

8/21/23

10/28/21

2 REVISED, TO REFLECT CURRENT COUNTY STANDARDS

REVISED SLAB DIMENSIONS

* REFER TO ELECTRICAL DRAWINGS FOR STANDARD ELECTRICAL DETAILS, EQUIPMENT REQUIRED AND FOR COORDINATION OF MECHANICAL AND ELECTRICAL INSTALLATIONS GATES TO OPEN OUTWARD ----11' (MIN.) TYPICAL FALL PREVENTION ANCHORAGE POINT, -SECTION A TYPE, REFER TO FALL PREVENTION STRUCTURAL DRAWINGS FOR ADDITIONAL TYPE AND LOCATION OPTIONS. A 3' MINIMUM SEPARATION REQUIRED FROM CENTER TO ANY EXPANSION JOINT (SAW CUT JOINTS OK). * ELECTRIC METER AND -ALARM SILENCER * ALARM HORN & BEACON 10' (MIN) * CELLULAR ANTENNA * RTU/CONTROL PANEL * MAIN DISCONNECT -* AREA LIGHT -9' (MIN) ALL INTERIOR & EXTERIOR SURFACES OF ABOVE-SLAB PIPING AND FITTINGS SHALL BE PROTECTED WITH CORROSION RESISTANT COATINGS STANDARD FOOTPRINT - MIN. DIMENSIONS

> SHOW TO SCALE AND INCLUDE ELEVATIONS AS TO ROAD, SLAB, DRIVEWAY AND SURROUNDING AREAS.

> > DETAILED SITE PLAN (BY ENGINEER) SCALE: 1"=



PUMP STATION DESIGN NOTES (TYP):

PUMP AND PIPE SPACING IS ACCOMMODATED.

CONNECTION DETAIL, DRAWINGS S2, S4 & M3).

5. PUMP STATION SLAB DIMENSIONS SHALL MEET OR EXCEED MINIMUM SHOWN.

1. IN ORDER TO COORDINATE THE MECHANICAL, ELECTRICAL AND STRUCTURAL INSTALLATION, THE DESIGN ENGINEER SHALL REFER TO HILLSBOROUGH COUNTY'S MECHANICAL DRAWINGS (M1-M3). ELECTRICAL DRAWINGS (E 0.0-E 5.0), STRUCTURAL DRAWINGS (S1-S4); AND THE "HC WATER, WASTEWATER & RECLAIMED

WATER, WASTEWATER & RECLAIMED WATER TECHNICAL SPECIFICATIONS" (LATEST EDITION).

WATER TECHNICAL MANUAL FOR SUBDIVISION AND SITE DEVELOPMENT" (LATEST EDITION), AND THE "HC

THE DESIGN ENGINEER SHALL NOT USE THESE DRAWINGS FOR A SPECIFIC SITE INSTALLATION. A DETAILED

SITE PLAN SHALL BE SHOWN IN THE BOX PROVIDED ON THIS SHEET, OR ON A SEPARATE SHEET AS NEEDED. THE SITE PLAN SHALL BE DRAWN TO SCALE AND INCLUDE CRITICAL SITE ELEVATIONS (SUCH AS ROAD, SLAB,

DIMENSIONS, HARDSCAPE ELEMENTS, AND THE PUMP STATION'S RELATIONSHIP TO THE SURROUNDING AREA.

PARTS AND INCREASE SERVICE LIFE. ALL REQUESTS FOR DEVIATIONS FROM THIS STANDARD MUST BE MADE IN

WRITING TO THE DEVELOPMENT SERVICES DEPARTMENT FOR SUBDIVISION AND SITE DEVELOPMENT; AND TO

THE ENGINEER IS ADVISED THAT COUNTY APPROVAL OF THE PUMP STATION DESIGN DOES NOT CONSTITUTE A

RELEASE FROM PROFESSIONAL LIABILITY BY THE ENGINEER NOR SHIFT RESPONSIBILITY FOR ANY DESIGN

DECISIONS REPRESENTED HEREIN TO THE COUNTY OR OTHER REGULATORY AGENCY. THE ENGINEER IS

8. IF THE INFLUENT INVERT ELEVATION IS GREATER THAN 2-FEET ABOVE LOW WATER LEVEL (LWL), A DROP INVERT

CONNECTION SHALL BE REQUIRED, THE DROP INVERT TO BE SET AT THE LEAD-ON ELEVATION (SEE DROP

RESPONSIBLE FOR THE FINAL ELECTRICAL, MECHANICAL, AND STRUCTURAL DESIGNS.

[INSTALLED HEIGHT (PER PUMP MFR.) + 3" = ___FT] ≤ [LWL - BOTTOM EL. = ___FT]

10. DUCTILE IRON IN THE WETWELL MUST BE BELOW THE LOW WATER LEVEL.

DISCHARGE PIPE SUPPORTS ARE REQUIRED FOR WET WELL DEPTHS GREATER THAN 10 FEET.

9. LOW WATER LEVEL MUST BE AT LEAST 3" ABOVE TOP OF PUMP. FILL IN THE FOLLOWING INFORMATION:

THE PUBLIC UTILITIES DEPARTMENT (PUD) PROJECT MANAGER FOR ALL CAPITAL IMPROVEMENT PROJECTS.

WRITTEN APPROVAL FROM PUD UTILITY DESIGN SECTION MGR. IS REQUIRED BEFORE MODIFICATIONS ARE

4. THE ENGINEER IS RESPONSIBILE FOR COORDINATING WITH THE PUMP SUPPLIER TO ENSURE THAT PROPER

DRIVEWAY, AND SURROUNDING AREAS - INCLUDING FINISHED FLOOR OF BUILDINGS ON ADJACENT LOTS),

THESE DRAWINGS REPRESENT THE STANDARD DESIGN FOR ALL HILLSBOROUGH COUNTY WASTEWATER

PUMPING STATIONS. IT WAS DEVELOPED TO IMPROVE RELIABILITY AND MAINTAINABILITY, MINIMIZE SPARE

STANDARD WASTEWATER TRIPLEX PUMP STATION

MECHANICAL LAYOUT AND SITE PLAN

FILE NUMBER ISSUE DATE: OCTOBER 2023 SCALE HORIZONTAL: DRAWING NUMBER DRAWN DESIGNED VERTICAL: CHECKED PROJ. MGR.

- TYPICAL FALL PREVENTION ANCHORAGE

POINT, SECTION C TYPE, REFER TO FALL

JOINTS OK). MINIMUM 5' SEPARATION

| REFER TO STRUCTURAL DRAWING FOR

----- 4" x 4" x 8' FENCE POST (TYP)

MINIMUM SLAB DIMENSIONS

8' DIA. INSIDE WETWELL ... 29' X 27'6"

10' DIA. INSIDE WETWELL .. 31' X 28'

WIDTH X DEPTH

DRAWING M2

6' HIGH WOOD FENCE - SEE DETAIL,

CONCRETE THICKNESS AND REINFORCING

POINTS.

- 6"x 6" GATE POST (TYP.)

PREVENTION STRUCTURAL DRAWINGS FOR

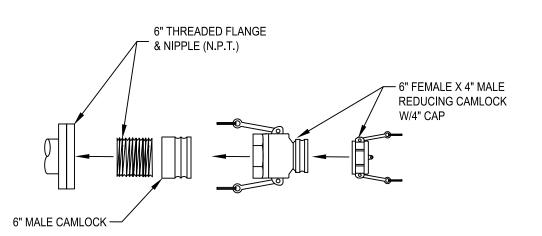
3' MINIMUM SEPARATION REQUIRED FROM

REQUIRED BETWEEN CENTERS OF ANCHOR

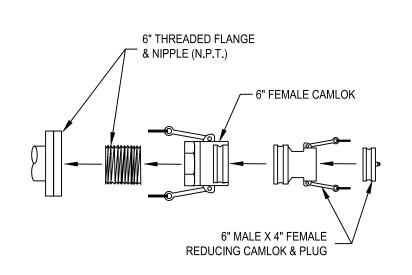
ADDITIONAL TYPE AND LOCATION OPTIONS. A

CENTER TO ANY EXPANSION JOINT (SAW CUT

STATUS: FINAL DESIGN



6" EMERGENCY BYPASS/ PUMP-IN CAMLOCK DETAIL NOT TO SCALE



6" AUX. SUCTION CAMLOCK DETAIL NOT TO SCALE

4" 90° D.I. BEND -

LINK SEAL —

NOTE: FOR PUMP STATIONS W/ 6" DIA. AND LARGER

DISCHARGE PIPING, PIPE AND FITTINGS SHALL BE

4" SS SCH 10 (BUTT WELD) DROP PIPE,

FITTINGS SHALL BE UPSIZED TO 6"

DETAIL, DRAWING M3

PUMP STATION BOTTOM

CUT AT 45° BEVEL -

NOTE: FOR PUMP STATIONS W/ 6" DIA. OR GREATER

(2) 316L SS PIPE SUPPORT & CLAMPS - SEE PIPE SUPPORT

DISCHARGE PIPING, THE AUX. SUCTION PIPE AND

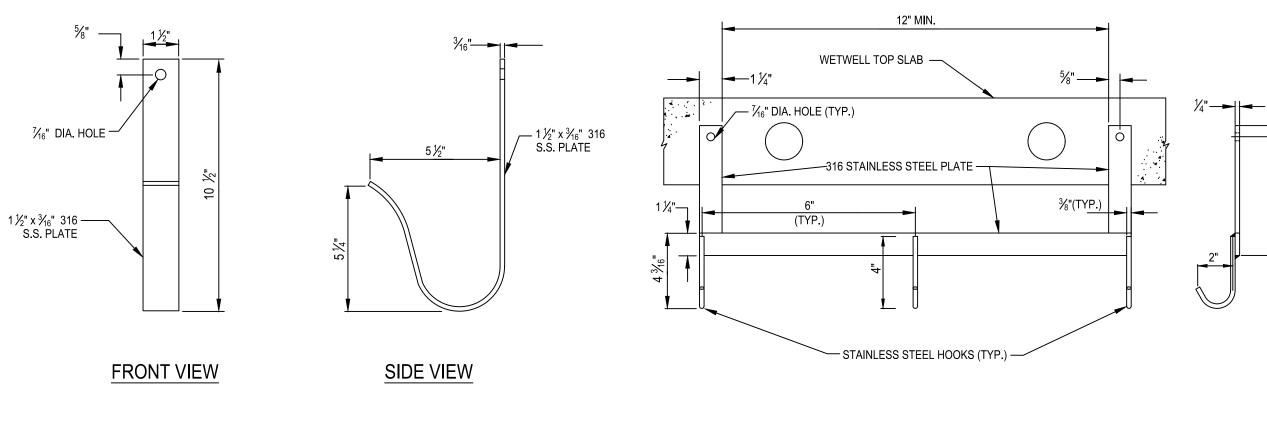
4" THREADED FLANGE & NIPPLE (N.P.T.)

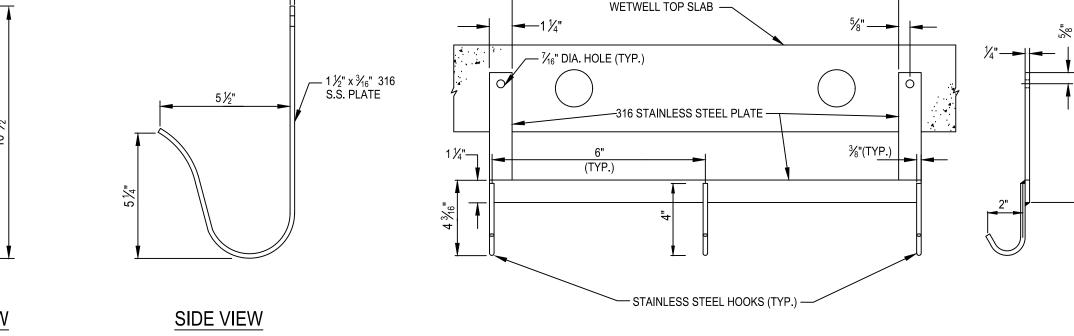
- ALTERNATE PIPE SUPPORT

4" FEMALE KAMLOK &

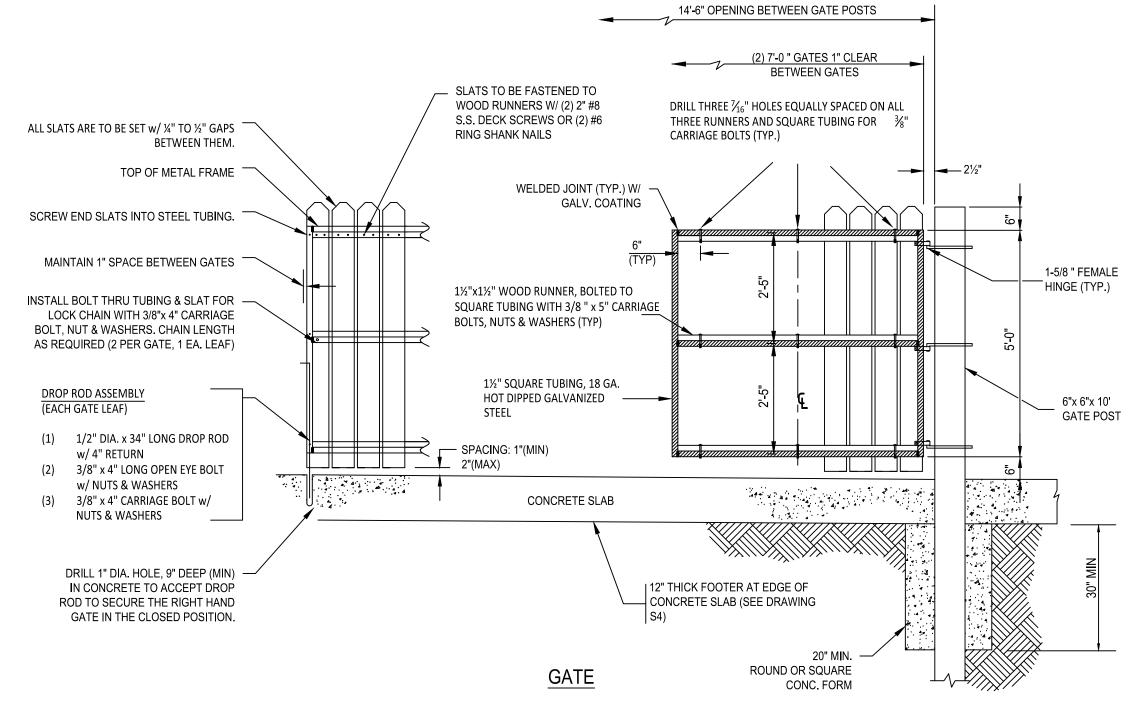
CONC TOP SLAB

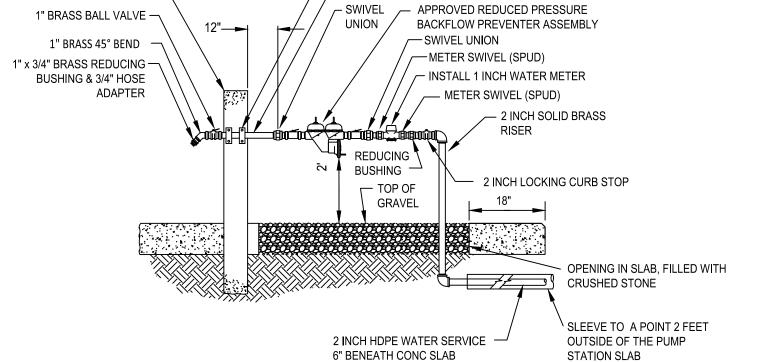
CONC WETWELL WALL











___ 1 INCH PVC PIPE STRAPS, FASTENED TO

- 1 INCH SOLID BRASS THREADED PIPE

POST W/ 2 INCH TAPCONS

NOTES:

4" x 4" x 4' ──

CONCRETE POST

- 1. ALL PIPING TO BE 2-INCHES UP THROUGH THE LOCKING CURB STOP.
- 2. 2 INCH SERVICE LINE SHALL USE A 2 INCH TAPPING SLEEVE & VALVE AT THE WATER MAIN CONNECTION.
- 3. FOR LARGE PUMP STATIONS (WET WELLS 10 FT. DIA. OR GREATER, OR 20 FT. OR MORE DEPTH), A 2 INCH WATER METER AND SERVICE SHALL BE PROVIDED. HOSE CONNECTION TO BE 2 INCH MALE CAMLOCK CONNECTOR.

WATER SERVICE DETAIL NOT TO SCALE

1" CHAMFER (TYP.) — RUNNERS TO BE FASTENED TO — - SLATS TO BE FASTENED TO EACH POST W/ (2) 3½" S.S. EACH RUNNER W/ (3) #6 RING DECK SCREWS SHANK NAILS OR (3) 2" #8 S.S. DECK SCREWS 4" x 4"x 8' FENCE (3) 2" x 4" RUNNERS 1" x 6"x 6' SLATS (NOMINAL), PLACED ON 9" CENTERS - 12" THICK FOOTER AT EDGE OF CONCRETE SLAB (SEE DRAWING 4 FT.

FENCE

FENCE & GATE CONSTRUCTION NOTES

- ALL WOOD SHALL BE PRESSURE TREATED. POSTS SHALL BE RATED FOR BURIED WOOD.
- ALL STRUCTURAL MEMBERS AND CROSS BRACING AS SHOWN. CROSS BRACING SHALL BE ON INSIDE OF GATE.
- USE HOT DIP GALVANIZED OR STAINLESS STEEL HARDWARE, FASTENERS, DROP RODS, CABLES, ETC. FOR ALL FENCE AND
- GATE CONSTRUCTION.

POWER & TRANSDUCER CABLE HOOK DETAIL

NOT TO SCALE

- 5. ALL NAIL & SCREW HEADS SHALL BE SET FLUSH W/ WOOD SURFACE (NOT COUNTER-SUNK).
- USE TAMPER PROOF HEAVY DUTY HINGES AND LATCHES ON GATE (MINIMUM OF THREE HINGES PER GATE LEAF).
- SOME PUMP STATION LOCATIONS MAY REQUIRE ARCHITECTURAL STYLE FENCING - CONSULT COUNTY.

PUMP STATION ENCLOSURE DETAIL

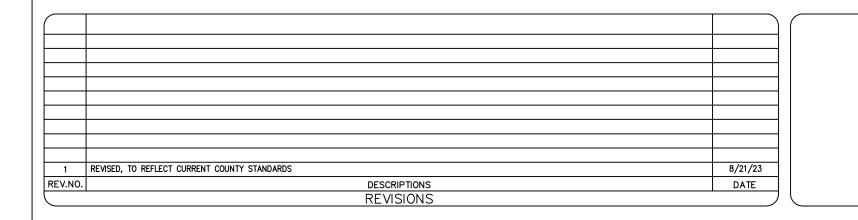
NOT TO SCALE

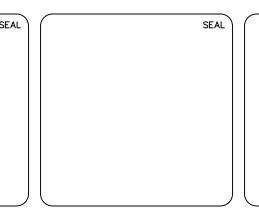
AUX. SUCTION PIPE DETAIL

NOT TO SCALE

INSTALLATION NOTE: CONTRACTOR TO REFER TO DRAWINGS M1-M3, E 0.0-E 5.0 AND S1-S4 IN ORDER TO COORDINATE ALL MECHANICAL, ELECTRICAL AND STRUCTURAL INSTALLATIONS.

FINAL DESIGN





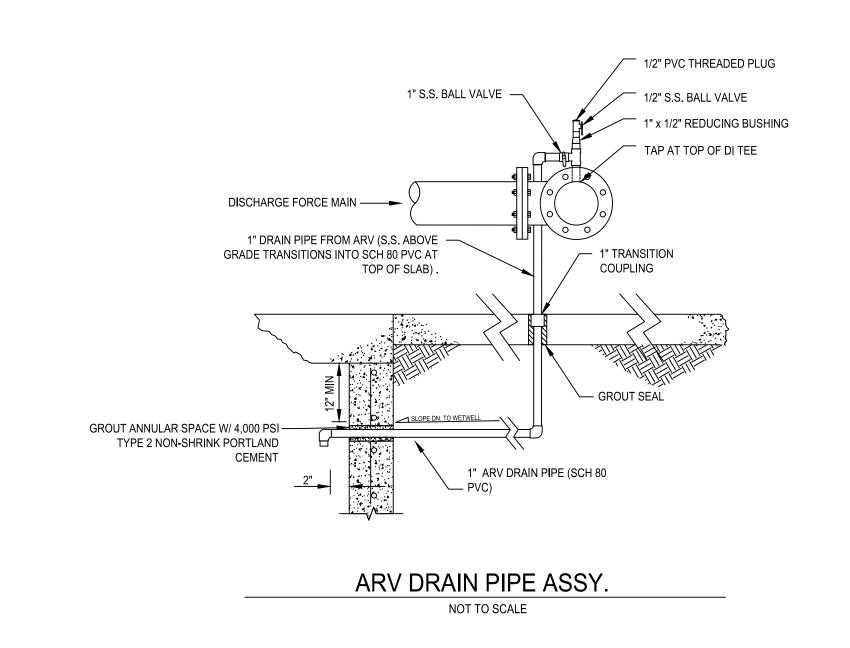


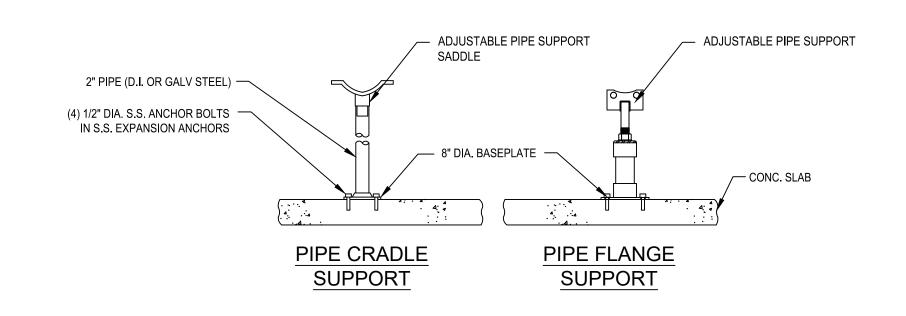


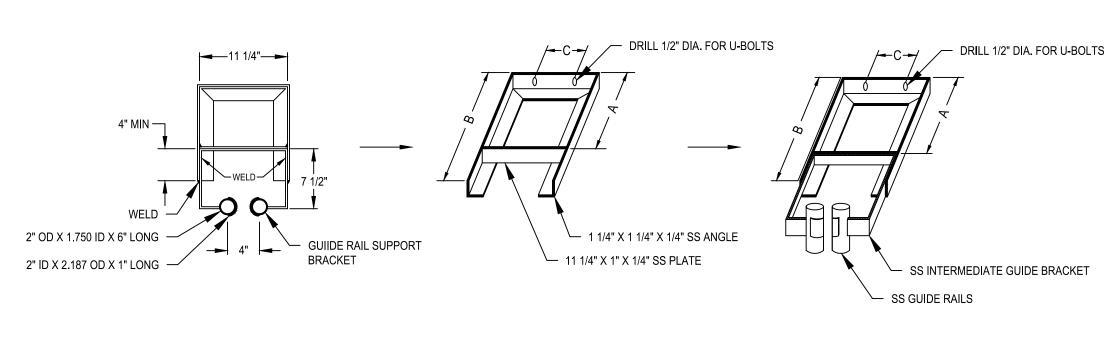
STANDARD WASTEWATER TRIPLEX PUMP STATION

MECHANICAL DETAILS

ISSUE DATE: OCTOBER 2023	SCALE	FILE NUMBER
PROJ. # DRAWN	HORIZONTAL:	DRAWING NUMB
DESIGNED CHECKED PROJ. MGR.	VERTICAL:	M2
STATUS:		

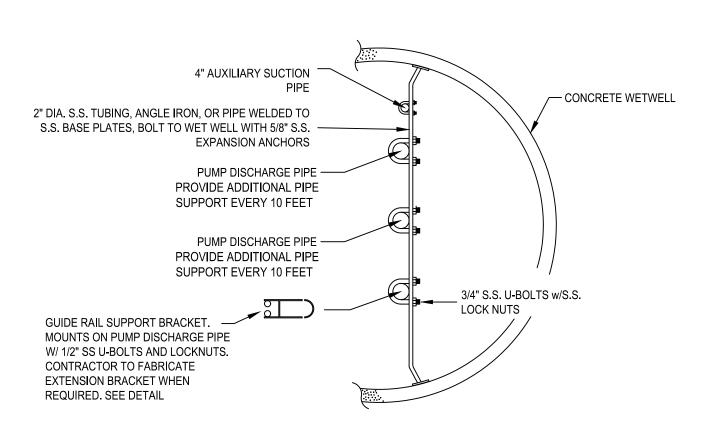






DISCHARGE PIPE DIA.	А	В	С
4"	5 5/8	9 3/4	5
6"	7	11 1/4	7
8"	7 3/4	12	9

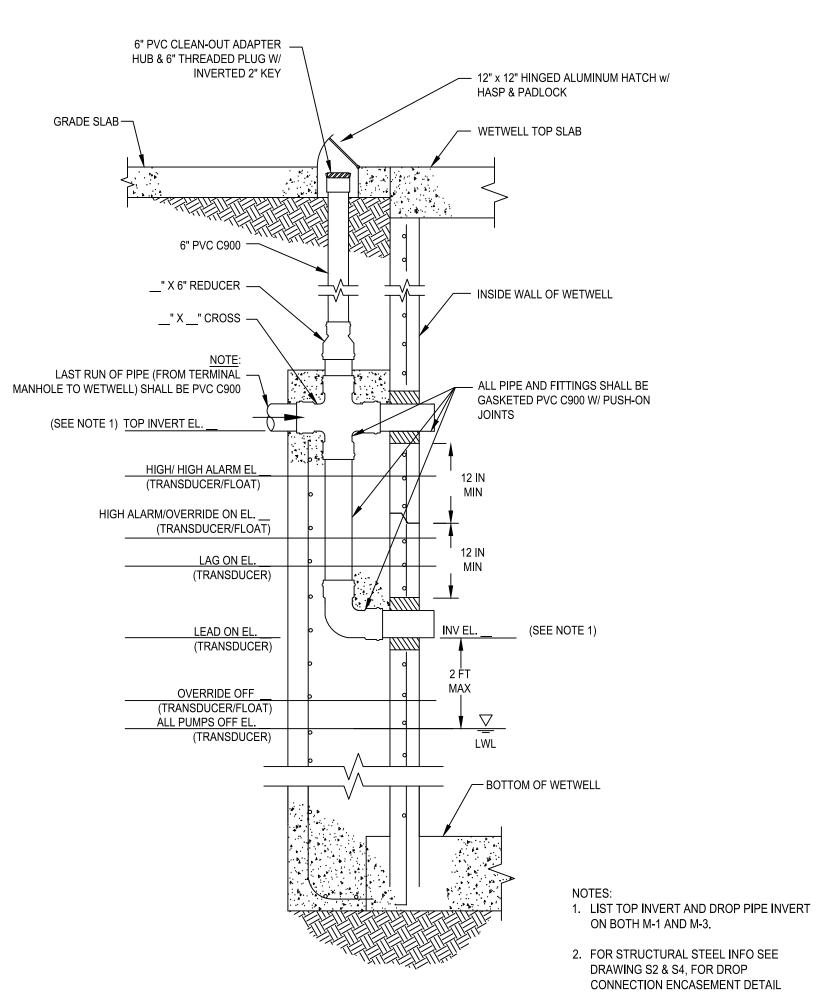
BRACKET EXTENSION DETAIL NOT TO SCALE



INTERIOR PIPE & GUIDE RAIL SUPPORTS - TOP VIEW
NOT TO SCALE

EXTERIOR PIPE SUPPORT DETAIL

NOT TO SCALE



DROP CONNECTION DETAIL NOT TO SCALE

SEAL SEAL

REV.NO.

DESCRIPTIONS

REVISIONS

DATE



PUBLIC UTILITIES
WATER RESOURCES DEPARTMENT
925 E. TWIGGS STREET/TAMPA FLORIDA 33602/PH. (813) 272–5977

STANDARD WASTEWATER TRIPLEX PUMP STATION

ISSUE DATE: OCTOBER 2023	SCALE	FILE NUMBER				
PROJ. # DRAWN	HORIZONTAL:	DRAWING NUMBER				
DESIGNED CHECKED	VERTICAL:	M3				
PROJ. MGR.	NA					
STATUS: FINAL DESIGN						

MECHANICAL DETAILS