

INDEX OF SHEETS/DRAWINGS

03-09-12 LETTING ITEM 093

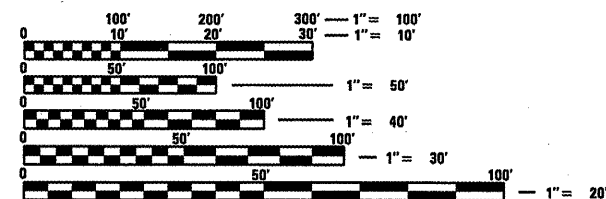
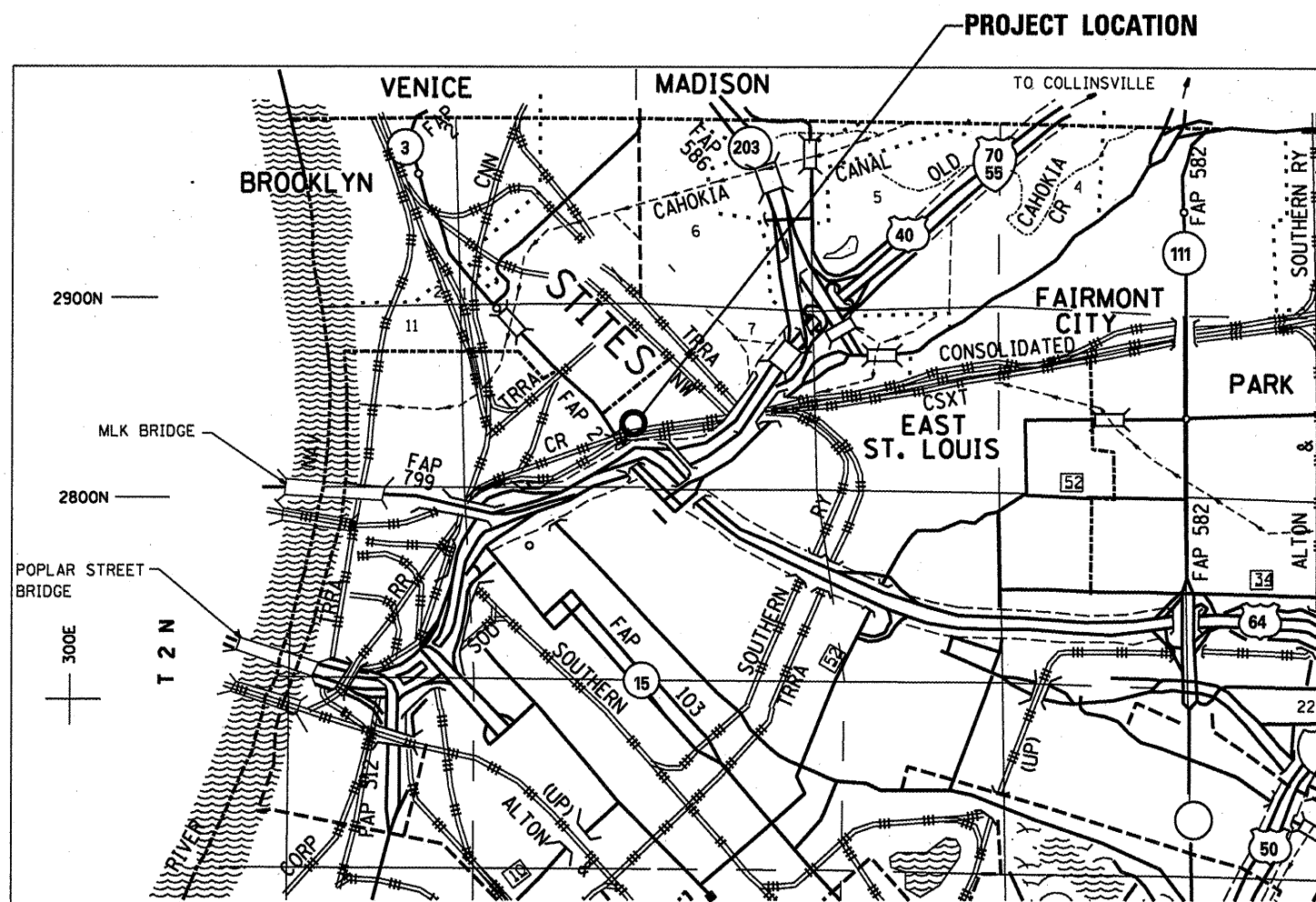
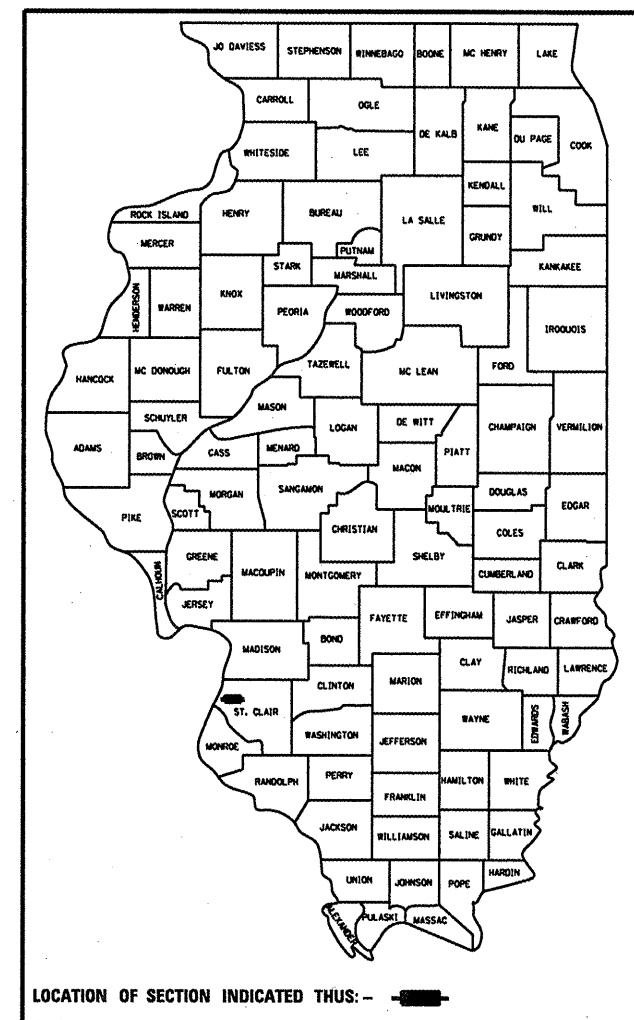
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

FAI ROUTE 55/70 (I-55/70)  
SECTION 82-(1,2)T-19  
BOWMAN AVENUE  
PUMP STATION REHABILITATION  
ST CLAIR COUNTY  
C-98-035-12

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(1,2)T-19	ST CLAIR	12	1
ILLINOIS CONTRACT NO. 76F42				

D-98-031-12



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: PATTI LEBEAU (618)346-3179  
PROJECT MANAGER: BILLIE OWEN (618)346-3186

CONTRACT NO. 76F42

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED December 21 20 11

*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

Feb 3 20 12  
*John D. Baranzelli, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 3 20 12  
*William B. Frey, Jr.*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

GENERAL NOTES:

1. CONTRACTOR WILL FIELD VERIFY ALL LINE LENGTHS BEFORE ORDERING MATERIALS
2. CONTRACTOR WILL FOLLOW ALL NEC AND LOCAL ELECTRICAL CODES FOR ALL CONDUIT AND ELECTRICAL LINES.
3. CONTRACTOR WANTING TO FIELD VIEW THE PUMP STATION PRIOR TO BIDDING SHALL CONTACT DAVID D. WALKER, ELECTRICAL SUPERVISOR (618) 346-3274 FOR AN APPOINTMENT.

FILE NAME =	USER NAME = elfordb	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\pwork\pwidot\elfordb\d0286990\d07642-sh1-plan.dgn		DRAWN -	REVISED -			70	82-(1,2)T-19	ST CLAIR	12	2	
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -			CONTRACT NO. 76F42					
	PLOT DATE = 12/30/2011	DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

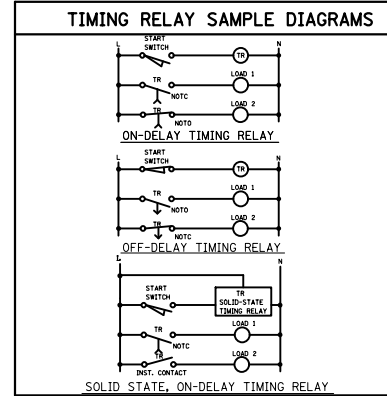


BUILDING PLANS	
SYMBOL	DESCRIPTION
	FLUORESCENT FIXTURE (F1 INDICATES FIXTURE TYPE - REFER TO FIXTURE SCHEDULE - 2g INDICATES CIRCUIT No.2 ON SWITCH QJKTYP.)
	FLUORESCENT FIXTURE, WALL MOUNTED
	INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE
	WALL MOUNTED INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE
	FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	INCANDESCENT, COMPACT FLUORESCENT OR HID FIXTURE ON EMERGENCY CIRCUIT
	EXIT SIGN SINGLE SIDED (ABOVE DOOR)
	DIRECTIONAL EXIT SIGN - DOUBLE SIDED (DIRECTION AS INDICATED - TYP.)
	DIRECTIONAL EXIT SIGN - SINGLE SIDED
	BATTERY UNIT FOR EMERGENCY LIGHT
	BATTERY OPERATED EMERGENCY LIGHT
	EMERGENCY LIGHT, REMOTE HEAD
	ELECTRIC PULLBOX
	ELECTRIC JUNCTION BOX
	BARE GROUND CABLE
	EXPOSED CONDUIT
	CONCEALED CONDUIT IN FLOOR OR UNDERGROUND
	CONCEALED CONDUIT IN CEILING OR WALLS
	CONDUIT HOME-RUN TO PANEL AS INDICATED (LP-1-6 DENOTES PANEL DESIGNATION, SLASH LINES INDICATE QUANTITY OF WIRE, GROUND WIRE INDICATED AS LONG LINE WITH DOT, NEUTRAL WIRE INDICATED AS LONG LINE, PHASE WIRE AND SWITCH LEGS INDICATED AS SHORT LINES.)
	CABLE TRAY
	CONDUIT TURNED UP OR DOWN
	CONDUIT TERMINATED OR CAPPED
	SINGLE POLE TOGGLE SWITCH
	DOUBLE POLE TOGGLE SWITCH
	THREE-WAY TOGGLE SWITCH
	FOUR-WAY TOGGLE SWITCH
	KEY OPERATED SWITCH
	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION
	TOGGLE SWITCH WITH PILOT LIGHT
	DIMMER SWITCH
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	DUPLEX RECEPTACLE WITH ISOLATED GROUND

BUILDING PLANS	
SYMBOL	DESCRIPTION
	SPECIAL PURPOSE RECEPTACLE
	TELEPHONE OUTLET
	DATA OUTLET
	FLUSH MOUNTED PANELBOARD (PANEL TYPE (LIGHTING PANEL) LP-1- UNIT NUMBER)
	SURFACE MOUNTED PANELBOARD
	MANUAL DISCONNECT SWITCH NONFUSED (RATING AS INDICATED)
	MANUAL DISCONNECT SWITCH FUSED (RATING AS INDICATED)
	MAGNETIC MOTOR STARTER (RATING AS INDICATED)
	COMBINATION MAGNETIC MOTOR & FUSED DISCONNECT SWITCH (RATING AS INDICATED)
	PUSHBUTTON STATION (1, 2 & 3 BUTTONS SHOWN)
	50HP SINGLE SPEED ELECTRIC MOTOR (KW OR HP RATING AS INDICATED)
	20HP 50HP DOUBLE SPEED ELECTRIC MOTOR (KW OR HP RATING AS INDICATED)
	250 KW ELECTRIC GENERATOR SET (KW RATING AS INDICATED)
	LIMIT SWITCH
	FS FLOAT SWITCH
	P PRESSURE SWITCH
	FW FLOW SWITCH
	EP ELECTRIC - PNEUMATIC SWITCH
	PE PNEUMATIC - ELECTRIC SWITCH
	TQ TORQUE SWITCH
	T TRANSFORMER
	F FIRE ALARM PULL STATION
	AV AUDIO VISUAL ALARM
	F FIREALARM STROBE
	S SMOKE DETECTOR
	H HEAT DETECTOR
	G COMBUSTIBLE GAS DETECTOR
	T THERMOSTAT
	UH UNIT HEATER - HORIZONTAL TYPE
	UH UNIT HEATER - DOWNBLAST TYPE OR CENTRIFUGAL FAN TYPE
	CUH CABINET UNIT HEATER
	AH ALARM HORN

SCHEMATIC SYMBOLS	
SYMBOL	DESCRIPTION
	CONDUCTOR CONNECTION
	NO CONNECTION
	TERMINAL ON A DEVICE
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	SINGLE POLE, SINGLE THROW SWITCH
	SINGLE POLE, DOUBLE THROW SWITCH
	DOUBLE POLE, SINGLE THROW SWITCH
	DOUBLE POLE, DOUBLE THROW SWITCH
	THREE WAY ROTARY SWITCH
	NORMALLY CLOSED MOMENTARY PUSH BUTTON SWITCH
	NORMALLY OPEN MOMENTARY PUSH BUTTON SWITCH
	2 POSITION PUSH BUTTON (EXTRA CONTACT BLOCK)
	NORMALLY OPEN DOUBLE BREAK SINGLE THROW CONTACT BLOCK
	NORMALLY CLOSE DOUBLE BREAK SINGLE THROW CONTACT BLOCK
	DOUBLE BREAK DOUBLE THROW CONTACT BLOCK
	MUSHROOM HEAD PUSH BUTTON
	MAINTAINED CONTACT PUSHBUTTON
	2 OR 3 POSITIONS SELECTOR SWITCH (CLOSED CONTACTS INDICATED BY "X")
	MULTI-POSITION, MULTI-CONTACT SELECTOR SWITCH (CLOSED CONTACTS INDICATED BY "X")
	TEMPERATURE SWITCH - CLOSING ON RISING TEMPERATURE
	TEMPERATURE SWITCH - OPENING ON RISING TEMPERATURE
	PRESSURE SWITCH - CLOSING ON RISING PRESSURE
	PRESSURE SWITCH - OPENING ON RISING PRESSURE
	DIFFERENTIAL PRESSURE SWITCH - CLOSING WHEN THE DIFFERENTIAL IN PRESSURE BETWEEN TWO DIAPHRAGMS EXCEEDS A SET POINT
	DIFFERENTIAL PRESSURE SWITCH - OPENING WHEN THE DIFFERENTIAL IN PRESSURE BETWEEN TWO DIAPHRAGMS EXCEEDS A SET POINT
	TIME DELAY RELAY SWITCH - CLOSING ON TIME DELAY AFTER ENERGIZATION OF RELAY COIL
	TIME DELAY RELAY SWITCH - CLOSING ON TIME DELAY AFTER DE-ENERGIZATION OF RELAY COIL
	TIME DELAY RELAY SWITCH - OPENING ON TIME DELAY AFTER DE-ENERGIZATION OF RELAY COIL
	LIMIT SWITCH - NORMALLY OPEN
	LIMIT SWITCH - NORMALLY CLOSED
	LIMIT SWITCH - NORMALLY OPEN HELD CLOSED

SCHEMATIC SYMBOLS	
SYMBOL	DESCRIPTION
	LIMIT SWITCH - NORMALLY CLOSED HELD OPEN
	LEVEL SWITCH - CLOSING ON RISING LEVEL
	LEVEL SWITCH - OPENING ON RISING LEVEL
	FLOW SWITCH - CLOSING ON FLOW
	FLOW SWITCH - OPENING ON FLOW
	TRANSFORMER - (TYPE AND RATING AS INDICATED)
	CONNECTION TO GROUND
	LIGHTNING OR SURGE ARRESTER
	THERMAL OVERLOAD ELEMENT
	FUSE
	CIRCUIT BREAKER
	HEATING ELEMENT
	SOLENOID VALVE
	COIL C - CLOSE CR - CONTROL RELAY F - FAST OR FORWARD M - MOTOR STARTER MX - MOTOR STARTER AUXILIARY RELAY N - NORMAL O - OPEN OL - OVERLOAD RELAY R - REVERSE S - SLOW TD - TIME DELAY RELAY TDAE - TIME DELAY AFTER ENERGIZATION TDAD - TIME DELAY AFTER DE-ENERGIZATION
	INDICATOR LIGHT (SEE SCHEMATIC DIAGRAM DEVICE TABLE FOR COLOR SYMBOLS)
	DEVICE ENCLOSURE
	ANN ANNUNCIATOR
	COUNT COUNTER
	ETM ELAPSED TIME METER
	TMR ELECTRONIC TIMER
	TOT TOTALIZER



INFORMATION ONLY

ONE-LINE DIAGRAMS	
SYMBOL	DESCRIPTION
	POWER CIRCUIT
	EQUIPMENT ENCLOSURE
	CONTROL OR INTERLOCK CIRCUIT
	BUS (RATING AS INDICATED)
	CONDUCTOR CONNECTION
	DRAWOUT DEVICE
	DRAWOUT MOLDED CASE CIRCUIT BREAKER (600V, THERMAL-MAGNETIC TYPE, UNLESS NOTED OTHERWISE) (TRIP SETTING (TYP.) FRAME SIZE (TYP.))
	MOLDED CASE CIRCUIT BREAKER (600V, THERMAL-MAGNETIC TYPE, UNLESS NOTED OTHERWISE)
	AIR CIRCUIT BREAKER
	INSULATED CASE CIRCUIT BREAKER
	FUSE (RATING AS INDICATED)
	DRAWOUT FUSE (RATING AS INDICATED)
	FUSE - SWITCH (RATING AS INDICATED)
	NON-FUSIBLE DISCONNECT SWITCH
	THERMAL OVERLOAD ELEMENT
	INSTANTANEOUS CONTACT
	CONNECTION TO GROUND
	LIGHTNING OR SURGE ARRESTER
	CURRENT TRANSFORMER-DOUGHNUT TYPE (QUANTITY, RATIO AND RATING AS INDICATED)
	CURRENT TRANSFORMER-WINDOW TYPE (RATIO AND RATING AS INDICATED)
	POTENTIAL TRANSFORMER (QUANTITY, RATIO AND RATING AS INDICATED)
	CAPACITOR
	BATTERY
	AS AMMETER SWITCH
	VS VOLTMETER SWITCH
	SS SELECTOR SWITCH
	A AMMETER (RANGE AS INDICATED)
	V VOLTMETER (RANGE AS INDICATED)
	KWH KILOWATT-HOUR METER
	K-K KIRK-KEY INTERLOCK
	GFR GROUND FAULT RELAY

ONE-LINE DIAGRAMS	
SYMBOL	DESCRIPTION
	50HP SINGLE SPEED ELECTRIC MOTOR (KW OR HP RATING AS INDICATED)
	20HP 50HP DOUBLE SPEED ELECTRIC MOTOR (KW OR HP RATING AS INDICATED)
	250 KW ELECTRIC GENERATOR SET (TYPE & KW RATING AS INDICATED)
	G TRANSFER SWITCH (TYPE AND RATING AS INDICATED)
	SINGLE SPEED NON-REVERSING MANUAL STARTER (NEMA OR IEC DESIGNATION AS SPECIFIED OR SHOWN)
	SINGLE SPEED NON-REVERSING MAGNETIC STARTER (NEMA OR IEC DESIGNATION AS SPECIFIED OR SHOWN)
	COMBINATION CIRCUIT BREAKER & SINGLE SPEED NON-REVERSING MAGNETIC STARTER (NEMA OR IEC DESIGNATION AS SPECIFIED OR SHOWN)
	COMBINATION CIRCUIT BREAKER & SINGLE SPEED REVERSING MAGNETIC STARTER (NEMA OR IEC DESIGNATION AS SPECIFIED OR SHOWN)
	COMBINATION CIRCUIT BREAKER & TWO SPEED NON-REVERSING MAGNETIC STARTER (NEMA OR IEC DESIGNATION AS SPECIFIED OR SHOWN)
	REDUCED VOLTAGE STARTER, AUTO TRANSFORMER TYPE (NEMA OR IEC DESIGNATIONS AS SPECIFIED OR SHOWN)
	REDUCED VOLTAGE STARTER, WYE-DELTA TYPE (NEMA OR IEC DESIGNATIONS AS SPECIFIED OR SHOWN)
	REDUCED VOLTAGE STARTER, PRIMARY-RESISTOR TYPE (NEMA OR IEC DESIGNATIONS AS SPECIFIED OR SHOWN)
	SS SOLID STATE REDUCED VOLTAGE STARTER

SCHEMATIC DIAGRAM DEVICE DESIGNATIONS	
SYMBOL	DESCRIPTION
	AUTOMATIC
	ACK ACKNOWLEDGE
	CL CLOSE
	F FAST
	FWD FORWARD
	HI HIGH
	H HAND
	INST INSTANTANEOUS
	L LOW
	LOS LOCKOUT-STOP
	HR HAND RESET
	HS HIGH SPEED
	LSP LOW SPEED
	N NORMAL
	NC NORMALLY CLOSED
	NCTC NORMALLY CLOSED TIMED CLOSED
	NCTO NORMALLY CLOSED TIMED OPEN
	NO NORMALLY OPEN
	NOTC NORMALLY OPEN TIMED CLOSED
	NOTO NORMALLY OPEN TIMED OPEN
	O OFF
	OP OPEN
	REM REMOTE
	REV REVERSE
	S SLOW
	A AMBER
	BL BLUE
	C CLEAR
	G GREEN
	R RED
	W WHITE
	Y YELLOW

ABBREVIATIONS	
SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
ACK	ACKNOWLEDGE
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
ANN	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
EF	EXHAUST FAN
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FT	FEET OR FOOT
FND CON	FOUNDATION CONCRETE
FU	FUSE
FNVR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATTS
LP	LIGHTING PANEL
M	METER
MCC	MOTOR CONTROL CENTER
MM	MILLIMETER
MTG HT	MOUNTING HEIGHT
MTS	MANUAL TRANSFER SWITCH
NL	NIGHT LIGHT
NO, #	NUMBER
PB	PUSH BUTTON
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PT	POTENTIAL TRANSFORMER
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
RVS	REDUCED VOLTAGE STARTER
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SEL SW	SELECTOR SWITCH
SF	SUPPLY FAN
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
SWGR	SWITCHGEAR
TMP	TEMPORARY
TEMP	TEMPERATURE
T' STAT	THERMOSTAT
TEFC	FULLY ENCLOSED FAN COOLED
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER
XP	EXPLOSION-PROOF (CLASS 1, DIV 1, GROUP C & D UNLESS NOTED OTHERWISE)

SCADA PANEL DIGITAL INPUTS			
TERMINAL BLOCK TB01			
TERM #	WIRE #	ORIGINATIION	DESCRIPTION OF INPUTS
S0	S0	CP-DO-398	ALARM ACKNOWLEDGE
S0C	S0C	CP-DO-398A	ALARM ACKNOWLEDGE
S1	S1	M1-0	MAIN PUMP 1 BREAKER OPEN
S1C	S1C	M1-0A	MAIN PUMP 1 BREAKER OPEN
S2	S2	M1-10	MAIN PUMP 1 RUNNING
S2C	S2C	M1-1E	MAIN PUMP 1 RUNNING
S3	S3	M1-15A	MAIN PUMP 1 HOA IN AUTO
S3C	S3C	M1-15	MAIN PUMP 1 HOA IN AUTO
S4	S4	M1-16	MAIN PUMP 1 HOA IN OFF
S4C	S4C	M1-15	MAIN PUMP 1 HOA IN OFF
S5	S5	M1-22A	MAIN PUMP 1 FAIL
S5C	S5C	M1-22B	MAIN PUMP 1 FAIL
S6	S6	M1-57	MAIN PUMP 1 MOTOR WDG HI-TEMP
S6C	S6C	M1-57A	MAIN PUMP 1 MOTOR WDG HI-TEMP
S7	S7	M1-58	MAIN PUMP 1 MOTOR HI-MOISTURE
S7C	S7C	M1-58A	MAIN PUMP 1 MOTOR HI-MOISTURE
S8	S8	M1-59	MAIN PUMP 1 BEARING HI-TEMP
S8C	S8C	M1-59A	MAIN PUMP 1 BEARING HI-TEMP
S9	S9	M1-60	MAIN PUMP 1 SEAL LEAK
S9C	S9C	M1-60A	MAIN PUMP 1 SEAL LEAK
S10	S10	M2-0	MAIN PUMP 2 BREAKER OPEN
S10C	S10C	M2-0A	MAIN PUMP 2 BREAKER OPEN
S11	S11	M2-1D	MAIN PUMP 2 RUNNING
S11C	S11C	M2-1E	MAIN PUMP 2 RUNNING
S12	S12	M2-15A	MAIN PUMP 2 HOA IN AUTO
S12C	S12C	M2-15	MAIN PUMP 2 HOA IN AUTO
S13	S13	M2-16	MAIN PUMP 2 HOA IN OFF
S13C	S13C	M2-15	MAIN PUMP 2 HOA IN OFF
S14	S14	M2-22A	MAIN PUMP 2 FAIL
S14C	S14C	M2-22B	MAIN PUMP 2 FAIL
S15	S15	M2-57	MAIN PUMP 2 MOTOR WDG HI-TEMP
S15C	S15C	M2-57A	MAIN PUMP 2 MOTOR WDG HI-TEMP
S16	S16	M2-58	MAIN PUMP 2 MOTOR HI-MOISTURE
S16C	S16C	M2-58A	MAIN PUMP 2 MOTOR HI-MOISTURE
S17	S17	M2-59	MAIN PUMP 2 BEARING HI-TEMP
S17C	S17C	M2-59A	MAIN PUMP 2 BEARING HI-TEMP
S18	S18	M2-60	MAIN PUMP 2 SEAL LEAK
S18C	S18C	M2-60A	MAIN PUMP 2 SEAL LEAK
S19	S19	M3-0	MAIN PUMP 3 BREAKER OPEN
S19C	S19C	M3-0A	MAIN PUMP 3 BREAKER OPEN
S20	S20	M3-1D	MAIN PUMP 3 RUNNING
S20C	S20C	M3-1E	MAIN PUMP 3 RUNNING
S21	S21	M3-15A	MAIN PUMP 3 HOA IN AUTO
S21C	S21C	M3-15	MAIN PUMP 3 HOA IN AUTO
S22	S22	M3-16	MAIN PUMP 3 HOA IN OFF
S22C	S22C	M3-15	MAIN PUMP 3 HOA IN OFF
S23	S23	M3-22A	MAIN PUMP 3 FAIL
S23C	S23C	M3-22B	MAIN PUMP 3 FAIL
S24	S24	M3-57	MAIN PUMP 3 MOTOR WDG HI-TEMP
S24C	S24C	M3-57A	MAIN PUMP 3 MOTOR WDG HI-TEMP
S25	S25	M3-58	MAIN PUMP 3 MOTOR HI-MOISTURE
S25C	S25C	M3-58A	MAIN PUMP 3 MOTOR HI-MOISTURE
S26	S26	M3-59	MAIN PUMP 3 BEARING HI-TEMP
S26C	S26C	M3-59A	MAIN PUMP 3 BEARING HI-TEMP
S27	S27	M3-60	MAIN PUMP 3 SEAL LEAK
S27C	S27C	M3-60A	MAIN PUMP 3 SEAL LEAK
S28	S28	M4-0	MAIN PUMP 4 BREAKER OPEN
S28C	S28C	M4-0A	MAIN PUMP 4 BREAKER OPEN
S29	S29	M4-1D	MAIN PUMP 4 RUNNING
S29C	S29C	M4-1E	MAIN PUMP 4 RUNNING
S30	S30	M4-35A	MAIN PUMP 4 HOA IN AUTO
S30C	S30C	M4-35	MAIN PUMP 4 HOA IN AUTO
S31	S31	M4-36A	MAIN PUMP 4 HOA IN OFF
S31C	S31C	M4-35	MAIN PUMP 4 HOA IN OFF
S32	S32	M4-22A	MAIN PUMP 4 FAIL
S32C	S32C	M4-22B	MAIN PUMP 4 FAIL
S33	S33	M4-57	MAIN PUMP 4 MOTOR WDG HI-TEMP
S33C	S33C	M4-57A	MAIN PUMP 4 MOTOR WDG HI-TEMP
S34	S34	M4-58	MAIN PUMP 4 MOTOR HI-MOISTURE
S34C	S34C	M4-58A	MAIN PUMP 4 MOTOR HI-MOISTURE
S35	S35	M4-59	MAIN PUMP 4 BEARING HI-TEMP
S35C	S35C	M4-59A	MAIN PUMP 4 BEARING HI-TEMP
S36	S36	M4-60	MAIN PUMP 4 SEAL LEAK
S36C	S36C	M4-60A	MAIN PUMP 4 SEAL LEAK
S37	S37	M5-0	MAIN PUMP 5 BREAKER OPEN
S37C	S37C	M5-0A	MAIN PUMP 5 BREAKER OPEN
S38	S38	M5-1E	MAIN PUMP 5 RUNNING
S38C	S38C	M5-1D	MAIN PUMP 5 RUNNING
S39	S39	M5-15A	MAIN PUMP 5 HOA IN AUTO
S39C	S39C	M5-15	MAIN PUMP 5 HOA IN AUTO
S40	S40	M5-16	MAIN PUMP 5 HOA IN OFF
S40C	S40C	M5-15	MAIN PUMP 5 HOA IN OFF
S41	S41	M5-22A	MAIN PUMP 5 FAIL
S41C	S41C	M5-22B	MAIN PUMP 5 FAIL
S42	S42	M5-57	MAIN PUMP 5 MOTOR WDG HI-TEMP
S42C	S42C	M5-57A	MAIN PUMP 5 MOTOR WDG HI-TEMP
S43	S43	M5-58	MAIN PUMP 5 MOTOR HI-MOISTURE
S43C	S43C	M5-58A	MAIN PUMP 5 MOTOR HI-MOISTURE
S44	S44	M5-59	MAIN PUMP 5 BEARING HI-TEMP
S44C	S44C	M5-59A	MAIN PUMP 5 BEARING HI-TEMP
S45	S45	M5-60	MAIN PUMP 5 SEAL LEAK
S45C	S45C	M5-60A	MAIN PUMP 5 SEAL LEAK
S46	S46	M6-0	MAIN PUMP 6 BREAKER OPEN
S46C	S46C	M6-0A	MAIN PUMP 6 BREAKER OPEN
S47	S47	M6-1D	MAIN PUMP 6 RUNNING
S47C	S47C	M6-1E	MAIN PUMP 6 RUNNING

SCADA PANEL DIGITAL INPUTS			
TERMINAL BLOCK TB01			
TERM #	WIRE #	ORIGINATIION	DESCRIPTION OF INPUTS
S48	S48	M6-15A	MAIN PUMP 6 HOA IN AUTO
S48C	S48C	M6-15	MAIN PUMP 6 HOA IN AUTO
S49	S49	M6-16	MAIN PUMP 6 HOA IN OFF
S49C	S49C	M6-15	MAIN PUMP 6 HOA IN OFF
S50	S50	M6-22A	MAIN PUMP 6 FAIL
S50C	S50C	M6-22B	MAIN PUMP 6 FAIL
S51	S51	M6-57	MAIN PUMP 6 MOTOR WDG HI-TEMP
S51C	S51C	M6-57A	MAIN PUMP 6 MOTOR WDG HI-TEMP
S52	S52	M6-58	MAIN PUMP 6 MOTOR HI-MOISTURE
S52C	S52C	M6-58A	MAIN PUMP 6 MOTOR HI-MOISTURE
S53	S53	M6-59	MAIN PUMP 6 BEARING HI-TEMP
S53C	S53C	M6-59A	MAIN PUMP 6 BEARING HI-TEMP
S54	S54	M6-60	MAIN PUMP 6 SEAL LEAK
S54C	S54C	M6-60A	MAIN PUMP 6 SEAL LEAK
S55	S55	M7-0	SUMP PUMP 1 BREAKER OPEN
S55C	S55C	M7-0A	SUMP PUMP 1 BREAKER OPEN
S56	S56	M7-1D	SUMP PUMP 1 RUNNING
S56C	S56C	M7-1E	SUMP PUMP 1 RUNNING
S57	S57	M7-15A	SUMP PUMP 1 HOA IN AUTO
S57C	S57C	M7-15	SUMP PUMP 1 HOA IN AUTO
S58	S58	M7-16	SUMP PUMP 1 HOA IN OFF
S58C	S58C	M7-15	SUMP PUMP 1 HOA IN OFF
S59	S59	M7-22A	SUMP PUMP 1 FAIL
S59C	S59C	M7-22B	SUMP PUMP 1 FAIL
S60	S60	M7-50	SUMP PUMP 1 MOTOR WDG HI-TEMP
S60C	S60C	M7-50A	SUMP PUMP 1 MOTOR WDG HI-TEMP
S61	S61	M7-51	SUMP PUMP 1 MOTOR HI-MOISTURE
S61C	S61C	M7-51A	SUMP PUMP 1 MOTOR HI-MOISTURE
S62	S62	M7-52	SUMP PUMP 1 BEARING HI-TEMP
S62C	S62C	M7-52A	SUMP PUMP 1 BEARING HI-TEMP
S63	S63	M8-0	SUMP PUMP 1 BREAKER OPEN
S63C	S63C	M8-0A	SUMP PUMP 1 BREAKER OPEN
S64	S64	M8-1D	SUMP PUMP 1 RUNNING
S64C	S64C	M8-1E	SUMP PUMP 1 RUNNING
S65	S65	M8-15A	SUMP PUMP 1 HOA IN AUTO
S65C	S65C	M8-15	SUMP PUMP 1 HOA IN AUTO
S66	S66	M8-16	SUMP PUMP 1 HOA IN OFF
S66C	S66C	M8-15	SUMP PUMP 1 HOA IN OFF
S67	S67	M8-22A	SUMP PUMP 2 FAIL
S67C	S67C	M8-22B	SUMP PUMP 2 FAIL
S68	S68	M8-50	SUMP PUMP 2 MOTOR WDG HI-TEMP
S68C	S68C	M8-50A	SUMP PUMP 2 MOTOR WDG HI-TEMP
S69	S69	M8-51	SUMP PUMP 2 MOTOR HI-MOISTURE
S69C	S69C	M8-51A	SUMP PUMP 2 MOTOR HI-MOISTURE
S70	S70	M8-52	SUMP PUMP 2 BEARING HI-TEMP
S70C	S70C	M8-52A	SUMP PUMP 2 BEARING HI-TEMP
S71	S71	M9-0	MIXER 1 BREAKER OPEN
S71C	S71C	M9-0A	MIXER 1 BREAKER OPEN
S72	S72	M9-4A	MIXER 1 RUNNING
S72C	S72C	M9-4B	MIXER 1 RUNNING
S73	S73	M9-11A	MIXER 1 HOA IN AUTO
S73C	S73C	M9-11	MIXER 1 HOA IN AUTO
S74	S74	M9-12	MIXER 1 HOA IN OFF
S74C	S74C	M9-11	MIXER 1 HOA IN OFF
S75	S75	M9-0B	MIXER 1 UNDERLOAD
S75C	S75C	M9-0C	MIXER 1 UNDERLOAD
S76	S76	M9-26A	MIXER 1 HI TEMP/MOIST.
S76C	S76C	M9-26B	MIXER 2 HI TEMP/MOIST.
S77	S77	M10-0	MIXER 2 BREAKER OPEN
S77C	S77C	M10-0A	MIXER 2 BREAKER OPEN
S78	S78	M10-4A	MIXER 2 RUNNING
S78C	S78C	M10-4B	MIXER 2 RUNNING
S79	S79	M10-11A	MIXER 2 HOA IN AUTO
S79C	S79C	M10-11	MIXER 2 HOA IN AUTO
S80	S80	M10-12	MIXER 2 HOA IN OFF
S80C	S80C	M10-11	MIXER 2 HOA IN OFF
S81	S81	M10-0B	MIXER 2 UNDERLOAD
S81C	S81C	M10-0C	MIXER 2 UNDERLOAD
S82	S82	M10-26A	MIXER 2 HI TEMP/MOIST.
S82C	S82C	M10-26B	MIXER 2 HI TEMP/MOIST.
S83	S83	M11-0	MIXER 3 BREAKER OPEN
S83C	S83C	M11-0A	MIXER 3 BREAKER OPEN
S84	S84	M11-4A	MIXER 3 RUNNING
S84C	S84C	M11-4B	MIXER 3 RUNNING
S85	S85	M11-11A	MIXER 3 HOA IN AUTO
S85C	S85C	M11-11	MIXER 3 HOA IN AUTO
S86	S86	M11-12	MIXER 3 HOA IN OFF
S86C	S86C	M11-11	MIXER 3 HOA IN OFF
S87	S87	M11-0B	MIXER 3 UNDERLOAD
S87C	S87C	M11-0C	MIXER 3 UNDERLOAD
S88	S88	M11-26A	MIXER 3 HI TEMP/MOIST.
S88C	S88C	M11-26B	MIXER 3 HI TEMP/MOIST.
S89	S89	M12-0	MIXER 4 BREAKER OPEN
S89C	S89C	M12-0A	MIXER 4 BREAKER OPEN
S90	S90	M12-4A	MIXER 4 RUNNING
S90C	S90C	M12-4B	MIXER 4 RUNNING
S91	S91	M12-11A	MIXER 4 HOA IN AUTO
S91C	S91C	M12-11	MIXER 4 HOA IN AUTO
S92	S92	M12-12	MIXER 4 HOA IN OFF
S92C	S92C	M12-11	MIXER 4 HOA IN OFF
S93	S93	M12-0B	MIXER 4 UNDERLOAD
S93C	S93C	M12-0C	MIXER 4 UNDERLOAD
S94	S94	M12-26A	MIXER 4 HI TEMP/MOIST.
S94C	S94C	M12-26B	MIXER 4 HI TEMP/MOIST.
S95	S95	M13-2D	DRAIN PUMP 1 RUNNING
S95C	S95C	M13-2E	DRAIN PUMP 1 RUNNING
S96	S96	M13-5A	DRAIN PUMP 1 HI TEMP/MOIST.
S96C	S96C	M13-5B	DRAIN PUMP 1 HI TEMP/MOIST.

SCADA PANEL DIGITAL INPUTS			
TERMINAL BLOCK TB01			
TERM #	WIRE #	ORIGINATIION	DESCRIPTION OF INPUTS
S97	S97	M14-2D	DRAIN PUMP 2 RUNNING
S97C	S97C	M14-2E	DRAIN PUMP 2 RUNNING
S98	S98	M14-5A	DRAIN PUMP 2 HI TEMP/MOIST.
S98C	S98C	M14-5B	DRAIN PUMP 2 HI TEMP/MOIST.
S99	S99	M14-2D	FLASHING WATER PUMP RUNNING
S99C	S99C	M14-2E	FLASHING WATER PUMP RUNNING
S100	S100	CP-201	CPDO-201 WETWELL LVL BELOW FLOAT EL. 380.5'
S100C	S100C	CPDO-201A	CPDO-201A WETWELL LVL BELOW FLOAT EL. 380.5'
S101	S101	CP-202	CPDO-202 WETWELL LVL BELOW FLOAT EL. 379.5'
S101C	S101C	CPDO-202A	CPDO-202A WETWELL LVL BELOW FLOAT EL. 379.5'
S102	S102	CP-203	CPDO-203 WETWELL LVL BELOW FLOAT EL. 378.5'
S102C	S102C	CPDO-203A	CPDO-203A WETWELL LVL BELOW FLOAT EL. 378.5'
S103	S103	CP-204	CPDO-204 WETWELL LVL BELOW FLOAT EL. 377.5'
S103C	S103C	CPDO-204A	CPDO-204A WETWELL LVL BELOW FLOAT EL. 377.5'
S104	S104	CP-205	CPDO-205 WETWELL LVL BELOW FLOAT EL. 377.0'
S104C	S104C	CPDO-205A	CPDO-205A WETWELL LVL BELOW FLOAT EL. 377.0'
S105	S105	CP-206	CPDO-206 WETWELL LVL BELOW FLOAT EL. 376.5'
S105C	S105C	CPDO-206A	CPDO-206A WETWELL LVL BELOW FLOAT EL. 376.5'
S106	S106	CP-207	CPDO-207 WETWELL LVL BELOW FLOAT EL. 376.0'
S106C	S106C	CPDO-207A	CPDO-207A WETWELL LVL BELOW FLOAT EL. 376.0'
S107	S107	CP-208	CPDO-208 WETWELL LVL BELOW FLOAT EL. 375.5'
S107C	S107C	CPDO-208A	CPDO-208A WETWELL LVL BELOW FLOAT EL. 375.5'
S108	S108	CP-209	CPDO-209 WETWELL LVL BELOW FLOAT EL. 375.0'
S108C	S108C	CPDO-209A	CPDO-209A WETWELL LVL BELOW FLOAT EL. 375.0'
S109	S109	CP-210	CPDO-210 WETWELL LVL BELOW FLOAT EL. 374.5'
S109C	S109C	CPDO-210A	CPDO-210A WETWELL LVL BELOW FLOAT EL. 374.5'
S110	S110	CP-211	CPDO-211 WETWELL LVL BELOW FLOAT EL. 374.0'
S110C	S110C	CPDO-211A	CPDO-211A WETWELL LVL BELOW FLOAT EL. 374.0'
S111	S111	CP-212	CPDO-212 WETWELL LVL BELOW FLOAT EL. 373.5'
S111C	S111C	CPDO-212A	CPDO-212A WETWELL LVL BELOW FLOAT EL. 373.5'
S112	S112	CP-213	CPDO-213 WETWELL LVL BELOW FLOAT EL. 373.0'
S112C	S112C	CPDO-213A	CPDO-213A WETWELL LVL BELOW FLOAT EL. 373.0'
S113	S113	CP-214	CPDO-214 WETWELL LVL BELOW FLOAT EL. 372.0'
S113C	S113C	CPDO-214A	CPDO-214A WETWELL LVL BELOW FLOAT EL. 372.0'
S114	S114	CP-215	CPDO-215 WETWELL LVL BELOW FLOAT EL. 371.5'
S114C	S114C	CPDO-215A	CPDO-215A WETWELL LVL BELOW FLOAT EL. 371.5'
S115	S115	CP-216	CPDO-216 WETWELL LVL BELOW FLOAT EL. 371.0'
S115C	S115C	CPDO-216A	CPDO-216A WETWELL LVL BELOW FLOAT EL. 371.0'
S116	S116	CP-217	CPDO-217 WETWELL LVL BELOW FLOAT EL. 370.5'
S116C	S116C	CPDO-217A	CPDO-217A WETWELL LVL BELOW FLOAT EL. 370.5'
S117	S117	CP-218	CPDO-218 WETWELL LVL BELOW FLOAT EL. 369.5'
S117C	S117C	CPDO-218A	CPDO-218A WETWELL LVL BELOW FLOAT EL. 369.5'
S118	S118	CP-219	CPDO-219 WETWELL LVL BELOW FLOAT EL. 368.5'
S118C	S118C	CPDO-219A	CPDO-219A WETWELL LVL BELOW FLOAT EL. 368.5'
S119	S119	CPDO-2	PUMP CONTROL CKT POWER FAIL
S119C	S119C	CPDO-2A	PUMP CONTROL CKT POWER FAIL
S120	S120	CPDO-145	MAIN PUMP FAIL TO STOP
S120C	S120C	CPDO-145A	MAIN PUMP FAIL TO STOP
S121	S121	CPDO-391	ALARM ACKNOWLEDGED
S121C	S121C	CPDO-391A	ALARM ACKNOWLEDGED
S122	S122	CPDO-481	COMBUSTIBLE GAS WARNING
S122C	S122C	CPDO-481A	COMBUSTIBLE GAS WARNING
S123	S123	CPDO-482	COMBUSTIBLE GAS ALARM
S123C	S123C	CPDO-482A	COMBUSTIBLE GAS ALARM
S124	S124	CPDO-483	COMBUSTIBLE GAS DETECTOR FAIL
S124C	S124C	CPDO-483A	COMBUSTIBLE GAS DETECTOR FAIL
S125	S125	SWGR-1	UTILITY LINE 1 POWER FAIL
S125C	S125C	SWGR-1C	UTILITY LINE 1 POWER FAIL
S126	S126	SWGR-2	UTILITY LINE 1 TVSS ALARM
S126C	S126C	SWGR-2C	UTILITY LINE 1 TVSS ALARM
S127	S127	SWGR-3	UTILITY LINE 1 BREAKER CLOSED
S127C	S127C	SWGR-3C	UTILITY LINE 1 BREAKER CLOSED
S128	S128	SWGR-4	UTILITY LINE 2 POWER FAIL
S128C	S128C	SWGR-4C	UTILITY LINE 2 POWER FAIL
S129	S129	SWGR-5	UTILITY LINE 2 TVSS ALARM
S129C	S129C	SWGR-5C	UTILITY LINE 2 TVSS ALARM
S130	S130	SWGR-6	UTILITY LINE 2 BREAKER CLOSED
S130C	S130C	SWGR-6C	UTILITY LINE 2 BREAKER CLOSED
S131	S131	SWGR-7	BUS TIE 1 BREAKER CLOSED
S131C	S131C	SWGR-7C	BUS TIE 1 BREAKER CLOSED

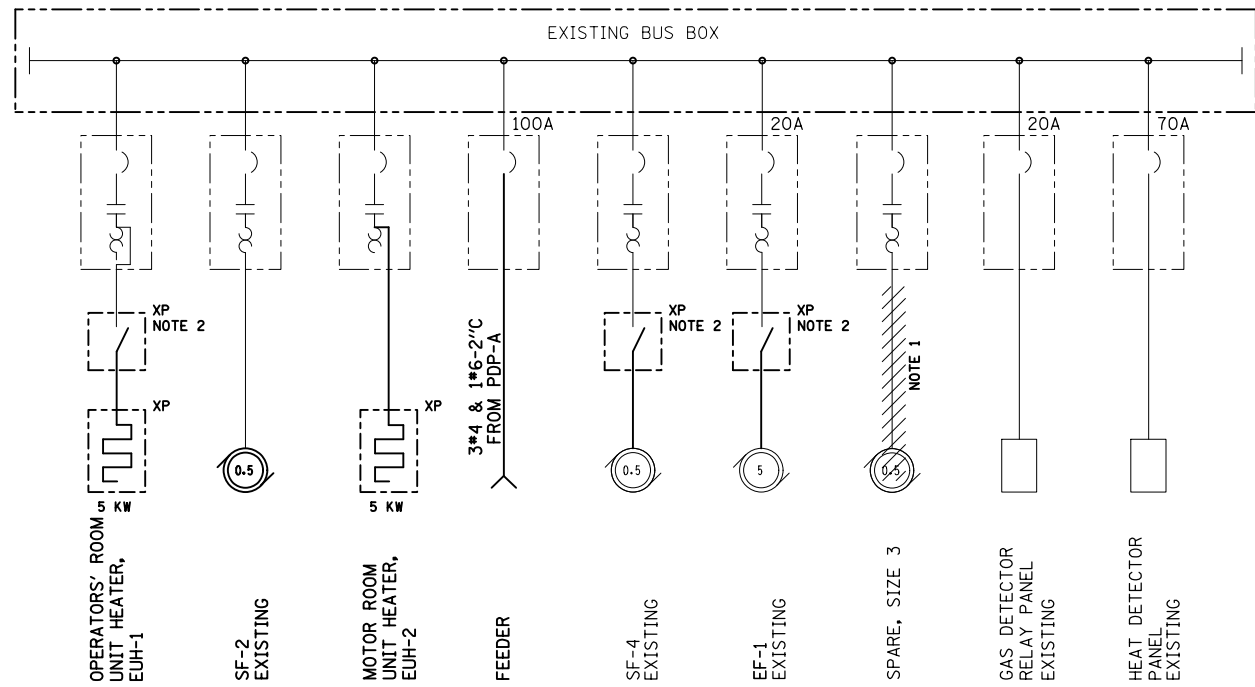
CONTROL PANEL DIGITAL INPUTS(TBDI)			
TERM #	WIRE #	ORIGINATION	DESCRIPTION OF INPUTS
32	CP-32	FLOAT 1	HIGH WATER ALARM
32A	CP-32A	FLOAT 1	HIGH WATER ALARM
37	CP-37	FLOAT 2	START LAG 5 MAIN PUMP
37A	CP-37A	FLOAT 2	START LAG 5 MAIN PUMP
42	CP-42	FLOAT 3	START LAG 4 MAIN PUMP
42A	CP-42A	FLOAT 3	START LAG 4 MAIN PUMP
47	CP-47	FLOAT 4	START LAG 3 MAIN PUMP
47A	CP-47A	FLOAT 4	START LAG 3 MAIN PUMP
52	CP-52	FLOAT 5	STOP LAG 5 MAIN PUMP
52A	CP-92A	FLOAT 5	STOP LAG 5 MAIN PUMP
57	CP-57	FLOAT 6	START LAG 2 MAIN PUMP
57A	CP-57A	FLOAT 6	START LAG 2 MAIN PUMP
62	CP-62	FLOAT 7	STOP LAG 4 MAIN PUMP
62A	CP-62A	FLOAT 7	STOP LAG 4 MAIN PUMP
67	CP-67	FLOAT 8	START LAG 1 MAIN PUMP
67A	CP-67A	FLOAT 8	START LAG 1 MAIN PUMP
72	CP-72	FLOAT 9	STOP LAG 3 MAIN PUMP
72A	CP-72A	FLOAT 9	STOP LAG 3 MAIN PUMP
77	CP-77	FLOAT 10	START LEAD MAIN PUMP, STOP MIXERS
77A	CP-77A	FLOAT 10	START LEAD MAIN PUMP, STOP MIXERS
82	CP-82	FLOAT 11	STOP LAG 2 PUMP
82A	CP-82A	FLOAT 11	STOP LAG 2 PUMP
87	CP-87	FLOAT 12	START LAG SUMP PUMP
87A	CP-87A	FLOAT 12	START LAG SUMP PUMP
92	CP-92	FLOAT 13	STOP LAG 1 MAIN PUMP
92A	CP-92A	FLOAT 13	STOP LAG 1 MAIN PUMP
97	CP-97	FLOAT 14	START MIXERS
97A	CP-97A	FLOAT 14	START MIXERS
102	CP-102	FLOAT 15	START LEAD SUMP PUMP
102A	CP-102A	FLOAT 15	START LEAD SUMP PUMP
107	CP-107	FLOAT 16	MAIN PUMPS FAIL TO STOP
107A	CP-107A	FLOAT 16	MAIN PUMPS FAIL TO STOP
112	CP-112	FLOAT 17	STOP LAG SUMP PUMP
112A	CP-112A	FLOAT 17	STOP LAG SUMP PUMP
117	CP-117	FLOAT 18	STOP LEAD SUMP PUMP
117A	CP-117A	FLOAT 18	STOP LEAD SUMP PUMP
122	CP-122	FLOAT 19	LOW WATER ALARM
122A	CP-122A	FLOAT 19	LOW WATER ALARM
5	CP-5	SP-DO-P26	ENABLE RTU-1 OUTPUT
11	CP-166	SP-DO-P26X	ENABLE RTU-1 OUTPUT
1	CP-1	SP-DO-P15	SCADA LEAD CALL
166	CP-11	SP-DO-P15X	SCADA LEAD CALL
1	CP-1	SP-DO-P16	SCADA LAG 1 CALL
167	CP-167	SP-DO-P16X	SCADA LAG 1 CALL
1	CP-1	SP-DO-P17	SCADA LAG 2 CALL
168	CP-168	SP-DO-P17X	SCADA LAG 2 CALL
1	CP-1	SP-DO-P18	SCADA LAG 3 CALL
169	CP-169	SP-DO-P18X	SCADA LAG 3 CALL
1	CP-1	SP-DO-P19	SCADA LAG 4 CALL
168	CP-168	SP-DO-P19X	SCADA LAG 4 CALL
1	CP-1	SP-DO-P20	SCADA LAG 5 CALL
169	CP-169	SP-DO-P20X	SCADA LAG 5 CALL
1	CP-1	SP-DO-P21	SCADA LEAD SUMP PUMP CALL
170	CP-170	SP-DO-P21X	SCADA LEAD SUMP PUMP CALL
1	CP-1	SP-DO-P22	SCADA LAG SUMP PUMP CALL
171	CP-171	SP-DO-P22X	SCADA LAG SUMP PUMP CALL
1	CP-1	SP-DO-P23	SCADA MIXER CALL
189	CP-189	SP-DO-P23X	SCADA MIXER CALL
244	CP-244	M1-22A	MAIN PUMP 1 FAIL
246	CP-246	M1-22B	MAIN PUMP 1 FAIL
247	CP-247	M2-22A	MAIN PUMP 2 FAIL
249	CP-249	M2-22B	MAIN PUMP 2 FAIL
250	CP-250	M3-22A	MAIN PUMP 3 FAIL
252	CP-252	M3-22B	MAIN PUMP 3 FAIL
253	CP-253	M4-22A	MAIN PUMP 4 FAIL
255	CP-255	M4-22B	MAIN PUMP 4 FAIL
256	CP-256	M5-22A	MAIN PUMP 5 FAIL
258	CP-258	M5-22B	MAIN PUMP 5 FAIL
259	CP-259	M6-22A	MAIN PUMP 6 FAIL
261	CP-261	M6-22B	MAIN PUMP 6 FAIL
262	CP-262	M1-57	MAIN PUMP 1 OVER TEMP/MOIST
264	CP-264	M1-57A	MAIN PUMP 1 OVER TEMP/MOIST
265	CP-265	M2-57	MAIN PUMP 2 OVER TEMP/MOIST
267	CP-267	M2-57A	MAIN PUMP 2 OVER TEMP/MOIST
268	CP-268	M3-57	MAIN PUMP 3 OVER TEMP/MOIST
270	CP-270	M3-57A	MAIN PUMP 3 OVER TEMP/MOIST
271	CP-271	M4-57	MAIN PUMP 4 OVER TEMP/MOIST
273	CP-273	M4-57A	MAIN PUMP 4 OVER TEMP/MOIST
274	CP-274	M5-57	MAIN PUMP 5 OVER TEMP/MOIST
276	CP-276	M5-57A	MAIN PUMP 5 OVER TEMP/MOIST
277	CP-277	M6-30A	MAIN PUMP 6 OVER TEMP/MOIST
279	CP-279	M6-30B	MAIN PUMP 6 OVER TEMP/MOIST
280	CP-280	M7-22A	SUMP PUMP 1 FAIL
282	CP-282	M7-22B	SUMP PUMP 1 FAIL
283	CP-283	M8-22A	SUMP PUMP 2 FAIL
285	CP-285	M8-22B	SUMP PUMP 2 FAIL
286	CP-286	M9-23D	SUBMERSIBLE MIXER 1 FAIL
288	CP-288	M9-23E	SUBMERSIBLE MIXER 1 FAIL
289	CP-289	M9-23D	SUBMERSIBLE MIXER 2 FAIL
291	CP-291	M9-23E	SUBMERSIBLE MIXER 2 FAIL
292	CP-292	M9-23D	SUBMERSIBLE MIXER 3 FAIL
294	CP-294	M9-23E	SUBMERSIBLE MIXER 3 FAIL
295	CP-295	M9-23D	SUBMERSIBLE MIXER 4 FAIL
297	CP-297	M9-23E	SUBMERSIBLE MIXER 4 FAIL

CONTROL PANEL DIGITAL INPUTS(TBDI)			
TERM #	WIRE #	ORIGINATION	DESCRIPTION OF INPUTS
298	CP-292	M7-57	SUMP PUMP 1 OVER TEMP/MOIST
300	CP-293	M7-57A	SUMP PUMP 1 OVER TEMP/MOIST
301	CP-341	M8-57	SUMP PUMP 2 OVER TEMP/MOIST
302	CP-342	M8-57A	SUMP PUMP 2 OVER TEMP/MOIST
304	CP-343	M9-23D	MIXER 1 OVER TEMP/MOIST
306	CP-344	M9-23E	MIXER 1 OVER TEMP/MOIST
307	CP-346	M10-23D	MIXER 2 OVER TEMP/MOIST
309	CP-347	M10-23E	MIXER 2 OVER TEMP/MOIST
310	CP-343	M11-23D	MIXER 3 OVER TEMP/MOIST
312	CP-344	M11-23E	MIXER 3 OVER TEMP/MOIST
313	CP-346	M12-23D	MIXER 4 OVER TEMP/MOIST
315	CP-347	M12-23E	MIXER 4 OVER TEMP/MOIST
334	CP-349	SWGR-19	INC. LINE 1 NORM SOURCE POWER FAIL
336	CP-350	SWGR-20	INC. LINE 1 NORM SOURCE POWER FAIL
337	CP-292	SWGR-21	INC. LINE 2 EMER SOURCE POWER FAIL
339	CP-293	SWGR-22	INC. LINE 2 EMER SOURCE POWER FAIL
340	CP-292	GEN-7	GENERATOR ALARM
342	CP-293	GEN-8	GENERATOR ALARM
343	CP-341	SP-DO-P28	SCADA PANEL AC POWER FAILURE
345	CP-342	SP-DO-P28X	SCADA PANEL AC POWER FAILURE
343	CP-343	SP-DO-P27	SCADA PANEL ALARM
344	CP-344	SP-DO-P27X	SCADA PANEL ALARM
361	CP-346	FIRE ALARM PANEL	FIRE ALARM
363	CP-347	FIRE ALARM PANEL	FIRE ALARM
367	CP-344	CO-5	CARBONMONOXIDE ALARM
369	CP-346	CO-6	CARBONMONOXIDE ALARM
370	CP-347	CO-7	CO DETECTOR FAIL
372	CP-347	CO-8	CO DETECTOR FAIL
376	CP-343	SP-DO-P24	ALARM ACKNOWLEDGE
376A	CP-344	SP-DO-P24X	ALARM ACKNOWLEDGE
391	CP-346	SPDI-120	ALARM ACKNOWLEDGED
391A	CP-347	SPDI-120C	ALARM ACKNOWLEDGED
420	CP-349	M1-5B	MAIN PUMP 1 FAILURE
420A	CP-350	M1-5C	MAIN PUMP 1 FAILURE
421	CP-349	M2-5B	MAIN PUMP 2 FAILURE
421A	CP-350	M2-5C	MAIN PUMP 2 FAILURE
422	CP-349	M3-5B	MAIN PUMP 3 FAILURE
422A	CP-350	M3-5C	MAIN PUMP 3 FAILURE
423	CP-349	M4-5B	MAIN PUMP 4 FAILURE
423A	CP-350	M4-5C	MAIN PUMP 4 FAILURE
424	CP-349	M5-5B	MAIN PUMP 5 FAILURE
424A	CP-350	M5-5C	MAIN PUMP 5 FAILURE
425	CP-349	M6-5B	MAIN PUMP 6 FAILURE
425A	CP-350	M6-5C	MAIN PUMP 6 FAILURE
426	CP-349	M7-5B	SUMP PUMP 1 FAILURE
426A	CP-350	M7-5C	SUMP PUMP 1 FAILURE
427	CP-349	M8-5B	SUMP PUMP 2 FAILURE
427A	CP-350	M8-5C	SUMP PUMP 2 FAILURE
428	CP-349	M9-6	MIXER 1 FAILURE
428A	CP-350	M9-6A	MIXER 1 FAILURE
428	CP-349	M10-6	MIXER 2 FAILURE
429	CP-350	M10-6A	MIXER 2 FAILURE
428	CP-349	M11-6	MIXER 3 FAILURE
430	CP-350	M11-6A	MIXER 3 FAILURE
428	CP-349	M12-6	MIXER 4 FAILURE
431	CP-350	M12-6A	MIXER 4 FAILURE
463	CP-463	GSD1 +	COMBUSTIBLE GAS SENSOR 1
463A	CP-463	GSD1 -	COMBUSTIBLE GAS SENSOR 1
464	CP-463	GSD1 S	COMBUSTIBLE GAS SENSOR 1
466	CP-463	GSD2 +	COMBUSTIBLE GAS SENSOR 2
466A	CP-463	GSD2 -	COMBUSTIBLE GAS SENSOR 2
467	CP-463	GSD2 S	COMBUSTIBLE GAS SENSOR 2
469	CP-463	GSD3 +	COMBUSTIBLE GAS SENSOR 3
469A	CP-463	GSD3 -	COMBUSTIBLE GAS SENSOR 3
470	CP-463	GSD3 S	COMBUSTIBLE GAS SENSOR 3
472	CP-463	GSD4 +	COMBUSTIBLE GAS SENSOR 4
472A	CP-463	GSD4 -	COMBUSTIBLE GAS SENSOR 4
473	CP-463	GSD4 S	COMBUSTIBLE GAS SENSOR 4
475	CP-463	GSD5 +	COMBUSTIBLE GAS SENSOR 5
475A	CP-463	GSD5 -	COMBUSTIBLE GAS SENSOR 5
476	CP-463	GSD5 S	COMBUSTIBLE GAS SENSOR 5
478	CP-463	GSD6 +	COMBUSTIBLE GAS SENSOR 6
478A	CP-463	GSD6 -	COMBUSTIBLE GAS SENSOR 6
479	CP-463	GSD6 S	COMBUSTIBLE GAS SENSOR 6
484	CP-484	FAP-3	FIRE ALARM
484A	CP-484A	FAP-4	FIRE ALARM

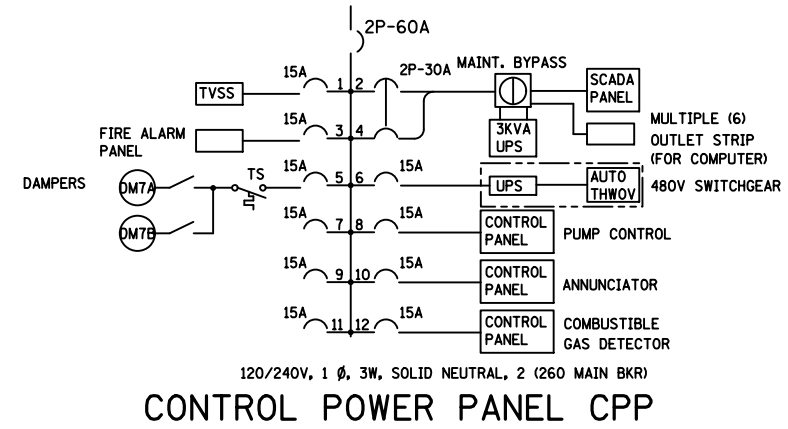
CONTROL PANEL DIGITAL OUTPUTS(TBDO)			
TERM #	WIRE #	DESTINATION	DESCRIPTION OF OUTPUTS
2	SP-119	SPDI-119	PUMP CONTROL CKT POWER FAIL
2A	SP-119C	SPDI-119C	PUMP CONTROL CKT POWER FAIL
9	M7-7	M7-7	START SUMP PUMP 1
9A	M7-14	M7-14	START SUMP PUMP 1
12	M8-7	M8-7	START SUMP PUMP 1
12A	M8-14	M8-14	START SUMP PUMP 1
31	M1-7	M1-7	START MAIN PUMP 1
31A	M1-14	M1-14	START MAIN PUMP 1
36	M2-7	M2-7	START MAIN PUMP 2
36A	M2-14	M2-14	START MAIN PUMP 2
41	M3-7	M3-7	START MAIN PUMP 3
41A	M3-14	M3-14	START MAIN PUMP 3
46	M4-7	M4-7	START MAIN PUMP 4
46A	M4-14	M4-14	START MAIN PUMP 4
51	M5-7	M5-7	START MAIN PUMP 5
51A	M5-14	M5-14	START MAIN PUMP 5
56	M6-7	M6-7	START MAIN PUMP 6
56A	M6-14	M6-14	START MAIN PUMP 6
145	SP-XXX	SPDI-XXX	MAIN PUMP FAIL TO START
145A	SP-XXX	SPDI-XXX	MAIN PUMP FAIL TO START
201	SP-100	SPDI-100	WETWELL LVL BELOW FLOAT EL. 380.5'
201A	SP-100C	SPDI-100C	WETWELL LVL BELOW FLOAT EL. 380.5'
202	SP-101	SPDI-101	WETWELL LVL BELOW FLOAT EL. 379.5'
202A	SP-101C	SPDI-101C	WETWELL LVL BELOW FLOAT EL. 379.5'
203	SP-102	SPDI-102	WETWELL LVL BELOW FLOAT EL. 378.5'
203A	SP-102C	SPDI-102C	WETWELL LVL BELOW FLOAT EL. 378.5'
204	SP-103	SPDI-103	WETWELL LVL BELOW FLOAT EL. 377.5'
204A	SP-103C	SPDI-103C	WETWELL LVL BELOW FLOAT EL. 377.5'
205	SP-104	SPDI-104	WETWELL LVL BELOW FLOAT EL. 377.0'
205A	SP-104C	SPDI-104C	WETWELL LVL BELOW FLOAT EL. 377.0'
206	SP-105	SPDI-105	WETWELL LVL BELOW FLOAT EL. 376.5'
206A	SP-105C	SPDI-105C	WETWELL LVL BELOW FLOAT EL. 376.5'
207	SP-106	SPDI-106	WETWELL LVL BELOW FLOAT EL. 376.0'
207A	SP-106C	SPDI-106C	WETWELL LVL BELOW FLOAT EL. 376.0'
208	SP-107	SPDI-107	WETWELL LVL BELOW FLOAT EL. 375.5'
208A	SP-107C	SPDI-107C	WETWELL LVL BELOW FLOAT EL. 375.5'
209	SP-108	SPDI-108	WETWELL LVL BELOW FLOAT EL. 375.0'
209A	SP-108C	SPDI-108C	WETWELL LVL BELOW FLOAT EL. 375.0'
210	SP-109	SPDI-109	WETWELL LVL BELOW FLOAT EL. 374.5'
210A	SP-109C	SPDI-109C	WETWELL LVL BELOW FLOAT EL. 374.5'
211	SP-110	SPDI-110	WETWELL LVL BELOW FLOAT EL. 374.0'
211A	SP-110C	SPDI-110C	WETWELL LVL BELOW FLOAT EL. 374.0'
212	SP-111	SPDI-111	WETWELL LVL BELOW FLOAT EL. 373.5'
212A	SP-111C	SPDI-111C	WETWELL LVL BELOW FLOAT EL. 373.5'
213	SP-112	SPDI-112	WETWELL LVL BELOW FLOAT EL. 373.0'
213A	SP-112C	SPDI-112C	WETWELL LVL BELOW FLOAT EL. 373.0'
214	SP-113	SPDI-113	WETWELL LVL BELOW FLOAT EL. 372.0'
214A	SP-113C	SPDI-113C	WETWELL LVL BELOW FLOAT EL. 372.0'
215	SP-114	SPDI-114	WETWELL LVL BELOW FLOAT EL. 371.5'
215A	SP-114C	SPDI-114C	WETWELL LVL BELOW FLOAT EL. 371.5'
216	SP-115	SPDI-115	WETWELL LVL BELOW FLOAT EL. 371.0'
216A	SP-115C	SPDI-115C	WETWELL LVL BELOW FLOAT EL. 371.0'
217	SP-116	SPDI-116	WETWELL LVL BELOW FLOAT EL. 370.5'
217A	SP-116C	SPDI-116C	WETWELL LVL BELOW FLOAT EL. 370.5'
218	SP-117	SPDI-117	WETWELL LVL BELOW FLOAT EL. 369.5'
218A	SP-117C	SPDI-117C	WETWELL LVL BELOW FLOAT EL. 369.5'
219	SP-118	SPDI-118	WETWELL LVL BELOW FLOAT EL. 368.5'
219A	SP-118C	SPDI-118C	WETWELL LVL BELOW FLOAT EL. 368.5'
221	M13-3	M13-3	STOP EF1 AT WETWELL EL.375.5'
221A	M13-4	M13-4	STOP EF1 AT WETWELL EL.375.5'
391	SP-120	SPDI-120	ALARM ACKNOWLEDGED
391A	SP-120C	SPDI-120C	ALARM ACKNOWLEDGED
481	SP-121	SPDI-121	COMBUSTIBLE GAS WARNING
481A	SP-121C	SPDI-121C	COMBUSTIBLE GAS WARNING
482	SP-122	SPDI-122	COMBUSTIBLE GAS ALARM
482A	SP-122C	SPDI-122C	COMBUSTIBLE GAS ALARM
483	SP-123	SPDI-123	COMBUSTIBLE GAS DETECTOR FAIL
483A	SP-123C	SPDI-123C	COMBUSTIBLE GAS DETECTOR FAIL
484A	HORN1-1	HORN-1	ALARM HORN, OPERATOR'S ROOM
484B	HORN1-2	HORN-2	ALARM HORN, OPERATOR'S ROOM
484A	HORN2-1	HORN-1	ALARM HORN, PUMP ROOM
484B	HORN2-2	HORN-2	ALARM HORN, PUMP ROOM
484A	HORN3-1	HORN-1	ALARM HORN, INTERMEDIATE LEVEL
484B	HORN3-2	HORN-2	ALARM HORN, INTERMEDIATE LEVEL
484A	HORN4-1	HORN-1	ALARM HORN DIDCHARGE LEVEL
484B	HORN4-2	HORN-2	ALARM HORN DIDCHARGE LEVEL

INFORMATION ONLY

FILE NAME =	USER NAME = lewiska	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>BOWMAN AVENUE PUMP STATION</b> <b>REHABILITATION ELECTRICAL - CONTROL PANEL TERMINAL</b></p>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\lewiska\d0286990\d07642-sh1-plan.dgn		DRAWN -	REVISED -		70	82-(1,2)T-19	ST CLAIR	12	6			
PLOT SCALE = 100.0000' / 1in.		CHECKED -	REVISED -		CONTRACT NO. 76F42							
PLOT DATE = 12/22/2011		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



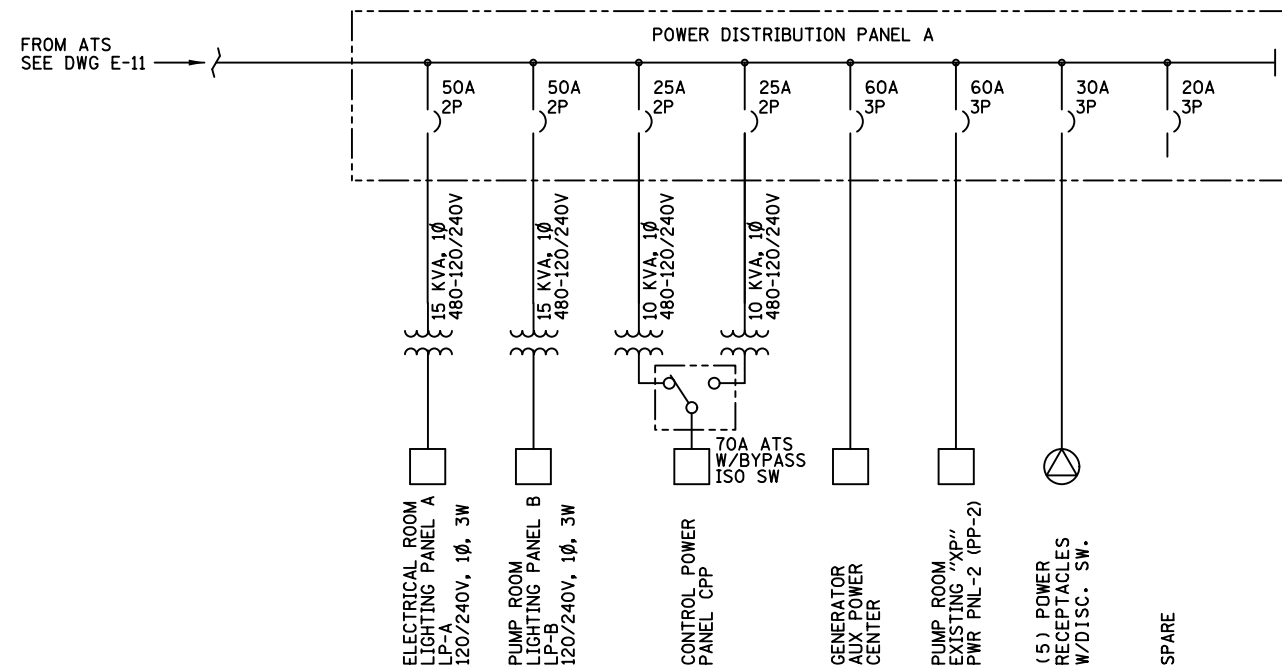
EXISTING  
EXP. PROOF  
CKT. BKR AND  
MOTOR STARTERS



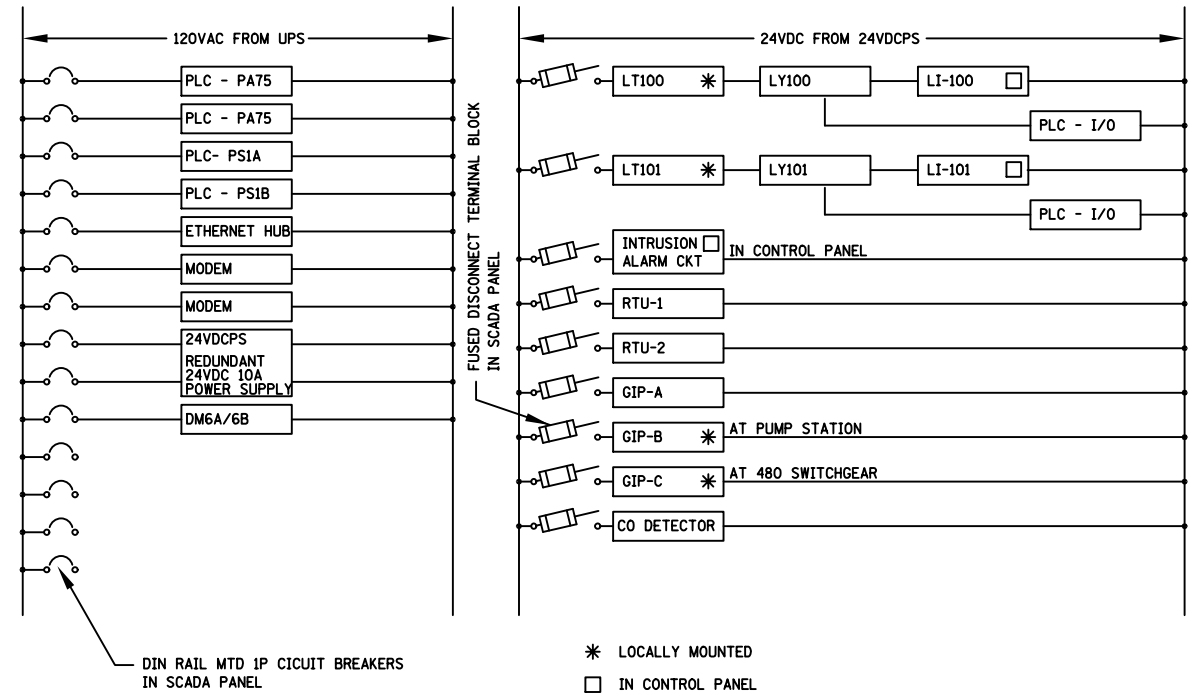
### MODIFICATION OF EXISTING "XP" POWER PANEL-2 (PP-2) PUMP ROOM

**NOTES:**

1. REMOVE FIRE PUMP MOTOR, CONDUIT & WIRING. PLUG CONDUIT OPENING AT STARTER.
2. ADD DISCONNECT SW. EXISTING CONDUIT AND CABLE MAY BE REUSED.
3. REMOTE MOTOR, CONDUITS & WIRING PLUG CONDUIT OPENING AT STARTER.



### POWER DISTRIBUTION PANEL A ELECTRICAL CONTROL ROOM



### POWER DISTRIBUTION IN SCADA PANEL

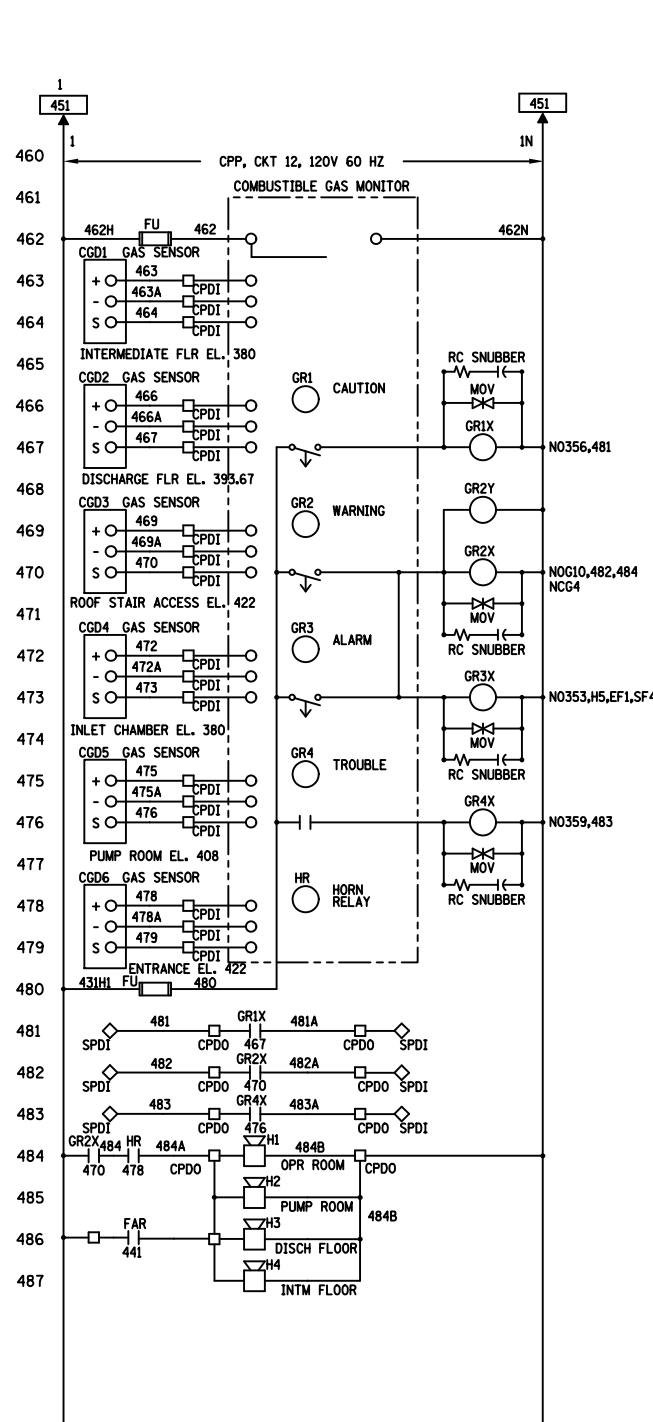
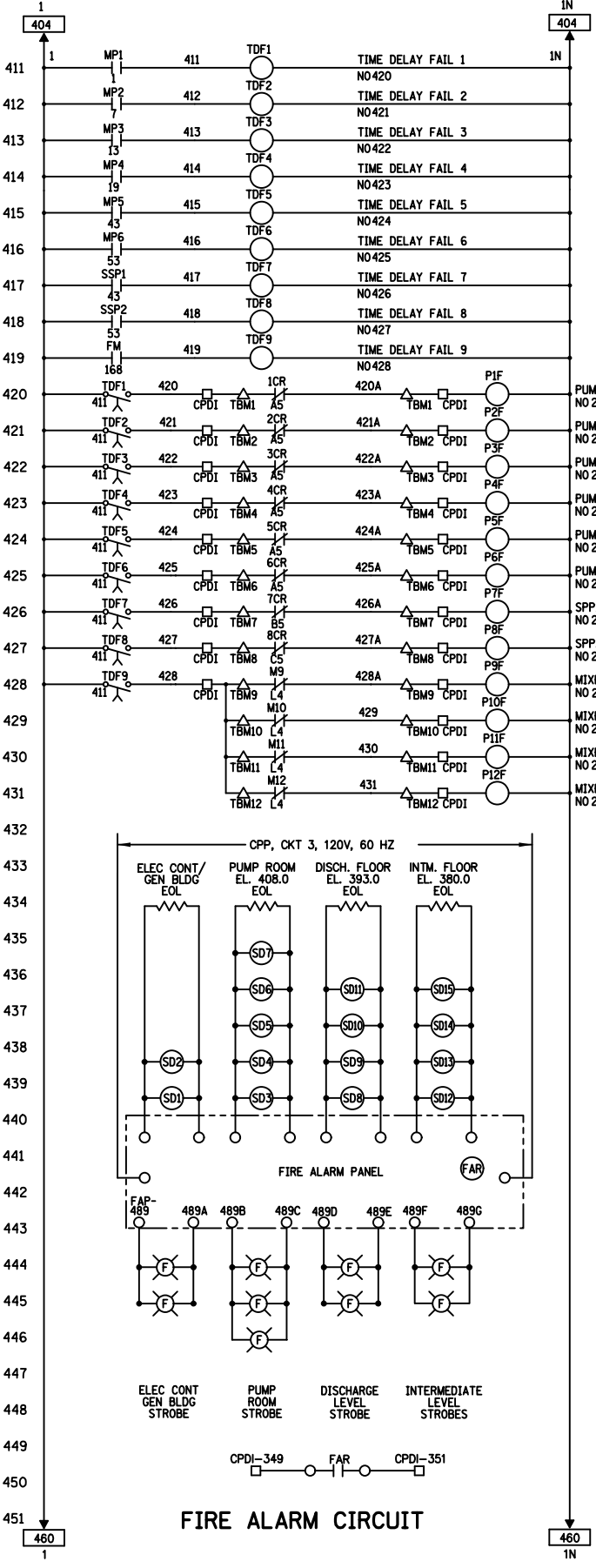
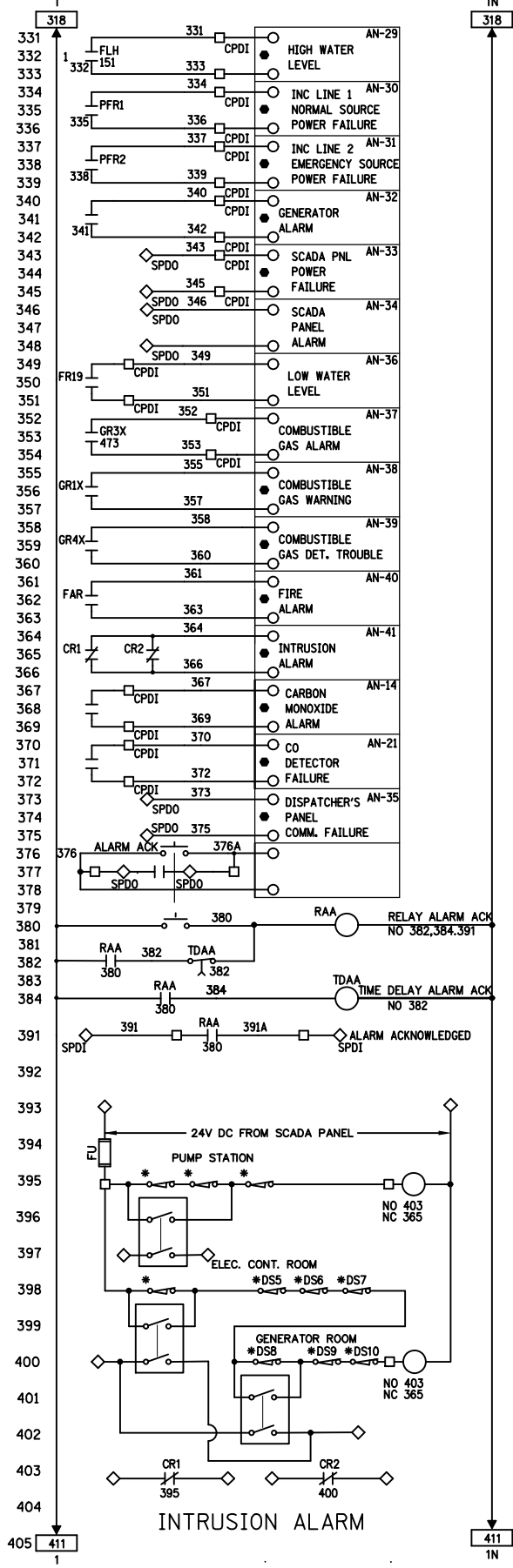
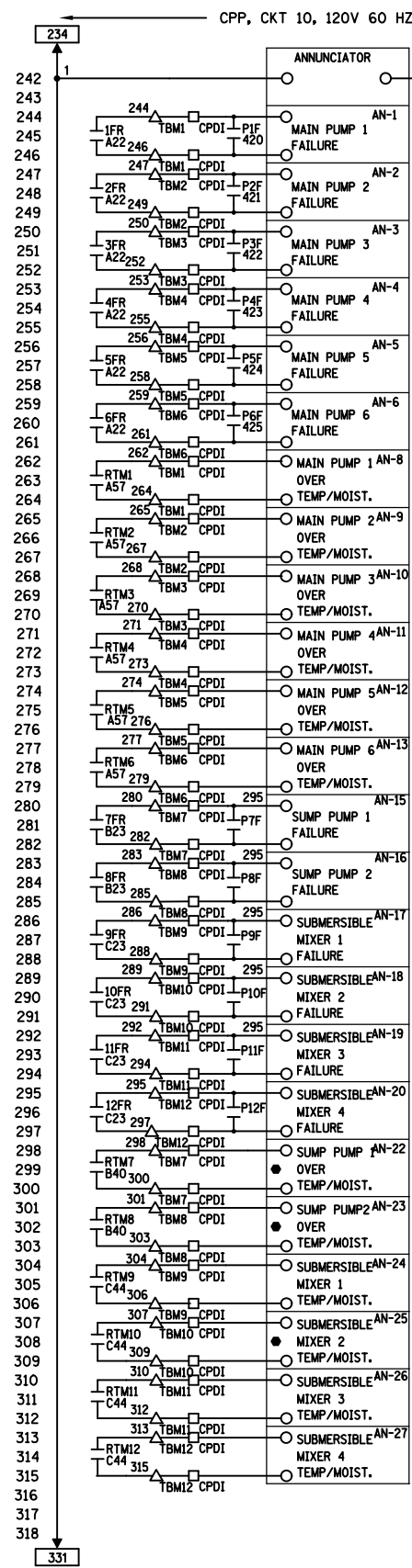
INFORMATION ONLY

FILE NAME =	USER NAME = lewiska	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:				SHEET NO. OF SHEETS STA. TO STA.			
BOWMAN AVENUE PUMP STATION REHABILITATION ELECTRICAL - PANEL BOARD							

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(1,2)T-19	ST CLAIR	12	7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 76F42	



LEGEND:  
 ● : NON LOCK-IN TYPE ANNUNCIATOR POINT  
 ○ : LOCK-IN TYPE ANNUNCIATOR POINT  
 ALL ANNUNCIATOR POINTS SHALL BE SET AS LOCK-IN TYPE UNLESS OTHERWISE INDICATED AS NON LOCK-IN TYPE.

INFORMATION ONLY

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BOWMAN AVENUE PUMP STATION  
 REHABILITATION ELECTRICAL - CONTROL PANEL SCHEMATIC

FILE NAME =	USER NAME = lewiska	DESIGNED -	REVISED -
et:\pwork\p1dot1\lewiska\d0286990\d87642-sh1-plan.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -
PLOT DATE = 12/22/2011		DATE -	REVISED -

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(1,2)T-19	ST CLAIR	12	8
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76F42		



FOR INFORMATION ONLY

11	MAIN PUMP 1 FAILURE	MAIN PUMP 2 FAILURE	MAIN PUMP 3 FAILURE	MAIN PUMP 4 FAILURE	MAIN PUMP 5 FAILURE	MAIN PUMP 6 FAILURE	SPARE	17
18	MAIN PUMP 1 OVER TEMP/MOISTURE	MAIN PUMP 2 OVER TEMP/MOISTURE	MAIN PUMP 3 OVER TEMP/MOISTURE	MAIN PUMP 4 OVER TEMP/MOISTURE	MAIN PUMP 5 OVER TEMP/MOISTURE	MAIN PUMP 6 OVER TEMP/MOISTURE	CARBON MONOXIDE ALARM	14
19	SUMP PUMP 1 FAILURE	SUMP PUMP 2 FAILURE	SUBMERSIBLE MIXER 1 FAILURE	SUBMERSIBLE MIXER 2 FAILURE	SUBMERSIBLE MIXER 3 FAILURE	SUBMERSIBLE MIXER 4 FAILURE	CO DETECTOR FAILURE	21
22	SUMP PUMP 1 OVER TEMP/MOISTURE	SUMP PUMP 2 OVER TEMP/MOISTURE	SUBMERSIBLE MIXER 1 TEMP/MOIST.	SUBMERSIBLE MIXER 2 TEMP/MOIST.	SUBMERSIBLE MIXER 3 TEMP/MOIST.	SUBMERSIBLE MIXER 4 TEMP/MOIST.	SPARE	28
29	HIGH WATER LEVEL	INC LINE 1 NORM SOURCE PWR FAILURE	INC LINE 2 EMER SOURCE PWR FAILURE	GENERATOR ALARM	SCADA PANEL POWER FAILURE	SCADA PANEL ALARM	DISPATCHER'S PANEL COMM. FAIL.	35
34	LOW WATER LEVEL	COMBUSTIBLE GAS ALARM	COMBUSTIBLE GAS WARNING	COMBUSTIBLE GAS DET. TROUBLE	FIRE ALARM	INTRUSION ALARM	SPARE	42

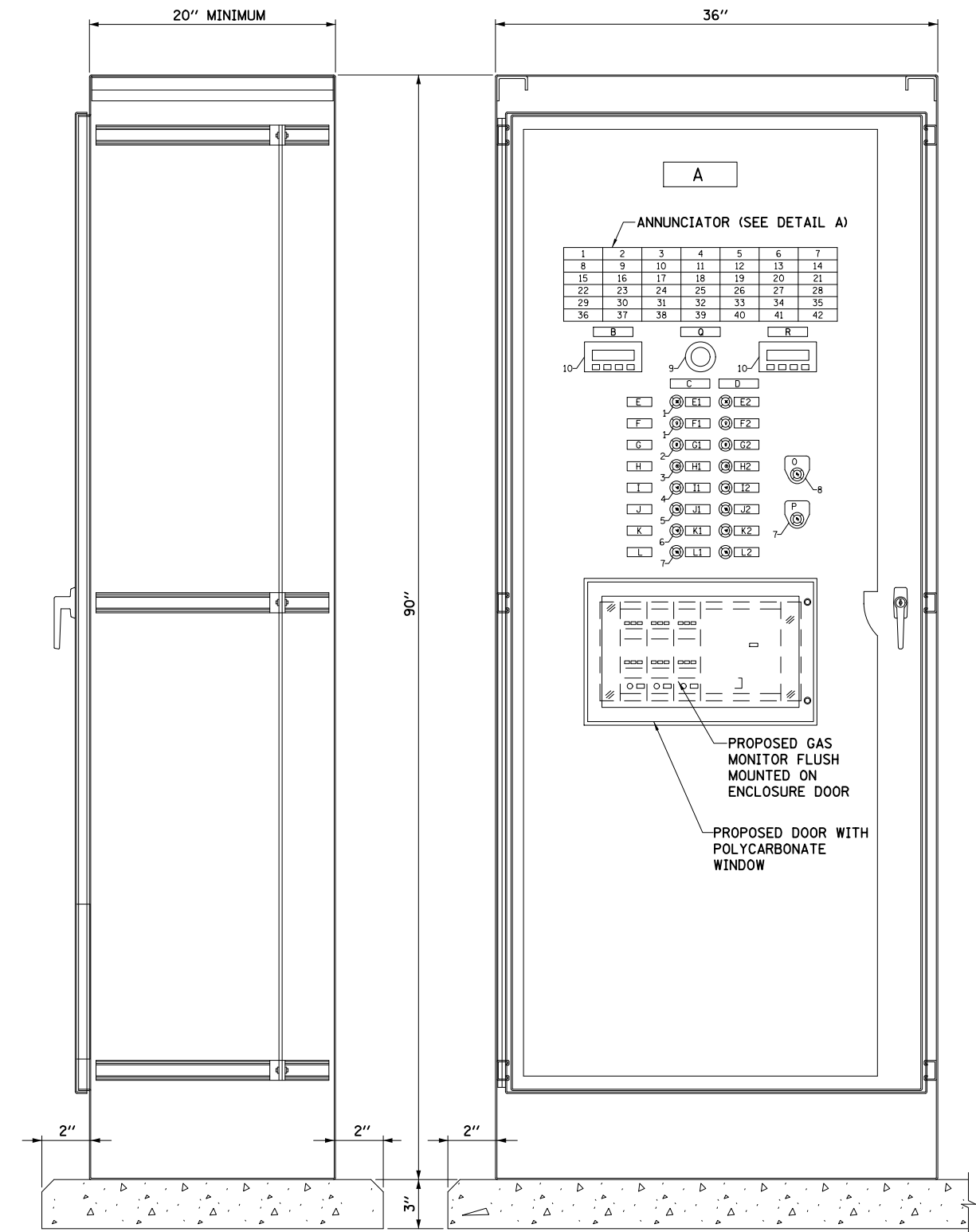
DETAIL A

FOR INFORMATION ONLY

ITEM	NAMEPLATE SCHEDULE
A	CONTROL PANEL
B	ULTRASONIC WET WELL LVL, LI-100 FT ABOVE WET PIT FLR
C	SCADA PUMP CALL, FEET ABOVE WET PIT FLOOR
D	FLOAT PUMP CALL, FEET ABOVE WET PIT FLOOR
E	LAG 5 MAIN PUMP CALL
F	LAG 4 MAIN PUMP CALL
G	LAG 3 MAIN PUMP CALL
H	LAG 2 MAIN PUMP CALL
I	LAG 1 MAIN PUMP CALL
J	LEAD MAIN PUMP CALL
K	LAG SUMP PUMP CALL
L	LEAD SUMP PUMP CALL
M	
N	
O	ALARM ACKNOWLEDGE
P	LAMP TEST
Q	ALARM BUZZER
R	HYDDROSTATIC WET WELL LVL, LI-101 FT ABOVE WET PIT FLR
E1	13.0 FEET
E2	13.5 FEET
F1	12.0 FEET
F2	12.5 FEET
G1	11.0 FEET
G2	11.5 FEET
H1	10.0 FEET
H2	10.5 FEET
I1	9.0 FEET
I2	9.5 FEET
J1	8.0 FEET
J2	8.5 FEET
K1	5.5 FEET
K2	6.5 FEET
L1	5.0 FEET
L2	6.0 FEET

FOR INFORMATION ONLY

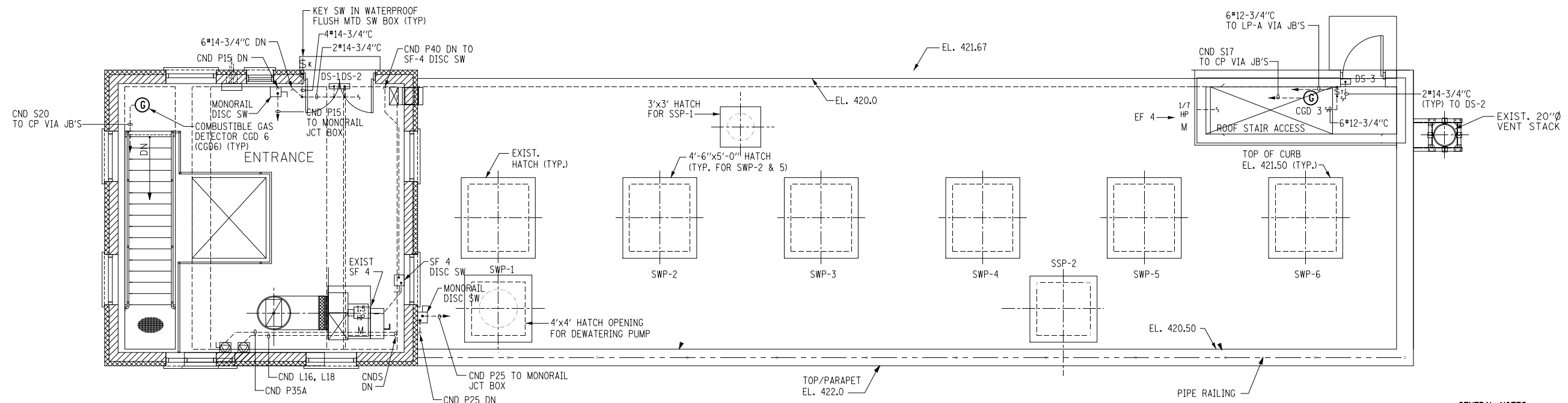
ITEM	DEVICE DESCRIPTION	DEVICE COLOR
1	INDICATING LIGHT	RED
2	INDICATING LIGHT	CLEAR
3	INDICATING LIGHT	BLUE
4	INDICATING LIGHT	AMBER
5	INDICATING LIGHT	YELLOW
6	INDICATING LIGHT	WHITE
7	PUSH BUTTON	YELLOW
8	PUSH BUTTON	GREEN
9	ALARM BUZZER	
10	DIGITAL METER	



SIDE VIEW - PANEL REMOVED

CONTROL PANEL - FRONT VIEW

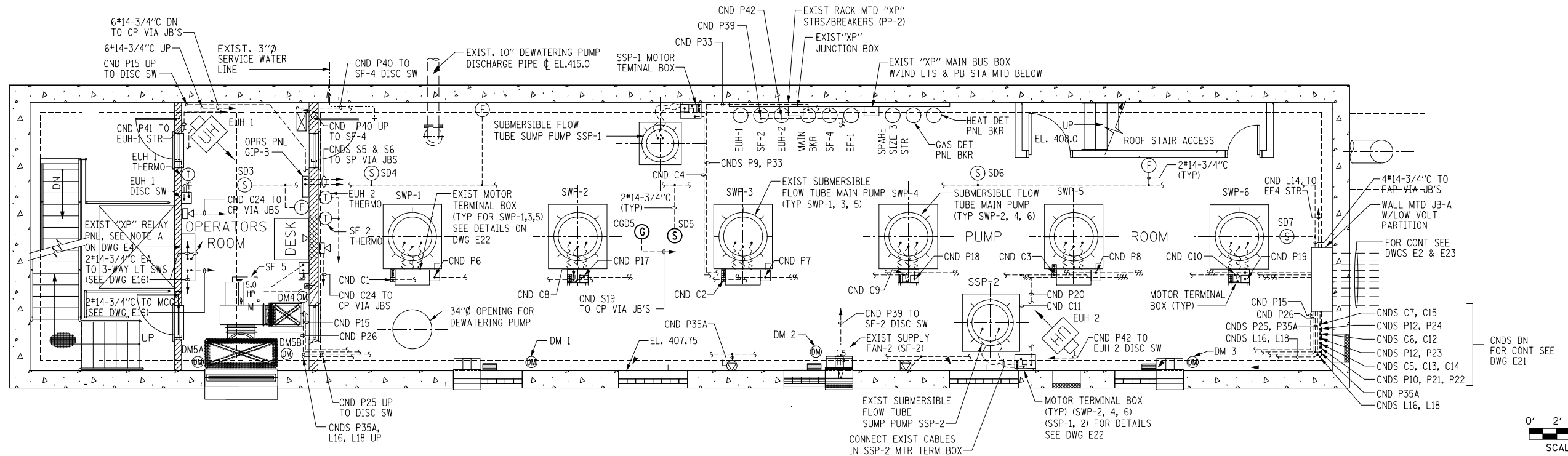
NOTE:  
PROPER CLEARANCE SHALL BE PROVIDED BETWEEN DOOR MOUNTED DEVICES  
AND PANEL MOUNTED DEVICES.



PLAN @ EL. 422.0

**GENERAL NOTES:**

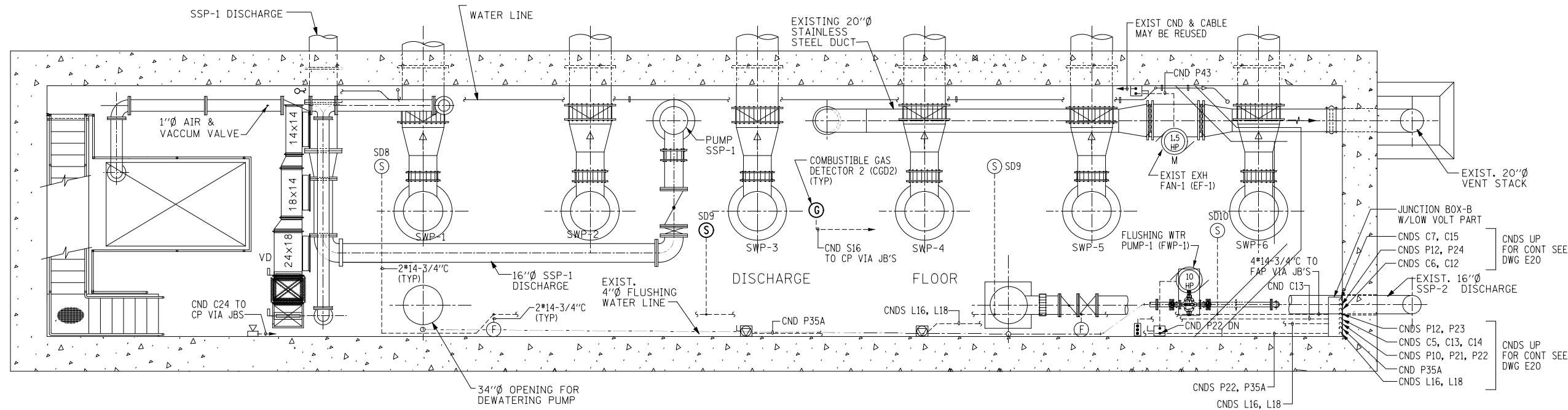
1. ALL ELECTRICAL INSTALLATION IN THE PUMP STATION INCLUDING SUPERSTRUCTURE, LOWER LEVELS AND STAIRWAYS, SHALL MEET THE REQUIREMENTS OF NEC HAZARDOUS LOCATION CLASS 1, DIVISION 2, GROUP D.
2. THE L PREFIX AS IN L16, L18 ETC. DESIGNATES CONDUIT AND CABLE ROUTED TO LIGHTING PANEL B



**PUMP ROOM  
PLAN @ EL. 408.0**

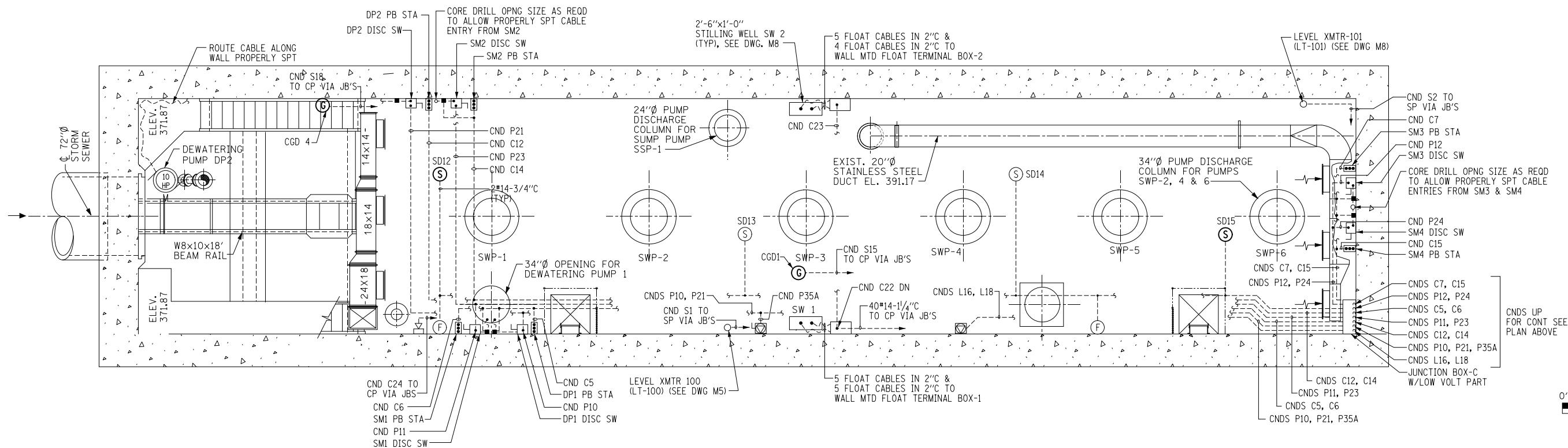
INFORMATION ONLY

FILE NAME =	USER NAME = lewiska	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOWMAN AVENUE PUMP STATION REHABILITATION ELECTRICAL GAS &amp; SMOKE DETECTOR LOCATIONS SHEET 1</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\midot\lewiska\d0286990\d87642-sh1-plan.dgn	PLOT SCALE = 100.0000' / 1in.	DRAWN -	REVISED -			70	82-(1,2)T-19	ST CLAIR	12	10	
	PLOT DATE = 12/22/2011	CHECKED -	REVISED -			CONTRACT NO. 76F42					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



DISCHARGE FLOOR  
PLAN @ EL. 393.67

NOTES:  
1. SEE GENERAL NOTES ON DWG E20

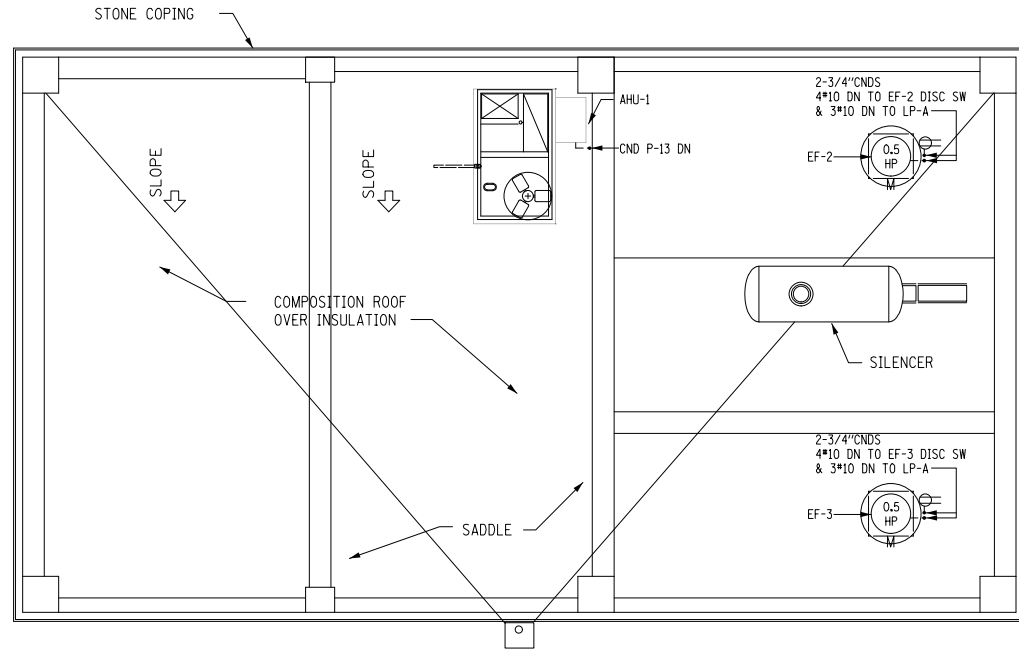


INTERMEDIATE FLOOR  
PLAN @ EL. 380.0

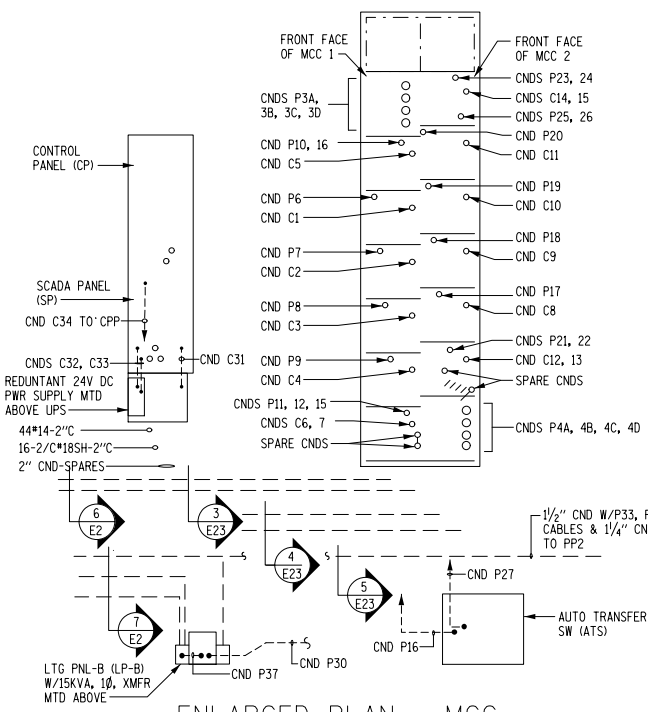
INFORMATION ONLY

FILE NAME =	USER NAME = lewiska	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BOWMAN AVENUE PUMP STATION REHABILITATION ELECTRICAL GAS &amp; SMOKE DETECTOR LOCATIONS SHEET 2</b>	F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw_work\p\midot\lewiska\d0286990\d87642-sh1-plan.dgn		DRAWN -	REVISED -			70	82-(1,2)T-19	ST CLAIR	12	11	
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 76F42					
PLOT DATE = 12/22/2011		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

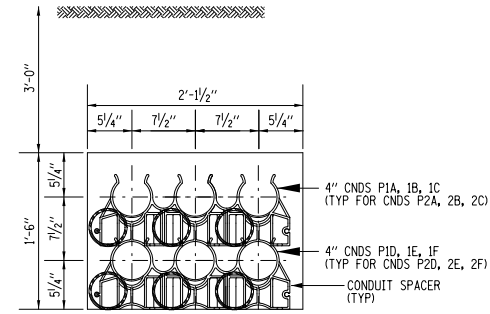
SCALE: SHEET NO. OF SHEETS STA. TO STA.



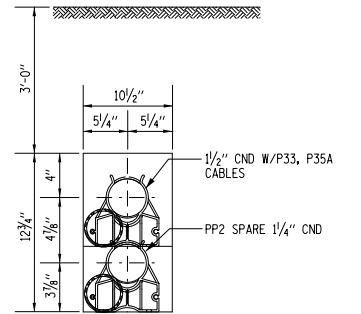
ROOF PLAN



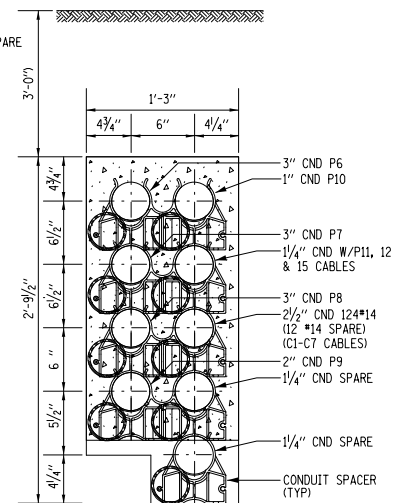
ENLARGED PLAN - MCC  
NOT TO SCALE



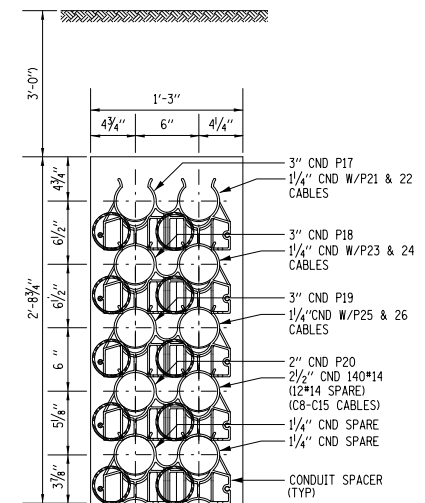
SECTION - 1  
(TYP FOR SECTION - 2)  
NOT TO SCALE



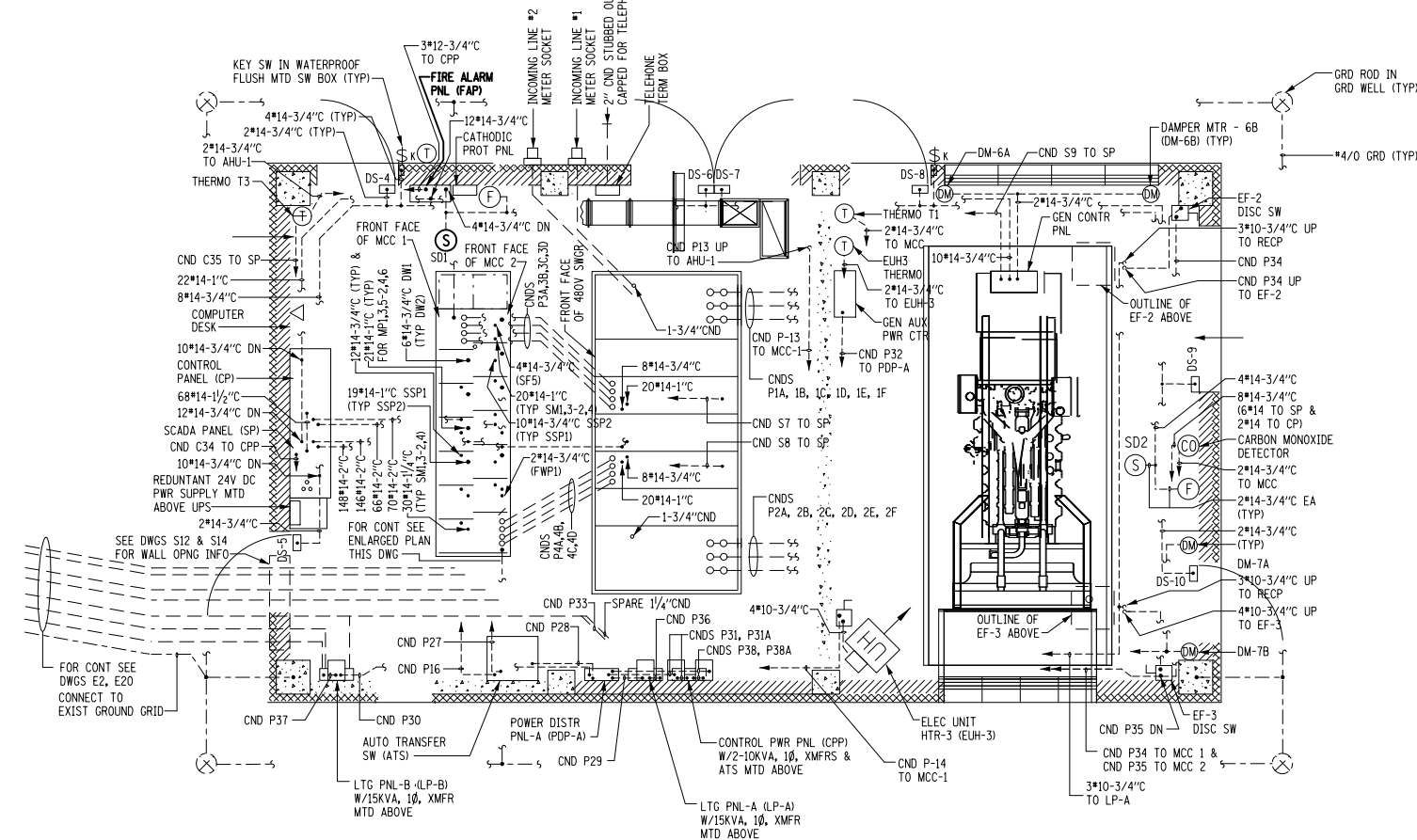
SECTION - 5  
NOT TO SCALE



SECTION - 3  
NOT TO SCALE



SECTION - 4  
NOT TO SCALE

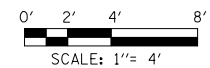


POWER PLAN

ELECTRICAL CONTROL/GENERATOR BUILDING

- GENERAL NOTES:
1. ALL ELECTRICAL INSTALLATION IN THE ELECTRICAL CONTROL/GENERATOR BUILDING ROOM SHALL BE NON-HAZARDOUS.
  2. ALL CONTROL CABLES SHALL BE AWG NO. 14 STRANDED, UNLESS OTHERWISE NOTED.
  3. ALL CONDUIT AND PIPE PENETRATIONS, THROUGH WALL AND/OR FLOOR SLAB, BETWEEN HAZARDOUS AND/OR NON-HAZARDOUS AREAS SHALL BE GROUTED GAS TIGHT.
  4. ALL FLOOR & WALL PENETRATIONS SHALL BE CORE DRILLED & SEALED WITH NON-SHRINK GROUT.
  5. "2/C\*18SH" REPRESENTS "2 CONDUCTOR \*18 SHIELDED CABLE".

NOTES:  
A. SEE DWG E33 FOR CONDUIT & CABLE SCHEDULE



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FILE NAME =	USER NAME = lewiska	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BOWMAN AVENUE PUMP STATION REHABILITATION ELECTRICAL  
GAS & SMOKE DETECTOR LOCATIONS SHEET 3

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(1,2)T-19	ST CLAIR	12	12
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 76F42	