16

CONTRACT NO. C-E304 DWG. NO. HC-6

CONFIGUATION, LOCATION, CONNECTIONS AND "RECORD DRAWINGS" SUPPORT. SEE SPECIFICATIONS FOR TECHNICAL REQUIREMENTS.

AIR HAND	LING UNIT	AHU370-1	AHU370-2	
DESIGNATION		AHU372-1	AHU372-2	
DECION DACIC	MANUFACTURER	TRANE	TRANE	
DESIGN BASIS	MODEL	TWE031E130A	TWE031E130A	
DESIGN AI	RFLOW, CFM	650	825	
О. А	. CFM	130	100	
R. A	. CFM	550	725	
SYSTEM NO	MINAL TONS	1.5	2.0	
SYSTEM TOTAL	CAPACITY, MBH	18.8	25.2	
SYSTEM SENSIBL	E CAPACITY, MBH	13.5	17.5	
EVAPORATOR	EDB/EWB, °F	80.4/68.0	78.7/65.2	
EVAPORATOR	R LDB/LWB, °F	57.3/56.2	57.0/55.8	
EXTERNAL STATIC	PRESSURE, IN-WG	0.7	0.7	
FAN MC	TOR HP	1/2	1/2	
ELECTRIC HEAT	ER, NOMINAL KW	4.8	4.8	
V/	P/H	208/1/60	208/1/60	
unit minimun	CIRCUIT AMPS	27	27	
CONDEN	SING UNIT	CU370-1	CU370-2	
	NATION	CU370-1	CU370-2	
DESIG	MANUFACTURER	TRANE	TRANE	
DESIGN BASIS	MODEL	TTP018C100A	TTP024C100A	
REFRI	GERANT	R-22	R-22	
	EM ERR	13.0	13.0	
	RING AIR TEMP., °F	95	95	
	P/H	208/1/60	208/1/60	
	- MCA	11	14	
MOCP		15	20	
RFM	ARKS	_	_	

MARK	DESIGN BASIS		TYPE	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	FINISH	REMARKS
	MAKE	MODEL							
S-1	TITUS	TMS-AA	SUPPLY	125-225	24X24	8"ø	ALUMINUM	OFF-WHITE	В.
S-2	TITUS	TMS-AA	SUPPLY	0-125	12X12	6"ø	ALUMINUM	OFF-WHITE	В.
S-3		_			_	-	_	_	
R-1	TITUS	350FL	RETURN	0-550	24X12	22X10	ALUMINUM	OFF-WHITE	А. В.
R-2	TITUS	350FL	RETURN	550-950	24X24	22X22	ALUMINUM	OFF-WHITE	А. В.
E-1	TITUS	350FL	EXHAUST	0-200	12X12	10X10	ALUMINUM	OFF-WHITE	В.

- A. PROVIDE ROUND TO SQUARE TRANSITION AS REQUIRED TO CONNECT TO BRANCH DUCT.
- B. PROVIDE OPPOSED BLADE DAMPER AT DEVICE NECK WHERE CEILING CAVITY IS NOT ACCESSIBLE. C. PROVIDE OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER. ALSO PROVIDE POLE OPERATOR HANDLE FOR REAR BLADE ADJUSTMENT.

<u>AUTOMATIC AIR FILTRATION EQUIPMENT - ROLL FILTER:</u>

EQUIPMENT SHALL BE BLC AUTO-LINE MODEL ARH-10-H-160, HORIZONTAL AUTOROLL FILTER. UNIT SHALL BE CONSTRUCTED WITH TYPE 304 STAINLESS STEEL WITH ENCLOSURE PANELS AND MOUNTING FLANGES FOR DUCT CONNECTIONS. UNIT SHALL EQUIPPED WITH FACTORY INSTALLED CONTROL SYSTEMS WITH DIFFERENTIAL PRESSURE SWITCH, 1/8 HP 120V/10/60 MOTOR AND TYPE SRM SYNTHETIC FILTER MEDIA. UNIT SHALL BE SUITABLE FOR OUTDOOR USE. DIFFERENTIAL PRESSURE SWITCH SHALL BE ADJUSTABLE IN FIELD. UNIT SHALL BE COMPLETELY FACTORY PREWIRED, REQUIRING ONLY A SINGLE POINT POWER CONNECTION IN FIELD.

				FAN SCHEDULE									
MARK	DESIGN BASIS		FAN		VOLUME	TSP			El	_ECTRICAL DA	CTRICAL DATA		REMARKS
WAIN	MANUFACTURER	MODEL	TYPE	SERVICE	(CFM)) (IN-WG)	FRPM	DRIVE	HP	V/P/H	RPM	SONES	INLIMIANNS
EF370-1 THRU 4	GREENHECK	SBCE-3H72-50	SIDEWALL CAST ALUMINUM FAN	PUMP STATION G-370	39,600	0.375	517	BELT	5	460/3/60	1725	47	E, F, H
EF372-1 THRU 5	GREENHECK	SBCE-3H72-75	SIDEWALL CAST ALUMINUM FAN	PUMP STATION G-372	45,600	0.375	555	BELT	7 1/2	460/3/60	1725	54	E, F, H
EF370-5	GREENHECK	SBCE-3L24	SIDEWALL CAST ALUMINUM FAN	PIPE GALLERY PUMP STATION G-370	4,835	0.375	1026	BELT	3/4	460/3/60	1725	23	E, G
EF372-6	GREENHECK	SBCE-3L24	SIDEWALL CAST ALUMINUM FAN	PIPE GALLERY PUMP STATION G-372	4,950	0.375	1037	BELT	3/4	460/3/60	1725	24	E, G
EF370-6	GREENHECK	SQ-85-D	INLINE FAN	SHOWER/TOILET ROOM/JAN CLOSET	230	0.5	1519	DIRECT	1/12	115/1/60	1519	15	A, B, C.
EF372-7	GREENHECK	SQ-85-D	INLINE FAN	SHOWER/TOILET ROOM/JAN CLOSET	230	0.5	1519	DIRECT	1/12	115/1/60	1519	15	A, B, C.
EF370-7	GREENHECK	SP-7	CEILING EXHAUST FAN	JANITOR'S ROOM	65	0.375	950	DIRECT	137 WATTS	115/1/60	950	3	А, В, С.
EF372-8	GREENHECK	SP-7	CEILING EXHAUST FAN	JANITOR'S ROOM	65	0.375	950	DIRECT	137 WATTS	115/1/60	950	3	A, B, C.

SF372-1 THRU 5

- A. PROVIDE SPRING HANGING ISOLATORS AND BRACKETS.
- B. PROVIDE WALL CAP

NOTE: THE EQUIPMENT MANUFACTURERS NAMED HERE ARE USED AS A BASIS OF

DESIGN TO SHOW GENERAL SIZE,

Gee & Jenson Project No.: 50-001.00

GREENHECK

GREENHECK

- C. PROVIDE SPEED CONTROLLER MOUNTED ON SIDE OF FAN CASE
- OR IN THE CEILING NEXT TO CEILING EXHAUST FAN. D. PROVIDE ASSEMBLED WALL COLLAR AND OSHA APPROVED MOTOR SIDE GUARD.

SBCS-3H72-100

SBCS-3H72-100

E. PROVIDE GREENHECK VCD-34-PB-74X74 MOTORIZED DAMPER. 460/1/60. H. PROVIDE MANUFACTURER'S SUPPLIED CLOSURE ANGLE.

48,000

0.75

0.75

658

687

BELT

BELT

1725

1725

75

460/3/60

D, F, H

D, F, H

- F. PROVIDE SHORT WALL HOUSING, FLUSH EXTERIOR WITH OSHA APPROVED
- MOTOR SIDE GUARD AND ALUMINUM DAMPER GUARD

SIDEWALL CAST ALUMINUM FAN

SIDEWALL CAST ALUMINUM FAN

- G. PROVIDE SHORT WALL HOUSING, FLUSH INTERIOR WITH OSHA APPROVED
- MOTOR SIDE GUARD AND ALUMINUM DAMPER GUARD

PUMP STATIOMN G-370

PUMP STATIOMN G-372

VENTILATION SEQUENCE OF OPERATION 1. SF370-1 THRU SF370-2 AND EF370-1 THRU EF370-4 SHALL OPERATE VIA A DEDICATED HAND-OFF-AUTO CONTROLLER. THE FANS SHALL OPERATE IN THE AUTO POSITION NORMALLY. THE HAND POSITION

SHALL BE FOR LOCAL MANUAL OPERATION. THE OFF POSITION SHALL BE FOR OPERATION OVERRIDE. 2. IF PUMP-1, PUMP-2 OR PUMP-3 STARTS, IN ANY COMBINATION THEN

3. IF GEN. #1 STARTS, SF370-2 SHALL START.

SF370-3 AND EF370-3 SHALL START.

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PUMP STATION G-370

4. IF GEN. #1 AND GEN. #2 STARTS, THEN SF370-1 AND SF370-2 SHALL

5. IF GEN. #1, GEN. #2 AND PUMP-1 THRU PUMP-3 START THEN SF370-1, SF370-2, SF370-4 AND EF370-3 SHALL START.

PUMP STATION G-372 VENTILATION SEQUENCE OF OPERATION

1. SF372-1 THRU SF372-5 AND EF372-1 THRU EF372-5 SHALL OPERATE VIA A DEDICATED HAND-OFF-AUTO CONTROLLER. THE FANS SHALL OPERATE IN THE AUTO POSITION NORMALLY. THE HAND POSITION SHALL BE FOR LOCAL MANUAL OPERATION. THE OFF POSITION SHALL BE FOR OPERATION OVERRIDE.

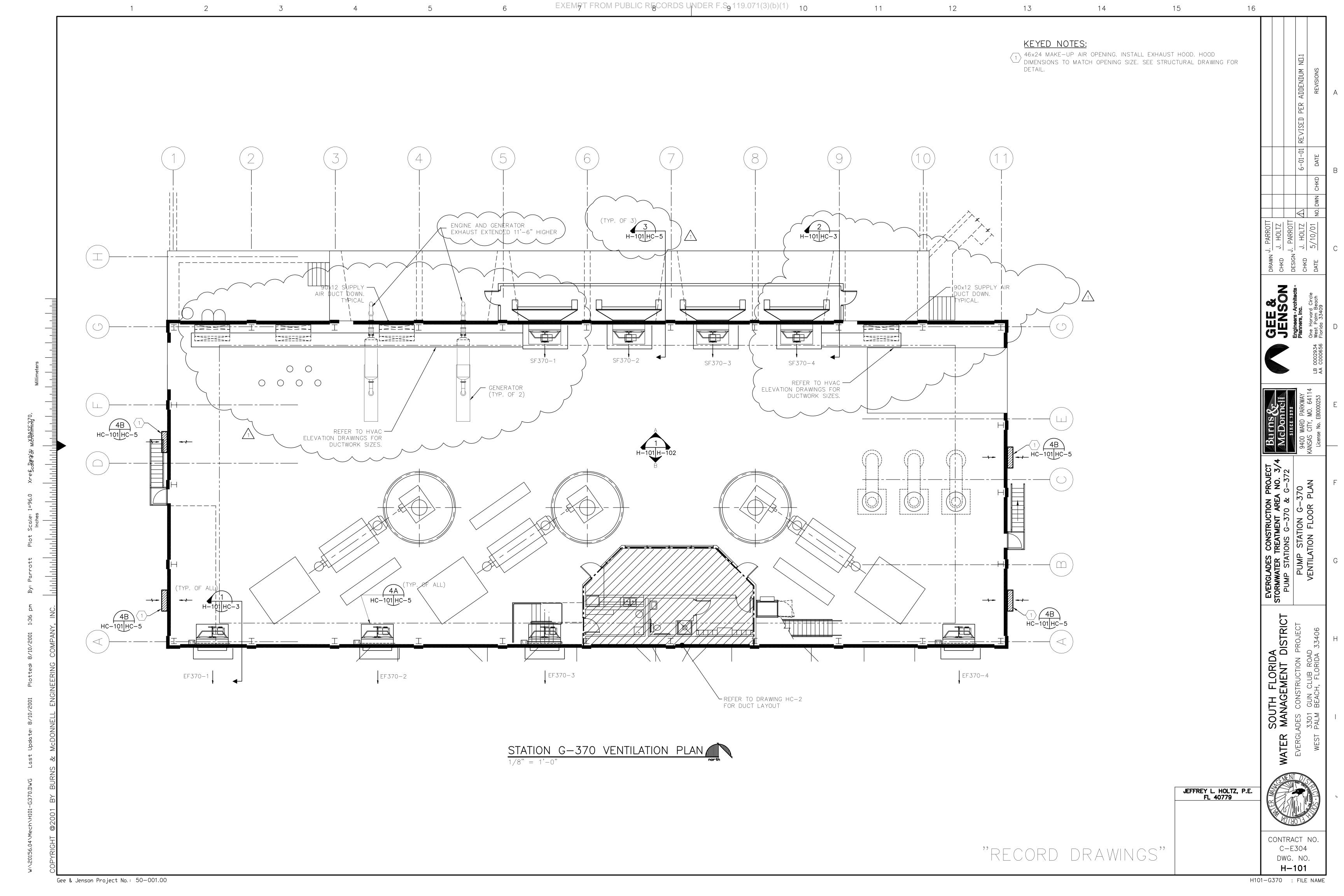
2. IF PUMP-1, THRU PUMP-4 START, IN ANY COMBINATION THEN SF372-4 AND EF372-4 SHALL START.

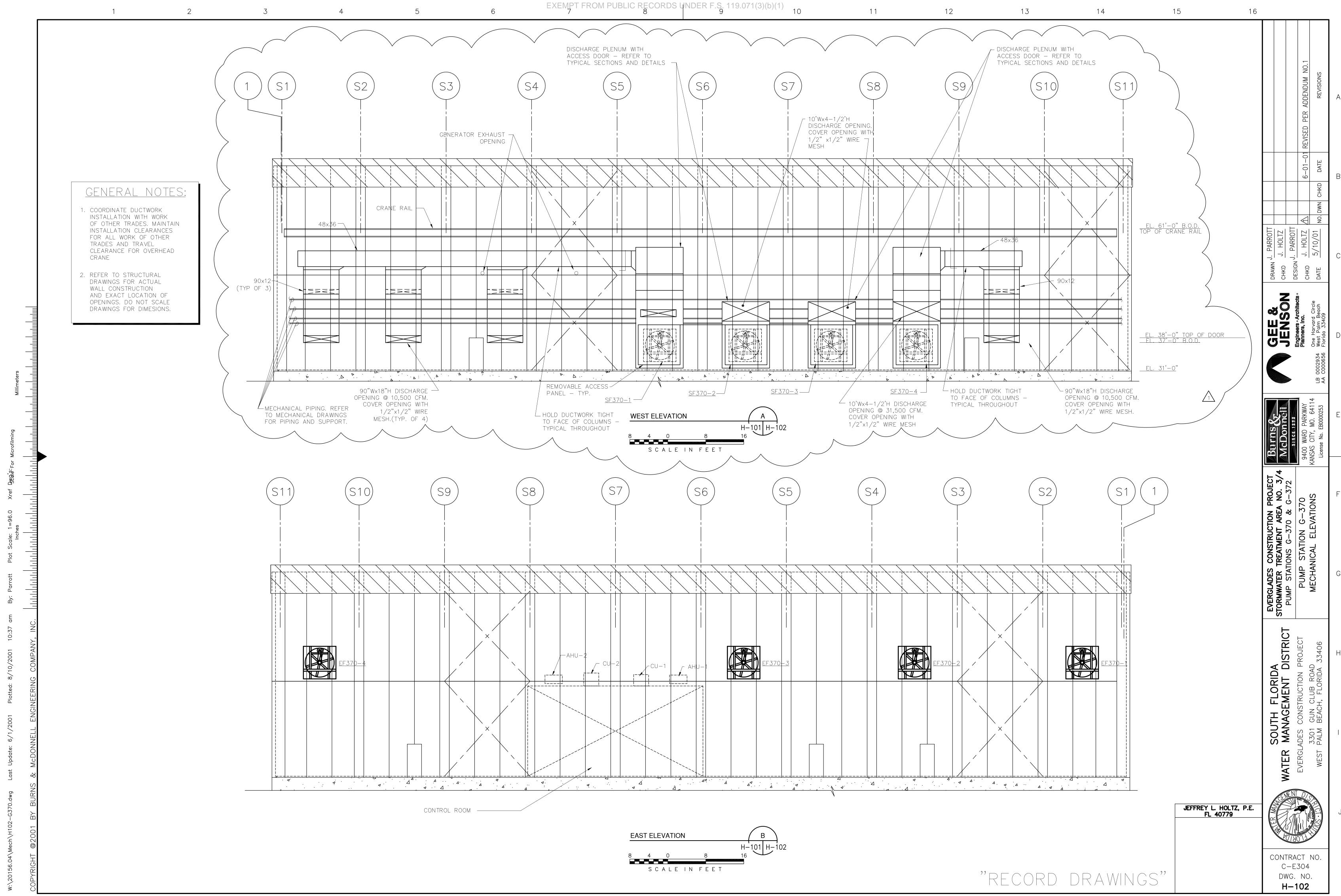
3. IF GEN. #1 STARTS, SF372-3 SHALL START.

4. IF GEN. #1 AND GEN. #2 START, THEN SF372-3 AND SF372-5 SHALL

JEFFREY L. HOLTZ, P.E. FL 40779

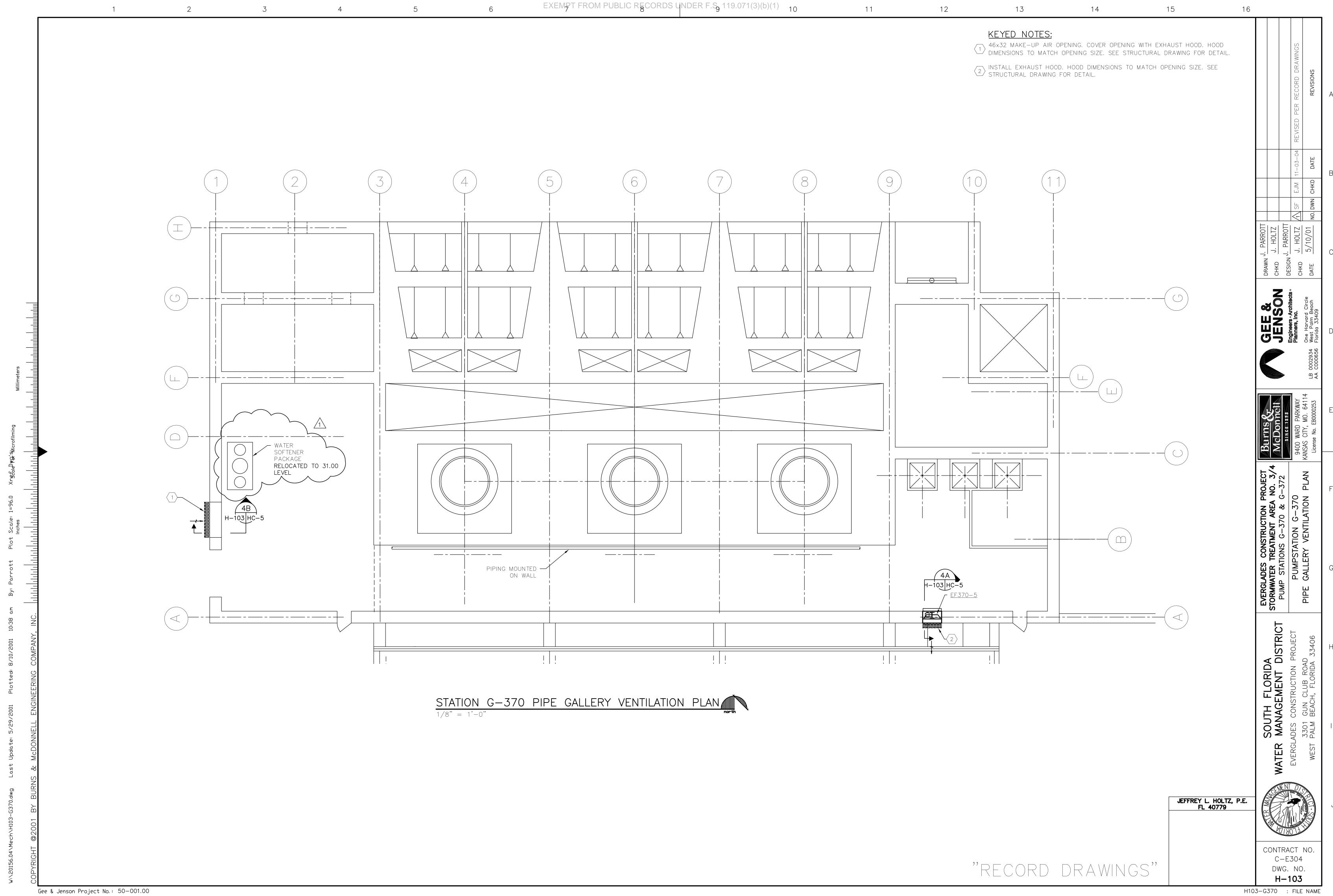
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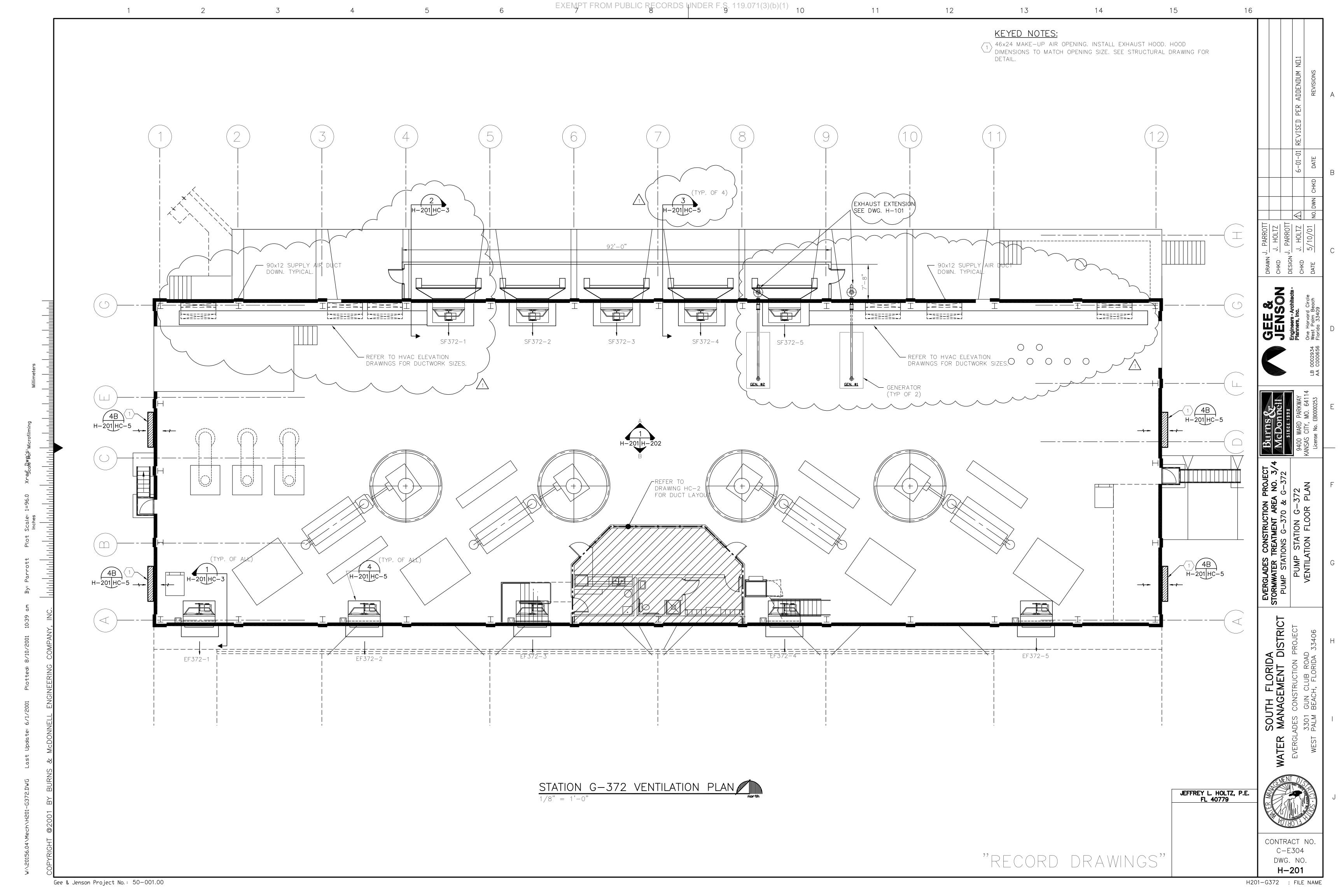


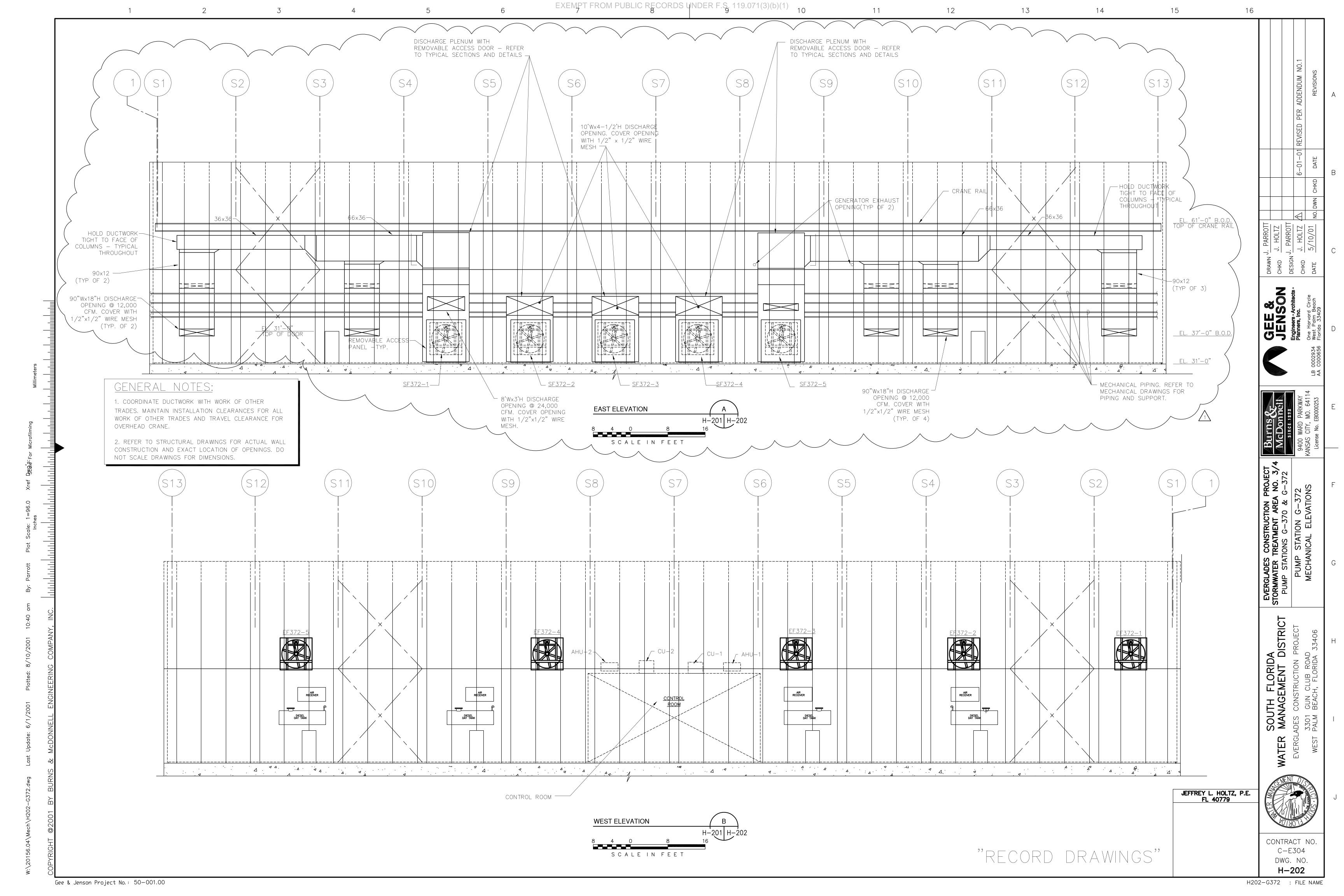


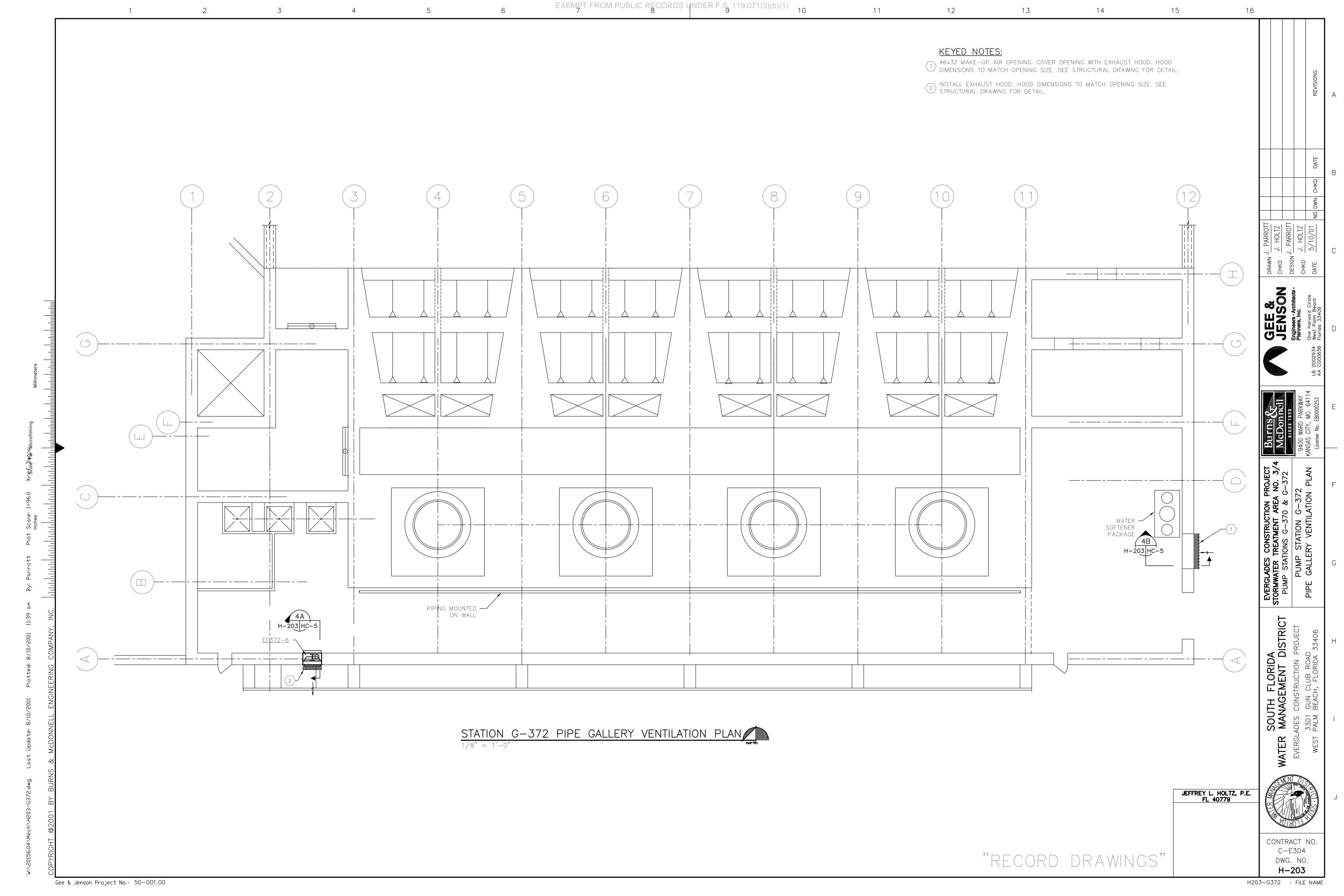
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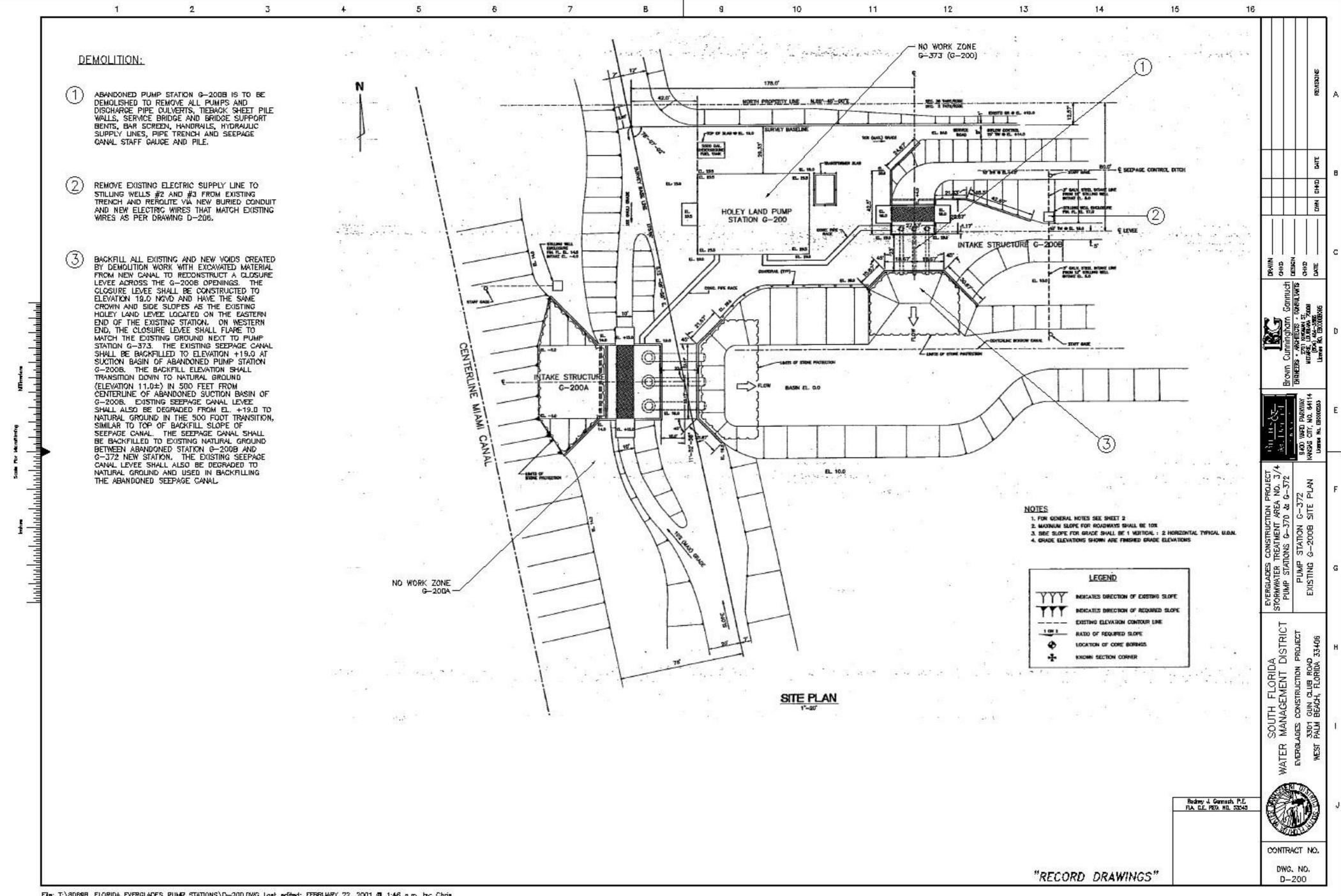
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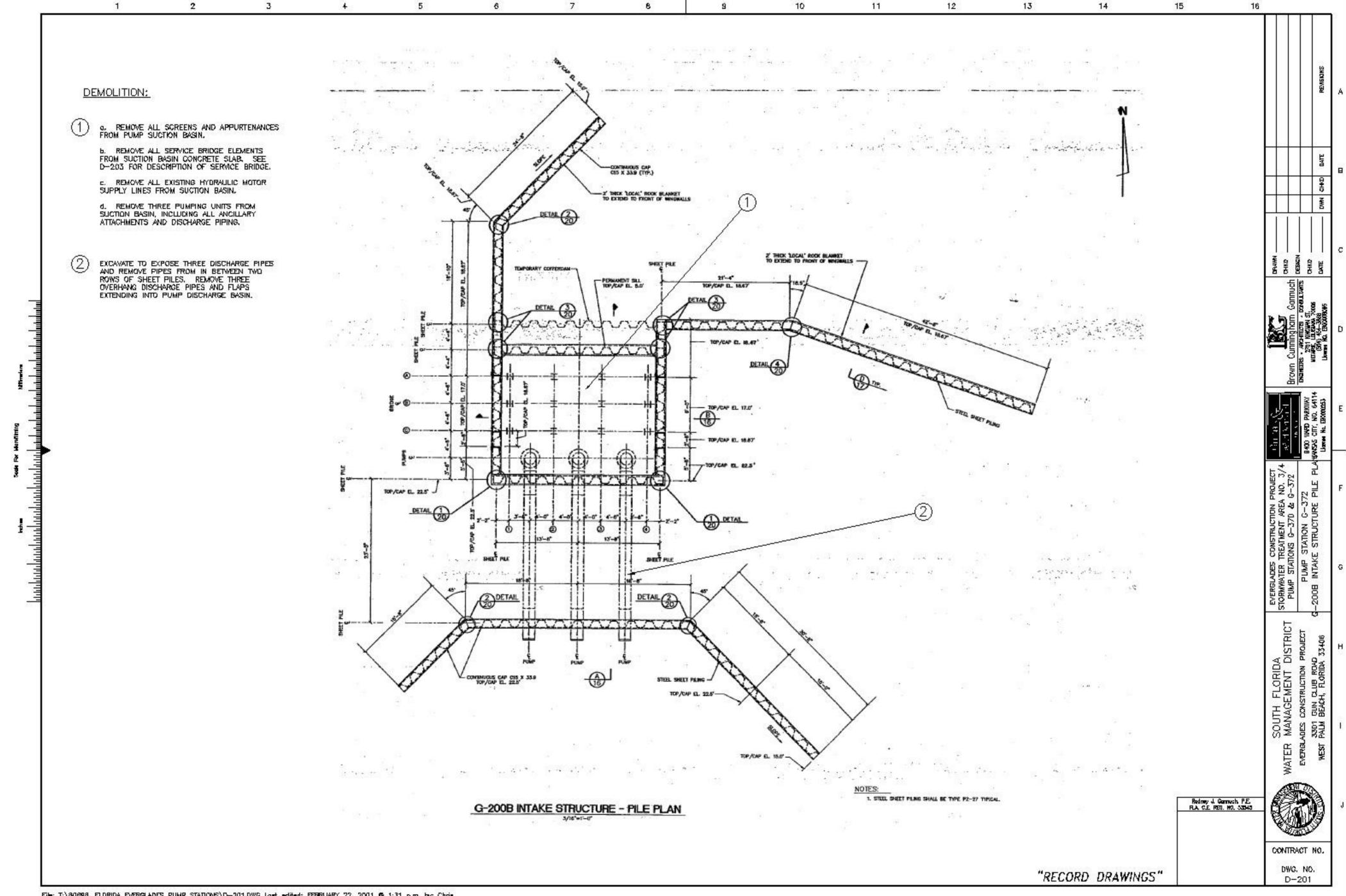


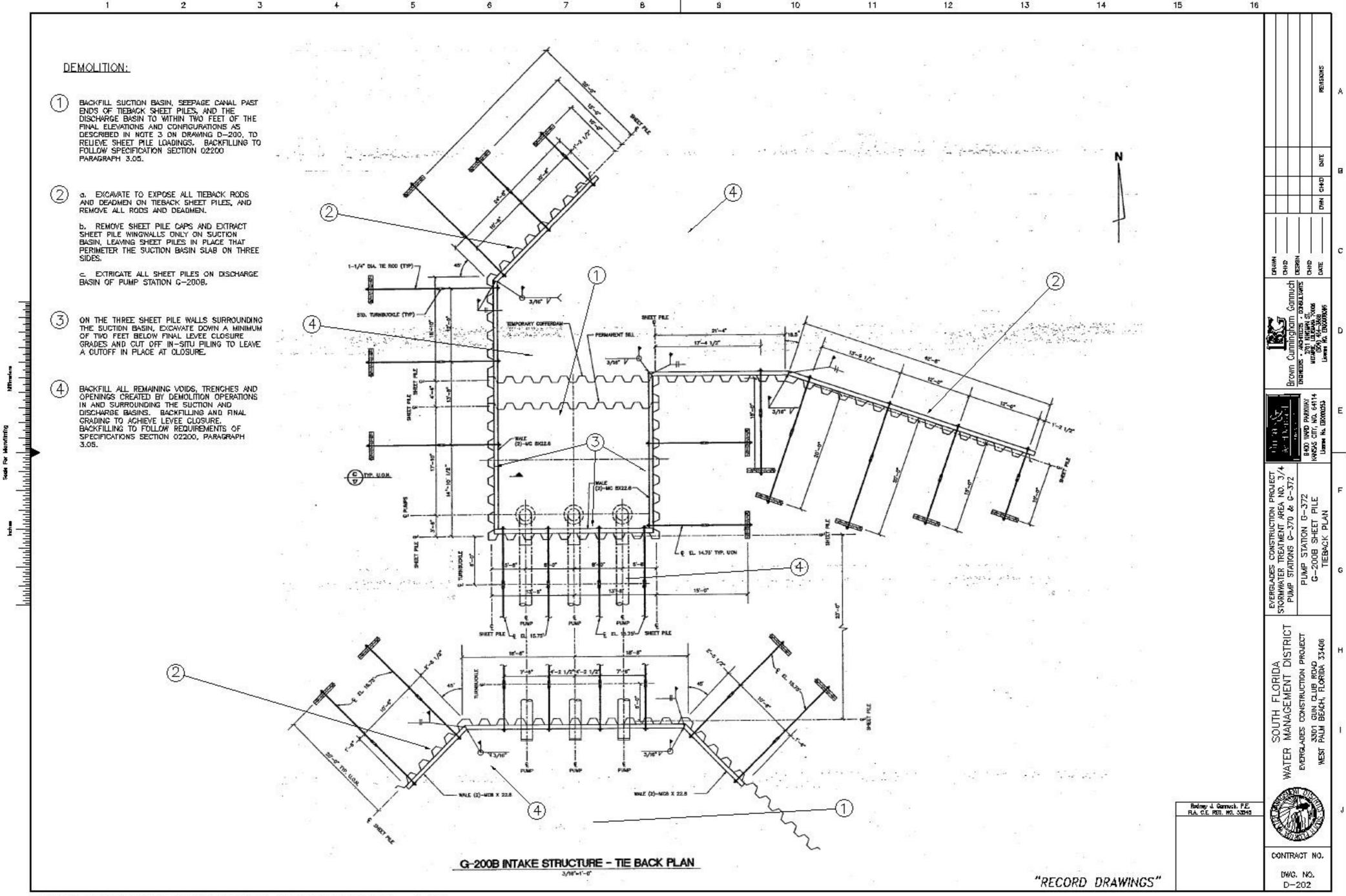


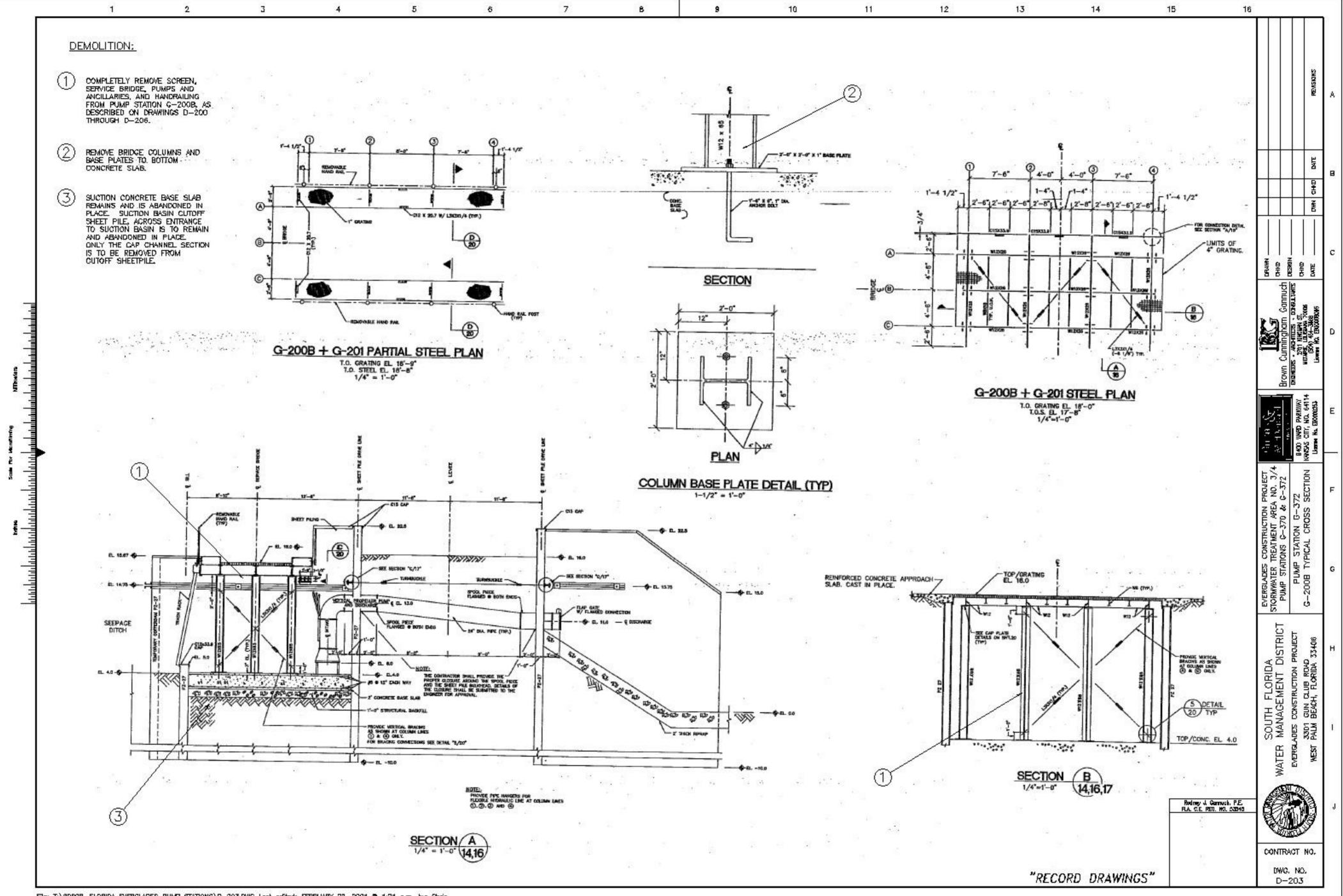


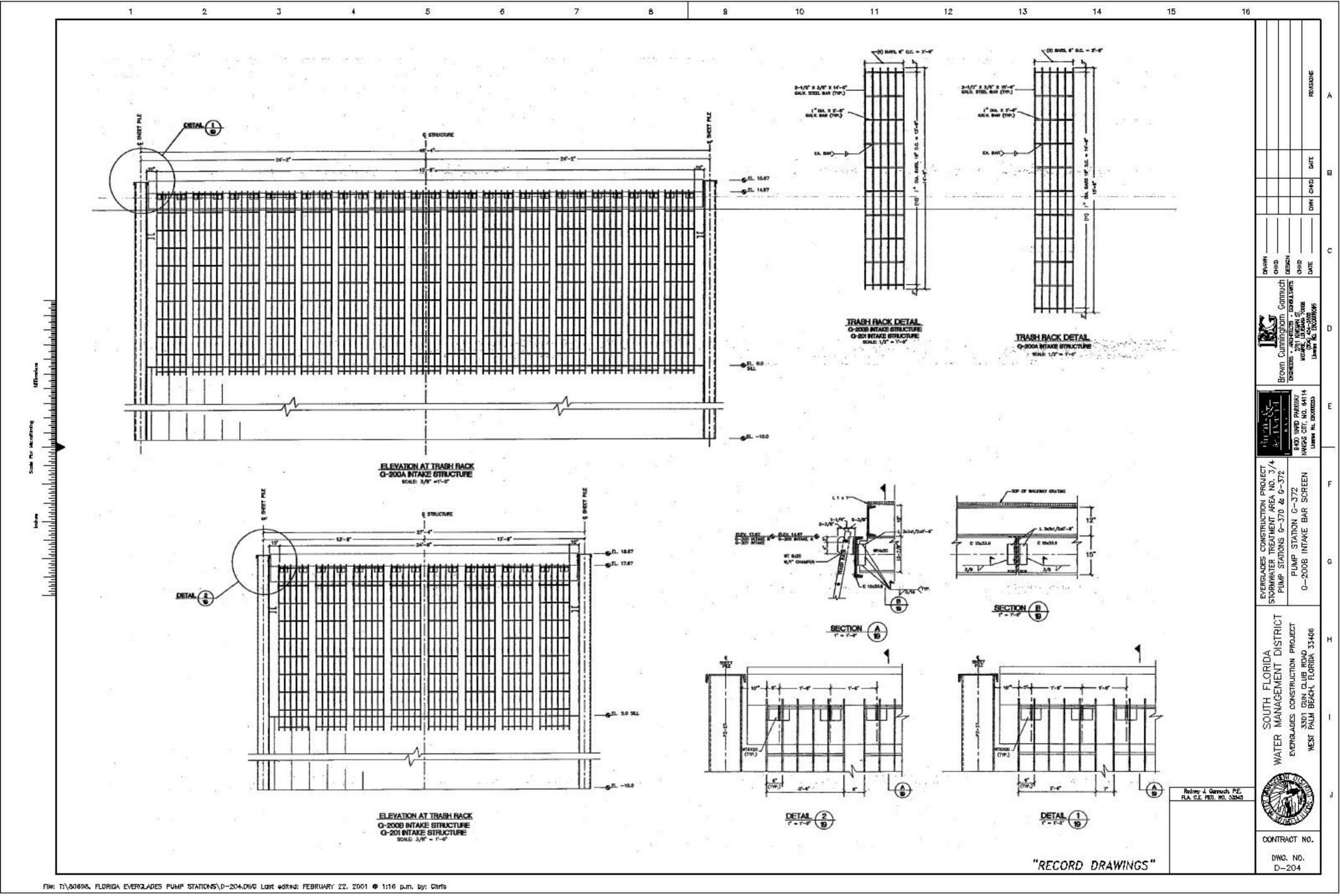


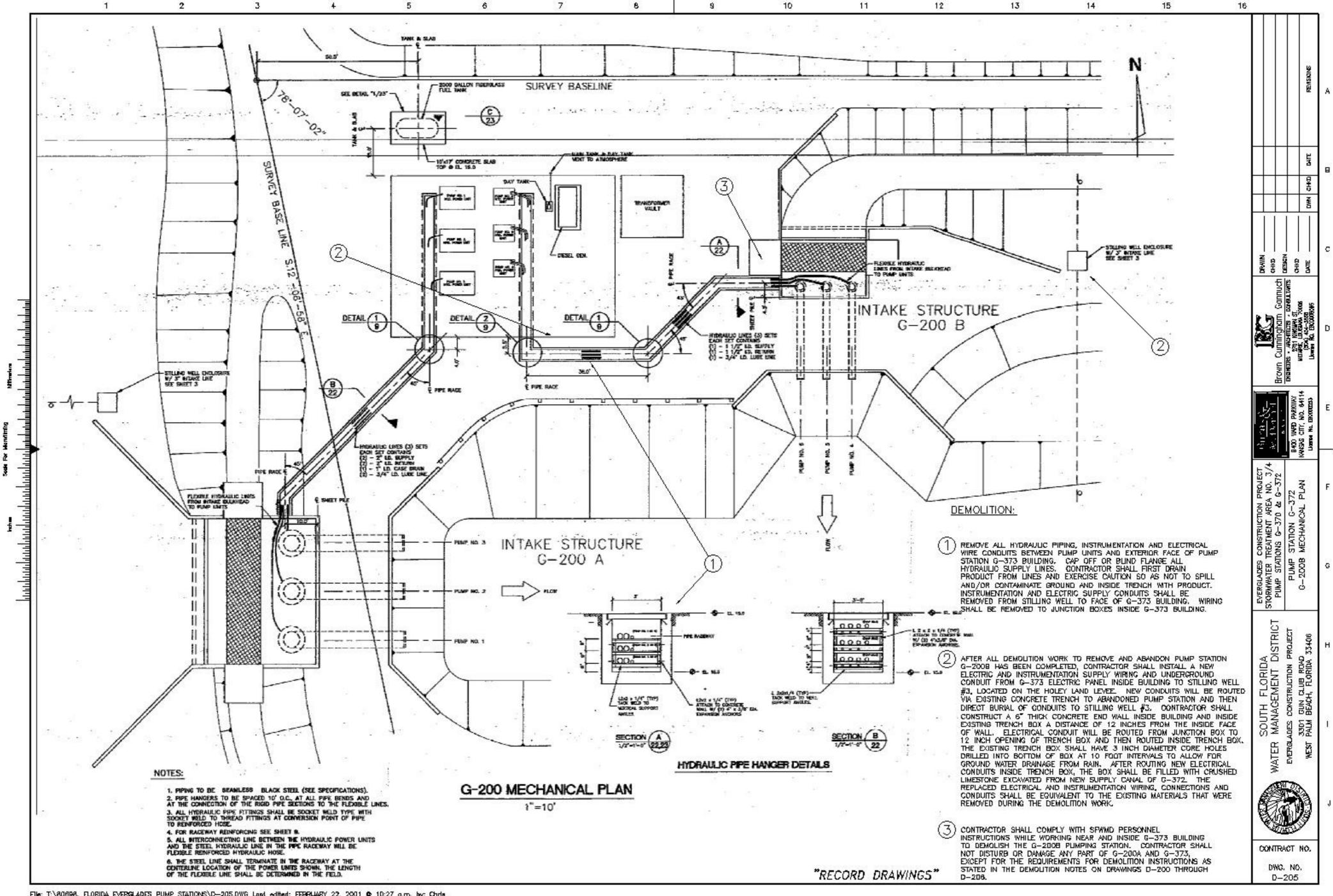


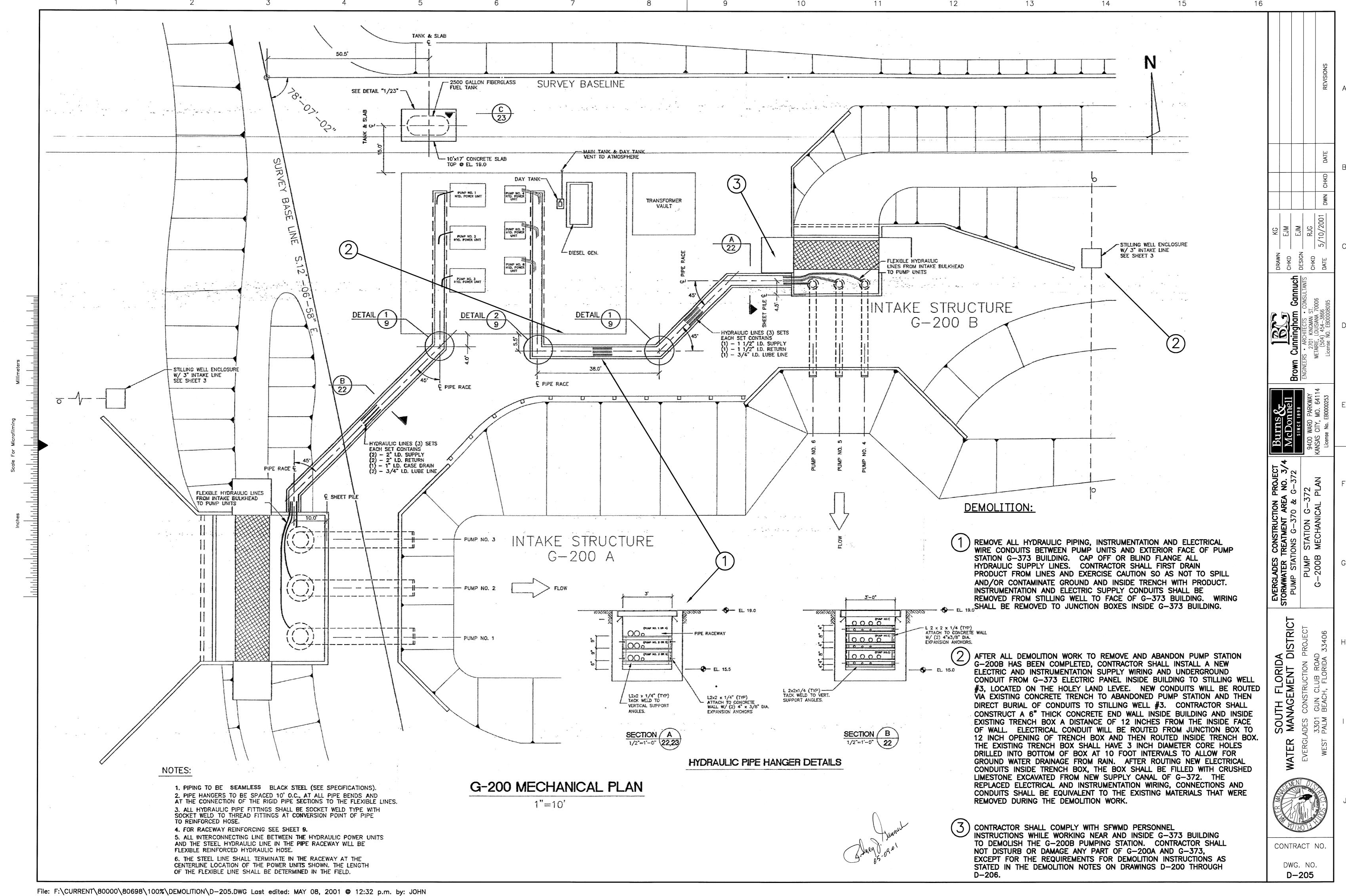


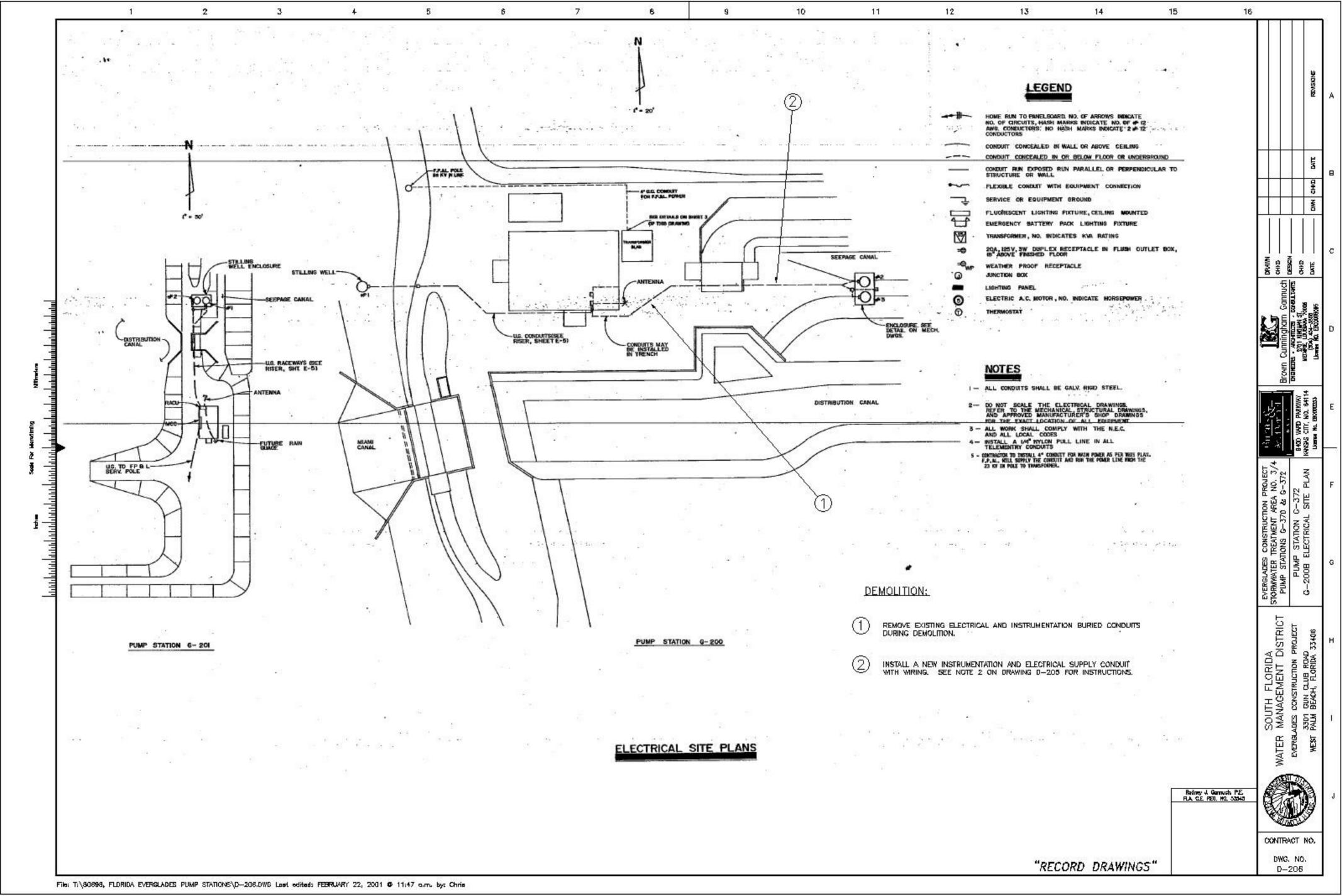






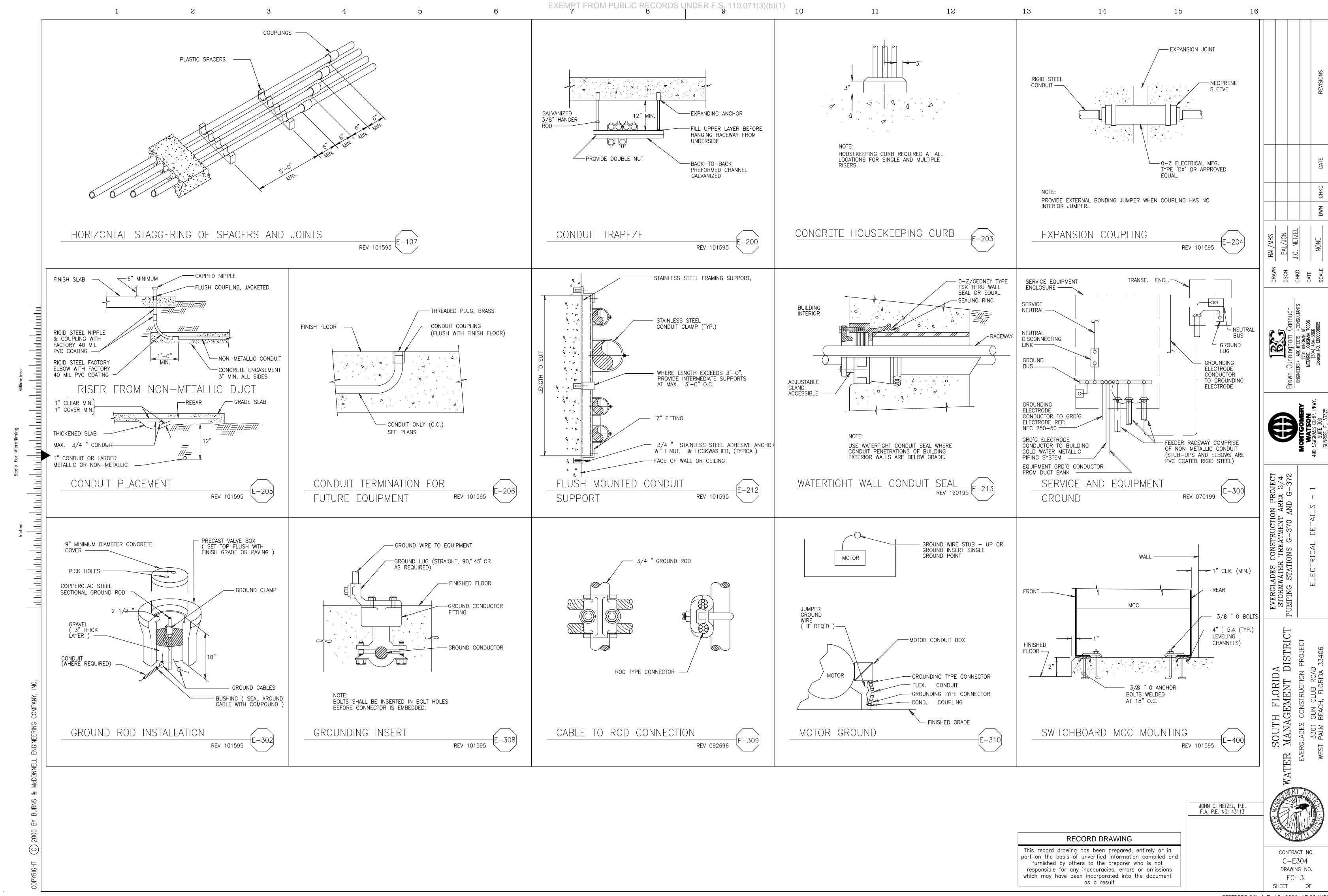


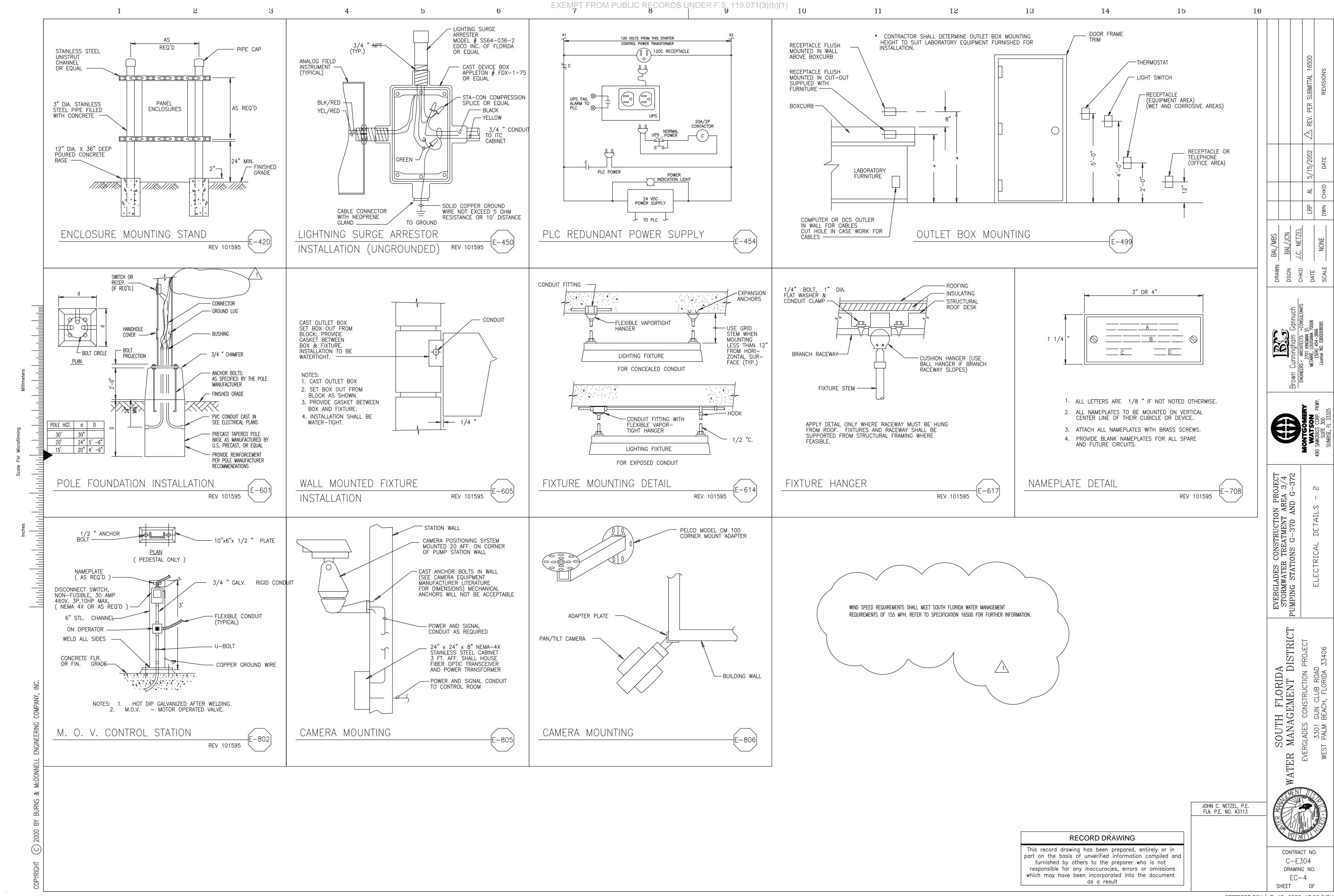


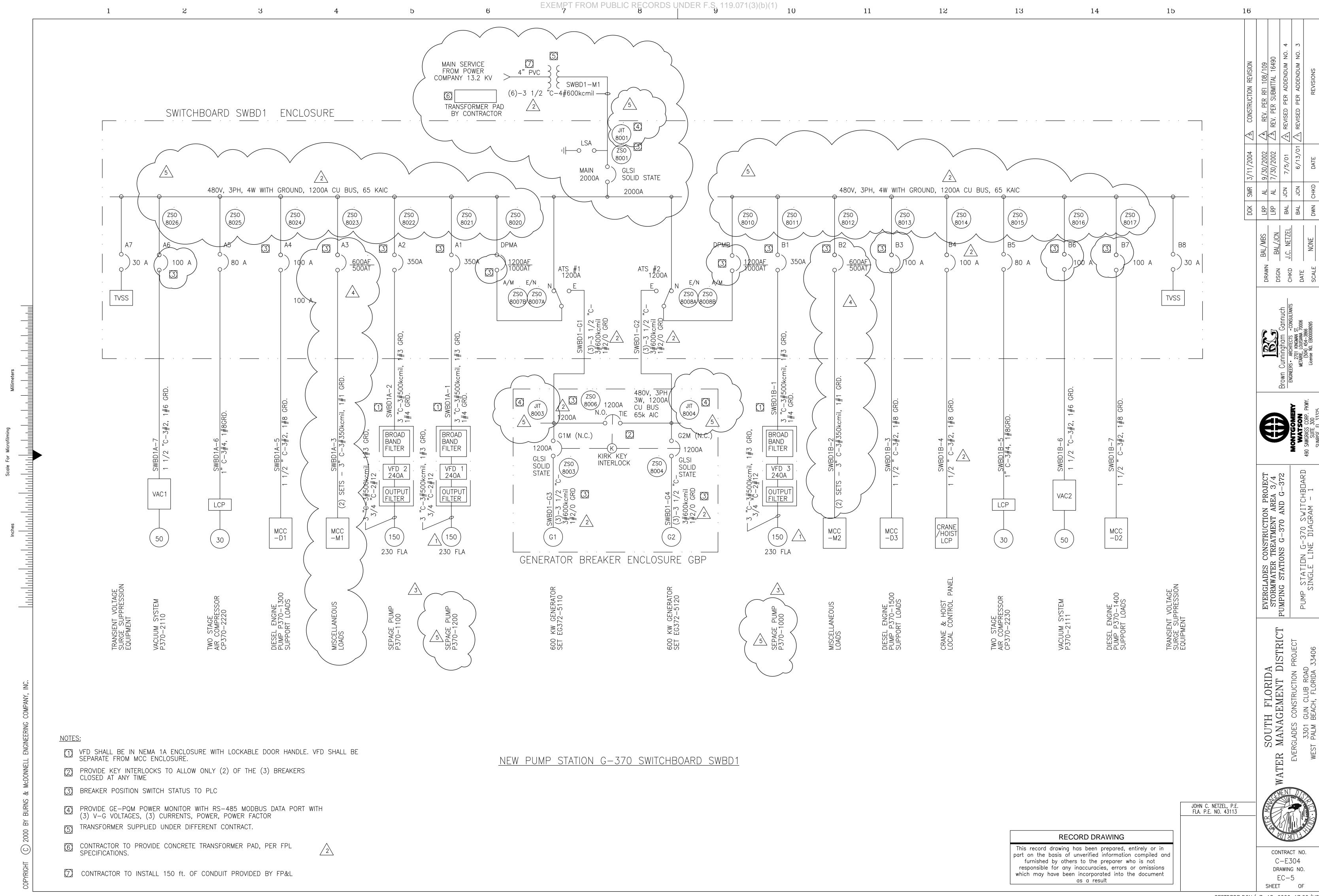


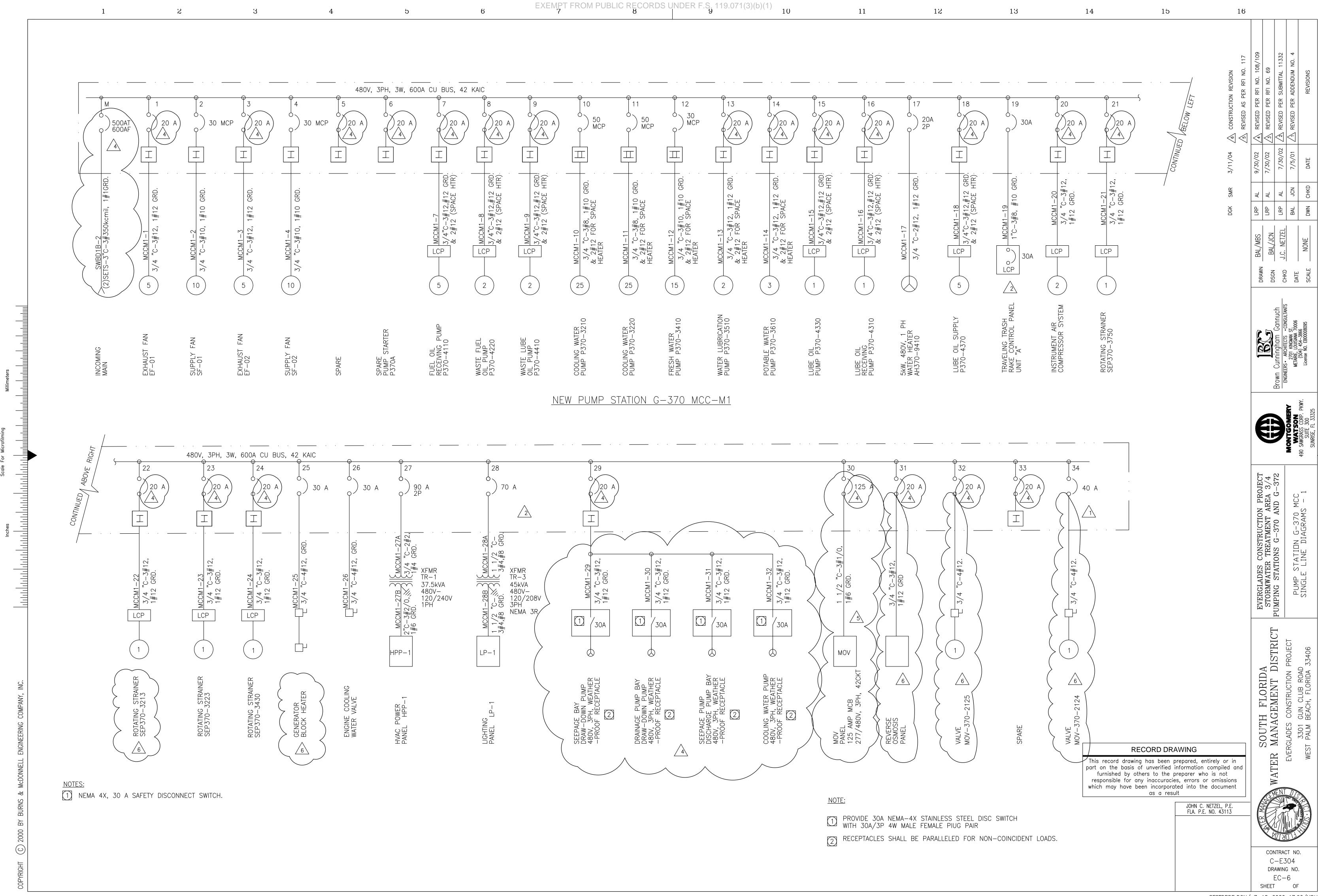
AND ALL STATES AND AL	D	Ι Δ Ν	S Y M B O L S SINGLE LINE DIAGRAM		
March Marc	GROUND BUS				
Compared to the compared of	EXPOSED CONDUIT	100V CINCLE DECEDIACLE NEWA	BUS		MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION
Company Comp	- · — CONDUIT CONCEALED ABOVE FLOOR.			EXAMPLE CR1 CONTROL RELAY	
Control of the first	— — CONDUIT RUN UNDERGROUND OR IN CONCRETE			1M STARTER NO. 1 MAIN CONTACTOR COIL	
Compared to the control of the con	— — EXPOSED CONDUIT RUN BEHIND OBSTRUCTION		SS RVAT — REDUCED VOLTAGE AUTOTRANSFORMER		POTENTIOMETER TYPE
## STATE OF STATE AND ADDRESS STATE OF STATE AND ADDRESS STATE			WITH NEMA RATED BY—PASS CONTACTOR AND OVERLOAD RELAYS		
	OR UNDERGROUND GROUND GRID, SIZE AS NOTED.	WELDING DECEDING A ADOV - 7 DUAGE - COA	1 CONTACTOR, SIZE 1 AS NOTED	O NORMALLY OPEN WITH TIME DELAY CLOSING	
20 April 1997 1997	HOME RUN TO PANEL "LP1", CIRCUITS #1, 3, 7. CONDUCTORS SHALL BE NO. 12 UNLESS OTHERWISE			O O NORMALLY CLOSED WITH TIME DELAY OPENING	
Contraction control Control control Control control Control control control control Control control control Control control control Control control control control Control control control control Control control control control control Control contro	NOTED. CONDUIT SIZES NOT IDENTIFIED SHALL BE $3/4$ "C MINIMUM WITH $2\#12$ & $1\#12$ GROUND.		MOLDED CASE CIRCUIT BREAKER, 3 POLE UNLESS 50A OTHERWISE NOTED. 50A TRIP RATING.	DE ENEDCIZED	SURGE SUPPRESSUR
March Mar	CONDUIT RUN - CHANGE IN ELEVATION	C CLOCK HANGER RECEPTACLE	NA – NON-AUTOMATIC MCP – MOTOR CIRCUIT PROTECTOR	NORMALLY OPEN WITH INSTANT CLOSING	
Commence	CONDUIT BENDS TOWARD OBSERVER	ELOOD TYDE TELEDUONE OUTLET		AND TIME DELAY OPENING	ETM ELAPSED TIME METER
Control of the con			DRAWOUT BREAKER, SIZE AS NOTED EO — DENOTES ELECTRICALLY OPERATED	NORMALLY CLOSED WITH INSTANT OPENING AND TIME DELAY CLOSING	SS SS
Manual Control of Bearing Cont		+ NUMBER TO DIFFERENTIATE BETWEEN DIFFERENT			⊗—√∬—⊗ HEATER
	CONDUIT CAPPED, OR SEALED		MEDIUM OR HIGH VOLTAGE DRAWOUT BREAKER		ODOCCING OF CONDUCTORS NOT CONNECTED
Compared	FLEXIBLE LIQUID - TIGHT CONDUIT CONNECTION			TORQUE SWITCH (SPECIFY WHEN OPEN)	DRAM
Company Comp		SUSPENDED CEILING	<←□□→ →> MEDIUM OR HIGH VOLTAGE STARTER	NORMALLY OPEN LIMIT SWITCH	CONNECTION OF CONDUCTORS, FITTING AS
Compared to the content of the con	IM-1 INDICATES CONDUIT NUMBER FROM MCC "1M" CIRCUIT 1.	LIGHTING PANEL	11 - LA LIGHTNING ARRESTOR AND SURGE CAPACITOR		DISCONNECT SWITCH
Compared to the compared to	EXIT LIGHT, SHOWN WITH TWO ILLUMINATED	POWER PANEL		NOTAWALLI GEGGED EIMIT SWITGIT	
Mark death of a control of the co		CROLIND CONNECTION DOLTED TYPE			HORN
The state of the	VAPOR, OR SIMILAR LAMP FIXTURE. "2" INDICATES			FLOAT TYPE LIQUID LEVEL SWITCH.	BELL
The absolute property of the control	CIRCUIT NUMBER. "a" INDICATES FIXTURE	<u> </u>	TRANSFORMER WITH GROUNDED SECONDARY, KVA SIZE & VOLTAGE RATIO AS NOTED.		C FIELD TEDMINAL
The state of the present section is a section of the present section		2.000 miles i diministra	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Comment of the comm	OR SIMILAR LAMP FIXTURE WITH EXPOSED BACK	LOCAL COMBINATION STARTER	-<-> RATIO AND NUMBER OF PT'S AS NOTED.	VACUUM OR PRESSURE SWITCH,	MOTOR CONTROL CENTER TERMINAL
Companies Comp	н 🗸	CONTACTOR	PT (2) DRAWOUT INDICATED.	I I ADENING AN DIGING DDECCTIDE	
Companies Comp	WALL BRACKET FLOOD OR SPOTLIGHT WITH CONCEALED BACK BOX AND CONDUIT.	MOTOR	CURRENT TRANSFORMER, 100:5 (-) RATIO AND NUMBER OF CT'S AS NOTED	TEMPERATURE ACTUATED SWITCH; CLOSING ON RISING TEMPERATURE	
The content of the co		MOTOR	100.5 T (3)	TEMPEDATURE ACTUATED CONTOUR	LIFE SAFETY DEVICES
	2 DISTRIBUTION TYPE AS INDICATED ON PLAN	MH RACEWAY BOX "MH" MANHOLE		OPENING ON RISING TEMPERATURE	
MATTER STORE	,	"HH" HANDHOLE "PB" PULLBOX	ELECTRICAL ENCLOSURE OUTLINE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FIRE ALARM HORN WITH STROBE LIGHT
MATTER STORE	FILIORESCENT LIGHTING FIYTURE			O TO FLOW SWITCH (AIR, WATER, ETC.);	FIRE ALARM BELL WITH STROBE LIGHT FIRE ALARM BELL WITH STROBE LIGHT END STROBE LIGHT
MATTER STORE	UNSWITCHED (SWITCHED AT LIGHTING PANEL ONLY)	(J) JUNCTION BOX OR FITTING	ELECTRICAL MOTOR OPERATED VALVE, WITH INTEGRAL REVERSING STARTER	OPENING ON FLOW INCREASE	FIRE ALARM MANUAL PULL STATION
MATTER STORE	EO FLUORESCENT LIGHTING FIXTURE	PSL		NORMALLY OPEN PUSHBUTTON,	HEAT DETECTOR
MATTER STORE		"LSH" LEVEL SWITCH HIGH	UNFUSED DISCONNECT SWITCH, SIZE AS NOTED		COMBINATION SMOVE AND HEAT DETECTOR
MATTER STORE	O FLUORESCENT LIGHTING FIXTURE ON NORMAL POWER	"SV" SOLENOID VALVE "HS" HAND SWITCH		MOMENTARY OPEN	COMPINATION SMOKE AND HEAT DETECTOR
Secretary and the property of the secretary and	7	"PSL" PRESSURE SWITCH LOW	FUSED DISCONNECT SWITCH		ELECTRIC DOOK CLOSEK B END OF THE TIME DESISTOR
Secretary and the property of the secretary and	BATTERY EMERGENCY LIGHT FIXTURE		40.1445		TO EIND OF THE LINE KESISTOK
Secretary and the property of the secretary and	1				VERC
THE PROPERTY SERVER FOUND STATES AND THE SER		HORN	(KWH) KILOWATTHOUR METER WITH DEMAND REGISTER	,	
FOUR-MAY SERVED HE SERVED AND PORT ON HE SAME SERVED HE SERVED AND PORT ON HE SAME SERVED AND PORT OF	THREE-WAY SWITCH	BELL			
MATCH SATE AND FLOT IDEAL	FOUR-WAY SWITCH		WM WATT METER		
MANUAL VOIDER STANTIER WOULDERSTANTIER	KEY-OPERATED SWITCH		AMMETER AMMETER		
SOME FACTOR METER SOME FACTOR METER SOME SAME FOR FORCE SWICE ("ON-OFF, FIC.) SAME FOR FORCE SWICE ("ON-OFF, FIC.) SAME FOR FORCE SWICE ("ON-OFF, FIC.) SOME SAME FOR FORCE SWICE ("ON-OFF, FIC.) SOME SAME FOR FORCE SWICE ("ON-OFF, FIC.) SOME SWICE FOR SWIC	SWITCH AND PILOT LIGHT	GROUND ROD 3/4 " X 10'-0" (UNLESS OTHERWISE NOTED)	VOLTMETER VOLTMETER	MOMENTARY CONTACT SWITCH ("LATCH-UNLATCH,"	
SINGLE POLIT TODAL SWITCH ("ON-OTH", ETC.) WIRE MANUFER SWITCH SINGLE POLIT TODAL SWITCH ("ON-OTH", ETC.) AMULTER SWITCH WILL MANUFER SWITCH OVERLOAD BELAY CONTACTS (MACNETIC) RECORD DRAWNING The record disorder new season prepared, extendy on in good on the states of investible the properties complete to the properties of the following test and the properties of	MANUAL MOTOR STARTER				
AMMETER SWITCH GROUND CONNECTION OVERLOAD RELAY CONTACTS (MAGNETIC) RECORD DRAWING The record crowing hos been prepared, entirely or in part on the cases of unwerted information complied and four of the prepared to be propered.				SINGLE POLE TOGGLE SWITCH ("ON-OFF", ETC.)	
VS VOLTMETER SWITCH OVERLOAD RELAY CONTACTS (MAGNETIC) JOHN C. NITZEL, P.E. FLA P.E. NO. 43113 FLA P.E. NO			(VAR) VARMETER		
VS VOLTMETER SWITCH OVERLOAD RELAY CONTACTS (MAGNETIC) JOHN C. NITZEL, P.E. FLA P.E. NO. 43113 FLA P.E. NO			AS AMMETER SWITCH		
RECORD DRAWING This record drawing has been prepared, entirely or in port, on the basis of unwerlided and firmed to shoot of the proper who is not the preparer who is not to the preparer who is not the prepare			VS VOLTMETER SWITCH	OL OL	
RECORD DRAWING This record drawing has been prepared, entirely or in part on the basis of unverified information compiled and furnished by others to the preparer who is not			VOLIMETER STITION	OVERLOAD RELAY CONTACTS (MAGNETIC)	
RECORD DRAWING This record drawing has been prepared, entirely or in part on the basis of unverified information compiled and furnished by others to the preparer who is not					
RECORD DRAWING This record drawing has been prepared, entirely or in part on the basis of unverified information compiled and furnished by others to the preparer who is not					IOLINI O NIETZEL DE
This record drawing has been prepared, entirely or in part on the basis of unverified information compiled and furnished by others to the preparer who is not					JUHN C. NEIZEL, P.E. FLA. P.E. NO. 43113
This record drawing has been prepared, entirely or in part on the basis of unverified information compiled and furnished by others to the preparer who is not					
part on the basis of unverified information compiled and furnished by others to the preparer who is not					This record drawing has been prepared, entirely or in
					part on the basis of unverified information compiled and

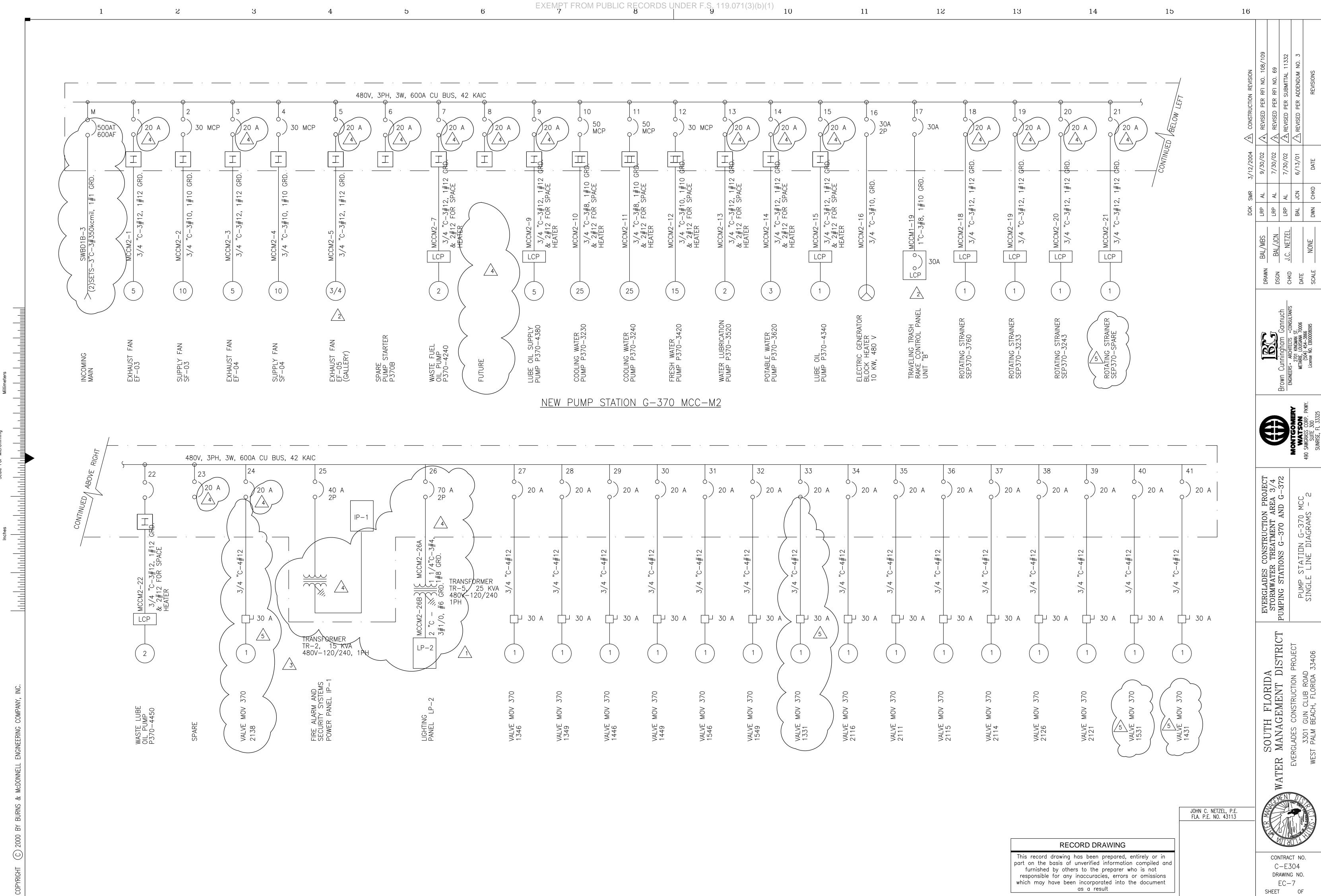
	1 2		3 4	5	6	EXEMPT FR	ROM PUBLI	IC RECORDS UNDER F.S. 119.071(3)(b)(1)	10 11 12 13 14 15 16
			A B B R E	V	A T I	0 N S	 S		DEVICE LIST
				0	OPEN				FUNCTION DESCRIPTION FUNCTION DESCRIPTION
A	AMPERE, AUTO, AMMETER	FVR	FULL VOLTAGE REVERSING	OC	ON CENTER		NA	NON-AUTOMATIC	
AC	ALTERNATING CURRENT	FVNR	FULL VOLTAGE NON-REVERSING FORWARD CONTACTOR COIL	СС	CENTER TO CENTER		NC	NORMALLY CLOSED	23 TEMPERATURE CONTROL REV 60 VOLTAGE BALANCE REV 63 SUDDEN PRESSURE RELAY FURNISHED WITH XFMR
A/C	AIR CONDITIONING	FWD	FORWARD CONTACTOR COIL	OL	OVERLOAD RELAY		NO, NOS	NUMBER, NUMBERS, NORMALLY OPEN	25 GENERATOR SYNCHRONIZER 63 SUDDEN PRESSURÉ RELAY FURNISHED WITH XFMR 63X AUXILIARY RELAY
AF	AMPERE FRAME SIZE OF CKT. BRKRS.	GALV	GALVANIZED	P	POLE		NP	NAMEPLATE	32 DIRECTIONAL POWER RELAY 65 GOVERNOR CONTROL
AFF	ABOVE FINISHED FLOOR	GEN	GENERATOR	PA	PUBLIC ADDRESS SYSTEM	1	NIC	NOT IN CONTRACT	43 SELECTOR SWITCH 81P OVERFREQUENCY RELAY
AL	ALUMINUM	GRD	GROUND	PB	PUSHBUTTON		NITS	NOT IN THIS SECTION	46 REVERSE-PHASE, OR PHASE-BALANCE CURRENT RELAY 81U UNDERFREQUENCY RELAY
AM	AMMETER	НН	HAND HOLE	РСМ	PROCESS CONTROL MOD	ULE	NTS	NOT TO SCALE	47 UNDERVOLTAGE PHASE SEQUENCE RELAY 83 AUTOMATIC SELECTIVE CONTROL RELAY
ANN	ANNUNCIATOR	HID	HIGH INTENSITY DISCHARGE	PF	POWER FACTOR				49 TEMPERATURE RELAY 86 LOCK-OUT RELAY
AMP	AMPERES, AMPERAGE	HIGH	HIGH SPEED CONTACTOR	PH,	O PHASE				50G INSTANTANEOUS OVERCURRENT GROUND RELAY 86X AUXILIARY LOCK-OUT RELAY
APPR	APPROVED AMMETER SWITCH, ADJUSTABLE SPEED	HOA	HAND — OFF — AUTOMATIC	PNL			UG	UNDERGROUND	51 TIME OVERCURRENT RELAY 87 DIFFERENTIAL RELAY
AS	AMPERE TRIP	HP	HORSE POWER HIGH PRESSURE SODIUM	PNLI			UH	UNIT HEATER	51N TIME OVERCURRENT GROUND FAULT RELAY 90 REGULATING DEVICE
ATS	AUTOMATIC TRANSFER SWITCH	HPS HTR, H	HEATER	POS			V	VOLTAGE, VOLTS	51V TIME OVERCURRENT RELAY WITH VOLTAGE RESTRAINT
AUTO	AUTOMATIC	HVAC	HEATING VENTILATION AIR CONDITIONING	POT			VAR	VAR METER	50/51 INSTANTANEOUS/TIME OVERCURRENT RELAY 520S CIRCUIT BREAKER CONTROL SWITCH "TRIP"—"CLOSE"
AWG	AMERICAN WIRE GAUGE	HZ	HERTZ	PRI	PRESSURE SWITCH		VFD	VARIABLE FREQUENCY DRIVE	SPRING RETURN TO NORMAL
		IMO	INTERMEDIATE METAL CONDUIT	PT	POTENTIAL TRANSFORMER	3	VP	VAPORPROOF	52T TIE CIRCUIT BREAKER SBW SI
BATT	BATTERY	IMC INCAND	INTERMEDIATE METAL CONDUIT INCANDESCENT	PVC		`	VS	VARIABLE SPEED, VOLTMETER SWITCH	GENERAL NOTES
BKR	BREAKER	IND	INDICATION (SYSTEM)	PW	PART WINDING				$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
BBL BLDG	BUBBLER BUILDING	1/0	INPUT/OUTPUT	PWR			W	WATTS, WIRE	1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL POYES AND CONDUIT ENTRANCES OF ALL FOLIPMENT ACADIST
REDG		INST	INSTANTANEOUS (TD CONTACT)				WHD	WATTHOUR DEMAND METER	BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST
C	CONDUIT, CLOSED, COIL	INSTR	INSTRUMENT	REC	RECEPTACLE		WHM	WATTHOUR METER	SHOP DRAWINGS BEFORE STUBBING UP CONDUITS.
CAB	CABINET	Isc	SHORT CIRCUIT CURRENT, AMPS	REC	PTS RECEPTACLES		WP	WEATHERPROOF	2. CONDUIT FOR FUTURE EQUIPMENT OR EXTENSION SHALL BE TERMINATED AS SHOWN IN DETAIL OR AS SPECIFIED.
CKI	CIRCUIT BREAKER	INVT	INVERT	REQ	'D REQUIRED				3. CONNECTION BETWEEN RIGID CONDUIT AND MOTOR TERMINAL
CKT CO	CIRCUIT CONDUIT ONLY	JB	JUNCTION BOX	REV					
COND		J BOX	JUNCTION BOX	RGS			XD	TRANSDUCER	BOX SHALL BE FLEXIBLE LIQUID—TIGHT CONDUIT. 4. EXPOSED FLEXIBLE CONNECTIONS SHALL BE FLEXIBLE LIQUID— TIGHT CONDUIT WITH APPROVED GROUNDING TYPE FITTINGS AND SHALL NOT EXCEED 30" IN LENGTH FOR 2" SIZE AND AND SHALL NOT EXCEED 30" IN LENGTH FOR 2" SIZE AND
COMP				RUN			XFMR	TRANSFORMER	AND SHALL NOT EXCEED 30" IN LENGTH FOR 2" SIZE AND LARGER. MAXIMUM OF 18" FOR SIZES 1 1/2 ' AND SMALLER.
د COMP		KVA	KILO (1000) VOLT AMPS	RTU		TRANSFORMER	XMTR	TRANSMITTER	5. CONDUITS TERMINATING AT SWITCHBOARD, MOTOR CONTROL
CP CP	CONTROL PANEL	KW	KILOWATTS	RVA ⁻	T REDUCED VOLTAGE AUTO	TRANSFORMER [CENTER, POWER PANELS, CONTROL CABINETS, ETC., SHALL
EPT CPT	CONTROL POWER TRANSFORMER (IN	KWH	KILOWATT HOUR	SCH	SCHEDULE				BE EQUIPPED WITH A GROUNDING BUSHING TOZ TYPE GBT AND GROUNDED AS A BANK WITH NO. 6 GROUND WIRE. ———————————————————————————————————
	INDIVIDUAL STARTER CUBICLE)	LC	LIGHTING CONTACTOR	SEC	SECONDS, SECONDARY				6. CONDUITS STUB-UPS SHALL NOT BE MORE THAN 6" FROM CENTER LINES OF TERMINAL BOXES.
CR	CONTROL RELAY (MAGNETICALLY HELD)	LCB	LOCAL CONTROL BOARD	SEC	T SECTION				
gri CS	CONTROL STATION	LCP	LOCAL CONTROL PANEL	SEL	SW SELECTOR SWITCH				FREE STANDING PANELS SHALL BE SET ON CONCRETE PAD AND LEVELING CHANNELS EMBEDDED IN PAD AS SHOWN IN MCC DETAIL,
E CT	CURRENT TRANSFORMER	LOC	LOCAL	SEQ	SEQUENCE				7. MOTOR CONTROL CENTERS, SWITCHBOARDS, SWITCHGEAR AND ALL FREE STANDING PANELS SHALL BE SET ON CONCRETE PAD AND LEVELING CHANNELS EMBEDDED IN PAD AS SHOWN IN MCC DETAIL, UNLESS OTHERWISE INDICATED.
CO CO	COPPER	LOS	PUSHBUTTON W/"LOCK-OUT-STOP"	SHLI					8. IN CASE OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE
ale Fo		LS	LEVEL SWITCH	SHT					CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND
Š — DC	DIRECT CURRENT	LT, LTS	LIGHT, LIGHTS	SIG					BEFORE THEY ARE MADE. 9. ALL OUTDOOR DEVICES SHALL BE WEATHERPROOF. 10. ALL RECEPTACLES IN OUTDOOR AND ANTICIPATED WET AREAS SHALL BE GROUND FAULT INTERRUPTER RECEPTACLES.
DISC	DISCONNECT	LTG	LIGHTING		S2 START CONTACTOR COILS				9. ALL OUTDOOR DEVICES SHALL BE WEATHERPROOF.
DISTR		LOW	LOW SPEED CONTACTOR	SP SPD	SPARE T SINGLE POLE DOUBLE THE	IDOW			10. ALL RECEPTACLES IN OUTDOOR AND ANTICIPATED WET AREAS SHALL BE GROUND FAULT INTERRUPTER RECEPTACLES.
DPDT DWG	DOUBLE POLE DOUBLE THROW DRAWING	М	MOTOR CONTACTOR COIL	SPE		TROW			11. ALL RECEPTACLES SHALL BE MOUNTED 12" ABOVE FLOOR
E E	EMPTY, EMERGENCY	MA	MILLIAMPS	SP					11. ALL RECEPTACLES SHALL BE MOUNTED 12" ABOVE FLOOR SURFACE UNLESS OTHERWISE INDICATED. 12. LOCATION OF PULLBOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF PULLBOXES WITH MECHANICAL PIPING AND SHALL BE AWAY FROM FLOW LINES. ANY FIELD ADJUSTMENTS SHALL BE AT NO ADDITIONAL
ELEV	ELEVATION	MAN	MANUAL	SPS		ROW			12. LOCATION OF PULLBOXES ARE APPROXIMATE. CONTRACTOR
EMER	S EMERGENCY	MAG	MAGNETIC	SS	STAINLESS STEEL (304)				SHALL COORDINATE EXACT LOCATION OF PULLBOXES WITH MECHANICAL PIPING AND SHALL BE AWAY FROM FLOW LINES.
EMT	ELECTRICAL METALLIC TUBING	MAX	MAXIMUM	ST,	SH SHUNT TRIP				ANY FIELD ADJUSTMENTS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
ENCL	ENCLOSURE	MCC MCB	MOTOR CONTROL CENTER MAIN CONTROL BOARD	STA	STATION				COST TO THE OWNER. 13. CONTRACTOR SHALL PROVIDE ADDITIONAL PULLBOXES WHERE THEY ARE REQUIRED TO MAKE
EP EP	EXPLOSION PROOF	MCB MCM	THOUSAND CIRCULAR MILS	STD	STANDARD				PULLBOXES WHERE THEY ARE REQUIRED TO MAKE A WORKABLE INSTALLATION.
EQPT	EQUIPMENT	MD	MOTORIZED DAMPER	STL					A WORKABLE INSTALLATION. 14. ALL DEVICES SHOWN IN THE CONTROL DIAGRAMS SHALL BE MOUNTED IN THE MCC UNLESS NOTED OTHERWISE.
ER	CONDUCTANCE LEVEL RELAY	MH	MANHOLE	STR					$\mid \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid \mid$
ETM	ELAPSED TIME METER	MIN	MINUTES, MINIMUM	SV	SOLENOID VALVE				15. ALL DEVICES SHOWN IN THE CONTROL DIAGRAMS FOR A PANEL SHALL BE MOUNTED IN THE PANEL UNLESS NOTED OTHERWISE.
EXH EWC	EXHAUST ELECTRIC WATER COOLER	MLO	MAIN LUGS ONLY	SW					46 CONTRACTOR SHALL DETERMINE THE NUMBER OF WIDES IN
EXIST		MOV	MOTOR OPERATED VALVE	SYS	SYSTEM				EACH CIRCUIT TO MAKE THE SYSTEM COMPLETE AND OPERABLE. MINIMUM WIRE SIZE SHALL BE #12. MINIMUM CONDUIT SIZE
F,		MS	MANUAL MOTOR STARTER	ТВ	TERMINAL BOX				MINIMUM WIRE SIZE SHALL BE #12. MINIMUM CONDUIT SIZE SHALL BE 3/4". VI Q 7
FA	FIRE ALARM SYSTEM	MT, MTD	MOUNT, MOUNTED	TC	TIME CLOCK				17. REFER TO INSTRUMENTATION DRAWINGS FOR INSTRUMENT DESIGNATIONS.
S FDR	FEEDER	MTP	MEMBRANE TRAIN PANEL	TACH					ENTI SERVICE S
FLEX	FLEXIBLE	MTR	MOTOR	TEMF					
7dW0 FLU01	FLUORESCENT	MUX	MULTIPLEXING PANEL	TERM	M TERMINAL				
O FM	FREQUENCY METER	N	NEUTRAL	IH TM	THERMOSTAT				
FUT	FUTURE			TD	REPEAT CYCLE TIMER TIME DELAY RELAY				SOUT MANA Relabes
NGINI				TS	TEMPERATURE SWITCH				$ec{S} imes imes 0$
				TYP	TYPICAL				
)NNE									
McDC									$\bigwedge_{i \in \mathcal{N}} M_i$
8									NENT DE
JRNS									JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113
.¥ B									FLA. P.L. NO. 43113
00 E									
) 20									RECORD DRAWING This record drawing has been prepared entirely or in
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IGHT									furnished by others to the preparer who is not responsible for any inaccuracies, errors or omissions DRAWING NO.
OPYR -									which may have been incorporated into the document EC-2
O [^T NO								SFSTDBDR.DGN / 7-18-2000 17:20



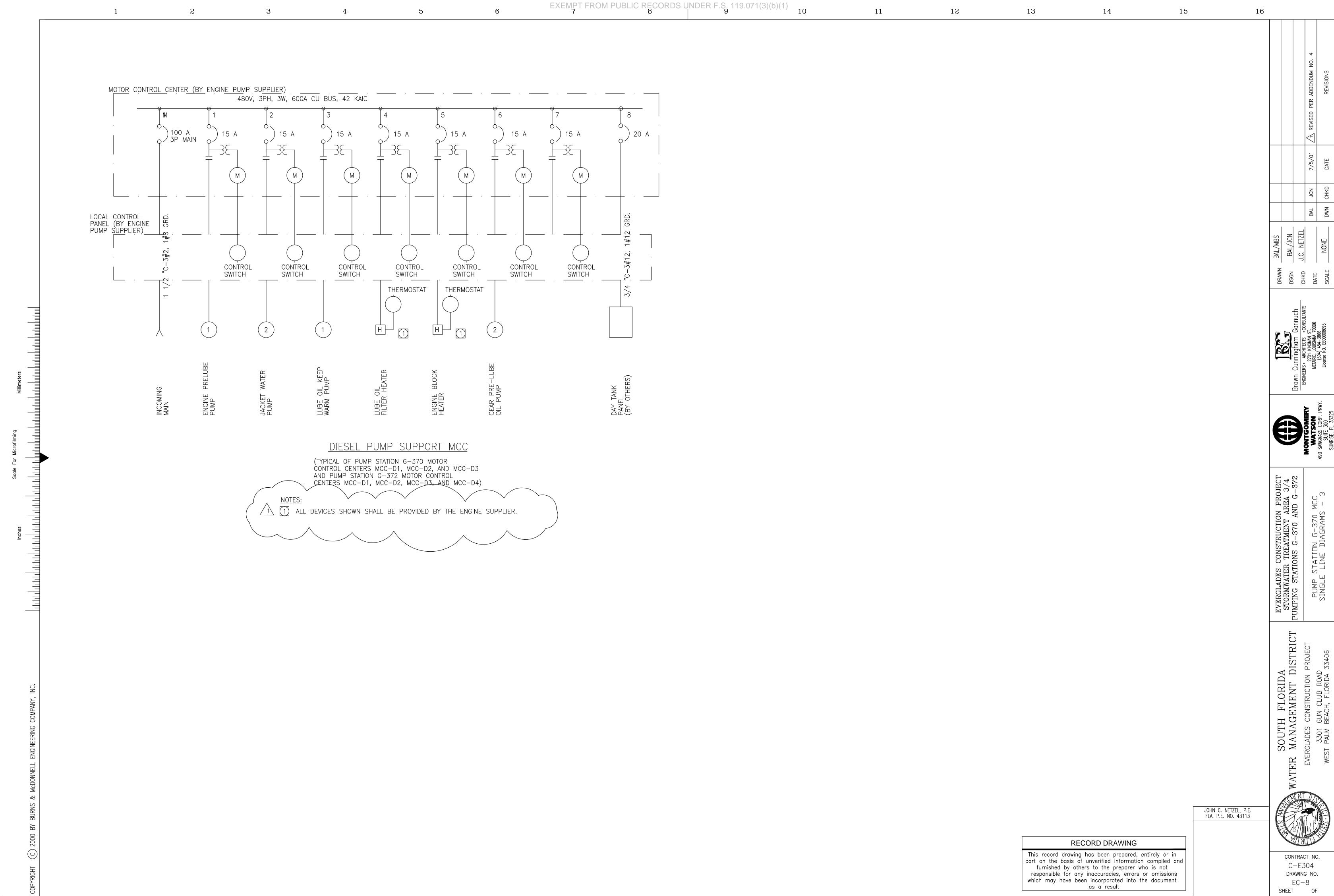


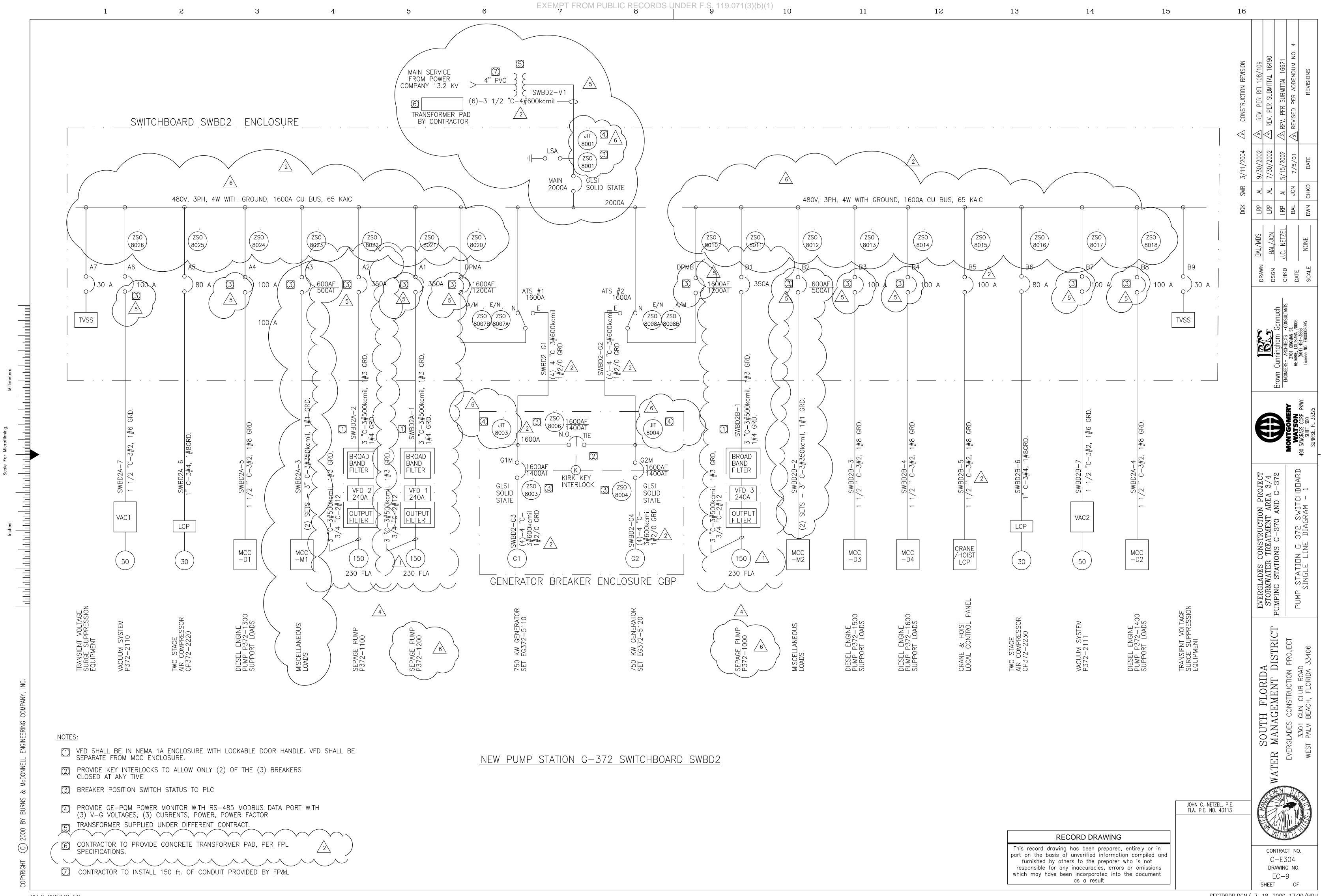


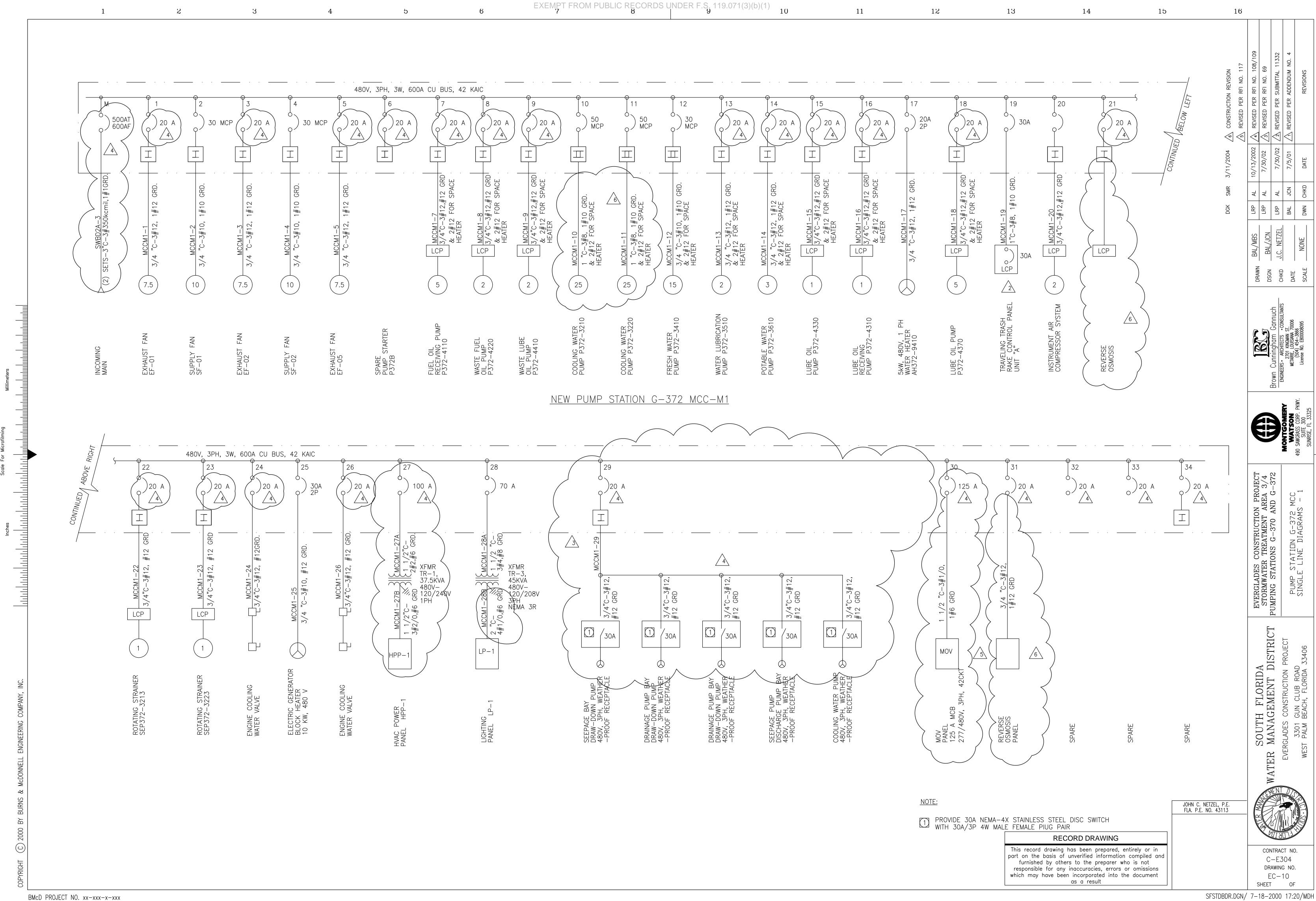


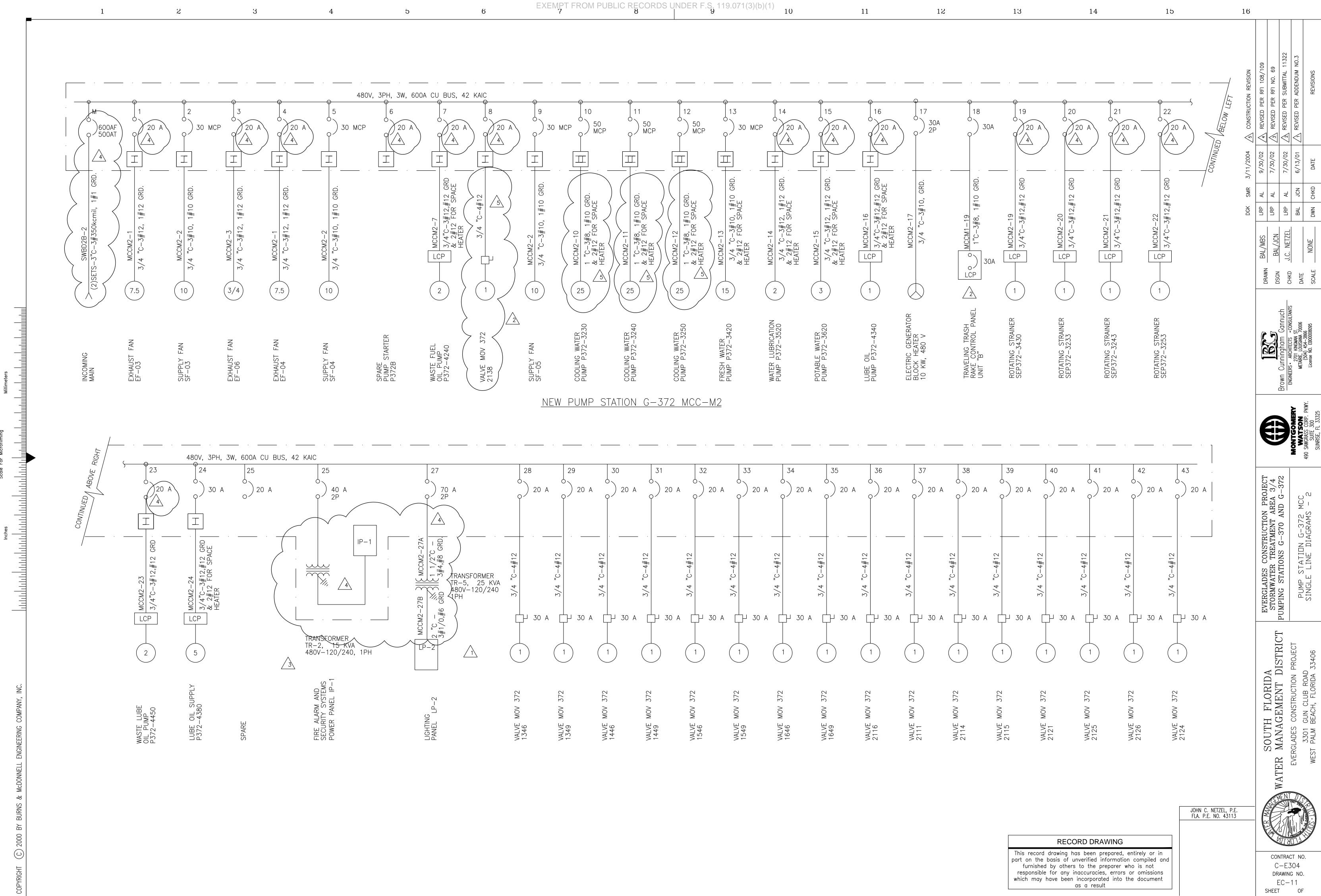


BMcD PROJECT NO. xx-xxx-x-xxx









BMcD PROJECT NO. xx-xxx-x-xxx

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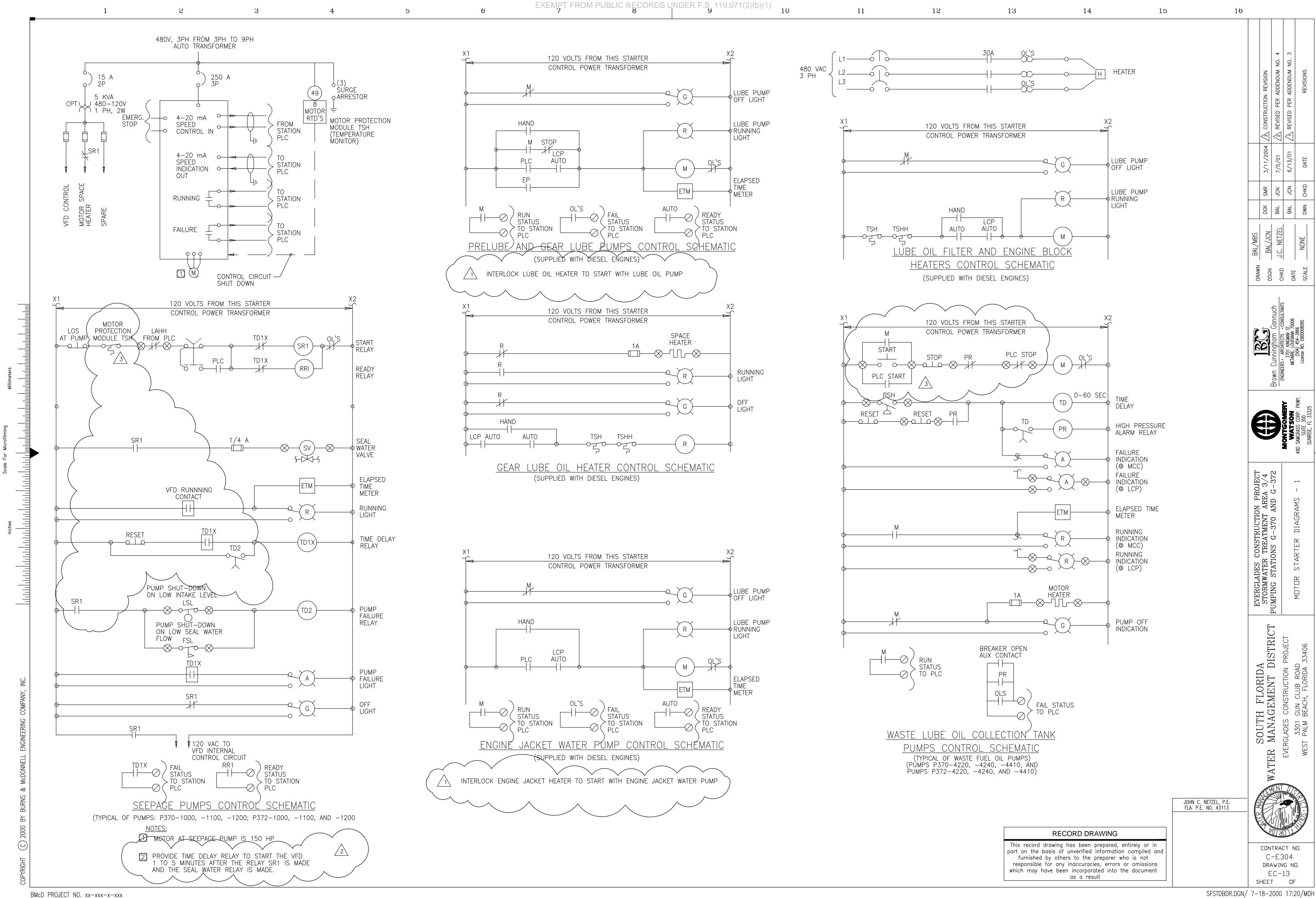
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FER MANAGEMENT DISTRICT
EVERGLADES CONSTRUCTION PROJECT
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

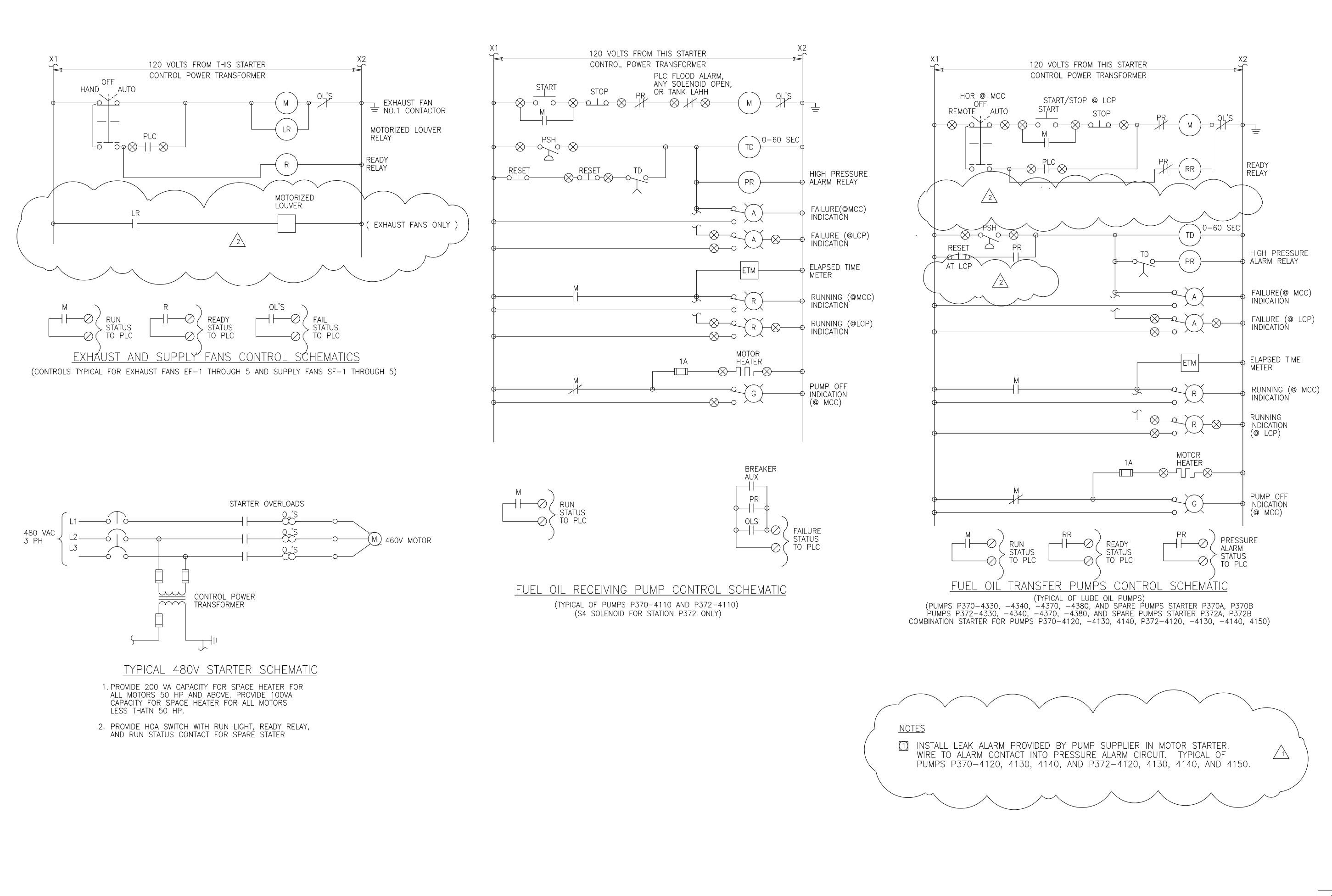
EVERGLADES CONSTRUCTION PROJECT STORMWATER TREATMENT AREA 3/4 UMPING STATIONS G-370 AND G-372

, STATION G-372 E LINE DIAGRAMS

16

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JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

16

5/22/2001

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CONTRACT NO.

C-E304

DRAWING NO.

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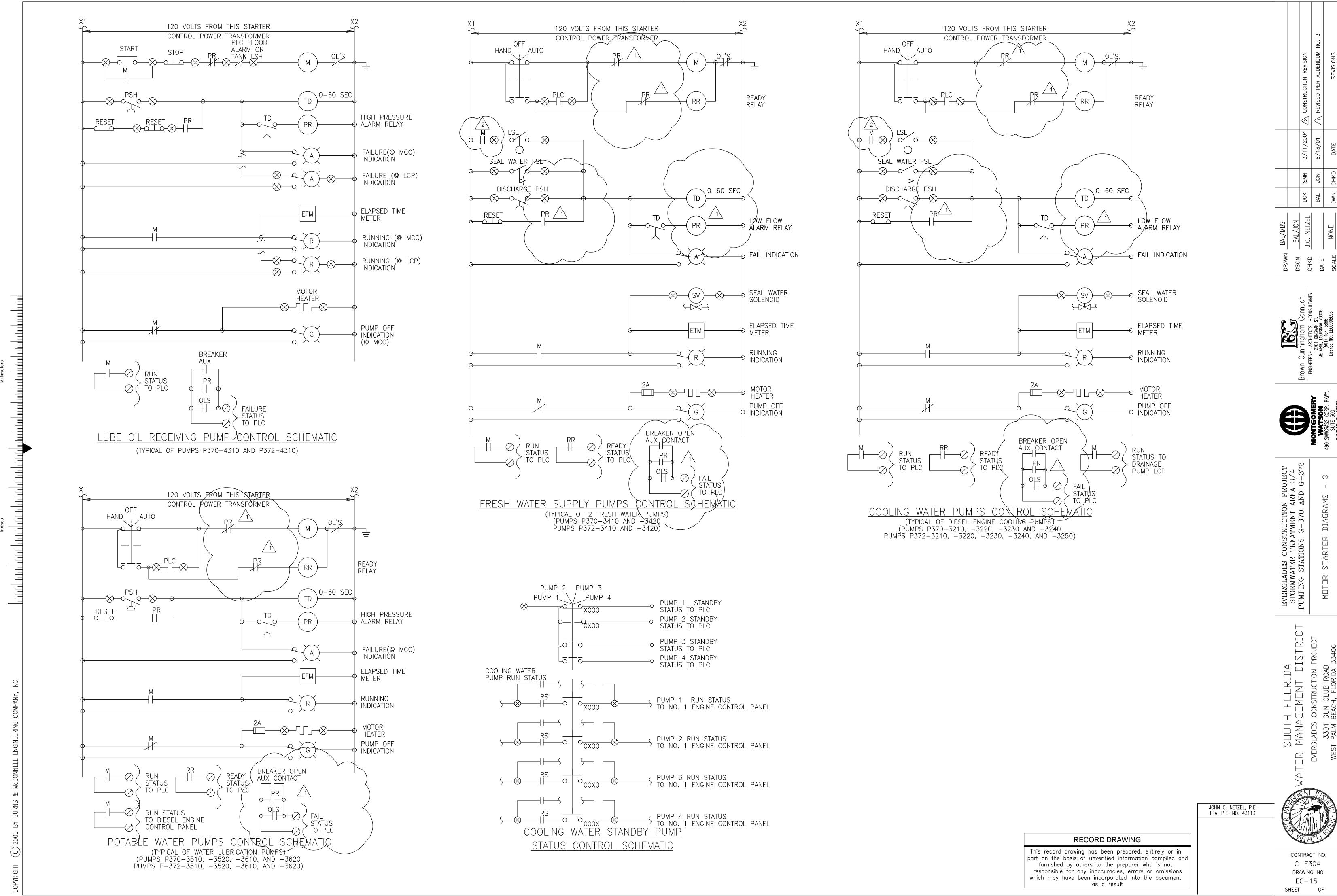
SOUTH FLORIDA

MANAGEMENT DISTRICT

ERGLADES CONSTRUCTION PROJECT

3301 GUN CLUB ROAD

EST PALM BEACH, FLORIDA 33406



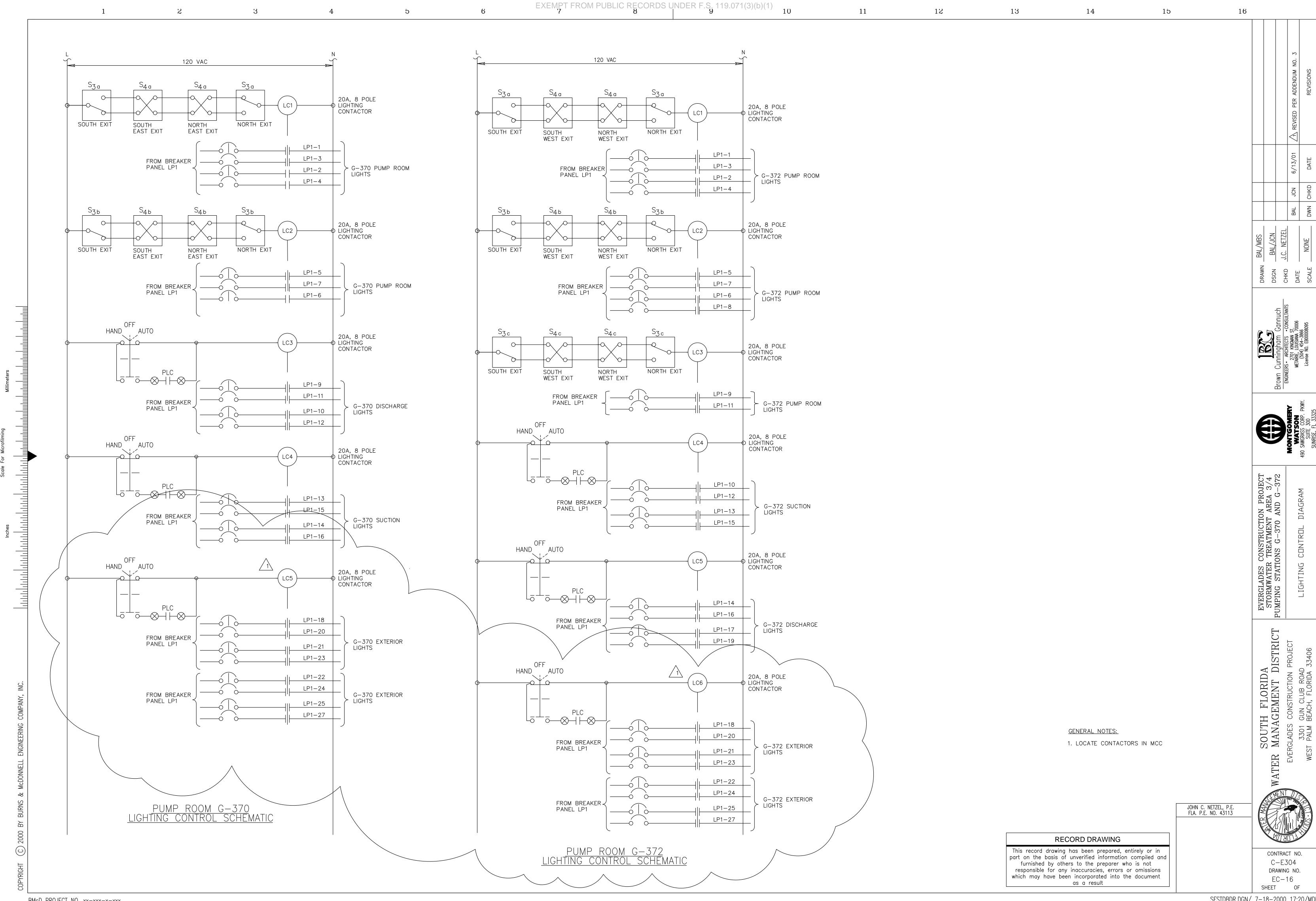
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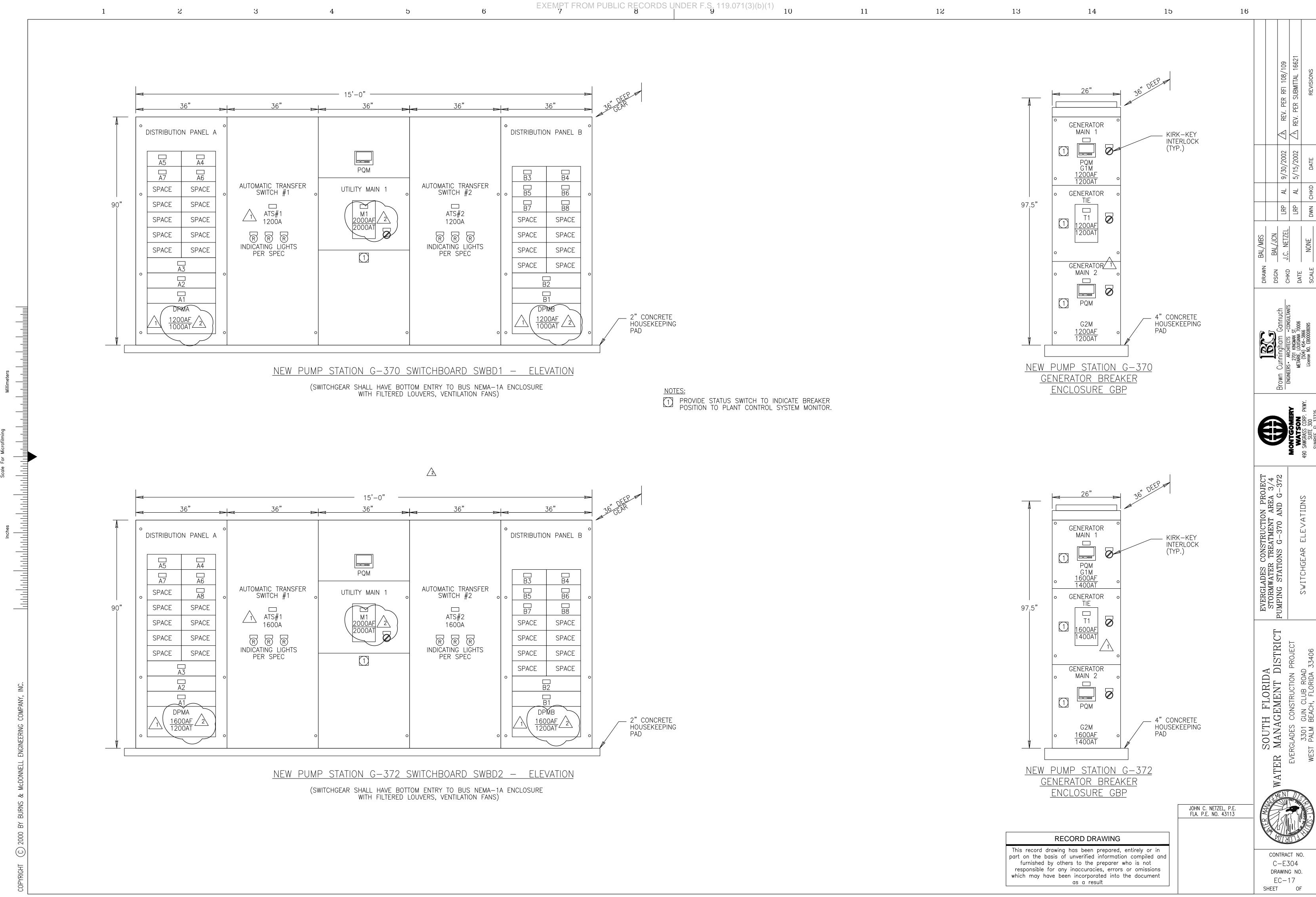
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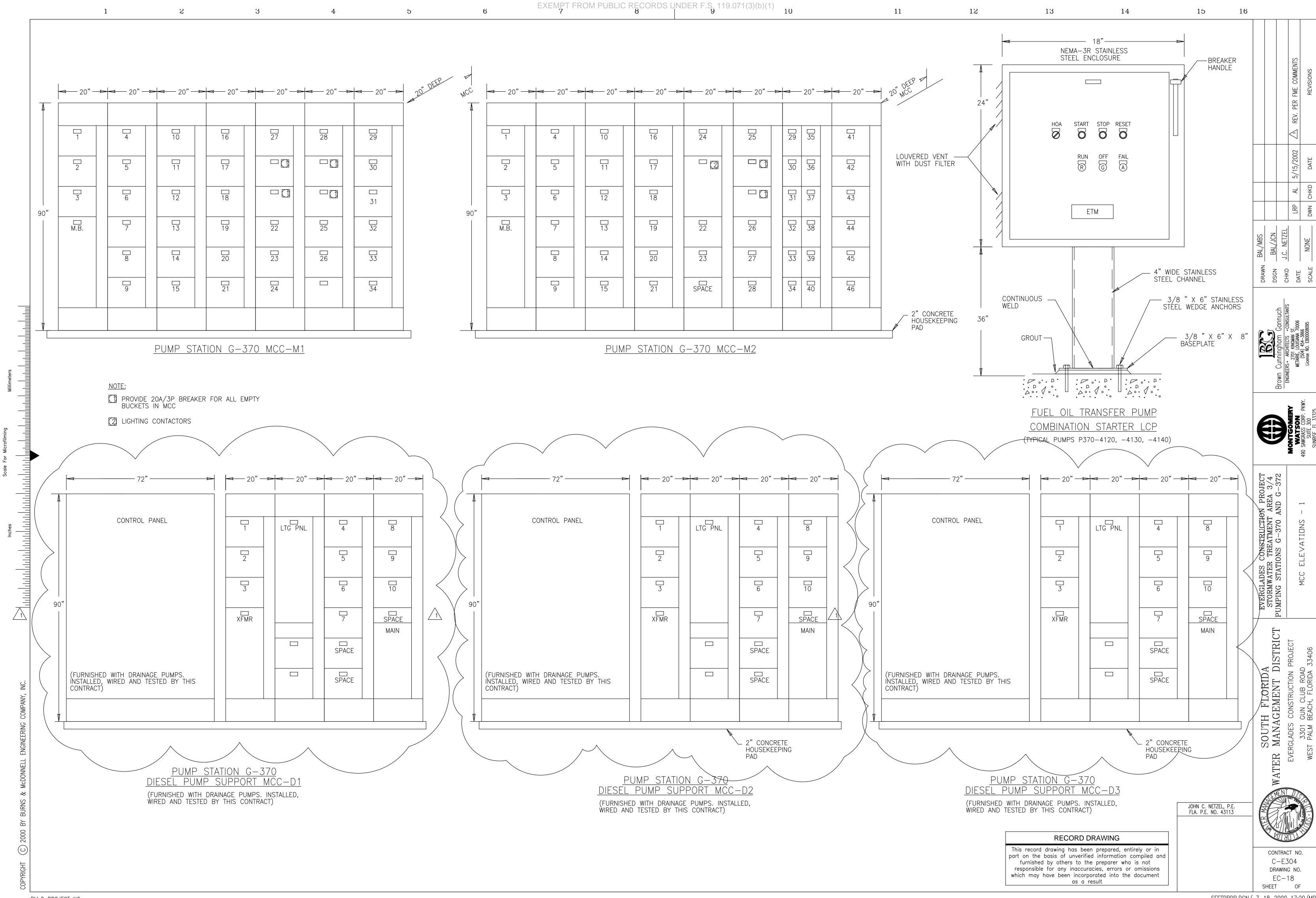
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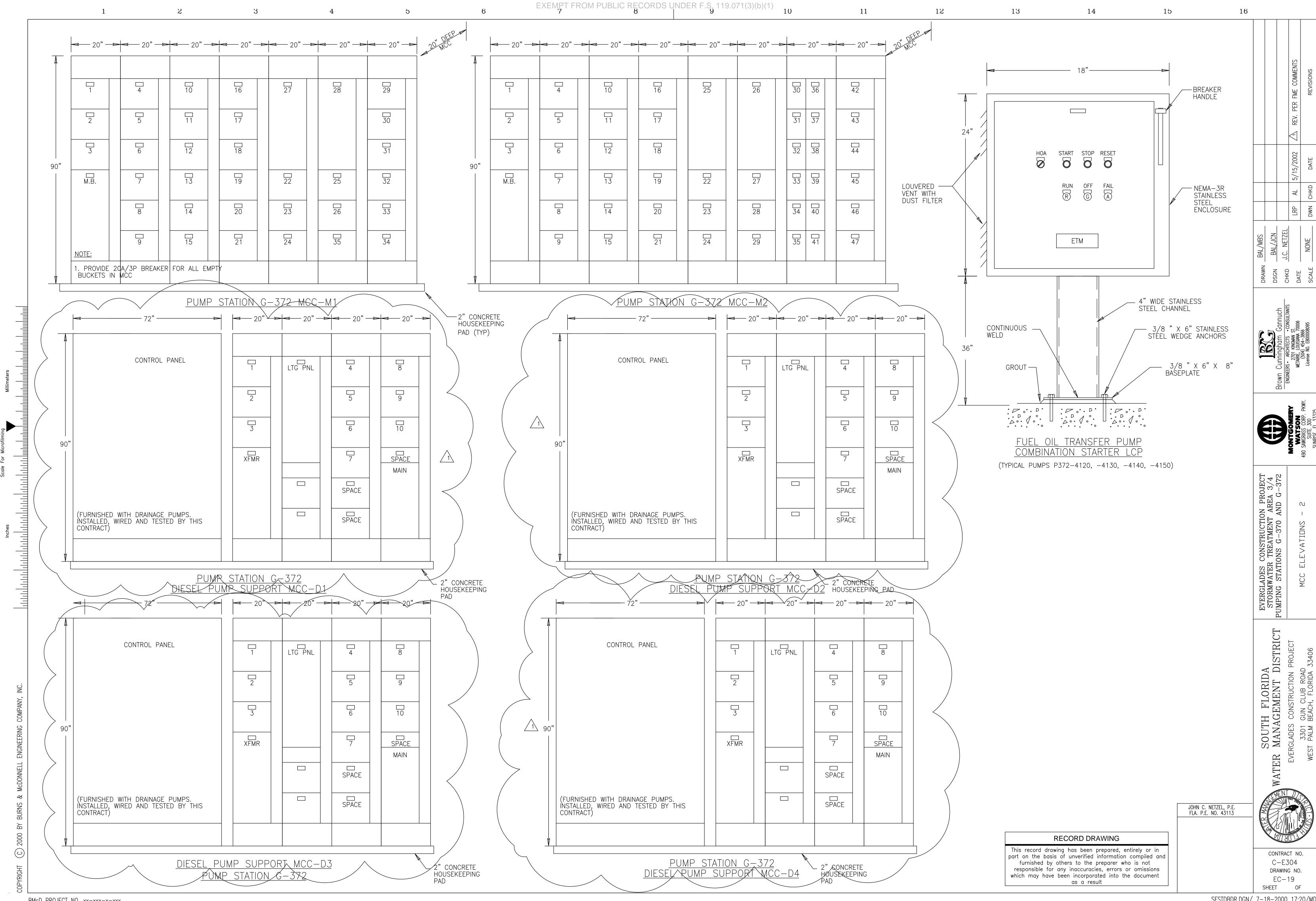
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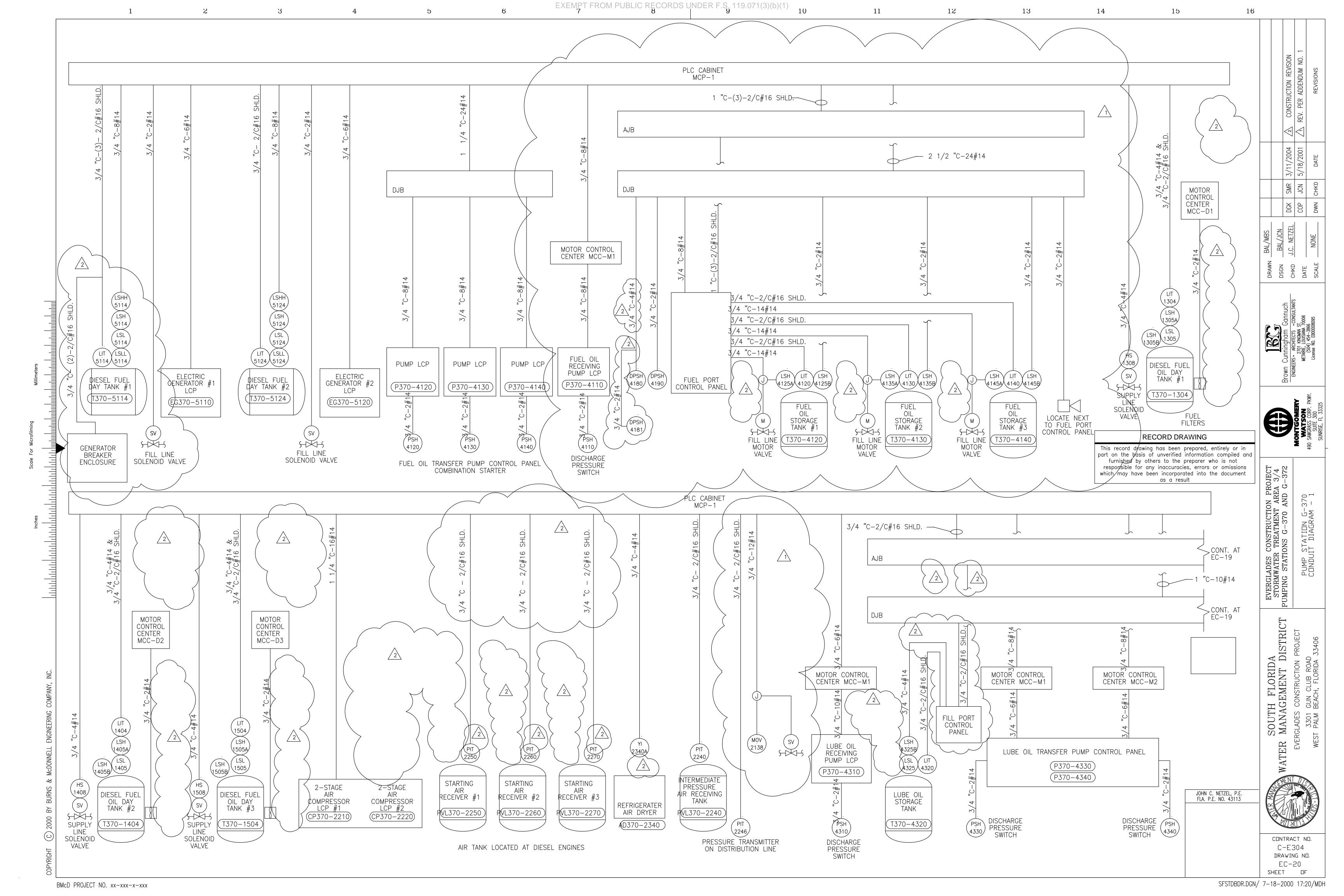
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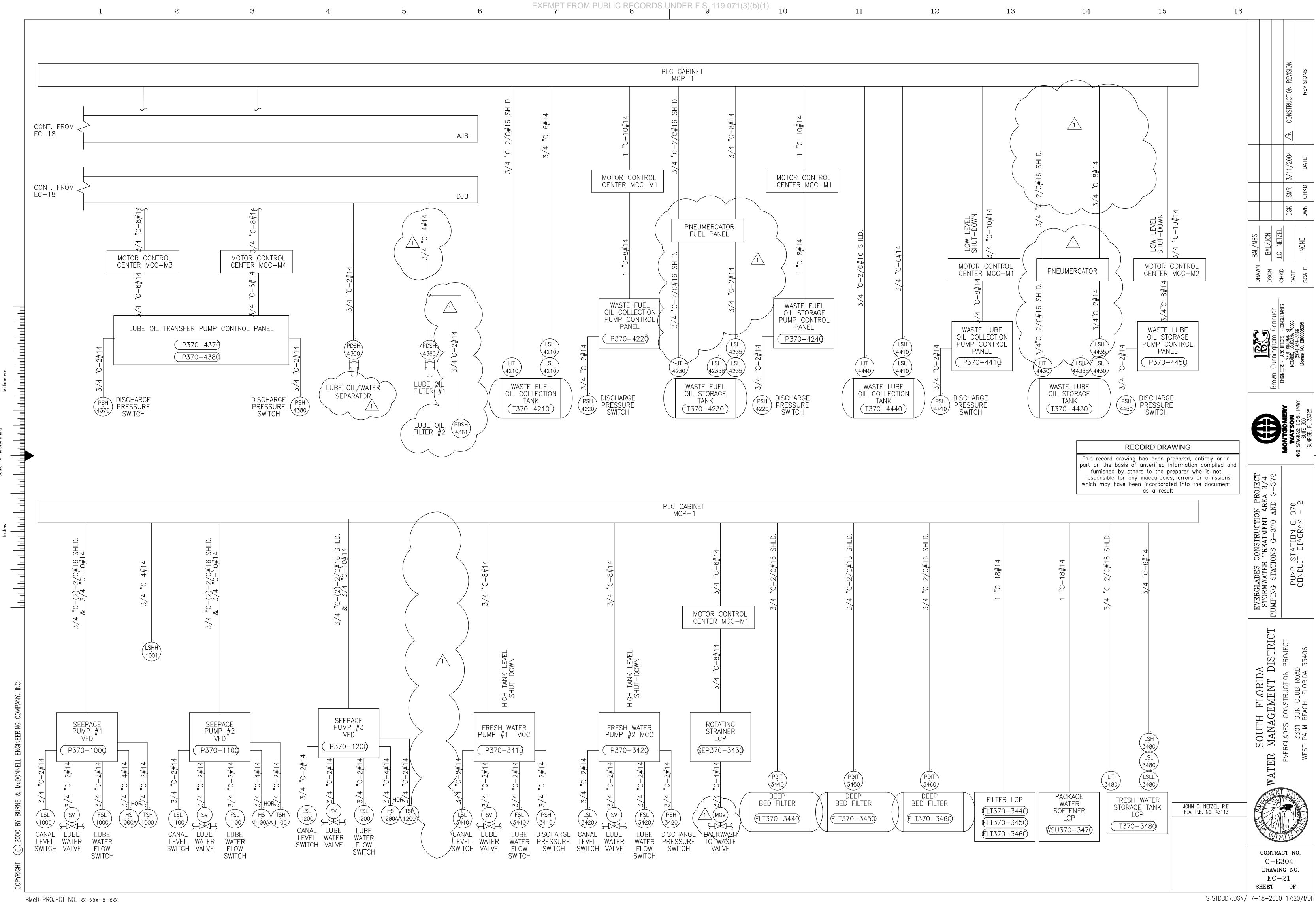


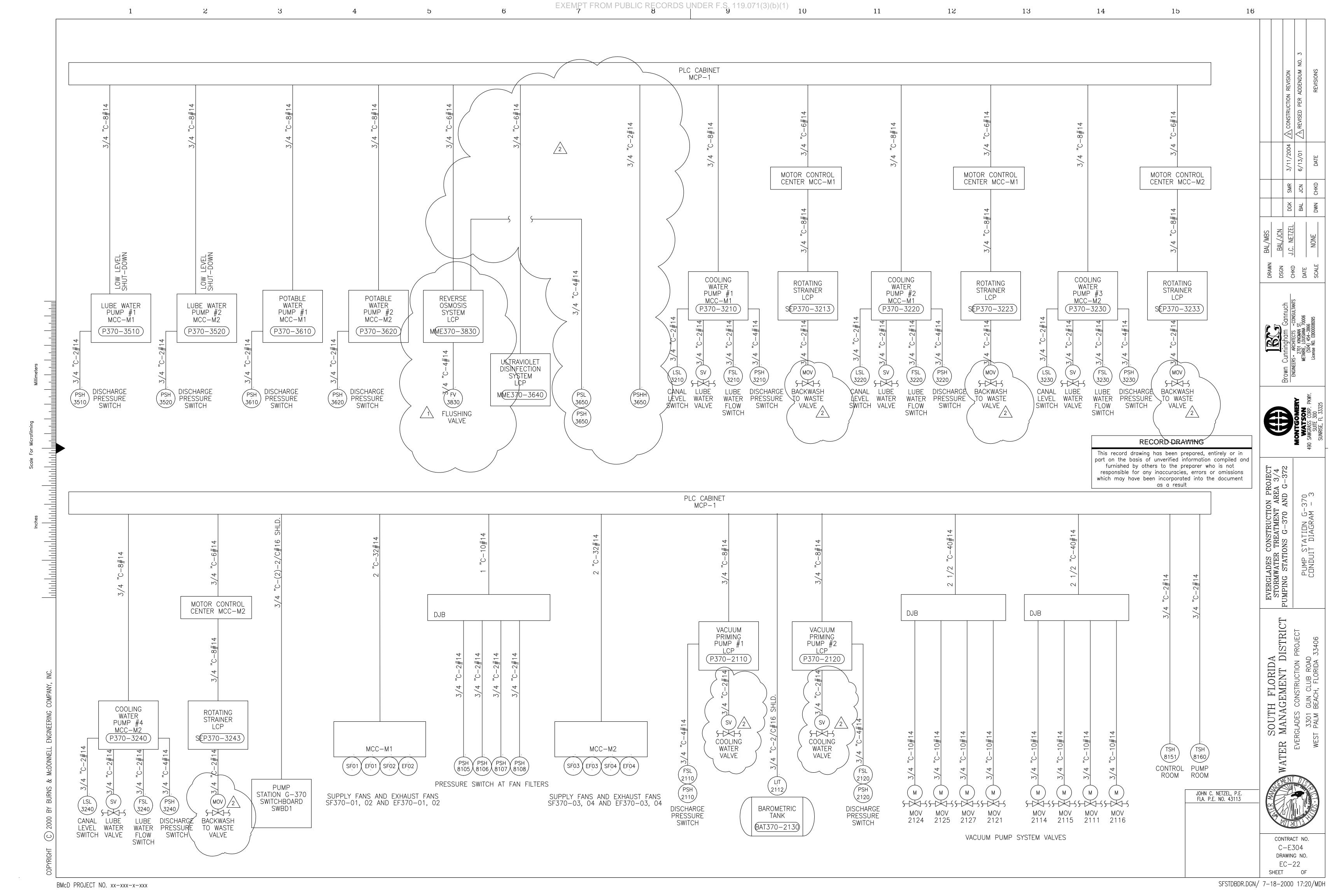


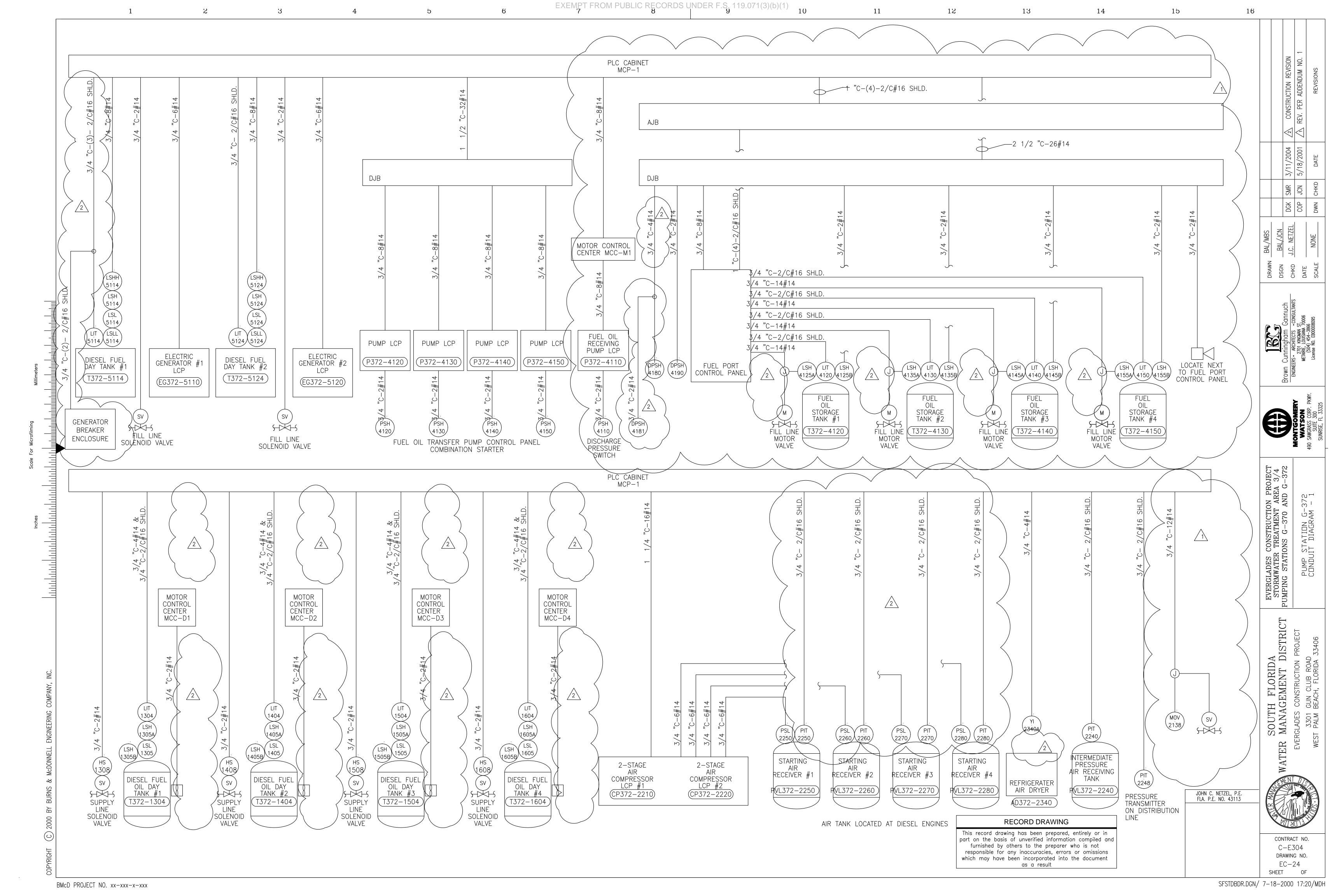


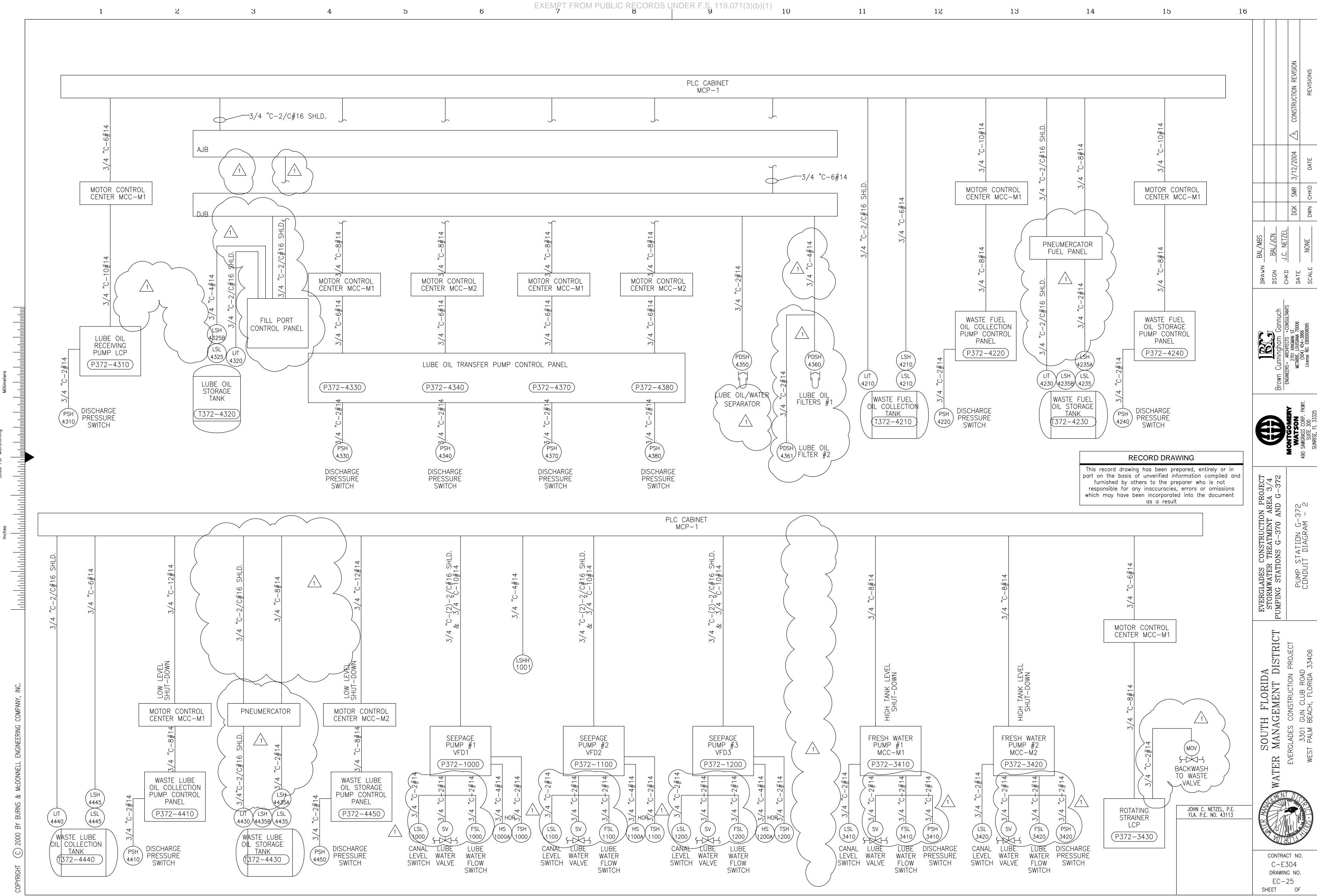


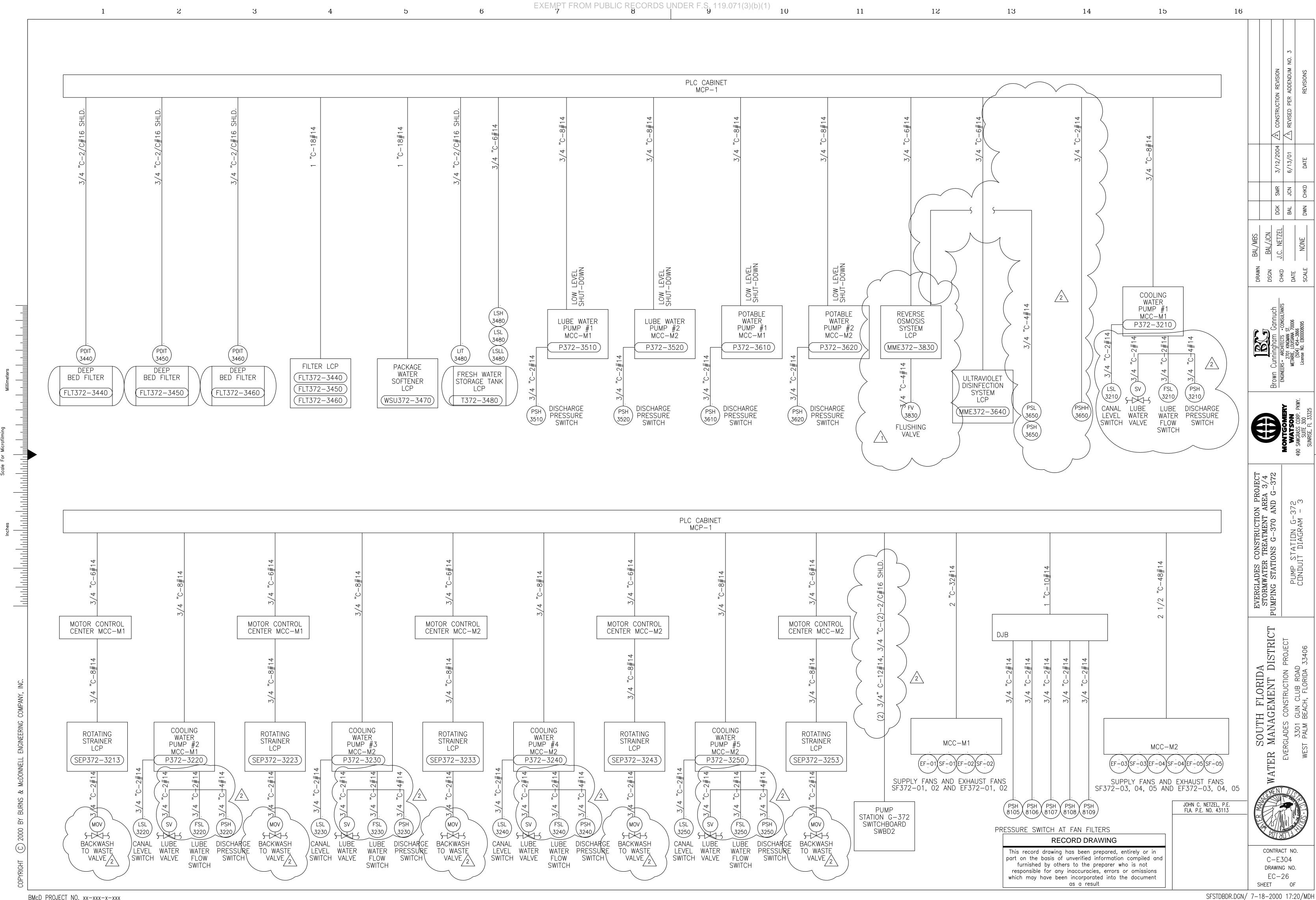


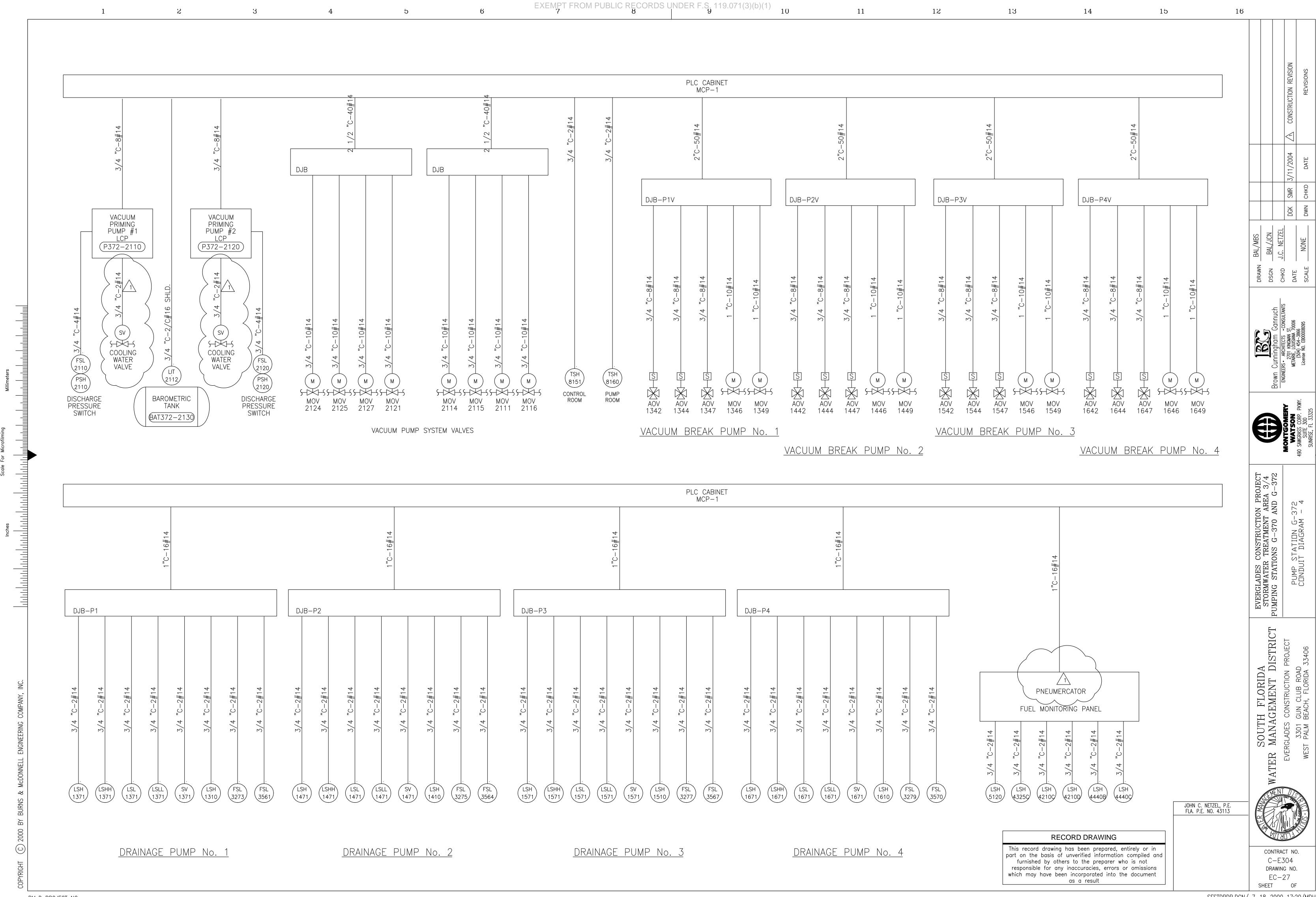


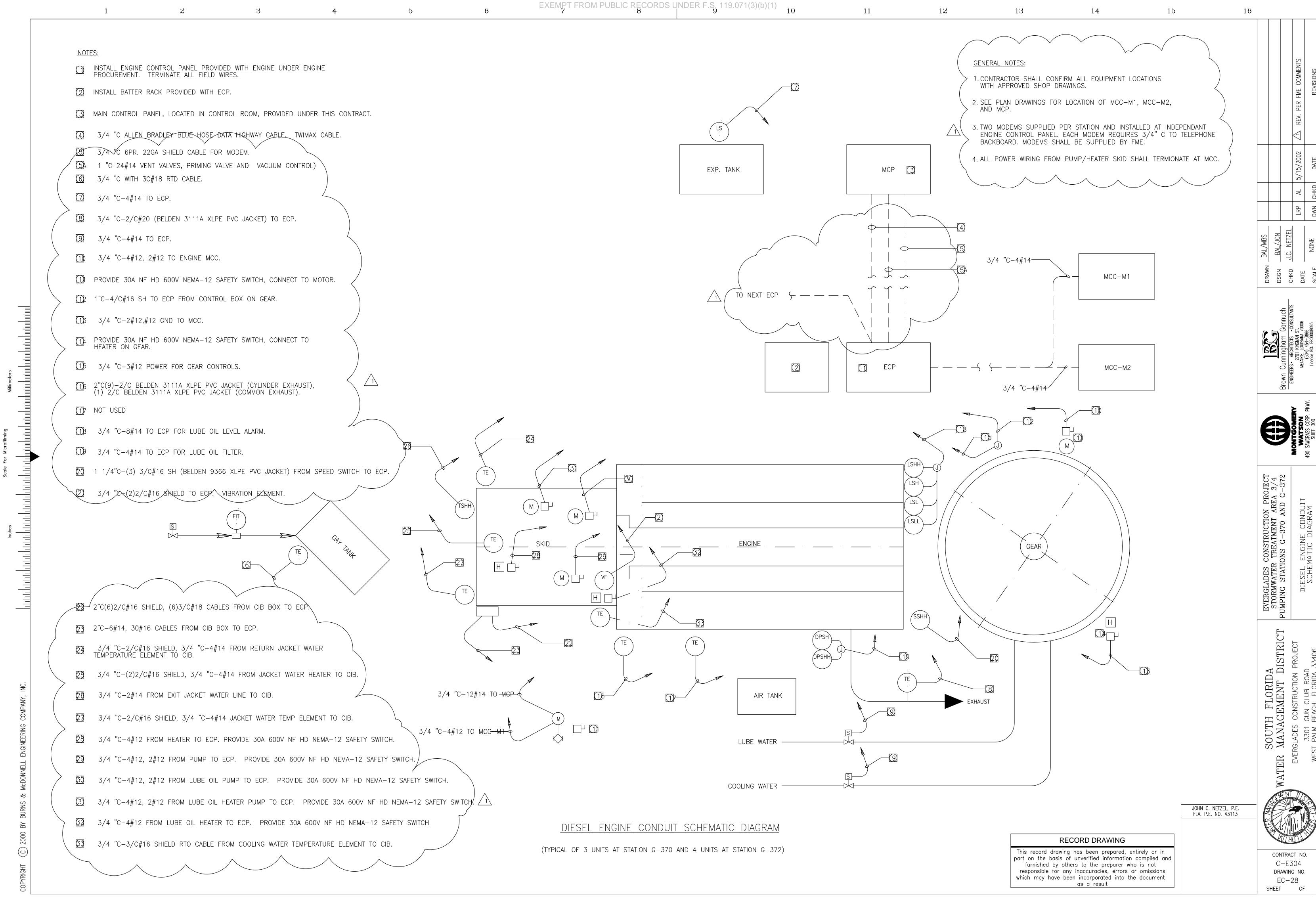


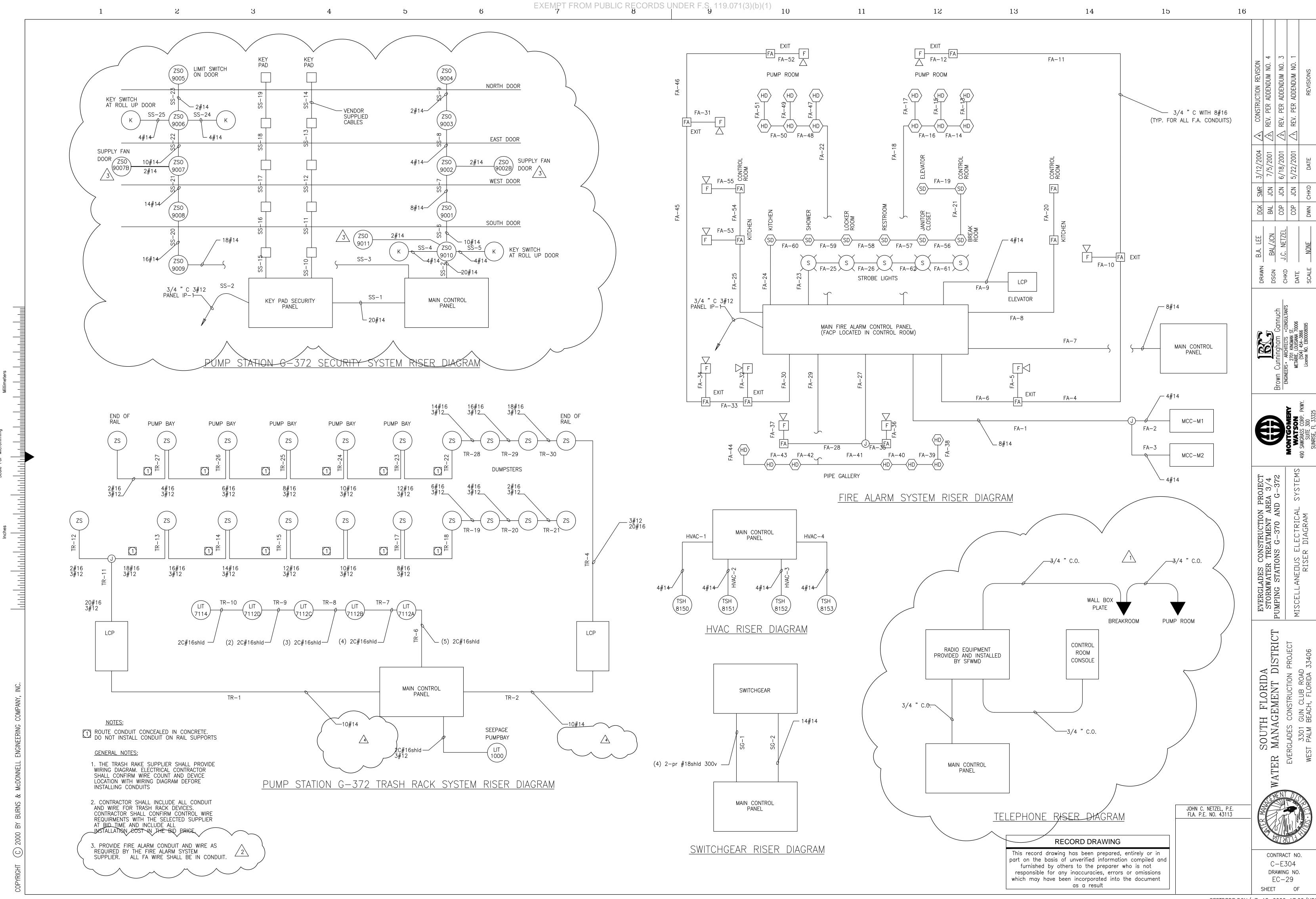












REMARKS

		QIY.	ITPE			
A & AR	250W METAL HALIDE LOW PROFILE HIGH BAY FIXTURE WITH SWING-DOWN SIDE MOUNTED BALLAST, LOW COPPER ALUMINUM HOUSING, AND PRISMATIC BOROSILICATE GLASS REFRACTOR.	1	250W MH	208V	HOLOPHANE ENDURALUME: CATALOG NO. EL-25LMH-20-P4 AND EL-25LMH-20-P4-EM FIXTURES TO BE MOUNTED BETWEEN CEILING TRUSSES	AR — RESTRIKE LAMP, STANDBY FIXTURE FOR TEMPORARY POWER FAILURE PENDANT MOUNT
В	250W HIGH PRESSURE SODIUM FLOODLIGHT WITH ENERGY SAVING BALLAST, STAINLESS STEEL YOKE MOUNT AND 30' ALUMINUM ROUNDTAPERED POLE	1	250W MH	208V	HOLOPHANE MEDIUM PREDATOR: CATALOG NO. PF-25LHP-20-B-N-3-B-PDPR-ALRT30J/1/1	ALL SPOTLIGHTS SHALL BE CONTROLLED BY SAME PHOTO CONTROL. ALL POLES SHALL HAVE 120V WP/GFI DUPLEX RECEPTACLE
С	LOW BRIGHTNESS, HIGH EFFICIENCY FLUORESCENT FIXTURE WITH CLEAR ACRYLIC WRAP AROUND LENS	3	3-32W T8	120V	HOLOPHANE HW SERIES WRAP-AROUND: CATALOG NO. HW-T-M-4-D-S-H24-043-LP-1-1.	SURFACE MOUNT
D	1000W HPS FLOOD LIGHT WITH STAINLESS STEEL YOKE, BRONZE FINISH AND PHOTO—CONTROL.	1	1000W HPS	208V	HOLOPHANE LARGE PREDATOR: CATALOG NO. PL-C10HP-20-K-3-B-PS-PDPR	MOUNT ON PARAPET SHALL WITHSTAND 110 MPH WIND LOADS (PER S. FL BUILDING CODE)
E	SEMI-RECESSED EXIT LED EXIT SIGN, WITH EMERGENCY NI-CAD BATTERY	1	8W	120V	HOLOPHANE MAGELLAN SR2: CATALOG NO. MS2-SP-L-B-EA-R-3	SURFACE MOUNT ABOVE DOOR
F1	NEMA RATED INDUSTRIAL EMERGENCY LIGHT WITH NI—CAD BATTERY	2	2-12W	120V	HOLOPHANE DESOTO M50: CATALOG NO. DM5-N-25-12-2-WL	SURFACE MOUNT
F2	ARCHITECTURAL EMERGENCY LIGHT WITH NI-CAD BATTERY	2	2-25W	120V	HOLOPHANE CORTEZ A1 : CATALOG NO. C1-12N-25-W-2	SURFACE MOUNT
G & GR	ENCLOSED AND GASKETED FLUORESCENT FIXTURE UL LISTED FOR WET LOCATIONS	2	2-32W T8	120V	HOLOPHANE ES SERIES: CATALOG NO. ES-T-X-BBB-042-LP-1-1	AR — RESTRIKE LAMP, STANDBY FIXTURE FOR TEMPORARY POWER FAILURE SURFACE MOUNT TO CEILING
Н	GENERAL PURPOSE INDUSTRIAL FLUORESCENT FIXTURE	3	3-32W T8	120V	HOLOPHANE SM SERIES: CATALOG NO. SM-T-X-NHH-U-043-LP-1-1	SURFACE MOUNT IN MECHANICAL WORKROOM
J	2' X 4' RECESSED TROFFER FLUORESCENT FIXTURE WITH ALUMINUM FRAME, HOLOPHANE 8224 DIFFUSER FOR COMPUTER APPLICATIONS, AND INBOARD/OUTBOARD SWITCHING	3	3-32W T8	120V	HOLOPHANE TG SERIES: CATALOG NO. TG-H-24-X-N-H24-O43-LP-2-1	MOUNT IN CEILING TILE GRID
K	WALL MOUNTED HIGH PRESSURE SODIUM FIXTURE. SHALL HAVE WEATHER RESISTANT COPPER-FREE HEAVY DUTY ALUMINUM HOUSING WITH DARK BRONZE TGIC FINISH. FIXTURE SHALL HAVE PRISMATIC GLASS REFRACTOR, AND BE UL LISTED FOR WET LOCATIONS.	1	150W HPS	208V	KIM CATALOG NO. WD14D2/150HPS208/DB-KYNAR-500-A32, OR EQUAL	WALL MOUNT
L	HIGH PRESSURE SODIUM SITE LIGHTING WITH BRONZE PAINT FINISH, REPLACEMENT PROTECTED STARTER, DOUBLE FUSE ASSEMBLY, PHOTOCONTROL, AND 30' SQUARE STRAIGHT ALUMINUM POLE		250W HPS	208V	HOLOPHANE SOMERSET: CATALOG NO. SMSTL1A-250HP- 20-BZ-PM-PS-F2-CAZSQ30J/1A/R.	IES TYPE II DISTRIBUTION
M1	HIGH PRESSURE SODIUM SITE LIGHTING WITH BRONZE PAINT FINISH, REPLACEMENT PROTECTED STARTER, DOUBLE FUSE ASSEMBLY, PHOTOCONTROL, AND 30' SQUARE STRAIGHT ALUMINUM POLE		400W HPS	208V	HOLOPHANE SOMERSET: CATALOG NO. SMSTL1A-400HP- 20-BZ-PM-PS-F2-CAZSQ30J/1A/R.	IES TYPE III DISTRIBUTION
M2	HIGH PRESSURE SODIUM SITE LIGHTING WITH BRONZE PAINT FINISH, REPLACEMENT PROTECTED STARTER, DOUBLE FUSE ASSEMBLY, PHOTOCONTROL, AND 30' SQUARE STRAIGHT ALUMINUM POLE, TWO FIXTURES PER POLE		400W HPS	208V	HOLOPHANE SOMERSET: CATALOG NO. SMSTL2A-400HP- 20-BZ-PM-PS-F2-CAZSQ30J/2A/R.	BOTH FIXTURES SHALL HAVE IES TYPE III DISTRIBUTION; BOTH FIXTURES SHALL AIM IN THE SAME DIRECTION
				•		

LIGHTING FIXTURE SCHEDULE

MANUFACTURER CATALOG NO.

LAMPS

QTY. TYPE

DESCRIPTION

TYPE

SOUTH FLORIDA
FER MANAGEMENT DISTRICT
EVERGLADES CONSTRUCTION PROJECT
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

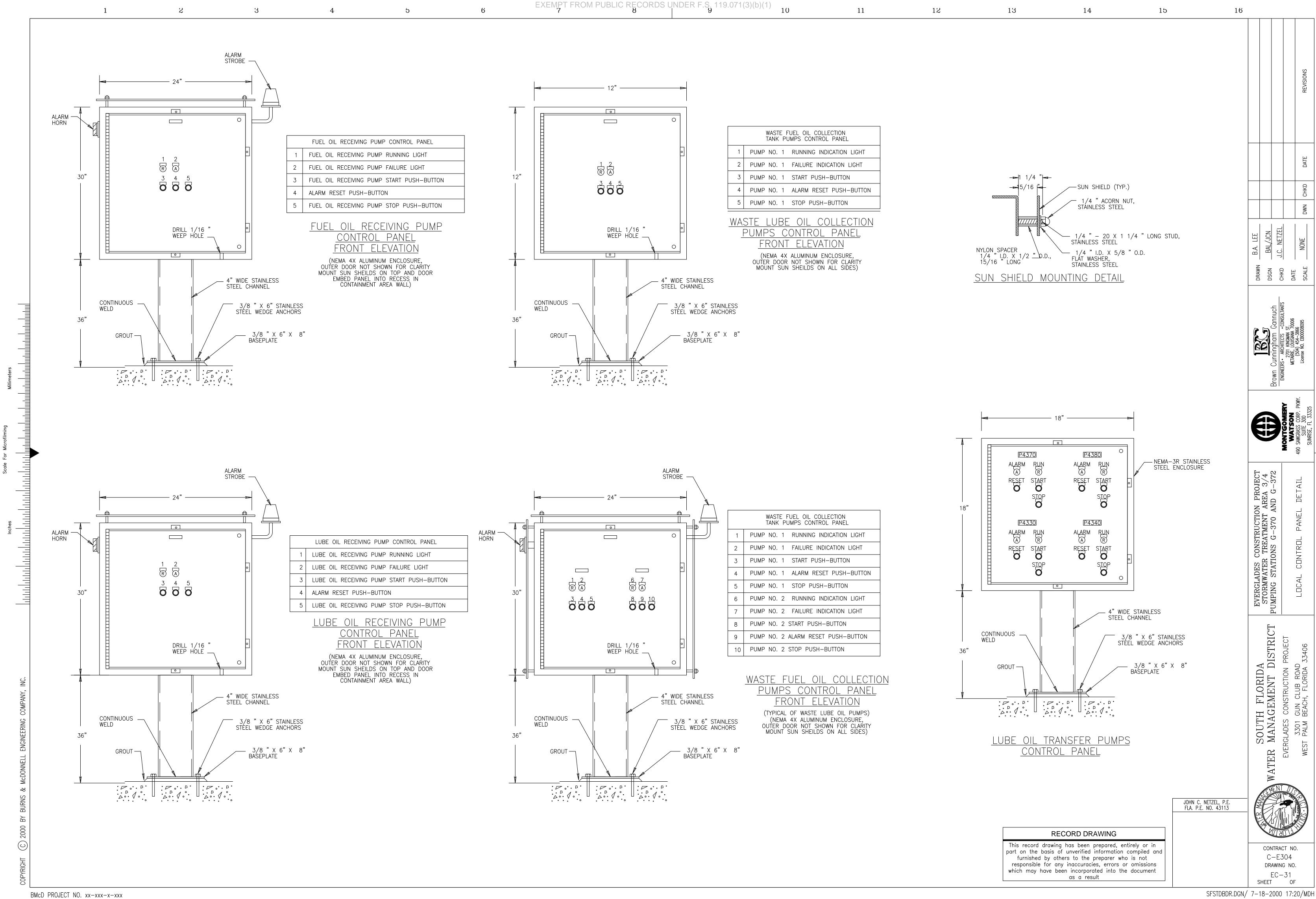
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CONTRACT NO. C-E304 DRAWING NO. EC-30 SHEET OF



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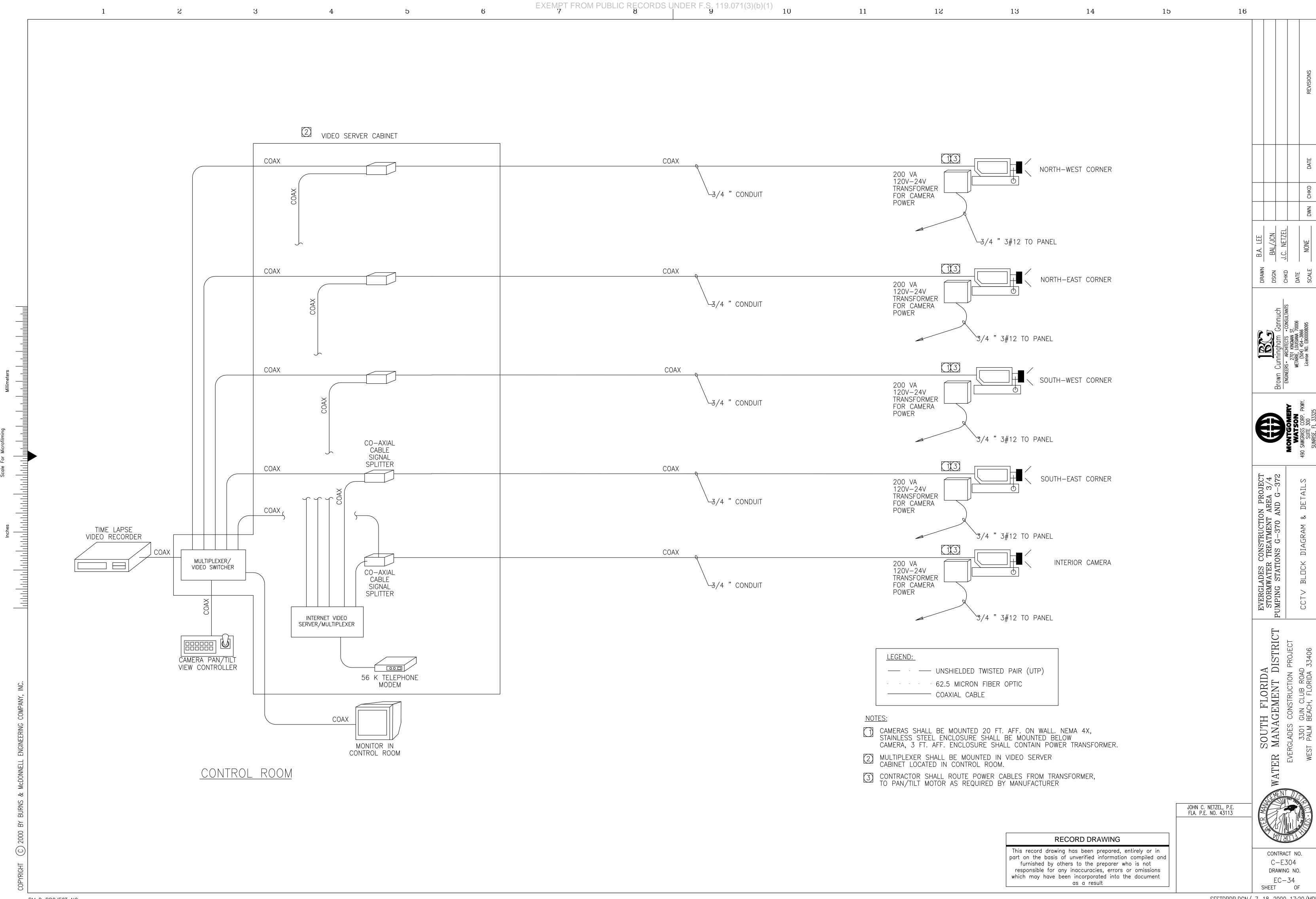
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480-277 VOLTS	3 p	4_ W) V				<u>-</u> R				FEED BOTTOM	
125 A, MCB MAIN LOCATION EL 31 S.E. CORNER MTG SURFA														MTG SURFACE						
LOAD DESCRIPTION	ΦA				REC	MIS	CIR	BKR			BKR	CIR	MIS	REC	LTG	ΦA	DB	ФC	LOAD DESCRIPTION	
MOV 370 2113	582					1	1	20	+	+	- 20	2				582			MOV 370 4121	
		582					3]+		-	4					582			
A			582				5]+	+	-	6						582	V	
MOV 370 2109	582						7	20	 		- 20	8				582			MOV 370 4131	
		582					9]+	+	_	10					582			
7			582				11]+	+	+	12						582	V	
MOV 370 2119	582						13	20	1+		- 20	14				582			MOV 370 4141	
		582					15		1+		-	16					582			
V			582				17		-	+	+	18						582	V	
MOV 370 2123	582	2					19	20	 		- 20	20				582			MOV 370 4151	
		582					21		1+	+	-	22					582			
V			582				23		1+	+	+	24						582	V	
MOV 370 2138	582						25	20	 -		- 20	26				582			MOV 370 1331	
		582					27]+	+	-	28					582			
7			582				29]+	+	+	30						582	A	
SPARE							31	20	 		20	32							SPARE	
SPARE								20			20	34							SPARE	
SPARE							35	20]+	+		36							SPARE	
							37/		<u> </u>		_	\38								
							36]+	+	_	40								
							/ 4 \]+	+	-	42								
	2910	2910 2910 2910			TOTAL TOTAL							ΓAL				2910	2910	2910		
	PH	PHASE TOTAL				TOTAL LOAD														
	5.8K	5.8K 5.8K 5.8K					17.46 KVA (21 AMP)													

NOTE:

1. NEW DRAWING AS PER RFI 117

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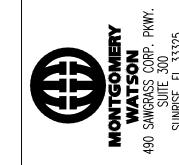
Cunningham Gannuch
NEERS - ARCHITECTS - CONSULTANTS
METARIE, LOUISIANA 70006
(504) 454–3866
License NO. EB00008095
SCALE NONE DWN CHKD DATE

DRAWN B.A. LEE

CHKD J.C. NETZEL

A.C. NETZEL

DWN CHKD DATE



CTION PROJECT
ENT AREA 3/4
170 AND G-372

NG-370

STORMWATER TREATMENT ARI

SOUTH FLORIDA
FER MANAGEMENT DISTRICT
EVERGLADES CONSTRUCTION PROJECT
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

JOHN C. NETZEL, P.E.
FLA. P.E. NO. 43113

CONTRACT NO.

C-E304

DRAWING NO.

EC-35

SHEET OF

480-277 VOLTS 3 0 4 W PANELBOARD MOV VALVE POWER FEED BOTTOM																							
125 A, MCB MAIN LOCATION <u>EL 31 S.W. CORNER</u> MTG <u>SURFACE</u> VOLT AMPERE VOLT AMPERE																							
LOAD DESCRIPTION	VOL	D AMP	₽RE	LTG	REC	MIS	CIR	BKR			В	KR	CIR MIS	REC	LTG	VOL	DAMP DB	DC DC	L	DAD DE	ESCR	RIPTION	
MOV 372 2113	582					1	1	20	+		- 2	20	2			582				MOV	372	4121	
		582					3]+	+	_		4				582						
V			582				5]+	+	-		6					582			V .		
MOV 372 2109	582						7	20	 		- 2	20	8			582				MOV	372	4131	
		582					9		1	+	_		10				582						
7			582				11		1	+	<u>-</u>		12					582			V		
MOV 372 2119	582						13 20				- 2	20	14			582				MOV	372	4141	
		582					15		<u> </u>				16				582						
7			582				17		1	+	-		18					582			\(\)		
MOV 372 2123	582						19	20	<u> </u>		- 2	20	20			582			MOV 372 415			4151	
		582					21		<u> </u>	+	-		22				582						
7			582				23		_	+	-		24					582			<u> </u>		
MOV 372 2138	582						25	20	 		- 2	20	26			582				MOV	372	1331	
		582					27		1	+	_		28				582						
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NOTE:

EXEMPT FROM PUBLIC RECORDS UNDER F.S. 119.071(3)(b)(1) 10

1. NEW DRAWING AS PER RFI 117

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RECORD DRAWING

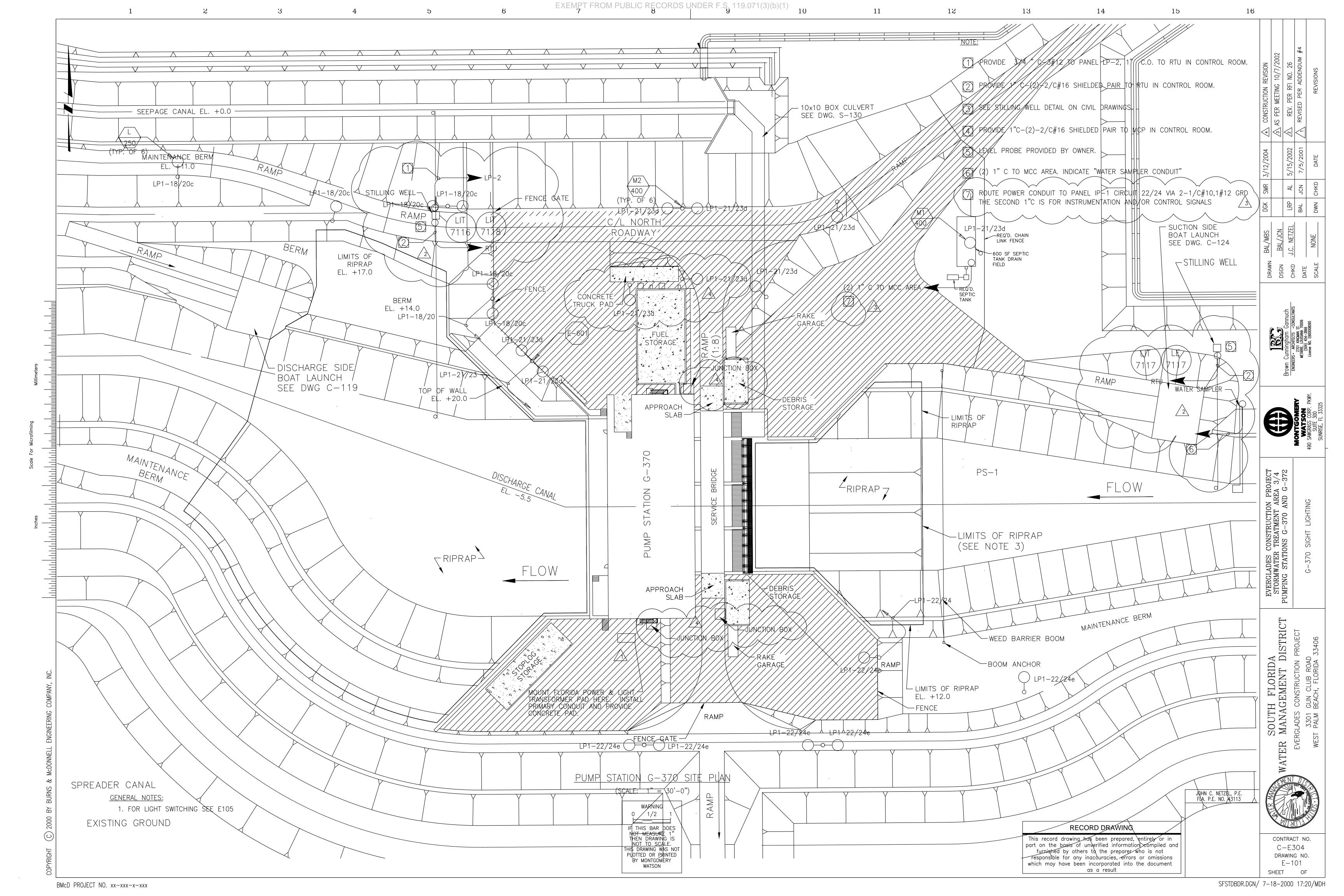
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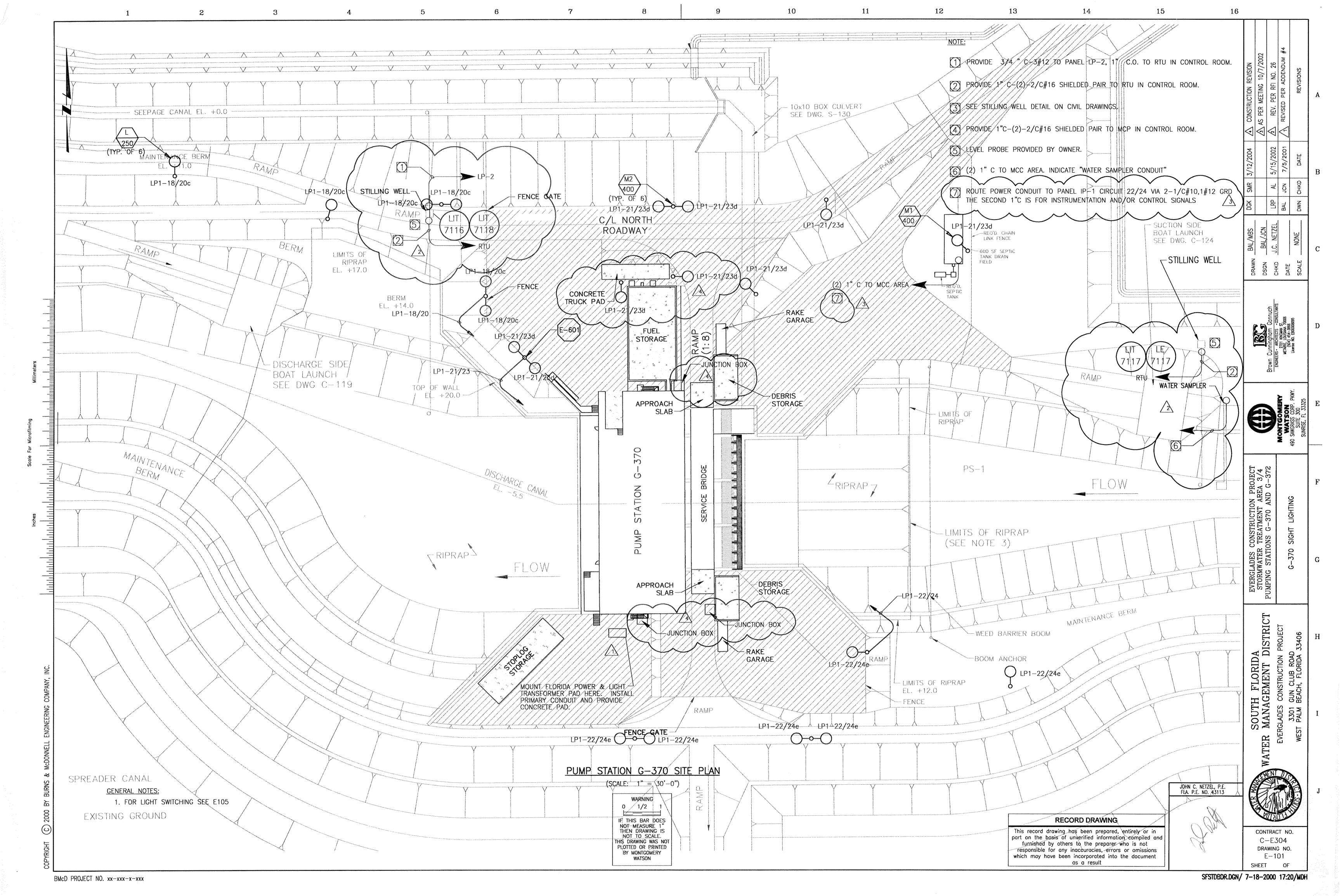
JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113 CONTRACT NO.

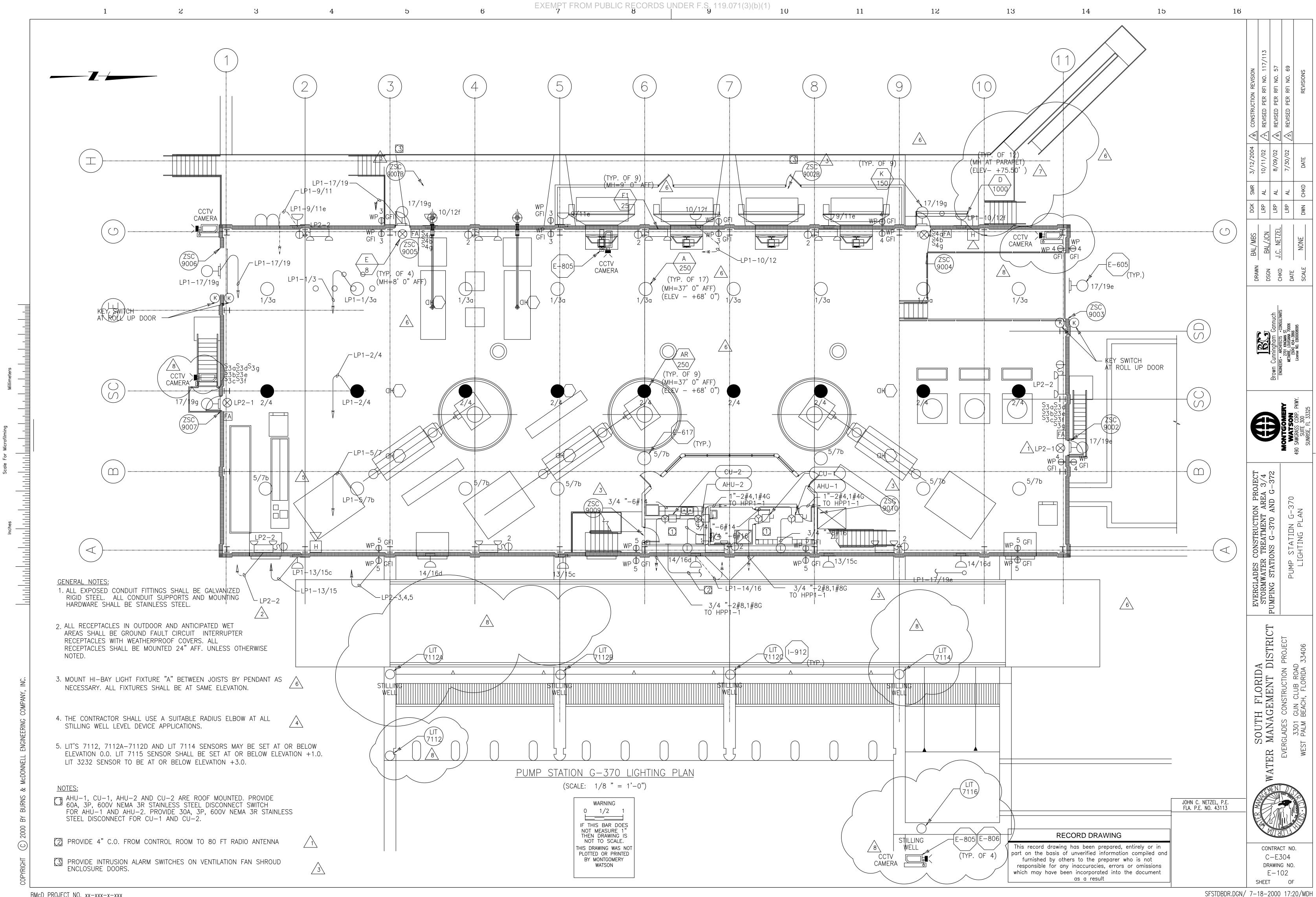
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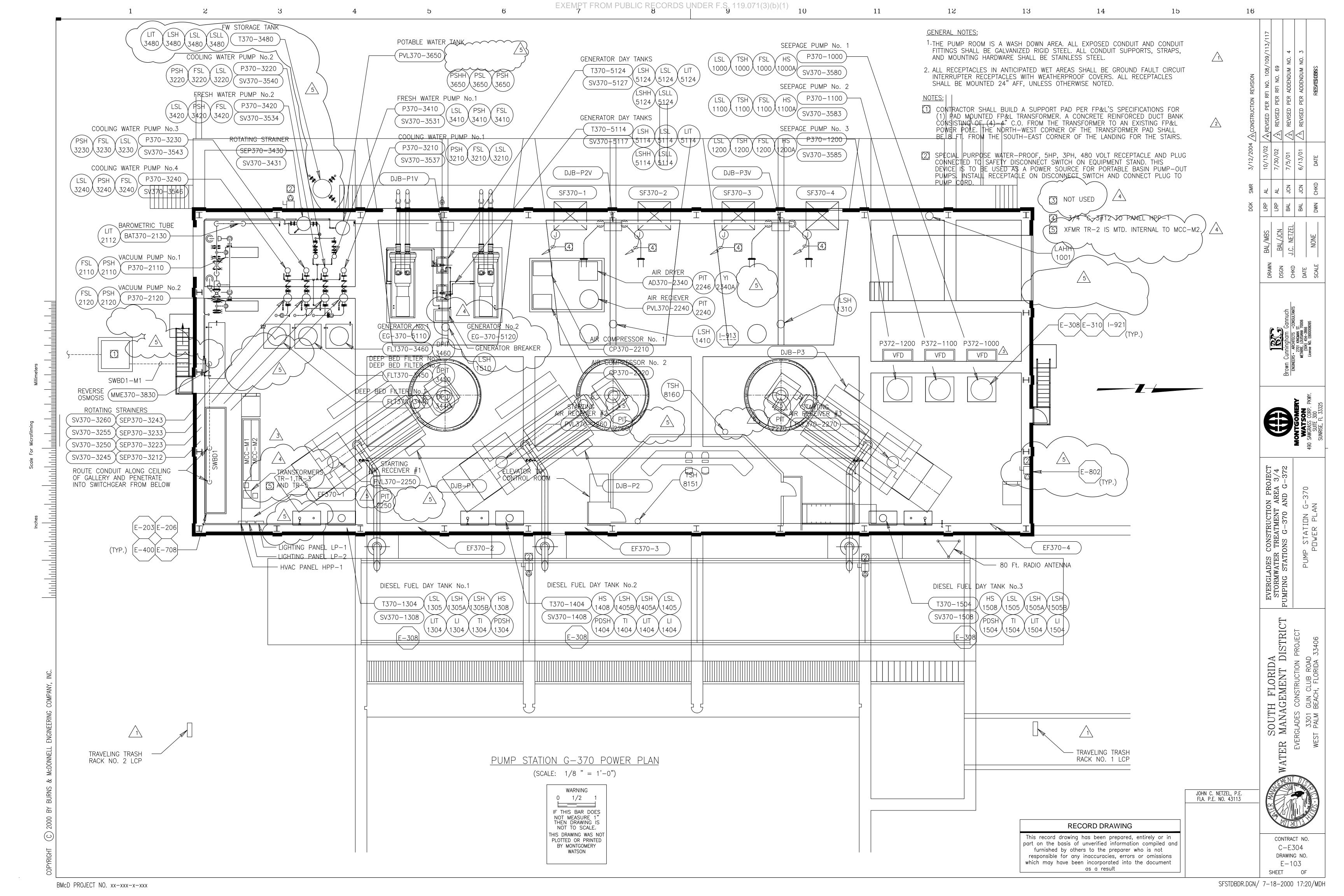
SOUTH FLORIDA
FER MANAGEMENT DISTRICT
EVERGLADES CONSTRUCTION PROJECT
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

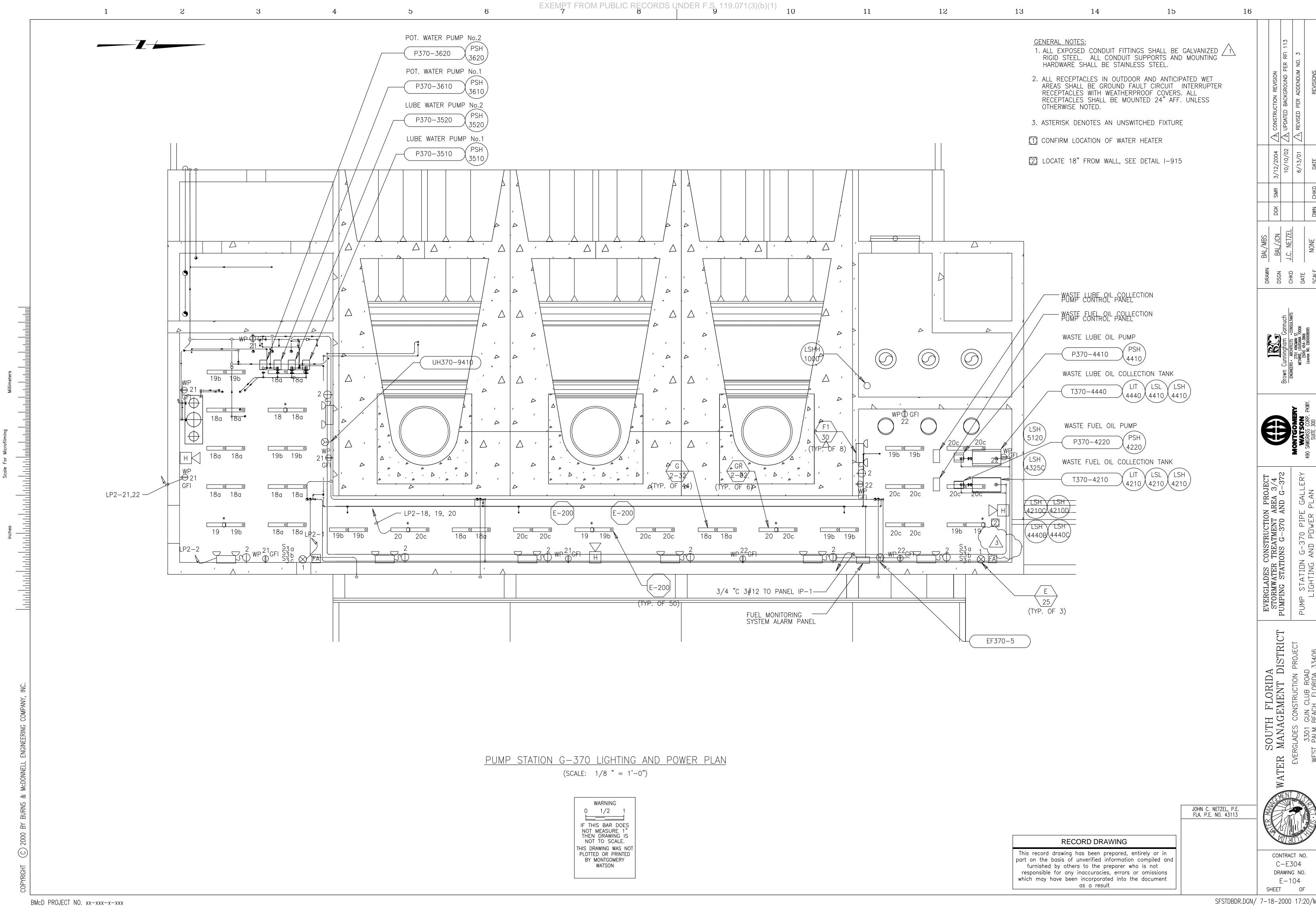
STATION G-372 L SCHEDULE - 2

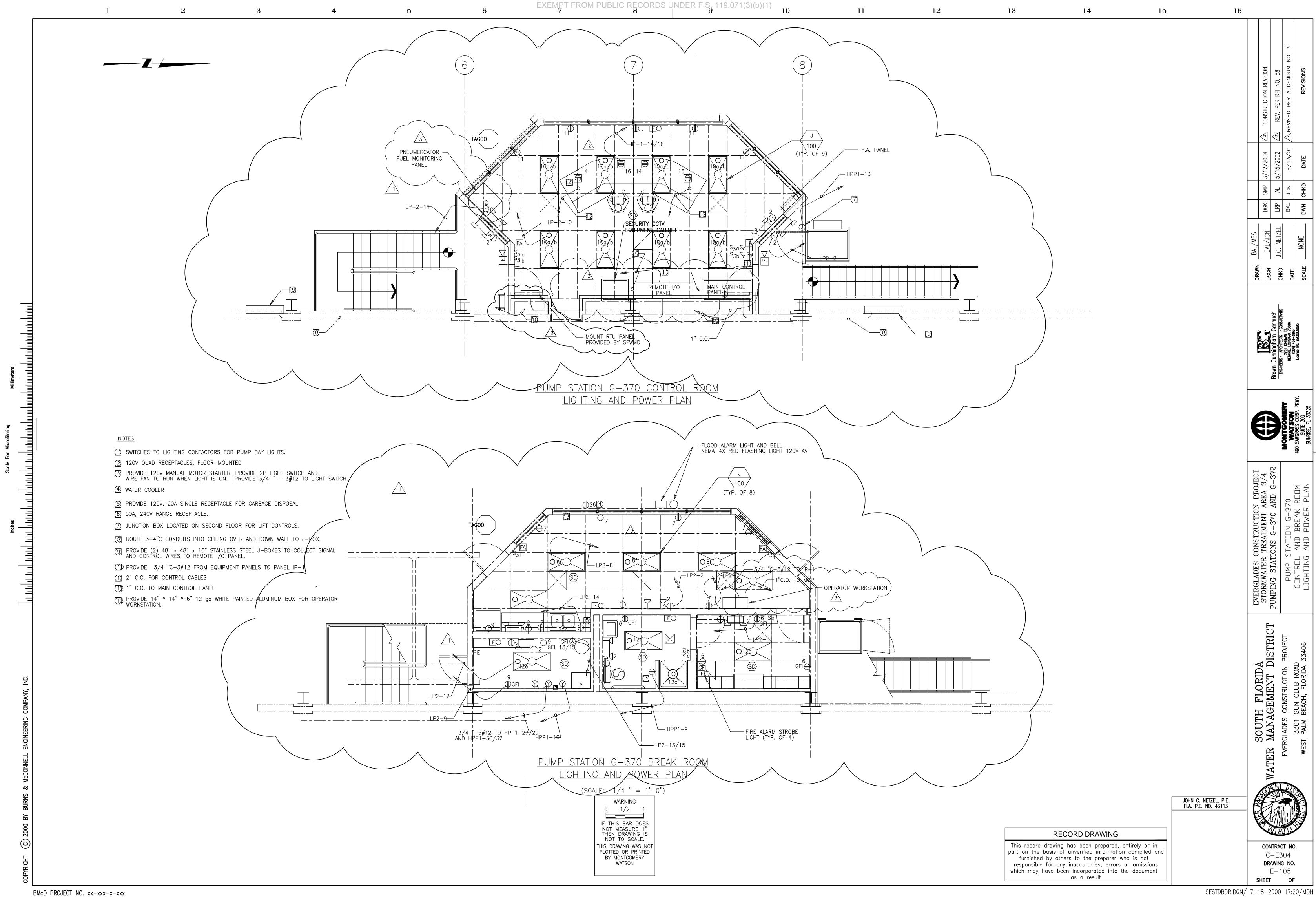


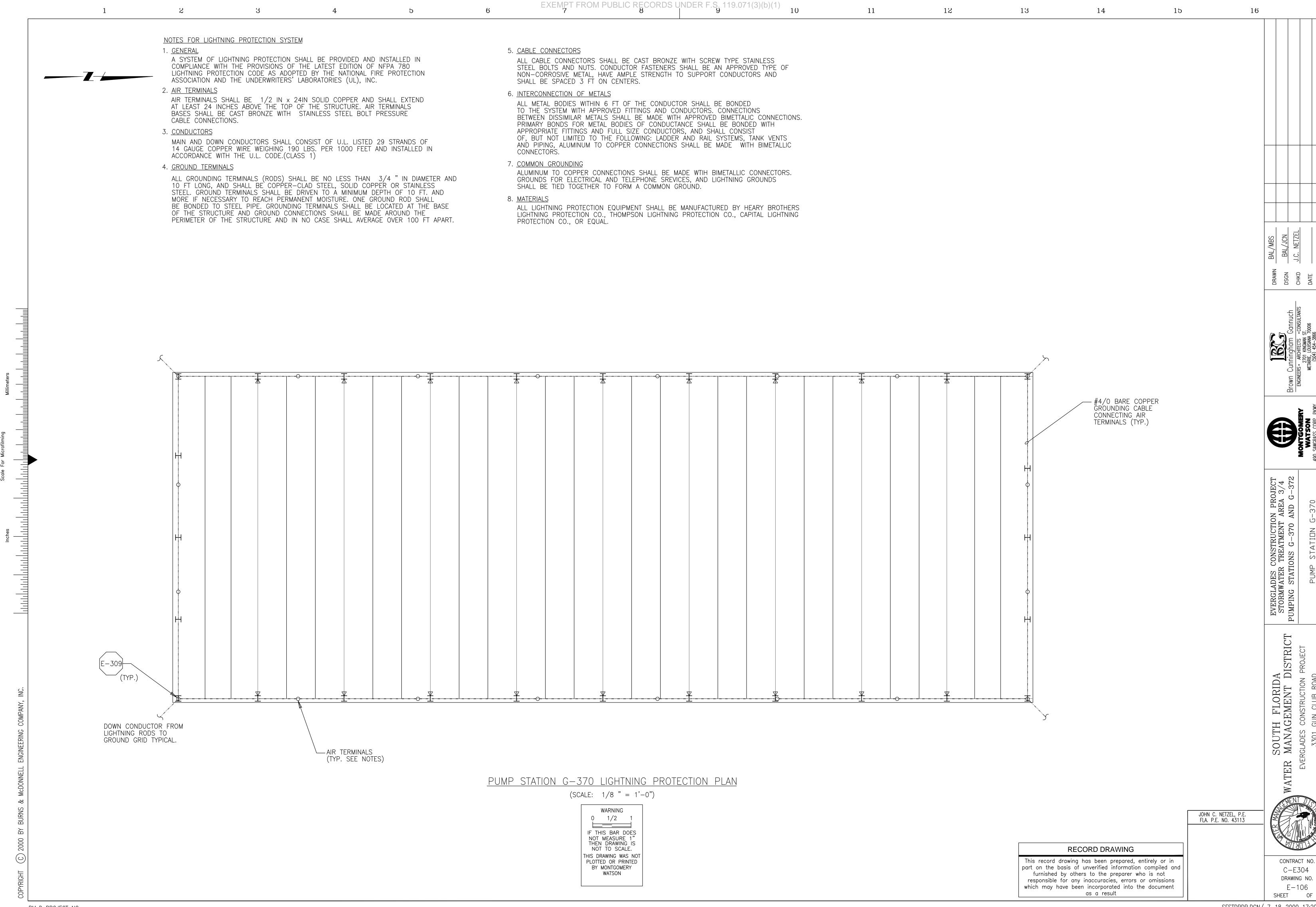


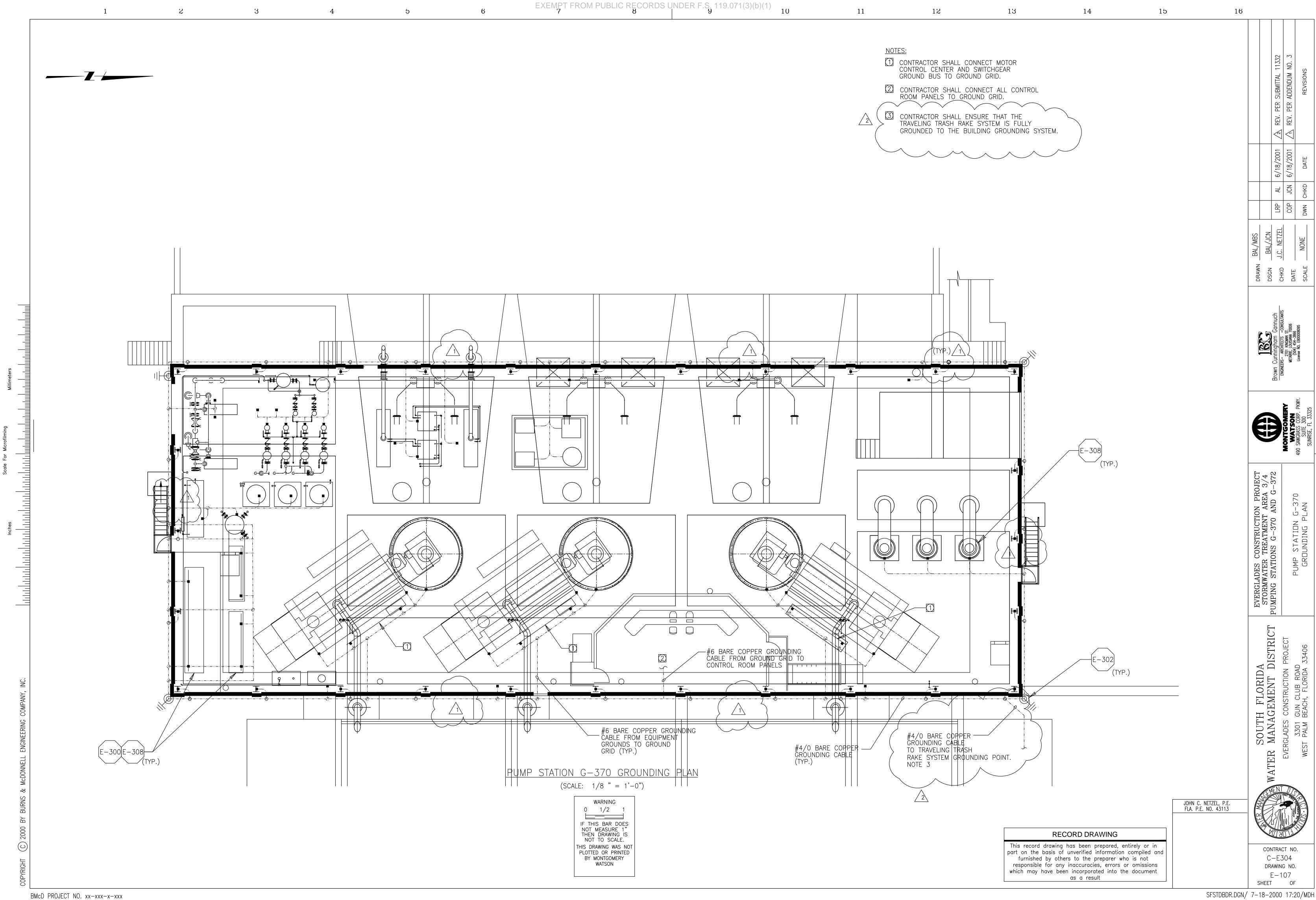


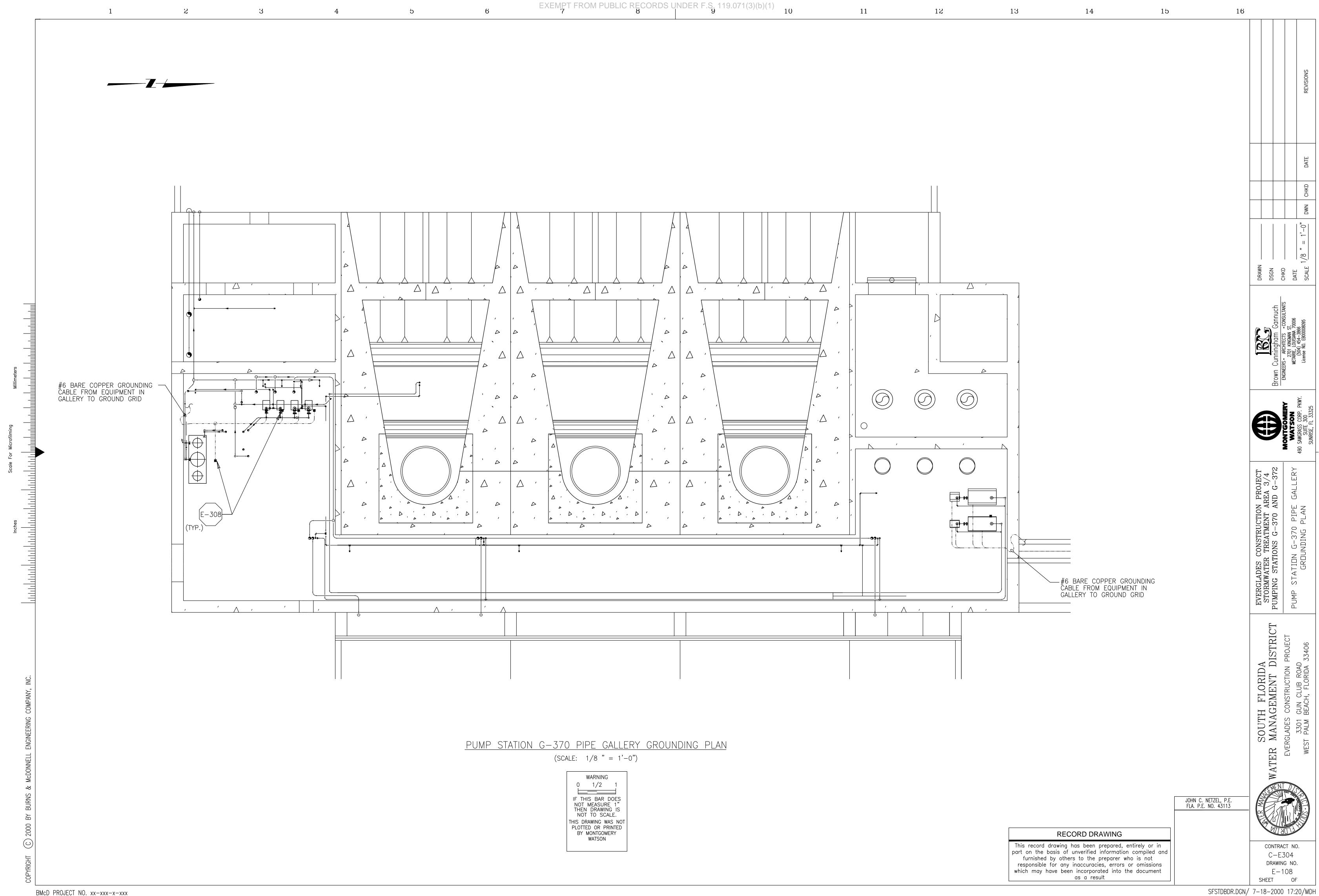


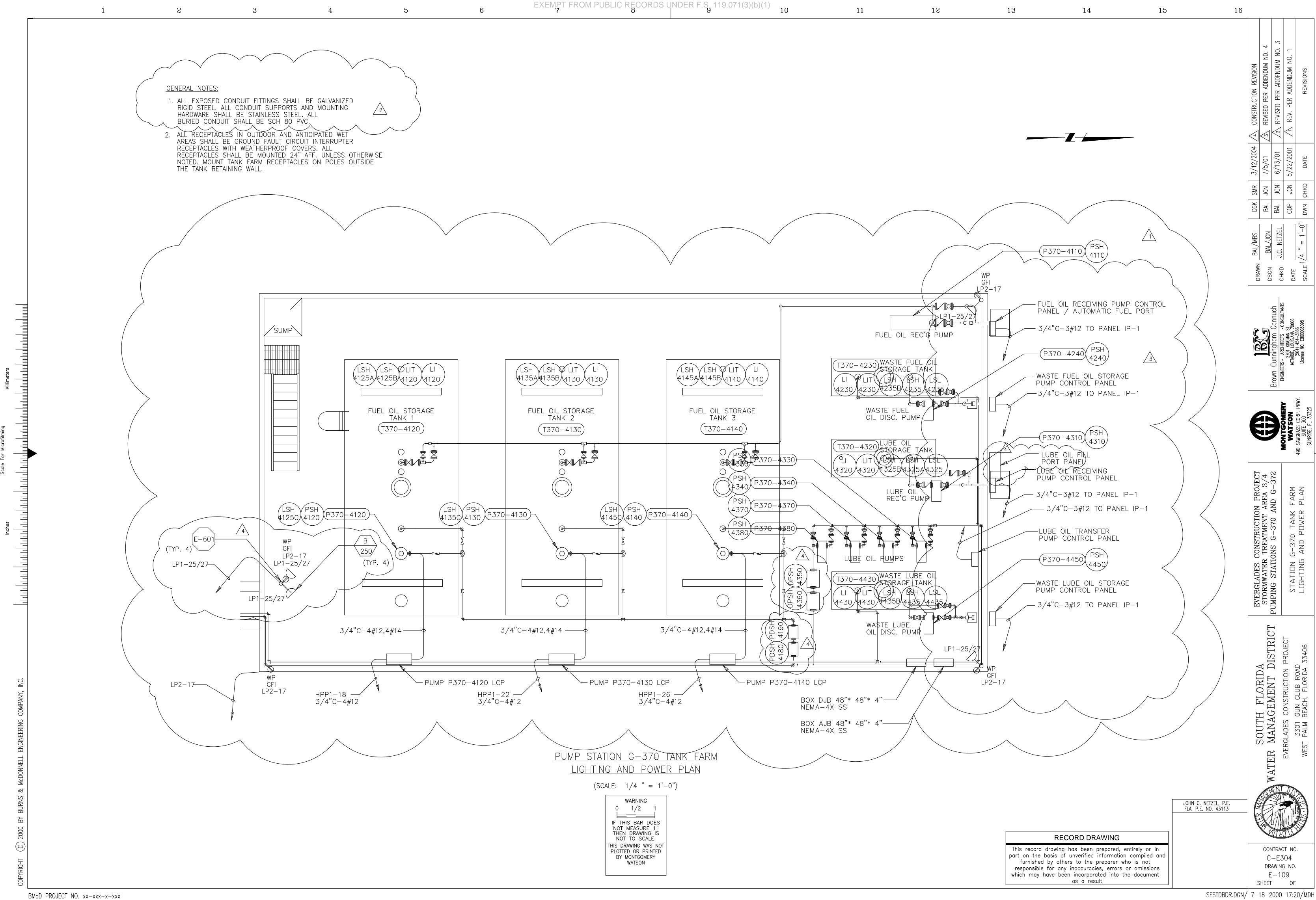


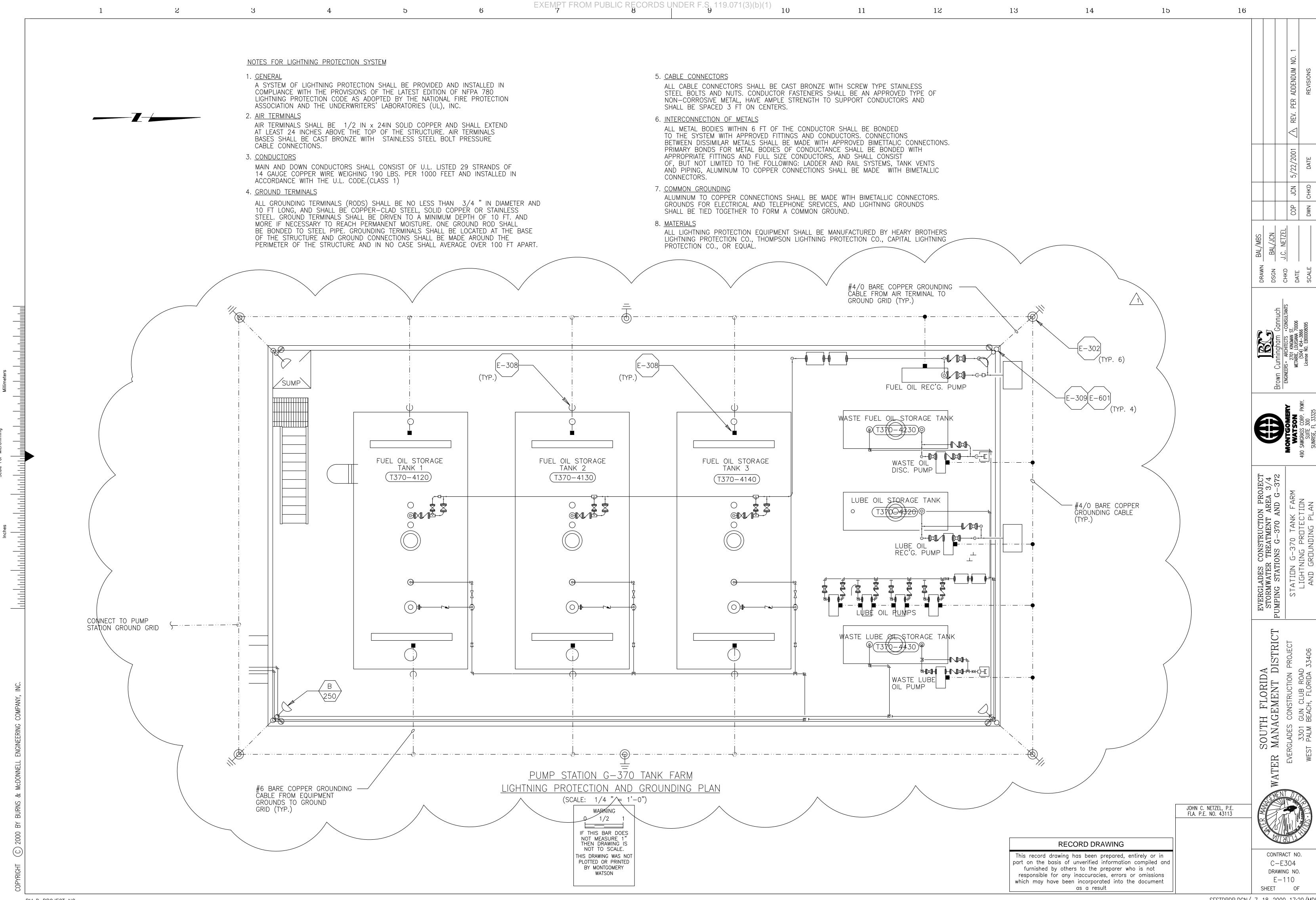


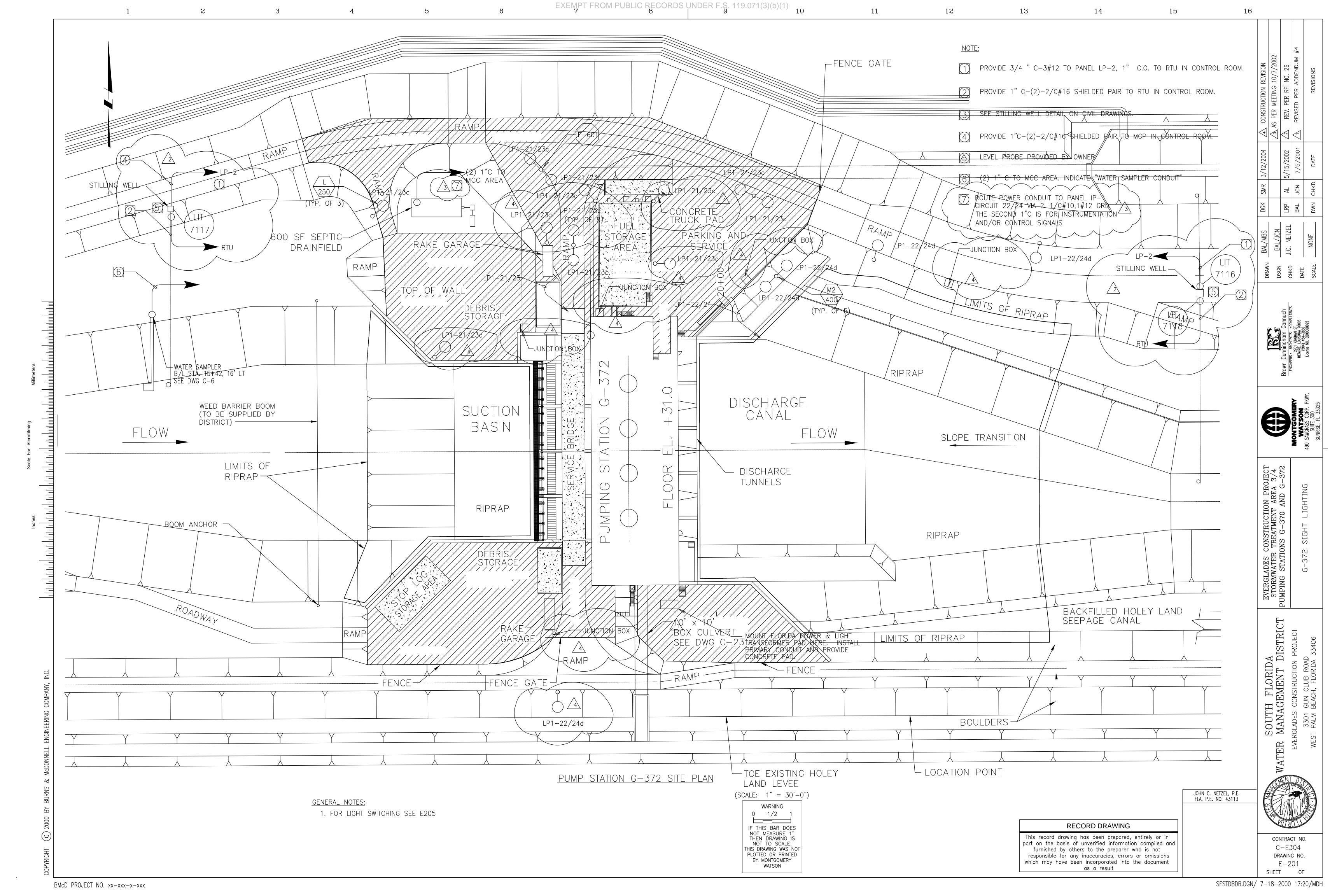


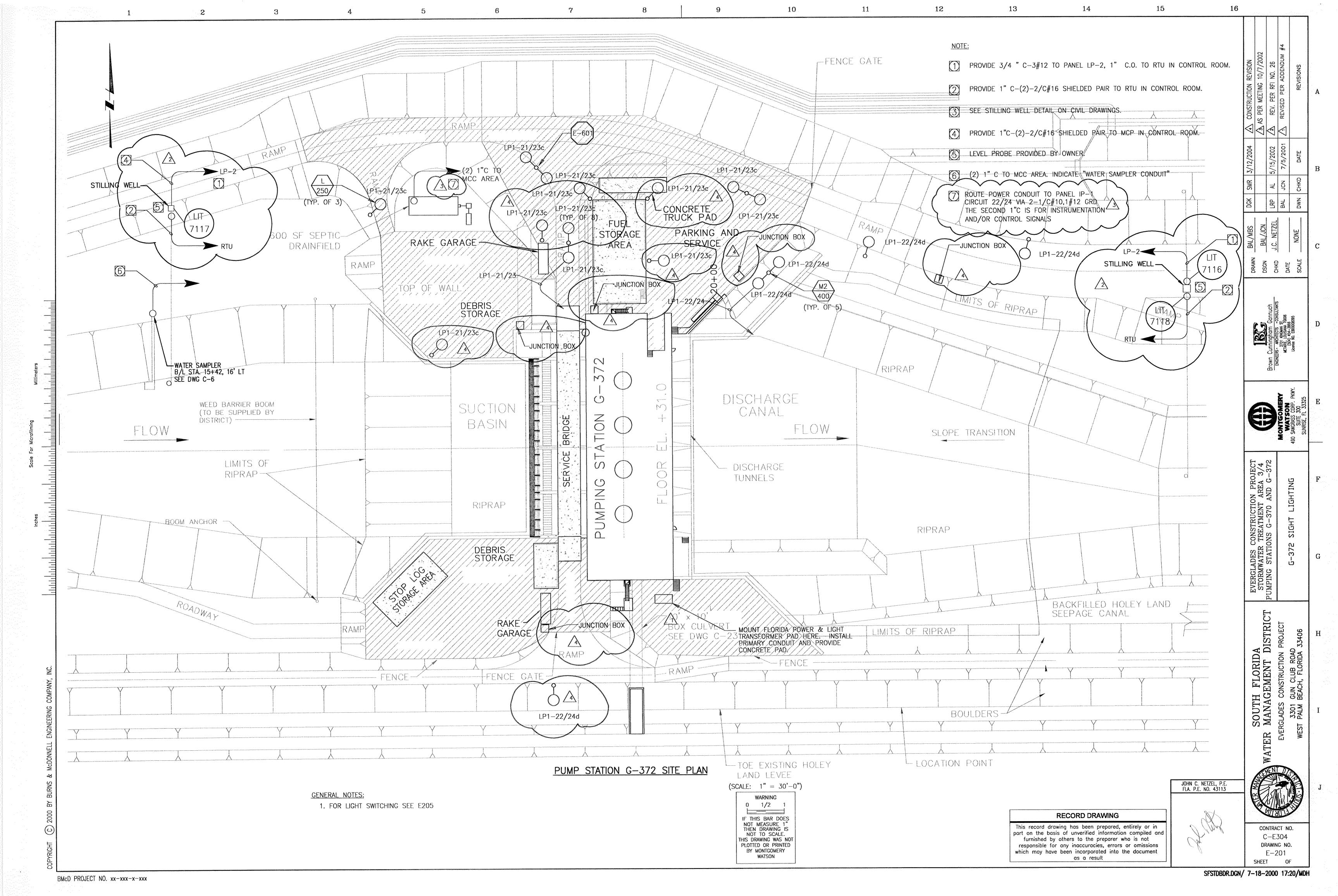


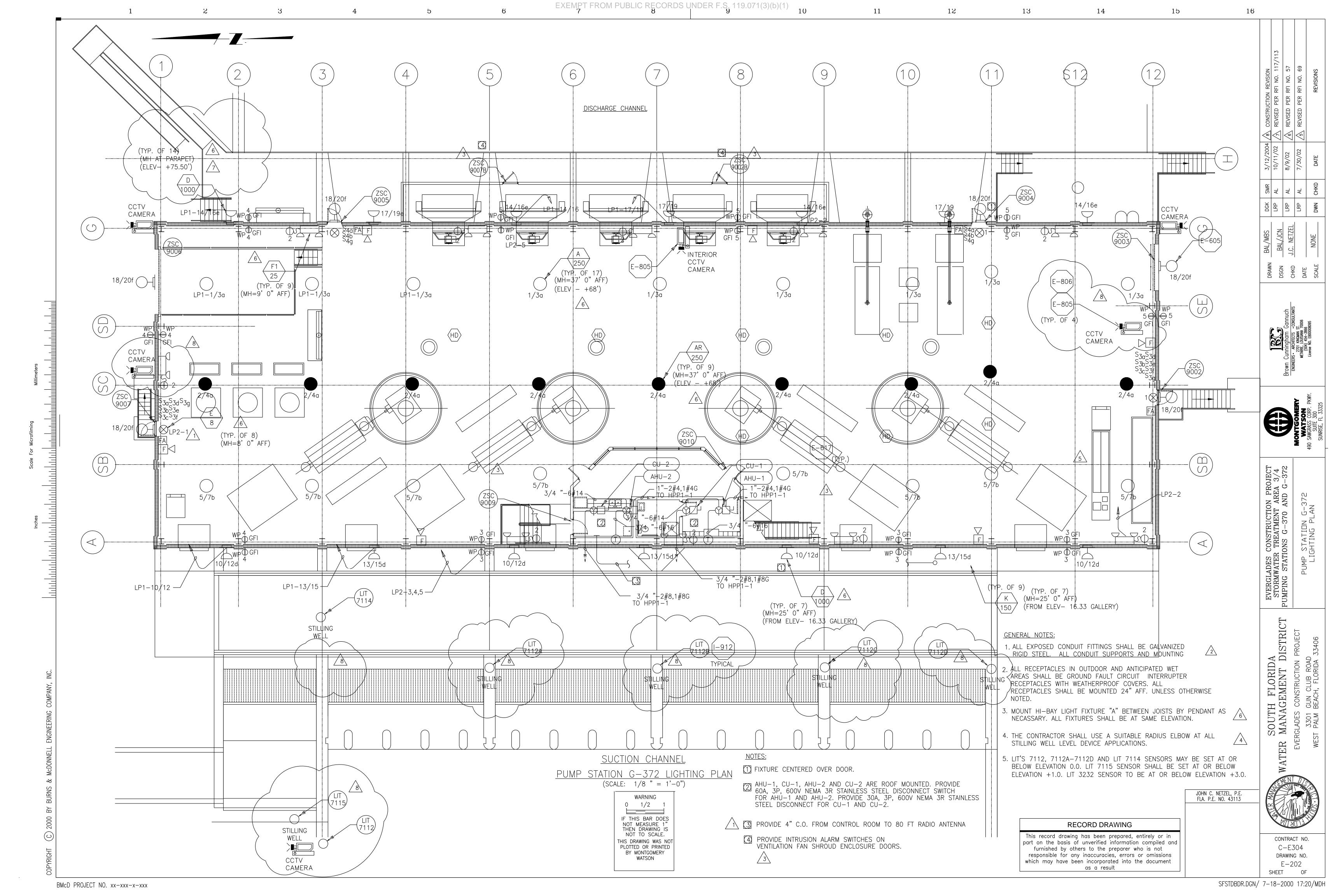


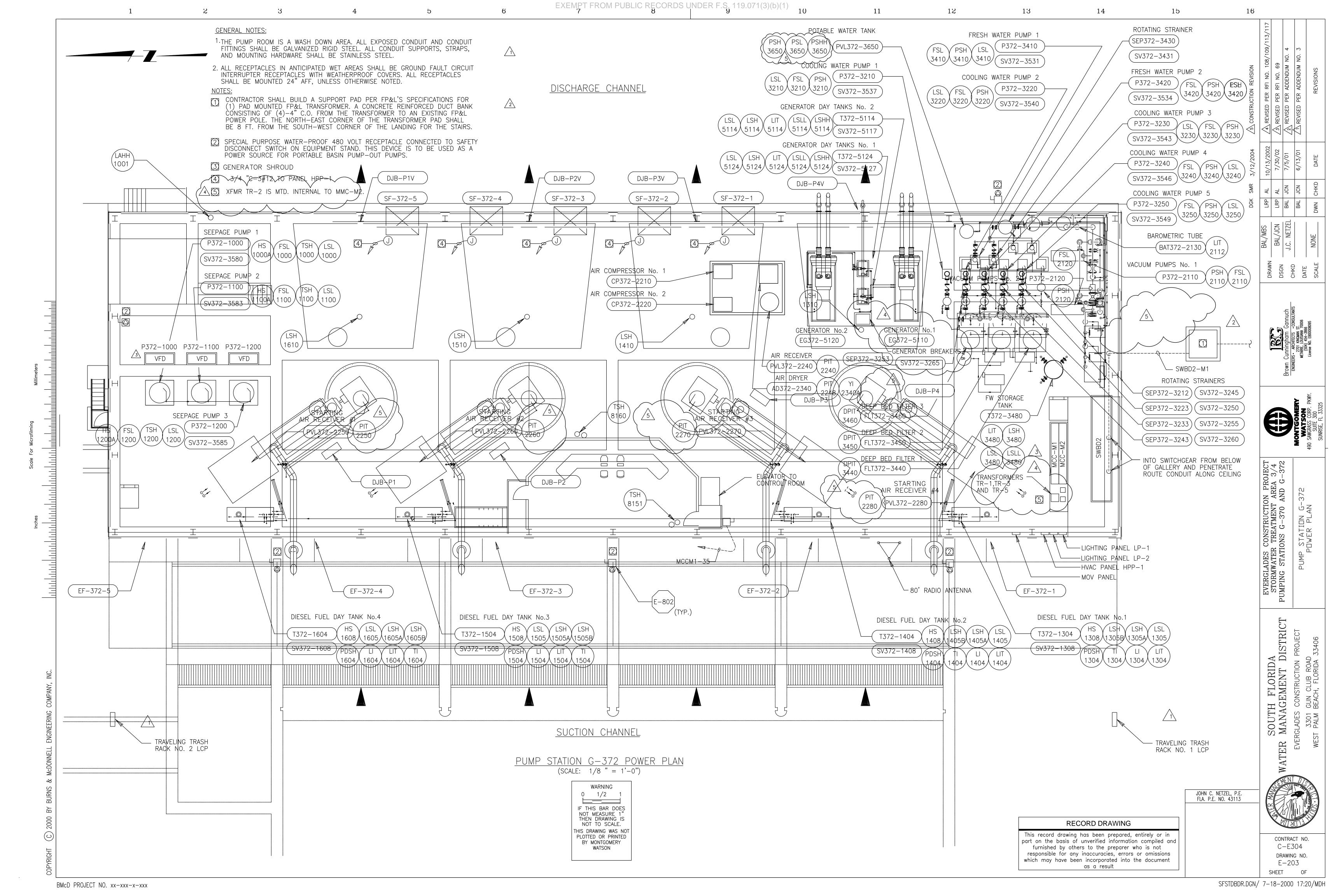


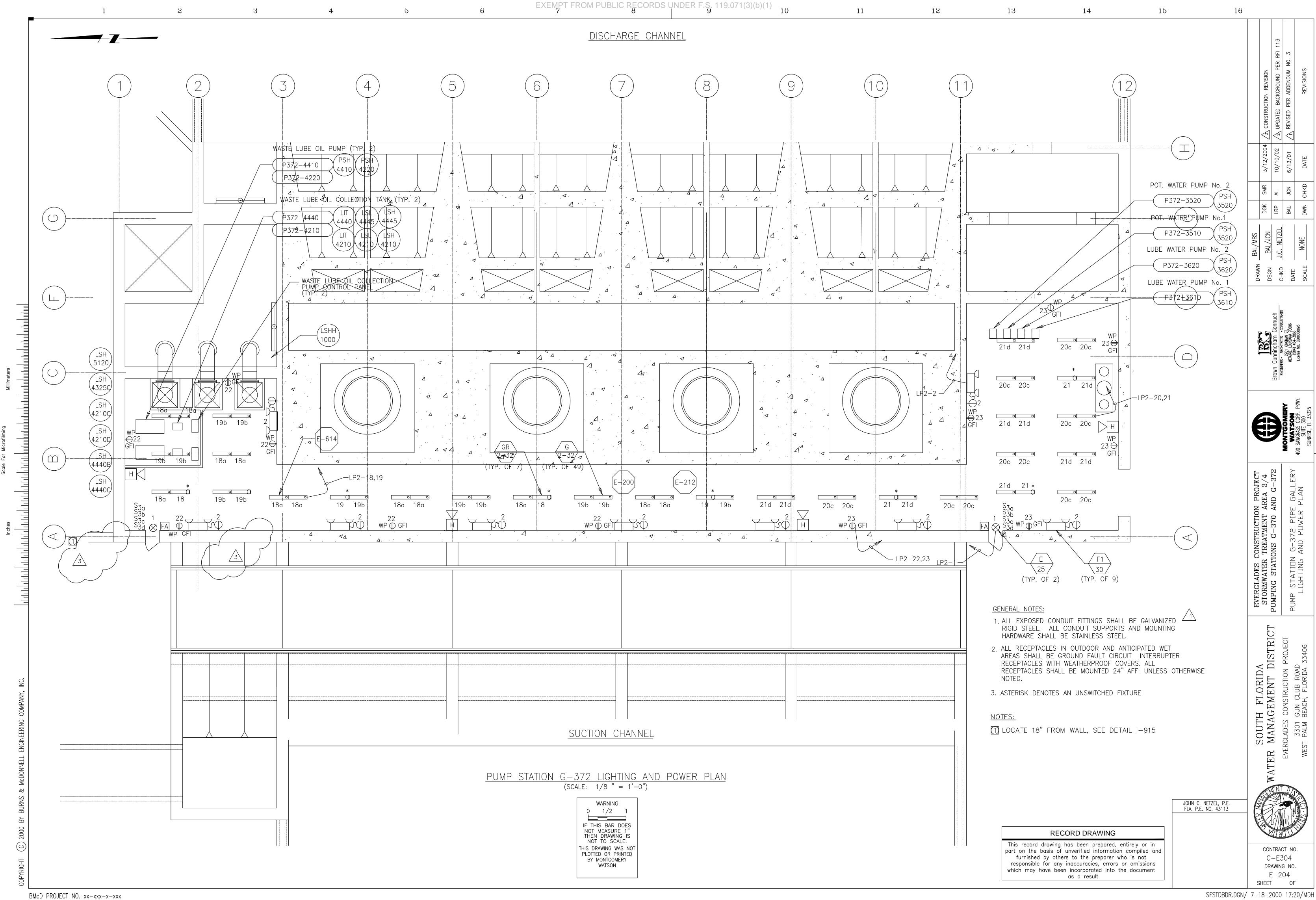


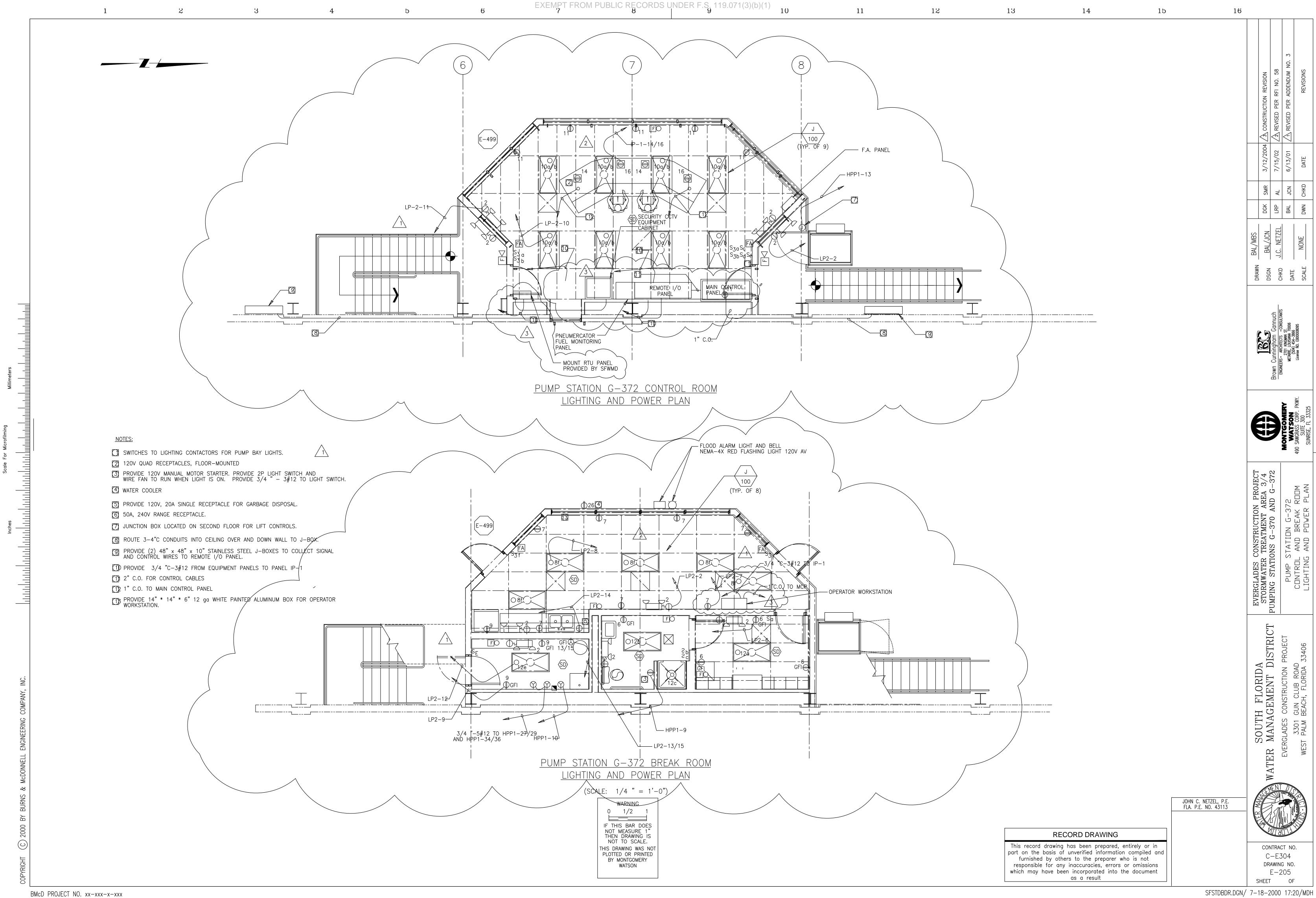


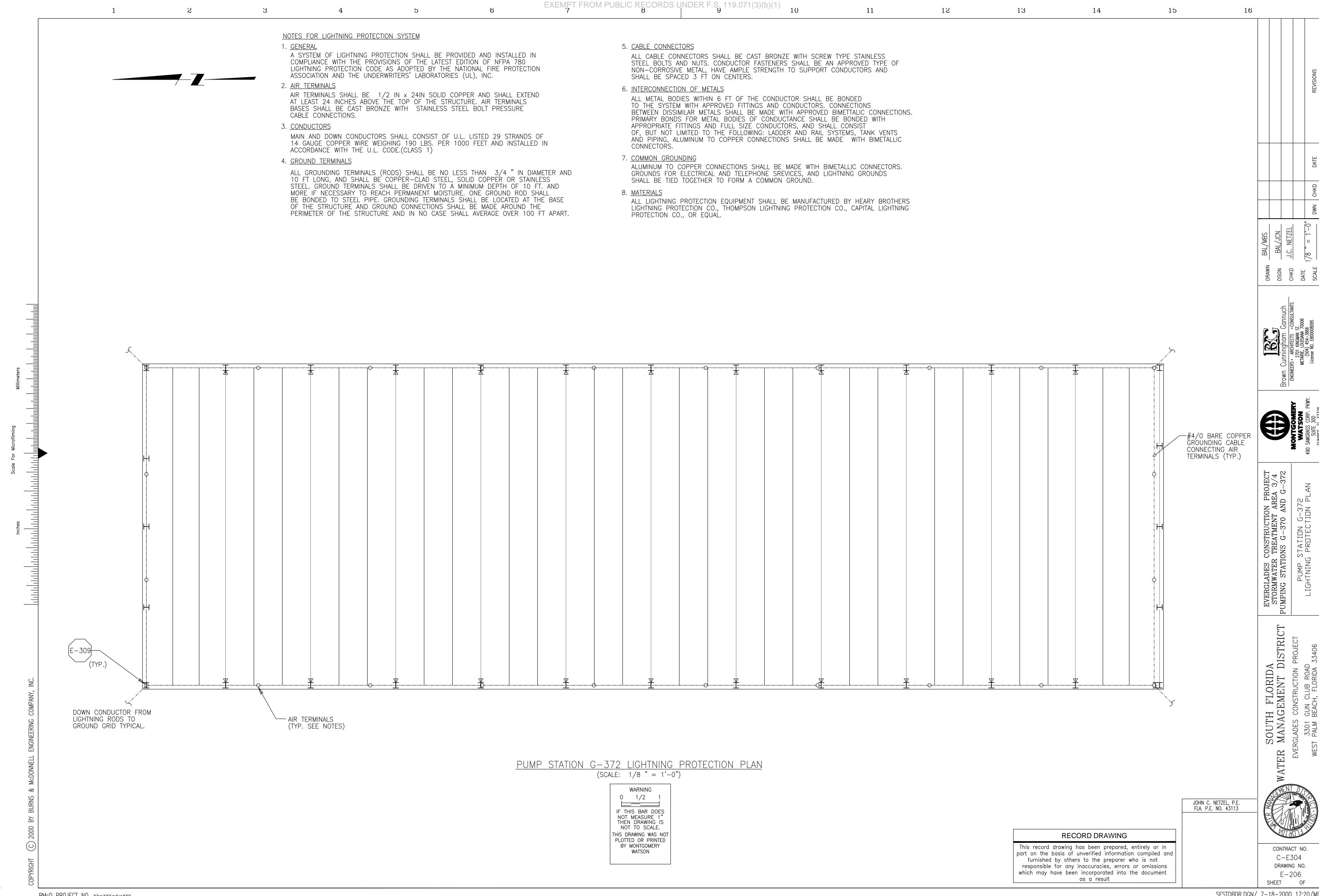


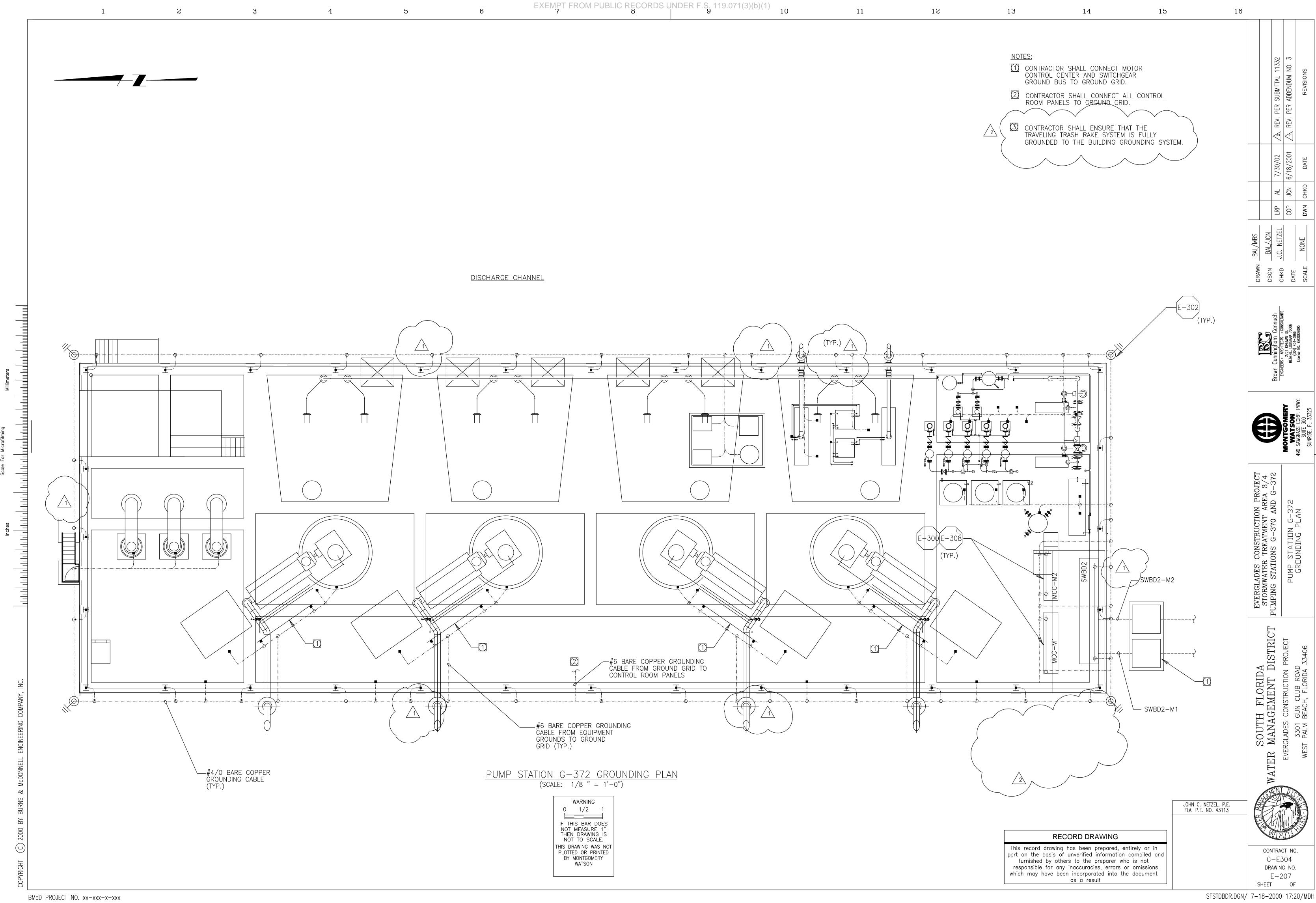


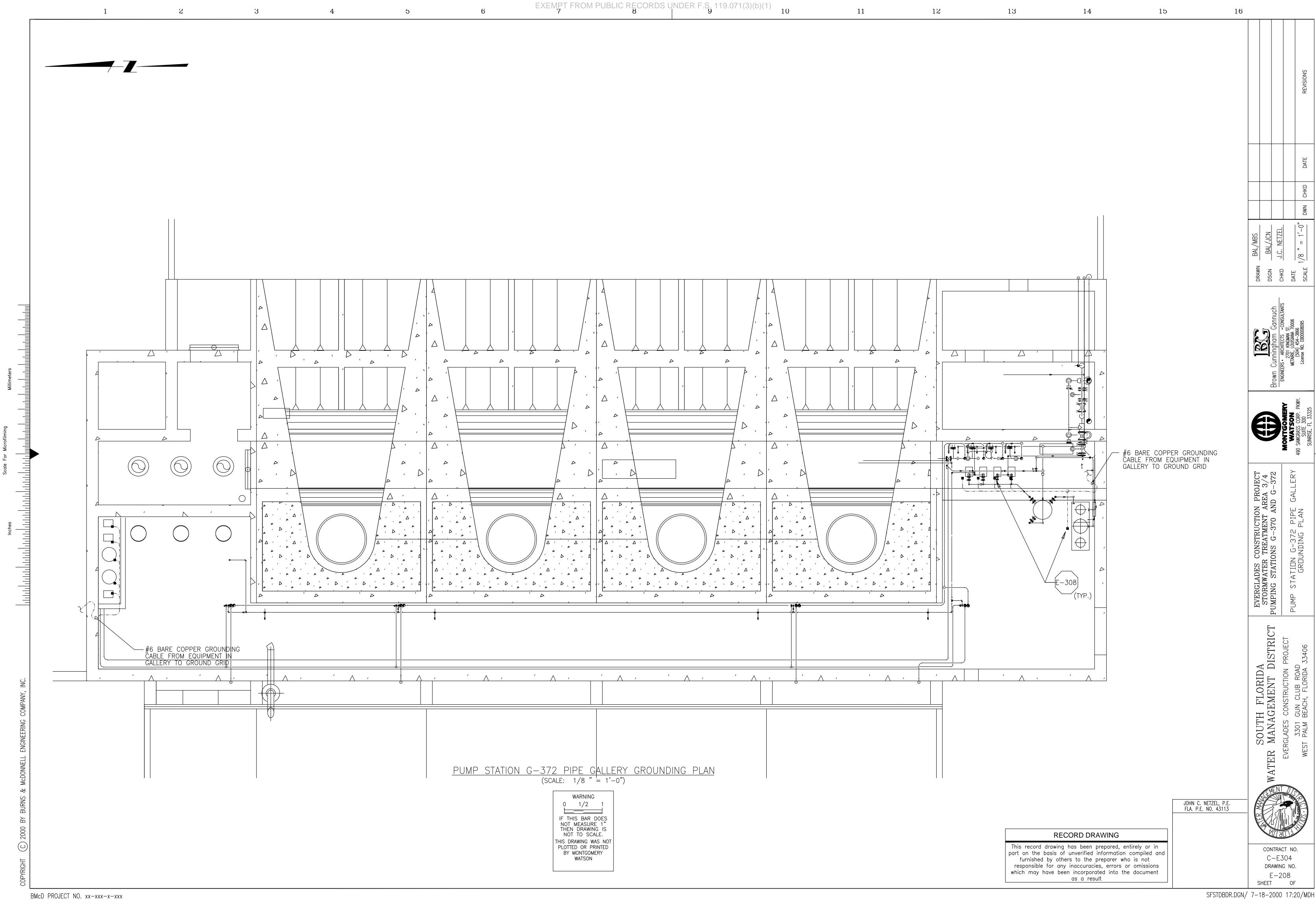


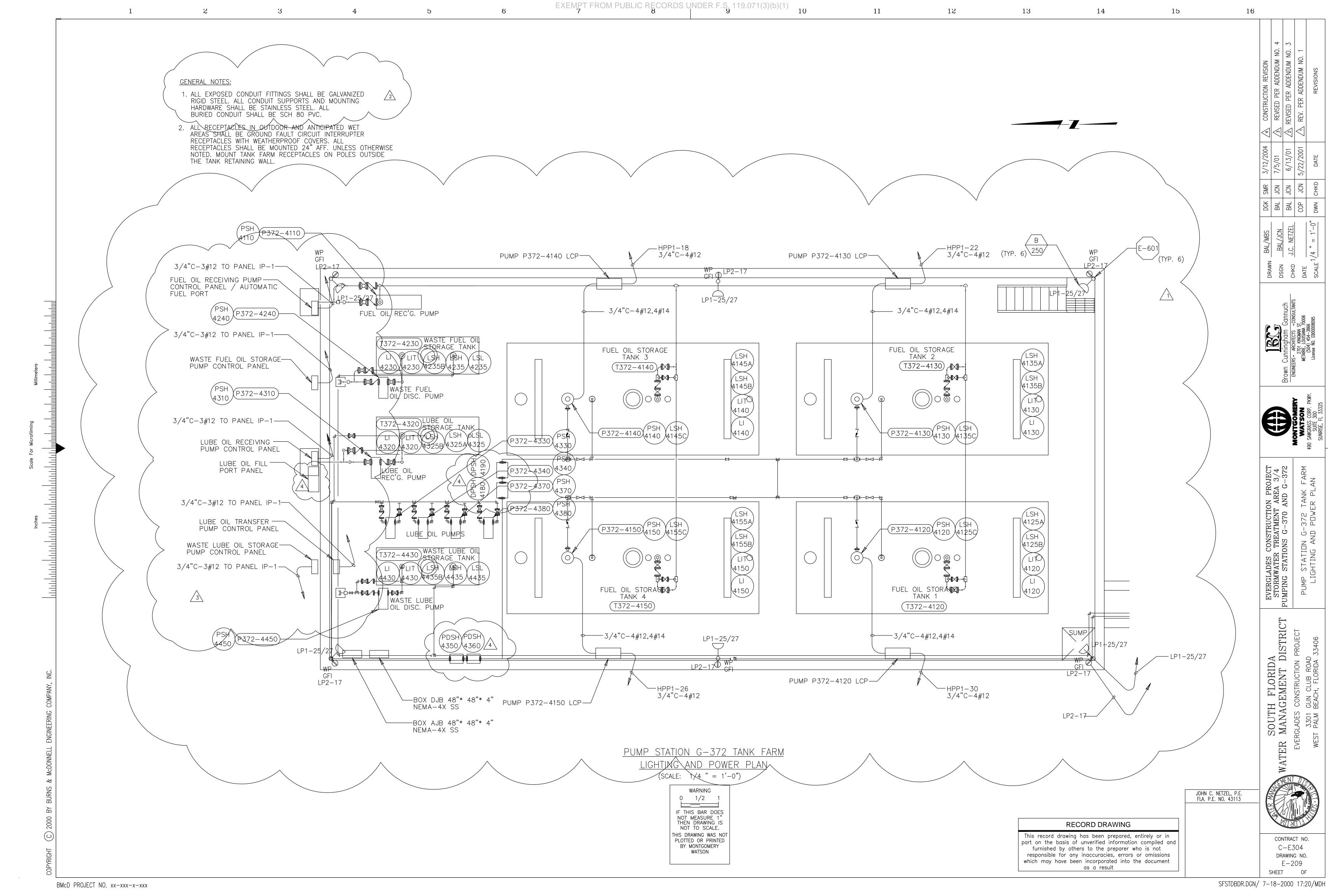


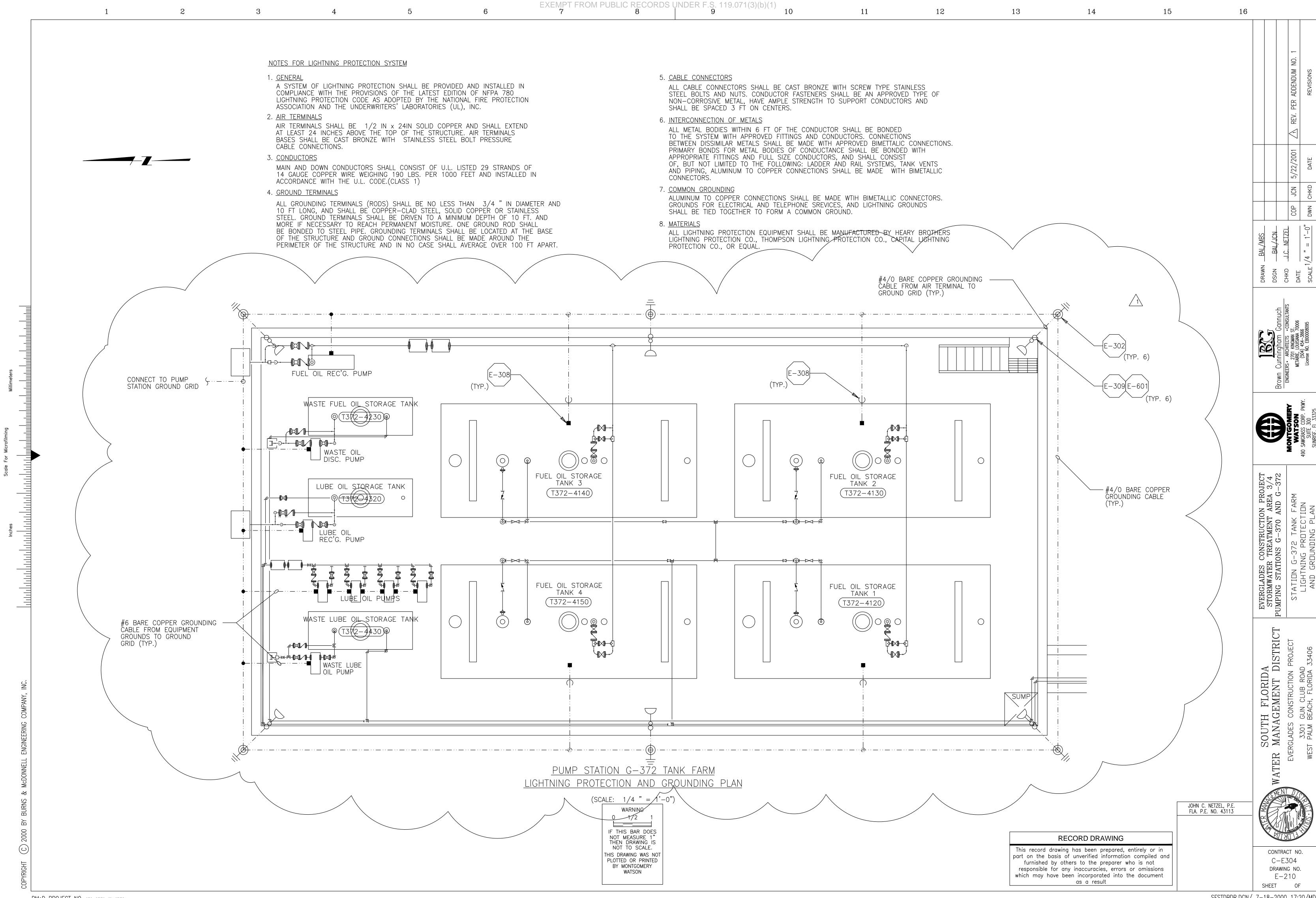


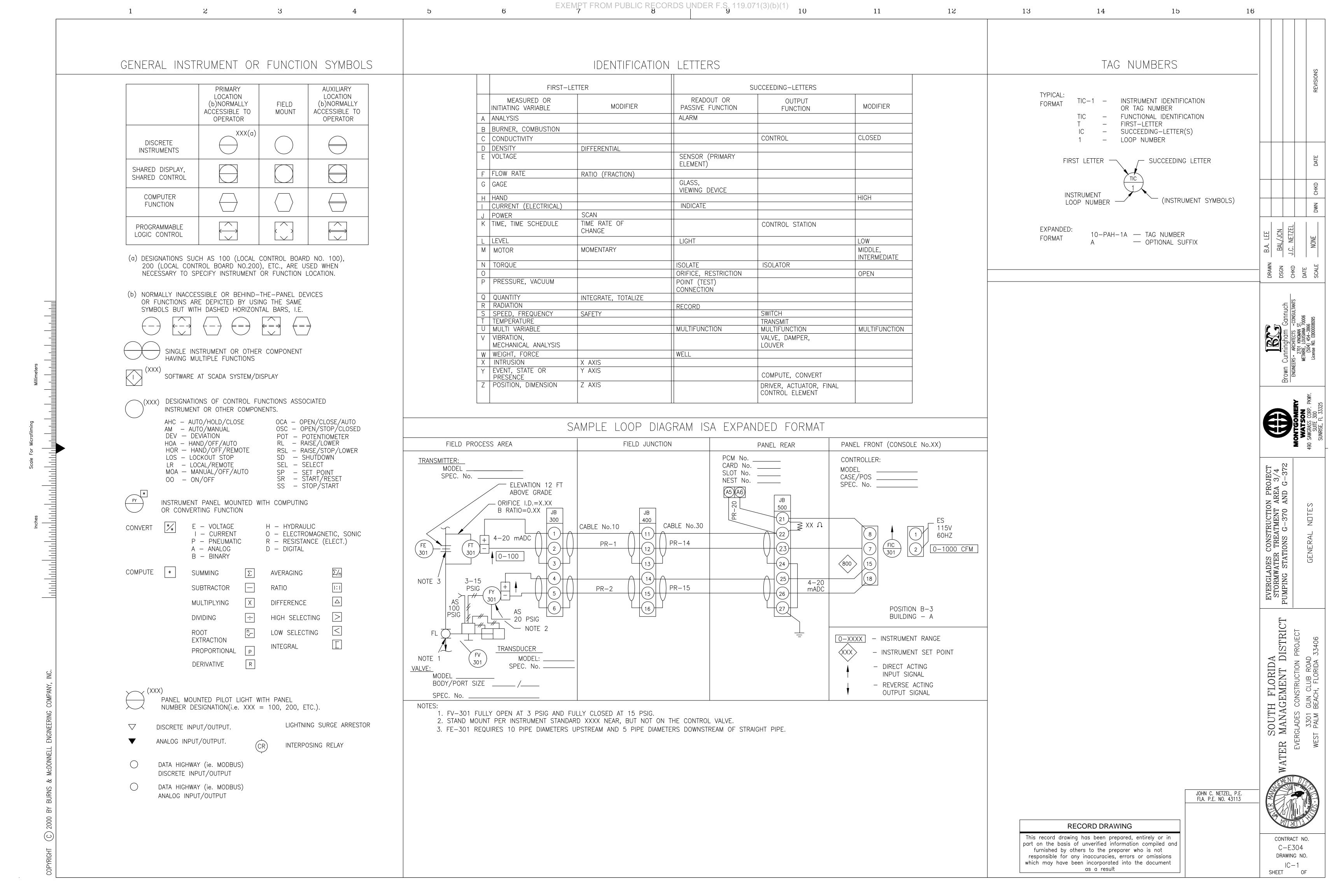




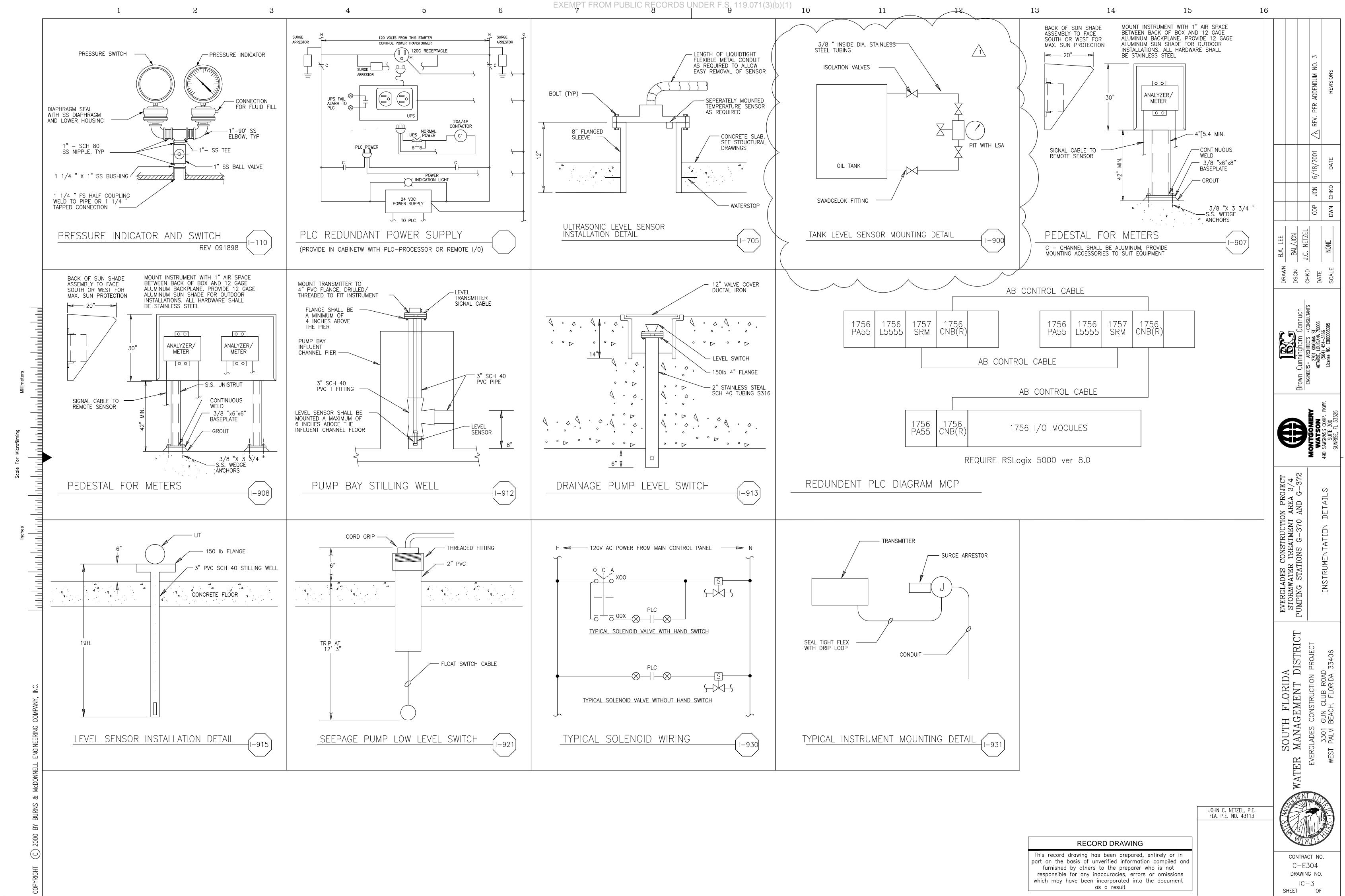


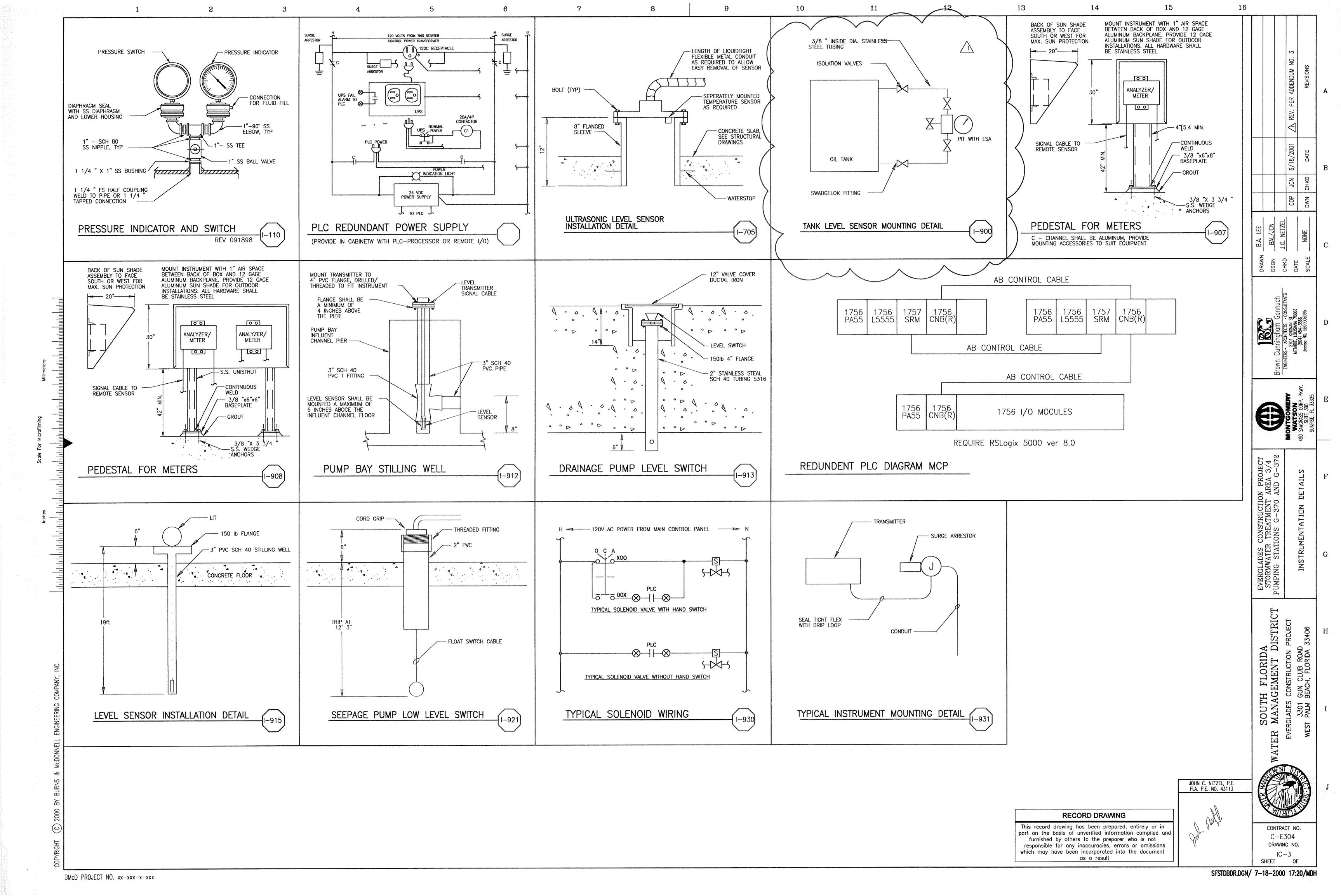


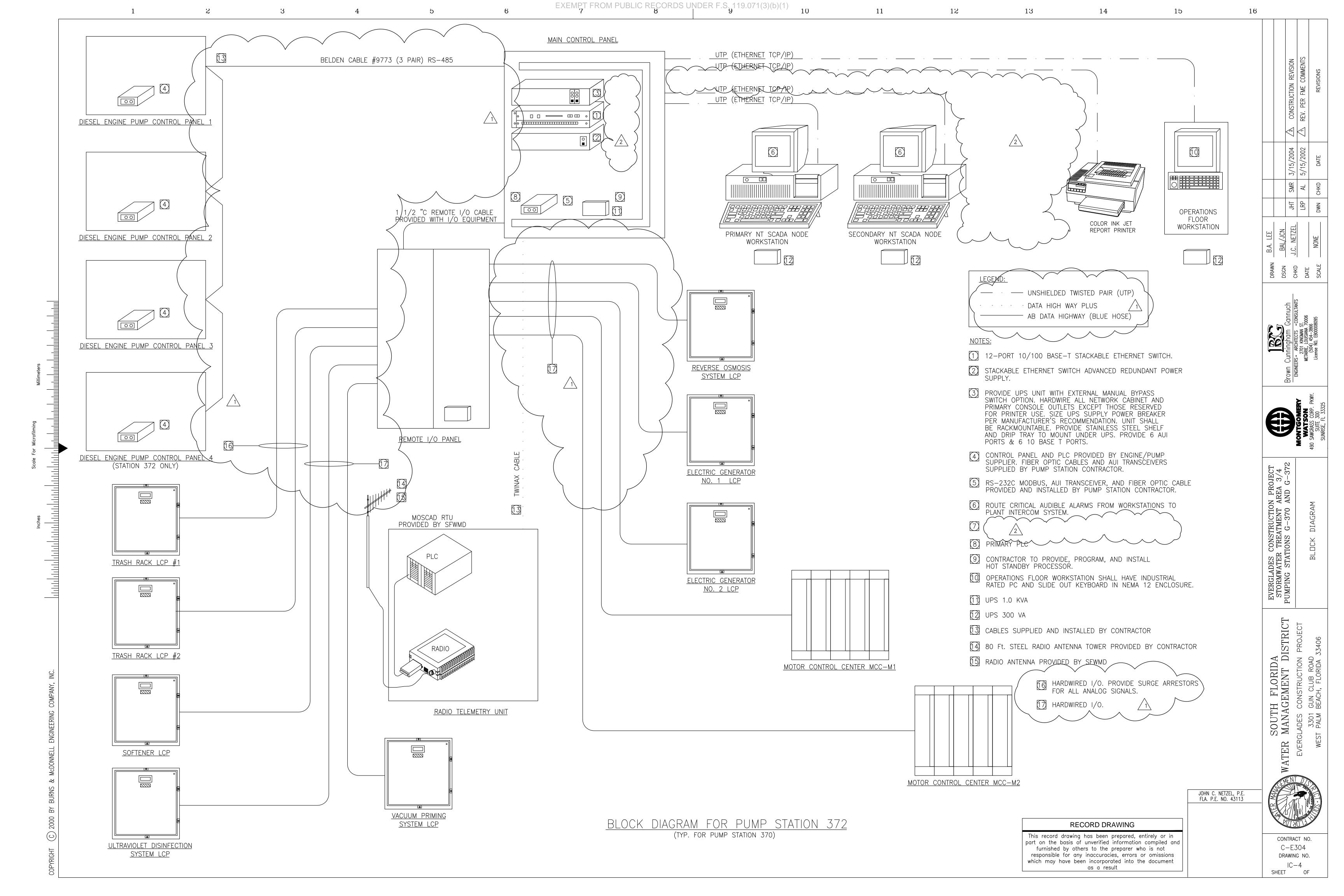


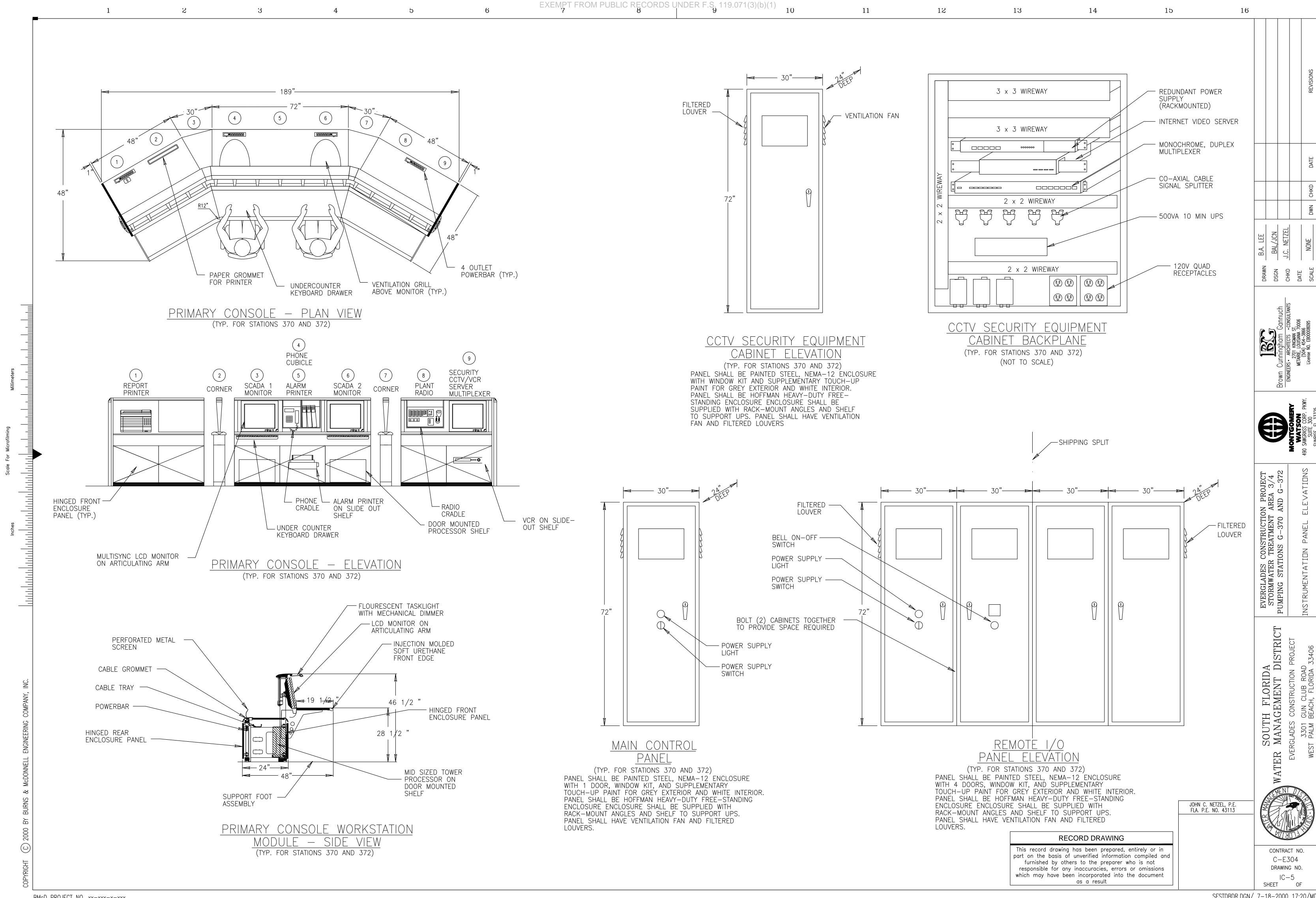


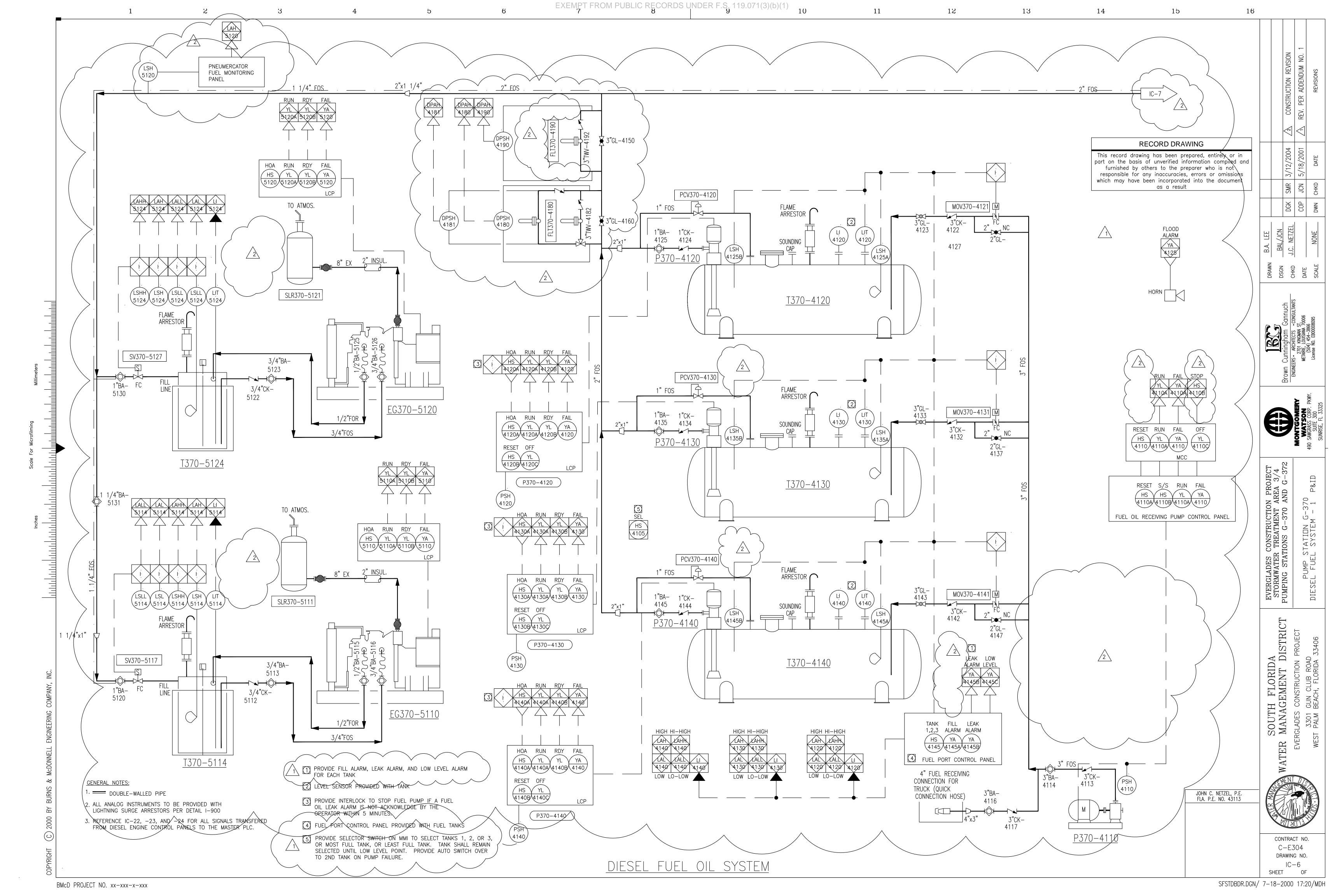
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	SYN	MBOL	FL(DW.		_EVEL	TEMPE	RATURE	SNO
	FUNCTION	DEFINITION					∠	5———5	REVISIC
	STATEMENT OF INPUT ALTERNATIVELY: STATEMENT OF INPUT INITIATING INSTRUMENT OR DEVICE	AN INPUT TO THE LOGIC SEQUENCE.	ORIFICE PLATE WITH VENA CONTRACTA, RADIUS, OR PIPE TAPS CONNECTED TO DIFFERENTIAL—PRESSURE— TYPE FLOW TRANSMITTER	TURBINE-OR PROPELLER TYPE PRIMARY ELEMENT	GAGE GLASS, EXTERNALLY CONNECTED	LEVEL TRANSMITTER, DIFFERENTIAL—PRESSURE TYPE, MOUNTED ON TANK	TEMPERATURE ELEMENT WITH WELL (ELEMENT NOT CONNECTED TO SECONDARY INSTRUMENT)	FILLED-SYSTEM-TYPE TEMPERATURE TRANSMITTER WITH WELL	DATE
	NUMBER, IF KNOWN. STATEMENT OF OUTPUT ALTERNATIVELY: STATEMENT OF OUTPUT	AN OUTPUT FROM THE LOGIC SEQUENCE.	VENTURI TUBE	SINGLE PORT PITOT TUBE OR PITOT— VENTURI TUBE	LEVEL TRANSMITTER WITH ONE CONNECTION	LEVEL TRANSMITTER WITH INTEGRAL INDICATION	BIMETALLIC-TYPE THERMO- METER, GLASS THERMO- METER, OR OTHER LOCAL UNCLASSIFIED TEMPERATURE INDICATOR	THERMOCOULPE, RESISTANCE BULB (RTD) OR THERMISTOR (TH) CONNECTED TO TEMPERATURE TRANSMITTER	BAL/JCN J.C. NETZEL NONE DWN CHKD
	OPERATED INSTRUMENT OR DEVICE NUMBER, IF KNOWN.						PRESSURE	OR VACUUM	DRAWN DSGN CHKD DATE
		AND GATE: LOGIC OUTPUT "D" EXISTS IF AND ONLY IF ALL LOGIC INPUTS "A", "B" AND "C" EXIST. OR GATE: LOGIC OUTPUT "D" EXISTS IF AND ONLY IF ONE OR MORE LOGIC INPUTS "A", "B" AND "C" EXIST.	FLUME	FE WEIR	LEVEL SWITCH, PADDLE WHEEL OR LEVER TYPE, TO	LEVEL TRANSMITTER FLOAT TYPE	P.I	P.I	nningham Gannuch ARCHITECTS • CONSULTANTS 2701 KINGMAN ST. AIRIE, LOUISMAN ST. (504) 454–3866 ense No. EB00008095
eters	C				MEASURE LEVEL OF SOLIDS		WITH PRESSURE LEAD LINE	LINE — MOUNTED	WN CUI
Millim	A DI B	DELAY INITIATION OF OUTPUT: THE CONTINUOUS EXISTENCE OF LOGIC INPUT "A" FOR TIME "t" CAUSES LOGIC OUTPUT "B" TO EXIST. WHEN "t" EXPIRES "B" TERMINATES WHEN "A" TERMINATES.	FQI	₹ F.I	LT		PRESSURE INDICATO DIAPHRAGM SEAL WIT		Bro ON CORP. PKWY. 500 - 33325
ile For Microfilming	A DT B	DELAY TERMINATION OF OUTPUT: THE EXISTENCE OF LOGIC INPUT "A" CAUSES LOGIC OUTPUT "B" TO EXIST IMMEDIATELY. "B" TERMINATES WHEN "A" HAS TERMINATED AND HAS NOT AGAIN EXISTED FOR TIME "t".	POSITIVE—DISPLACEMENT— TYPE FLOW TOTALIZING INDICATOR	VARIABLE AREA FLOW INDICATOR (ROTAMETER)	CAPACITANCE OR DIELECTRIC TYPE LEVEL ELEMENT CONNECTED TO LEVEL TRANSMITTER (TAG LEVEL ELEMENT LE)	RADIOACTIVE OR SONIC TYPE LEVEL TRANSMITTER WITH INTEGRAL SENSOR	PIT PRESSURE ELEMENT STRAIN-GAGE TYPE, CONNECTED TO PRESSURE	P.I PRESSURE INDICATOR, DIRECT — CONNECTED	MONTGOME WATSON 490 SAWGRASS CORP. SUITE 300 SUNRISE, FL 333
Scc	A PO t B	PULSE OUTPUT: THE EXISTENCE OF LOGIC INPUT "A", REGARDLESS OF ITS SUBSEQUENT STATE, CAUSES LOGIC OUTPUT "B" TO EXIST IMMEDIATELY. "B" EXISTS FOR TIME "t" AND THEN TERMINATES.	FE M → M → MAGNETIC FLOWMETER	SONIC FLOWMETER			INDICATING TRANSMITTER ANALY	TICAL ALK - ALKALINITY CL2 - CHLORINE CONCENTRATION COMB - COMBUSTABLE GAS	RUCTION PROJECT WENT AREA 3/4 -370 AND G-372
	A	QUALIFIED OR GATE: LOGIC OUTPUT "D" EXISTS		"DOPPLER" OR "TRANSIT TIME" MAY BE ADDED			ALT	CON — CONDUCTIVITY DO — DISSOLVED OXYGEN	ONSTR TREAT INS G
	B * D C D D D D D D D D	IF AND ONLY IF A SPECIFIC NUMBER OF LOGIC INPUTS "A", "B", AND "C" EXISTS.			WE	EIGHT		H ₂ S — HYDROGEN SULFIDE LEL — LOWER EXPLOSIVE LIMIT	DES CATER STATIC
	*INTERNAL DETAILS REPRESENT NUMERICAL QUANTITIES A B THE NOT SYMBOL MAY BE DRAWN TANGENT TO AN ADJACENT LOGIC SYMBOL.	NOT GATE: LOGIC "B" EXISTS IF AND ONLY IF LOGIC INPUT "A" DOES NOT EXIST.	VORTEX SENSOR	PADDLE WHEEL	TANK	WT CONVEYOR	ANALYSIS INDICATING TRANSMITTER	02 - OXYGEN CONCENTRATION 03 - OZONE ORP - OXIDATION/REDUCTION POTENTIAL PH - HYDROGEN ION CONCENTRATION S02 - SULFUR DIOXIDE THE DIOXIDE THE DIOXIDE THE DIOXIDE	TRICT STORMWATER TREATMENT STORMWATER TREATMENT PUMPING STATIONS G-370 SYMBOLS AND NOMENC
RING COMPANY, INC.	A S C B D * *OUTPUT D SHALL NOT BE SHOWN IF IT IS NOT USED.	FLIP-FLOP (LATCH): LOGIC OUTPUT "C" EXISTS AS SOON AS LOGIC INPUT "A" EXISTS. "C" CONTINUES TO EXIST REGARDLESS OF THE SUBSEQUENT STATE OF "A" UNTIL RESET BY THE EXISTENCE OF LOGIC INPUT "B". LOGIC OUTPUT "D", IF USED, EXISTS WHEN "C" DOES NOT EXIST. "D" DOES NOT EXIST WHEN "C" EXISTS.	POS	SITION	WEIGHT TRANSMITTER, DIRECT—CONNECTED TANK WT	WEIGH-BELT SCALE TRANSMITTER		TURB — TURBIDITY UV — ULTRA VIOLET	SOUTH FLORIDA MANAGEMENT DISTRICT ERCLADES CONSTRUCTION PROJECT 3301 GUN CLUB ROAD EST PALM BEACH, FLORIDA 33406
& McDONNELL ENGINEER	A MS C B R D	MAINTAINED FLIP-FLOP: SIMILAR TO DEFINITION OF FLIP-FLOP EXCEPT THAT THE MEMORY SHALL BE MAINTAINED IN THE EVENT OF LOGIC POWER LOSS.	LIMIT SWITCH THAT IS ACTUATED WHEN VALVE IS CLOSED TO A PRE— DETERMINED POSITION	POSITION TRANSMITTER	STRAIN GAGE CONNECTED TO SEPARATE WEIGHT TRANSMITTER (TAG STRAIN GAGE WE)				SOU SOU WATER MAI EVERGLAD 33
2) 2000 BY BURNS							RECORD D		
COPYRIGHT (C	McD PROJECT NO. xx-xxx-x-xxx						This record drawing has been part on the basis of unverified furnished by others to the responsible for any inaccura which may have been incorporate as a record.	e preparer who is not cies, errors or omissions brated into the document esult	CONTRACT NO. C-E304 DRAWING NO. IC-2 SHEET OF GN/ 7-18-2000 17:20/MDH

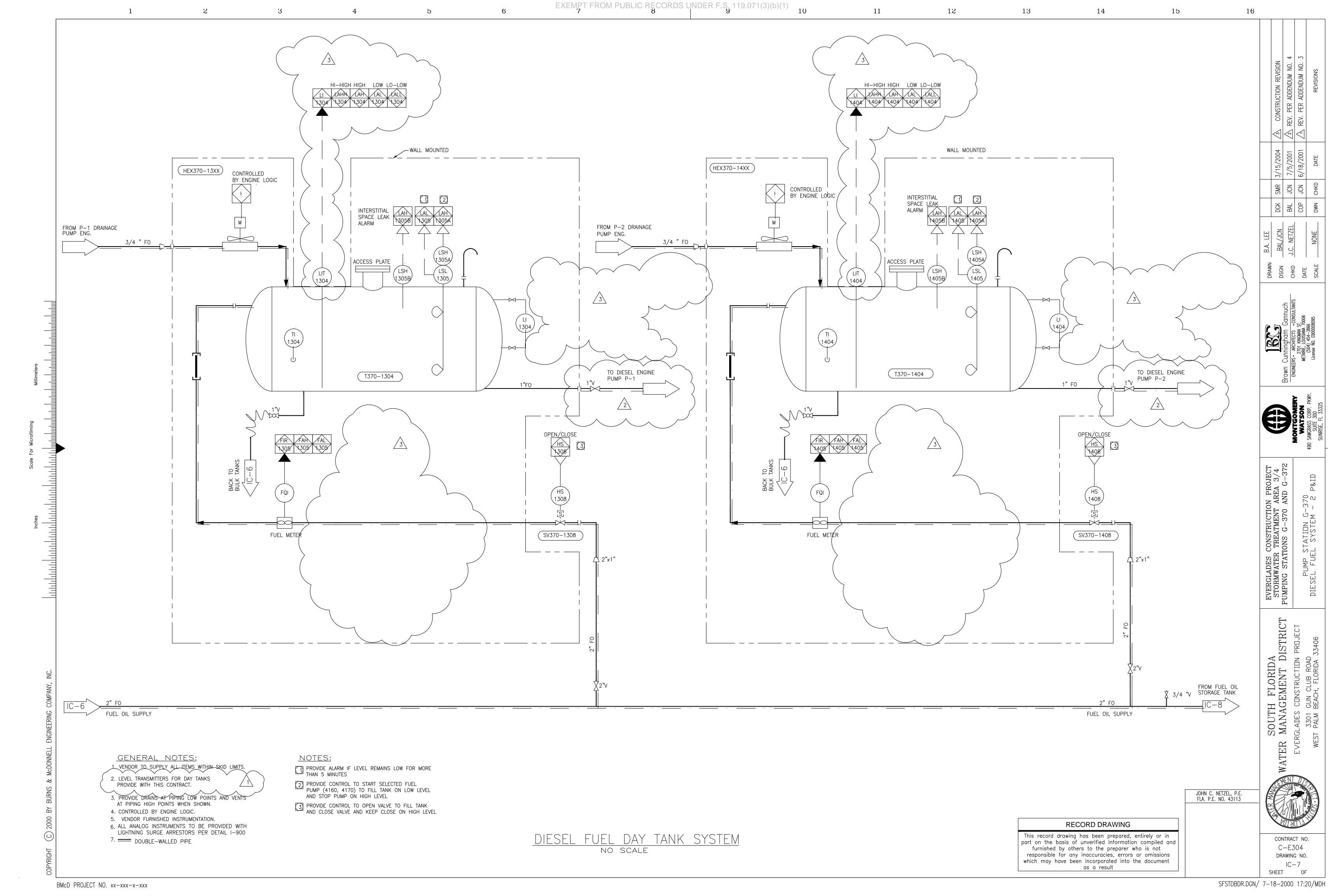


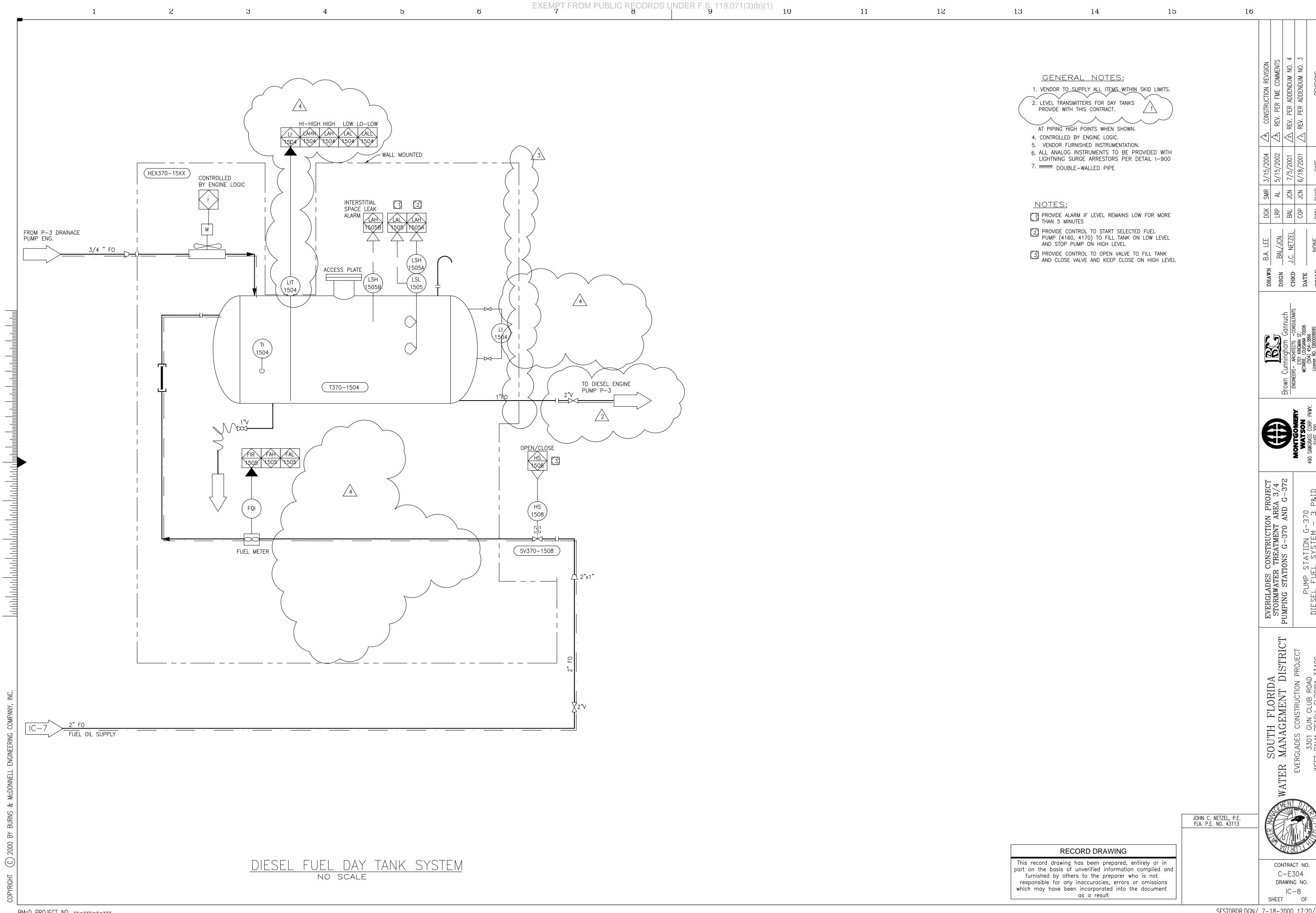


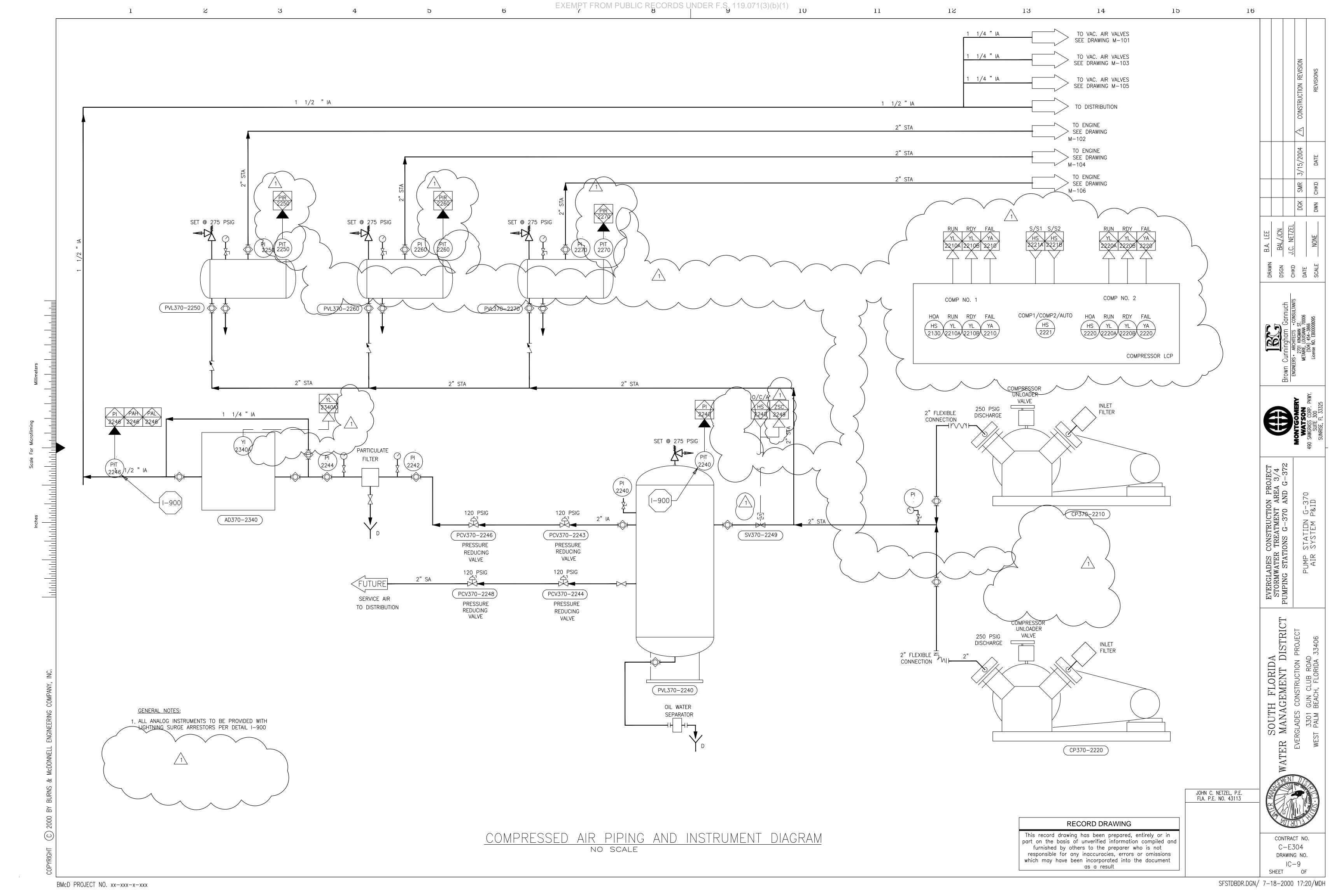


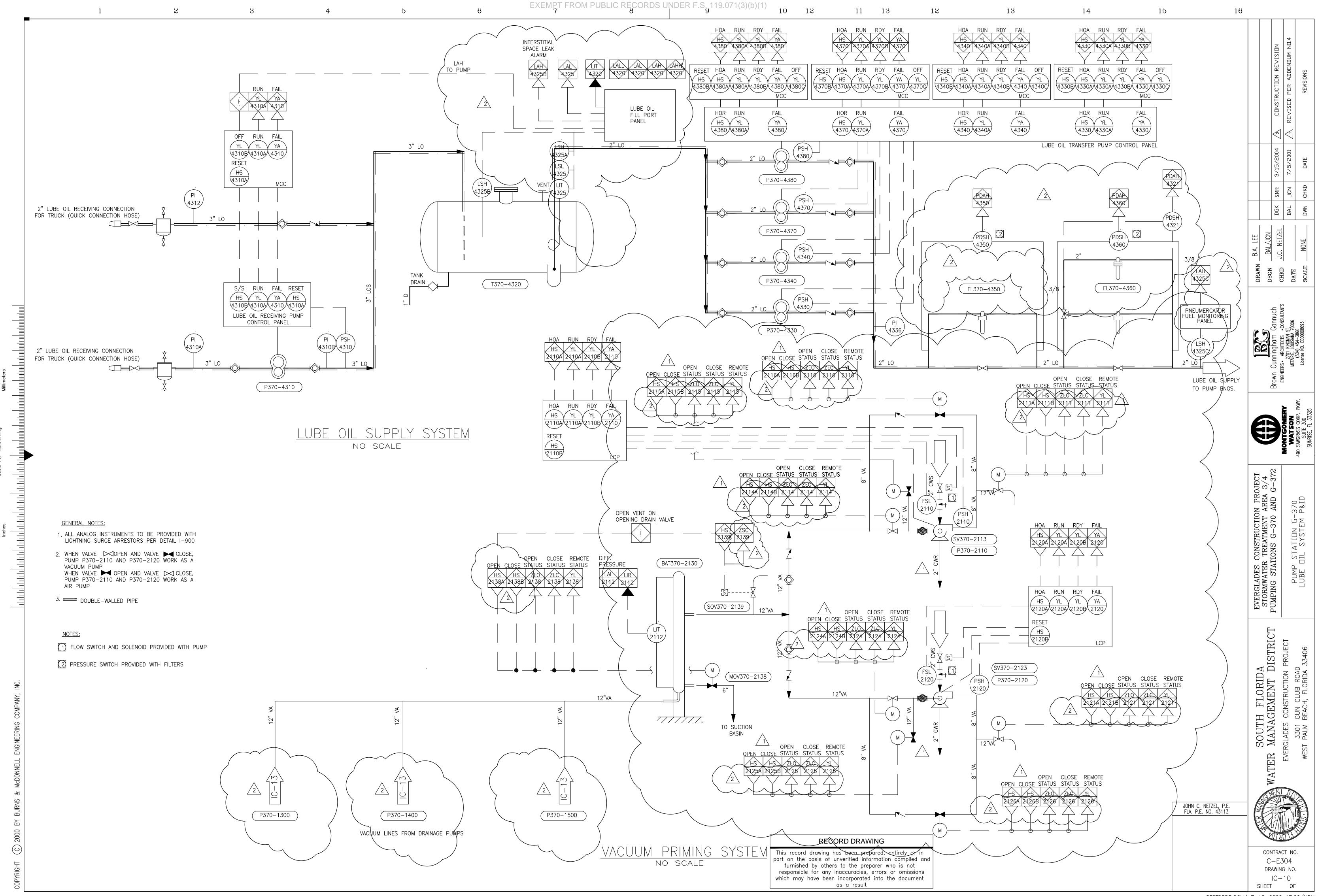


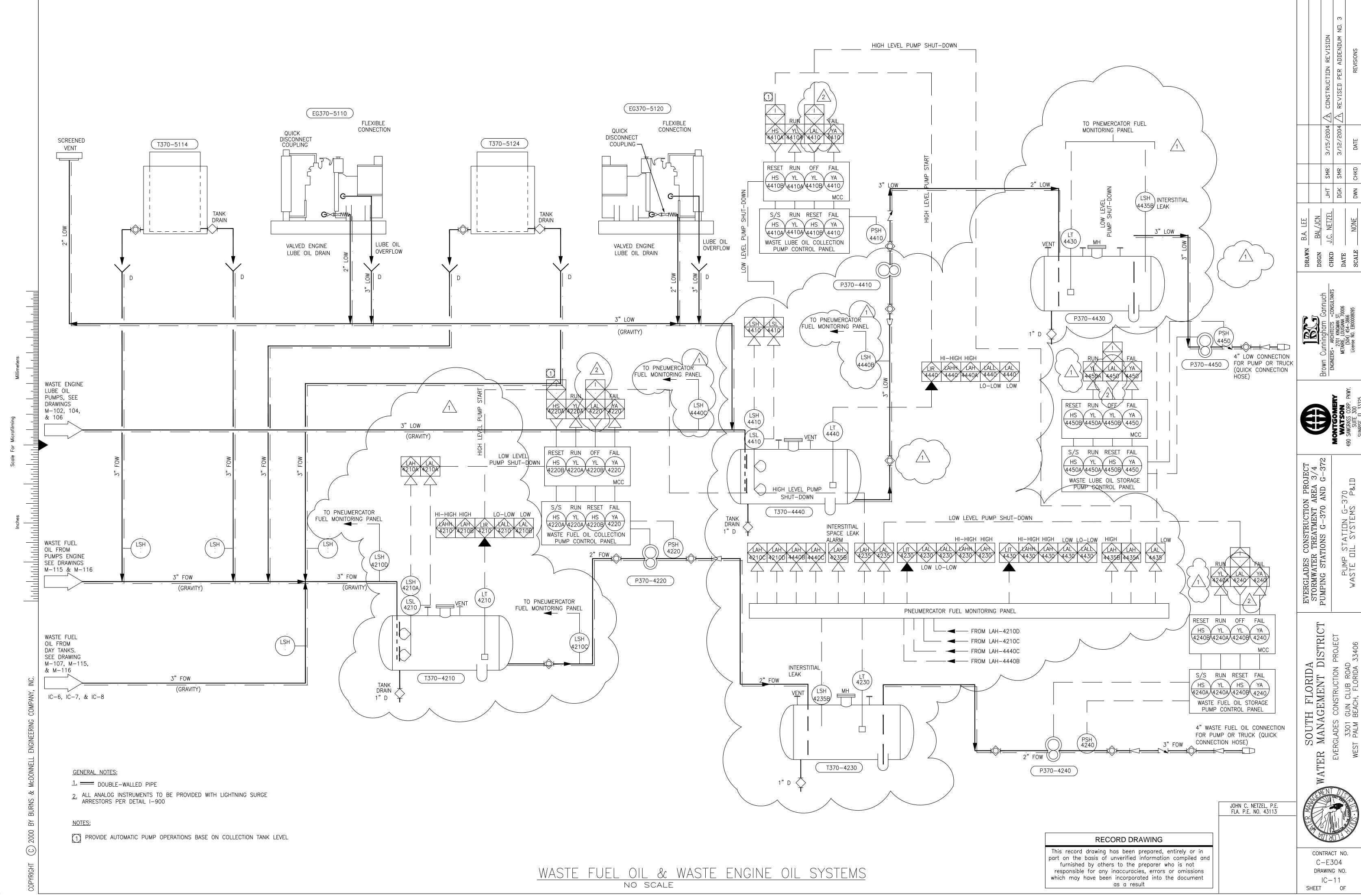






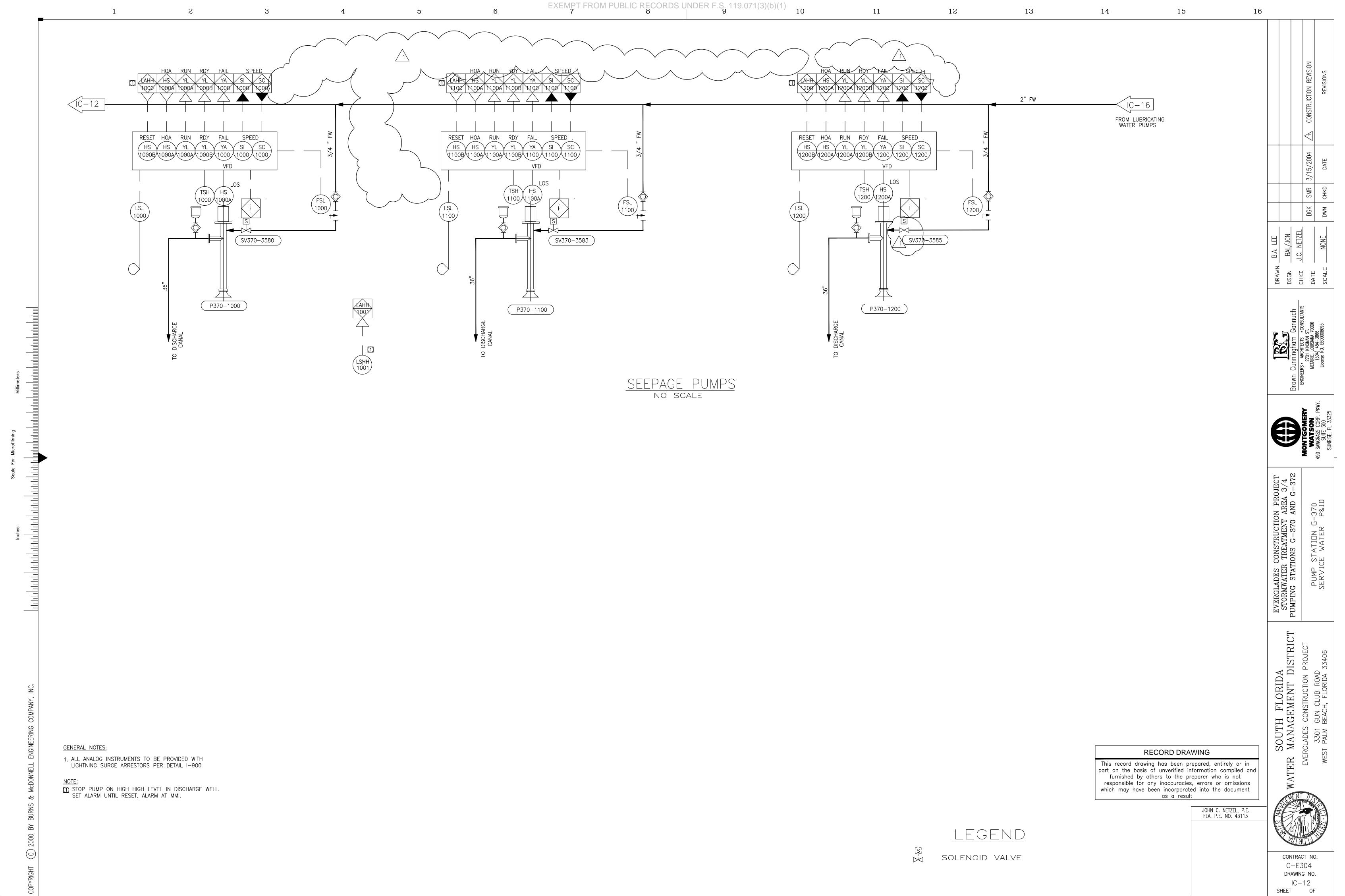


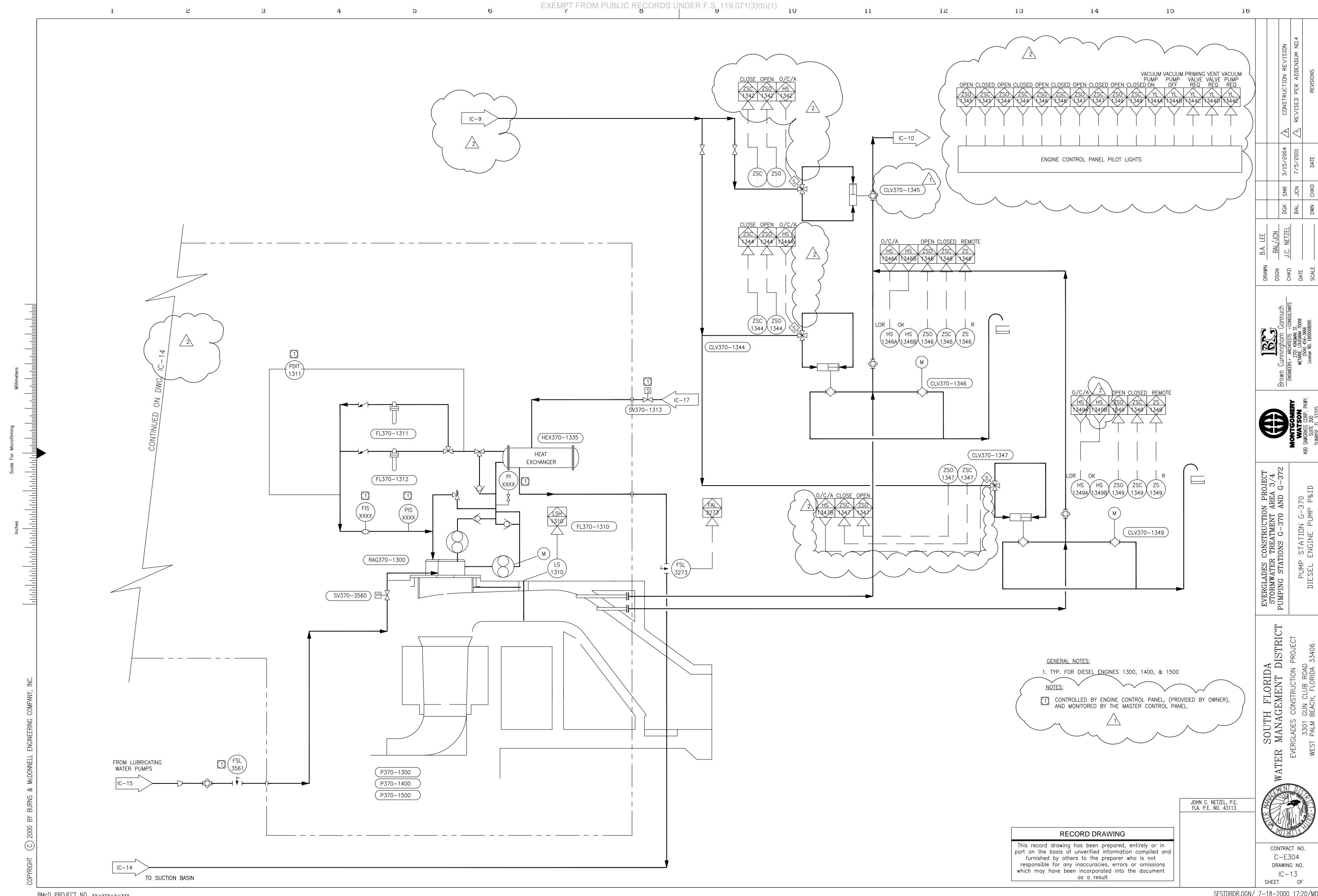


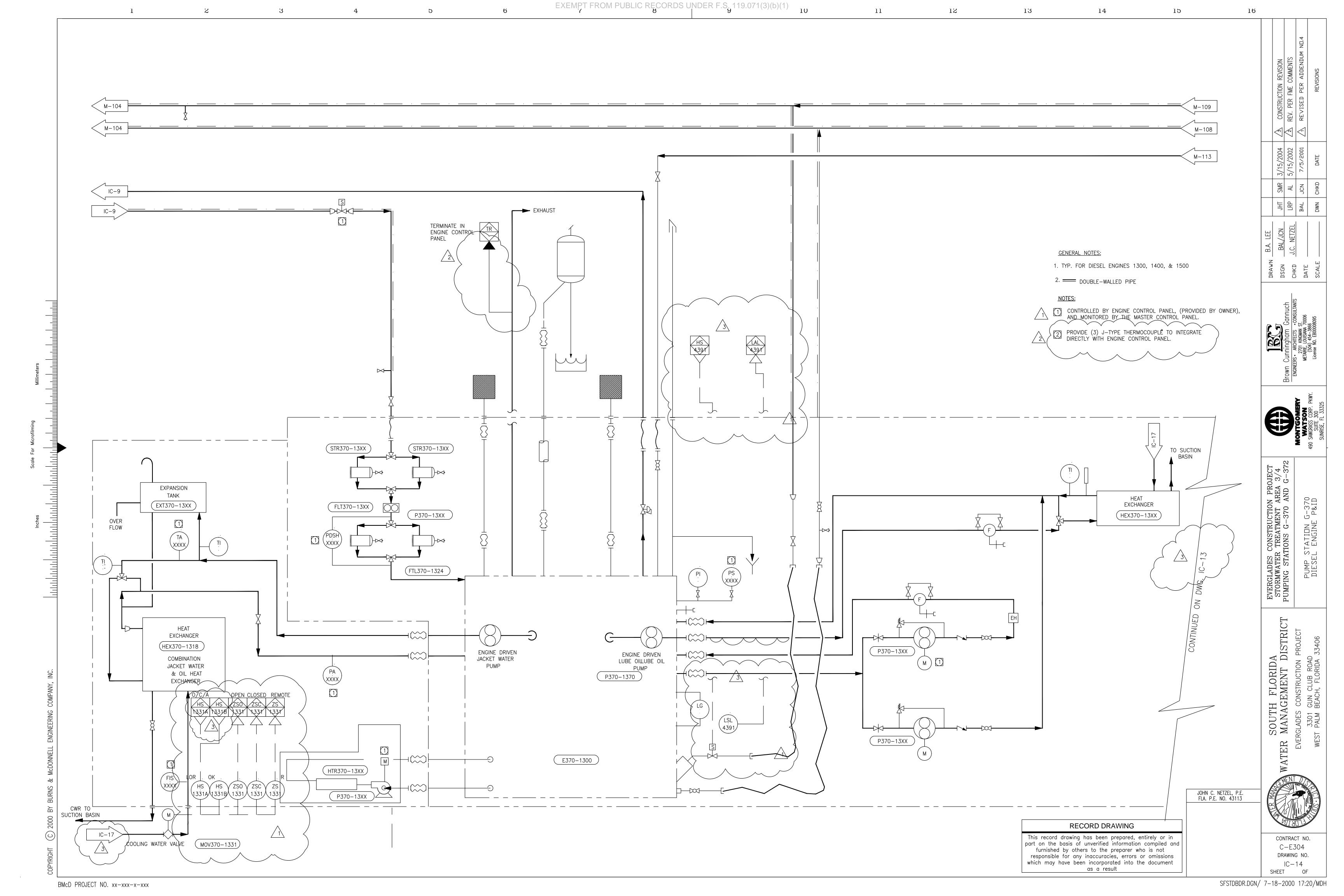


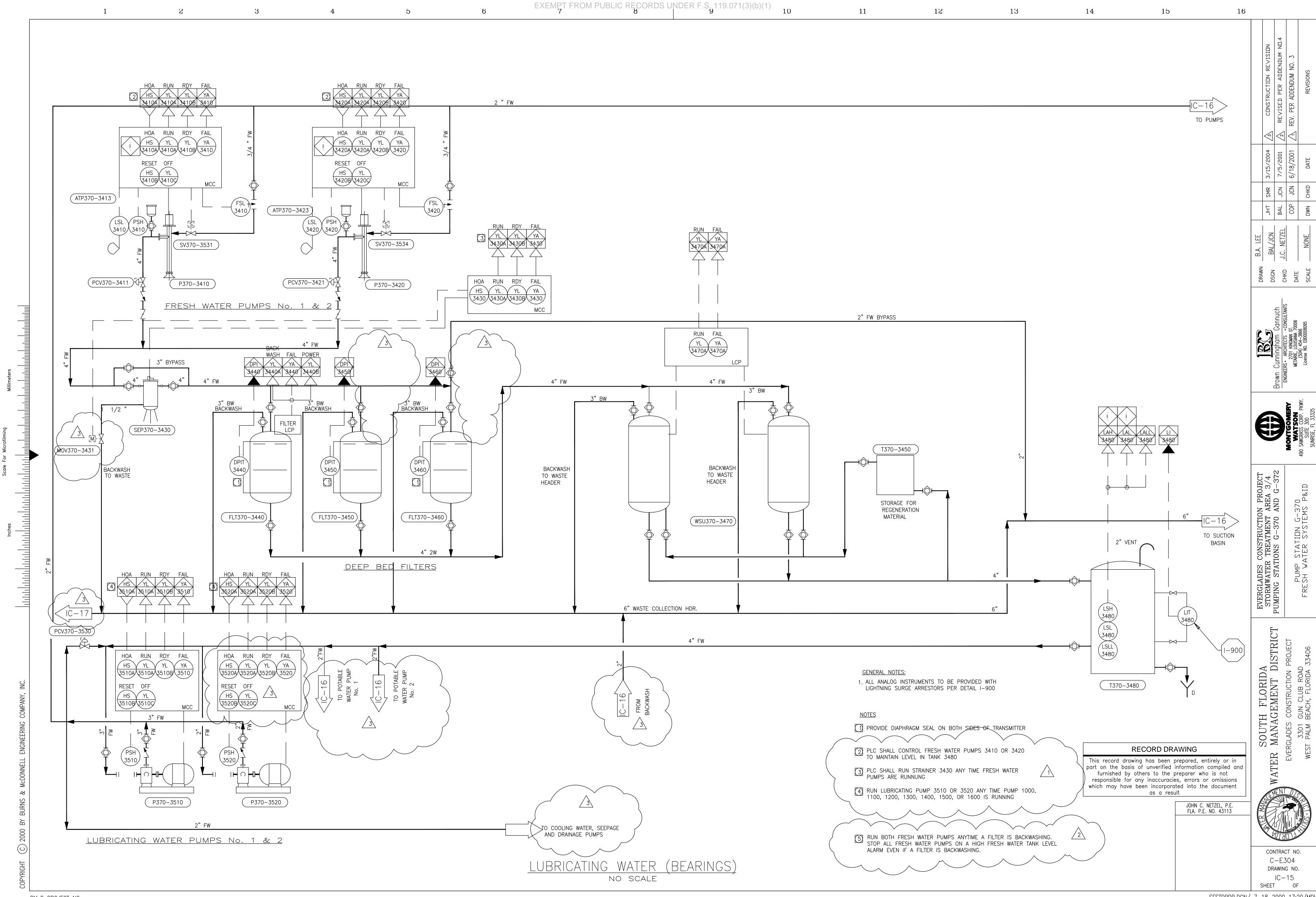
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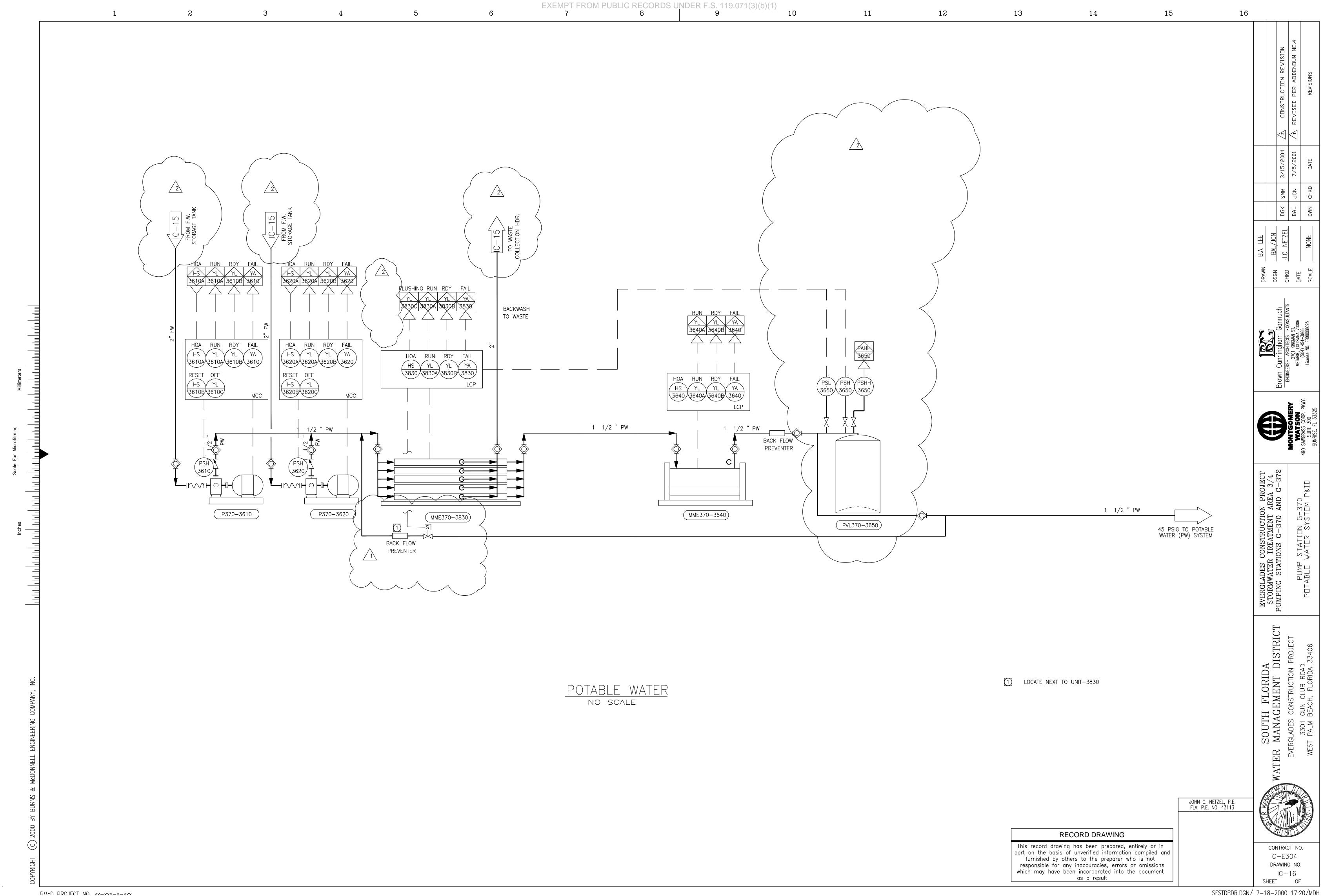
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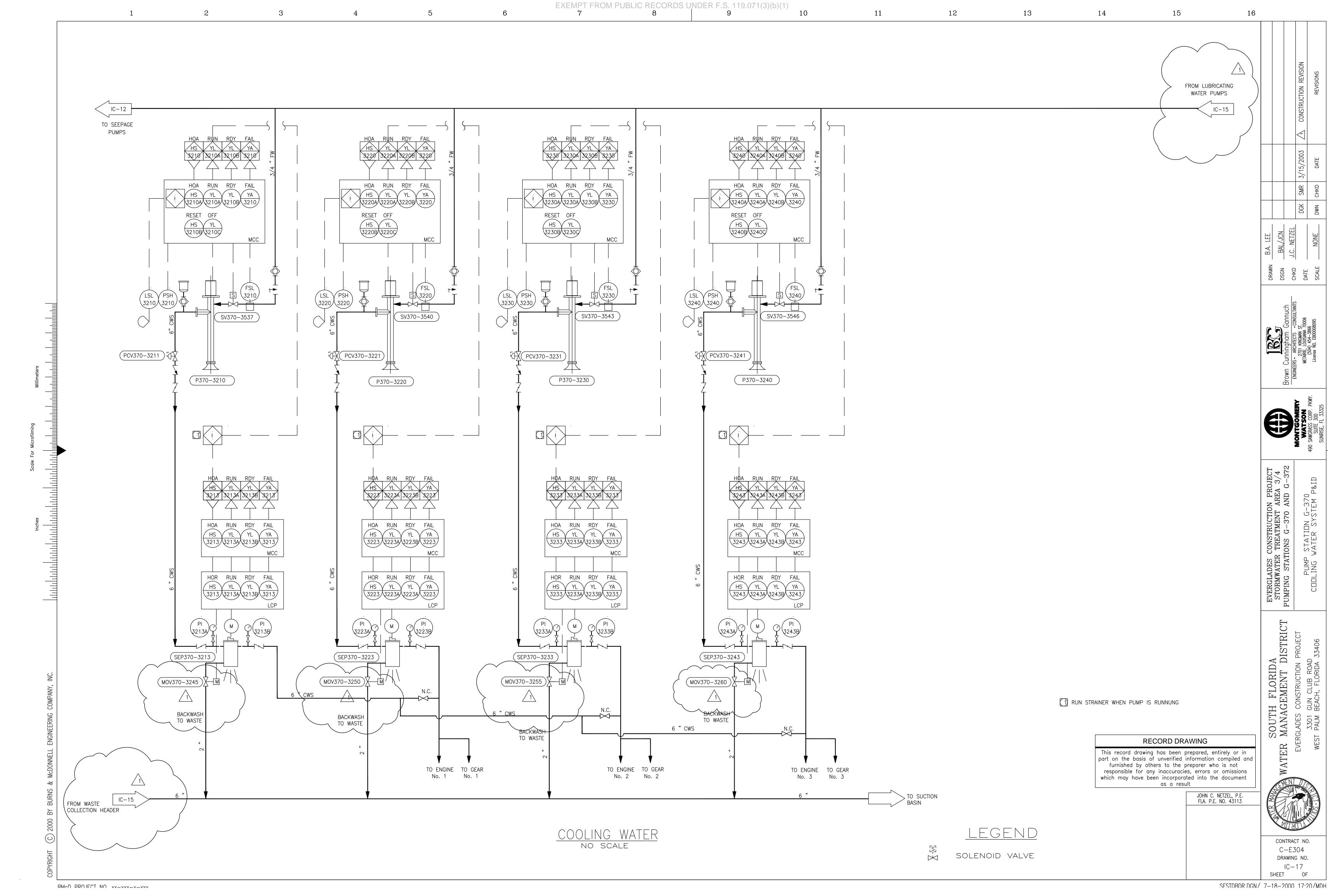


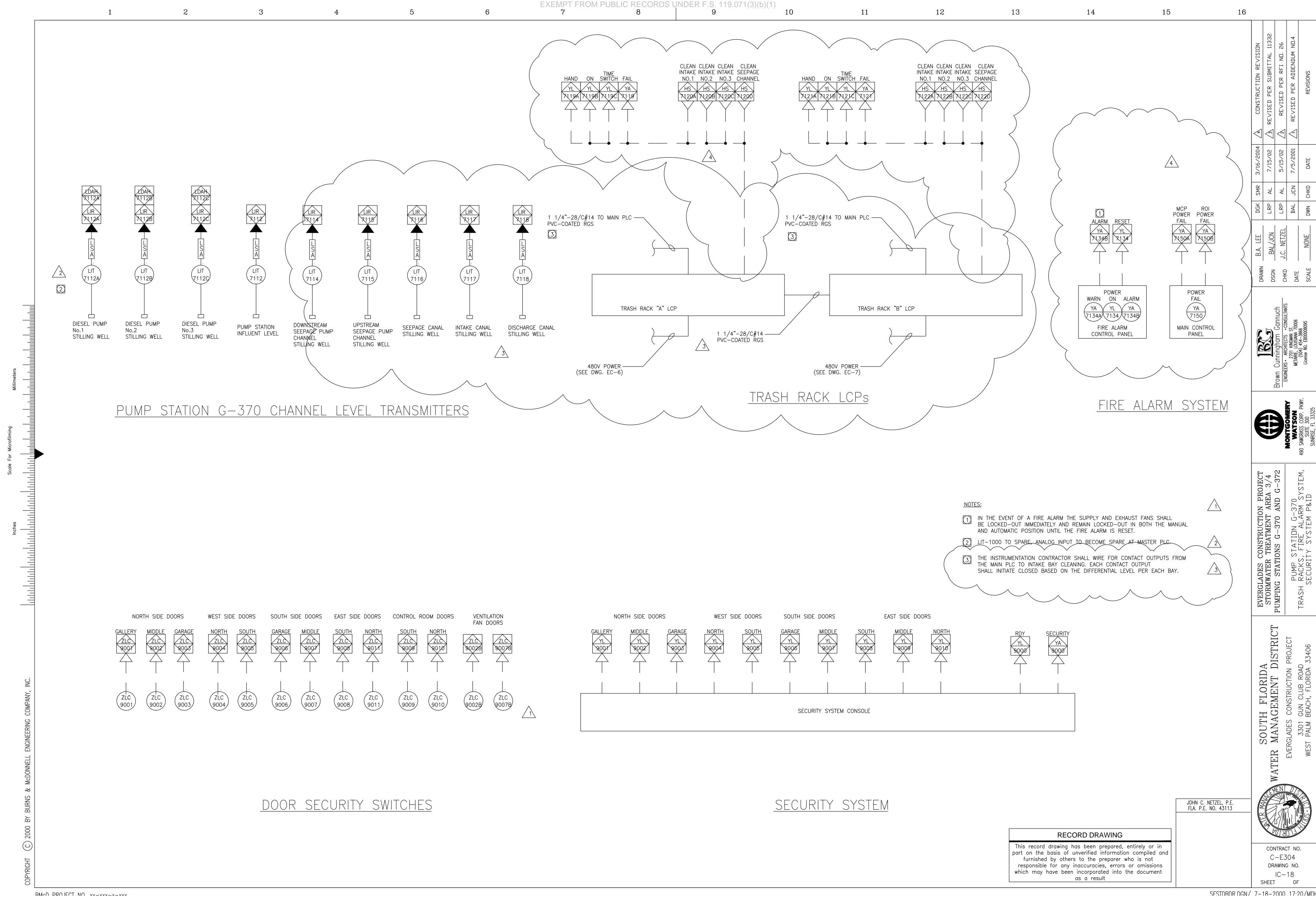


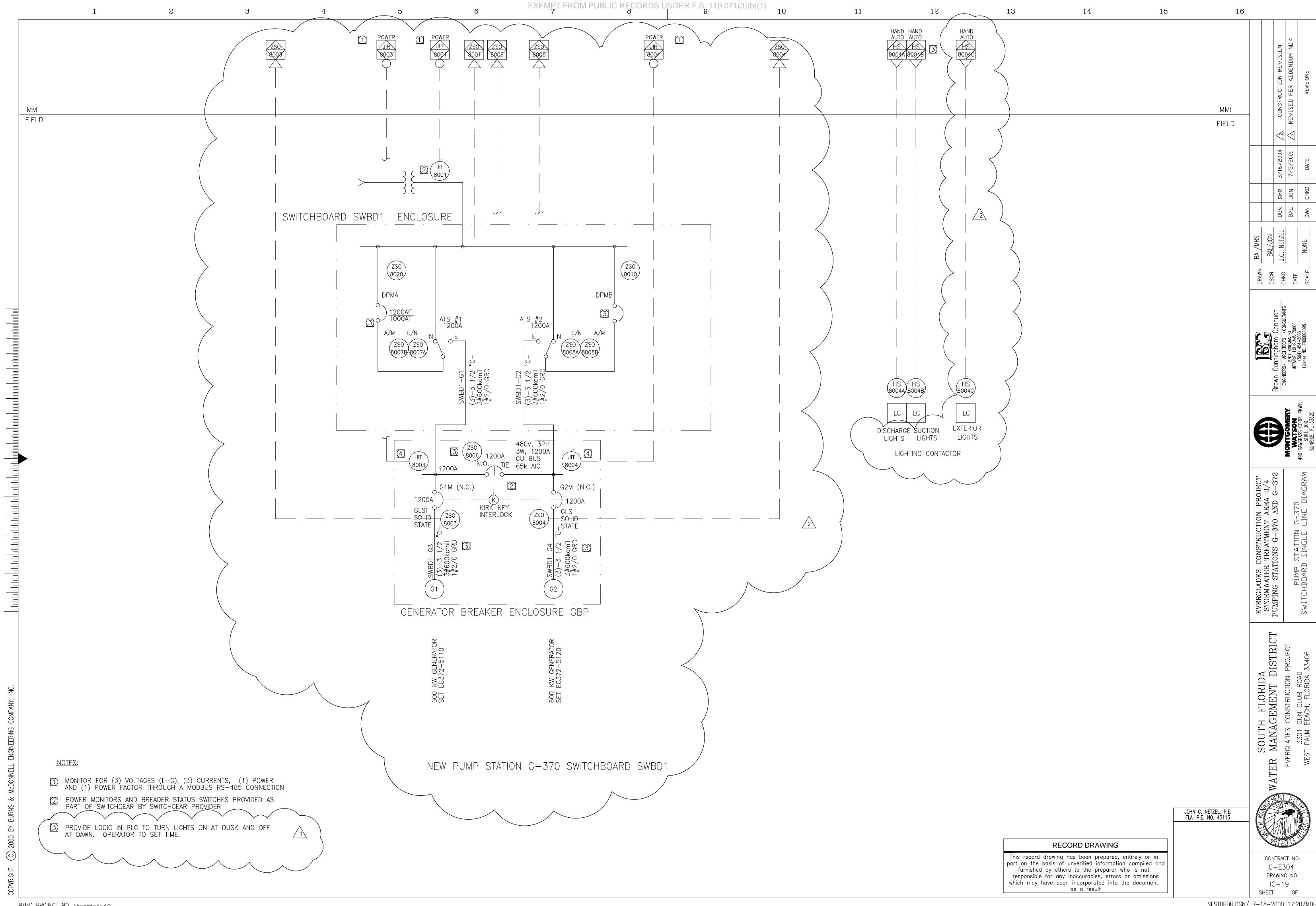


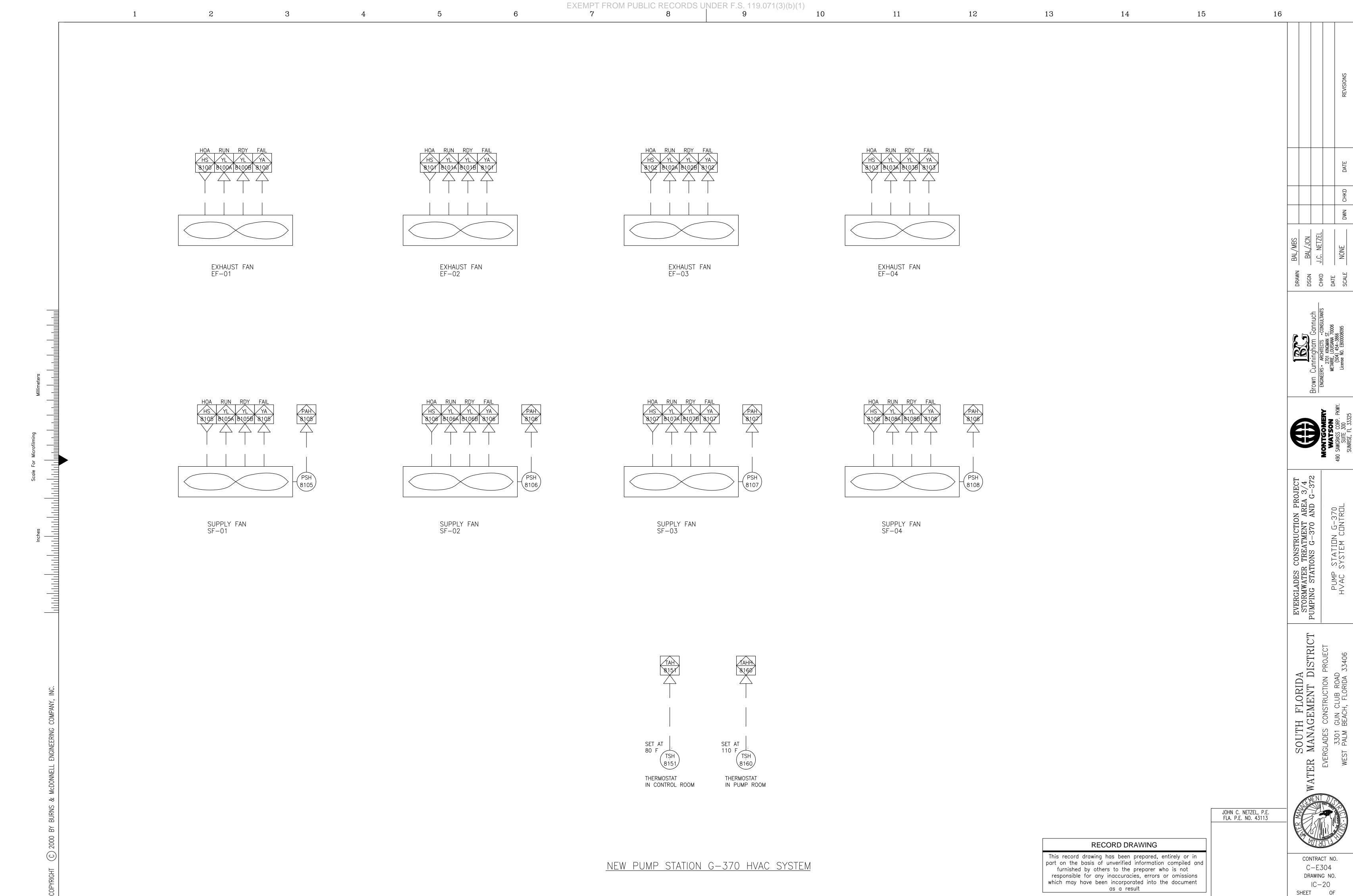












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SFSTNRNR NGN / 7_18_2000 17·20 /MDH

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10.00 10.0	-	+			-					
1.00 Sept. Performance	-	+					DISCRETE POINT		·	
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1-10 1-10					_					
\$ 200 base let 31 threaten to \$2500 to										
Color Colo	-	+				GEAR PRE-LUBE RUNNING			CYLINDER 2 TEMPERATURE, F	
1- 200	\	YA-1300H	ENGINE LUBE OIL TEMPERATURE LOW	DISCRETE POINT	YL-1300G	SERVICE WATER PUMPS RUNNING	DISCRETE POINT	TI-1300C	CYLINDER 3 TEMPERATURE, F	ANALOG VALUE
Description		·	ENGINE LUBE OIL FILTER DIRTY	l	YL-1300H	INFLOW PUMP SHAFT BEARING		TI-1300D	CYLINDER 4 TEMPERATURE, F	ANALOG VALUE
No.	/		SPARE			LUBRICATING WATER FLOW	DISCRETE POINT	TI-1300E	CYLINDER 5 TEMPERATURE, F	ANALOG VALUE
A STATE 1.000 1.		YA-1300K	IENGINE FUEL DAY TANK LEVEL LOW	DISCRETE POINT	YL-1300I	SERVICE WATER PUMP RUNNING	DISCRETE POINT	TI-1300F	CYLINDER 6 TEMPERATURE, F	ANALOG VALUE
1 1000				DISCRETE POINT	YL-1300J	VACCUUM ASSIST	DISCRETE POINT	TI-1300G	CYLINDER 7 TEMPERATURE, F	ANALOG VALUE
House spectrates transferred spectrates 2000 to 1000	\	YA-1300M	ENGINE FUEL PRESSURE LOW	DISCRETE POINT	YL-1300K	CONTROL START	DISCRETE POINT	TI-1300H	CYLINDER 8 TEMPERATURE, F	ANALOG VALUE
Base Actin	\	YA-1300N	ENGINE JACKET WATER TEMPERATURE LOW	DISCRETE POINT	YL-1300L	CONTROL STOP	DISCRETE POINT	TI-1301	ENGINE COMMON EXHAUST TEMPERATURE, F	
1-300 DOC MACH WITE SESSION LOAD DOSCIL POINT	\	YA-13000	ENGINE JACKET WATER TEMPERATURE HIGH	DISCRETE POINT					<u> </u>	
11-1006 STATE HOLD AT PRESSURE JOY DECRET POINT	\\	YA-1300P	ENGINE JACKET WATER TEMPERATURE HIGH—HIGH	DISCRETE POINT				TI-1303	ENGINE JACKET WATER INLET TEMPERATURE, F	ANALOG VALUE
MARIE CONVENCE SECURITY SEC	\	YA-1300Q	ENGINE JACKET WATER PRESSURE LOW	DISCRETE POINT				TI-1304	ENGINE JACKET WATER OUTLET TEMPERATURE, F	ANALOG VALUE
Pi 1500 Lingua	`	YA-1300R	STARTING AIR PRESSURE LOW	DISCRETE POINT				TI-1305	ENGINE AUXILIARY CIRCUIT PUMP	
H-1000 ENGINE CYMINER (LINE COLTROPTSTANT, F MAGG WALLE	`	YA-1300S	ENGINE CRANKCASE PRESSURE HIGH	DISCRETE POINT					OUTLET TEMPERATURE, F	ANALOG VALUE
VA-1300V ENGRE TEMPERATURE HIGH-HIGH DISCRETE FOINT VA-1300V ENGRE VERATION DISCRETE FOINT VA-1300V VERAF BERRING I LIBERICATIVE FOR LOW DISCRETE FOINT VA-1300V ENGRE VERAFING ELLIER OIL TUBER REPRETATIVE DISCRETE FOINT VA-1300V ENGRE VERAFING ELLIER FOINT DISCRETE FOINT	,	YA-1300T	ENGINE EXHAUST TEMPERATURE HIGH	DISCRETE POINT				PI-1302	ENGINE JACKET WATER PRESSURE	ANALOG VALUE
VA-1300V PNONE VERSION HIGH—HIGH DISCRETE FORT TI-1300 SAVERED HIGH ACTION OF THE POINT AND ACTION OF THE POINT TI-1300 FOR PRESSURE LOW DISCRETE FORT TI-1300 FOR PRESSURE LOW DISCRETE FORT TI-1300 FOR PRICE POINT	\	YA-1300U	ENGINE CYLINDER TEMPERATURE HIGH	DISCRETE POINT				TI-1306	ENGINE LUBE OIL TEMPERATURE, F	ANALOG VALUE
TI-13067 - ENGINE, VERATION HIGH. DISCRETE POINT TI-1306 247 IANK RELIVENTUL EMPERATURE, F. AVALOG VALUE VA-1300AM GEAR LUBE OL PRESSURE LOW DISCRETE POINT VA-1300AM GEAR LUBE OL LEVEL LOW DISCRETE POINT VA-1300AM GEAR LUBE OL LEVEL LOW DISCRETE POINT VA-1300AM GEAR LUBE OL INTER DIRRY DISCRETE POINT VA-1300AM DISCRETE POINT VA-1300F HIGH ENGINE CYLINDER TEMPERATURE DIFFERVIAL DISCRETE POINT VA-1300F HIGH ENGINE CYLINDER TEMPERATURE DIFFERVIAL DISCRETE POINT VA-1300F GEAR LUBE CYLINDER TEMPERATURE DIFFERVIAL DISCRETE POINT VA-1300F HIGH ENGINE CYLINDER TEMPERATURE DIFFERVIAL DISCRETE POINT VA-1300F GEAR LUBE CYLINDER TEMPERATURE DIFFERVIAL DISCRETE POINT VA-1300F GEAR LUBE CYLINDER TEMPERATURE DIFFERVIAL DISCRETE POINT	\	YA-1300V	ENGINE TEMPERATURE HIGH—HIGH	DISCRETE POINT				PI-1303	ENGINE LUBE OIL PRESSURE	ANALOG VALUE
A-1300Z - SCAR VIBRATION LIKE - LIVE FUNT - LISCREIT POINT - SCAR VIBRATION LIKE - LIVE FULL EMPERATURE, F ANALOG VALUE - SCAR VIBRATION LIKE - LIVE FUND - LISCREIT POINT - LISCREIT POINT - LISCREIT FOINT - LIVE FUND PEARING - LUBRICATING FLOW LOW DISCREIT POINT - LISCREIT FOINT - LIBRICATING FLOW LOW DISCREIT POINT - LISCREIT FOINT - LIBRICATING FLOW LOW DISCREIT POINT - LIBRICATING FLOW FUNDER TEMPERATURE OFFERENTIAL - LIBRICATING FLOW LOW DISCREIT POINT - LIBRICATING FLOW FUNDER TEMPERATURE OFFERENTIAL - LIBRICATING FLOW LOW DISCREIT POINT - LIBRICATING FLOW FUNDER TEMPERATURE OFFERENTIAL - LIBRI	\	YA-1300W	ENGINE VIBRATION HIGH-HIGH	DISCRETE POINT				11-1307	GEARLUBE OIL TEMPERATURE, F	ANALOG VALUE
T-13002 SEAR VERSON HEAT DISCRETE POINT YA-13002 SEAR VERSON HEAT DISCRETE POINT YA-1300A GLAR LUBE OIL PRESSURE LOW DISCRETE POINT YA-1300C GEAR LUBE OIL LEVEL LOW DISCRETE POINT YA-1300C GEAR LUBE OIL FILTER DIRTY DISCRETE POINT YA-1300C HIGHON PUMP BEARING 1 LUBRICATING FLOW LOW DISCRETE POINT YA-1300CT HIGH DISCRETE POINT YA-1300CF HIGH DISCRETE POINT ALARM DISCRETE POINT ALARM DISCRETE POINT TO SCHELE POINT		YA-1300X	ENGINE VIBRATION HIGH	DISCRETE POINT					3	
TA-1300Z BEAR VIBERATION-HIBS DISCRETE POINT YA-1300AA GEAR LUBE OIL PRESSURE LOW DISCRETE POINT YA-1300BB GEAR LUBE OIL LEVEL LOW DISCRETE POINT YA-1300C GEAR LUBE OIL FLIER DISTY DISCRETE POINT YA-1300C FLOW PLIMP BEARING 1 LUBRICATING FLOW LOW DISCRETE POINT YA-1300CF HIGH ENGINE CYLINDER TEMPERATURE DIFFERENTIAL ALARM DISCRETE POINT TI-130B DAY TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE HI-130Q FOR LUBY RATE AMALOS VALUE AMALOS VALUE TI-130B DAY TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE HI-130Q FOR LUBY RATE AMALOS VALUE TI-130B DAY TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE TI-130B DAY TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE TI-130Q FOR LUBY RATE AMALOS VALUE TI-130D FOR LUBY RATE TIMELOS VALUE AMALOS VALUE TI-130D FOR LUBY RATE TIMELOS VALUE AMALOS VALUE TI-130Q FOR LUBY RATE TIMELOS VALUE TI-130D FOR TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE TI-130D FOR TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE TI-130Q FOR TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE TI-130Q FOR TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE TI-130Q FOR TANK RETURN TUKE I TEMPERATURE, I' AMALOS VALUE TI-130Q FOR TANK RETURN TO TANK THE TEMPERATURE, I' AMALOS VALUE TI-130Q FOR TANK RETURN TO TANK THE TEMPERATURE, I' AMALOS VALUE TI-130Q FOR TANK RETURN TO TANK THE TEMPERATURE, I' AMALOS VALUE TI-130Q FOR TANK RETURN TO TANK THE TEMPERATURE, I' AMALOS VALUE TI-130Q FOR TANK THE TEMPERATURE, I' AMALOS VALUE TI-130Q			3							
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YA-1300CC GEAR LUBE OIL FILTER DIRTY DISCRETE POINT YA-1300CD INFLOW PUMP BEARING 1 LUBRICATING FLOW LOW DISCRETE POINT YA-1300EF INFLOW PUMP BEARING 2 LUBRICATING-FLOW LOW DISCRETE POINT YA-1300FF HIGH ENGINE CYLINDER TEMPERATURE DIFFERENTIAL ALARM DISCRETE POINT YA-1308GG PLIMPING SYSTEM-GOMPROLS NOT IN AUTO DISCRETE POINT	Y	′A-1300AA	GEAR LUBE OIL PRESSURE LOW	DISCRETE POINT				FI-1300	FUEL FLOW RATE	ANALOG VALUE
YA-1300DD INFLOW PUMP BEARING 1 LUBRICATING FLOW LOW DISCRETE POINT YA-1300EE INFLOW PUMP BEARING 2 LUBRICATING FLOW LOW DISCRETE POINT YA-1300FF HIGH ENGINE CYLINDER TEMPERATURE DIFFERENTIAL ALARM DISCRETE POINT TA-1300GC PLUMPING SYSTEM CONTROLS NOT IN AUTO DISCRETE POINT	Y	⁄A-1300BB	GEAR LUBE OIL LEVEL LOW	DISCRETE POINT					3	
YA-1300FE INFLOW PUMP BEARING 2 LUBRICATING-FLOW LOW DISCRETE POINT YA-1300FF HIGH ENGINE CYLINDER TEMPERATURE DIFFERENTIAL ALARM DISCRETE POINT YA-1300GG RUMPING SYSTEM SCHRFOLS-NOT IN AUTO DISCRETE POINT	Y	⁄A-1300CC	GEAR LUBE OIL FILTER DIRTY	DISCRETE POINT						
YA-1300FF HIGH ENGINE CYLINDER TEMPERATURE DIFFERENTIAL ALARM DISCRETE POINT YA-1300GG RUMPING SYSTEM CONTROLS NOT IN AUTO DISCRETE POINT	Y	′A-1300DD	INFLOW PUMP BEARING 1 LUBRICATING FLOW LOW	DISCRETE POINT						
ALARM DISCRETE POINT YA-1300GG PUMPING SYSTEM CONFROLS NOT IN AUTO DISCRETE POINT	Y	/A-1300EE	INFLOW PUMP BEARING 2 LUBRICATING FLOW LOW	DISCRETE POINT						
YA-130QG PUMPING SYSTEM CONFROLS NOT IN AUTO DISCRETE POINT	\[\rac{\text{Y}}{	⁄A-1300FF	HIGH ENGINE CYLINDER TEMPERATURE DIFFERENTIAL							
				<u>~ ~ / / / / / / / / / / / / / / / / / /</u>						
YA-1300HH VACUUM SYSTEM TROUBLE DISCRETE POINT	7	A-1300GG	PUMPING SYSTEM CONTROLS NOT IN AUTO	DISCRETE POINT						
	Y	′A-1300HH	VACUUM SYSTEM TROUBLE	DISCRETE POINT						
					 					

NEW PUMP STATION G-370

DIESEL ENGINE PUMP P-1 SIGNALS TO MAIN CONTROL PANEL

JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

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CONTRACT NO. C-E304 DRAWING NO. IC-21 SHEET OF

SOUTH FLORIDA
RANAGEMENT DISTRICT
VERGLADES CONSTRUCTION PROJECT
3301 GUN CLUB ROAD
VEST PALM BEACH, FLORIDA 33406

LOOP NO. DESCRIPTION //O TYPE COMMENTS LOOP NO. DESCRIPTION YL-1400A READY TO AUTO START DISCRETE POINT SI-1400 ENGINE SPEED, IT YL-1400B START SEQUENCE INITIATED, YL-1400B START SEQUENCE INITIATED, PRE-LUBE PLUMP RUNNING DISCRETE POINT PI-1401 INITIAL MAINFOUL YL-1400C ENGINE LUBE OIL PRESSURE LOW DISCRETE POINT VI-1400C ENGINE RUNNING AT DISCRETE POINT VI-1400 ENGINE RUNNING DISCRETE POINT VI-1401 ENGINE VIBRAIL YL-1400C ENGINE RUNNING DISCRETE POINT VI-1400C OF ARRAPHOLOGY INITIATED, ENGINE COOLING DOWN DISCRETE POINT VI-1400C CYUNDER 2 TEI YL-1400C ENGINE RUBE OIL TEMPERATURE ROWN DISCRETE POINT VI-1400C SERVICE WATER PUMPS RUNNING DISCRETE POINT VI-1400C CYUNDER 3 TEI YL-1400C ENGINE RUBE OIL FURE RUNNING DISCRETE POINT VI-1400C CYUNDER 3 TEI YL-1400C INTERCOLLER COCLING WATER FLOW LOW DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMPS RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DISCRETE POINT VI-1400C CYUNDER 5 TEI YL-1400C SERVICE WATER PUMP RUNNING DI	ING TIME, HRS D PRESSURE, IN HG FION, CHANNEL 1 TON, CHANNEL 2 EMPERATURE, F EMPERATURE, F	SS DATA HIGHWAY I/O TYPE COI ANALOG VALUE ANALOG VALUE
YA-1400A LOOK OUT DISCRETE POINT YL-1400A READY TO AUTO START DISCRETE POINT START SEQUENCE INITIATED, YA-1400B ENGINE OVER-SPEED DISCRETE POINT PI-1400 ENGINE UNDER-SPEED DISCRETE POINT PI-1400 ENGINE UNDER RUNNING AT RATED SPEED DISCRETE POINT PI-1400 ENGINE UNDER RUNNING AT RATED SPEED DISCRETE POINT PI-1400 ENGINE UNDER RUNNING AT RATED SPEED DISCRETE POINT PI-1400 ENGINE UNDER RUNNING AT RATED SPEED DISCRETE POINT PI-1400 ENGINE UNDER RUNNING AT RATED SPEED DISCRETE POINT PI-1400 ENGINE UNDER RUNNING AT RATED SPEED DISCRETE POINT PI-1400 ENGINE UNDER SPEED DISCRETE POINT PI-1400 ENGINE PI-14	ING TIME, HRS D PRESSURE, IN HG FION, CHANNEL 1 TON, CHANNEL 2 MPERATURE, F	ANALOG VALUE
YA-1400B ENGINE OVER-CRANK DISCRETE POINT YL-1400B START SEQUENCE INITIATED, YA-1400C ENGINE OVER-SPEED DISCRETE POINT PRE-LUBE PUMP RUNNING DISCRETE POINT PRE-LUBE RUNNING AT IDLE SPEED DISCRETE POINT PL-1400 ENGINE UNDER-SPEED DISCRETE POINT PL-1400 ENGINE RUNNING AT IDLE SPEED DISCRETE POINT PL-1400 ENGINE RUNNING AT IDLE SPEED DISCRETE POINT PL-1400 ENGINE RUNNING AT IDLE SPEED DISCRETE POINT PL-1400 ENGINE RUNNING AT RATED SPEED DISCRETE POINT PL-1400 ENGINE RUNNING AT RATED SPEED DISCRETE POINT PL-1400 CYLINDER 1 TE-1400A CYLINDER 1 TE-1400B ENGINE LUBE OIL TEMPERATURE HIGH DISCRETE POINT PL-1400B SERVICE WATER PUMPS RUNNING DISCRETE POINT TI-1400C CYLINDER 2 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 3 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 3 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 4 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 3 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 4 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 5 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 5 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 5 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 5 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 5 TE-1400B ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 5 TE-1400B ENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT TI-1400F CYLINDER 6 TE-1400B ENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT TI-1400F CYLINDER 6 TE-1400B ENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT TI-1400F CYLINDER 6 TE-1400B ENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT TI-1400F CYLINDER 6 TE-1400B ENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT TI-1400F CYLINDER 6 TE-1400B ENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT TI-1400F CYLINDER 6 TE-1400B ENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT TI-1400F CYLINDER 6 TE-1400B EN	ING TIME, HRS D PRESSURE, IN HG FION, CHANNEL 1 TON, CHANNEL 2 MPERATURE, F	ANALOG VALUE
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YA-14006 ENGINE LUBE OIL TEMPERATURE HIGH DISCRETE POINT YL-1400F GEAR PRE-LUBE RUNNING DISCRETE POINT TI-1400B CYLINDER 2 TEMPERATURE LOW DISCRETE POINT YL-1400G SERVICE WATER PUMPS RUNNING DISCRETE POINT TI-1400C CYLINDER 3 TEMPERATURE LUBE OIL FILTER DIRTY DISCRETE POINT YL-1400H INFLOW PUMP SHAFT BEARING TI-1400D CYLINDER 4 TEMPERATURE LOW DISCRETE POINT TI-1400C CYLINDER 5 TEMPERATURE LOW DISCRETE POINT TI-1400F CYLINDER 5 TEMPERATURE LOW DISCRETE POINT TI-1400F CYLINDER 6 TEMPERATURE HIGH DISCRETE POINT TI-1400B CYLINDER 2 TEMPERATURE HIGH TI-1400B CYLINDER 3 TEMPERATURE HIGH TI-1400B CYLINDER 3 TEMPERATURE HIGH TI-1400B CYLINDER 3 TEMPERATURE HIGH TI-1400C CYLINDER 4 TEMPERATURE HIGH TI-1400B CYLINDER 5 TEMPERATURE HIGH TI-1400B CYLINDER 6 TEMPERATURE HIGH TI-1400B CYLINDER HIGH TI-1400B C	EMPERATURE, F	ANALOG VALUE ANALOG VALUE ANALOG VALUE ANALOG VALUE ANALOG VALUE
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YA-1400I ENGINE LUBE OIL FILTER DIRTY DISCRETE POINT YL-1400H INFLOW PUMP SHAFT BEARING TI-1400D CYLINDER 4 TEN LUBRICATING WATER FLOW TI-1400E CYLINDER 5 TEN YL-1400K IENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT TI-1400F CYLINDER 6 TEN TI-1400F CYLINDER 6 TEN	EMPERATURE, F	ANALOG VALUE ANALOG VALUE ANALOG VALUE
YA-1400J INTERCOOLER COOLING WATER FLOW LOW DISCRETE POINT LUBRICATING WATER FLOW YA-1400K IENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT YL-1400I SERVICE WATER PUMP RUNNING DISCRETE POINT TI-1400F CYLINDER 5 TEN TI-1400F CYLINDER 6 TEN	EMPERATURE, F EMPERATURE, F EMPERATURE, F EMPERATURE, F EMPERATURE, F EMPERATURE, F	ANALOG VALUE ANALOG VALUE
YA-1400K IENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT YL-1400I SERVICE WATER PUMP RUNNING DISCRETE POINT TI-1400F CYLINDER 6 TEN	IMPERATURE, F A IMPERATURE, F A IMPERATURE, F A	ANALOG VALUE
	IMPERATURE, F A IMPERATURE, F A	+
A-1400L FNGINE FLIEL DAY TANK LEVEL HIGH DISCRETE POINT YL-1400G CYLINDER 7 TEI	IMPERATURE, F	ANALOG VALUE
A TIOU ENGINE TOLE BAT TAIN LEVEL TION		
A-1400M ENGINE FUEL PRESSURE LOW DISCRETE POINT YL-1400K CONTROL START DISCRETE POINT TI-1400H CYLINDER 8 TEN		ANALOG VALUE
		ANALOG VALUE
A-14000 ENGINE JACKET WATER TEMPERATURE HIGH DISCRETE POINT	\uparrow_1	
	ET WATER INLET TEMPERATURE, F	ANALOG VALUE
		ANALOG VALUE
	RY CIRCUIT PUMP	
A-1400S ENGINE CRANKCASE PRESSURE HIGH DISCRETE POINT OUTLET TEMPER		ANALOG VALUE
A-1400T ENGINE EXHAUST TEMPERATURE HIGH DISCRETE POINT PI-1402 ENGINE JACKET	T WATER PRESSURE A	ANALOG VALUE
A-1400U ENGINE CYLINDER TEMPERATURE HIGH DISCRETE POINT TI-1406 ENGINE LUBE O	DIL TEMPERATURE, F	ANALOG VALUE
A-1400V ENGINE TEMPERATURE HIGH-HIGH DISCRETE POINT PI-1403 ENGINE LUBE C		ANALOG VALUE
A-1400W ENGINE VIBRATION HIGH-HIGH DISCRETE POINT TI-1407 GEARLUBE OIL		ANALOG VALUE
ENGINE VIBRATION HIGH DISCRETE POINT		
A-1400Z GEAR VIBRATION HIGH DISCRETE POINT TI-1408 DAY TANK RETU	URN FUEL TEMPERATURE, F A	ANALOG VALUE
-1400AA GEAR LUBE OIL PRESSURE LOW DISCRETE POINT FI-1400 FUEL FLOW RA		ANALOG VALUE
-1400BB GEAR LUBE OIL LEVEL LOW DISCRETE POINT		
-1400CC GEAR LUBE OIL FILTER DIRTY DISCRETE POINT		
-1400DD INFLOW PUMP BEARING 1 LUBRICATING FLOW LOW DISCRETE POINT		
-1400EE INFLOW PUMP BEARING 2 LUBRICATING FLOW LOW DISCRETE POINT		
-1400FF INFLOW PUMP LINESHAFT BEARING		
LUBRICATING FLOW LOW DISCRETE POINT		
-1400GG PUMPING SYSTEM CONTROLS NOT IN AUTO DISCRETE POINT		
-1400HH VACUUM SYSTEM TROUBLE DISCRETE POINT		

NEW PUMP STATION G-370

DIESEL ENGINE PUMP P-2 SIGNALS TO MAIN CONTROL PANEL

JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

RECORD DRAWING

This record drawing has been prepared, entirely or in part on the basis of unverified information compiled and furnished by others to the preparer who is not responsible for any inaccuracies, errors or omissions which may have been incorporated into the document as a result

CONTRACT NO. C-E304 DRAWING NO. 1C - 22SHEET OF

SOUTH FLORIDA

RANAGEMENT DISTRICT
VERGLADES CONSTRUCTION PROJECT

3301 GUN CLUB ROAD
VEST PALM BEACH, FLORIDA 33406

NEW PUMP STATION G-370

DIESEL ENGINE PUMP P-3 SIGNALS TO MAIN CONTROL PANEL

EXEMPT FROM PUBLIC RECORDS UNDER F.S. 119.071(3)(b)(1)

JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

RECORD DRAWING

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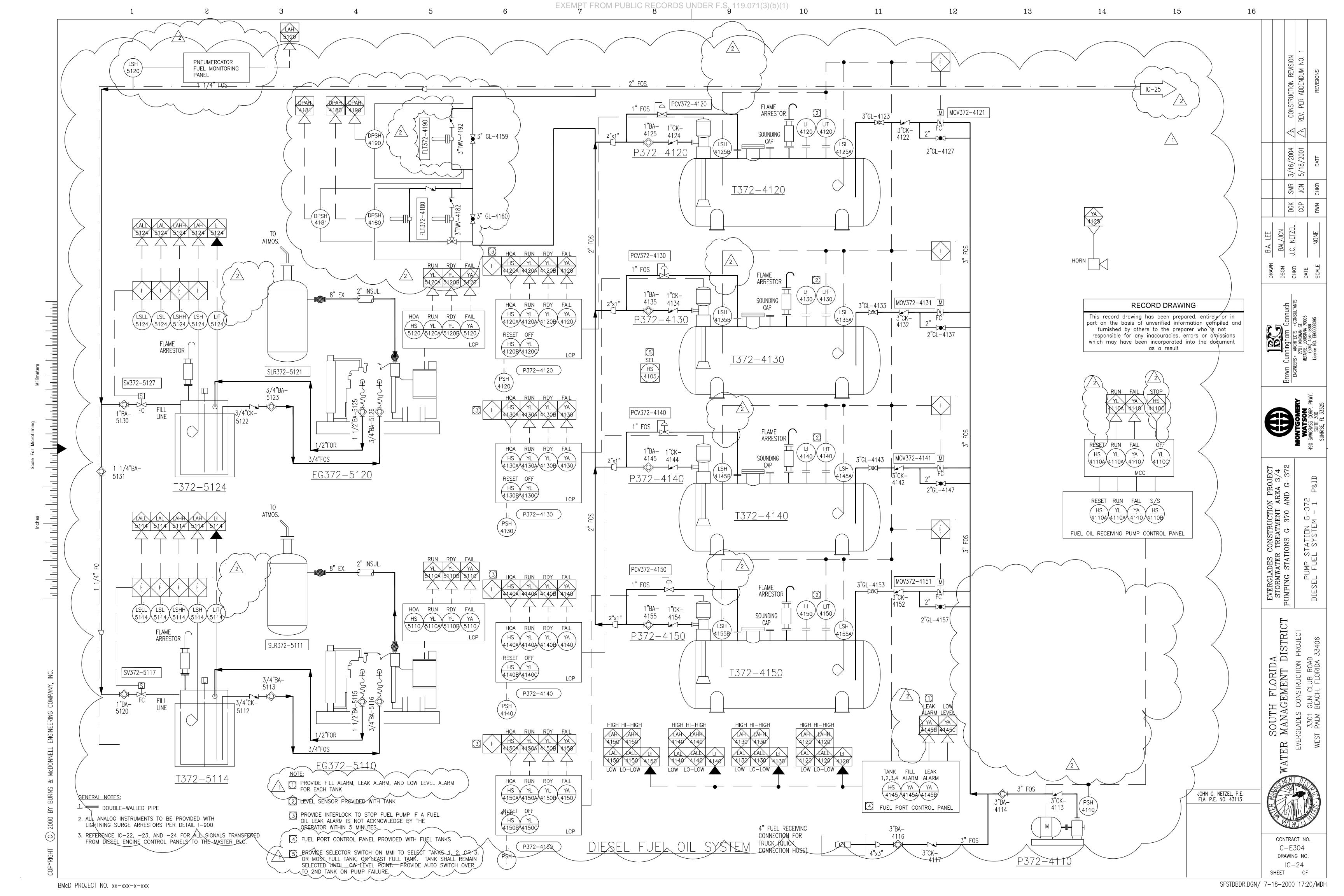
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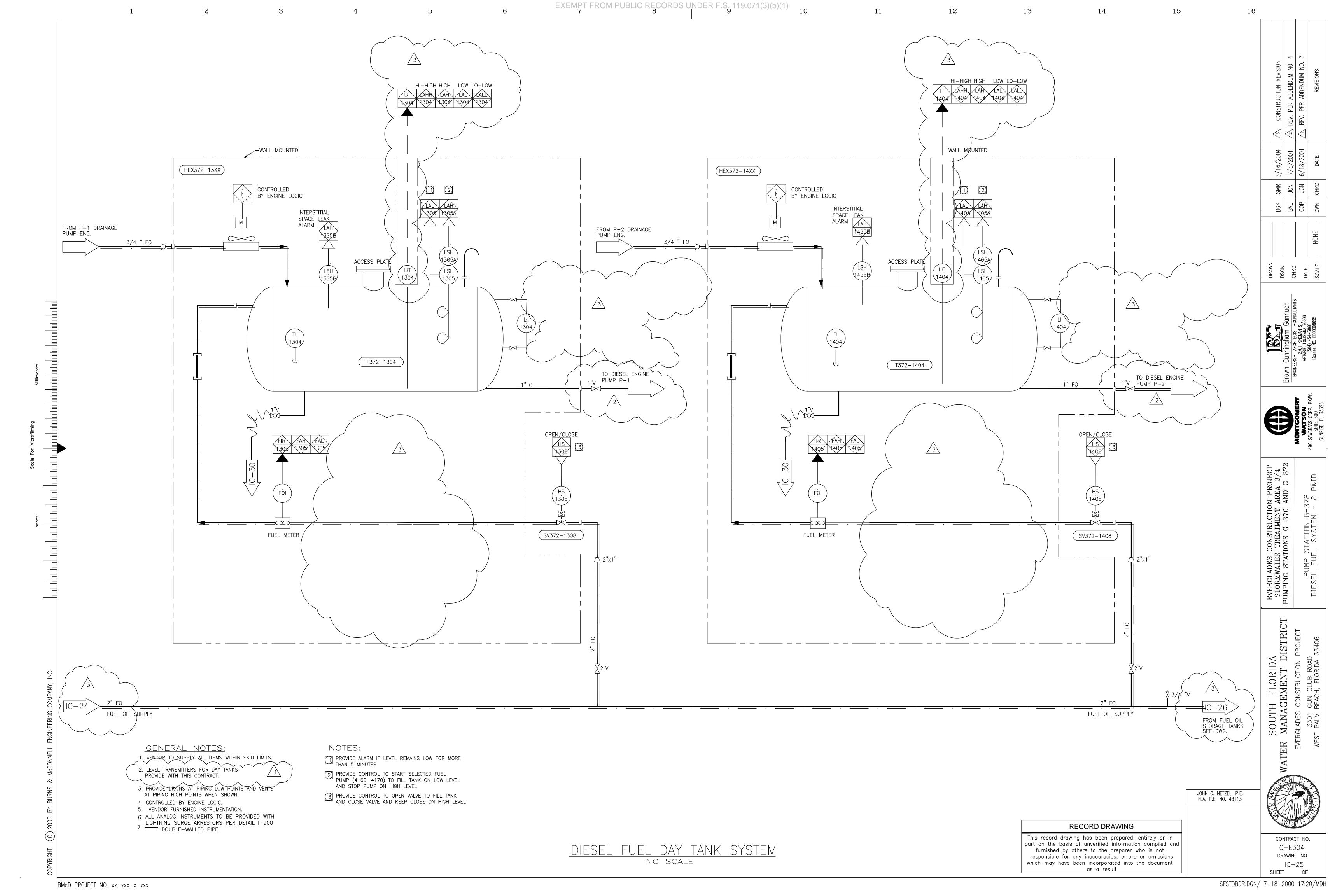
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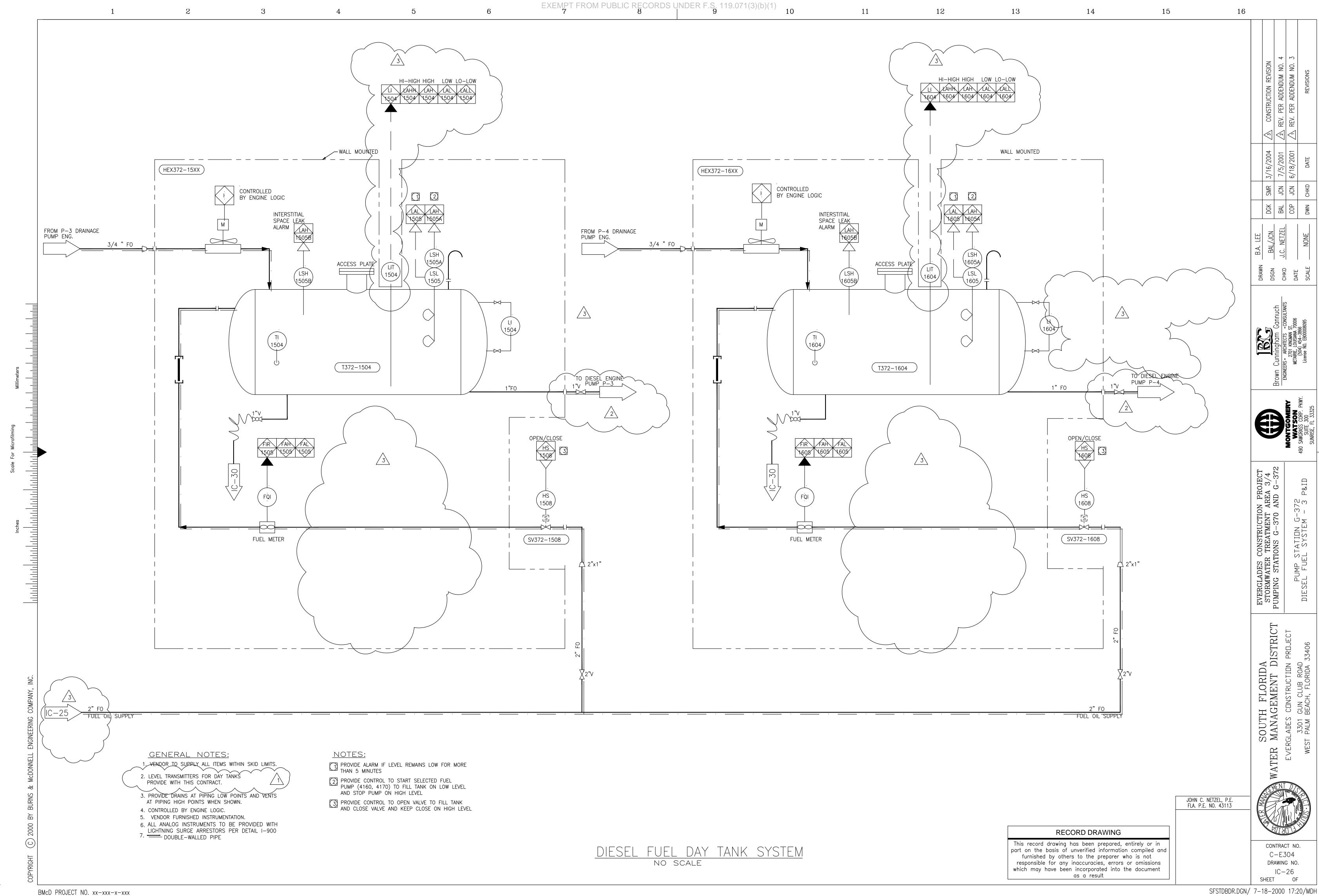
as a result

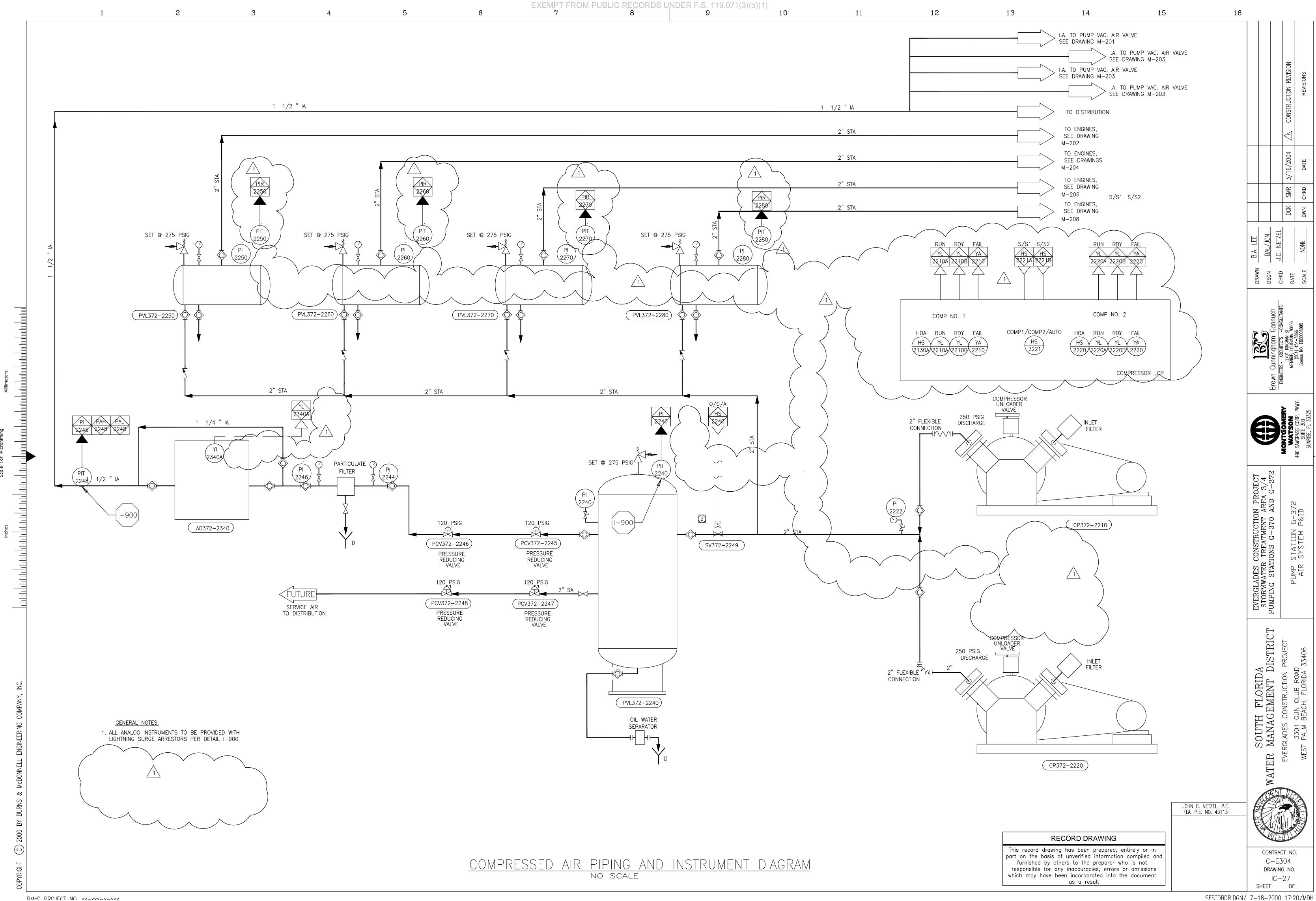
CONTRACT NO. C-E304 DRAWING NO. IC-23 SHEET OF

SOUTH FLORIDA MANAGEMENT DISTRICT

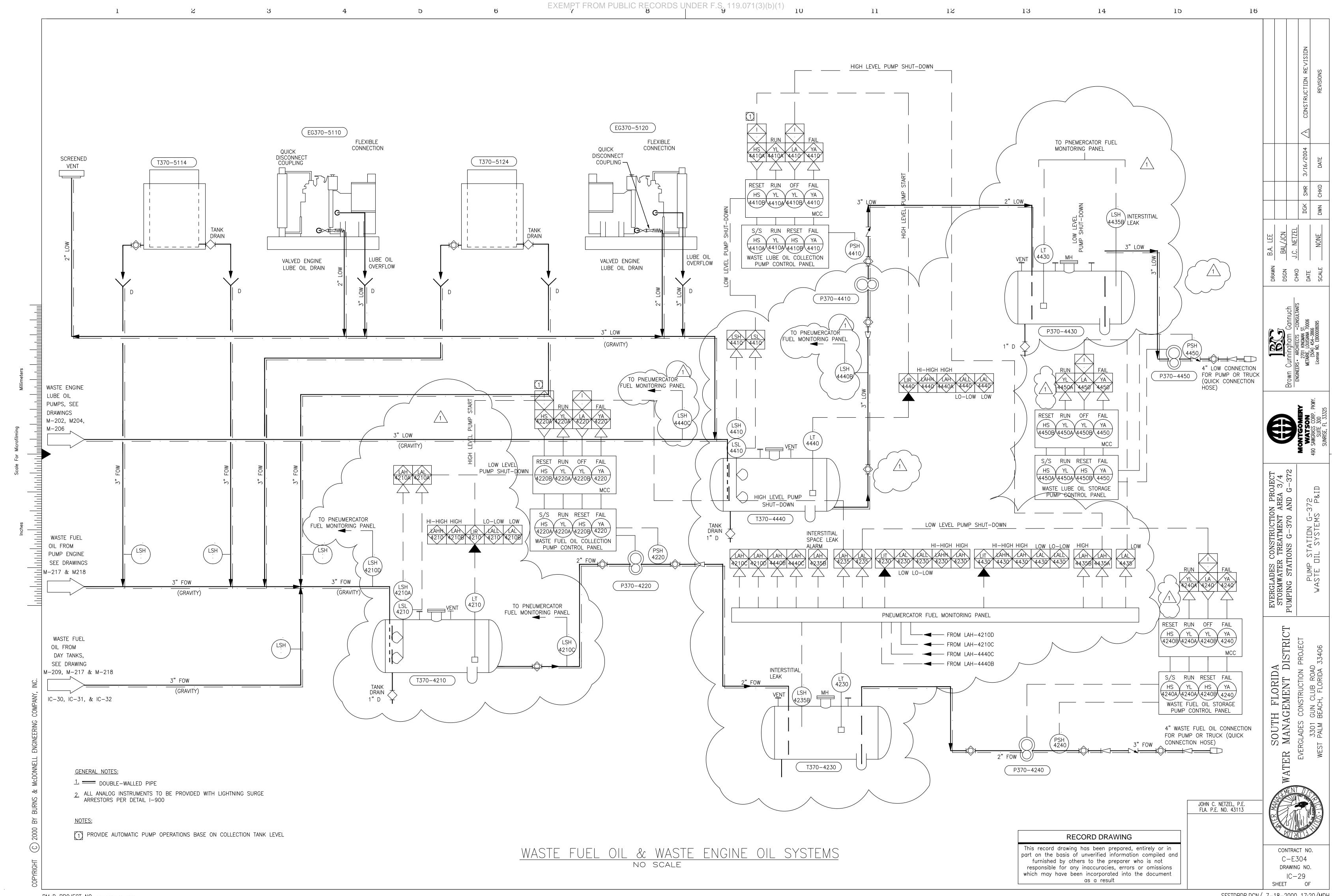


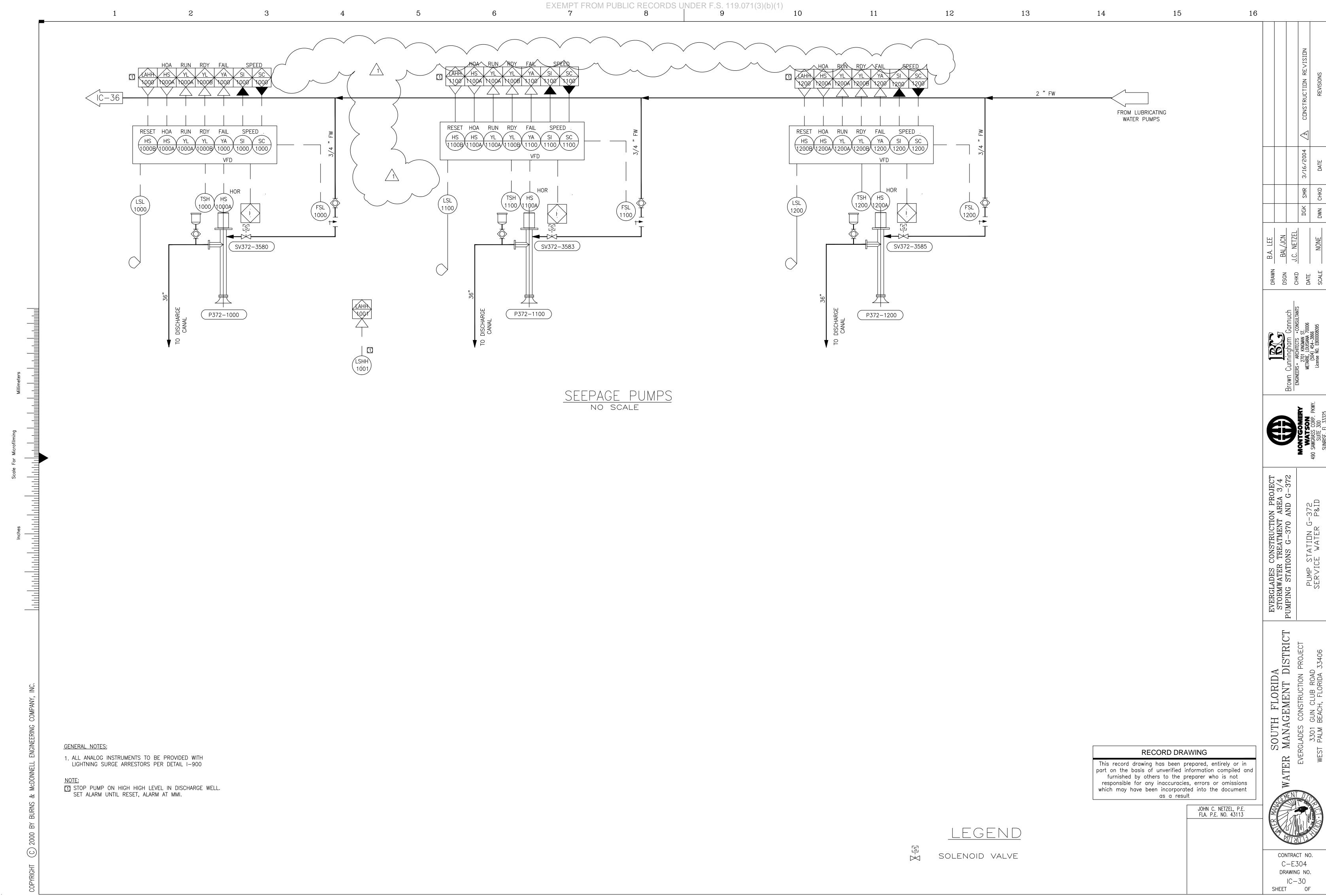




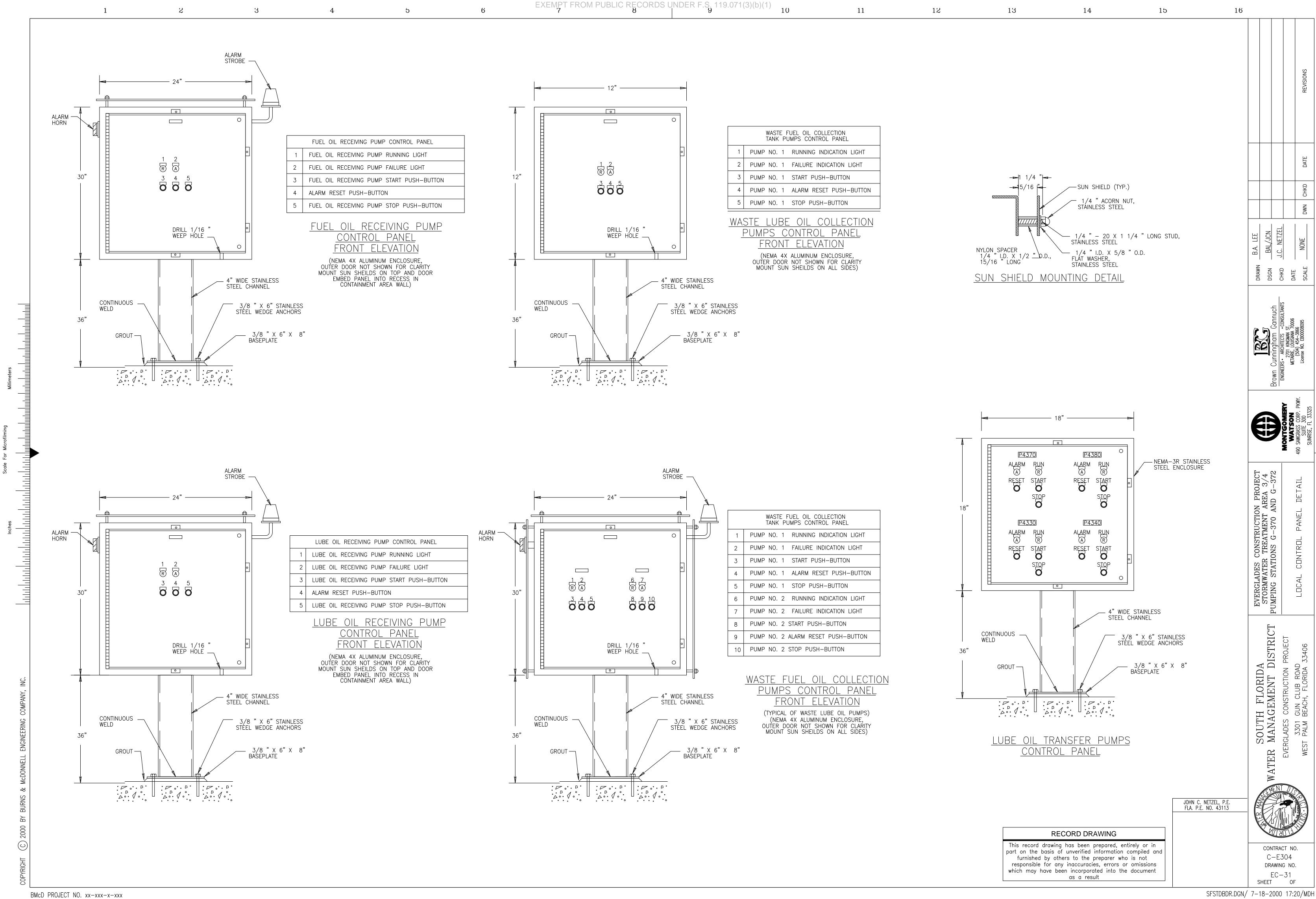


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RMAN PROJECT NO VV-VVV-V-VVV



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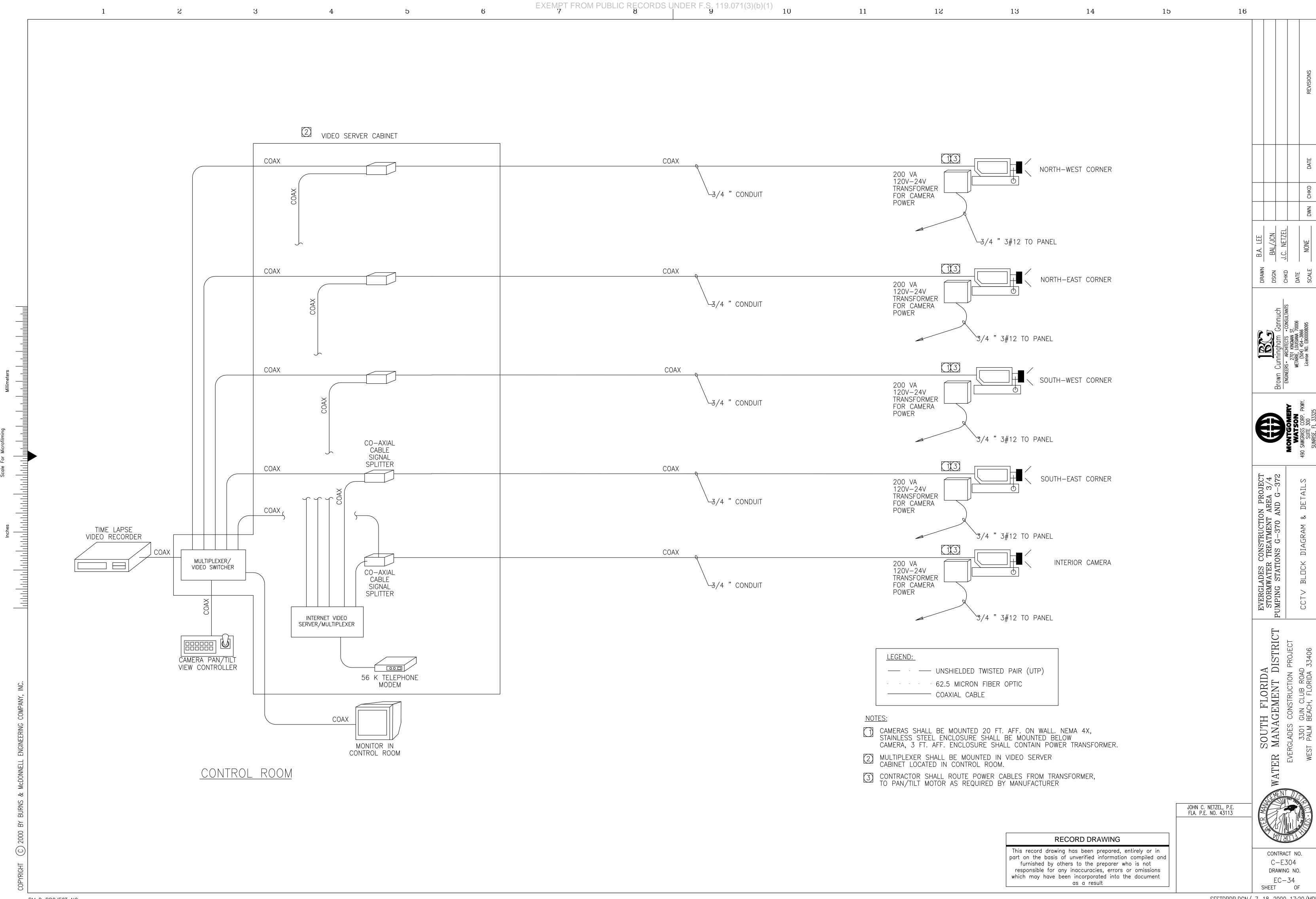
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480-277 VOLTS	3 p	4_ W) V				<u>-</u> R				FEED BOTTOM	
125 A, MCB MAIN	1/01	T AMP	EDE		LOC	JATIO I	<u>N </u>		<u>- L</u>	JI	<u>S.E.</u> T	<u>cur</u> T	NEK	<u> </u>	- 	V/OL	T AMP	EDE T	MTG SURFACE	
LOAD DESCRIPTION	ΦA	DB	ΦC	LTG	REC	MIS	CIR	BKR			BKR	CIR	MIS	REC	LTG	ΦA	DB	ФC	LOAD DESCRIPTION	
MOV 370 2113	582					1	1	20	+		- 20	2				582			MOV 370 4121	
		582					3]+		-	4					582			
A			582				5]+	+	-	6						582	V	
MOV 370 2109	582						7	20	 		- 20	8				582			MOV 370 4131	
		582					9]+	+	_	10					582			
7			582				11]+	+	+	12						582	V	
MOV 370 2119	582						13	20	1+		- 20	14				582			MOV 370 4141	
		582					15		1+		-	16					582			
V			582				17		-	+	+	18						582	V	
MOV 370 2123	582						19	20	 		- 20	20				582			MOV 370 4151	
		582					21		1+	+	-	22					582			
V			582				23		1+	+	+	24						582	V	
MOV 370 2138	582						25	20	 -		- 20	26				582			MOV 370 1331	
		582					27]+	+	-	28					582			
7			582				29]+	+	+	30						582	A	
SPARE							31	20	 		20	32							SPARE	
SPARE								20			20	34							SPARE	
SPARE							35	20]+	+		36							SPARE	
							37/		<u> </u>		_	\38								
							36]+	+	_	40								
							/ 4 \]+	+	-	42								
	2910	2910	2910				ТО	TAL			ТО	ΓAL				2910	2910	2910		
	PH	HASE T	ΓΟΤΑL					Ţ	ОТА	rr rc)AD									
	5.8K	5.8K	5.8K			1	7.4	6 KV	Ά ((2	l Al	ΛP)								

NOTE:

1. NEW DRAWING AS PER RFI 117

RECORD DRAWING

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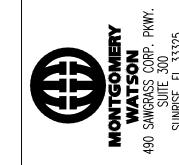
Cunningham Gannuch
NEERS - ARCHITECTS - CONSULTANTS
METARIE, LOUISIANA 70006
(504) 454–3866
License NO. EB00008095
SCALE NONE DWN CHKD DATE

DRAWN B.A. LEE

CHKD J.C. NETZEL

A.C. NETZEL

DWN CHKD DATE



CTION PROJECT
ENT AREA 3/4
170 AND G-372

NG-370

STORMWATER TREATMENT ARI

SOUTH FLORIDA
FER MANAGEMENT DISTRICT
EVERGLADES CONSTRUCTION PROJECT
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

JOHN C. NETZEL, P.E.
FLA. P.E. NO. 43113

CONTRACT NO.

C-E304

DRAWING NO.

EC-35

SHEET OF

190 277		1				NICI	D.O.	. A D.	`	MO	\ /	\/\!	\/F		-D					BC	TTOM
480-277 VOLTS <u>3</u> 125 A, MCB MAIN	_ (V	<u>+</u> W									V S.W.		<u>VE F</u> RNER		- IT				FEED MTG	0	RFACE
	VOL	T AMP	ERE													VOL	T AMP	ERE			
LOAD DESCRIPTION	ΦА	ΦВ	ФС	LIG	REC	MIS	CIR	BKK			BKK	CIR	MIS	REC	LIG	ΦА	ΦВ		L(DAD DE	SCRIPTION
MOV 372 2113	582					1	1	20	+		- 20	2				582				MOV .	372 4121
		582					3]+	\rightarrow	_	4					582				
V			582				5		1+	+	-	6						582			A
MOV 372 2109	582						7	20]+		- 20	8				582				MOV .	372 4131
		582					9]+	\rightarrow	_	10					582				
A			582				11]+	\dashv	-	12						582			A
MOV 372 2119	582						13	20]+		- 20	14				582				MOV .	372 4141
		582					15]+	\rightarrow	_	16					582				
V V			582				17]+	\dashv	-	18						582			\(\frac{1}{2}\)
MOV 372 2123	582						19	20	1		- 20	20				582				MOV .	372 4151
		582					21]+	\rightarrow	_	22					582				
V			582				23]+	\dashv	-	24						582			A
MOV 372 2138	582						25	20	1+		- 20	26				582				MOV 3	372 1331
		582					27]+	\rightarrow	_	28					582				
V			582				29]+	\dashv	-	30						582			Y
SPARE							31	20	$\Big] \frac{1}{2}$		- 20	32							SPARE		
SPARE								20		\rightarrow	- 20	34							SPARE		
SPARE								20		\dashv	20	36							SPARE		
							37/		$\Big] $		_	38/									
							36]+	\rightarrow	_	46									
							/ 4 1\]+	+	-	42									
	2910	2910	2910				ТС	TAL			ТО	TAL				2910	2910	2910			
	Pl	HASE 1	ΓΟΤΑL					Т	OTA	AL LO)AD										
	5.8K	5.8K	5.8K			1	17.4	.6 KV	/A ((21	Al	MP)									

NOTE:

EXEMPT FROM PUBLIC RECORDS UNDER F.S. 119.071(3)(b)(1)

1. NEW DRAWING AS PER RFI 117

JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

15

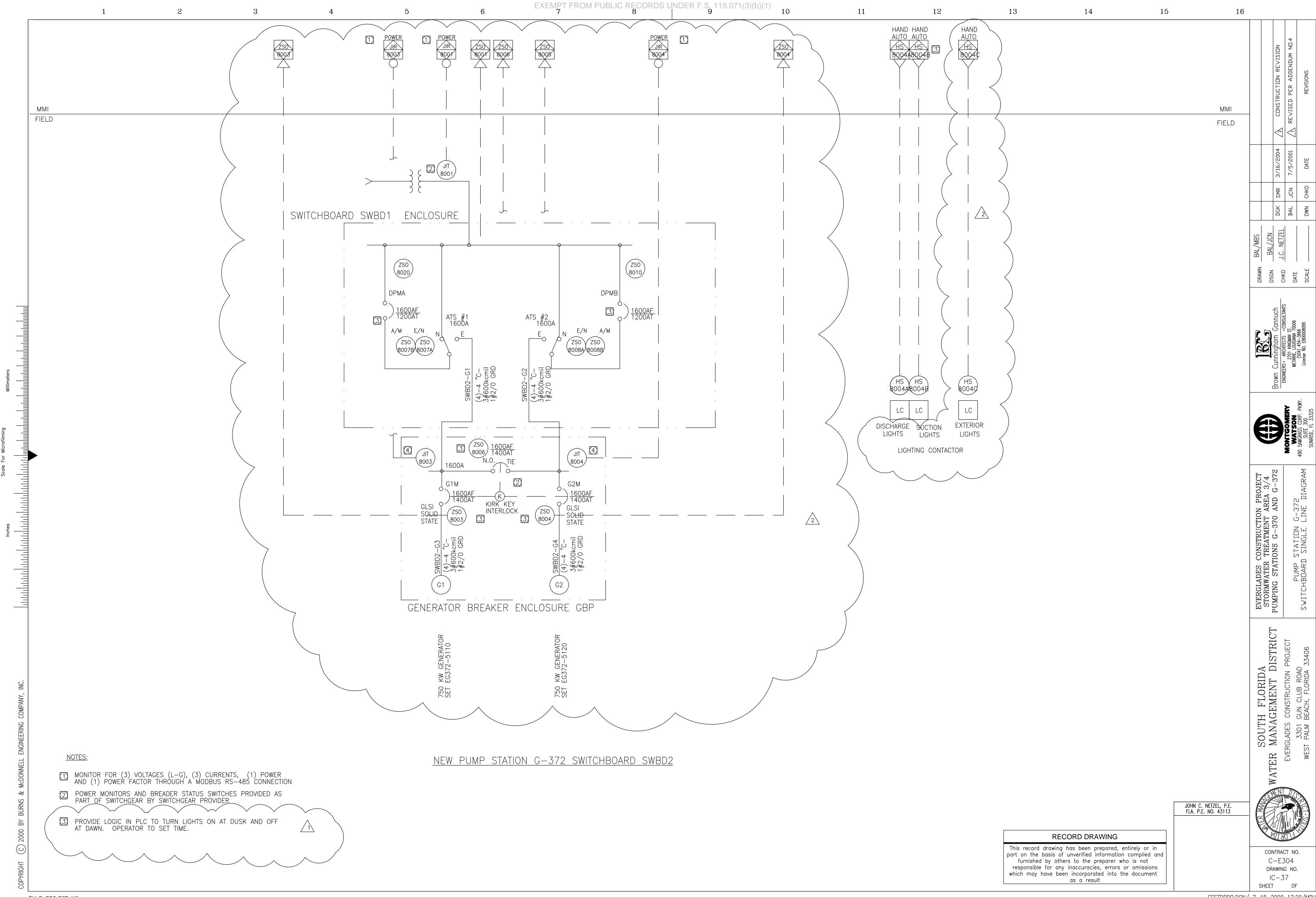
RECORD DRAWING

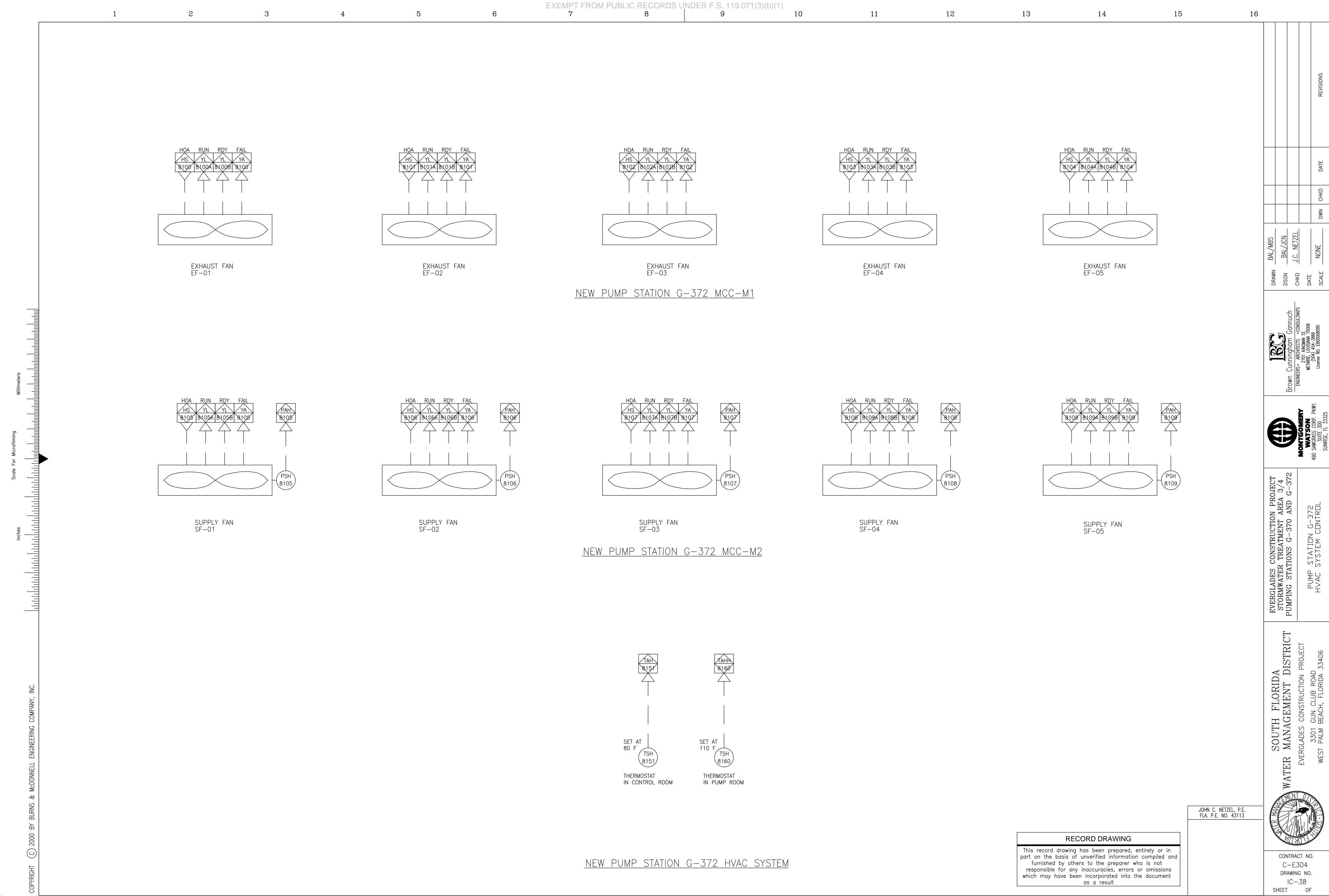
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CONTRACT NO. C-E304 DRAWING NO. EC-36 SHEET OF

SOUTH FLORIDA
FER MANAGEMENT DISTRICT
EVERGLADES CONSTRUCTION PROJECT
3301 GUN CLUB ROAD
WEST PALM BEACH, FLORIDA 33406

STATION G-372 L SCHEDULE - 2





				_		
	I/O POINTS TRANSFERRED AC	ROSS DATA HIG	HWAY		I/O POINTS TRANSFERED ACR	ROSS DATA H
LOOP NO	DESCRIPTION	I/O TYPE	COMMENTS	LOOP NO.	DESCRIPTION	I/O TYPE
YA-1300A	LOCK OUT	DISCRETE POINT		YL-1300A	READY TO AUTO START	DISCRETE POIN
YA-1300E	B ENGINE OVER-CRANK	DISCRETE POINT		YL-1300B	START SEQUENCE INITIATED,	
YA-13000	ENGINE OVER-SPEED	DISCRETE POINT			PRE-LUBE PUMP RUNNING	DISCRETE POIN
YA-1300E	ENGINE UNDER-SPEED	DISCRETE POINT		YL-1300C	ENGINE RUNNING AT IDLE SPEED	DISCRETE POIN
YA-1300E	ENGINE LUBE OIL PRESSURE LOW	DISCRETE POINT		YL-1300D	ENGINE RUNNING AT RATED SPEED	DISCRETE POIN
YA-1300F	ENGINE LUBE OIL LEVEL LOW	DISCRETE POINT		YL-1300E	NORMAL SHUTDOWN INITIATED, ENGINE COOLING DOWN	DISCRETE POIN
YA-13000	ENGINE LUBE OIL TEMPERATURE HIGH	DISCRETE POINT		YL-1300F	GEAR PRE-LUBE RUNNING	DISCRETE POIN
YA-1300H	H ENGINE LUBE OIL TEMPERATURE LOW	DISCRETE POINT		YL-1300G	SERVICE WATER PUMPS RUNNING	DISCRETE POIN
YA-1300	ENGINE LUBE OIL FILTER DIRTY	DISCRETE POINT		YL-1300H	INFLOW PUMP SHAFT BEARING	
YA-1300	INTERCOOLER COOLING WATER FLOW LOW	DISCRETE POINT			LUBRICATING WATER FLOW	DISCRETE POIN
YA-1300k	(IENGINE FUEL DAY TANK LEVEL LOW	DISCRETE POINT		YL-1300I	SERVICE WATER PUMP RUNNING	DISCRETE POIN
YA-1300L	ENGINE FUEL DAY TANK LEVEL HIGH	DISCRETE POINT		YL-1300J	VACCUUM ASSIST	DISCRETE POIN
YA-1300N	M ENGINE FUEL PRESSURE LOW	DISCRETE POINT		YL-1300K	CONTROL START	DISCRETE POIN
YA-1300N	N ENGINE JACKET WATER TEMPERATURE LOW	DISCRETE POINT		YL-1300L	CONTROL STOP	DISCRETE POIN
YA-13000	ENGINE JACKET WATER TEMPERATURE HIGH	DISCRETE POINT				
YA-1300F	P ENGINE JACKET WATER TEMPERATURE HIGH—HIGH	DISCRETE POINT				
YA-13000	ENGINE JACKET WATER PRESSURE LOW	DISCRETE POINT				
YA-1300F	R STARTING AIR PRESSURE LOW	DISCRETE POINT				
YA-13009	ENGINE CRANKCASE PRESSURE HIGH	DISCRETE POINT				
YA-13001	ENGINE EXHAUST TEMPERATURE HIGH	DISCRETE POINT				
YA-1300L	J ENGINE CYLINDER TEMPERATURE HIGH	DISCRETE POINT				
YA-1300\	/ ENGINE TEMPERATURE HIGH—HIGH	DISCRETE POINT				
YA-1300V	V ENGINE VIBRATION HIGH—HIGH	DISCRETE POINT				
YA=130Q)	(ENGINE VIBRATION HIGH	DISCRETE POINT				
	2					
YA-13002	GEAR VIBRATION HIGH	DISCRETE POINT				
YA-1300A	A GEAR LUBE OIL PRESSURE LOW	DISCRETE POINT				
YA-1300B	B GEAR LUBE OIL LEVEL LOW	DISCRETE POINT				
YA-1300C	C GEAR LUBE OIL FILTER DIRTY	DISCRETE POINT				
YA-1300D	D INFLOW PUMP BEARING 1 LUBRICATING FLOW LOW	DISCRETE POINT				
YA-1300E	E INFLOW PUMP BEARING 2 LUBRICATING FLOW LOW	DISCRETE POINT				
YA-1300F	F HIGH ENGINE CYLINDER TEMPERATURE DIFFERENTIAL					
	ALARM	DISCRETE POINT				
YA-1300G		DISCRETE POINT				
YA-1300H	H VACUUM SYSTEM TROUBLE	DISCRETE POINT				
				1 1		

	I/O POINTS TRANSFERED ACR	OSS DATA HIGH	WAY		I/O POINTS TRANSFERED ACI	ROSS DATA HIGH	HWAY
LOOP NO.	DESCRIPTION	I/O TYPE	COMMENTS	LOOP NO.	DESCRIPTION	I/O TYPE	COMMENTS
YL-1300A	READY TO AUTO START	DISCRETE POINT		SI-1300	ENGINE SPEED, RPM	ANALOG VALUE	
YL-1300B	START SEQUENCE INITIATED,			KI-1300	ELAPSED RUNNING TIME, HRS	ANALOG VALUE	
	PRE-LUBE PUMP RUNNING	DISCRETE POINT		PI-1301	INTAKE MANIFOLD PRESSURE, IN HG	ANALOG VALUE	
YL-1300C	ENGINE RUNNING AT IDLE SPEED	DISCRETE POINT		VI-1300	ENGINE VIBRATION, CHANNEL 1	ANALOG VALUE	
YL-1300D	ENGINE RUNNING AT RATED SPEED	DISCRETE POINT		VI-1301	ENGINE VIBRATION, CHANNEL 2	ANALOG VALUE	
YL-1300E	NORMAL SHUTDOWN INITIATED, ENGINE COOLING DOWN	DISCRETE POINT		TI-1300A	CYLINDER 1 TEMPERATURE, F	ANALOG VALUE	
YL-1300F	GEAR PRE-LUBE RUNNING	DISCRETE POINT		TI-1300B	CYLINDER 2 TEMPERATURE, F	ANALOG VALUE	
YL-1300G	SERVICE WATER PUMPS RUNNING	DISCRETE POINT		TI-1300C	CYLINDER 3 TEMPERATURE, F	ANALOG VALUE	
YL-1300H	INFLOW PUMP SHAFT BEARING			TI-1300D	CYLINDER 4 TEMPERATURE, F	ANALOG VALUE	
	LUBRICATING WATER FLOW	DISCRETE POINT		TI-1300E	CYLINDER 5 TEMPERATURE, F	ANALOG VALUE	
YL-1300I	SERVICE WATER PUMP RUNNING	DISCRETE POINT		TI-1300F	CYLINDER 6 TEMPERATURE, F	ANALOG VALUE	
YL-1300J	VACCUUM ASSIST	DISCRETE POINT		TI-1300G	CYLINDER 7 TEMPERATURE, F	ANALOG VALUE	
YL-1300K	CONTROL START	DISCRETE POINT		TI-1300H	CYLINDER 8 TEMPERATURE, F	ANALOG VALUE	
YL-1300L	CONTROL STOP	DISCRETE POINT		TI-1301	ENGINE COMMON EXHAUST TEMPERATURE, F	ANALOG VALUE	
					2		
				TI-1303	ENGINE JACKET WATER INLET TEMPERATURE, F	ANALOG VALUE	
				TI-1304	ENGINE JACKET WATER OUTLET TEMPERATURE, F	ANALOG VALUE	
				TI-1305	ENGINE AUXILIARY CIRCUIT PUMP		
					OUTLET TEMPERATURE, F	ANALOG VALUE	
				PI-1302	ENGINE JACKET WATER PRESSURE	ANALOG VALUE	
				TI-1306	ENGINE LUBE OIL TEMPERATURE, F	ANALOG VALUE	
				PI-1303	ENGINE LUBE OIL PRESSURE	ANALOG VALUE	
				TI-1307	GEARLUBE OIL TEMPERATURE, F	ANALOG VALUE	
				11-1308	DAY TANK RETURN FUEL TEMPERATURE, F	ANALOG VALUE	
				FI-1300	FUEL FLOW RATE	ANALOG VALUE	
					\searrow		
					/ 2\		

NEW PUMP STATION G-372

DIESEL ENGINE PUMP P-1 SIGNALS TO MAIN CONTROL PANEL

JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

RECORD DRAWING

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CONTRACT NO. C-E304 DRAWING NO. 1C - 39SHEET OF

SOUTH FLORIDA
R MANAGEMENT DISTRICT
VERGLADES CONSTRUCTION PROJECT
3301 GUN CLUB ROAD
VEST PALM BEACH, FLORIDA 33406

I/O POINTS TRANSFERED ACROSS DATA HIGHWAY I/O POINTS TRANSFERRED ACROSS DATA HIGHWAY I/O POINTS TRANSFERED ACROSS DATA HIGHWAY LOOP NO. DESCRIPTION I/O TYPE COMMENTS DESCRIPTION I/O TYPE COMMENTS LOOP NO. DESCRIPTION I/O TYPE COMMENTS YA-1400A LOCK OUT DISCRETE POINT YL-1400A READY TO AUTO START DISCRETE POINT SI-1400 ENGINE SPEED, RPM ANALOG VALUE ELAPSED RUNNING TIME, HRS START SEQUENCE INITIATED, YA-1400B ENGINE OVER-CRANK DISCRETE POINT YL-1400B KI-1400 ANALOG VALUE DISCRETE POINT DISCRETE POINT PI-1401 INTAKE MANIFOLD PRESSURE, IN HG ANALOG VALUE YA-1400C ENGINE OVER-SPEED PRE-LUBE PUMP RUNNING DISCRETE POINT VI-1400 ENGINE VIBRATION, CHANNEL 1 ANALOG VALUE YA-1400D ENGINE UNDER-SPEED YL-1400C ENGINE RUNNING AT IDLE SPEED DISCRETE POINT YA-1400E ENGINE LUBE OIL PRESSURE LOW DISCRETE POINT YL-1400D ENGINE RUNNING AT RATED SPEED DISCRETE POINT VI-1401 ENGINE VIBRATION, CHANNEL 2 ANALOG VALUE CYLINDER 1 TEMPERATURE, F ENGINE LUBE OIL LEVEL LOW DISCRETE POINT YL-1400E NORMAL SHUTDOWN INITIATED, ENGINE COOLING DOWN DISCRETE POINT TI-1400A ANALOG VALUE YA-1400F ENGINE LUBE OIL TEMPERATURE HIGH YA-1400G DISCRETE POINT YL-1400F GEAR PRE-LUBE RUNNING DISCRETE POINT TI-1400B CYLINDER 2 TEMPERATURE, F ANALOG VALUE CYLINDER 3 TEMPERATURE, F ENGINE LUBE OIL TEMPERATURE LOW DISCRETE POINT YL-1400G SERVICE WATER PUMPS RUNNING DISCRETE POINT TI-1400C ANALOG VALUE YA-1400H INFLOW PUMP SHAFT BEARING CYLINDER 4 TEMPERATURE, F YA-1400I ENGINE LUBE OIL FILTER DIRTY DISCRETE POINT YL-1400H TI-1400D ANALOG VALUE LUBRICATING WATER FLOW CYLINDER 5 TEMPERATURE, F YA-1400J INTERCOOLER COOLING WATER FLOW LOW DISCRETE POINT DISCRETE POINT TI-1400E ANALOG VALUE CYLINDER 6 TEMPERATURE, F IENGINE FUEL DAY TANK LEVEL LOW DISCRETE POINT YL-1400I SERVICE WATER PUMP RUNNING DISCRETE POINT TI-1400F ANALOG VALUE YA-1400K ENGINE FUEL DAY TANK LEVEL HIGH CYLINDER 7 TEMPERATURE, F YA-1400L DISCRETE POINT YL-1400J VACCUUM ASSIST DISCRETE POINT TI-1400G ANALOG VALUE CYLINDER 8 TEMPERATURE, F YA-1400M ENGINE FUEL PRESSURE LOW DISCRETE POINT YL-1400K CONTROL START DISCRETE POINT TI-1400H ANALOG VALUE ENGINE COMMON EXHAUST TEMPERATURE, ENGINE JACKET WATER TEMPERATURE LOW DISCRETE POINT CONTROL STOP YA-1400N YL-1400L DISCRETE POINT ANALOG VALUE ENGINE JACKET WATER TEMPERATURE HIGH DISCRETE POINT YA-14000 ANALOG VALUE ENGINE JACKET WATER INLET TEMPERATURE, F YA-1400P ENGINE JACKET WATER TEMPERATURE HIGH-HIGH DISCRETE POINT ENGINE JACKET WATER OUTLET TEMPERATURE, F YA-1400Q ENGINE JACKET WATER PRESSURE LOW DISCRETE POINT TI-1404 ANALOG VALUE DISCRETE POINT TI-1405 ENGINE AUXILIARY CIRCUIT PUMP YA-1400R STARTING AIR PRESSURE LOW YA-1400S ENGINE CRANKCASE PRESSURE HIGH DISCRETE POINT OUTLET TEMPERATURE, F ANALOG VALUE DISCRETE POINT ENGINE EXHAUST TEMPERATURE HIGH PI-1402 ENGINE JACKET WATER PRESSURE ANALOG VALUE YA-1400T ENGINE LUBE OIL TEMPERATURE, F ENGINE CYLINDER TEMPERATURE HIGH DISCRETE POINT TI-1406 ANALOG VALUE YA-1400U YA-1400V ENGINE TEMPERATURE HIGH-HIGH DISCRETE POINT PI-1403 ENGINE LUBE OIL PRESSURE ANALOG VALUE GEARLUBE OIL TEMPERATURE, F DISCRETE POINT ANALOG VALUE YA-1400W ENGINE VIBRATION HIGH-HIGH XA-1400X ENGINE VIBRATION HIGH DISCRETE POINT DAY TANK RETURN FUEL TEMPÉRATURE, F GEAR VIBRATION HIGH DISCRETE POINT YA-1400AA GEAR LUBE OIL PRESSURE LOW DISCRETE POINT YA-1400BB GEAR LUBE OIL LEVEL LOW DISCRETE POINT DISCRETE POINT YA-1400CC GEAR LUBE OIL FILTER DIRTY YA-1400DD INFLOW PUMP BEARING 1 LUBRICATING FLOW LOW DISCRETE POINT YA-1400EE INFLOW PUMP BEARING 2 LUBRICATING FLOW LOW DISCRETE POINT HIGH ENGINE CYLINDER TEMPERATURE DIFFERENTIAL YA-1400FF DISCRETE POINT ALARM PUMPING SYSTEM CONTROLS NOT IN AUTO DISCRETE POINT DISCRETE POINT YA-1400HH VACUUM SYSTEM TROUBLE

EXEMPT FROM PUBLIC RECORDS UNDER F.S. 119.071(3)(b)(1)

NEW PUMP STATION G-372 DIESEL ENGINE PUMP P-2 SIGNALS TO MAIN CONTROL PANEL

RECORD DRAWING

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JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

CONTRACT NO. C-E304 DRAWING NO. 1C - 40SHEET

UMP STATION ENGINE PUMP MAIN CONTROL

SOUTH FLORIDA MANAGEMENT DISTRICT

NEW PUMP STATION G-372 DIESEL ENGINE PUMP P-3 SIGNALS TO MAIN CONTROL PANEL

RECORD DRAWING

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JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

CONTRACT NO. C-E304

SOUTH FLORIDA MANAGEMENT DISTRICT

ALARM

YA-1500GG

YA-1500HH

PUMPING SYSTEM CONTROLS NOT IN AUTO

VACUUM SYSTEM TROUBLE

DISCRETE POINT

DISCRETE POINT

DISCRETE POINT

SHEET

DRAWING NO.

IC-41

NEW PUMP STATION G-372

DIESEL ENGINE PUMP P-4 SIGNALS TO MAIN CONTROL PANEL

RECORD DRAWING

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JOHN C. NETZEL, P.E. FLA. P.E. NO. 43113

CONTRACT NO.
C-E304

SOUTH FLORIDA MANAGEMENT DISTRICT

CONSTRUCTION PROJECT R TREATMENT AREA 3/4 TIONS G-370 AND G-372

DRAWING NO.

IC-42

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