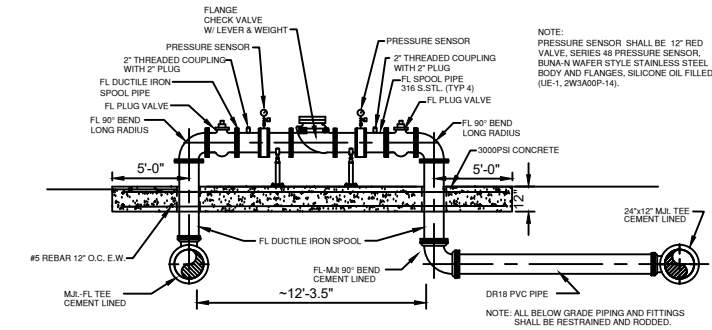
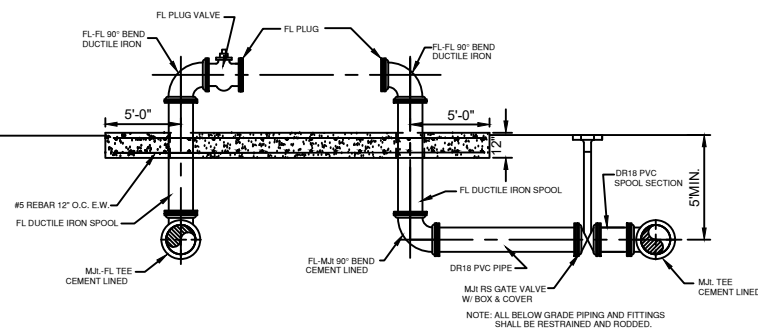


PUMP PIPING DETAIL



PRESSURE CONTROL STATION



FUTURE PUMP PIPING DETAIL

STANDBY BACKUP PUMP			
MANUFACTURER (NOTE #1)			
MODEL			
ENGINE H.P.			
NPSHR			
FLOW GPM @TDH			
RPM			
DISCHARGE PIPE SIZE			
SUCTION PIPE SIZE			

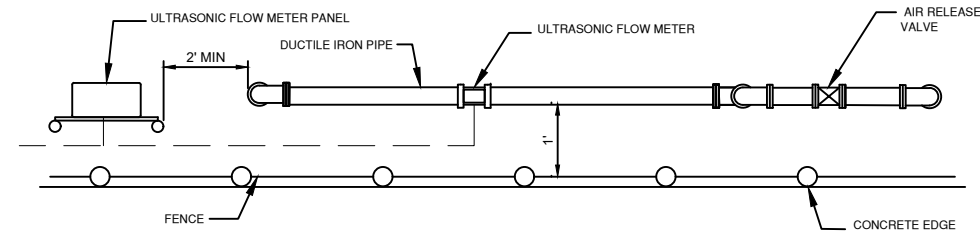
GENERATOR				
MANUFACTURER	AKSA	CATERPILLAR	CUMMINS	GENERAC
MODEL				
KW				

- PUMP STATION INFORMATION NOTES:**
- SEE JEA STANDARDS VOLUME 3 (WATER AND WASTEWATER APPROVED MATERIALS MANUAL) FOR APPROVED MANUFACTURES
 - IF PUMP MANUFACTURER REQUIRES A GREATER SEPARATION, THAT SEPARATION SHALL BE USED WITH THE ADDITION OF FLANGED FILLERS OR SPOOL PIECES. THE DIFFERENT SEPARATION MUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO JEA.
 - ALL PUMP MOTORS SHALL BE 3 PHASE.
 - MANUAL TRANSFER SWITCH SHALL BE INSTALLED.

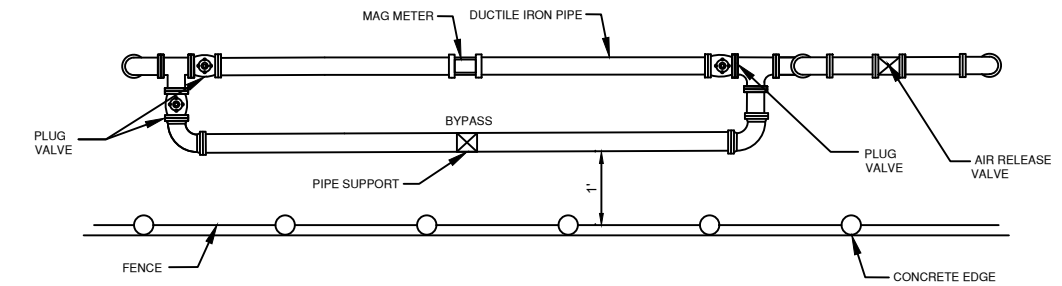
- CONSTRUCTION NOTES:**
- SLOPE CONCRETE TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
 - CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
 - SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
 - CONTRACTOR SHALL KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.
 - TRANSFORMERS SHALL BE LOCATED ON THE SAME SIDE OF PROPERTY AS METER CAN AND ELECTRICAL PANELS.

- GENERAL NOTES:**
- ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION XXX, "IN-LINE BOOSTER WATER PUMP STATION" JEA WATER AND WASTEWATER STANDARDS MANUAL.
 - PENETRATION SOIL BORING INFORMATION, TAKEN AT STATION LOCATION, SHALL BE SUBMITTED PRIOR TO SHOP DRAWING SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEP OR UNTIL SUITABLE SOIL IS LOCATED.
 - ALL PIPING SHALL BE FLANGED SCHEDULE 40, 316 STAINLESS STEEL. BUTT WELDING OF ANY PIPING IS NOT ALLOWED.
 - UNDERGROUND FITTINGS (90s, 45s, TEES ETC.) SHALL BE FLANGED DUCTILE IRON EPOXY LINED. ABOVE GROUND FITTINGS (90s, 45s, TEES ETC.) SHALL BE FLANGED SCHEDULE 40, 316 STAINLESS STEEL.
 - ALL NUTS, BOLTS AND ACCESSORIES SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH A "NEVER SEIZE" TYPE COATING.
 - SITE GRADE IS 6" (MIN) BELOW TOP ELEVATION OF PUMP STATION SLAB.
 - IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).
 - SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCTION DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL, LANDSCAPING AND FENCING.
 - SEE REFERENCE FACILITIES STANDARDS DIVISION 26 FOR GENERATOR AND ATS. ([HTTPS://WWW.JEA.COM/ENGINEERING_AND_CONSTRUCTION/JEA_FACILITIES_STANDARDS/](https://www.jea.com/engineering_and_construction/jea_facilities_standards/))

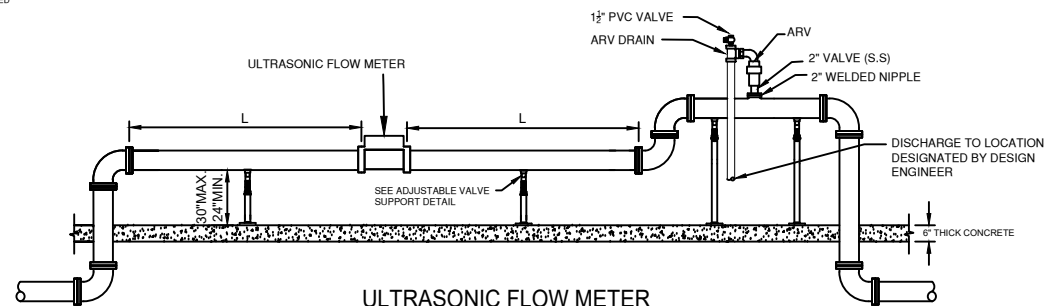
- DESIGN NOTES:**
- ENGINEER SHALL USE THIS PLAN AS A BASIS OF DESIGN FOR SITE SPECIFIC PUMP STATION. THESE NOTES TO BE ERASED ON COMPLETED DRAWING.
 - STATION MINIMUM FLOW RATE: 2001 GPM
 - MINIMUM ELECTRIC SERVICE SIZE: 480 VOLT, 200 AMP., 3 PHASE, 4 WIRE
 - MINIMUM CONCRETE PAD SIZE: 55x60'
 - IT IS THE ENGINEER'S RESPONSIBILITY TO DESIGN THE SITE TO MEET FUNCTIONALITY AND SITE SPECIFIC CONDITIONS. HOWEVER, THE ENGINEER SHALL MAKE EVERY EFFORT TO CONFORM TO THE STANDARD DRAWING SHOWN HERE.
 - HOW TO DETERMINE TOWER OR POLE FOR SCADA (SEE ALSO SPEC SECTION 433): TO DETERMINE IF A POLE OR TOWER IS REQUIRED A RADIO PATH STUDY MUST FIRST BE CONDUCTED. THE RADIO PATH STUDY MUST BE DONE USING THE SAME TYPE OF RADIO USED IN THE SCADA PANEL AND MUST BE A MINIMUM OF -86DB RSSI. IF THE HEIGHT OF THE MINIMUM -86DB RSSI LEVEL IS LESS THAN OR EQUAL TO 20 FEET THEN A 20 FOOT POLE CAN BE USED. IF THE HEIGHT REQUIREMENTS ARE OVER 20 FEET THEN A TOWER MUST BE USED.



ULTRASONIC FLOW METER

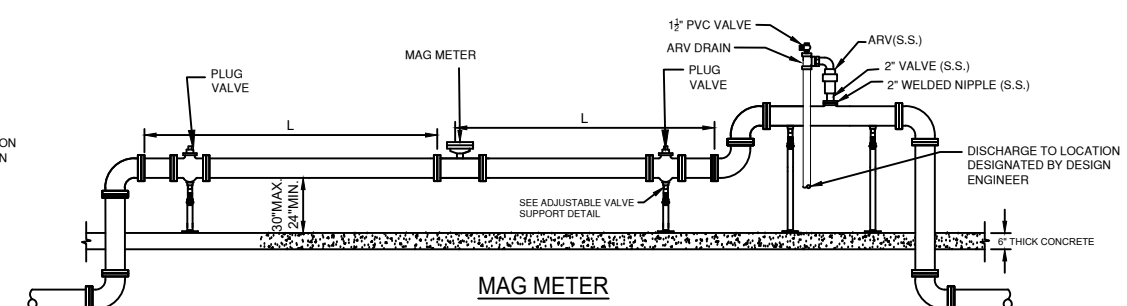


MAG METER BYPASS



ULTRASONIC FLOW METER DETAIL

NOT TO SCALE



MAG METER DETAIL

NOT TO SCALE

- METER NOTES:**
- DIMENSION "L" AS SPECIFIED BY THE METER MANUFACTURER TO PROVIDE THE MAXIMUM STATED ACCURACY.

SITE SPECIFIC

NO.	BY	DATE	REVISIONS
1			
2			
3			
4			
5			

DESIGNER: _____

DRAWN BY: _____

CHECKED BY: _____

DATE: _____

DESIGN ENGINEER

FLORIDA REGISTRATION NO.

JEA sm

Building Community

JEA STANDARD

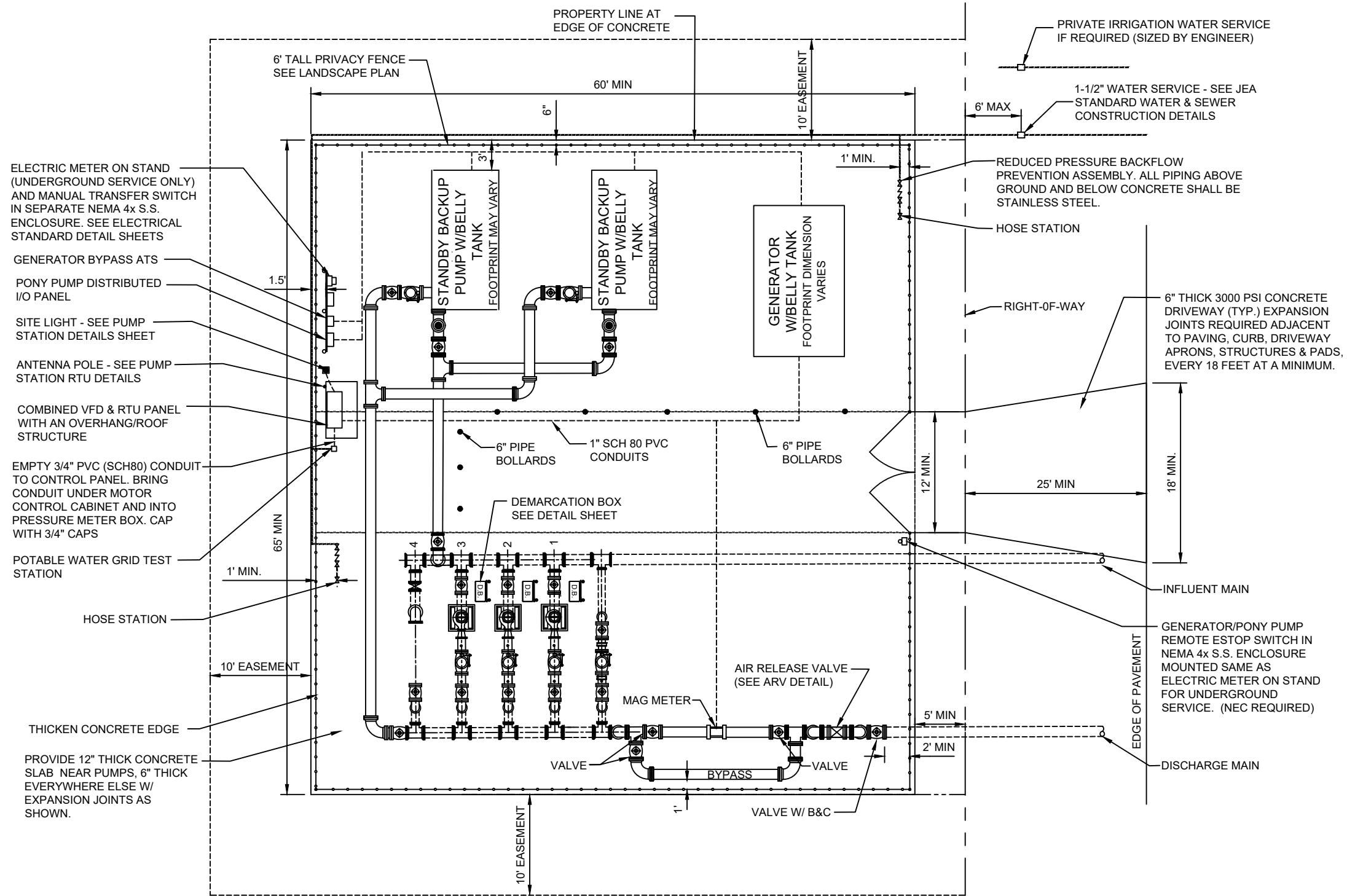
IN-LINE WASTE/RECLAIMED BOOSTER STATION

PLAN AND SECTION

PROJ. NO.	
DATE:	
SCALE:	NTS

NO. SHEETS	
SHEET NO.	
DRAWING NO.	

PUMP STATION INFORMATION									
PUMP STATION STREET ADDRESS	TOP ELEVATION	SITE FLOOD ELEVATION	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	PUMP MANUFACTURER	PUMP HORSEPOWER (HP)	PUMP DESIGN POINT (GPM)@TDH (FT)	PUMP RUNOUT POINT (GPM)@TDH (FT)	PUMP VOLTAGE
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SITE SPECIFIC		NO.	BY	DATE	REVISIONS
		1			
		DESIGN ENGINEER			
		DESIGNER			
		DRAWN BY			
		CHECKED BY			
		DATE			
		FLORIDA REGISTRATION NO.			
		JEA STANDARD INLINE WASTE/RECLAIMED BOOSTER STATION PLAN AND SECTION			
PROJ. NO.					
DATE:					
SCALE:	NTS				
NO. SHEETS					
SHEET NO.					
DRAWING NO.					