

PUMP STATION STREET ADDRESS	PUMP STATION INFORMATION SCHEDULE OF ELEVATIONS																		
	TOP ELEV (NOTE 9)	MERCID LEVEL	ALARM ELEVATION	LEFT BLANK	LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE (SEE TABLE BELOW)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5	P - 0.5		P - 1.0	P - 1.5	F - SV	G - 3'											

ALL PUMPS			
PUMP MANUFACTURER	WIL/EMUJ	FLYGT	HYDROMATIC
MODEL	---	---	---
IMPELLER	---	---	---
PUMP DISCHARGE	---	---	---
MOTOR (RPM)	---	---	---
HORSEPOWER (HP)	---	---	---
PHASE/VOLT/AMPS (NOTE #3)	---	---	---
AIC (SEE NOTE #4)	---	---	---
DESIGN POINT (GPM) @ TDH (FT)	---	---	---
RUNOUT POINT (GPM) @ TDH (FT)	---	---	---
EMERGENCY MAIN	---	---	---
NORMAL SERVICE MAIN	---	---	---
CB #1 TO PUMP NO. 1	---	---	---
CB #2 TO PUMP NO. 2	---	---	---
CONTROL PANEL MCB	---	---	---
CONTROL PANEL ECB	---	---	---
GENERATOR RECEPTACLE (NOTE #5)	---	---	---
STARTER (SIZE & TYPE)	---	---	---
ELECTRIC SERVICE (TYPE & SIZE)	---	---	---

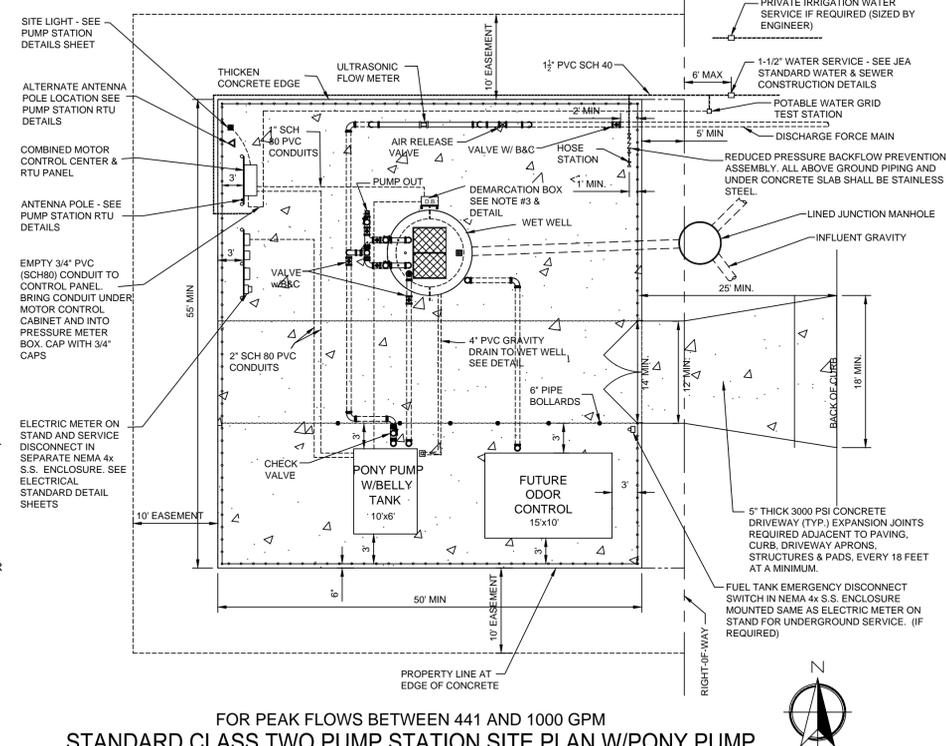
DISCHARGE PIPE DATA (WITHIN WET WELL)				
PIPE SIZE (J)	PIPE HOLE DIA. (N)	PUMP SEPARATION (PS)	MIN PUMPOUT SIZE (PO)	HATCH SIZE (MIN.)
4"	10"	26"	4"	36"x48"
6"	12"	32"	6"	36"x60"
FREE STANDING PUMPOUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER	---	---	14" & LARGER	---

WET WELL DIMENSIONS		
WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
8'-0"	0'-9"	0'-10"
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

- PUMP STATION INFORMATION NOTES:**
- "SV" = STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME. MINIMUM STORAGE DEPTH SHALL BE 24".
 - 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.
 - AMPERE INTERRUPTING CAPACITY (AIC); CONTACT ELECTRICAL UTILITY FOR THIS DATA.
 - A GENERATOR RECEPTACLE SHALL BE PROVIDED REGARDLESS IF A PONY PUMP IS INSTALLED.

- 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.
 - WETWELL SIZE: PUMP STATION 8'-0" I.D. MIN., 27" DEEP MAX.
 - MINIMUM FLOW RATE: 500 GPM EACH PUMP
 - MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP., 3 PHASE, 4 WIRE
 - MINIMUM CONCRETE PAD SIZE: 50'x55'
 - MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.
 - 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 8000 RSSI. IF THE HEIGHT OF THE MINIMUM 8000 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.
 - THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION. THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
 - FLOW METER: ULTRASONIC FLOW METER CONFIGURATION SHALL BE DESIGNED BY ENGINEER.

- GENERAL NOTES:**
- ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433. "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
 - PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
 - PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL (SCHEDULE 10, ONE PIECE CONSTRUCTION), FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
 - FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE STAINLESS STEEL (FLANGED, SCHEDULE 10), ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
 - ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
 - THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED W/ EUCOLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OTHER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
 - PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 1/2" WIDE x 1/2" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
 - PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM. SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
 - 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).
 - PRECAST CONCRETE WETWELL SHALL MEET A S.T.M. C-478 STANDARD. ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
 - SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCTION DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.



FOR PEAK FLOWS BETWEEN 441 AND 1000 GPM
STANDARD CLASS TWO PUMP STATION SITE PLAN W/PONY PUMP
 SCALE: 1"=4'

SITE SPECIFIC

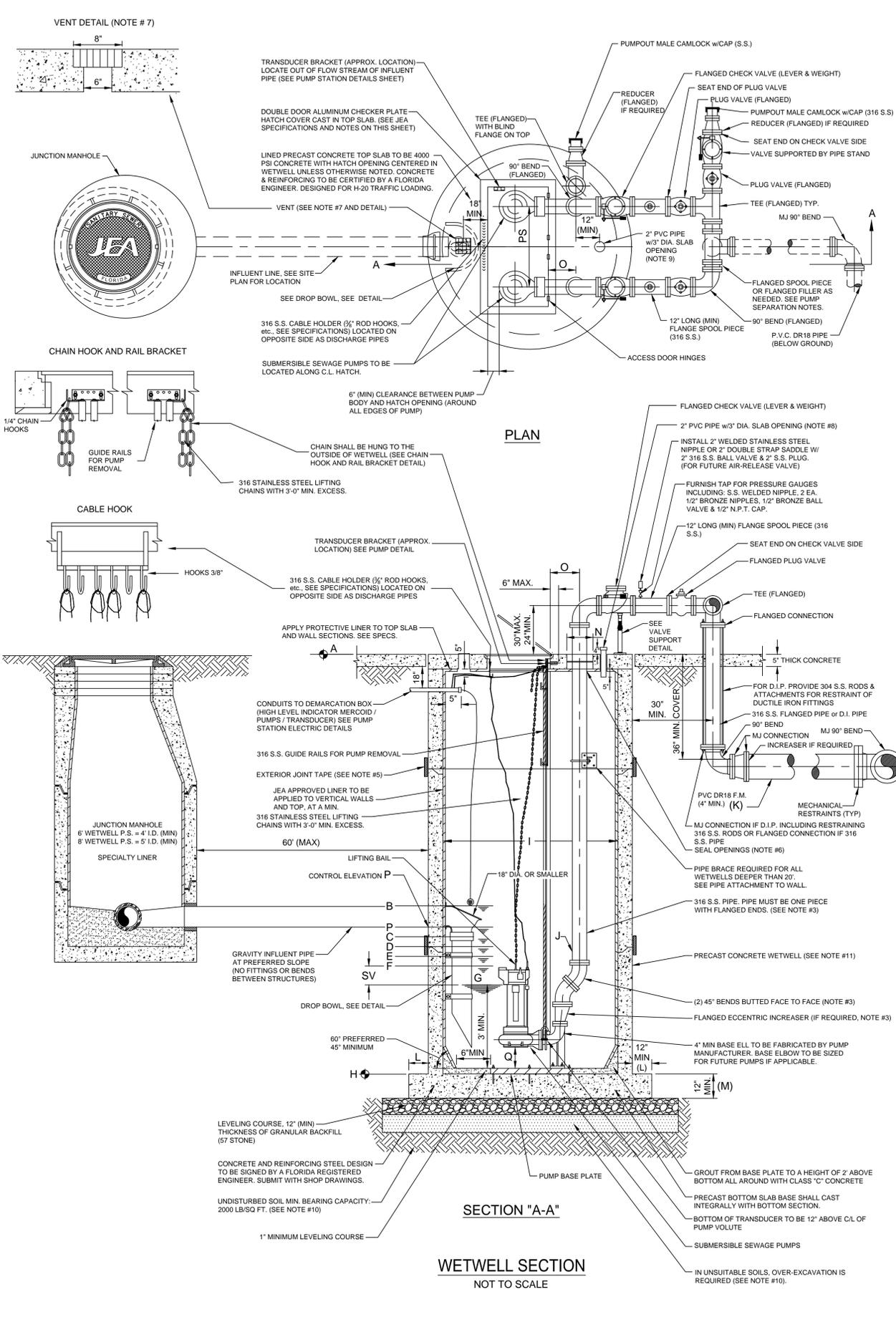
NO.	SHEETS	DATE	SCALE	REVISIONS	
				BY	DATE
1					
2					
3					
4					
5					
6					

DESIGNER:	DESIGN ENGINEER:
DRAWN BY:	FLORIDA REGISTRATION NO.:
DATE:	DATE:
CHECKED BY:	
DATE:	

JEA STANDARD
CLASS TWO PUMP STATION WITH PONY PUMP
FOR PEAK FLOWS BETWEEN 441 TO 1000 GPM
PLAN AND SECTION BY EXCEPTION ONLY



PROJ. NO.:
DATE:
SCALE:
SHEET NO.:
DRAWING NO.:



PUMP STATION INFORMATION SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCOID LEVEL	ALARM ELEVATION	LEFT BLANK	LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION	WET WELL DIA.	DISCHARGE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE (SEE TABLE BELOW)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
R + 1.0	P + 0.5	P - 0.5		P - 1.0	P - 1.5	F - SV	G - 3'												

ALL PUMPS			
PUMP MANUFACTURER	WIL/EMU	FLYGT	HYDROMATIC
MODEL			
IMPELLER			
PUMP DISCHARGE			
MOTOR (RPM)			
HORSEPOWER (HP)			
PHASE/VOLT/AMPS (NOTE #3)			
AIC (SEE NOTE #4)			
DESIGN POINT (GPM) @ TDH (FT)			
RUNOUT POINT (GPM) @ TDH (FT)			
EMERGENCY MAIN			
NORMAL SERVICE MAIN			
CB #1 TO PUMP NO. 1			
CB #2 TO PUMP NO. 2			
CONTROL PANEL MCB			
CONTROL PANEL ECB			
GENERATOR RECEPTACLE			
STARTER (SIZE & TYPE)			
ELECTRIC SERVICE (TYPE & SIZE)			

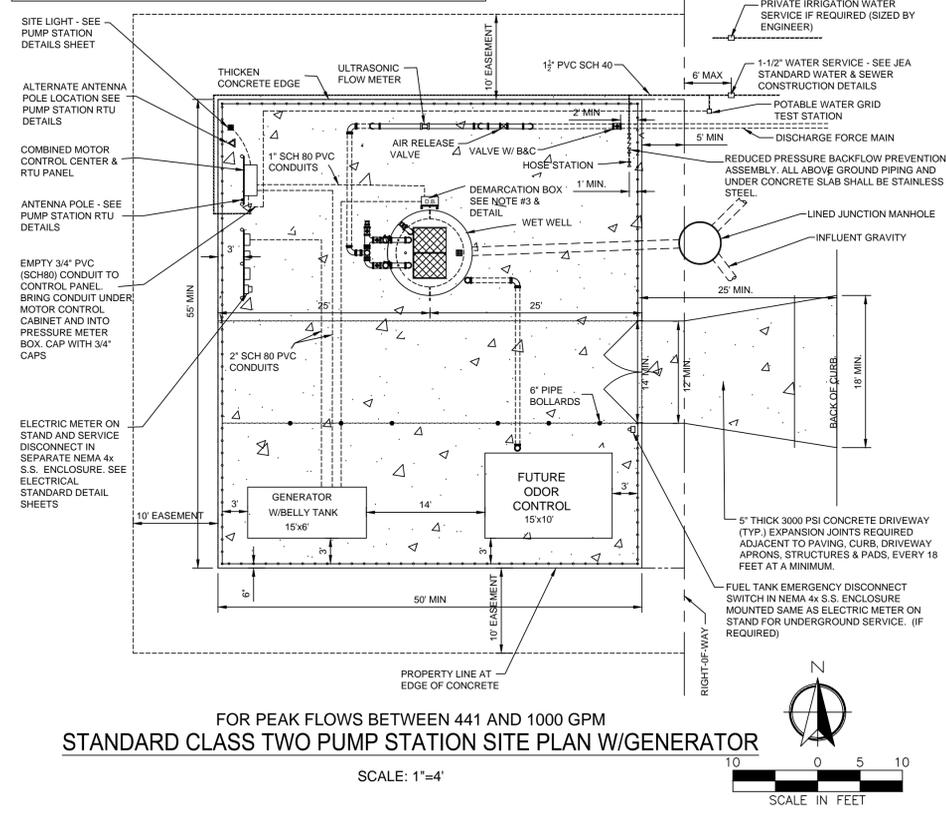
DISCHARGE PIPE DATA (WITHIN WET WELL)				
PIPE SIZE	PIPE HOLE DIA.	PUMP SEPARATION	MIN PUMP-OUT SIZE	HATCH SIZE (MIN.)
(J)	(N)	(PS)	(PO)	
4"	10"	26"	4"	36"x48"
6"	12"	32"	6"	36"x60"
FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	38"	8"	
10"	17"	44"	10"	
12"	20"	48"	12"	
14" & LARGER			14" & LARGER	

WET WELL DIMENSIONS		
WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
8'-0"	0'-9"	0'-10"
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

- PUMP STATION INFORMATION NOTES:**
- "SV" = STORAGE VOLUME PER CYCLE DESIGN AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME, MINIMUM STORAGE DEPTH SHALL BE 24".
 - IF PUMP MANUFACTURER REQUIRES A GREATER SEPARATION, THAT SEPARATION SHALL BE USED WITH THE ADDITION OF FLANGED FILERS 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.
 - AMPERE INTERRUPTING CAPACITY (AIC); CONTACT ELECTRICAL UTILITY FOR THIS DATA.
 - A GENERATOR RECEPTACLE SHALL BE PROVIDED.

- GENERAL NOTES:**
- ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
 - PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
 - PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, (SCHEDULE 10, ONE PIECE CONSTRUCTION), FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
 - FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
 - ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
 - THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED W/ EUCLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OTHER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
 - PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 1/2" WIDE x 1/2" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
 - PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM. SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
 - 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).
 - PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
 - SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCTION DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

- 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.
 - WETWELL SIZE: PUMP STATION 8'-0" I.D. MIN., 27' DEEP MAX.
 - MINIMUM FLOW RATE: 500 GPM EACH PUMP
 - MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP., 3 PHASE, 4 WIRE
 - MINIMUM CONCRETE PAD SIZE: 50'x55'
 - MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.
 - 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.
 - THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION. THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
 - FLOW METER: ULTRASONIC FLOW METER CONFIGURATION SHALL BE DESIGNED BY ENGINEER.



FOR PEAK FLOWS BETWEEN 441 AND 1000 GPM
STANDARD CLASS TWO PUMP STATION SITE PLAN W/GENERATOR
SCALE: 1"=4'

SITE SPECIFIC

REVISIONS		NO.	BY	DATE

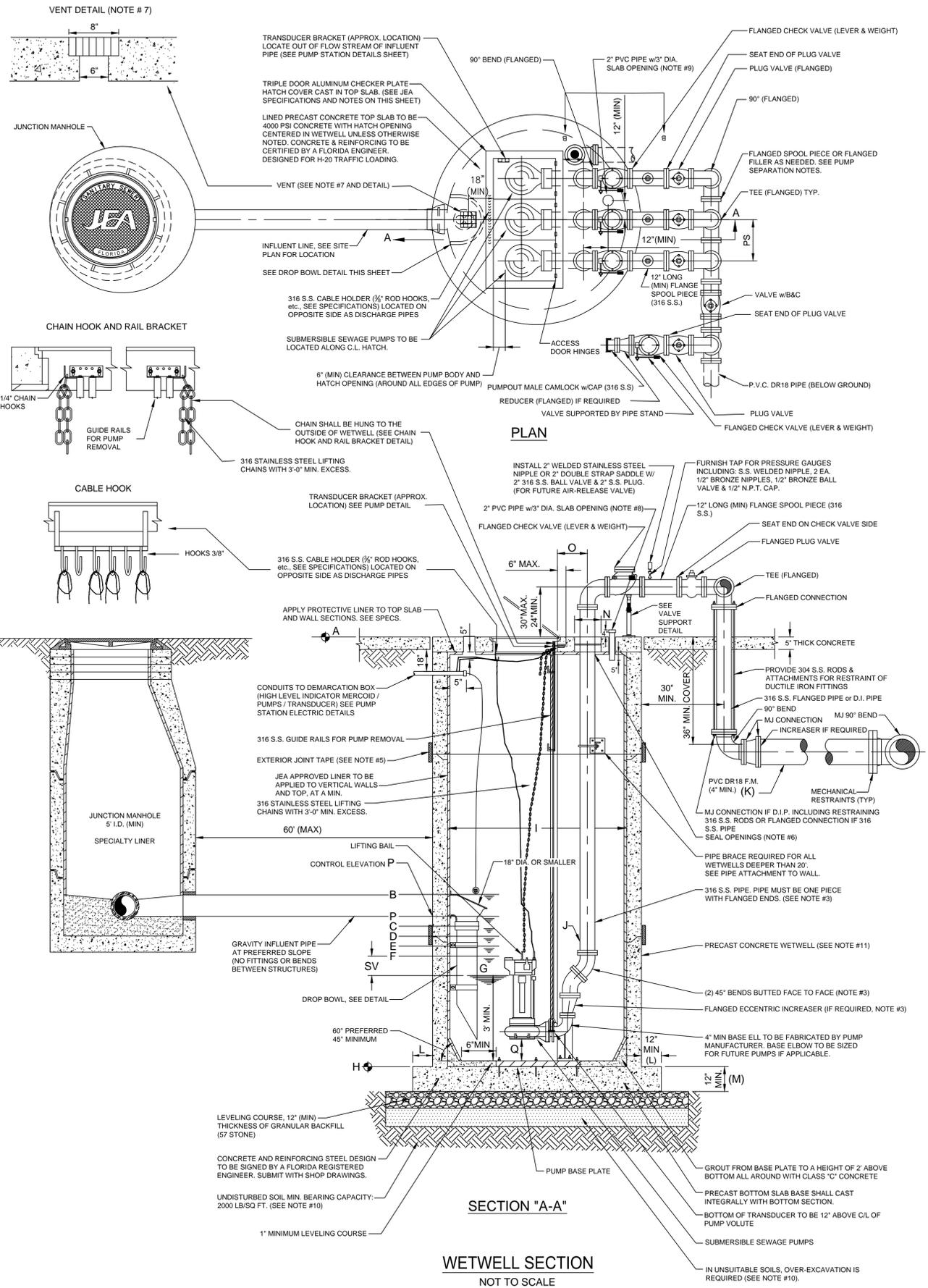
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DRAWN BY:	
CHECKED BY:	
DATE:	
DATE:	
FLORIDA REGISTRATION NO.:	

PROJ. NO.:	
DATE:	
SCALE:	

NO. SHEETS	
SHEET NO.	
DRAWING NO.	



JEA STANDARD CLASS TWO PUMP STATION WITH GENERATOR FOR PEAK FLOWS BETWEEN 441 AND 1000 GPM PLAN AND SECTION



PUMP STATION INFORMATION SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCID LEVEL	ALARM ELEVATION	2nd LAG PUMP ON ELEVATION	1st LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION (NOTE 1)	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5	P - 0.5	P - 1.0	P - 1.5	P - 2.0	F - SV	G - 3'											

ALL PUMPS

PUMP MANUFACTURER	WILCO/EMU	FLYGT	HYDROMATIC	KSB
MODEL				
IMPELLER				
PUMP DISCHARGE				
MOTOR (RPM)				
HORSEPOWER (HP)				
PHASE/VOLTS/AMPS (NOTE #3)				
AIC (SEE NOTE #4)				
DESIGN POINT (GPM) @ TDH (FT)				
RUNOUT POINT (GPM) @ TDH (FT)				
EMERGENCY MAIN				
NORMAL SERVICE MAIN				
CB #1 TO PUMP NO. 1				
CB #2 TO PUMP NO. 2				
CONTROL PANEL MCB				
CONTROL PANEL ECB				
GENERATOR RECEPTACLE				
STARTER (SIZE & TYPE)				
ELECTRIC SERVICE (TYPE & SIZE)				

DISCHARGE PIPE DATA (WITHIN WET WELL)

PIPE SIZE (J)	PIPE HOLE DIA. (N)	PUMP SEPARATION (PS)	MIN PUMPOUT SIZE (PO)	HATCH SIZE (MIN.)
4"	10"	26"	4"	---
6"	12"	32"	6"	---
FREE STANDING PUMPOUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER			14" & LARGER	---

WET WELL DIMENSIONS

WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

MCC PANEL

THE COMBINED MOTOR CONTROL AND RTV PANEL SHALL BE AS NOTED BELOW. CONTRACTOR SHALL SUBMIT APPLICABLE SHOP DRAWING PACKAGE. SEE JEA.COM FOR DETAILS.

- FIXED SPEED PANEL: 240/277 VOLT, 3 PHASE, OPEN DELTA, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- FIXED SPEED PANEL: 480 VOLT, 3 PHASE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- 1P-3P VFD PANEL: 480/277 VOLT, 3 PHASE, WYE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- 3P VFD PANEL: 480/277 VOLT, 3 PHASE, WYE, REDUCED VOLTAGE MOTOR STARTING, 10 STARTS PER HOUR

- PUMP STATION INFORMATION NOTES:**
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 - ALL PUMP MOTORS SHALL BE 3 PHASE.
 - AMPERE INTERRUPTING CAPACITY (AIC); CONTACT ELECTRICAL UTILITY FOR THIS DATA.
 - A GENERATOR RECEPTACLE TO BE INSTALLED REGARDLESS IF GENERATOR IS PRESET UP TO 400 AMPS.

- GENERAL NOTES:**
- ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
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 - ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 1/2" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
 - THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED W/ EUCOLASTIC BY EUCLID CITEN CO. OR APPROVED EQUAL SEAL. ALL OTHER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
 - PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 1/2" WIDE x 3/8" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
 - PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
 - 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 M.L., 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).
 - PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD. ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWINGS SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
 - SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCTION DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

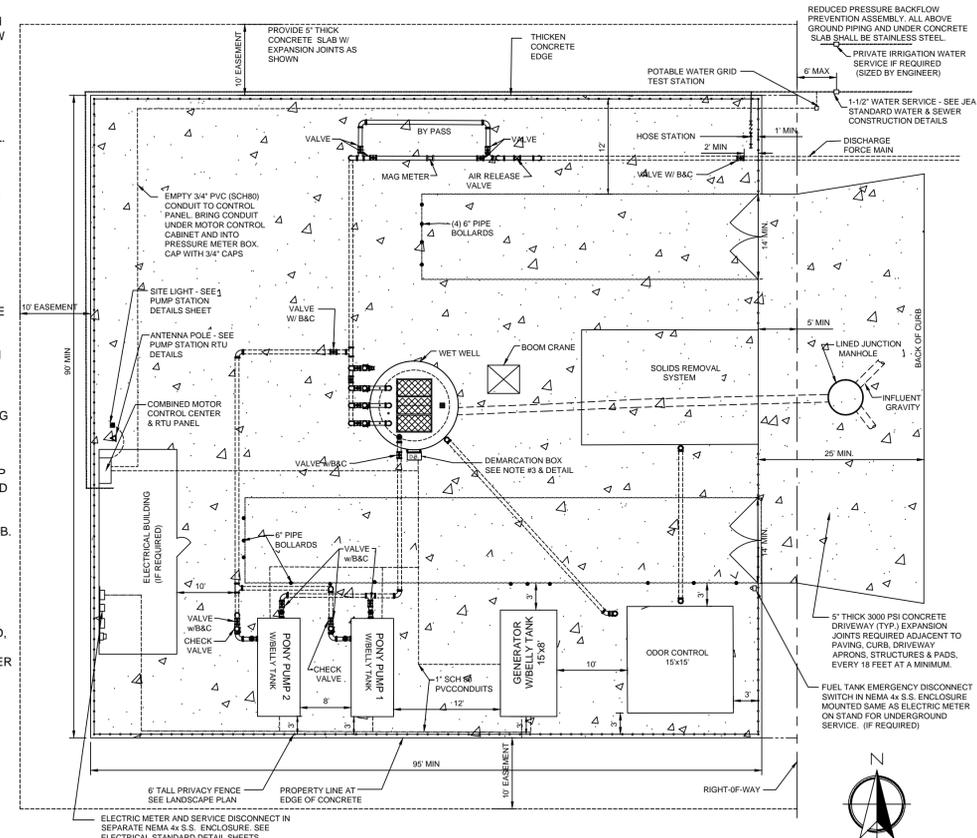
- CONSTRUCTION NOTES:**
- SLOPE CONCRETE TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
 - CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
 - DEMARICATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WETWELL. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WETWELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WETWELL.
 - SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
 - CONTRACTOR MUST KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.

PONY PUMP

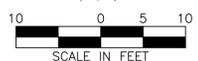
MANUFACTURE	
MODEL	
FLOW GPM @ TDH	
RPM	
NPSHR	
ENGINE H.P.	
SUCTION PIPE SIZE	
DISCHARGE PIPE SIZE	

GENERATOR

MANUFACTURE	
MODEL	
KW	



FOR PEAK FLOWS BETWEEN 1001 AND 2000 GPM
CLASS THREE PUMP STATION W/ SOLIDS REMOVAL SITE PLAN
NOT TO SCALE



SITE SPECIFIC

NO. SHEETS: 6
SHEET NO.: 4
DRAWING NO.: 2

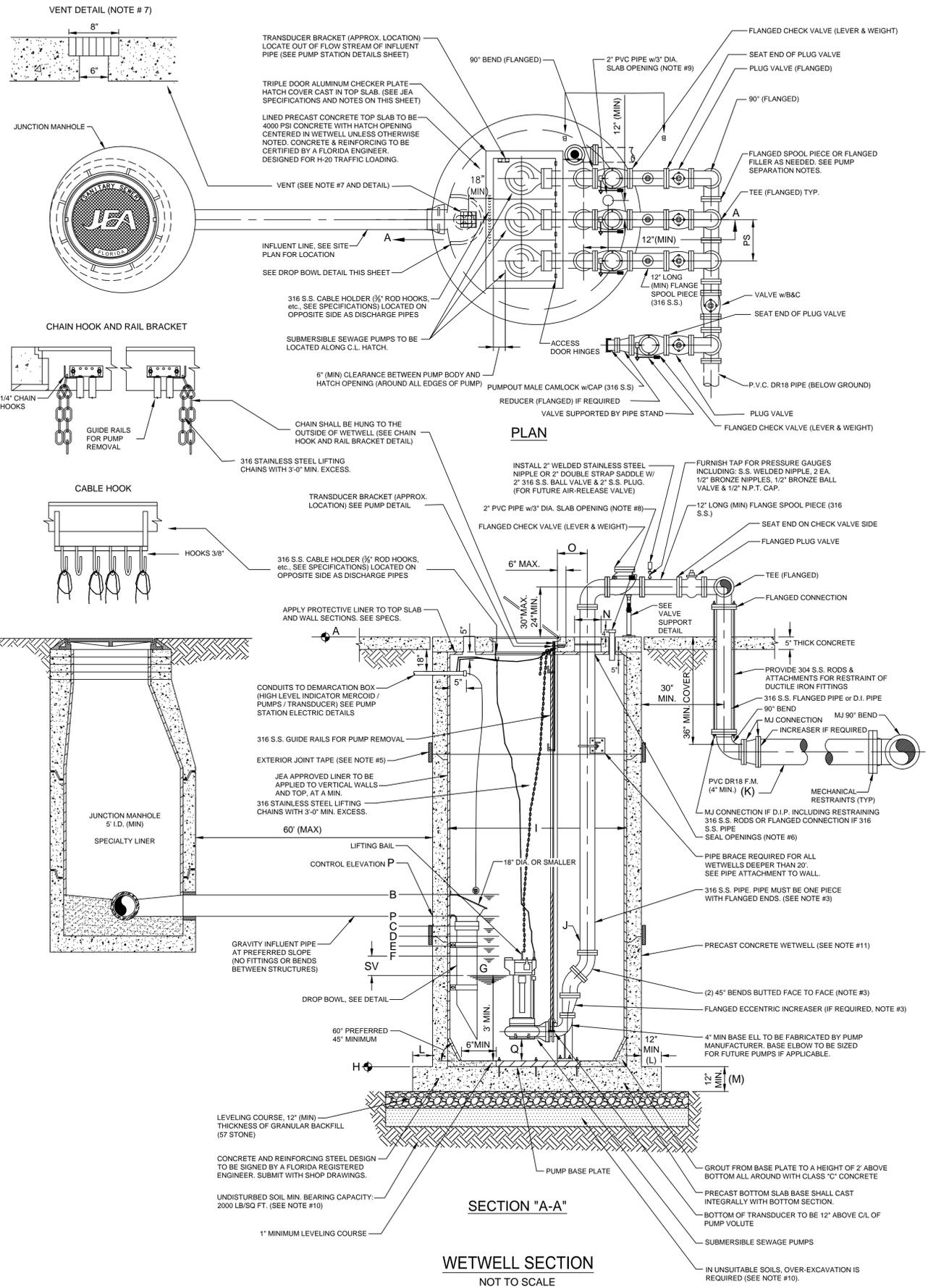
PROJ. NO.:
DATE:
SCALE:

DESIGNER: JEA
DRAWN BY: JEA
CHECKED BY: JEA
DATE:

DESIGN ENGINEER: JEA
FLORIDA REGISTRATION NO.:
DATE:

JEA Building Community

JEA STANDARD CLASS THREE PUMP STATION FOR PEAK FLOWS BETWEEN 1001-2000 GPM PLAN AND SECTION



PUMP STATION INFORMATION
SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCID LEVEL	ALARM ELEVATION	2nd LAG PUMP ON ELEVATION	1st LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION (NOTE 1)	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R+1.0	P+0.5	P-0.5	P-1.0	P-1.5	P-2.0	F-SV	G-3											

ALL PUMPS

PUMP MANUFACTURER	WILCO/EMU	FLYGT	HYDROMATIC	KSB
MODEL				
IMPELLER				
PUMP DISCHARGE				
MOTOR (RPM)				
HORSEPOWER (HP)				
PHASE/VOLT/AMPS (NOTE #3)				
AIC (SEE NOTE #4)				
DESIGN POINT (GPM) @ TDH (FT)				
RUNOUT POINT (GPM) @ TDH (FT)				
EMERGENCY MAIN				
NORMAL SERVICE MAIN				
CB #1 TO PUMP NO. 1				
CB #2 TO PUMP NO. 2				
CONTROL PANEL MCB				
CONTROL PANEL ECB				
GENERATOR RECEPTACLE				
STARTER (SIZE & TYPE)				
ELECTRIC SERVICE (TYPE & SIZE)				

DISCHARGE PIPE DATA (WITHIN WET WELL)

PIPE SIZE (J)	PIPE HOLE DIA. (N)	PUMP SEPARATION (PS)	MIN PUMPOUT SIZE (PO)	HATCH SIZE (MIN.)
4"	10"	26"	4"	---
6"	12"	32"	6"	---
FREE STANDING PUMPOUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER				

WET WELL DIMENSIONS

WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

MCC PANEL

THE COMBINED MOTOR CONTROL AND RTV PANEL SHALL BE AS NOTED BELOW. CONTRACTOR SHALL SUBMIT APPLICABLE SHOP DRAWING PACKAGE. SEE JEA.COM FOR DETAILS.

- FIXED SPEED PANEL: 240/277 VOLT, 3 PHASE, OPEN DELTA, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- FIXED SPEED PANEL: 480 VOLT, 3 PHASE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- 1P-3P VFD PANEL: 480/277 VOLT, 3 PHASE, WYE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- 3P VFD PANEL: 480/277 VOLT, 3 PHASE, WYE, REDUCED VOLTAGE MOTOR STARTING, 10 STARTS PER HOUR

- PUMP STATION INFORMATION NOTES:**
- "SV" STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME. MINIMUM STORAGE DEPTH SHALL BE 24".
 - 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.
 - AMPERE INTERRUPTING CAPACITY (AIC); CONTACT ELECTRICAL UTILITY FOR THIS DATA.
 - A GENERATOR RECEPTACLE TO BE INSTALLED REGARDLESS IF GENERATOR IS PRESET UP TO 400 AMPS.

- GENERAL NOTES:**
- ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
 - PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
 - PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, (SCHEDULE 10, ONE PIECE CONSTRUCTION). FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
 - FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
 - ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 1/2" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
 - THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED W/ EUCLASTIC BY EUCLID CITEN CO. OR APPROVED EQUAL SEAL. ALL OTHER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
 - PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1/2" WIDE x 3/8" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
 - PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
 - 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).
 - PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD. ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWINGS SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
 - SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCTION DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

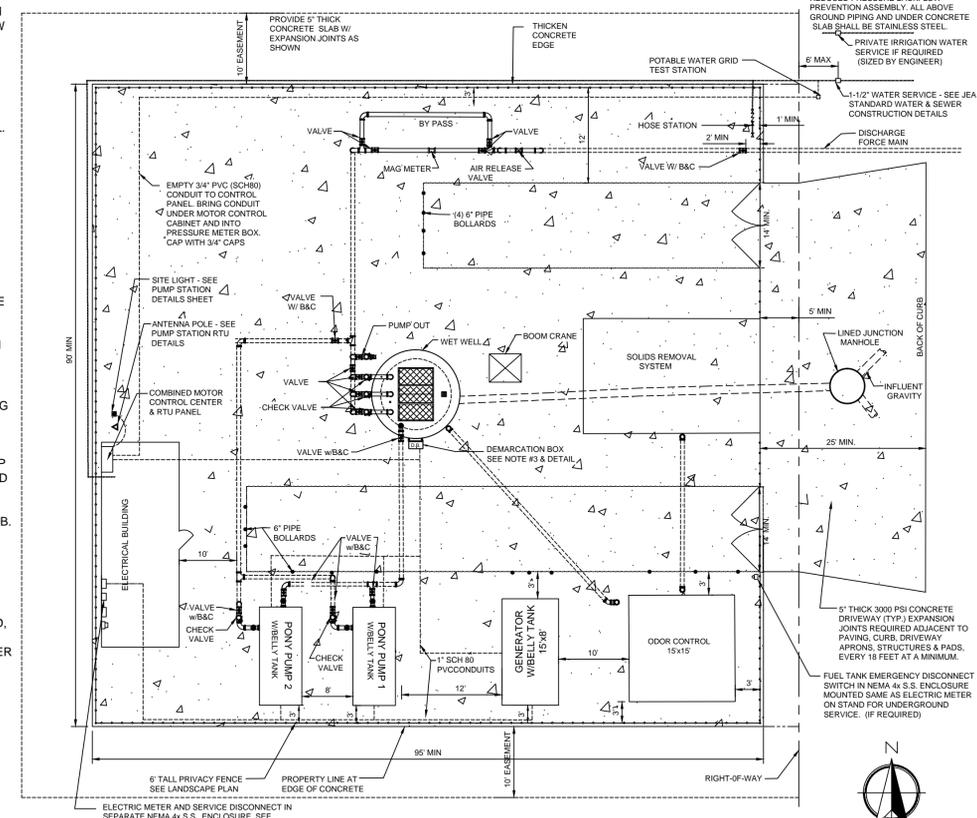
- CONSTRUCTION NOTES:**
- SLOPE CONCRETE TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
 - CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
 - DEMARICATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WETWELL. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WETWELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WETWELL.
 - SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
 - CONTRACTOR MUST KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.

PONY PUMP

MANUFACTURE	
MODEL	
FLOW GPM @ TDH	
RPM	
NPSHR	
ENGINE HP	
SUCTION PIPE SIZE	
DISCHARGE PIPE SIZE	

GENERATOR

MANUFACTURE	
MODEL	
KW	



FOR PEAK FLOWS GREATER THAN 2000 GPM
CLASS FOUR PUMP STATION W/ SOLIDS REMOVAL SITE PLAN
NOT TO SCALE



SITE SPECIFIC

NO. SHEETS	PROJ. NO.	DATE	SCALE
SHEET NO.			
DRAWING NO.			

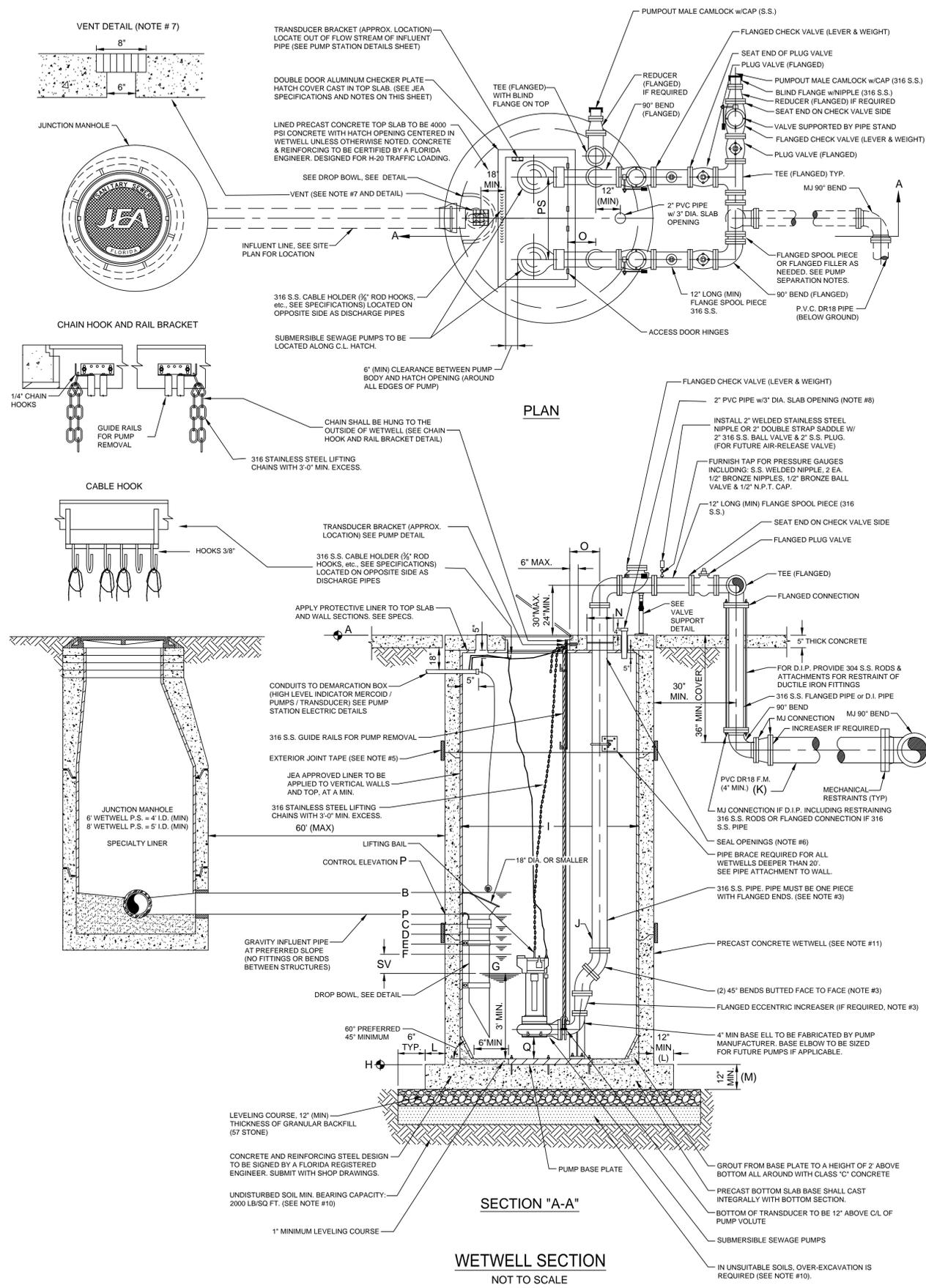
DESIGNER: JEA Building Community

DESIGN ENGINEER: JEA Building Community

FLORIDA REGISTRATION NO.:

CHECKED BY: JEA Building Community

DATE:



PUMP STATION STREET ADDRESS	PUMP STATION INFORMATION SCHEDULE OF ELEVATIONS																		
	TOP ELEV (NOTE 9)	MERCID LEVEL	ALARM ELEVATION	LEFT BLANK	LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION (NOTE #1)	BOTTOM ELEVATION (NOTE #5)	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE (SEE TABLE BELOW)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5	P - 0.5		P - 1.0	P - 1.5	F - SV	G - 3'											

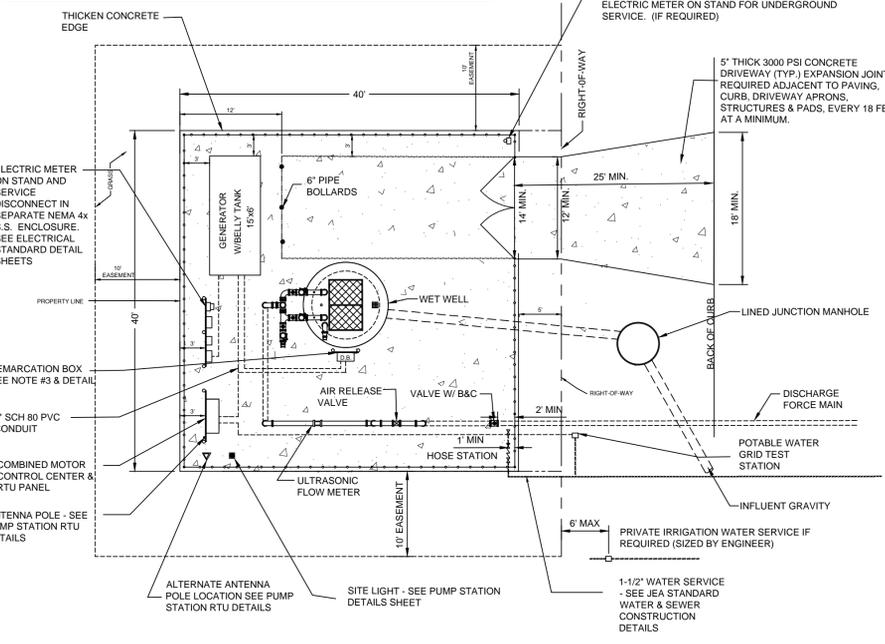
DISCHARGE PIPE DATA (WITHIN WET WELL)				
PIPE SIZE	PIPE HOLE DIA.	PUMP SEPARATION	MIN PUMP OUT SIZE	HATCH SIZE (MIN.)
(J)	(N)	(PS)	(PO)	
4"	10"	26"	4"	36"x48"
6"	12"	32"	6"	36"x60"
FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	
10"	17"	44"	10"	
12"	20"	48"	12"	
14" & LARGER			14" & LARGER	

WET WELL DIMENSIONS		
WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
8'-0"	0'-9"	0'-10"
1'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

- PUMP STATION INFORMATION NOTES:**
- "SV" = STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME, MINIMUM STORAGE DEPTH SHALL BE 24".
 - 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.
 - AMPERE INTERRUPTING CAPACITY (AIC) CONTACT THE ELECTRICAL UTILITY COMPANY FOR THIS DATA IF AVAILABLE.
 - A GENERATOR RECEPTACLE SHALL BE PROVIDED.

- GENERAL NOTES:**
- ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
 - PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
 - PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL (SCHEDULE 10, ONE PIECE CONSTRUCTION). FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
 - FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
 - ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
 - THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED W/ EUCOLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OTHER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
 - PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 1/2" WIDE x 1 1/2" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
 - PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM. SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
 - 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 M.L., 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).
 - PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS, THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
 - SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCTION DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

- 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.
 - WETWELL SIZE: PUMP STATION 8'-0" I.D. MIN., 27" DEEP MAX.
 - MINIMUM FORCE MAIN FLOW RATE: 4" DIAMETER @ 80 GPM ALL GREATER SIZES SHALL BE DESIGNED FOR FLOW VELOCITY BETWEEN 2FPS AND 5FPS
 - MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP., 3 PHASE, 4 WIRE
 - MINIMUM CONCRETE PAD SIZE: 40'x40'
 - MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.
 - 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 DRAWINGS 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 -80db RSSI. IF THE HEIGHT OF THE MINIMUM -80db 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.
 - THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION. THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
 - FLOW METER: ULTRASONIC FLOW METER CONFIGURATION SHALL BE DESIGNED BY ENGINEER.



FOR PEAK FLOWS BETWEEN 0 TO 440 GPM
STANDARD CLASS ONE PUMP STATION SITE PLAN W/GENERATOR
 SCALE: 1"=4'

PROJ. NO.:
 SHEET NO.:
 DRAWING NO.:

DESIGNER:
 DRAWN BY:
 DATE:
 CHECKED BY:
 DATE:

DESIGN ENGINEER:
 FLORIDA REGISTRATION NO.:

NO. SHEETS:
 SHEET NO.:
 DRAWING NO.:

SCALE IN FEET

SITE SPECIFIC



JEA STANDARD CLASS ONE PUMP STATION W/GENERATOR FOR PEAK FLOWS BETWEEN 0 TO 440 GPM PLAN AND SECTION