FOR CONSTRUCTION

VICINITY MAP

LOCATION MAP

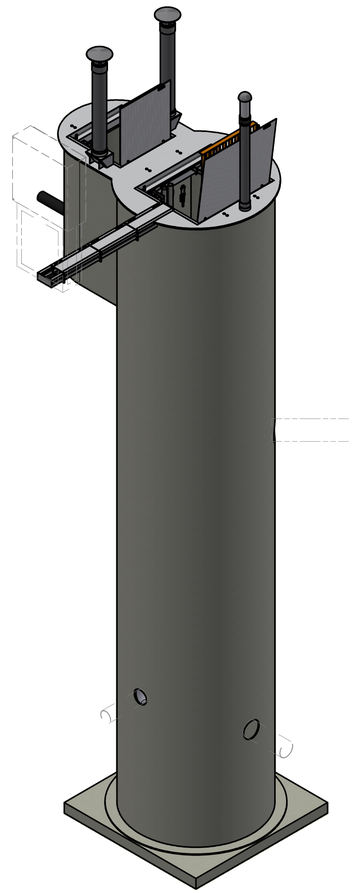
SITE ADDRESS

100 PETER IREDALE RD
HAMMOND, OR

FORT STEVENS
HAMMOND, OR

SHEET INDEX

SHEET	DESCRIPTION
G-01	TITLE SHEET
G-02	GENERAL NOTES
C-01	SITE LAYOUT
M-01	SYSTEM DRAWING
M-01	WET WELL COMPONENTS
M-02	VALVE VAULT COMPONENTS



PUMP STATION DESIGN CRITERIA

PEAK INFLOW (GPM)	INFLUENT DEPTH (FT)	FORCE MAIN DIA. (IN)	FORCE MAIN LENGTH (FT)	FORCE MAIN TYPE	STATIC HEAD (FT)	TDH (FT)
214	24.72	4	1869	HDPE DR17 IPS	25.09	83

PUMP STATION CONFIGURATION

CONFIGURATION	DUTY PUMPS	STANDBY PUMPS	PUMP MODEL	PUMP HP	RATED FLOW (GPM)	RATED TDH (FT)	SYSTEM CAPACITY (GPM)
DUPLEX	1	1	FLYGT NP3127SH	11	214	83	223

ELECTRICAL INFORMATION

SYSTEM VOLTAGE	FLA	CONTROLLER	ENCLOSURE	TERMINATION	BACKUP SYSTEMS
240V, 3PH	147	SMARTRUN	NEMA 4X SS	DISCONNECT STAND	40KW DIESEL

FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY
5	11/19/25	FLOOR & INVERT ELEVATIONS	RD
4	8/11/25	1FT CONCRETE FLOOR	RD
3	3/24/25	LAUNCH DOCS	RD
2	5/12/25	SITE VISIT	RD
1	4/3/25	SSDS	RD

REVISION HISTORY

VERIFY SCALE
BAR MEASURES ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY
0 1"

DSN: RD
DRN: RD
CKD:
DATE: 4/3/25

ROMTEC UTILITIES
18240 NORTH BANK ROAD
ROSEBURG, OREGON 97470
PHONE: (541) 496-9678
WWW.ROMTECUTILITIES.COM

FORT STEVENS
HAMMOND, OR
WASTEWATER PUMP STATION
RETROFIT PACKAGE
TITLE

SHEET
G-01

ACCEPTED PUMP PERFORMANCE STANDARDS

A. ROMTEC UTILITIES PUMP EQUIPMENT FOR THIS SYSTEM TO MEET THE PROVIDED DESIGN CRITERIA. THE PUMP PERFORMANCE CURVE(S) SHOW THE PUMP ACHIEVING A PUMPING RATE IN GALLONS PER MINUTE (GPM) AT A SPECIFIC TOTAL DYNAMIC HEAD (TDH). THIS INDUSTRY STANDARDS FOR MEETING THIS TARGET POINT ARE AS FOLLOWS:

B. ALL PUMP MANUFACTURERS TEST PUMPS FOR ACCEPTANCE BASED ON ONE OF SEVERAL HYDRAULIC INSTITUTE PUMP ACCEPTANCE LEVEL STANDARDS. TYPICAL PUMP ACCEPTANCE STANDARDS INCLUDE A CERTAIN PERCENTAGE OF POSITIVE/NEGATIVE TOLERANCE FOR THE SPECIFIED FLOW AND TOTAL DYNAMIC HEAD.

C. THE PUMPS SHOULD PERFORM WITHIN THIS RANGE AS LONG AS THE TDH PROVIDED BY THE CUSTOMER IN THE GIVEN DESIGN CRITERIA IS TRUE AND CORRECT. WHEN ROMTEC UTILITIES CALCULATES THE TDH USING CUSTOMER SUPPLIED DOCUMENTS (E.G., FORCE MAIN PROFILES), AND THE ACTUAL FIELD CONDITIONS DIFFER FROM THE PROVIDED PLANS, ROMTEC UTILITIES CANNOT BE HELD RESPONSIBLE FOR PUMP PERFORMANCE ISSUES TIED TO CHANGES IN THE CALCULATED TO ACTUAL TDH.

NOT ALL ELECTRICAL COMPONENTS ARE SUBMERGENCE RATED

A. FLOW METERS, LIMIT SWITCHES, AND INTRUSION SWITCHES ARE EXAMPLES OF ELECTRICAL COMPONENTS THAT MAY NOT BE SUBMERGENCE RATED. THESE COMPONENTS WILL BE HOUSED IN A STRUCTURE THAT IS NOT INTENDED TO FILL WITH WATER AND HAS A MEANS FOR WATER EGRESS, SUCH AS A VAULT WITH A DRAINBACK PIPE.

B. WATER DAMAGE TO NON-SUBMERGENCE RATED ELECTRICAL COMPONENTS IS NOT COVERED UNDER THE ROMTEC UTILITIES WARRANTY. ROMTEC UTILITIES CAN ASSIST WITH THE REPLACEMENT OF DAMAGED COMPONENT(S), BUT ROMTEC UTILITIES IS NOT RESPONSIBLE FOR THE COST OF THE REPLACEMENT(S).

C. ANY POTTING KITS SUPPLIED BY ROMTEC UTILITIES MUST BE INSTALLED BY THE INSTALLING CONTRACTOR. IF WATER DAMAGE OCCURS TO ITEMS THAT SHOULD HAVE HAD A POTTING KIT INSTALLED, ROMTEC UTILITIES CAN ASSIST WITH REPLACING THE DAMAGED COMPONENT(S), BUT ROMTEC UTILITIES IS NOT RESPONSIBLE FOR THE COST OF THE REPLACEMENT(S).

FINAL CONCRETE DIMENSIONS

A. ACTUAL CONCRETE DIMENSIONS WILL BE WITHIN +/- 0.5" FOR MAJOR DIMENSIONS ON THE APPROVED PRODUCTION DRAWING(S) (LENGTH, WIDTH, HEIGHT; CORE LOCATIONS; WALL THICKNESS; ETC.). ROMTEC UTILITIES WILL NOT ACCEPT ANY CHARGES FOR FIELD ADJUSTMENTS OR ENGINEERED PLAN REVISIONS BASED ON THESE SLIGHT CHANGES TO CONCRETE DIMENSIONS IN THE FIELD.

NOTE: MANUFACTURERS OF PRECAST CONCRETE CANNOT PRODUCE ITEMS SUCH AS BARRELS, BASES, OR TOP SLABS TO EXACT DIMENSIONS MEASURED IN HUNDREDTHS OF AN INCH. THE PRODUCTION DRAWINGS MAY SHOW DIMENSIONS IN THE HUNDREDTHS OF AN INCH, BUT IT IS NOT REALISTIC TO CAST CONCRETE TO THOSE EXACT DIMENSIONS.

B. ALL CONCRETE JOINTS MUST BE THOROUGHLY CLEANED AND DRIED PRIOR TO APPLYING BUTYL SEALANT, CAULKING, AND/OR JOINT WRAP.

C. CORED HOLES FOR ELECTRICAL WIRING AND CONDUITS ARE **NOT** BY ROMTEC UTILITIES. THEY ARE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

OUTFALL DESIGN

A. ROMTEC UTILITIES IS NOT RESPONSIBLE FOR THE OUTFALL STRUCTURE AT THE DISCHARGE END OF THE FORCE MAIN. ROMTEC UTILITIES HAS NOT REVIEWED THE SIZE OF THE OUTFALL STRUCTURE TO DETERMINE ITS ABILITY TO HANDLE THE SYSTEM'S PUMPING RATE. REVIEW OF THE OUTFALL STRUCTURE FOR COMPATIBILITY WITH THIS SYSTEM IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.

B. ANY PROBLEMS WITH THE OUTFALL STRUCTURE DURING SYSTEM STARTUP AND GENERAL OPERATION ARE THE RESPONSIBILITY OF OTHERS, NOT ROMTEC UTILITIES.

STRUCTURAL AND MECHANICAL DISCLAIMERS

1. ROMTEC UTILITIES IS NOT RESPONSIBLE FOR STRUCTURAL OR LEAK TESTING

A. THE CUSTOMER IS RESPONSIBLE FOR ANY ONSITE HYDROSTATIC OR VACUUM TESTING OF UNDERGROUND STRUCTURES. THE ROMTEC UTILITIES WARRANTY TERMS REQUIRE THAT ANY AND ALL TESTING OF UNDERGROUND STRUCTURES OCCURS PRIOR TO BACKFILLING AROUND THE STRUCTURE(S).

B. ROMTEC UTILITIES RECOMMENDS THE FOLLOWING TEST METHODS IF NECESSARY:
   a. ASTM C497-05, SECTION 8, HYDROSTATIC TEST METHOD
   b. ASTM C497-05, SECTION 9, PERMEABILITY TEST METHOD

C. REPAIR OF CONCRETE STRUCTURES IS ALLOWABLE IF NECESSITATED BY DAMAGE THAT OCCURRED DURING SHIPPING. THE ROMTEC UTILITIES WARRANTY TERMS REQUIRE THAT ANY REPAIR TO CONCRETE STRUCTURES CONFORMS TO THE REQUIREMENTS OF ASTM C478-09, AND THAT ROMTEC UTILITIES BE NOTIFIED IF ANY REPAIRS ARE PLANNED.

D. ROMTEC UTILITIES STRONGLY RECOMMENDS AGAINST THE USE OF ANY TYPE OF CONCRETE AS BACKFILL MATERIAL.

2. ANY STRUCTURAL LEAKING FOUND DURING OR AFTER THE INSTALLATION OF UNDERGROUND STRUCTURES IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR

A. ROMTEC UTILITIES HAS MADE EVERY EFFORT IN THE SYSTEM DESIGN TO HELP THE INSTALLING CONTRACTOR ENSURE THAT UNDERGROUND STRUCTURES ARE WATER TIGHT. ALL PRECAST CONCRETE IS PRODUCED TO MEET OR EXCEED INDUSTRY STANDARDS, INCLUDING ASTM 318, ASTM 478, AND ASTM 857, AS APPLICABLE.

B. THE DESIGN OF THESE CONCRETE STRUCTURES INCLUDES MULTIPLE LAYERS OF LEAK PROOFING AT THE JOINTS BETWEEN THE BASE, BARRELS/RISERS, AND TOP SLAB AS SHOWN ON THE MECHANICAL AND STRUCTURAL DRAWINGS. THESE LAYERS TYPICALLY INCLUDE A COMBINATION OF BUTYL SEALANT, CAULKING, AND/OR JOINT WRAP.

ROMTEC UTILITIES

C. THE ROMTEC UTILITIES SYSTEM MAY ALSO INCLUDE KOR-N-SEALS, LINK SEALS, OR OTHER PIPE BOOT PRODUCTS. THESE ARE TO BE USED BY THE INSTALLING CONTRACTOR TO SEAL BETWEEN THE CORED HOLE(S) AND THE PIPING ENTERING THE STRUCTURE.

D. THE ROMTEC UTILITIES PLANS SHOW THE ALIGNMENT OF STRUCTURES IN RELATION TO EACH OTHER. INSTALLING CONTRACTORS ARE EXPECTED TO INSTALL STRUCTURES EXACTLY AS SPECIFIED. FOR EXAMPLE, THE CENTER LINE OF A WET WELL AND VALVE VAULT MUST ALIGN CORRECTLY FOR DISCHARGE PIPING TO ATTACH CORRECTLY. PROBLEMS ARISING FROM INCORRECTLY INSTALLED STRUCTURES AND/OR PIPING BETWEEN THE STRUCTURES ARE THE RESPONSIBILITY OF THE INSTALLER, NOT ROMTEC UTILITIES.

3. CONCRETE STRUCTURES LEAK FOR MANY REASONS DURING AND AFTER INSTALLATION

A. CONCRETE STRUCTURES MUST BE INSTALLED ON A COMPACTED, LEVEL FOUNDATION PER ASTM C1821-16. SPECIFICATION FOR THIS FOUNDATION IS SITE SPECIFIC, AND IS MADE BY OTHERS, NOT BY ROMTEC UTILITIES. ALL JOINTS BETWEEN STACKED CONCRETE SECTIONS MUST BE LEVEL AND EVENLY SUPPORTED. ANY LEANING OR UNEVENLY SUPPORTED STRUCTURES WILL RESULT IN MANY PROBLEMS, INCLUDING LEAKING AT THE JOINTS.

B. MOST STRUCTURAL LEAKS ORIGINATE AT CORED HOLES FOR PIPE PENETRATIONS. THE SYSTEM HAS BEEN DESIGNED SO THAT ALL PIPING ENTERING/EXITING THE STRUCTURE MUST PASS THROUGH PARALLEL TO THE CORED HOLE. IN OTHER WORDS, THE PIPING MUST GO STRAIGHT THROUGH CORED HOLES WITHOUT DEFLECTION. IF THE PIPING IS BROUGHT THROUGH ANY OF THE CORED HOLES AT AN ANGLE, THERE IS RISK OF LEAKING AT THAT LOCATION. IF FIELD CONDITIONS REQUIRE PIPING TO ENTER/EXIT THE STRUCTURE AT AN ANGLE, IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT THE PENETRATION IS WATER TIGHT.

C. AREAS OF HIGH GROUND WATER WILL TEST THE WATER TIGHTNESS OF ALL JOINTS AND PENETRATIONS IN THE STRUCTURE. INSTALLING CONTRACTORS SHOULD TAKE EXTRA PRECAUTIONS TO ENSURE WATER TIGHTNESS WHEN INSTALLING IN AN AREA WITH HIGH GROUND WATER.

D. HIGH GROUND WATER CAN BE SEASONAL, SO THE INSTALLER OR OWNER SHOULD CHECK THE STRUCTURES FOR LEAKS DURING WET MONTHS, ESPECIALLY AFTER AN INSTALLATION DURING A DRY PERIOD.

E. A LEAK IN A LINED OR COATED STRUCTURE MAY COMPOUND THE PROBLEM THAT A LEAK CREATES. INFLOWING WATER FROM THE LEAK CAN FLOW BETWEEN THE LINING/COATING AND THE CONCRETE, CREATING A SEPARATION THAT REQUIRES REPAIR. REPAIR CAN BECOME EVEN MORE DIFFICULT IF THE ACTUAL POINT OF INGRESS IS CONCEALED BY THE LINING/COATING. IN OTHER WORDS, THE ACTUAL POINT OF INGRESS MAY NOT BE THE SAME POINT WHERE THE LEAK SHOWS THROUGH THE LINING/COATING.

F. WHILE ROMTEC UTILITIES MAY SUPPLY AND/OR PRE-INSTALL THE LINING OR COATING, ROMTEC UTILITIES IS NOT RESPONSIBLE FOR ANY COST ASSOCIATED WITH REPAIR OF THE LINING/COATING DUE TO STRUCTURAL LEAKING.

4. PRECAST CONCRETE INSPECTIONS

A. IF REQUIRED, ANY CUSTOMER INSPECTION OF PRECAST CONCRETE MUST BE MADE AT THE PRECASTER FACILITY, NOT AFTER DELIVERY TO THE JOB SITE. IN OTHER WORDS, IF THE CUSTOMER REQUIRES ADDITIONAL CONCRETE INSPECTION, THIS MUST BE PERFORMED PRIOR TO WHEN THE CONCRETE LEAVES THE PRECASTER FACILITY FOR DELIVERY.

5. LININGS AND COATINGS OF CONCRETE

A. MOST CONCRETE COATINGS AND LININGS REQUIRE SIGNIFICANT CURE TIMES (TYPICALLY FOUR WEEKS). ROMTEC UTILITIES IS NOT RESPONSIBLE FOR CONSTRUCTION DELAYS CAUSED BY LINING/COATING CURE TIMES. INSTALLATION OF STRUCTURES THAT OCCURS BEFORE THE CURING PROCESS IS COMPLETE WILL VOID BOTH THE LINING/COATING MANUFACTURER'S WARRANTY AND THE ROMTEC UTILITIES WARRANTY.

B. ANY DAMAGE TO LININGS OR COATINGS THAT OCCURS DURING SHIPPING OR CONSTRUCTION IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO REPAIR OR REPLACE.

INSTALLATION INFO AND RECOMMENDATIONS

ROMTEC UTILITIES DELIVERS THE FOLLOWING ITEMS WITH A TYPICAL PRECAST CONCRETE WET WELL.

A. PRECAST WET WELL BASE ASSEMBLY - THE BASE ARRIVES READY TO BE PLACED ON THE COMPACTED FOUNDATION (AS APPROVED BY THE SITE ENGINEER)

B. PRECAST WET WELL BARRELS - ALL PIPE PENETRATIONS SHOWN ON THE COMPONENT DRAWING(S) ARE PRE-CORED UNLESS OTHERWISE NOTED. PIPE BOOTS ARE PROVIDED FOR USE IN SEALING THE CORED HOLES.

C. PRECAST WET WELL TOP SLAB - THE TOP SLAB WILL INCLUDE THE PRE-INSTALLED HATCH AND IS READY TO BE PLACED.

D. ACCESSORY PALLET - THE PALLET INCLUDES THE FOLLOWING:
   a. BUTYL SEALANT, CAULKING, AND OR JOINT WRAP FOR CONCRETE JOINTS
   b. DISCHARGE PIPING
   c. GUIDE RAILS AND BRACKETS
   d. LEVEL SENSING DEVICES

NOTE: THE SUPPLIED DISCHARGE PIPING AND GUIDE RAILS ARE INTENTIONALLY TOO LONG. THE INSTALLING CONTRACTOR IS EXPECTED TO MEASURE THE PIPING AND TRIM TO FIT AS NEEDED. THE CONTRACTOR MUST ALSO PLUMB THE DISCHARGE PIPING AND SECURE IT TO THE PRE-INSTALLED BRACKET(S).

ROMTEC UTILITIES STRONGLY RECOMMENDS THAT THE INSTALLING CONTRACTOR PROVIDE THE FOLLOWING ITEMS DURING DELIVERY AND INSTALLATION

A. A PERSON ONSITE WHOSE SOLE RESPONSIBILITY IS TO BE IN CHARGE OF SAFETY

B. APPROPRIATE SHORING OF EXCAVATIONS TO PROVIDE A SAFE WORKSPACE

C. AN APPROPRIATELY SIZED CRANE FOR OFFLOADING AND PLACING CONCRETE SECTIONS.

D. AN APPROPRIATELY SIZED FORKLIFT FOR OFFLOADING PALLETS AND/OR CONTROL PANEL COMPONENTS

E. IDENTIFICATION OF ALL OVERHEAD OBSTRUCTIONS PRIOR TO DELIVERY

F. A SECURE COVERED AREA FOR STORING THE ACCESSORY PALLET, CONTROL PANEL, AND PUMPS. IF THIS AREA IS OFFSITE, AN APPROPRIATE TRANSPORTATION VEHICLE WILL BE REQUIRED TO MOVE THESE ITEMS TO THE SECURE LOCATION UNTIL FINAL INSTALLATION.

Please see the link below for typical installation recommendations:
http://romtecutilities.com/wp-content/uploads/2022/06/Lift-Station-Mechanical-Install-Recommendations-6-20-22.pdf

Please see the link below for standard system startup/testing information:
http://romtecutilities.com/wp-content/uploads/2022/06/Lift-Station-Startup-Testing-Training-Services-6-20-22.pdf

RECOMMENDED LIFTING METHOD FOR PRECAST CONCRETE

A. ALL CONCRETE COMPONENTS ARE DESIGNED TO BE LIFTED AND PLACED BY USE OF THE PRE-INSTALLED ANCHORS AND LIFTING GEAR.

B. PRIOR TO PLACING THE CONCRETE COMPONENTS, ENSURE THAT THE EXCAVATION AND COMPACTED FOUNDATION IS COMPLETE AS SPECIFIED BY THE SITE ENGINEER. THE FOUNDATION MUST NOT ALLOW THE STRUCTURE TO SETTLE OR TILT DURING OR AFTER INSTALLATION.

C. PROVIDE A SAFE, OSHA-APPROVED METHOD OF CAVE-IN PROTECTION (SHORING).

D. USE LIFTING EQUIPMENT OF THE APPROPRIATE SIZE AND CAPACITY. FOR EXAMPLE, A PARTICULARLY HEAVY ITEM SHOULD BE LIFTED USING ONE APPROPRIATELY SIZED CRANE, NOT BY USING TWO UNDERSIZED EXCAVATORS.

NOTE: THE INSTALLING CONTRACTOR IS EXPECTED TO KNOW AND USE INDUSTRY BEST PRACTICES FOR LIFTING AND PLACING PRECAST CONCRETE.

E. THE INSTALLING CONTRACTOR IS EXPECTED TO PROVIDE THE APPROPRIATE LIFTING CABLES, STRAPS, OR CHAINS, AS WELL AS CONNECTION DEVICES TO ATTACH THE CABLES TO THE CRANE AND LIFTING CLUTCHES.

F. ALL LIFTING CABLES, STRAPS, OR CHAINS MUST BE LONG ENOUGH TO PREVENT RIGGING FROM PUTTING LATERAL PRESSURE ON ANY OF THE LIFT ANCHORS. ROMTEC UTILITIES RECOMMENDS THE USE OF A SPREADER BAR WHENEVER THE CABLE LENGTH IS QUESTIONABLE. DAMAGE RESULTING FROM FAILURE TO FOLLOW THIS RECOMMENDATION WILL NOT BE COVERED BY ROMTEC UTILITIES.

G. SEE THE CONCRETE PRODUCTION DRAWINGS FOR WEIGHT OF INDIVIDUAL COMPONENTS.

OFFLOADING AND STORING CONCRETE

A. ALL OFFLOADED CONCRETE THAT IS NOT IMMEDIATELY PLACED IN ITS FINAL INSTALLATION LOCATION MUST BE APPROPRIATELY STORED ON LEVEL DUNNAGE WITH EVEN, REGULAR SUPPORT UNDER THE CONCRETE, NOT DIRECTLY ON UNEVEN GROUND OR WITH UNEVEN, IRREGULAR SUPPORT. DAMAGE CAUSED BY FAILURE TO FOLLOW THIS RECOMMENDATION WILL NOT BE COVERED BY ROMTEC UTILITIES.

B. ALL CONCRETE THAT IS TEMPORARILY STORED PRIOR TO FINAL INSTALLATION SHOULD BE THOROUGHLY CLEANED BEFORE IT IS STACKED. FAILURE TO CLEAN CONCRETE JOINTS PRIOR TO STACKING CAN RESULT IN SEALANT FAILURE AND LEAKS. ROMTEC UTILITIES WILL NOT WARRANTY STRUCTURES THAT ARE NOT CLEAN AND DRY PRIOR TO INSTALLATION.

RECOMMENDATIONS FOR EXTENDED PUMP STORAGE

A. NEVER STORE PUMPS IN THE WET WELL PRIOR TO START-UP. STORE PUMPS IN AN UPRIGHT POSITION IN A CLEAN, DRY LOCATION FREE FROM TEMPERATURE EXTREMES AND DIRECT SUNLIGHT.

B. ONCE DURING EVERY MONTH OF STORAGE, THE PUMP IMPELLERS SHOULD BE MANUALLY ROTATED BY HAND TO ENSURE FREE MOVEMENT OF ALL ROTATING PARTS (SEALS, BEARINGS, AND IMPELLERS). ADD SILICONE SPRAY OR RUST-INHIBITING OIL TO THE LOWER CASING, COMPLETELY COATING THE IMPELLER AND INSIDE OF THE LOWER CASE. ALSO FULLY COAT THE DISCHARGE FLANGE FACE.

C. PROTECT PUMP CABLES FROM DAMAGE AND MOISTURE. CABLES SHOULD BE STORED SO THAT THERE IS NO TENSION ON THE CABLE ENTRY POINT INTO THE PUMP. THE FREE END OF THE CABLE MUST BE PROTECTED FROM MOISTURE AT ALL TIMES. NEVER LIFT A PUMP BY THE CABLE.

D. THE PUMP MANUFACTURER MAY HAVE MORE STORAGE AND HANDLING RECOMMENDATIONS.

INSTALLATION AND BACKFILL RECOMMENDATIONS

A. ALL EXCAVATIONS MUST BE KEPT DRY DURING INSTALLATION. THIS MAY REQUIRE THE USE OF MULTIPLE DEWATERING PUMPS.

B. PRECAST CONCRETE SECTIONS MUST BE LEVEL WHEN PLACED ON THE COMPACTED BASE. THIS COMPACTED BASE IS SPECIFIED BY THE SITE ENGINEER AND/OR GEOTECHNICAL REPORT. ROMTEC UTILITIES STRONGLY RECOMMENDS THAT THE BASE BE THOROUGHLY CLEANED AND TRANSIT-LEVELLED.

C. A SAFE WORKING AREA WILL BE REQUIRED AROUND THE PLACED STRUCTURE FOR THE INSTALLING CONTRACTOR TO APPLY THE SEALANT AND/OR JOINT WRAP.

D. ALL JOINTS MUST BE KEPT CLEAN AND DRY WHILE SEALANT AND/OR JOINT WRAP ARE BEING APPLIED.

E. JOINT SEALANTS SHOULD BE APPLIED PER THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. WHEN APPLYING SEALANT, MAKE SURE TO REMOVE THE PAPER BACKING AND MOLD/KNEAD CUT ENDS TOGETHER TO FORM ONE PIECE.

F. SEALANT SHOULD COMPRESS A MINIMUM OF 50% PRIOR TO ANY BACKFILLING. COLD WEATHER MAY DELAY THE TIME IT TAKES TO ACHIEVE PROPER COMPRESSION. IF BACKFILL IS ADDED PRIOR TO SEALANT COMPRESSION, IT MAY PREVENT FULL COMPRESSION AND RESULT IN LEAKS. ROMTEC UTILITIES IS NOT RESPONSIBLE FOR ANY LEAKS RESULTING FROM FAILURE TO FOLLOW THESE RECOMMENDATIONS.

G. PUSHING/PULLING OR MANUAL COMPRESSION OF CONCRETE SECTIONS WITH AN EXCAVATOR IS **NOT** RECOMMENDED. IF CONCRETE SECTIONS ARE MOVED OR REMOVED AFTER PLACEMENT, SEALANT MUST BE REAPPLIED.

H. SUITABLE BACKFILL MATERIAL (PER THE SITE ENGINEER AND/OR GEOTECHNICAL REPORT) MUST BE USED TO AVOID ANY DAMAGE OR SHIFTING OF CONCRETE SECTIONS. ROMTEC UTILITIES STRONGLY ADVISES AGAINST USING ANY TYPE OF CONCRETE AS BACKFILL MATERIAL. POTENTIAL FOR DAMAGE DURING INSTALLATION IS GREATLY INCREASED WITH CONCRETE AS BACKFILL MATERIAL. CONCRETE BACKFILL ALSO SEVERELY LIMITS ACCESS TO PIPING FOR FUTURE MAINTENANCE.

I. BACKFILL MUST BE PLACED EVENLY AROUND THE STRUCTURE IN A MAXIMUM OF 12" COMPACTED LIFTS WITHIN 1' OF THE WALL. FAILURE TO FOLLOW THIS METHOD CAN RESULT IN UNEVEN PRESSURE ON THE CONCRETE STRUCTURE, RESULTING IN SHIFTING OF JOINTS AND/OR PIPING THAT EVENTUALLY CAUSES LEAKING. ROMTEC UTILITIES WILL NOT COVER LEAKS THAT RESULT FROM FAILURE TO FOLLOW THESE RECOMMENDATIONS.

J. USE CAUTION WHEN ADDING BACKFILL MATERIAL TO ENSURE THAT NO PRESSURE OR FORCE IS APPLIED TO THE CONCRETE STRUCTURE, ESPECIALLY NEAR JOINTS OR PIPING.

K. IF HYDROSTATIC OR VACUUM TESTING IS REQUIRED, IT MUST BE PERFORMED PRIOR TO BACKFILLING. ANY LEAKS DISCOVERED AFTER BACKFILLING AROUND THE STRUCTURE ARE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

ACCESS HATCHES

ALL ACCESS HATCHES REQUIRE 50LBS OR LESS FORCE TO OPEN UNLESS MARKED AS "TWO-PERSON LIFT".

REV	DATE	DESCRIPTION	BY
5	11/19/25	FLOOR & INVERT ELEVATIONS	RD
4	8/11/25	1FT CONCRETE FLOOR	RD
3	3/24/25	LAUNCH DOCS	RD
2	5/12/25	SITE VISIT	RD
1	4/3/25	SSDS	RD

REVISION HISTORY

VERIFY SCALE
IF BAR MEASURES LESS THAN 1" THEN DRAWING IS NOT AT INTENDED SCALE
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST PRINTER ACCORDINGLY

DSN: RD
DRN: RD
CKD:
DATE: 4/3/25

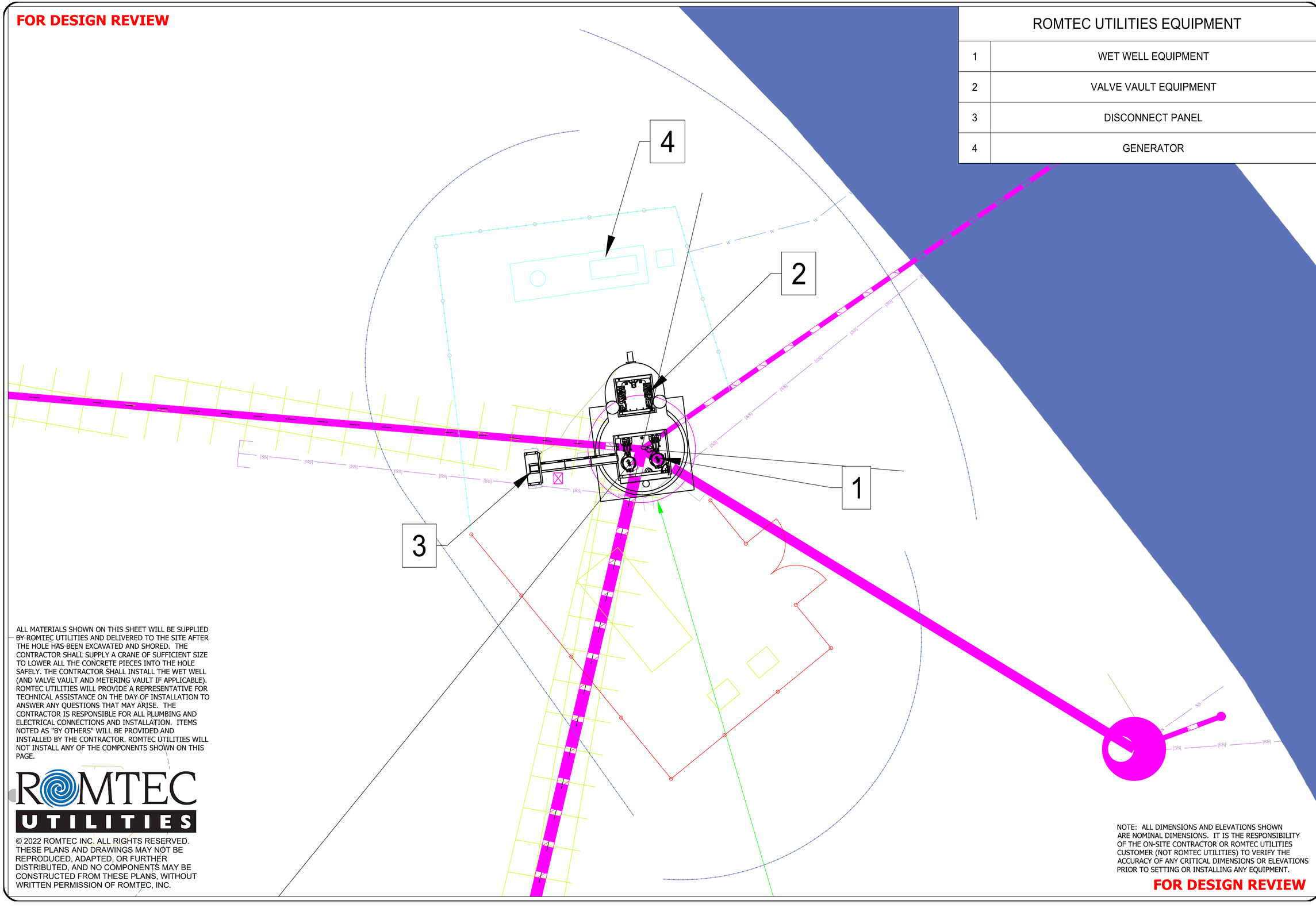
ROMTEC UTILITIES
18240 NORTH BANK ROAD
ROSEBURG, OREGON 97470
PHONE: (541) 496-9678
WWW.ROMTECUTILITIES.COM

FORT STEVENS
HAMMOND, OR
WASTEWATER PUMP STATION
RETROFIT PACKAGE
NOTES

SHEET
G-02

FOR DESIGN REVIEW

ROMTEC UTILITIES EQUIPMENT	
1	WET WELL EQUIPMENT
2	VALVE VAULT EQUIPMENT
3	DISCONNECT PANEL
4	GENERATOR



ALL MATERIALS SHOWN ON THIS SHEET WILL BE SUPPLIED BY ROMTEC UTILITIES AND DELIVERED TO THE SITE AFTER THE HOLE HAS BEEN EXCAVATED AND SHORED. THE CONTRACTOR SHALL SUPPLY A CRANE OF SUFFICIENT SIZE TO LOWER ALL THE CONCRETE PIECES INTO THE HOLE SAFELY. THE CONTRACTOR SHALL INSTALL THE WET WELL (AND VALVE VAULT AND METERING VAULT IF APPLICABLE). ROMTEC UTILITIES WILL PROVIDE A REPRESENTATIVE FOR TECHNICAL ASSISTANCE ON THE DAY OF INSTALLATION TO ANSWER ANY QUESTIONS THAT MAY ARISE. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING AND ELECTRICAL CONNECTIONS AND INSTALLATION. ITEMS NOTED AS "BY OTHERS" WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. ROMTEC UTILITIES WILL NOT INSTALL ANY OF THE COMPONENTS SHOWN ON THIS PAGE.

ROMTEC UTILITIES

NOTE: ALL DIMENSIONS AND ELEVATIONS SHOWN ARE NOMINAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE ON-SITE CONTRACTOR OR ROMTEC UTILITIES CUSTOMER (NOT ROMTEC UTILITIES) TO VERIFY THE ACCURACY OF ANY CRITICAL DIMENSIONS OR ELEVATIONS PRIOR TO SETTING OR INSTALLING ANY EQUIPMENT.

FOR DESIGN REVIEW

REV	DATE	DESCRIPTION	BY
1	4/3/25	SSDS	RD

REVISION HISTORY

VERIFY SCALE
DRAWING HAS BEEN ORIGINALLY PLOTTED ON 11"X17" SHEET AT A SCALE OF 1/8" EQUALS ONE INCH
0 1"
IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY

DSN: RD
DRN: RD
CKD:
DATE: 4/3/25

ROMTEC UTILITIES
18240 NORTH BANK ROAD
ROSEBURG, OREGON 97470
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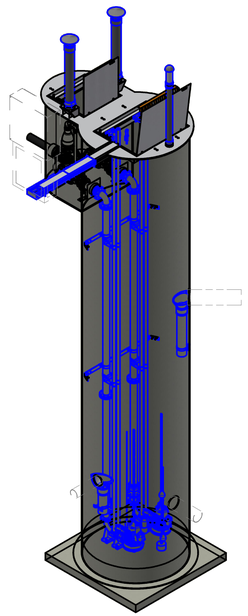
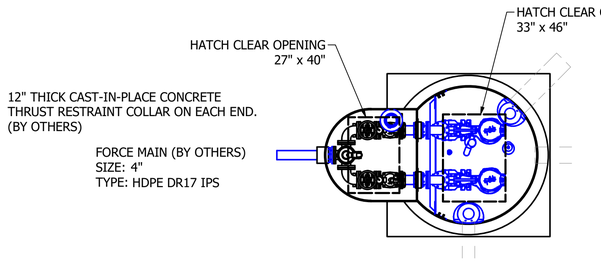
FORT STEVENS
HAMMOND, OR
WASTEWATER PUMP STATION
LAYOUT

SHEET
C-01

FOR CONSTRUCTION





SECTION B-B
SCALE 1 / 40

PRIMARY SENSOR ELEVATION TABLE		
DESCRIPTION	ELEVATION	Δ
INFLUENT INVERT	9.74'	0.08'
HIGH LEVEL ALARM	9.66'	0.5'
LAG PUMP START	9.16'	0.5'
LEAD PUMP START	8.66'	1'
PUMP STOP	7.66'	1.5'
WELL FLOOR	6.16'	

MISC. ELEVATION TABLE	
DESCRIPTION	ELEVATION
(FLOAT) HL ALARM	10.16'
(FLOAT) LL ALARM	7.16'
N/A	N/A'
N/A	N/A'
N/A	N/A'
N/A	N/A'

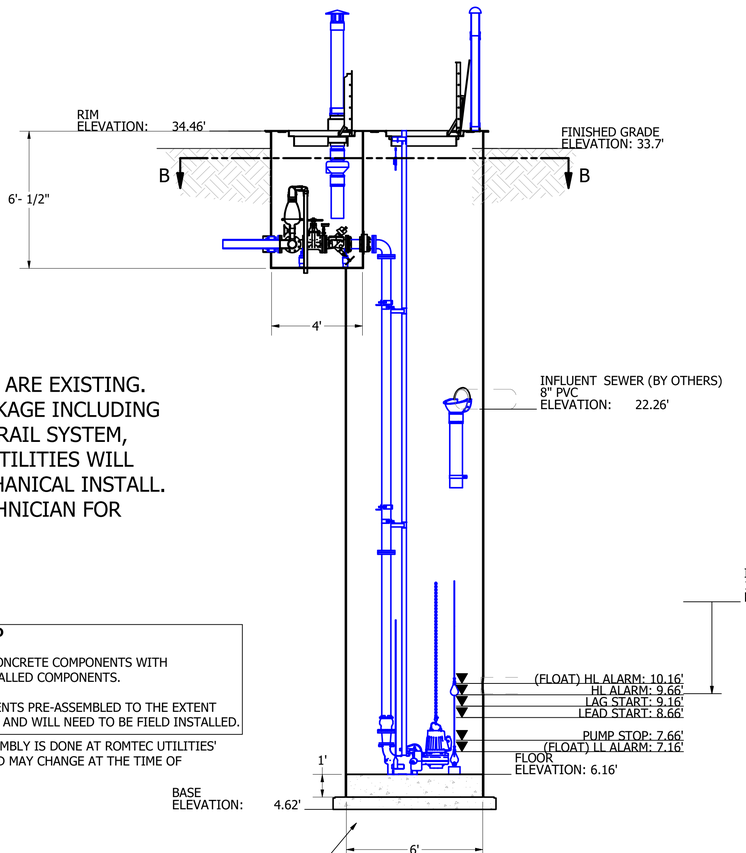
NOTE: TOP SLAB AND HATCH ARE PEDESTRIAN RATED

PUMP PACKAGE

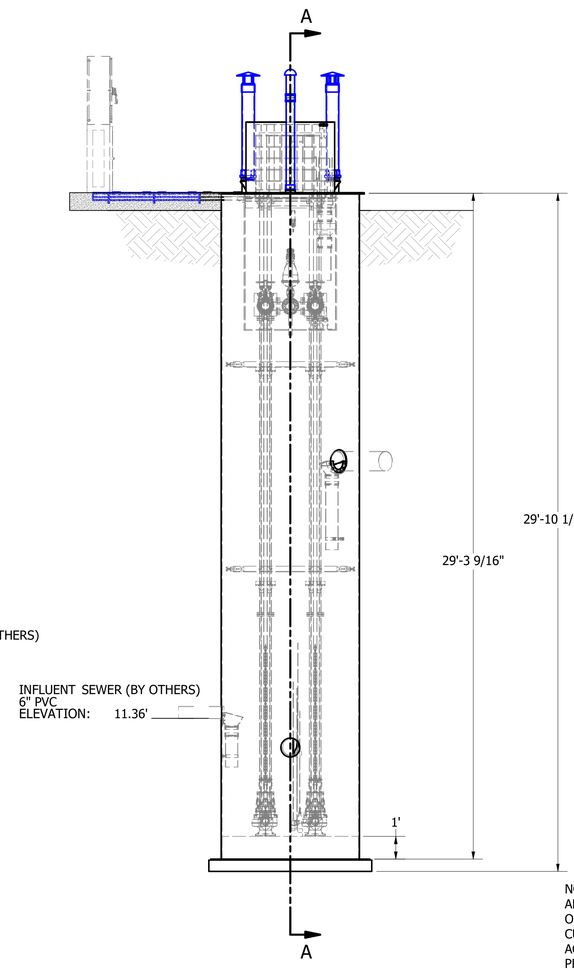
CONFIGURATION: DUPLEX
MODEL: FLYGT NP3127SH
HP: 11HP
DUTY POINT: 214GPM @ 83TDH

FEATURES

HATCH: PEDESTRIAN
DISCHARGE PIPING: 4" DI
PRIMARY LEVEL SENSING: PRESSURE TRANSDUCER
BACKUP LEVEL SENSING: 2 FLOATS
STAINLESS STEEL GUIDE RAILS
QUICK CONNECT DISCHARGE ELBOWS
RETROFIT PACKAGE FOR EXISTING 6' DIA. WELL
W/ PRE-ASSEMBLED VALVE ASSEMBLY
VALVE VAULT BLOWER FAN
DISCONNECT STAND & CABLE TRAY



SECTION A-A
SCALE 1 / 40



NOTE:
CONDUIT TO CONTROL PANEL (BY OTHERS)
MINIMUM:
(2) FOR POWER
(1) FOR LEVEL SENSING

NOTE: FIBERGLASS WET WELL AND CONCRETE PAD ARE EXISTING. ROMTEC UTILITIES WILL PROVIDE A RETROFIT PACKAGE INCLUDING NEW VALVE ASSEMBLY, DISCHARGE PIPING, GUIDE RAIL SYSTEM, PUMPS, LEVEL SENSING AND CONTROLS. ROMTEC UTILITIES WILL PROVIDE AN INSTALLATION ADVISOR DURING MECHANICAL INSTALL. ROMTEC UTILITIES WILL PROVIDE A START-UP TECHNICIAN FOR START-UP, COMMISSIONING, AND TRAINING.

ITEMS BY OTHERS:
INSTALLATION OF NEW EQUIPMENT
DEMOLITION OF EXISTING EQUIPMENT
EXCAVATION, SHORING, ETC
CONDUIT AND FIELD WIRING
SITE LIGHTING, FENCING, ETC

COLOR LEGEND

- MAJOR CONCRETE COMPONENTS WITH PRE-INSTALLED COMPONENTS.
- COMPONENTS PRE-ASSEMBLED TO THE EXTENT POSSIBLE AND WILL NEED TO BE FIELD INSTALLED.

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FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY
5	11/19/25	FLOOR & INVERT ELEVATIONS	RD
4	8/11/25	1FT CONCRETE FLOOR	RD
3	3/24/25	LAUNCH DOCS	RD
2	5/12/25	SITE VISIT	RD
1	4/3/25	SSDS	RD

REVISION HISTORY

VERIFY SCALE
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALE ACCORDINGLY
0 — 1"

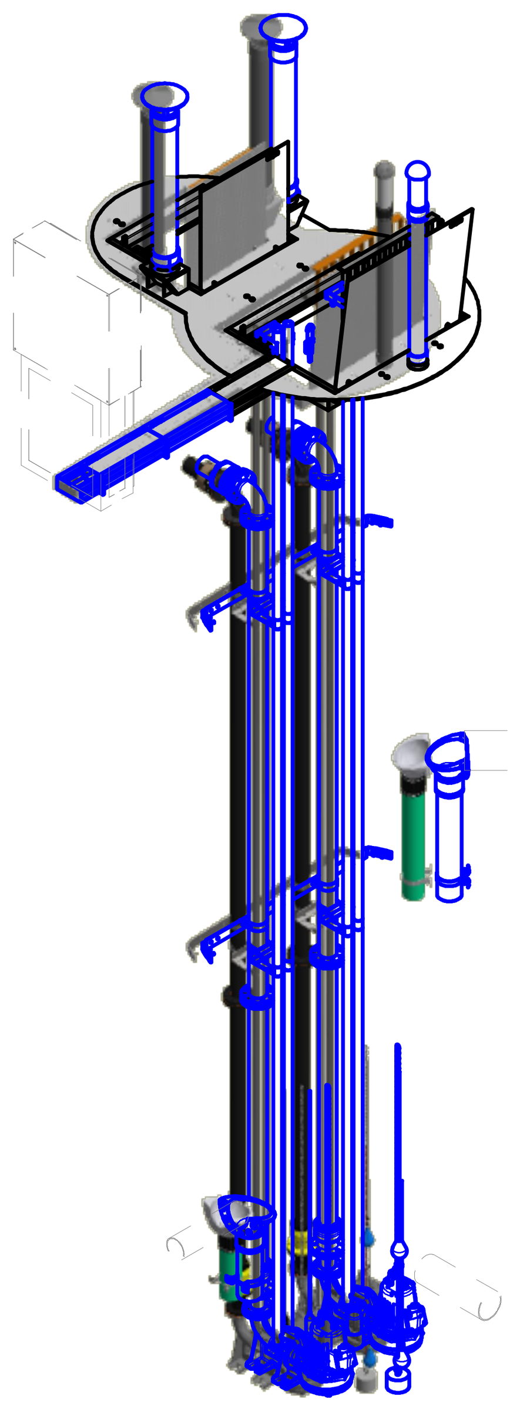
DSN: RD
DRN: RD
CKD:
DATE: 4/3/25

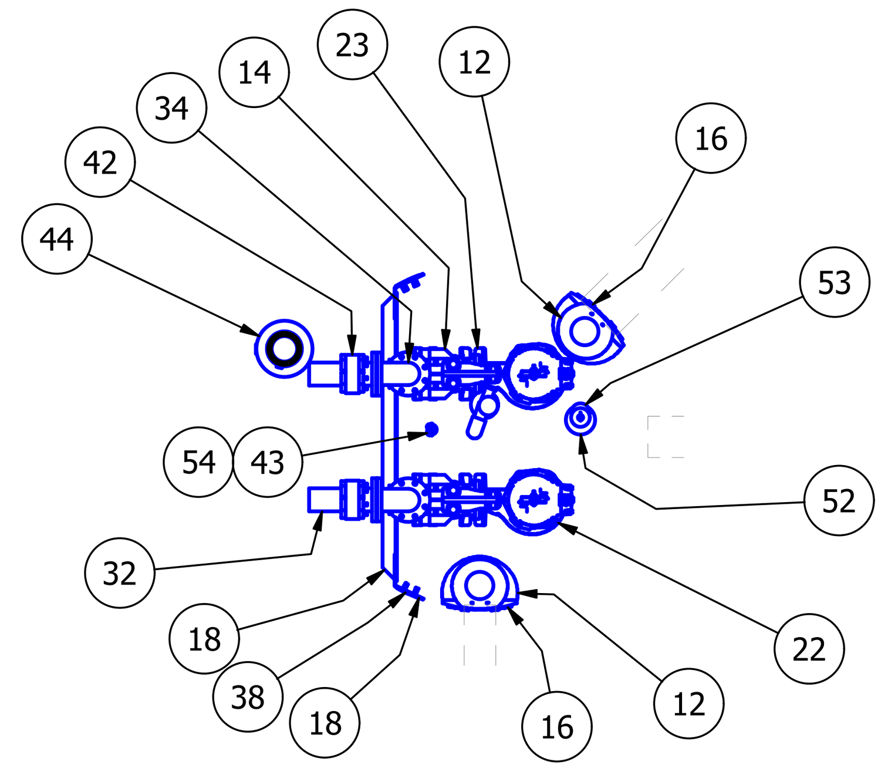
ROMTEC UTILITIES
18240 NORTH BANK ROAD
ROSEBURG, OREGON 97470
PHONE: (541) 496-9678
WWW.ROMTECUTILITIES.COM

FORT STEVENS
HAMMOND, OR
WASTEWATER PUMP STATION
RETROFIT PACKAGE
SYSTEM DRAWING

SHEET
M-01

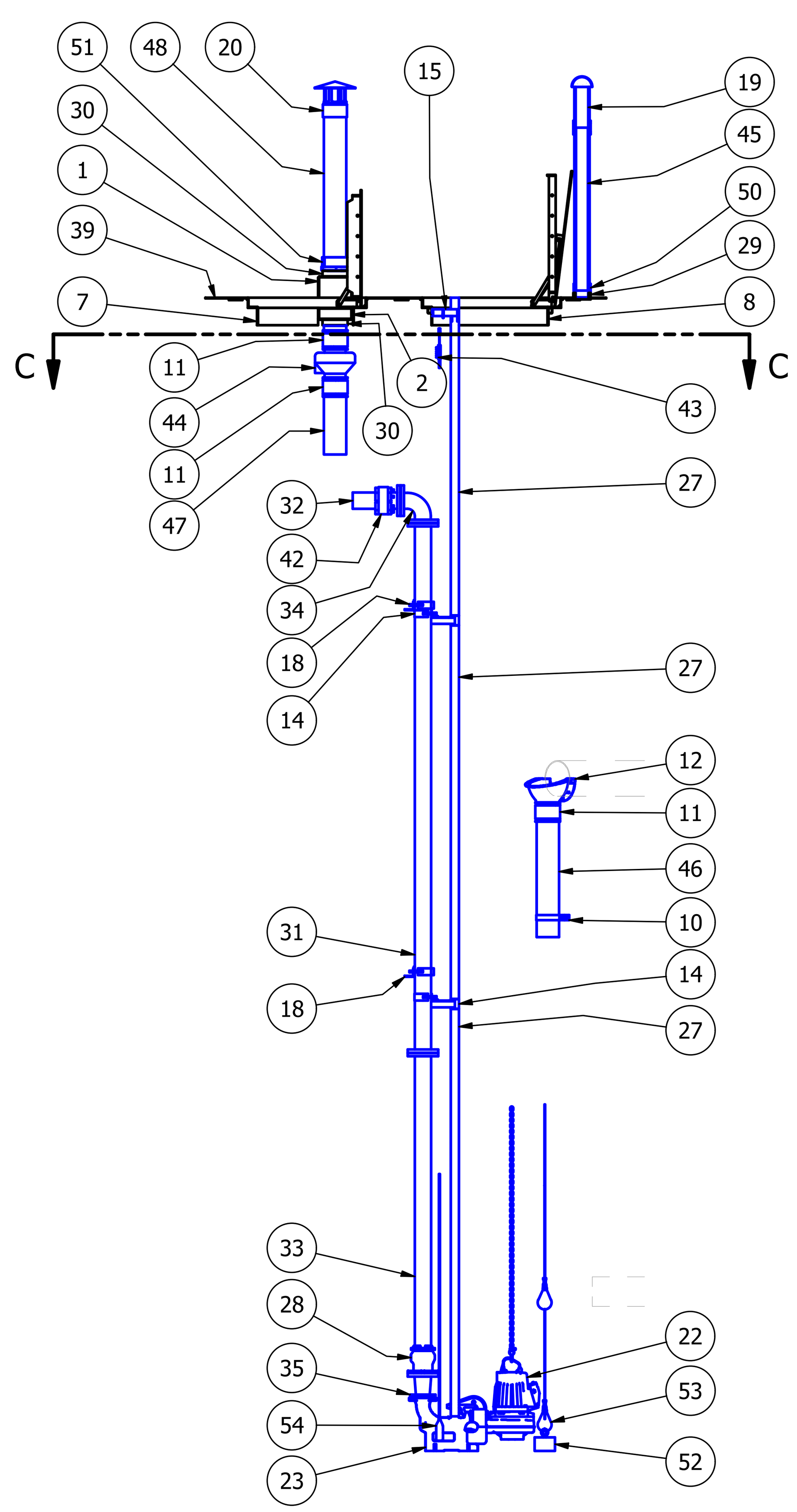
FOR CONSTRUCTION



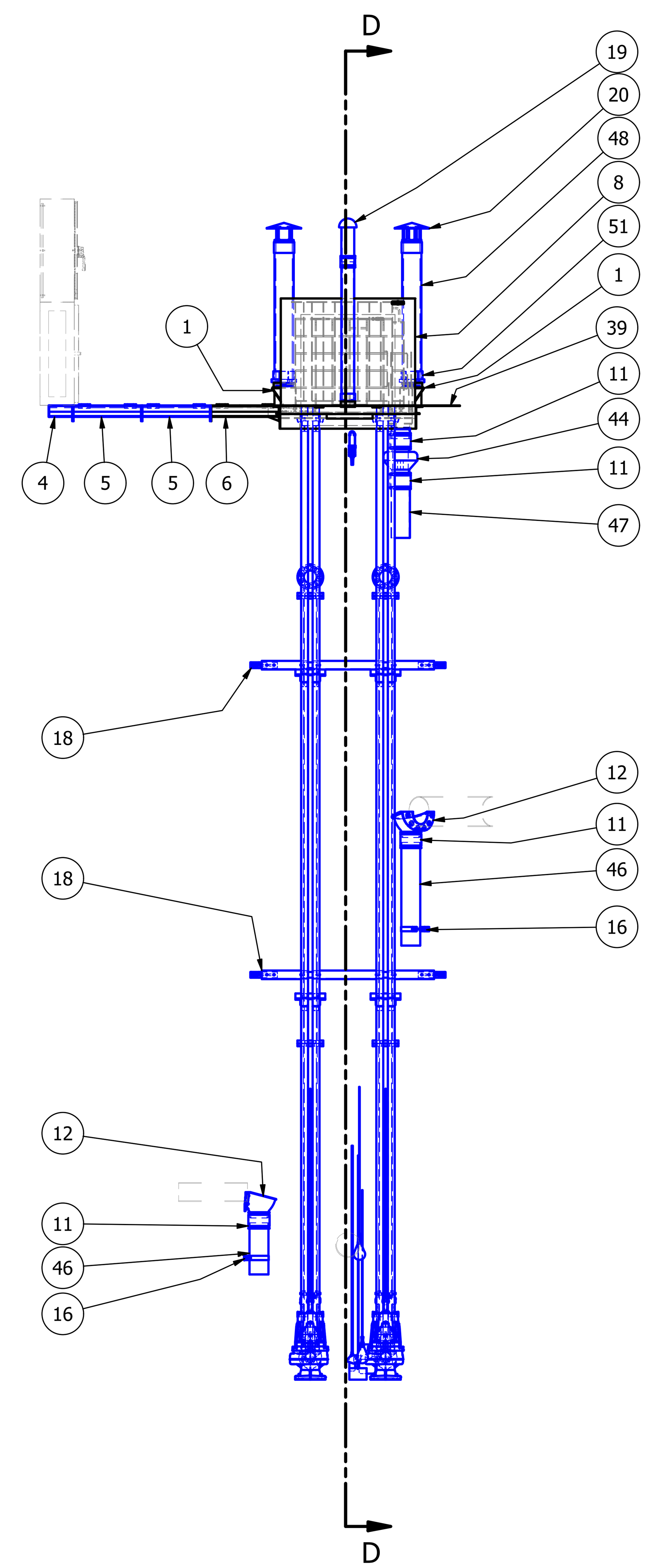


SECTION C-C
SCALE 1 / 40

PARTS LIST			
ITEM	QTY	STOCK NUMBER	DESCRIPTION
1	2	13-19191919	UPPER VENT BOX
2	1	13-29292929	LOWER INLET VENT BOX
3	1	13-39393939	OUTLET LOWER VENT BOX
4	1	13-CA0608EC	END CAP - 6in WIDE - CABLE TRAY EXT - 8in LONG
5	2	13-CAEX0624	CABLE TRAY - EXTENSION - 6in WIDE - 24in
6	1	13-CAEX0624	CABLE TRAY - EXTENSION - 6in WIDE - 24in
7	1	13-HH04HD0U	HATCH - PED - 4ft
8	1	13-HH06PD0U	HATCH - PEDESTRIAN - 6ft
9	1	13-KY000000	HATCH KEY
10	2	15-BR06SS35	BRACKET - 316SS - 6in PIPE
11	4	15-CP060000	COUPLING - FERNCO - 6in
12	2	15-DB410668	DROP BOWL - 4" THRU 10" INLET X 6" OUTLET (6-8FT WET WELL)
13	2	17-AC38000B	BOLT KIT - UPPER GUIDE BAR BRACKET & PUMP CHAIN MOUNT
14	4	17-IG02S6FL	BRACKET - 316SS - INTERMEDIATE GUIDE BAR - 2in - FLYGT
15	2	17-UG0200FL	BRACKET - 316SS - UPPER GUIDE BAR - 2in
16	16	18-99999999	5/16in X 1in X 1 1/2in Adhesive-Mount Studs
17	4	18-AC00CH00	CABLE HANGER ASSEMBLY - 316SS
18	2	18-BR000000	BRACKET ASSEMBLY - 316SS - DISCHARGE SUPPORT
19	1	18-VT04OHOG	VENT - CLAMP ON - 4in - ODOR HOG
20	2	18-VT060WCA	VENT - 6in PVC - WEATHER CAP
21	1	30-MFVFLYGT	MIX FLUSH VALVE - FLYGT
22	2	30-PU0000FL	PUMP - FLYGT - NP3127SH
23	2	31-EL0300FL	DISCHARGE ELBOW - 3in x 3in - FLYGT
24	2	32-AC0000FL	PUMP LIFTING SLING - 316SS
25	2	32-CGSS000D	CABLE SUPPORT GRIP - 304SS - 0.75in-0.99in
26	1	32-PLGE0000	GRIP EYE UNIT
27	127.3 ft	40-PP0200S6	PIPE - 316SS SCH40 - 2in DIA
28	2	44-AD04RMAL	FLANGE ADAPTER - 4in - ALPHA
29	1	44-CP040HAL	HALF COUPLING - ALUM - 4in FNPT
30	3	44-CP060HAL	HALF COUPLING - ALUM - 6in FNPT
31	2	45-FF041560	SPOOL - DI - 4in DIA x 156in - FLGxFLG
32	2	45-FP040140	SPOOL - DI - 4in DIA x 14in - FLGxPE
33	2	45-FP041560	SPOOL - DI - 4in DIA x 156in - FLGxPE
34	2	46-EL0490DI	ELBOW - DI - 4in x 90deg - FLGxFLG
35	2	48-RD0403DC	REDUCER - DI - 4in x 3in - CONCENTRIC
36	2	49-GS030000	GASKET - SBR - 3in FULL FACE
37	6	49-GS040000	GASKET - SBR - 4in FULL FACE
38	4	50-99999999	DISC BRACKET - ADHESIVE STUDS
39	1	50-SH999999	TOP PLATE - ALUMINUM
40	1	51-AC00NSTB	NEVER SIEZE - TUBE
41	4	55-EPX08120	STRUCTURAL ADHESIVE - MA8120
42	2	59-LS0408DI	LINK SEAL - 4in X 8in - DI - LS-410-S-316-7
43	1	62-CG00PT00	CORD GRIP - PRESSURE TRANSDUCER - WEDGE CLAMP
44	1	62-FN06FX10	DUCT FAN - 6in INLINE
45	4.0 ft	70-PP0400P8	PIPE - PVC SCH80 - 4in DIA
46	4.5 ft	70-PP0600DR	PIPE - PVC SDR35 - 6in DIA
47	1.5 ft	70-PP0600P4	PIPE - PVC SCH40 - 6in DIA
48	8.0 ft	70-PP0600P8	PIPE - PVC SCH80 - 6in DIA
49	1	70-TT0612P8	NIPPLE - PVC SCH80 - 6in DIA x 12in
50	1	74-AD04008M	ADAPTER - PVC SCH80 - 4in - SLIP x MNPT
51	2	74-AD06008M	ADAPTER - PVC SCH80 - 6in - SLIP x MNTP
52	1	80-ACANCHOR	LEVEL SENSOR ANCHOR ASSEMBLY
53	2	80-FS0ENM10	FLOAT - FLYGT ENM-10
54	1	80-PTLTU801	PRESSURE TRANSDUCER - 30ft CABLE - FLYGT LTU 801



SECTION D-D
SCALE 1 / 40



COLOR LEGEND

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ROMTEC UTILITIES

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FOR CONSTRUCTION

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2	5/12/25	SITE VISIT	RD
1	4/3/25	SSDS	RD

REVISION HISTORY

VERIFY SCALE — 0 — 1"

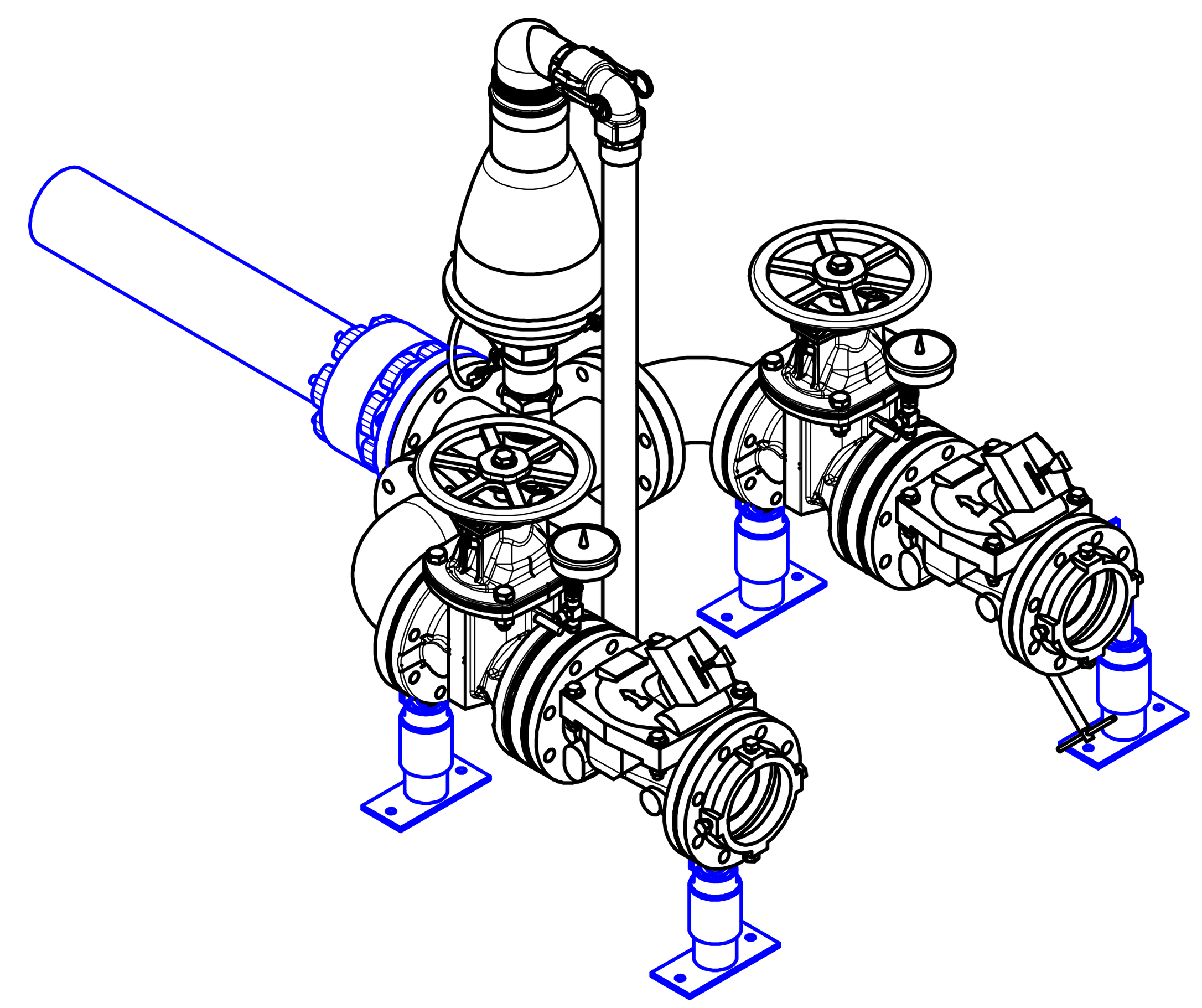
DSN: RD
DRN: RD
CKD:
DATE: 4/3/25

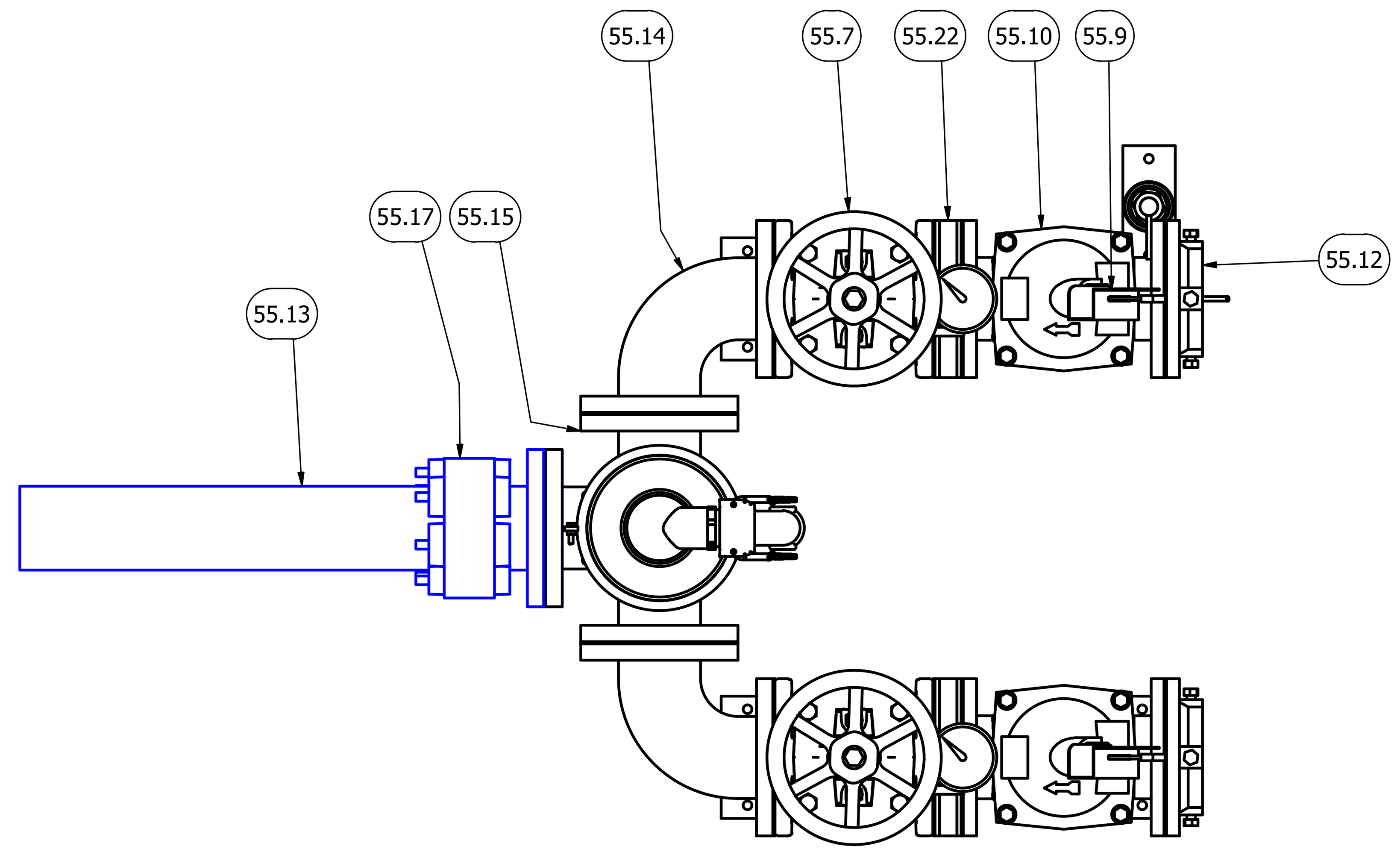
ROMTEC UTILITIES
18240 NORTH BANK ROAD
ROSEBURG, OREGON 97470
PHONE: (541) 496-9678
WWW.ROMTECUTILITIES.COM

FORT STEVENS
HAMMOND, OR
WASTEWATER PUMP STATION
RETROFIT PACKAGE
WET WELL COMPONENTS

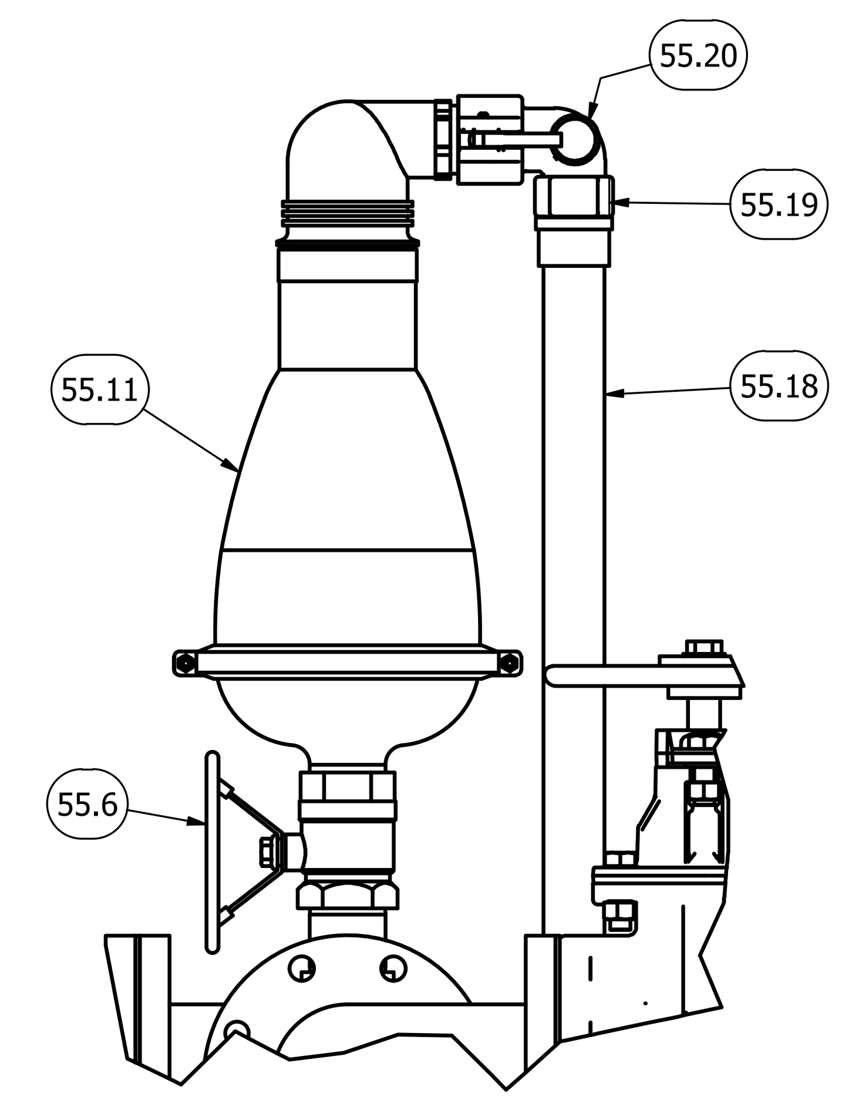
SHEET
M-01

FOR CONSTRUCTION

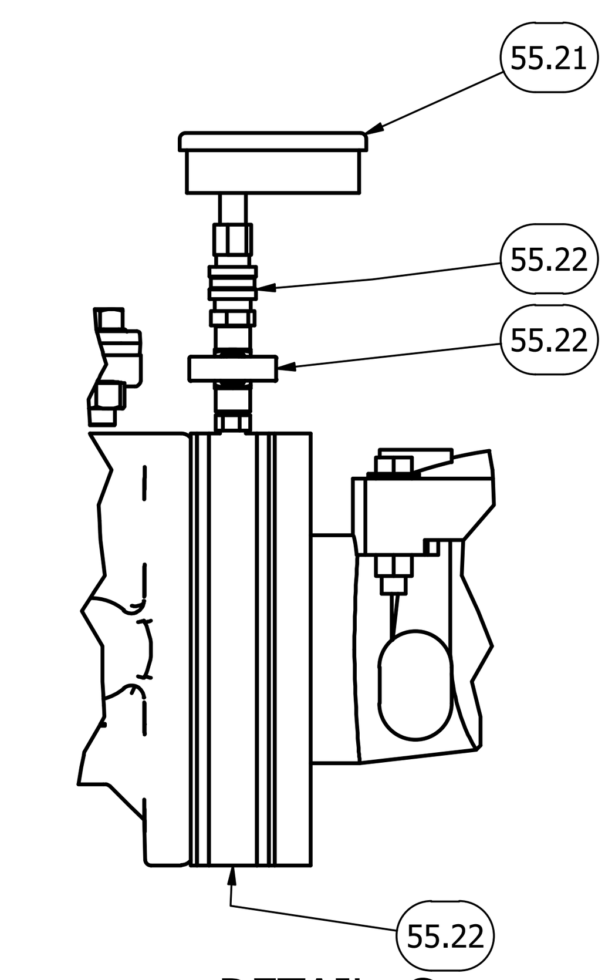




PARTS LIST			
ITEM	QTY	STOCK NUMBER	DESCRIPTION
55.1	3	25-PS040FLG	PIPE STAND - 304SS - 4in FLANGE
55.2	1	25-PS04TFLG	PIPE STAND - 304SS - 4in FLANGE - TOMAHAWK
55.3	4	25-PSBASES4	PIPE STAND - 304SS - BASE PLATE
55.4	2.0 ft	40-PP0200S6	PIPE - 316SS SCH40 - 2in DIA
55.5	1	40-TT0203S6	NIPPLE - 316SS - 2in DIA x 3in
55.6	1	41-BV02OVS6	BALL VALVE - 316SS - 2in - OVAL HANDLE
55.7	2	41-GV040HD0	GATE VALVE - 4in - HANDWHEEL
55.8	1	42-AC0400BF	BACKFLUSH DEVICE ASSEMBLY - 3in-4in
55.9	2	42-MI034600	POSITION INDICATOR ASSEMBLY - 3in-4in
55.10	2	42-SF0400D0	CHECK VALVE - FLEX - 4in
55.11	1	43-AV02LARI	VALVE - AIR VACUUM RELEASE - 2in - ARI - D025L
55.12	2	44-AD04STSF	FLANGE ADAPTER - 4in - STARFLANGE
55.13	1	45-FP040300	SPOOL - DI - 4in DIA x 30in - FLGxPE
55.14	2	46-EL0490DI	ELBOW - DI - 4in x 90deg - FLGxFLG
55.15	1	46-TE0404DI	TEE - DI - 4in x 4in - FLGxFLG
55.16	11	49-GS040000	GASKET - SBR - 4in FULL FACE
55.17	1	59-LS0408DI	LINK SEAL - 4in X 8in - DI - LS-410-S-316-7
55.18	4.2 ft	70-PP1H00P4	PIPE - PVC SCH40 - 1.5in DIA
55.19	1	74-AD1H004M	ADAPTER - PVC SCH40 - 1.5in - SLIP x MNPT
55.20	1	74-CL1H90SF	CAM LOCK - 90DEG - 1.5in SOCKET X 1.5in FNPT
55.21	2	81-PG3H00QB	PRESSURE GAUGE - 3.5in DIA x .25in MNPT BACK - 100#
55.22	2	83-GI040BBZ	ISO RING - 4in - NEEDLE VALVE & SQR



DETAIL H
SCALE 1 / 6



DETAIL G
SCALE 1 / 4

COLOR LEGEND

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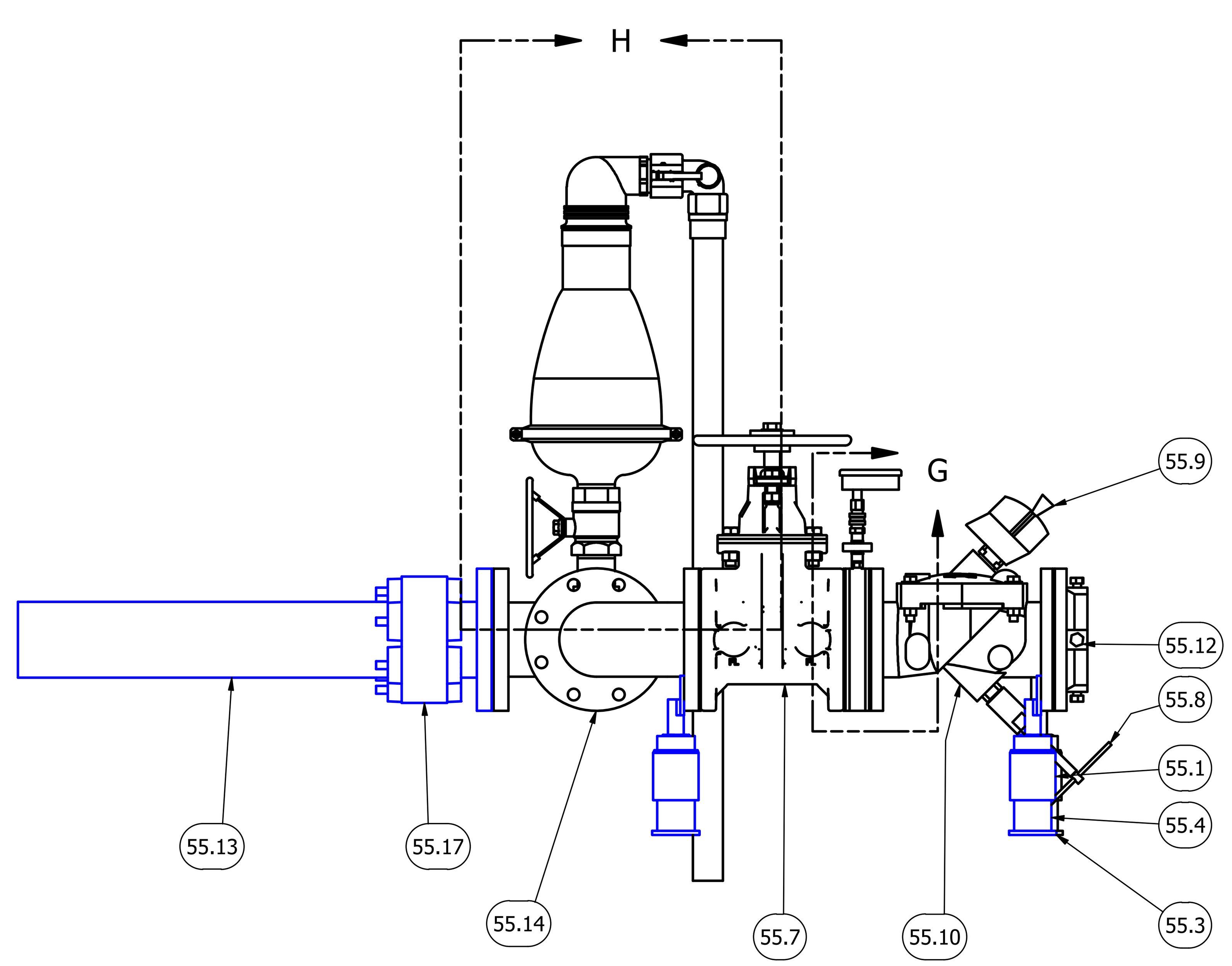

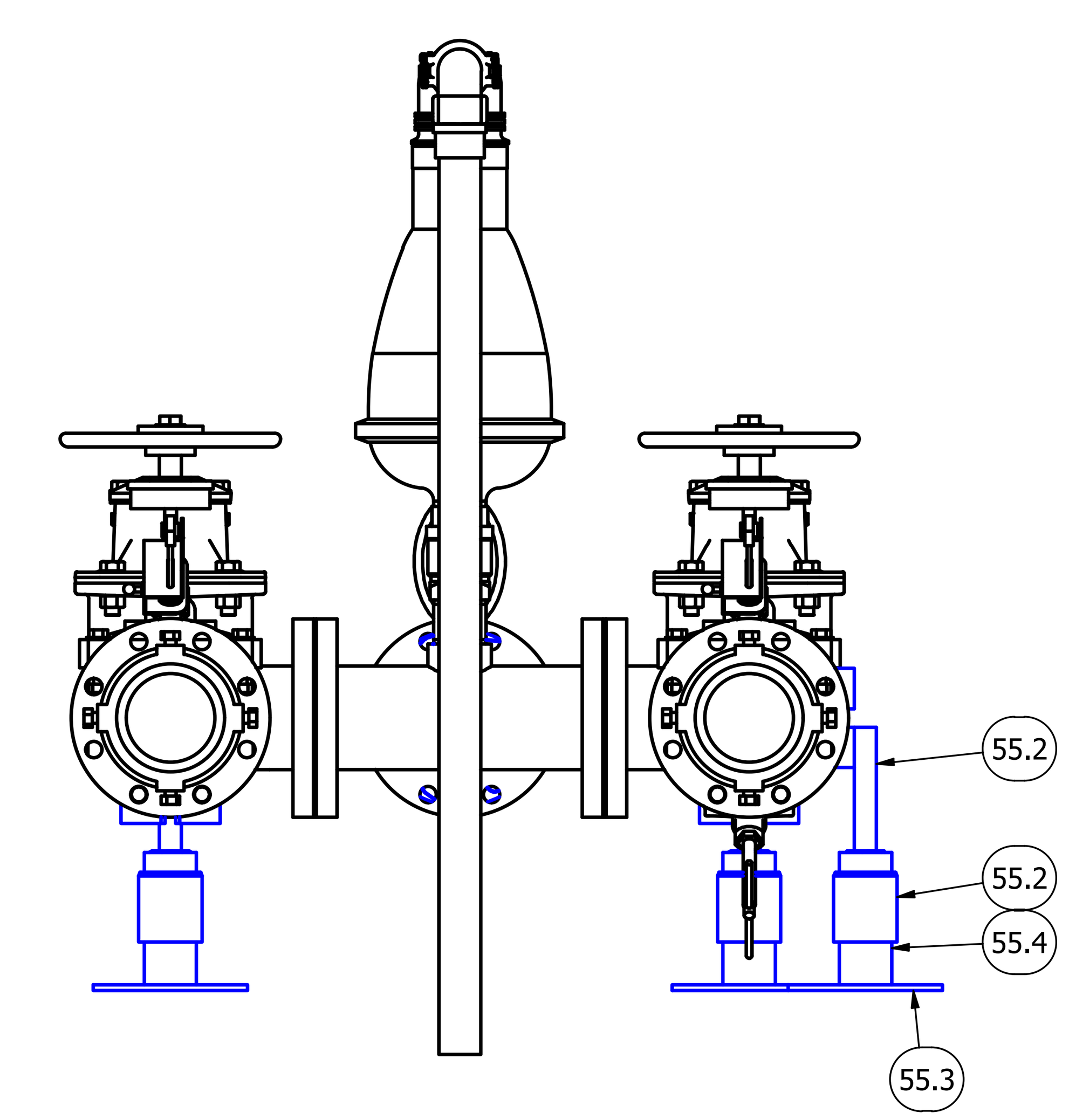

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FOR CONSTRUCTION

REVISION HISTORY

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2	5/12/25	SITE VISIT	RD
3	3/24/25	LAUNCH DOCS	RD
4	8/11/25	1FT CONCRETE FLOOR	RD
5	11/19/25	FLOOR & INVERT ELEVATIONS	RD

VERIFY SCALE
DRAWING HAS BEEN FORMATTED FOR 34 x 22 SHEET. BAR EQUALS ONE INCH
0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DSN: RD
DRN: RD
CKD:
DATE: 4/3/25

ROMTEC UTILITIES
18240 NORTH BANK ROAD
ROSEBURG, OREGON 97470
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FORT STEVENS
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RETROFIT PACKAGE
VALVE VAULT COMPOENTS

SHEET
M-02