS HARDWARE. *
- 36. ALL GASKETS SHALL BE 1/8" THICK SBR AS MANUFACTURED BY: U.S. PIPE "FLANGE-TYPE" OR AMERICAN CAST IRON PIPE "TORUSEAL".
- 37. WET WELL - PRECAST CONCRETE 4000 PSI STRUCTURE WITH INTEGRALLY CAST CONCRETE BASE SLAB. REINFORCEMENT OF BASE SLAB SHALL BE WELDED OR CONTINUOUS WITH WALL REINFORCEMENT, WALL WIDTH: 8" FOR WET WELL.
- 38. THREE COATS OF COAL TAR EPOXY - BIYAMASTIC NO 300M
* TO BE SIZED BY ENGINEER / LIFT STATION SUPPLIER (4" MIN)

GENERAL NOTES

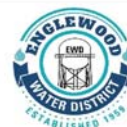
- 1. POSITION OF CONTROL PANEL SHALL BE DETERMINED BY E.W.D.
- 2. WATER SHALL BE MADE AVAILABLE NEAR PUMP STATION SITE - A METER AND RP BACKFLOW DEVICE SHALL BE INSTALLED.
- 3. WET WELL SHALL BE INSPECTED PRIOR TO COMMISSIONING.
- 4. VALVE VAULT SHALL BE INSPECTED PRIOR TO BACK FILLING AND INTERIOR COATING.
- 5. POWER SHALL BE 3 PHASE 150 AMP.
- 6. BREAKERS TO BE SqD FAL.
- 7. STARTER TO BE SqD CLASS 8536 NEMA RATE WITH THERMAL OVERLOAD RELAYS.
- 8. SELECTOT SWITCHES TO BE SqD CLASS 9001 SKS43B WITH KA CONTACT BLOCK.
- 9. PILOT LIGHTS TO BE SqD CLASS 9001, RED - SKP1R31, GREEN - SKP1G31, AMBER - SKP1A31.
- 10. PUSH BUTTON TO BE SqD 9001, ASB - SKRIU WITH KA CONTACT BLOCKS.
- 11. LIFT STATION SHALL BE ENCLOSED BY 6' HIGH SOLID PVC FENCE SYSTEM.

EWD RADIO TELEMETRY SYSTEM

- 1. DATA FLOW SYSTEMS, INC.
TCU TAC PACK RTU, INCLUDES FIBERGLASS ENCLOSURE, RF PIGTAIL, RTU SURGE PROTECTION KIT, 3-PHASE SURGE PROTECTOR, POLYPHASER COAXIAL SURGE PROTECTOR, POLYPHASER COAXIAL SURGE PROTECTOR, BACKUP BATTERY.
COMPLETE ANTENNA SUBSYSTEM, 21' ROHN TOWER ASSEMBLY AND MAST, LAA200 ANTENNA AND COAXIAL CABLE ASSEMBLY, BLUEBIRD SUBMERSIBLE PRESSURE TRANSDUCER, CONTROL PANEL ENCLOSURE, 4 FUNCTION - MODULE RTU 204.

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