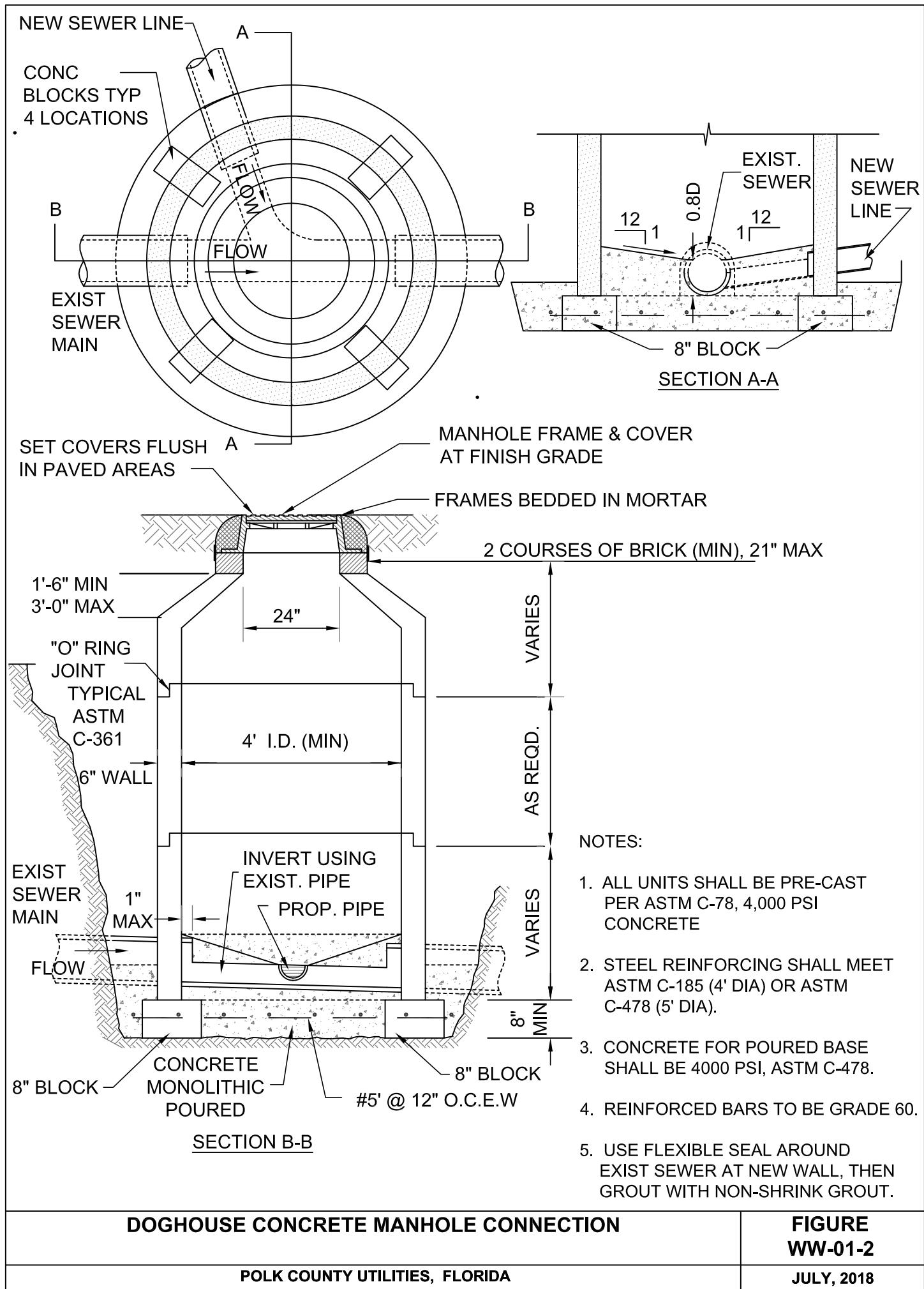


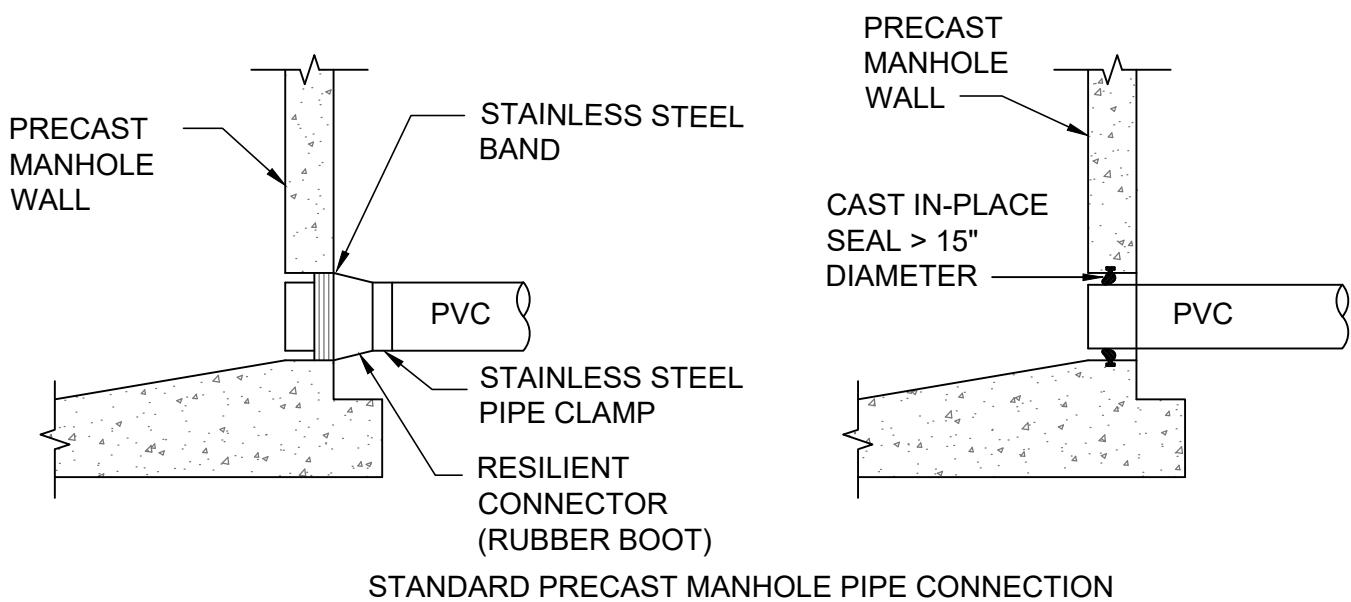
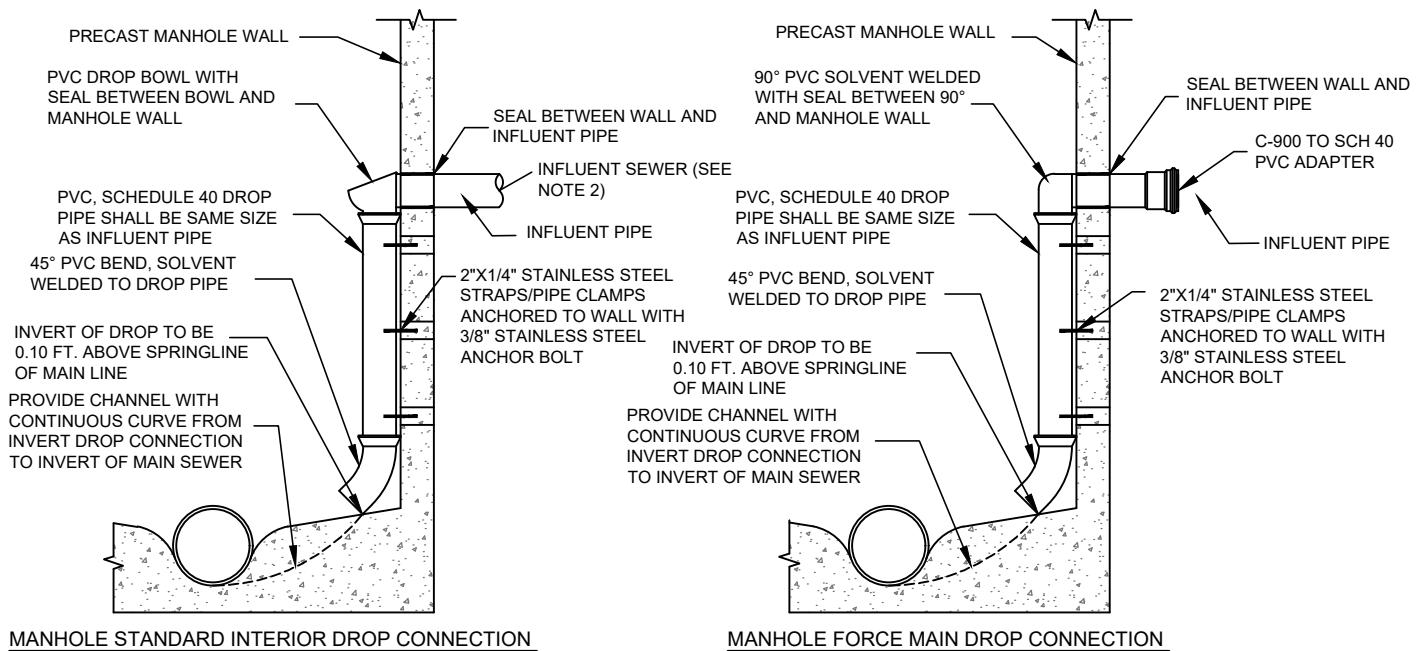
NOTES:

1. INTERIOR DROP CONNECTIONS ARE REQUIRED WHENEVER THE INVERT OF THE INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE. THE DIAMETER OF THE DROP MANHOLE SHALL BE 5'-0".
2. ECCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATIVE, AS APPROVED.
3. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
4. LIFT HOLES THROUGH STRUCTURE ARE NOT PERMITTED.
5. HDPE ADJUSTING RINGS MAY BE SUBSTITUTED FOR BRICK RISERS.
6. MASTER MANHOLES SHALL BE 5'-0" DIAMETER.
7. MANHOLE DIAMETER SHALL BE 4'-0" MIN FOR MAINS 8" TO 24" (STD), 5'-0" MIN FOR MAINS 24" TO 36" AND 6'-0" MIN FOR SEWER 36" AND LARGER.
8. TOP OF CONE TO TOP OF COVER SHALL BE 21" OR LESS.

PRECAST CONCRETE MANHOLE (TYPICAL)

FIGURE
WW-01-1





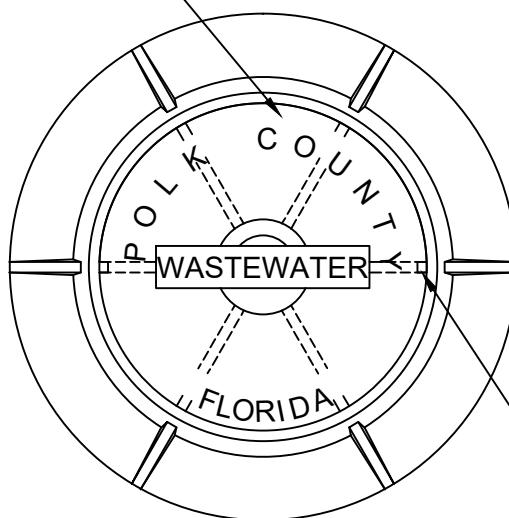
NOTES:

1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AS THE INFLUENT SEWER.
2. INSIDE DROP CONNECTIONS SHALL BE REQUIRED FOR ALL INFLUENT LINES WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT.
3. ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER MUST BE APPROVED BY PCU.

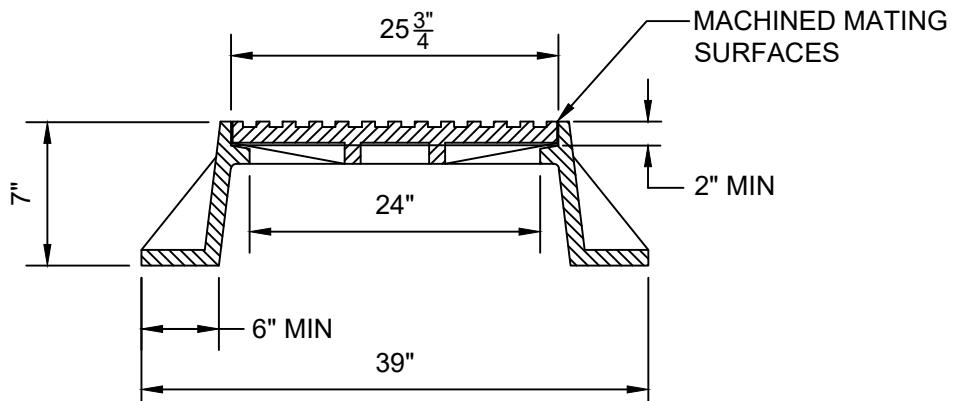
MANHOLE CONNECTION

**FIGURE
WW-02**

RAISED 1-1/2" LETTERS
FLUSH WITH TOP OF COVER



PLAN



ELEVATION
(MANHOLE INSERT NOT SHOWN)

NOTES:

1. THE WORDS 'POLK COUNTY' SHALL NOT BE USED ON PRIVATE MANHOLES.
2. RING SHALL RECEIVE 2 COATS OF BITUMINOUS (COAL TAR) EPOXY PRIOR TO INSTALLATION.
3. ALL MANHOLE COVER AND FRAME SETS SHALL INCLUDE AN APPROPRIATE SIZED INSERT.
4. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE APPROVED MATERIALS CHECKLIST.

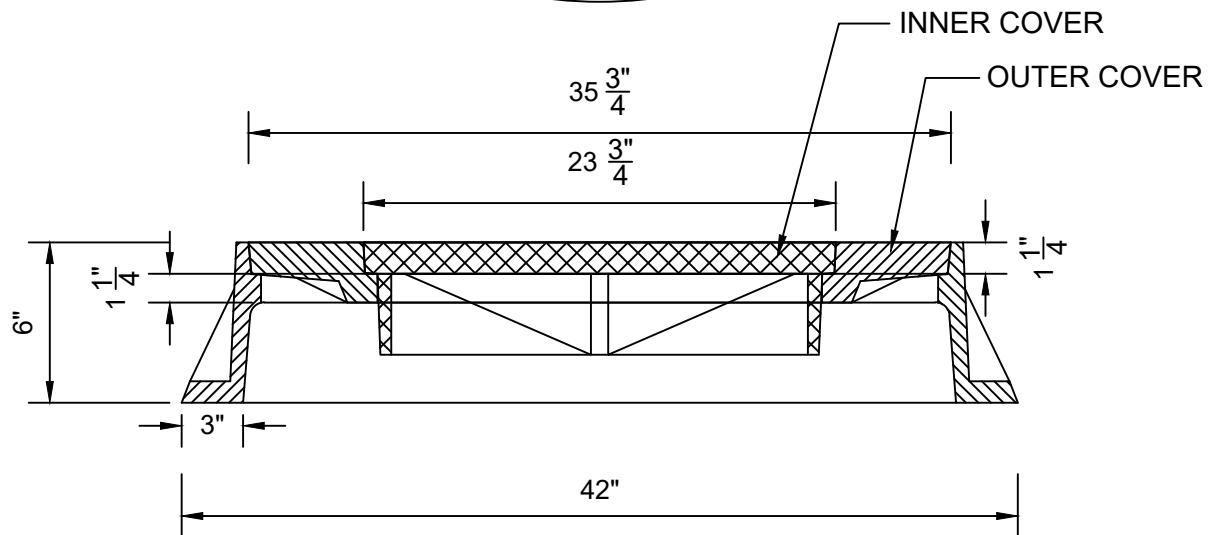
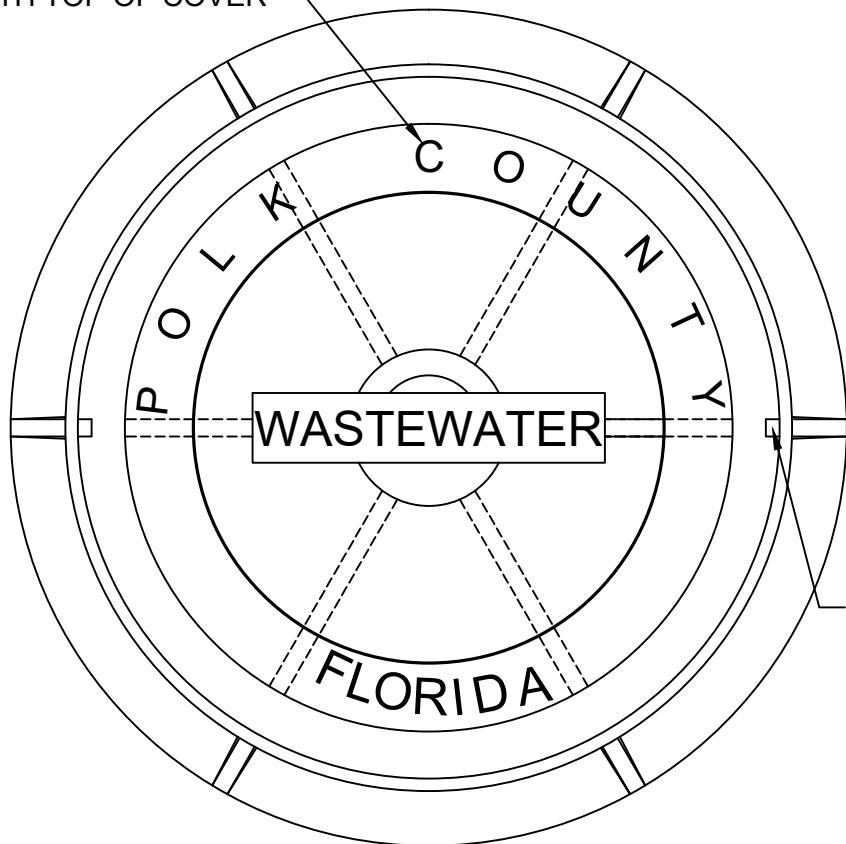
**STANDARD MANHOLE FRAME AND COVER SET
(FOUR FOOT INSIDE DIAMETER MANHOLE)**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-03-1**

APRIL, 2017

RAISED 1-1/2" LETTERS
FLUSH WITH TOP OF COVER



ELEVATION

NOTES:

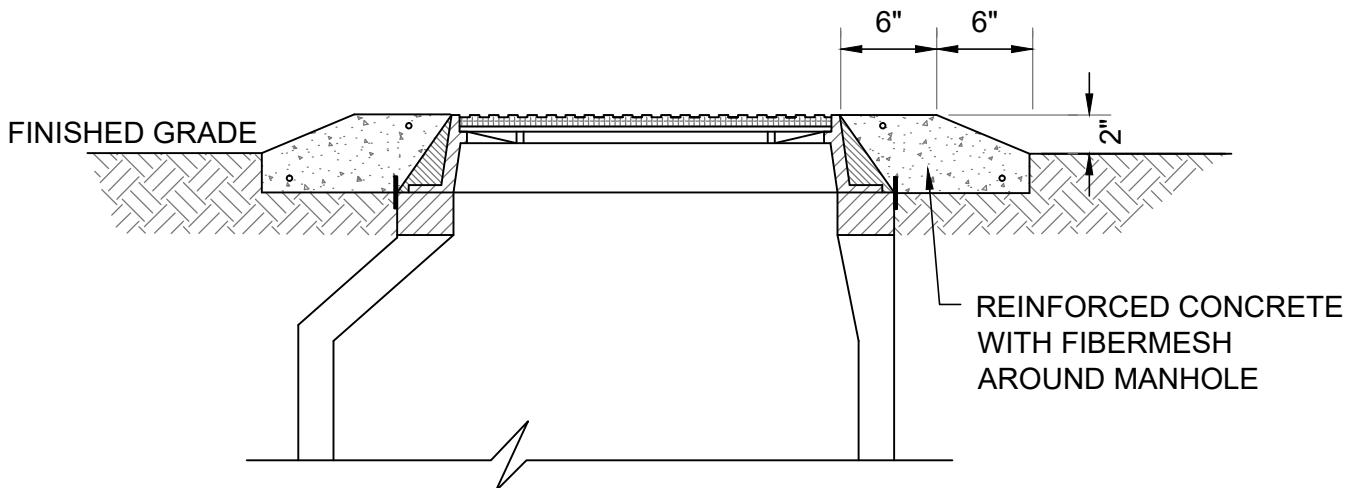
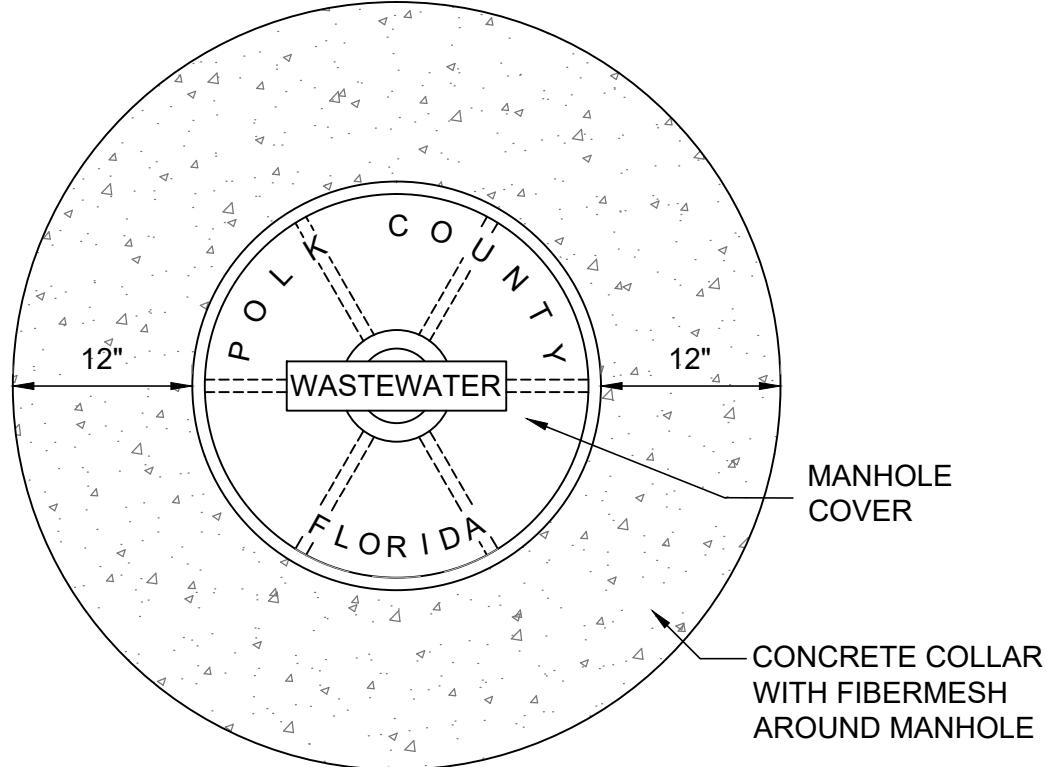
1. THE WORDS 'POLK COUNTY' SHALL NOT TO USED ON PRIVATE MANHOLES.
2. RING SHALL RECEIVE 2 COATS OF BITUMINOUS (COAL TAR) EPOXY PRIOR TO INSTALLATION.
3. ALL MH COVERS AND FRAME SETS SHALL INCLUDE AN APPROPRIATE SIZED INSERT.
4. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE APPROVED MATERIALS CHECKLIST.

**LARGE MANHOLE FRAME AND COVER SET
(LARGE MANHOLES - FIVE FOOT AND LARGER INSIDE DIAMETER)**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-03-2**

APRIL, 2017



NOTES:

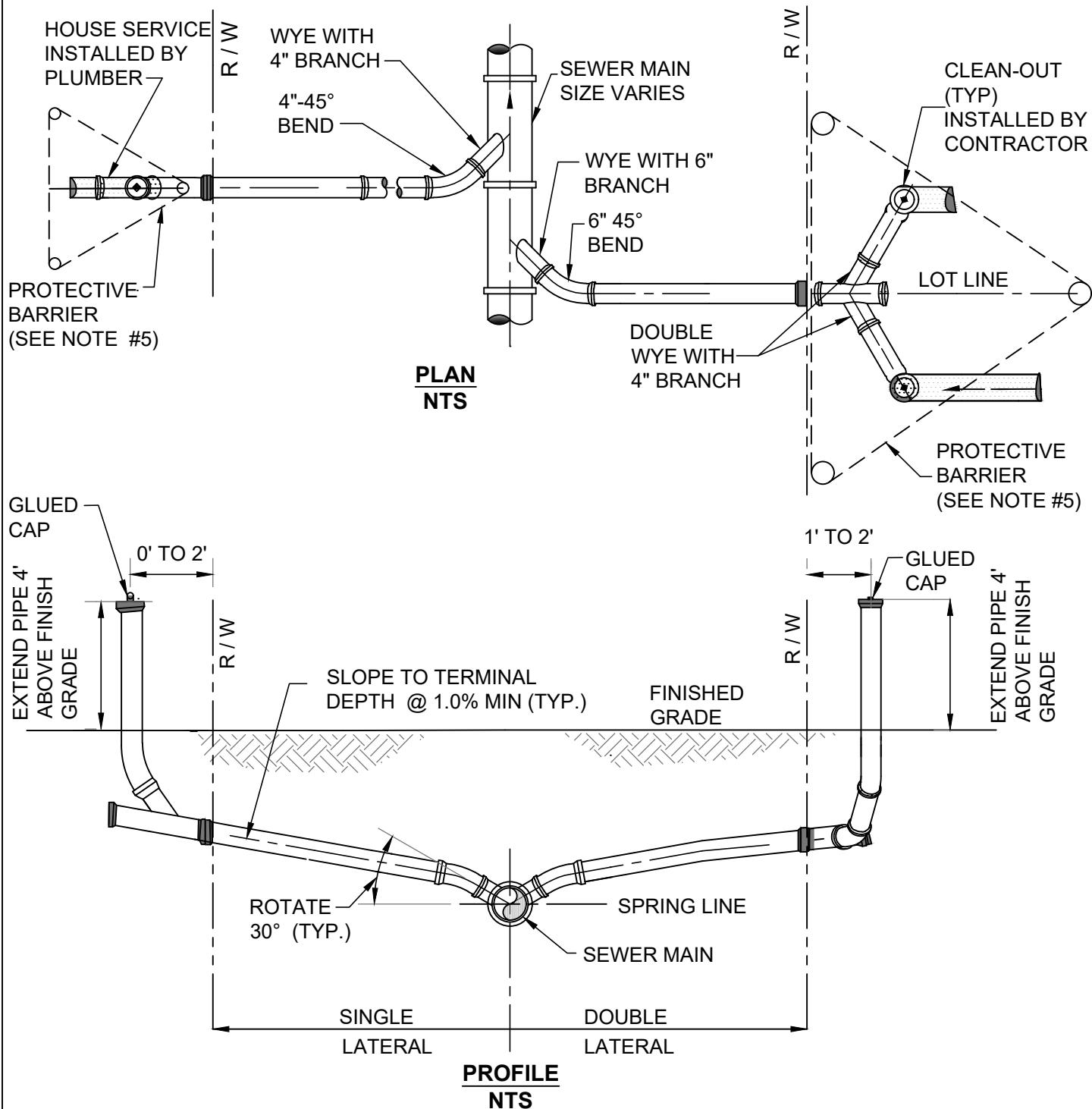
1. THE WORDS 'POLK COUNTY' SHALL NOT APPEAR ON PRIVATE MANHOLES.
2. AREAS SUPPORTING CONCRETE COLLAR SHALL BE PROPERLY COMPACTED, TO 95 % MAXIMUM DENSITY PER AASHTO T-180 FOR FIRST 6" UNDER THE COLLAR AREA.

MANHOLE IN NON-PAVED AREA

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-04**

DECEMBER, 2010

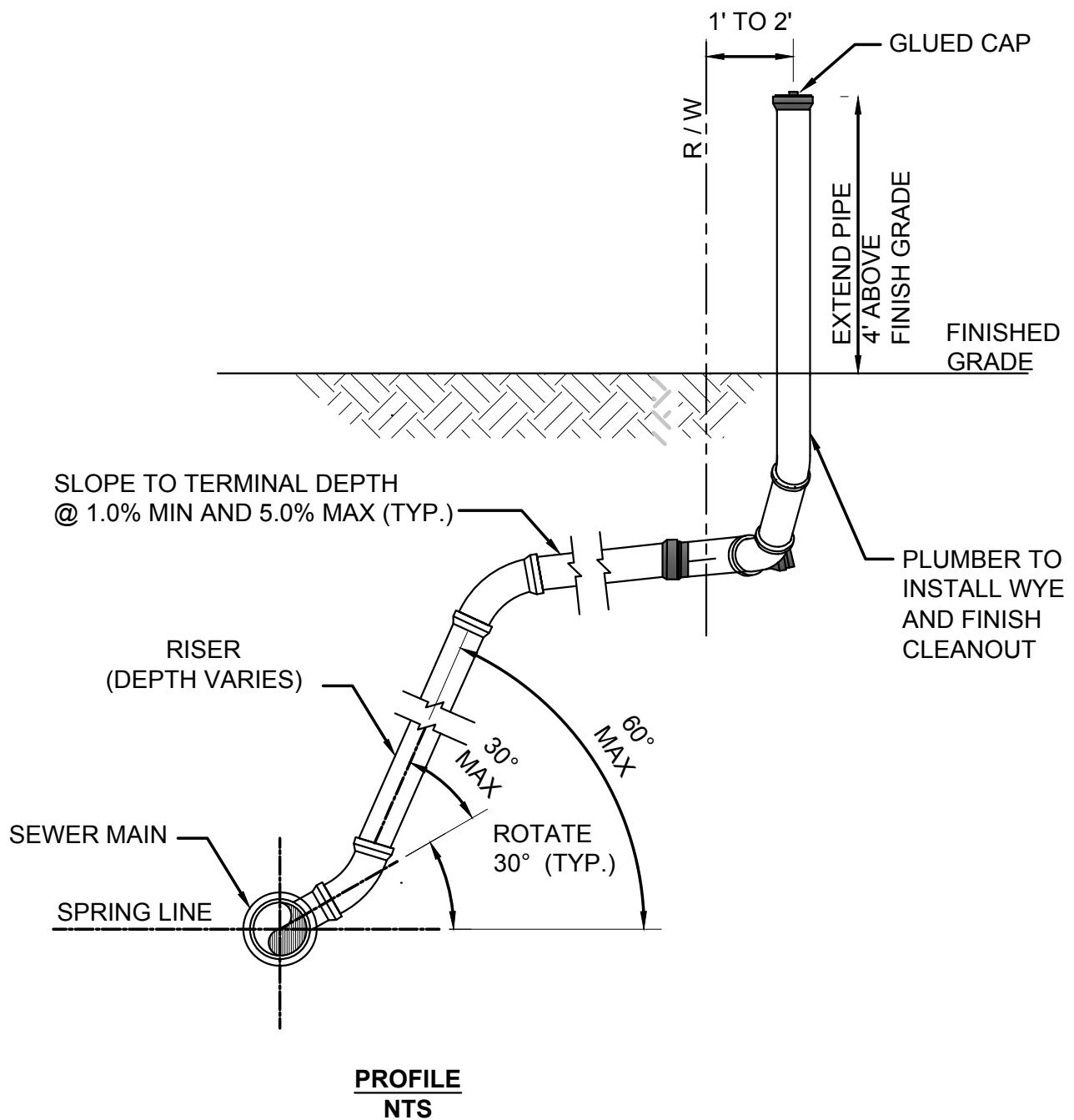


NOTES:

1. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
2. SERVICE LATERAL CLEAN OUT PIPE SHALL BE EXTENDED AND CAPPED BY CONTRACTOR.
3. ALL FITTINGS SHOWN ARE TO BE INSTALLED.
4. BUILDER'S PLUMBER WILL REMOVE PLUG, ADJUST CLEAN OUT PIPE TO GRADE, AND CONNECT SERVICE LATERAL TO HOUSE.
5. PROTECTIVE BARRIER TO BE UTILITY BLOX TEMPORARY BARRIER OR APPROVED EQUIVALENT.

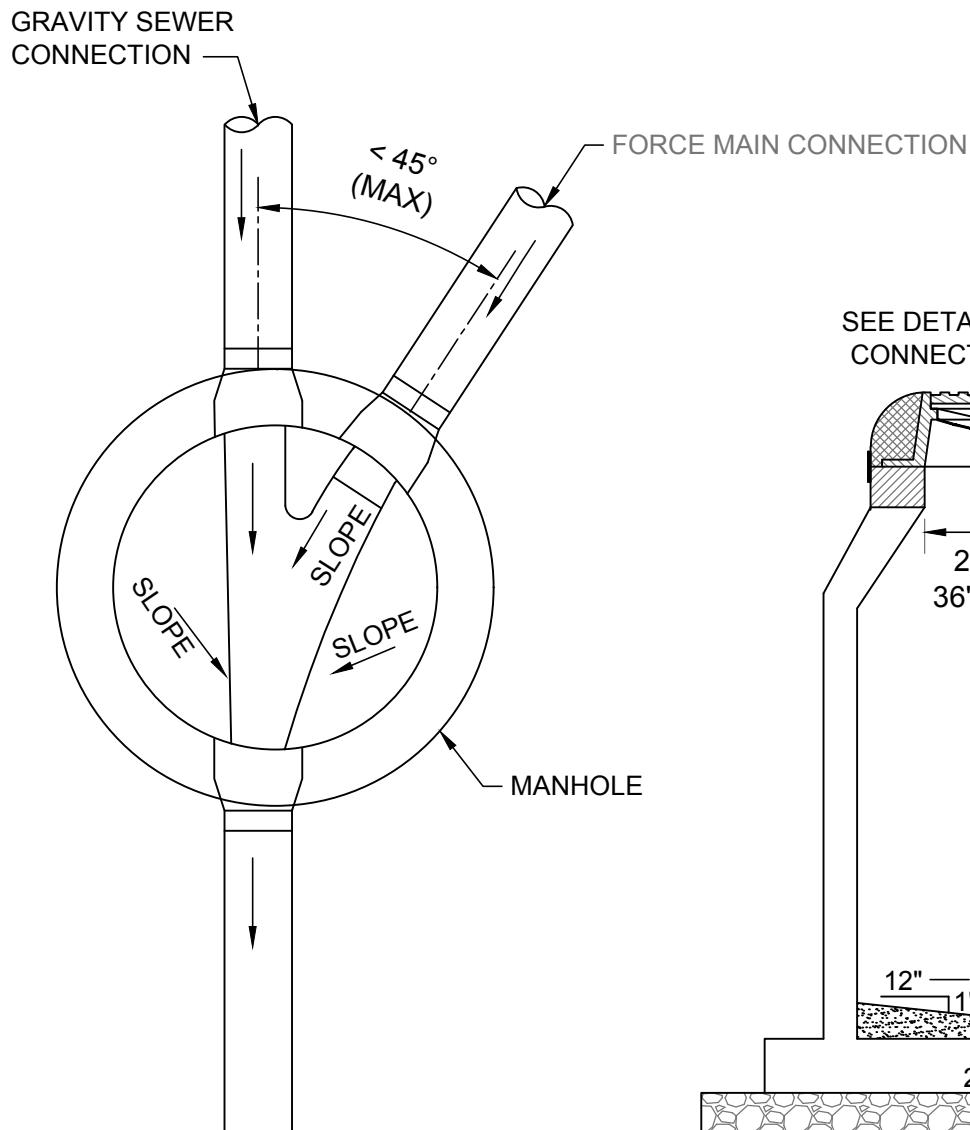
SERVICE LATERAL (STANDARD)

**FIGURE
WW-05-1**



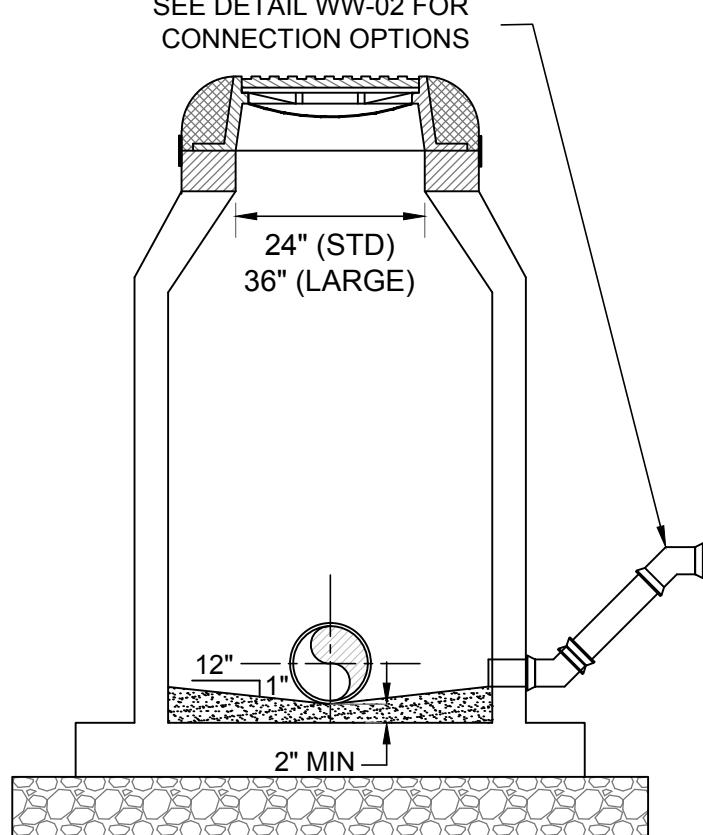
SEWER SERVICE (DEEP) (TYPICAL)

**FIGURE
WW-05-2**



PLAN VIEW

SEE DETAIL WW-02 FOR CONNECTION OPTIONS



PROFILE VIEW

NOTES:

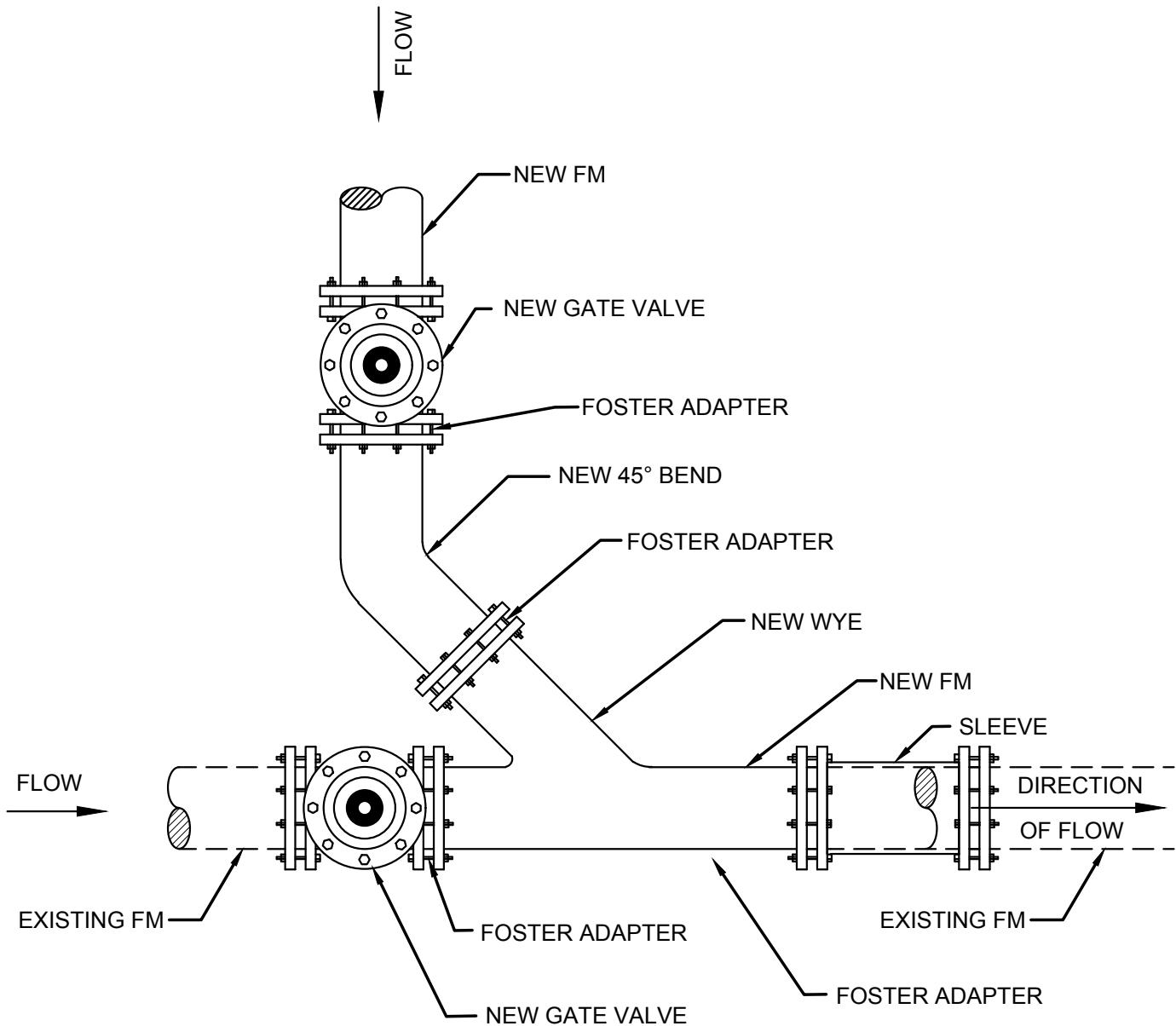
1. FORCE MAIN SHALL BE ORIENTED NORMALLY 45° OR LESS TO FLOW TO FACILITATE FLOW AND SHALL ENTER MANHOLE AT THE FLOW LINE.
2. PROVIDE BENCHING AS REQUIRED FOR FORCE MAIN.
3. MANHOLE RECEIVING FORCE MAIN SHALL BE COATED WITH SPECIALIZED COATING OR FACTORY INSTALLED LINING.
4. FORCE MAIN CONNECTION DESIGN SHALL BE AS APPROVED BY PCU.

**FORCE MAIN TO GRAVITY SEWER MANHOLE CONNECTION
(TYPICAL)**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-06-1**

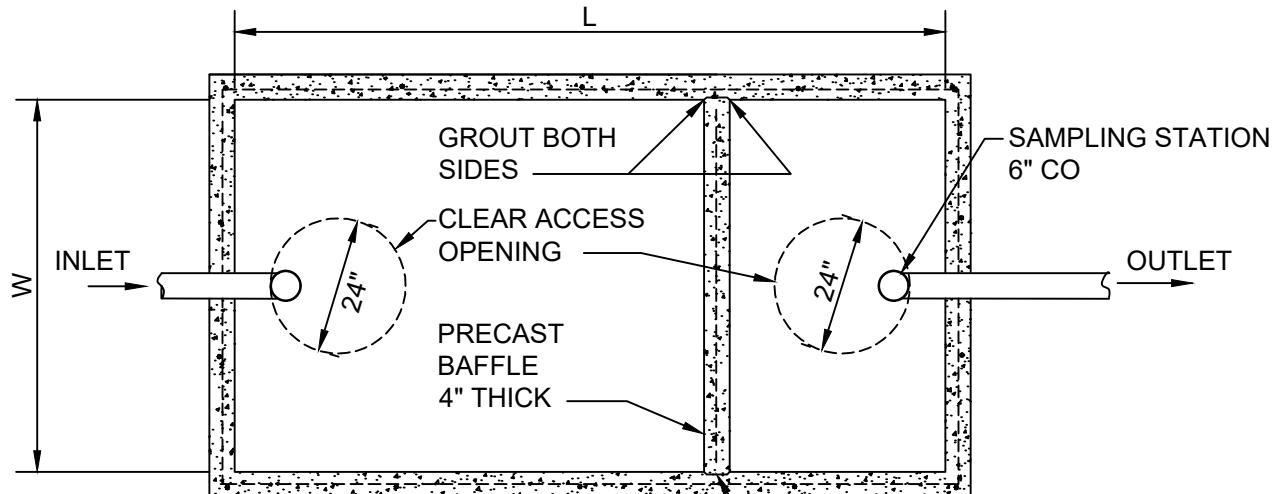
JULY, 2019



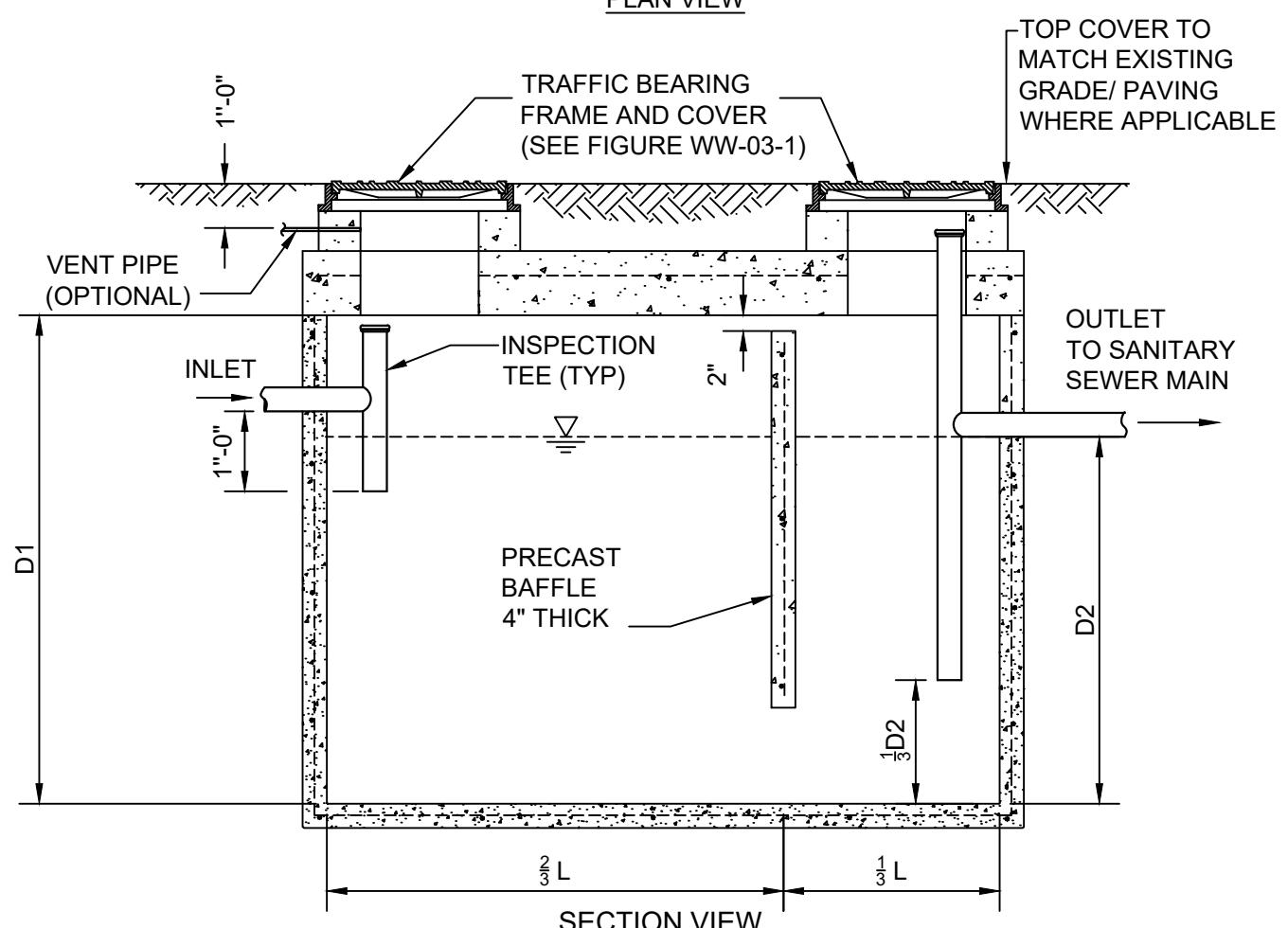
PLAN VIEW

NOTES:

1. ALL JOINTS (INCLUDING JOINTS ON EXISTING MAINS) SHALL BE RESTRAINED IN ACCORDANCE WITH USSM CHAPTER 3. ENGINEER SHALL VERIFY DESIGN ASSUMPTIONS AND INCREASE RESTRAINED LENGTHS AS REQUIRED.



PLAN VIEW



SECTION VIEW

NOTES:

1. SIZE AND DIMENSIONS OF GREASE INTERCEPTOR SHALL BE IN ACCORDANCE WITH THE UTILITIES STANDARDS AND SPECIFICATIONS MANUAL.
2. LOADS: H-20 TRUCK WHEELS WITH 30% IMPACT PER AASHTO.

LEGEND :

L = INSIDE LENGTH

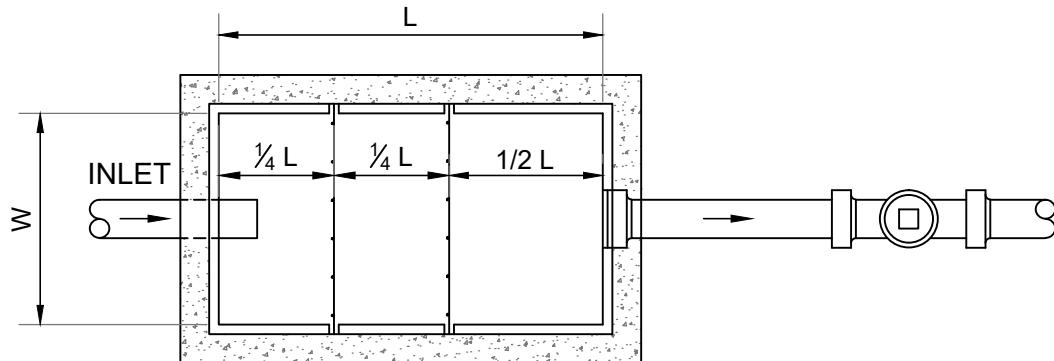
W = INSIDE WIDTH

D1 = DISTANT FROM INSIDE TOP OF STRUCTURE TO INSIDE BOTTOM OF STRUCTURE

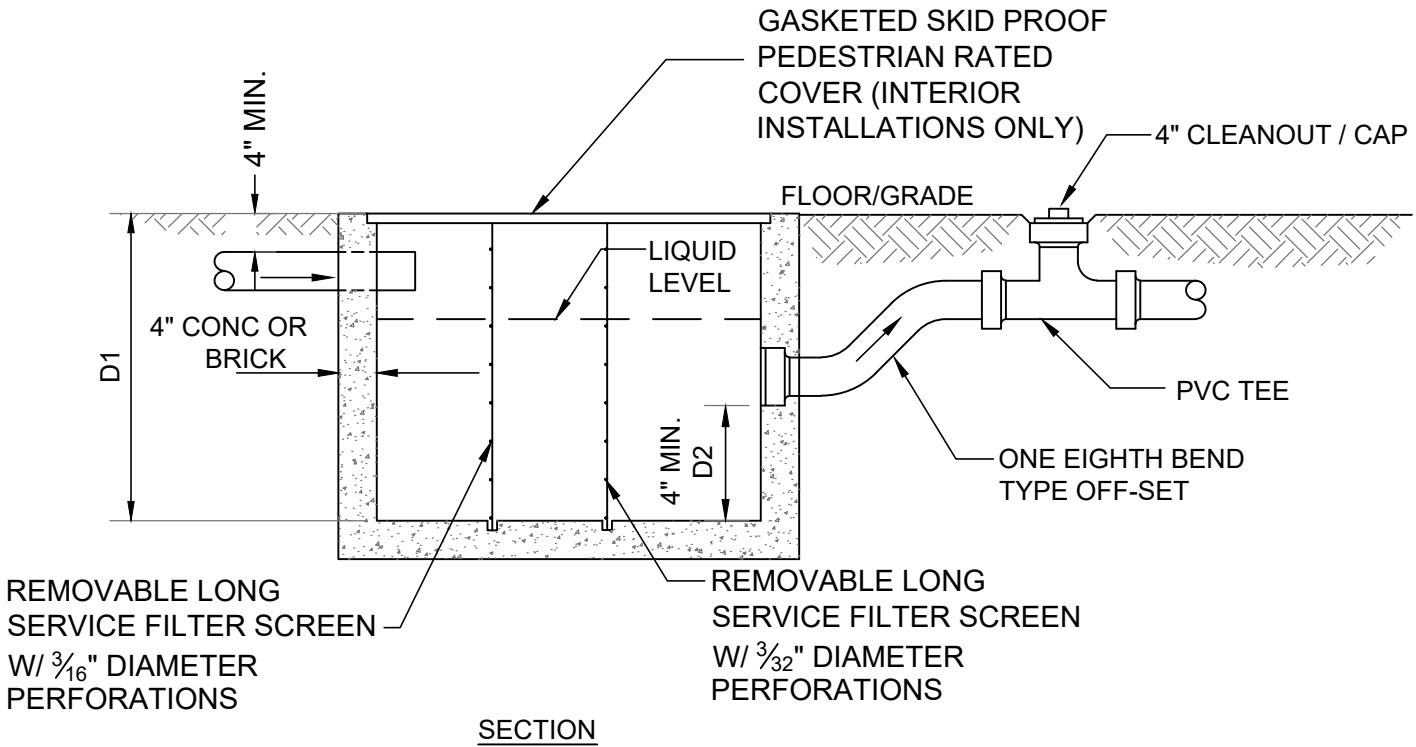
D2 = DISTANT FROM OUTLET INVERT TO STRUCTURE INVERT

GREASE INTERCEPTOR (TYPICAL)

**FIGURE
WW-07**



PLAN



SECTION

NOTES:

1. EXTERIOR INSTALLED TRAPS SHALL BE DESIGNED FOR HS-20 TRAFFIC LOADS.

LEGEND :

L = INSIDE LENGTH

W = INSIDE WIDTH

D1 = DISTANT FROM INSIDE TOP OF STRUCTURE TO INSIDE BOTTOM OF STRUCTURE

D2 = DISTANT FROM OUTLET INVERT TO STRUCTURE INVERT

**LINT / HAIR TRAP INTERCEPTOR
(TYPICAL)**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-08**

DECEMBER, 2010

GENERAL NOTES:

1. ALL INTERIOR METAL SURFACES SHALL BE PAINTED WITH 2 COATS OF BITUMINOUS EPOXY PAINT.
2. EXTERIOR OF WET WELL SHALL RECEIVE TWO (2) COATS BITUMINOUS EPOXY.
3. INTERIOR OF WET WELL SHALL HAVE PCU APPROVED FACTORY INSTALLED LINER OR FIELD COATING.
4. VALVE VAULTS ARE ONLY TO BE USED WITH PRIOR PCU APPROVAL.
5. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL SHALL BE MADE WATER TIGHT BY USE OF A RUBBER TYPE PIPE BOOT w/ NON-SHRINK GROUT.
6. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES EXCEPT FLOAT CABLES IN WET WELL.
7. WET WELL COVERS THAT ARE NOT SUBJECT TO VEHICULAR TRAFFIC SHALL BE (300 PSF RATED) ALUMINUM WITH 316 S.S. HARDWARE AND LOCK BRACKET. IF SUBJECT TO VEHICULAR TRAFFIC, WET WELL COVERS SHALL BE H-20 RATED. SIZE OF WET WELL COVER AS REQUIRED BY PUMP MANUFACTURER AND AS APPROVED BY PCU.
8. PUMPS 25 H.P. AND LARGER SHALL BE 240V/480V, 3-PHASE, W/ SOFT STARTS, SMALLER PUMPS SHALL BE 240V/480V, 3-PHASE, 60 Hz MOTOR, SUBMERSIBLE PUMP AS SHOWN IN THE USSM APPROVED MATERIALS LIST. PUMP MUST BE CAPABLE OF PASSING 3" SOLIDS. ROTO PHASE POWER UNITS ARE STRICTLY PROHIBITED.
MANUFACTURER: _____ MODEL: _____ IMP: _____ DIA: _____
SPEED: _____ RPM, DISCHARGE SIZE: _____ IN., VOLTAGE _____, PHASE: 3Ø
H.P. _____, MIN. SOLID SIZE: _____ IN., CURVE: _____
9. OPERATING CONDITIONS SHALL BE _____ GPM AT _____ FEET TDH.
10. ALL HARDWARE IN WET WELL TO BE 316 STAINLESS STEEL.
11. 4" PLUG VALVES MAY HAVE LEVERS, ALL OTHERS SHALL HAVE GEARBOX W/ HAND WHEELS.
12. WET WELL SHALL BE PROVIDED WITH A GRATE BASED FALL PROTECTION SYSTEM.
13. ALL LOCATIONS WHERE GRAVITY PIPES ENTER OR LEAVE THE WET WELL SHALL BE MADE WATERTIGHT WITH AN APPROVED BOOT.

CONTINUED FIGURE WW-10

LIFT STATION NOTES POLK COUNTY UTILITIES, FLORIDA	FIGURE WW-09
POLK COUNTY UTILITIES, FLORIDA	MAY, 2024

GENERAL NOTES (CONTINUED):

(SEE FIGURE WW-09 FOR NOTES 1 TO 13)

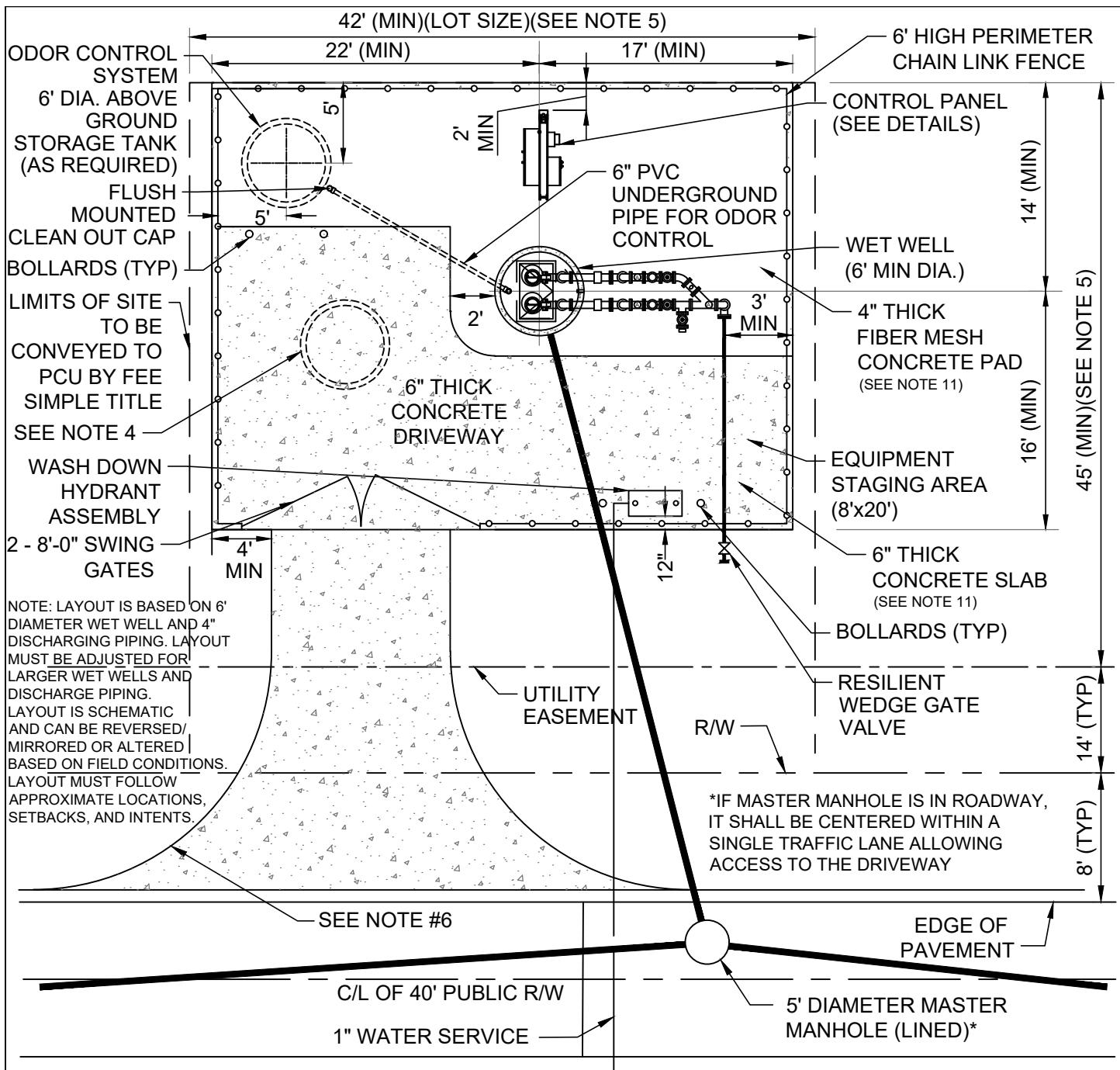
14. ALL LOCATIONS WHERE PRESSURE PIPES ENTER THE WET WELL SHALL BE MADE WATERTIGHT WITH A WALL SLEEVE AND SEAL OR NON-SHRINKAGE GROUT.
15. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES EXCEPT FLOAT CABLES IN THE WET WELL.
16. ALL HARDWARE IN WET WELL SHALL BE 316 STAINLESS STEEL.
17. ALL CONNECTIONS IN THE WET WELL SHALL BE FLANGED JOINTS. ALL REMAINING CONNECTIONS BETWEEN THE WET WELL AND THE CONNECTION TO THE EXISTING FORCE MAIN SHALL BE RESTRAINED MECHANICAL JOINTS.
18. CHECK VALVE ARM SHALL BE LOCATED WITH THE SAME ORIENTATION (i.e. ALL ARMS ON THE LEFT SIDE OF VALVE).
19. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE " APPROVED MATERIALS CHECKLIST".

**LIFT STATION NOTES
(CONTINUED)**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-10**

OCTOBER, 2015

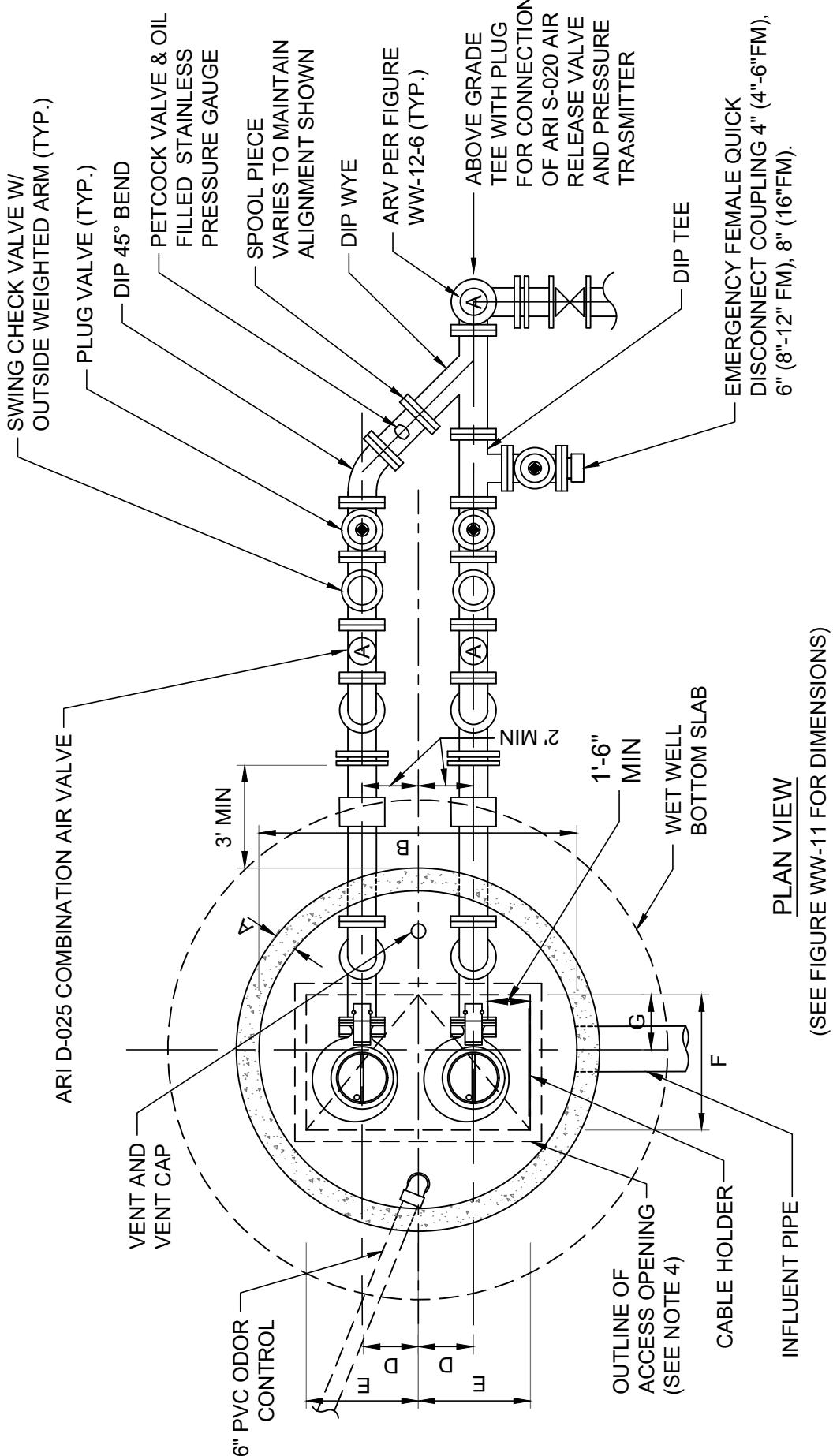


**DUPLEX LIFT STATION (TYPICAL)
SITE PLAN**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-11**

JUNE, 2024

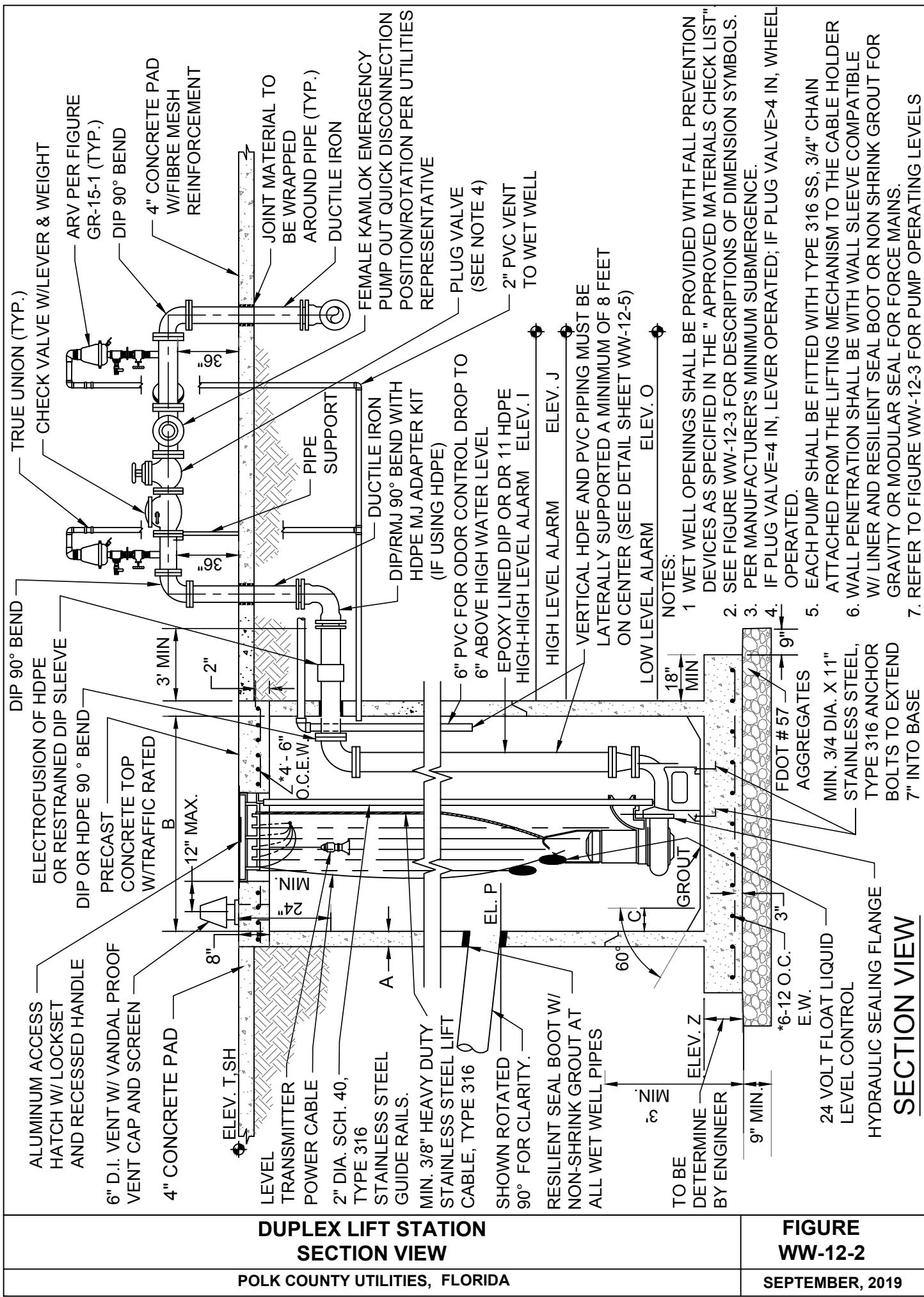


**DUPLEX LIFT STATION
PLAN VIEW**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-12-1**

JULY, 2024

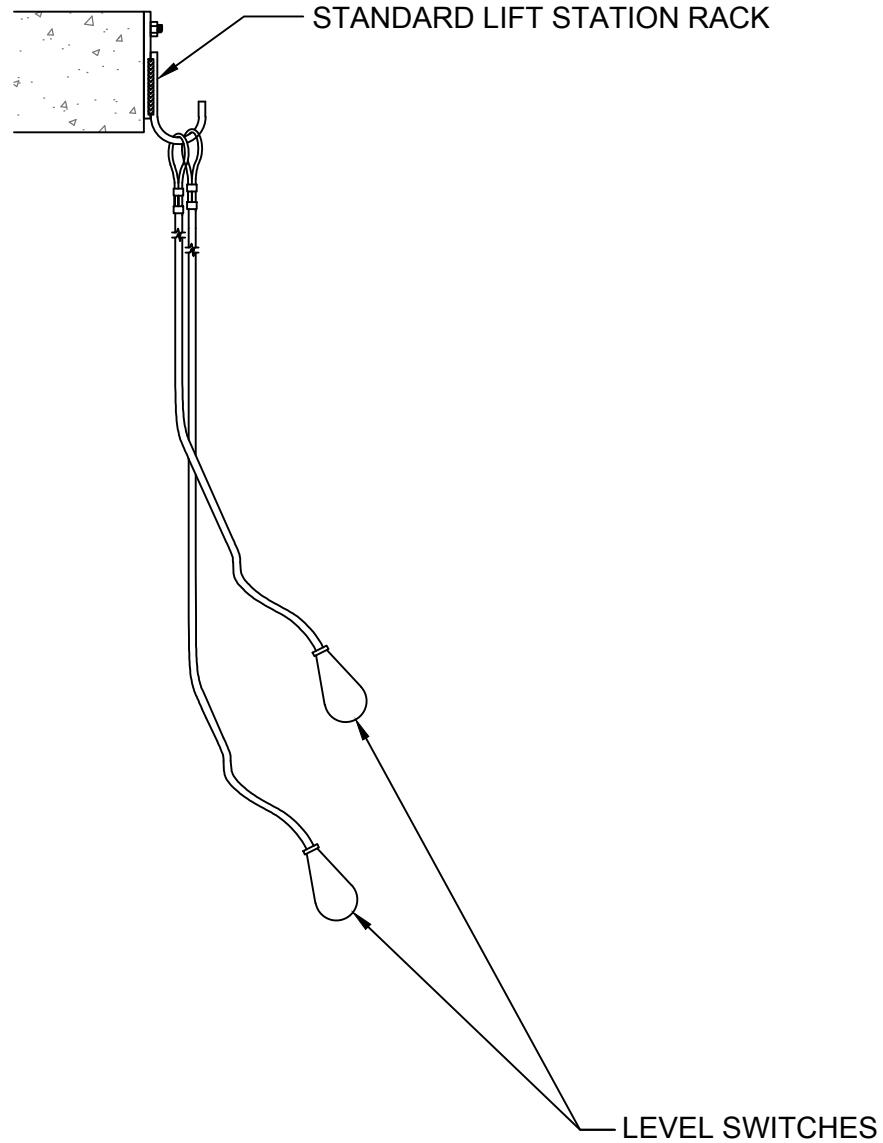


DESCRIPTION	SYMBOL	DIMENSION	ELEVATION
THICKNESS OF WALL (8" MIN.)	A		—
DIAMETER OF WET WELL (6' MIN.)	B		—
WIDTH OF BOTTOM FILLET	C	SEE NOTE 1	—
C/L TO C/L OF PUMPS	D	SEE NOTE 1	—
LENGTH OF PUMP ACCESS OPENING	E	SEE NOTE 1	—
WIDTH OF PUMP ACCESS OPENING	F	SEE NOTE 1	—
BASE ELBOW TO EDGE OF PIT	G	SEE NOTE 1	—
TOP OF WET WELL	T	—	
FINISHED GRADE	U	—	
INVERT OF GRAVITY PIPE	P	—	
FLOOR OF WET WELL	Z	—	
SEASONAL HIGH WATER ELEVATION (SEE NOTE 3)	SH	—	

NOTE:

1. PER PUMP MANUFACTURER'S REQUIREMENTS
2. TOP OF PUMP STATION SHALL BE NO LOWER THAN THE 25 YEAR FLOOD 24 HOUR ELEVATION. THE BOTTOM OF STATION CONTROL AND ELECTRICAL BOXES SHALL BE NO LOWER THAN THE 100 YEAR 24-HOUR FLOOD ELEVATION.
3. SEASONAL HIGH GROUND WATER ELEVATION 'SH' SHALL BE CONSIDERED THE SAME AS THE TOP OF WET WELL ELEVATION.

DESCRIPTION	SYMBOL	TRANSMITTER ELEVATION	FLOAT ELEVATION
VALVE HIGH-HIGH LEVEL ALARM	I		
HIGH LEVEL ALARM	J		
LAG PUMP ON	L		----
LEAD PUMP ON	M		----
BOTH PUMPS OFF	N		----
LOW LEVEL ALARM	O		



NOTES:

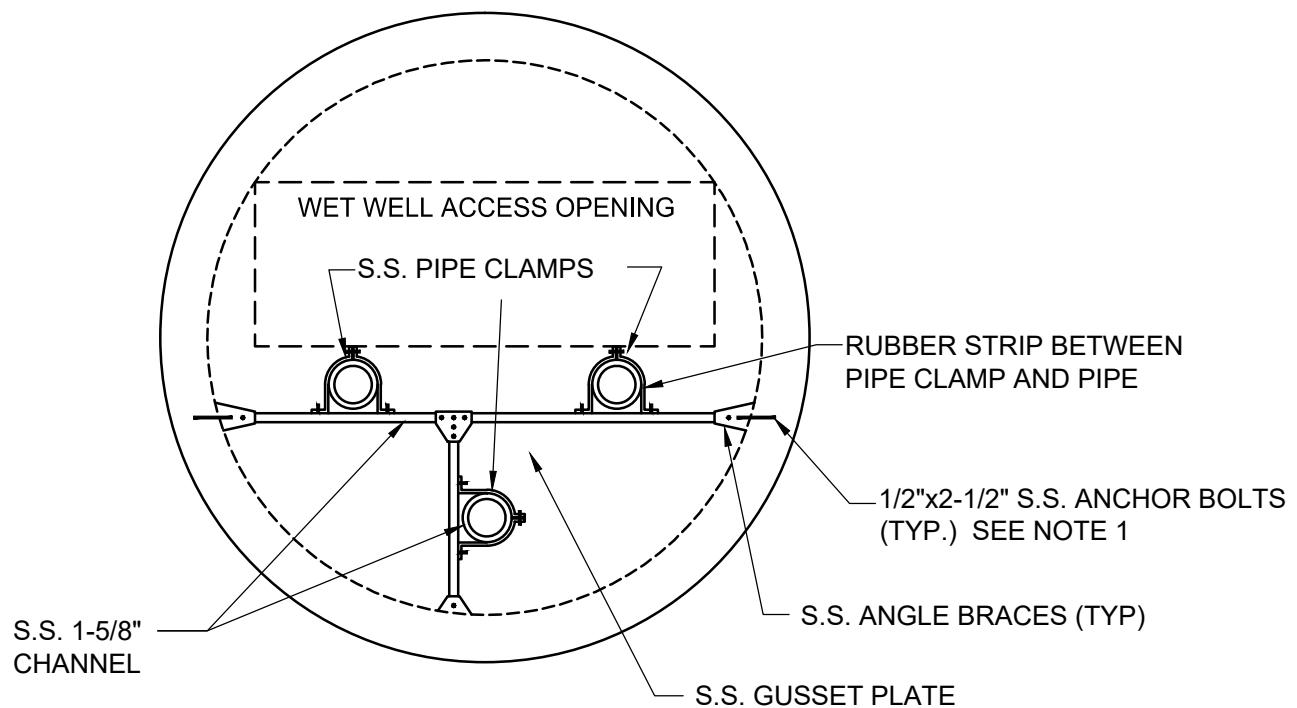
1. HANG FROM STANDARD LIFT STATION RACK

TYPICAL FLOAT TYPE LEVEL SWITCH INSTALLATION

**FIGURE
WW-12-4**

POLK COUNTY UTILITIES, FLORIDA

SEPTEMBER, 2019



NOTE:

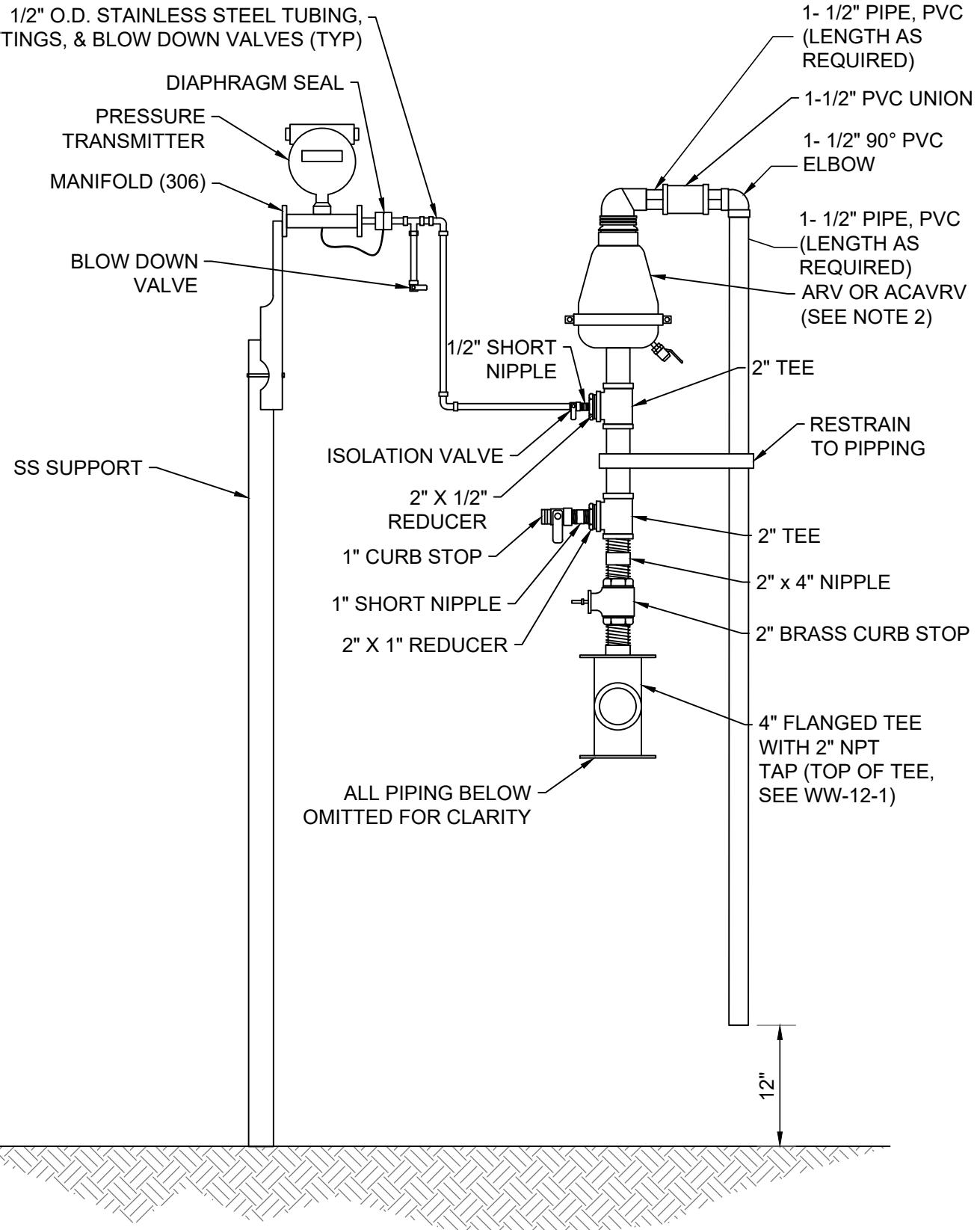
1. BOND ANCHOR BOLTS USING HIGH STRENGTH ANCHORING EPOXY FOR CONCRETE.

**TYPICAL LIFT STATION
HDPE PIPE BRACING**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-12-5**

OCTOBER, 2015



NOTES:

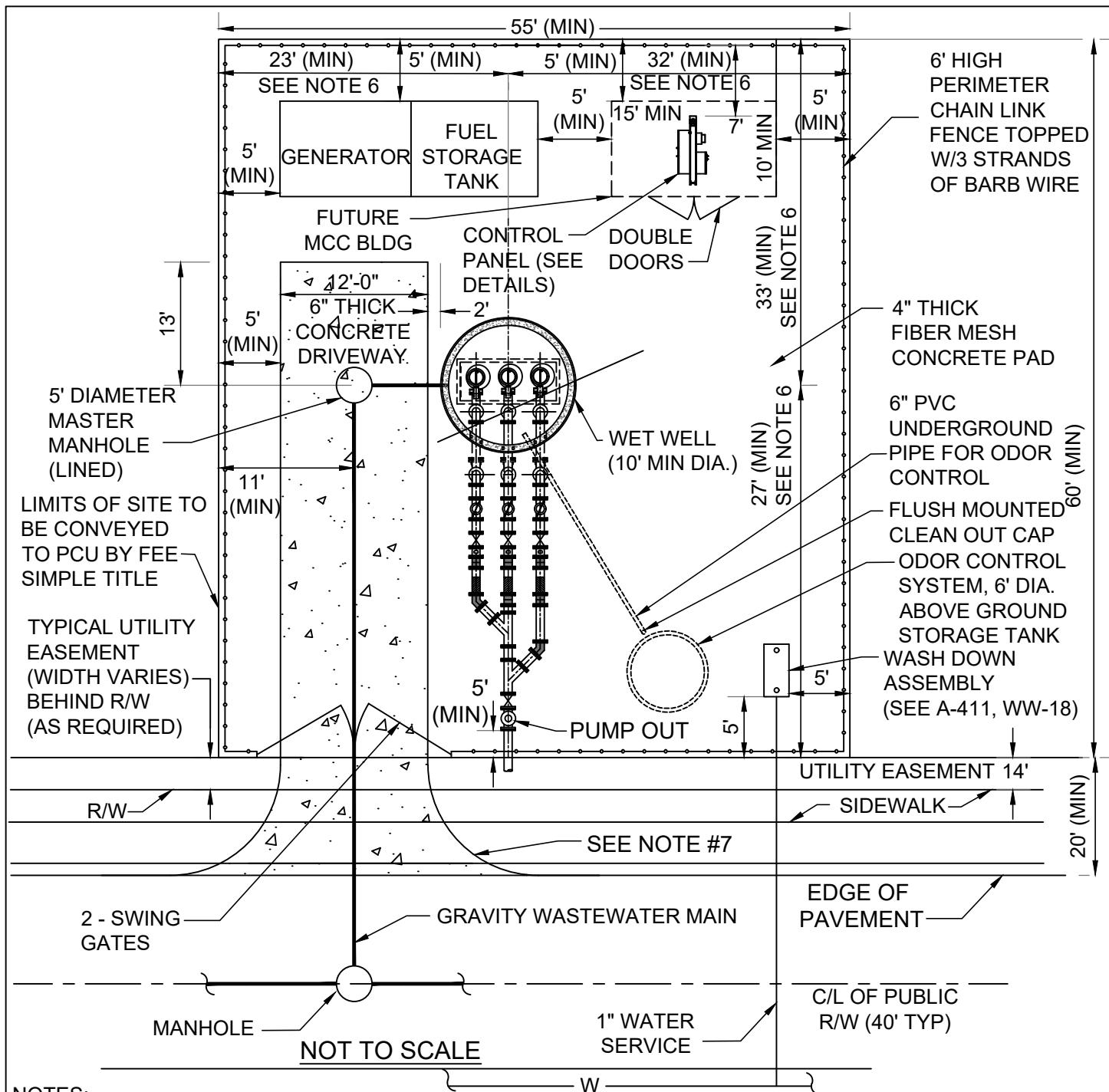
1. ABOVE DETAIL IS BASED ON 2" RELEASE VALVE. CHANGE PIPE AND FITTINGS ACCORDINGLY FOR OTHER VALVE SIZES AND TYPES. VALVE SIZES AND NUMBERS TO BE DETERMINED BY THE ENGINEER AND APPROVED BY PCU PRIOR TO INSTALLATION.
2. AUTOMATIC COMBINATION AIR AND VACUUM RELEASE VALVES (ACAVRV) SHALL UTILIZED AS APPROPRIATE OR REQUIRED BY PCU.

**AUTOMATIC AIR RELEASE VALVE WITH PRESSURE TRANSMITTER
AT LIFT STATION (ABOVE GROUND)**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-12-6**

JULY, 2024

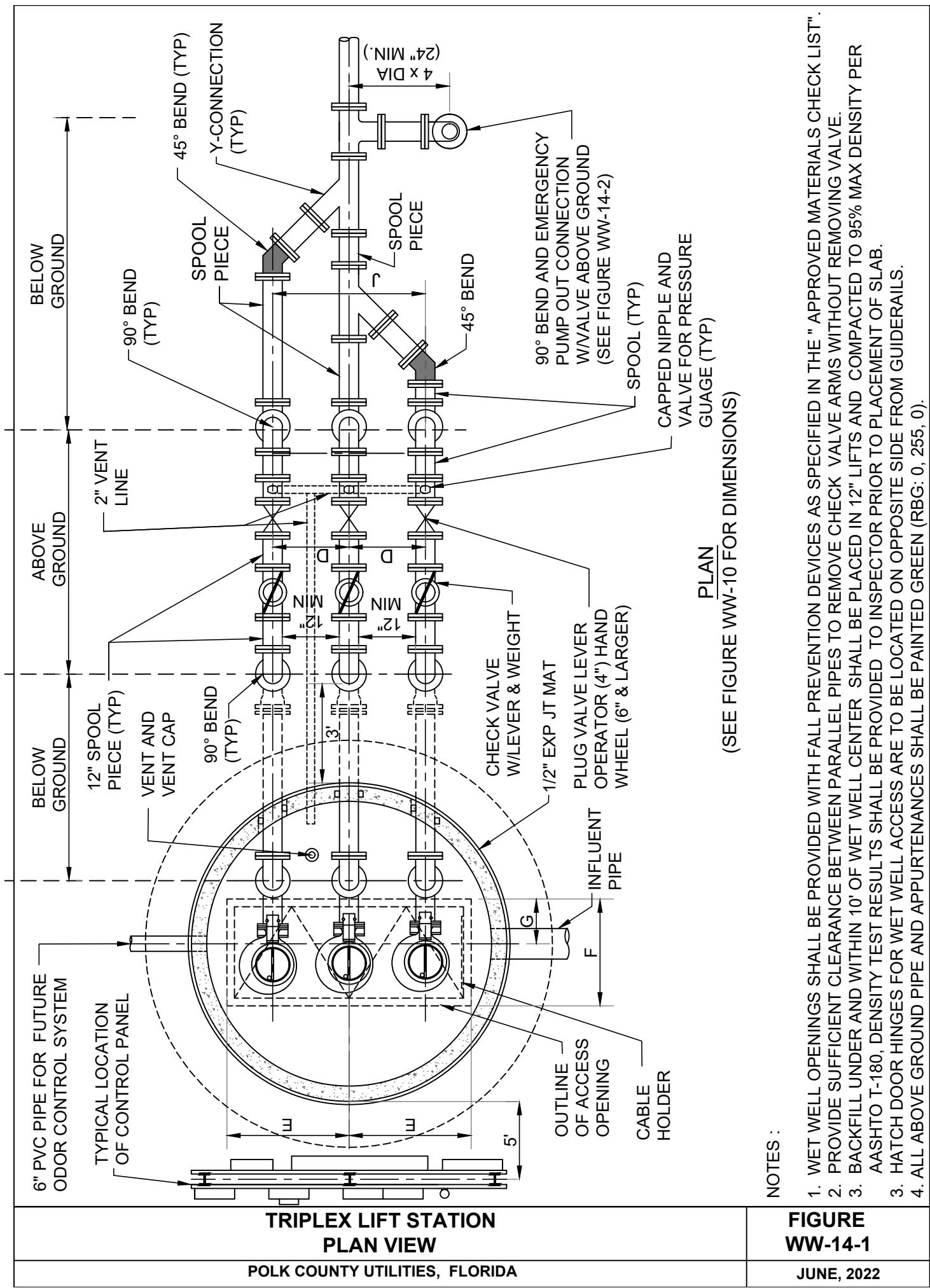


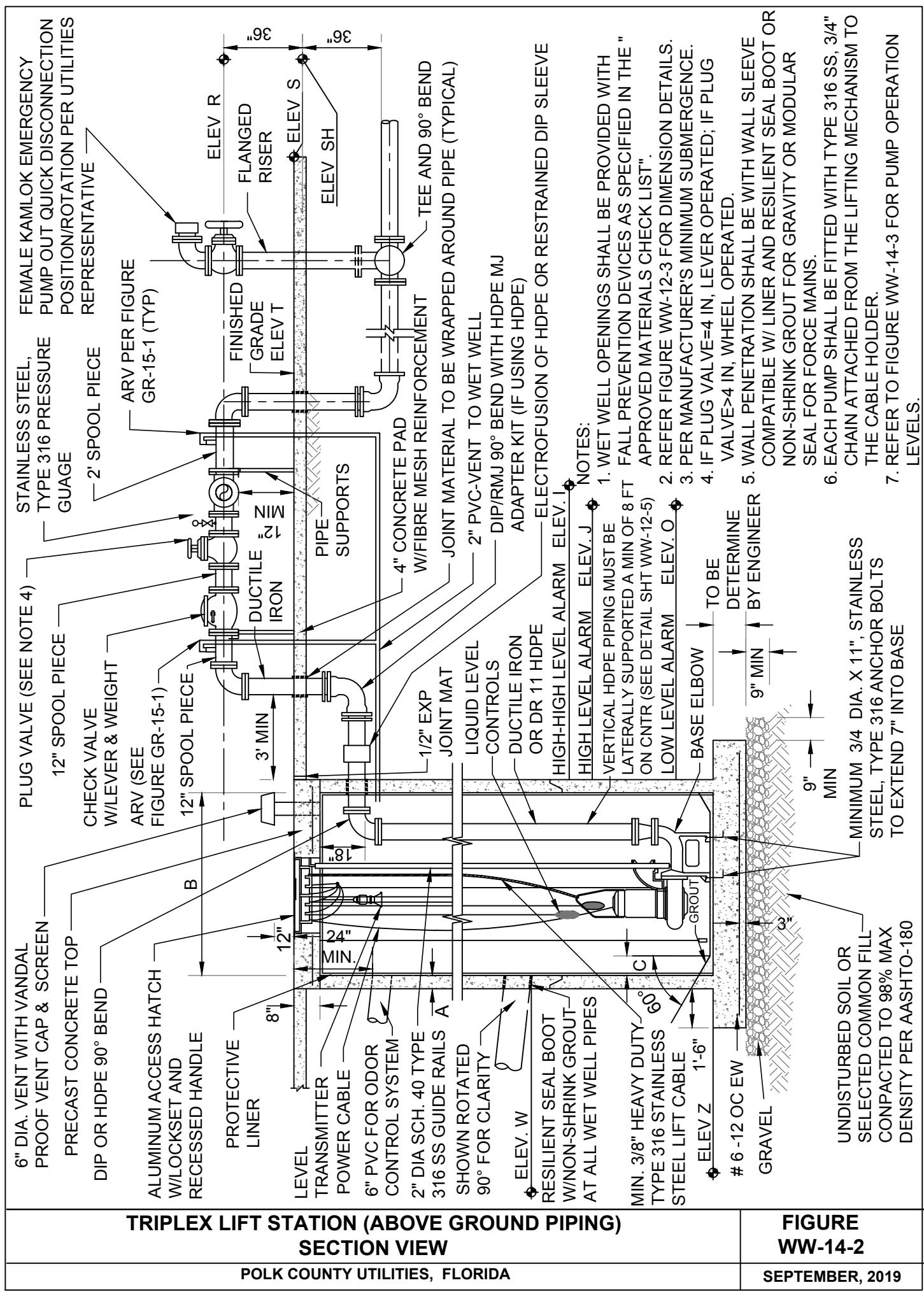
NOTES:

1. WET WELL OPENINGS SHALL BE PROVIDED WITH FALL PREVENTION DEVICES AS SPECIFIED IN THE "APPROVED MATERIALS CHECK LIST".
2. FENCING MAY BE REPLACED WITH OPTIONAL CONCRETE MASONRY WALL (SEE FIGURE WW-17-1 + 2)
3. SLOPE OF STATION PAD AND DRIVEWAY SHALL BE 1/8" PER 1' DOWN SLOPE (1.0%), NO LESS OR MORE, FROM CENTER OF WET WELL TO PERIMETER OF STATION.
4. ENGINEER SHALL PROVIDE A SCALED (1" = 20' MIN) SITE SPECIFIC DETAIL.
5. MINIMUM DISTANCE BETWEEN FENCE AND ALL INSTALLED EQUIPMENT SHALL BE 5.0'.
6. THIS DIMENSION SHALL INCREASE 1.0' FOR EACH FOOT OF ADDITIONAL WET WELL DEPTH OVER 15'.
7. USE OF 25' RADIUS DRIVEWAY AT ROADWAY SHALL BE PROVIDED.
8. MINIMUM DRIVEWAY LENGTH FROM LIFT STATION'S GATES TO THE ADJACENT ROADWAY'S EDGE OF PAVEMENT OR BACK OF CURB SHALL BE 20' ALONG LOW TRAFFIC VOLUME TWO LANE RESIDENTIAL ROADWAYS. DRIVEWAY LENGTH ALONG ALL OTHER ROADWAYS SHALL NOT BE LESS THAN 45'.
9. GRADE CHANGES SHALL BE DESIGNED IN ACCORDANCE WITH FDOT DESIGN MANUAL 214, FIGURE 214.4.2/3; COMMERCIAL WITH A MAXIMUM GRADE OF 10% AND A MAXIMUM GRADE CHANGE OF 14%.

TRIPLEX LIFT STATION (TYPICAL) SITE PLAN

FIGURE WW-13





DESCRIPTION	SYMBOL	DIMENSIONS	ELEVATIONS
THICKNESS OF WALL 8" (MIN)	A		----
DIAMETER OF WET WELL 10' (MIN)	B		----
WIDTH OF BOTTOM FILLET	C	SEE NOTE 1	----
C/L TO C/L OF PUMPS	D	SEE NOTE 1	----
LENGTH OF PUMP ACCESS	E	SEE NOTE 1	----
WIDTH OF PUMP ACCESS	F	SEE NOTE 1	----
BASE ELBOW TO EDGE OF PIT	G	SEE NOTE 1	----
CENTERLINE OF HEADER PIPE	R		----
TOP OF WELL	S		----
FINISH GRADE	T		----
INVERT OF GRAVITY PIPE	P		----
FLOOR OF WET WELL	Z		----
SEASONAL HIGH WATER ELEVATION (SEE NOTE 3)	SH		

NOTE :

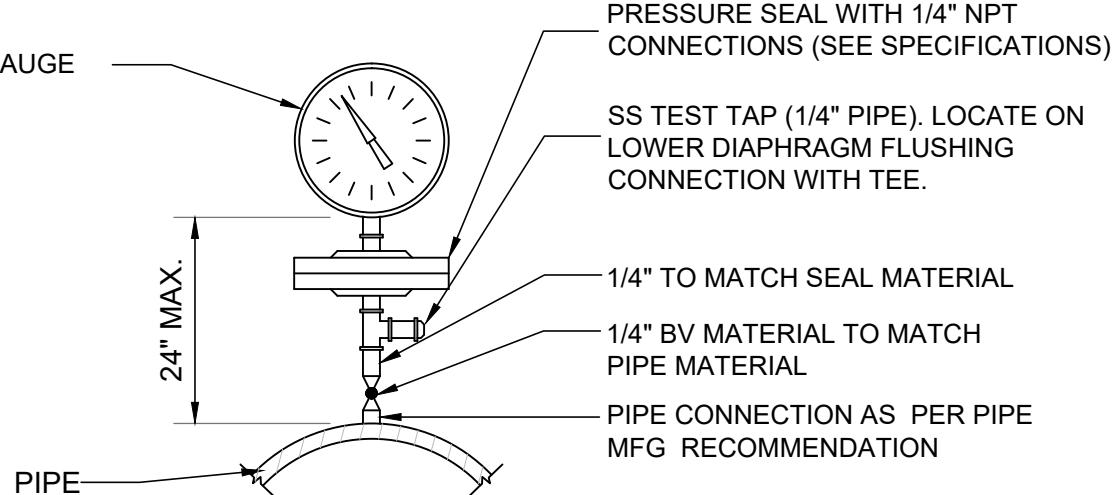
1. THESE DIMENSIONS SHALL BE SET AS PER PUMP MANUFACTURERS REQUIREMENTS.
2. TOP OF PUMP STATION SHALL BE NO LOWER THAN THE 25 YEAR 24 HOUR FLOOD ELEVATION. THE BOTTOM OF STATION CONTROL AND ELECTRICAL BOXES SHALL BE NO LOWER THAN THE 100 YEAR 24 HOUR FLOOD ELEVATION.
3. SEASONAL HIGH GROUND WATER ELEVATION (SH) SHALL BE CONSIDERED THE SAME AS THE TOP OF WET WELL ELEVATION.

DESCRIPTION	SYMBOL	TRANSMITTER ELEVATION	FLOAT ELEVATION
VALVE HIGH-HIGH LEVEL ALARM	I		
HIGH LEVEL ALARM	J		
LAG-LAG PUMP ALARM	L-1		----
LAG PUMP ON	L-2		----
LEAD PUMP ON	M		----
BOTH PUMPS OFF	N		----
LOW LEVEL ALARM	O		

GAUGE/DIAPHRAGM ASSEMBLY

NTS

PRESSURE GAUGE

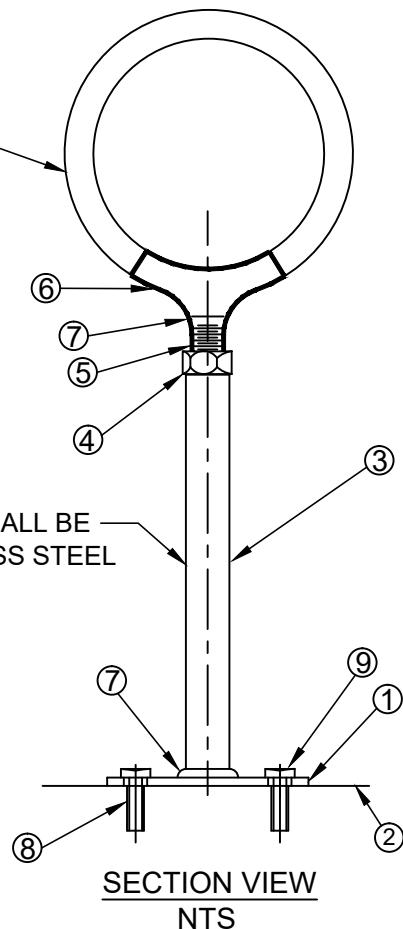


FLANGE PIPE SUPPORT DETAIL

NTS

FLANGED PIPE

ALL MATERIALS SHALL BE
TYPE 316 STAINLESS STEEL



LEGEND

1. BASE
2. CONCRETE PAD
3. SUPPORT COLUMN
4. HEIGHT ADJUSTMENT NUT
5. SUPPORT SHAFT - THREADED
6. MANUFACTURED PIPE SUPPORT CRADLE
7. WELD
8. ANCHOR (4-TYP)
9. LAG BOLT (4-TYP)

SECTION VIEW

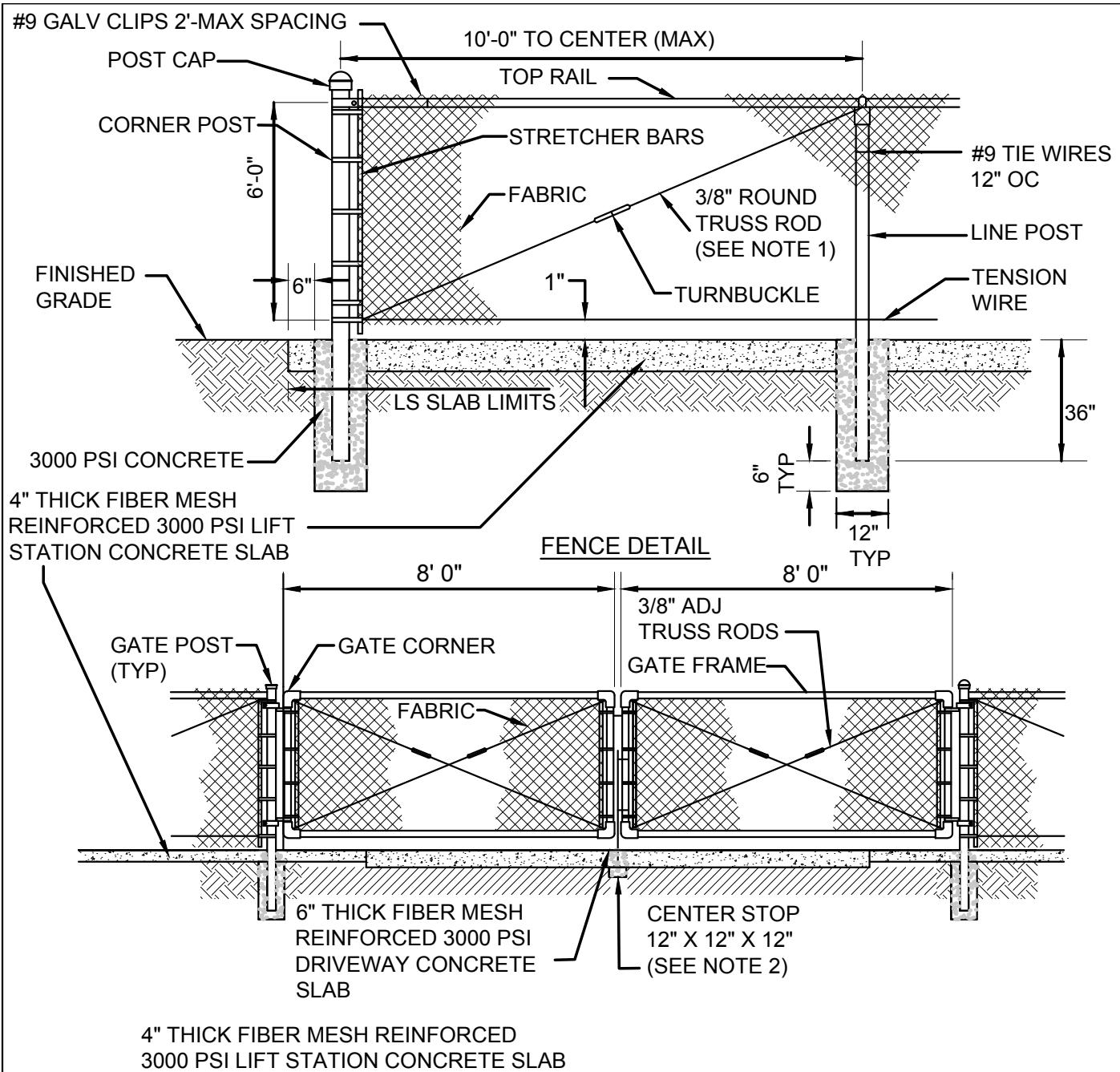
NTS

**PIPE SUPPORT AND GAUGE / DIAPHRAGM ASSEMBLY
(TYPICAL)**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-15**

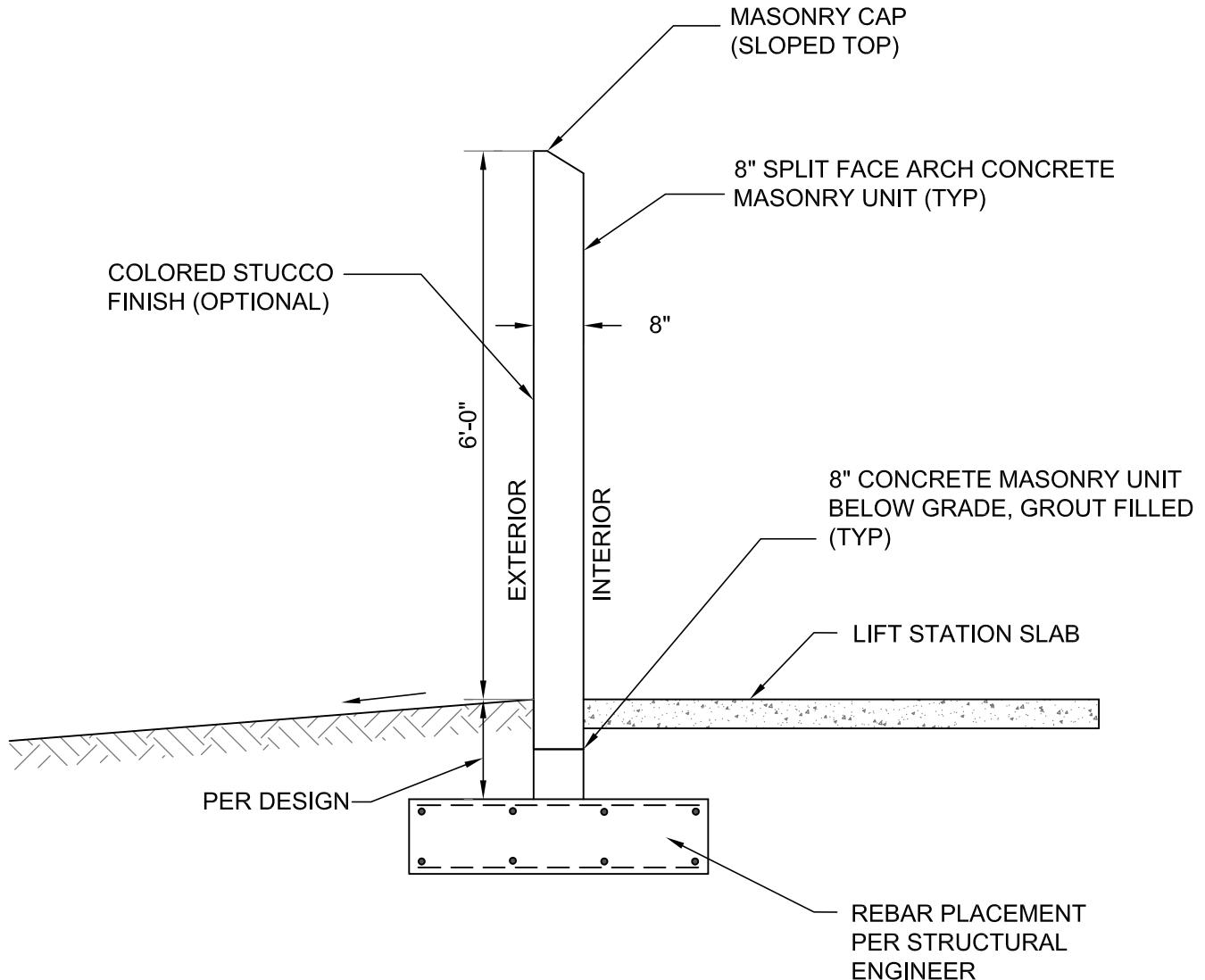
DECEMBER, 2010



DOUBLE SWING GATE DETAIL

NOTES:

1. TRUSS RODS ARE REQUIRED FOR EACH GATE SECTION AND THE FIRST SPAN ON EACH SIDE OF A GATE AND EACH SIDE OF A CORNER POST ONLY.
2. GATE SHALL BE CAPABLE OF BEING LOCKED SECURELY WITH MINIMUM SPACE BETWEEN GATES.
3. FENCING SHALL BE BLACK, FACTORY APPLIED VINYL CLAD.
4. THREE STRANDS OF BARBED WIRE SHALL BE INSTALLED ON TOP ONLY IF APPROVED BY PCU. 2' FENCE AND GATE POST CAP EXTENSION SHALL BE INCORPORATED INTO FENCE AND/OR GATE DESIGN ACCORDINGLY. BARBED WIRE SHALL BE INSTALLED VERTICALLY AT GATE.
5. MINIMUM 15' COMPLETELY CLEAR OPENING REQUIRED TO ACCOMMODATE HEAVY EQUIPMENT AND/OR EMERGENCY VEHICLES.



SECTION VIEW

NOTES:

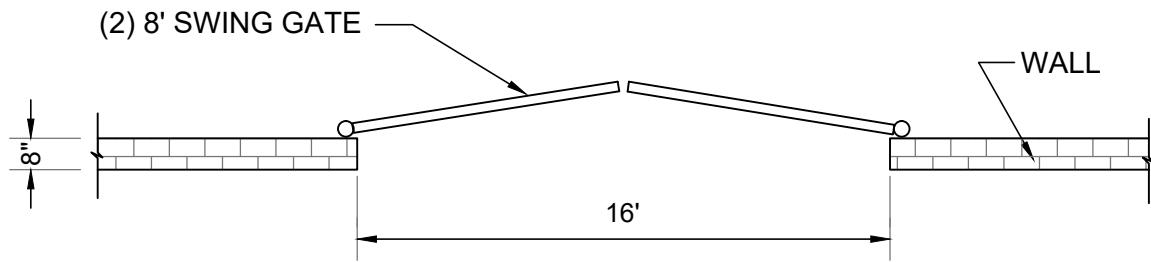
1. ENGINEER TO PROVIDE SIGNED AND SEALED STRUCTURAL WALL DESIGN. WALL PERMIT REQUIRED BY THE POLK COUNTY BUILDING DEPARTMENT.

**LIFT STATION WALL (TYPICAL)
SECTION VIEW**

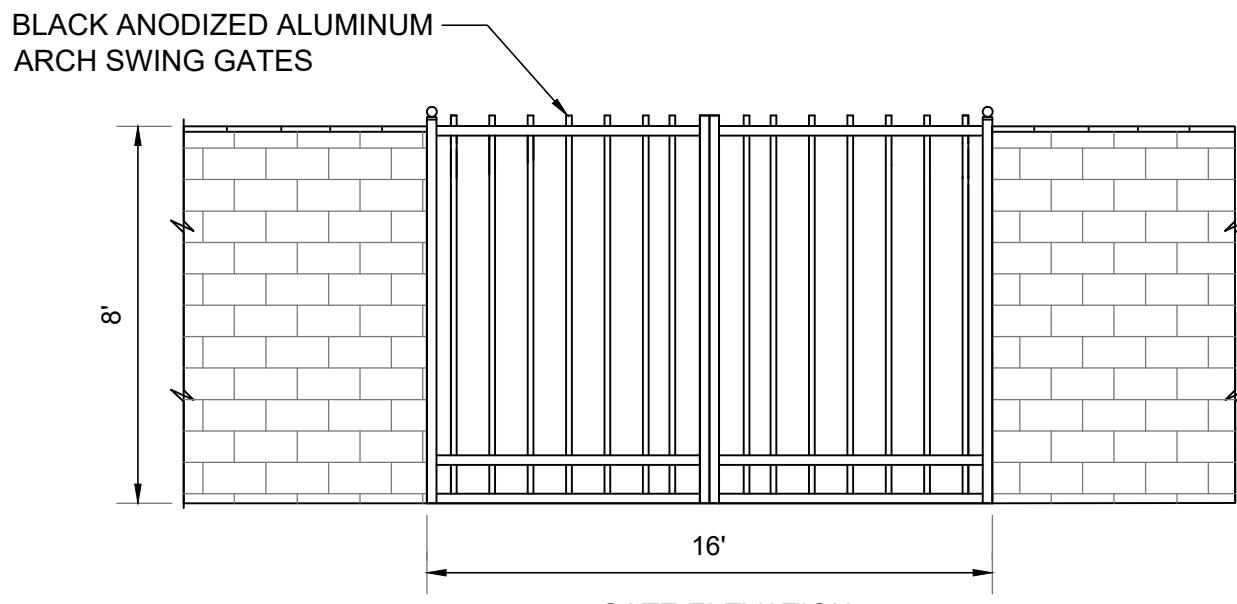
POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-17-1**

OCTOBER, 2013



PLAN VIEW



NOTE:

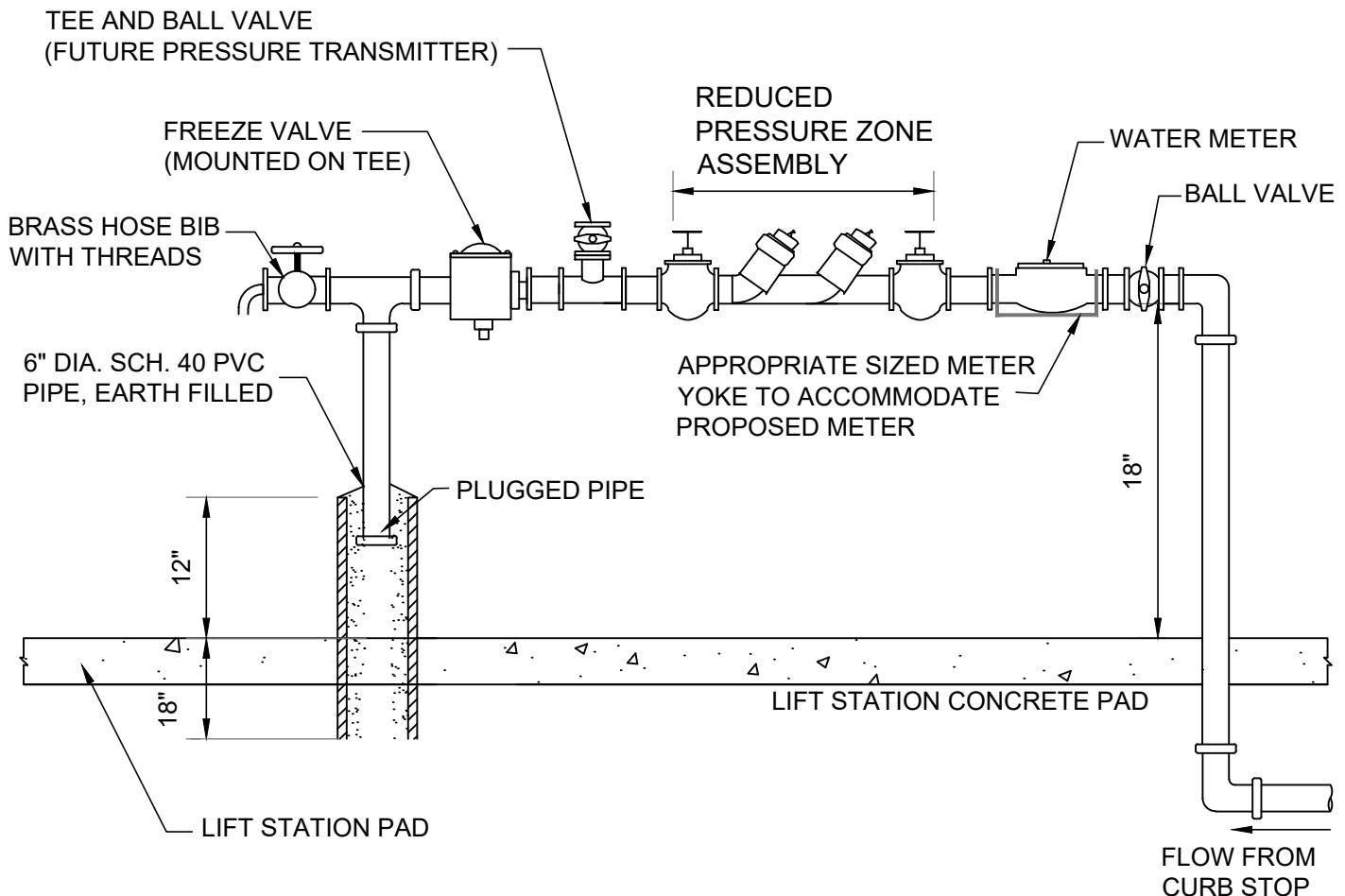
1. A ROLLER TYPE GATE MAY BE SUBSTITUTED FOR SWING GATES AS APPROVED OR REQUESTED BY PCU.

CANTILEVER SWING GATE (TYPICAL)

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-17-2**

DECEMBER, 2010



NOTES:

1. ALL ABOVE GROUND PIPING AND APPURTENANCES SHALL BE 3/4" SCH 40 BRASS PIPE.
2. AN APPROVED REDUCED PRESSURE ZONE ASSEMBLY SHALL BE SELECTED IN ACCORDANCE WITH PCU'S " APPROVED CROSS CONNECTION CONTROL ASSEMBLY LIST"
3. UNDERGROUND PIPING SHALL CONFORM TO POTABLE WATER SERVICE LATERAL SPECIFICATIONS FOR PE PIPE.
4. ALL ABOVE GRADE PIPING SHALL RECEIVE TWO COATS OF BLUE (RGB: 0, 204, 255) EPOXY PAINT.
5. METER SHALL BE FURNISHED AND INSTALLED BY PCU.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ENTIRE ASSEMBLY, INCLUDING METER YOKE.

**LIFT STATION WASH DOWN ASSEMBLY
(TYPICAL)**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-18**

JULY, 2022

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**FIGURE
WW-19**

POLK COUNTY UTILITIES, FLORIDA

DECEMBER, 2010

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FIGURE WW-20-1
POLK COUNTY UTILITIES, FLORIDA

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FIGURE WW-20-2

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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FIGURE WW-20-3

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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**FIGURE
WW-21**

POLK COUNTY UTILITIES, FLORIDA

DECEMBER, 2010

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FIGURE WW-22-1

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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FIGURE WW-22-2

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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**FIGURE
WW-22-3**

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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**FIGURE
WW-22-4**

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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**FIGURE
WW-22-5**

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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**FIGURE
WW-22-6**

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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**FIGURE
WW-22-7**

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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FIGURE WW-22-8

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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FIGURE WW-22-9

POLK COUNTY UTILITIES, FLORIDA

AUGUST, 2022

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POLK COUNTY UTILITIES, FLORIDA	FIGURE WW-23

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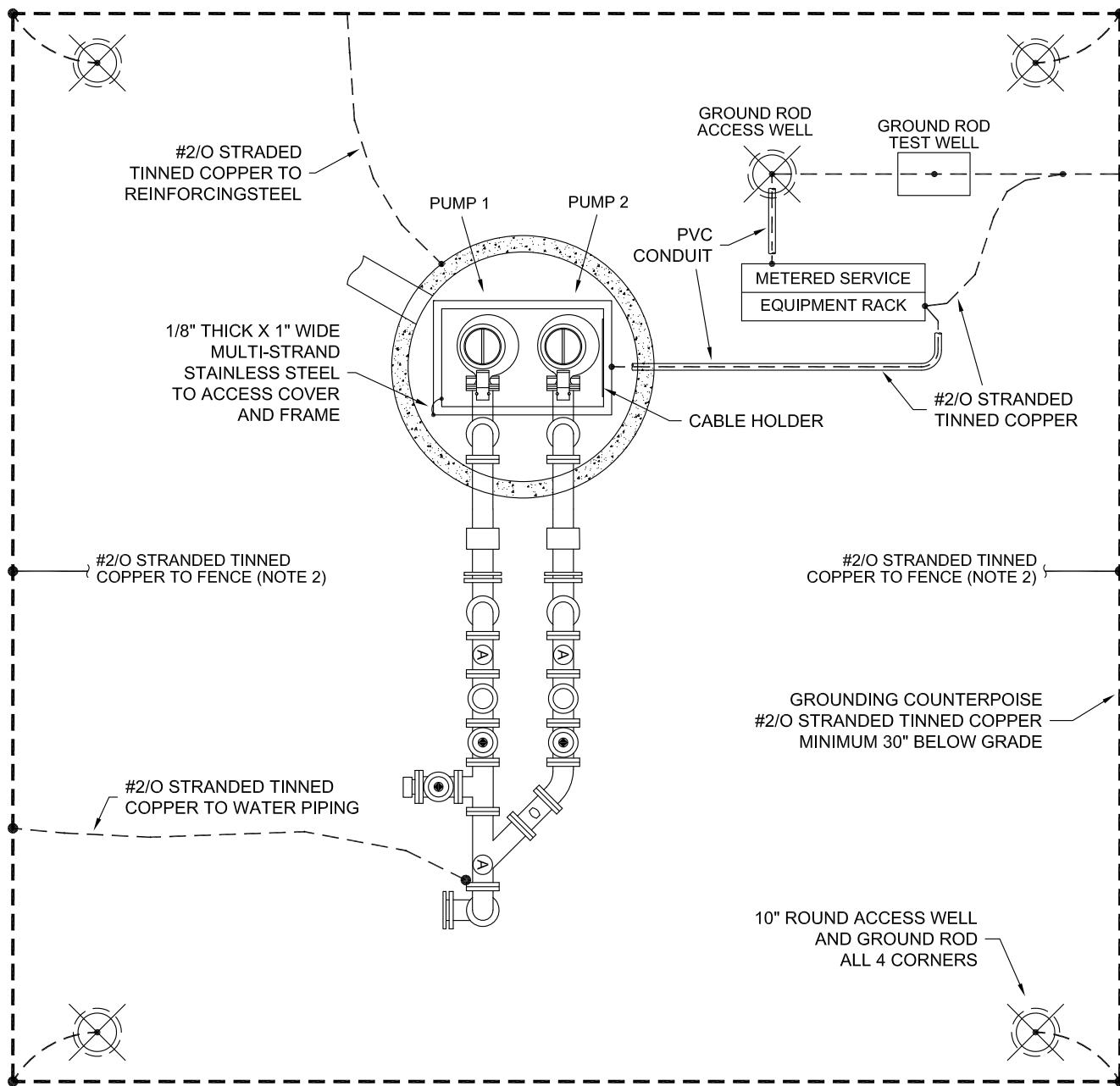
**FIGURE
WW-24**

POLK COUNTY UTILITIES, FLORIDA

SEPTEMBER, 2019

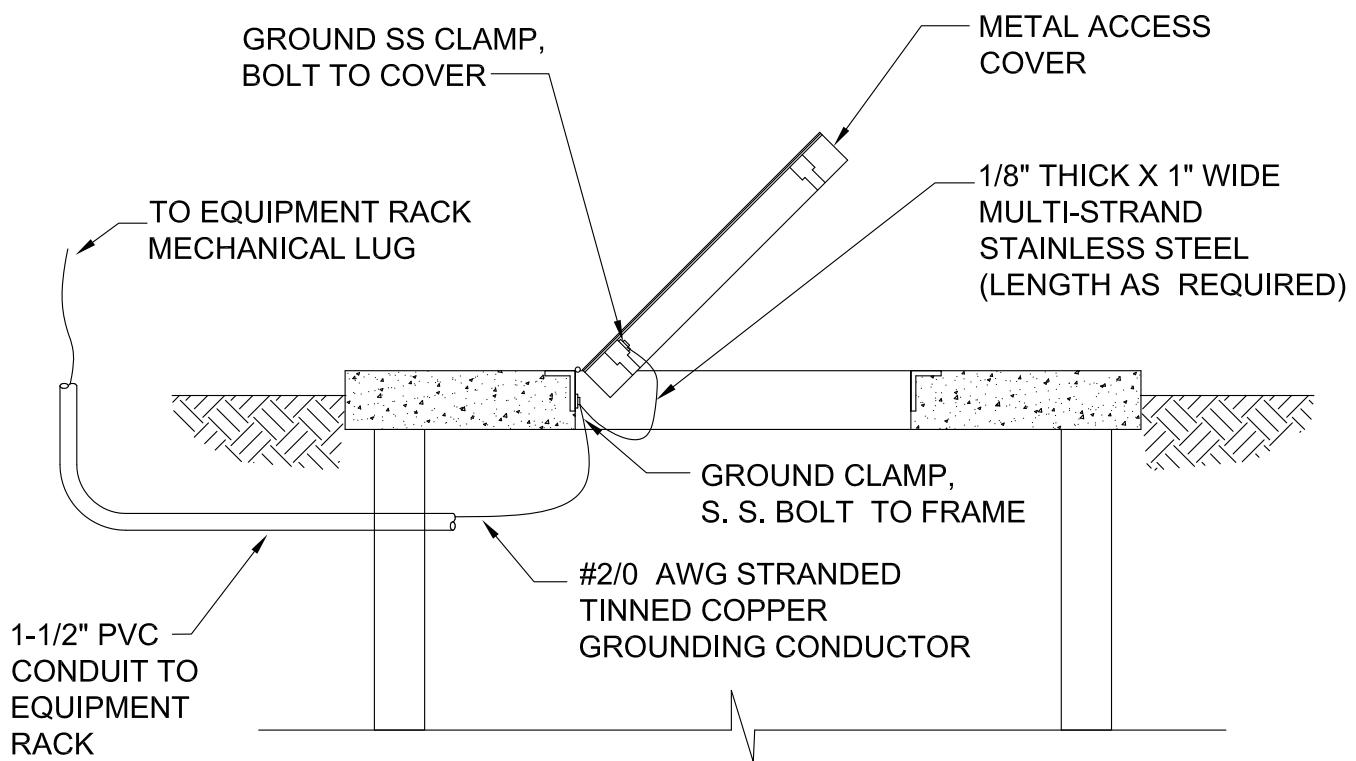
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POLK COUNTY UTILITIES, FLORIDA	FIGURE WW-25
	SEPTEMBER, 2019



NOTES:

1. THIS DETAIL IS TYPICAL AND SPECIFIC LOCATIONS OF EQUIPMENT MAY BE DIFFERENT.
2. FENCE SHALL BE GROUNDED AT A MINIMUM OF TWO LOCATIONS CONFORMING TO FIGURE WW-26-4 (NOT REQUIRED WHERE BLOCK WALL OR WOOD FENCE IS INSTALLED).
3. MECHANICAL CONNECTORS TO BE USED FOR GROUND ROD CABLE CONNECTIONS.
4. BELOW GRADE CABLE CONNECTIONS TO BE EXOTHERMIC WELDED UNLESS OTHERWISE NOTED.
5. ALL GROUNDING CABLES REQUIRE A CONDUIT SLEEVE THROUGH THE CONCRETE.
6. WET WELL GROUNDING CABLE FROM THE GROUNDING COUNTERPOISE ATTACHES TO THE EQUIPMENT RACK I-BEAM WITH A DOUBLE WIRE CABLE LUG.

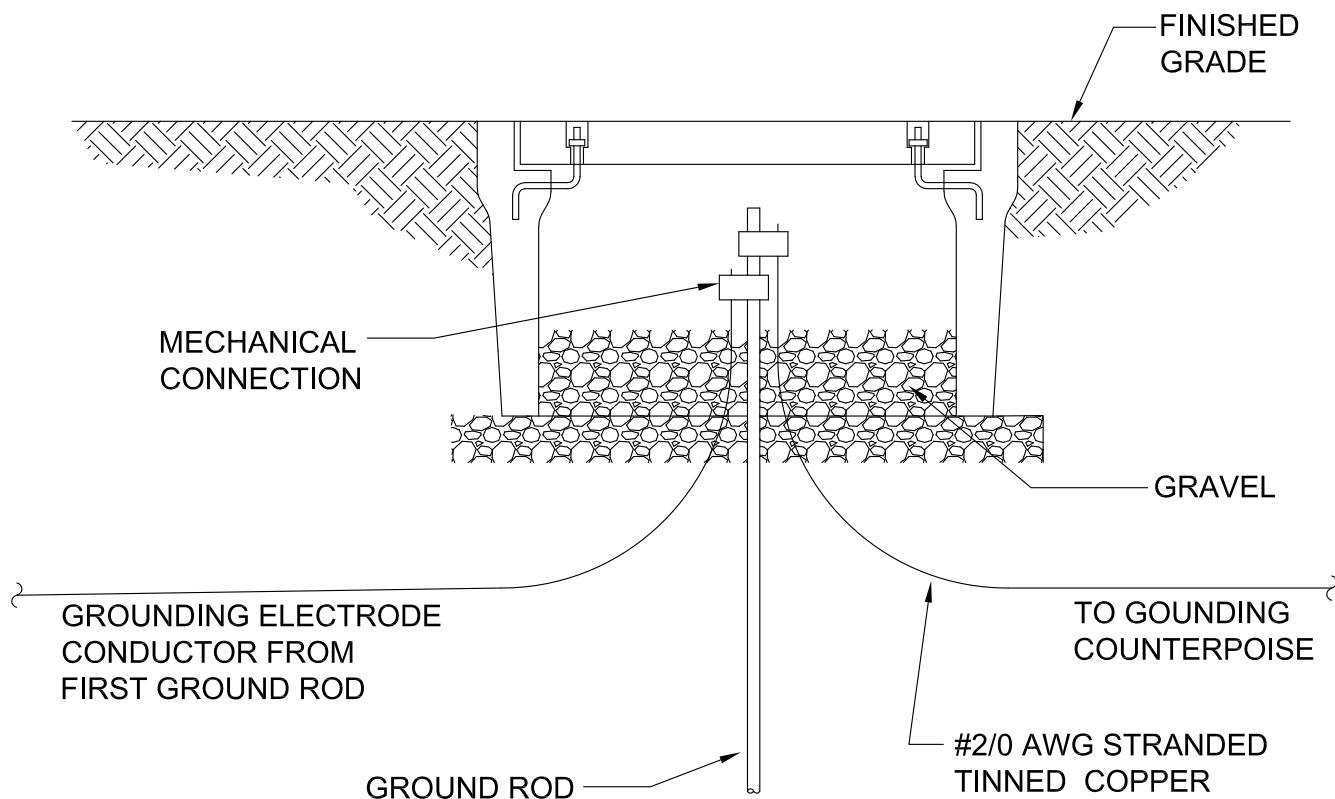
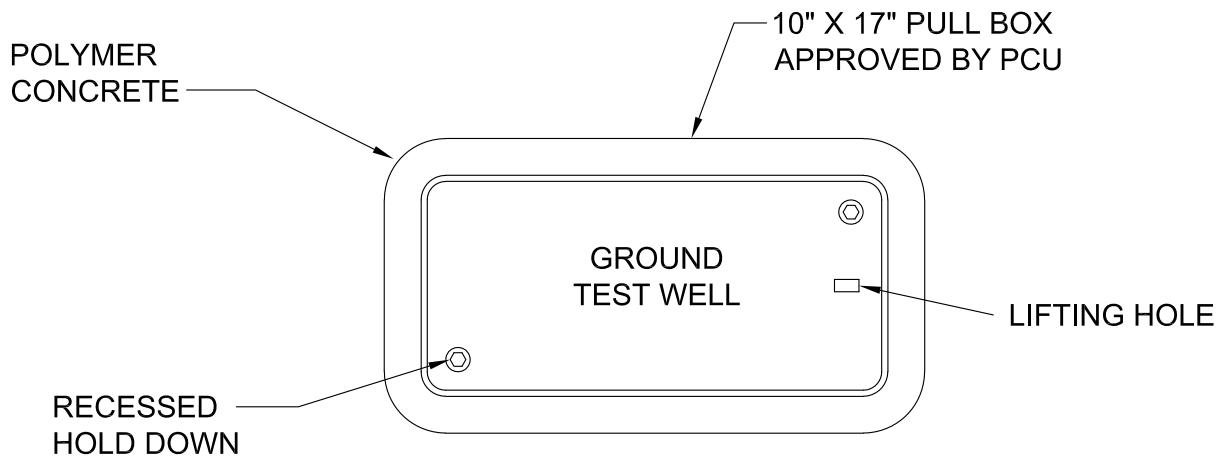


NOTES:

1. ON COVERS WITH MULTIPLE DOORS, PROVIDE BRAID FROM FRAME TO DOOR ON EACH DOOR PROVIDE WATERPROOF CAULKING WHERE GROUND CABLE AND CONDUIT PENETRATES WETWELL TO PREVENT INTRUSION OF GROUNDWATER AND ESCAPE OF VAPORS FROM WETWELL.
2. INSTALL GROUND WIRE SO THAT IT WILL NOT CROSS CLEAR OPENING OR PREVENT NORMAL METHOD OF REMOVING FLOATS OR PUMPS.

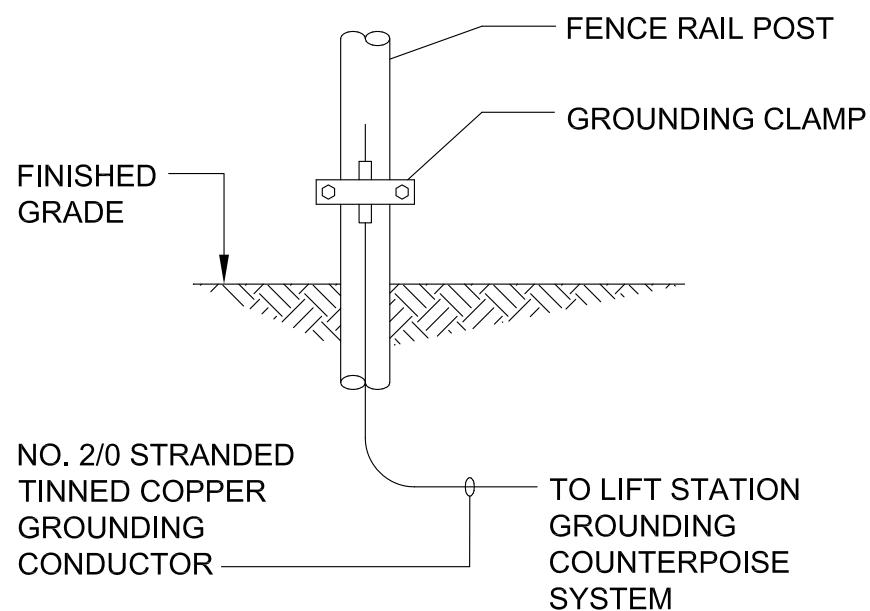
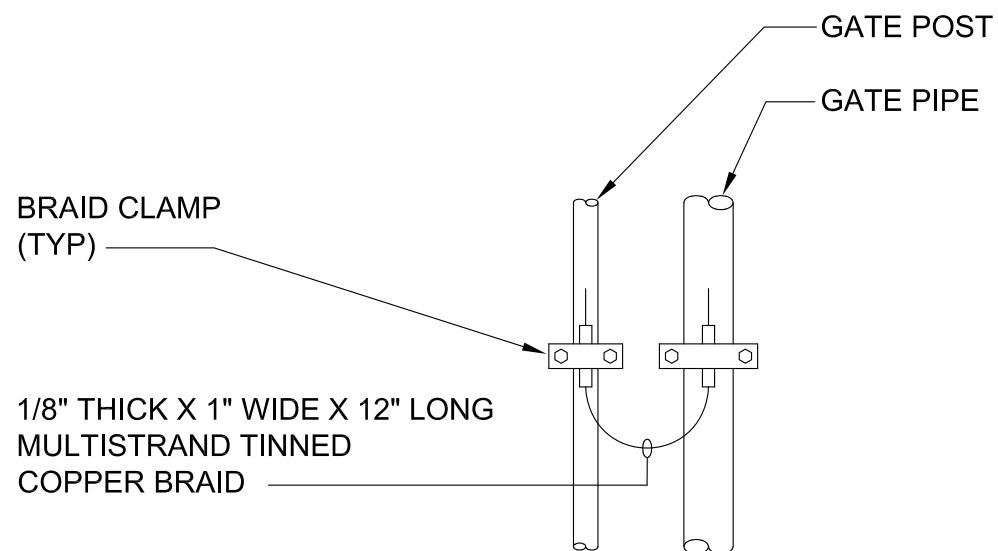
LIFT STATION COVER AND DOOR GROUNDING

**FIGURE
WW-26-2**



LIFT STATION GROUND TEST WELL

**FIGURE
WW-26-3**



LIFT STATION FENCE POST GROUNDING

**FIGURE
WW-26-4**

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**SCADA PRESSURE SENSOR
WATER SERVICE**

POLK COUNTY UTILITIES, FLORIDA

**FIGURE
WW-27**

SEPTEMBER, 2014