

October 25, 2024

**Subject: RFQ #2497-A: Soft Starters - South Fayette Plant Blower
Addendum #1**

Gentlemen/Ladies:

Below, please find responses to questions, clarification, or additional information for the above referenced **RFQ**. You will need to consider this information when preparing your quote.

- 1. Can you share most recent version of the MCC #1 and #2 drawings with us?
See Attachment 1.**
- 2. Do you have any preference on a soft-starter manufacturer?
Allen Bradley or approved equal**
- 3. Are there any requirements on adding extra SCADA signals from the new soft-starter panels beyond the statuses and commands that already exist in the system?
No.**
- 4. Are there any requirements on the panel material?
Powder coated steel and equal rating as existing MCC**

Received by (Name): _____ Company _____

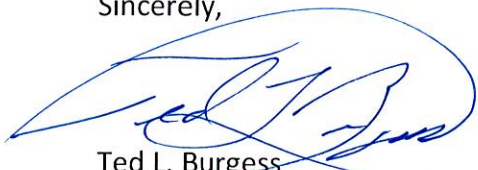
Note: If this addendum is not returned to the Fayette County Purchasing Department or if it is returned not signed, responding individuals, companies or other organizations will still be responsible for the requirements of this addendum and the specifications or changes herein.

The opening date for this RFQ has not changed. **The opening time and date are 3:30p.m., Friday, November 1, 2024.** Quotes must be received by the Purchasing Department at the address above, Suite 204, at or before the opening date and time. **Please advise that quotes can also be emailed to ccobb@fayettcountyga.gov or faxed to (770) 719-5544.**

The deadline for inquiries has passed, so the Purchasing Department will not be able to accept any additional questions after this time.

If you have questions, please contact Colette Cobb, Contract Administrator at (770) 305-5115, fax (770) 719-5544 or email at ccobb@fayettecountyga.gov .

Sincerely,

A handwritten signature in blue ink, appearing to read "Ted L. Burgess", enclosed within a large, loopy blue oval.

Ted L. Burgess
Chief Procurement Officer

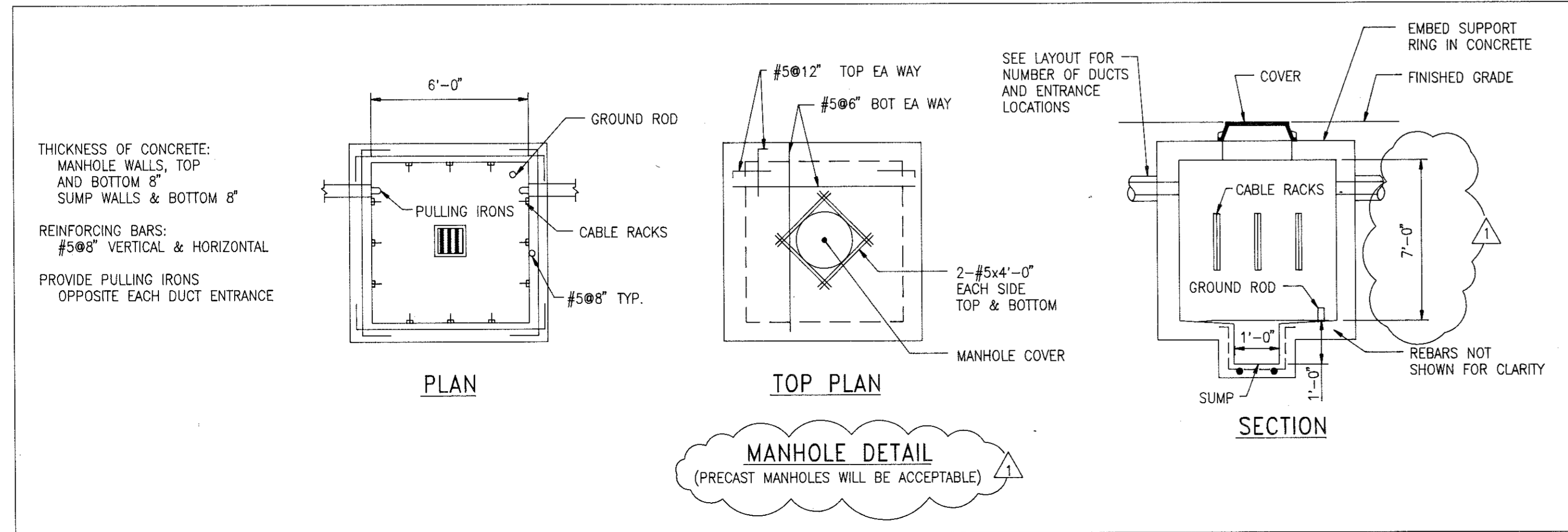
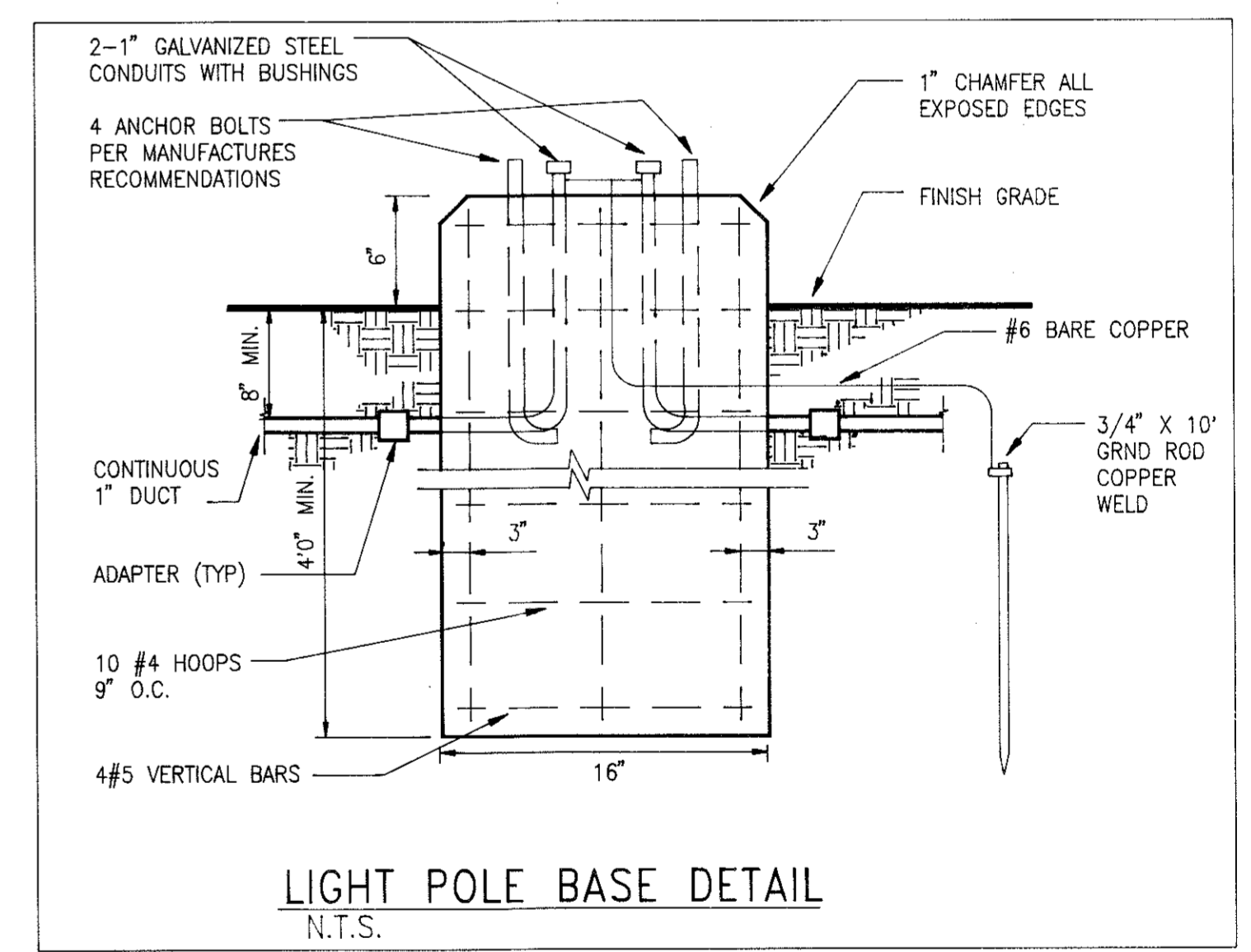
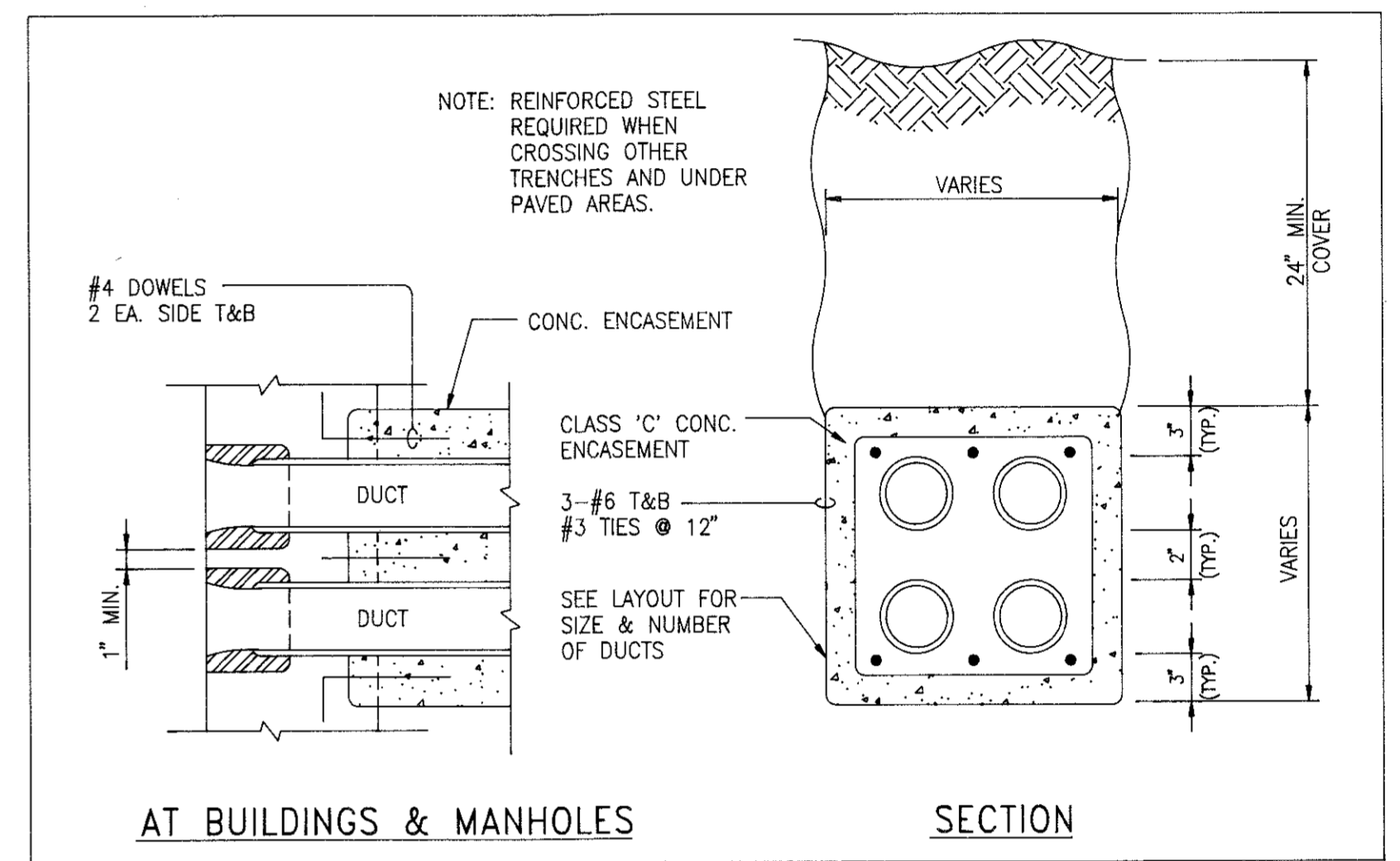
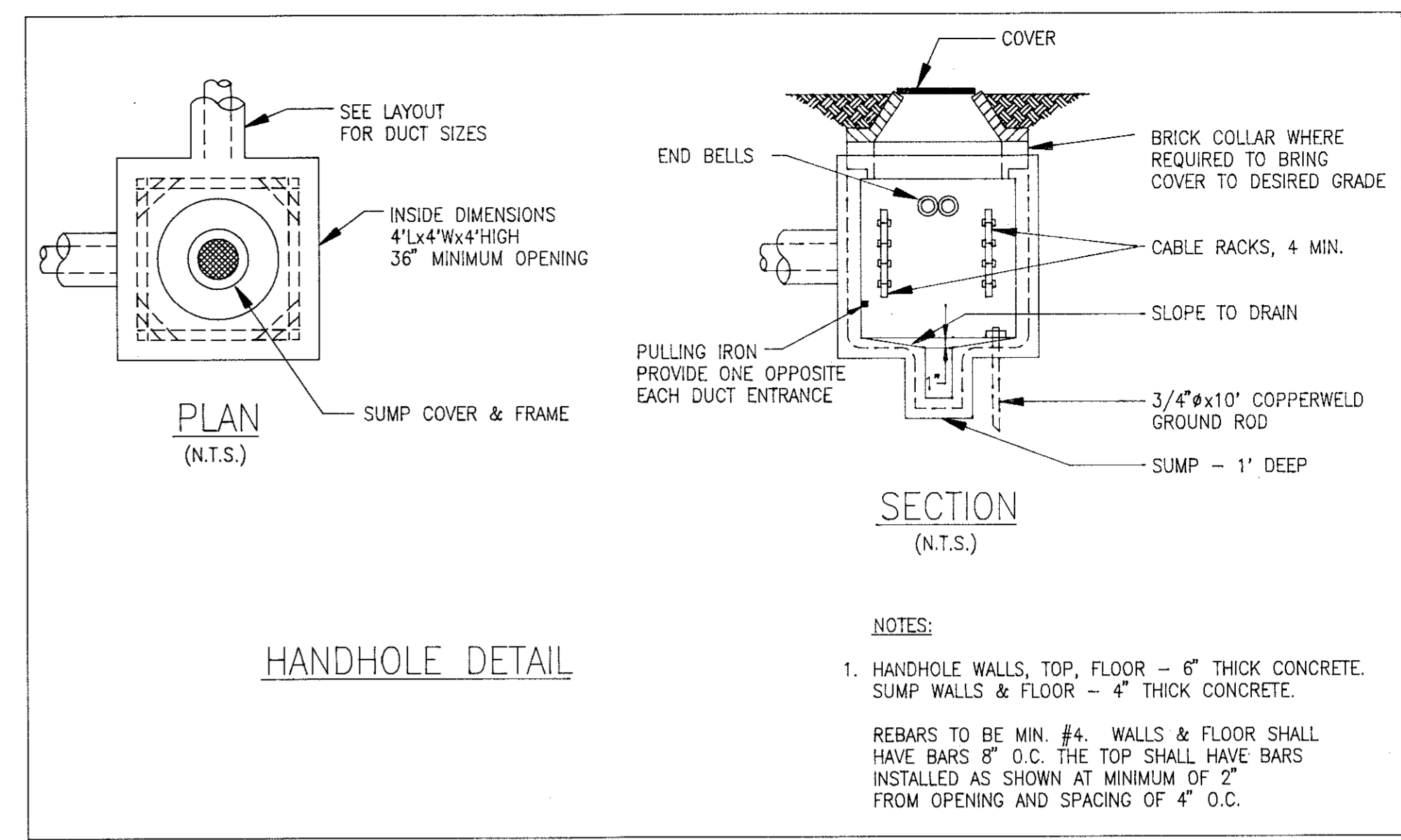
TLB/cc

Attachment

LEGEND	
	UNDERGROUND DUCT BANK
	ELECTRICAL MANHOLE
	POLE MOUNTED LUMINAIRE SEE LIGHT FIXTURE SCHEDULE
	GROUND MOUNTED SIGN FLOODLIGHT
	WALL MOUNTED FLOODLIGHT, TYPE 'H3'
	CONDUIT BANK
	CONDUIT RUN EXPOSED
	CONDUIT CONCEALED IN FLOOR AND/OR WALL
	CONDUIT CONCEALED IN WALL AND/OR ABOVE SUSPENDED CEILING
	HOMERUN TO PANELBOARD CIRCUIT NUMBERS AS INDICATED. SHORT HASHMARKS INDICATE NUMBER OF NO.12 AWG PHASE CONDUCTORS. LONG HASHMARKS INDICATE NUMBER OF NO.12 AWG NEUTRAL CONDUCTORS. NO HASHMARKS INDICATE 2#12AWG CONDUCTORS IN THE CONDUIT. GROUND CONDUCTOR(S) (NOT SHOWN) SERVED PER N.E.C. MUST BE PROVIDED IN EACH CONDUIT.
	LIGHTING PANELBOARD
	DISTRIBUTION PANELBOARD
	LIGHTING TRANSFORMER
	JUNCTION BOX
	FLUORESCENT LIGHT FIXTURE WITH OUTLET. FIXTURE TYPE AS INDICATED.
	UNSWITCHED LIGHT FIXTURE
	EXIT SIGN
	SINGLE POLE SWITCH, 48" AFF
	THREE WAY SWITCH, 48" AFF
	MANUAL MOTOR STARTER, 48" AFF
	DUPLEX RECEPTACLE, 18" AFF
	SPECIAL OUTLET, RATING AS NOTED ON DRAWINGS, 18" AFF
	TELEPHONE OUTLET. PROVIDE 3/4" C W/PULLWIRE TO TEL. BACKBOARD/JUNCTION BOX.
	HEAVY DUTY DISCONNECT SWITCH. AMPERE RATING/POLES/ENCLOSURE TYPE AS INDICATED.
	CONTROL STATION, SEE SCHEMATIC DIAGRAM FOR REQUIREMENTS.
	TRANSFORMER
	KILOWATTOUR METER
	AMMETER
	VOLTMETER
	VOLTMETER SELECTOR SWITCH FOUR POSITION--"A-B, B-C, C-A, OFF"
	AMMETER SELECTOR SWITCH FOUR POSITION--"A, B, C, OFF"
	CURRENT TRANSFORMER
	POTENTIAL OR CONTROL-POWER TRANSFORMER
	SURGE SUPPRESSOR
	LOW VOLTAGE POWER CIRCUIT BREAKER
	MOLDED CASE CIRCUIT BREAKER MCP DENOTES MOTOR CIRCUIT PROTECTOR
	MAGNETIC STARTER-CONTACTOR WITH THERMAL ELEMENT
	SOLID STATE STARTER WITH BYPASS CONTACTOR
	MOTOR--NUMBER INSIDE INDICATES HORSEPOWER RATING
	HEAVY DUTY DISCONNECT SWITCH. AMPERE RATING, NO. OF POLES AND ENCLOSURE TYPE AS NOTED.
	STARTER COIL
	CONTROL POWER TRANSFORMER
	FUSE
	OVERLOAD RELAY CIRCUIT OPENS ON OVERLOAD
	NORMALLY OPEN (N.O.) CONTACT
	TIME DELAY RELAY TDAE: DENOTES TIME DELAY AFTER ENERGIZING TDAD: DENOTES TIME DELAY AFTER DEENERGIZING
	TIME DELAY RELAY CONTACT CLOSING AFTER TIME DELAY
	TIME DELAY RELAY CONTACT OPENS AFTER TIME DELAY
	TIME DELAY RELAY CONTACT OPENS INSTANTANEOUSLY. CLOSING AFTER TIME DELAY
	TIME DELAY RELAY CONTACT CLOSING INSTANTANEOUSLY OPENS AFTER TIME DELAY
	INDICATING LIGHT R: RED G: GREEN A: AMBER
	PUSH-TO-TEST-TYPE R: RED G: GREEN A: AMBER
	SELECTOR SWITCH THREE POSITION H-O-A: HAND-OFF-AUTO L-O-R: LOCAL-OFF-REMOTE
	SELECTOR SWITCH, TWO POSITION
	MOMENTARY CONTACT PUSHBUTTON "STOP"
	MOMENTARY CONTACT PUSHBUTTON "START"
	LEVEL OR FLOAT SWITCH
	PRESSURE SWITCH
	OVERTORQUE SWITCH OPENS ON OVERLOAD
	TEMPERATURE SWITCH
	NORMALLY CLOSED (N.C.) CONTACT
	SOLENOID VALVE
	LIMIT SWITCH
	ELAPSED TIME METER
	SOLID STATE STARTER
	THERMOSTAT
	PHASE FAILURE RELAY

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
F1	8' INDUSTRIAL FIXTURE, HEAVY GAUGE COLD ROLLED STEEL CHANNEL, BAKED WHITE ENAMEL FINISH, TWO 96HO T8/41K FLUORESCENT LAMPS, 120V ELECTRONIC BALLAST. LITHONIA #EJA296HOT8-120-GE8
F2	8' FLUORESCENT FIXTURE, IMPACT-RESISTANT, UV-RESISTANT, REINFORCED POLYESTER HOUSING, ACRYLIC DIFFUSER, TWO 96HO T8/41K FLUORESCENT LAMPS, 120V ELECTRONIC BALLAST. LITHONIA #DM296HOT8-120-GE8
F3	4' FLUORESCENT FIXTURE, IMPACT-RESISTANT, UV-RESISTANT, REINFORCED POLYESTER HOUSING, ACRYLIC DIFFUSER, 2-32W T8/41K FLUORESCENT LAMPS, 120V ELECTRONIC BALLAST. LITHONIA #DM232-120-GE8
F4	2'x4' GRID TYPE TROFFER, 22 GAUGE COLD ROLLED STEEL HOUSING, BAKED WHITE ENAMEL FINISH, FLUSH STEEL DOOR, INJECTION MOLDED ACRYLIC LENS, 4-32W T8/35K FLUORESCENT LAMPS, 120V ELECTRONIC BALLAST. LITHONIA #2GT432A12-120-GE8
F5	SIMILAR TO TYPE 'F4' EXCEPT WITH TWO LAMPS. LITHONIA #2GT232A12-120-GE8
F6	2'x4' TROFFER, PARABOLIC TYPE TO CONTROL GLARE, 27 CELL LOUVER, 3-32W T8/35K FLUORESCENT LAMPS, 120V ELECTRONIC BALLAST. LITHONIA #2PMOG332-27-LD-120-GE8
F7	4' INDUSTRIAL FIXTURE, HEAVY GAUGE COLD ROLLED STEEL CHANNEL WITH APERTURED TOP, BAKED WHITE ENAMEL FINISH, 2-32W T8/41K FLUORESCENT LAMPS, 120V ENERGY SAVING BALLAST. LITHONIA #EJA232-120-GE8
H1	WALL BRACKET, CORROSION-RESISTANT, DIE-CAST ALUMINUM HOUSING, DARK BRONZE FINISH, 70W, 120V, PHOTOELECTRIC CELL. HITEK #TWL70S-120-PE
H2	70W H.P.S. STANCHION MOUNT FIXTURE, ENCLOSED & GASKETED, 120V BALLAST. HOLOPHANE #PETL-070HP-12-545-ST-F1
H3	WALL MOUNTED FLOODLIGHT, CAST ALUMINUM HOUSING, U.L. LISTED SUITABLE FOR WET LOCATIONS, DARK BRONZE FINISH, TEMPERED HEAT RESISTANT GLASS LENS, 100 WATT HIGH PRESSURE SODIUM LAMP, 120 VOLT BALLAST. HITEK #TFM100SRB-120-LP1
H4	SIMILAR TO TYPE 'H3' EXCEPT WITH 50W LAMP. HITEK #TFM50SRG-120-LP1
H5	SIMILAR TO TYPE 'H1' EXCEPT WITHOUT PHOTOELECTRIC CELL. HITEK #TWL-70S-120
I1	WALL MOUNTED INCANDESCENT FIXTURE, 2-60W LAMPS, 120V, INSTALL FIXTURE 6'-0" A.F.F. MCLEAN LIGHTING WORKS - 'ZENKE'
I2	100W INCANDESCENT ENCLOSED & GASKETED WALL BRACKET WITH GLOBE & GAURD. CROUSE HINDS #VXH150P
V1	POLE MOUNTED FLOODLIGHT, CAST ALUMINUM HOUSING, U.L. LISTED SUITABLE FOR WET LOCATIONS, DARK BRONZE FINISH, TEMPERED HEAT RESISTANT GLASS LENS, 250 WATT H.P.S. LAMP, 120V BALLAST, 30" SQUARE STEEL POLE-BRONZE FINISH. LUMINAIRE: HITEK #TFR250SRB-120-LP1-IS POLE: HITEK #SSS-30-5C-DDB-T20
0A	POLE MOUNTED 250W H.P.S. LUMINAIRE, DIE CAST ALUMINUM HOUSING WITH DIE CAST DOOR FRAME, TEMPERED GLASS LENS, U.L. LISTED FOR WET LOCATIONS, 208V BALLAST, IES TYPE III DISTRIBUTION LUMINAIRE: HITEK #KAD250SR3-208-SPD04 POLE: HITEK #SSS-30-5C-DDB-DM19
0B	SIMILAR TO TYPE '0A' EXCEPT WITH IES TYPE IV DISTRIBUTION. LUMINAIRE: HITEK #KAD250SR4-208-SPD04 POLE: HITEK #SSS-30-5C-DDB-DM19
⊗	EXIT SIGN, NORMAL AND EMERGENCY OPERATION, RED LETTERS, LED, WHITE HOUSING, 120V AC INPUT, UNIVERSAL MOUNTING. LITHONIA #LXSW1REL-120



Mallett & Associates, Inc.
 115-B BRADFORD SQUARE FAYETTEVILLE, GEORGIA 30215
 PHONE: 770-719-3333
 FAX: 770-719-3377

SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
 for
FAYETTE COUNTY WATER SYSTEM



E-1 ELECTRICAL LEGEND, DETAILS AND LIGHT FIXTURE SCHEDULE

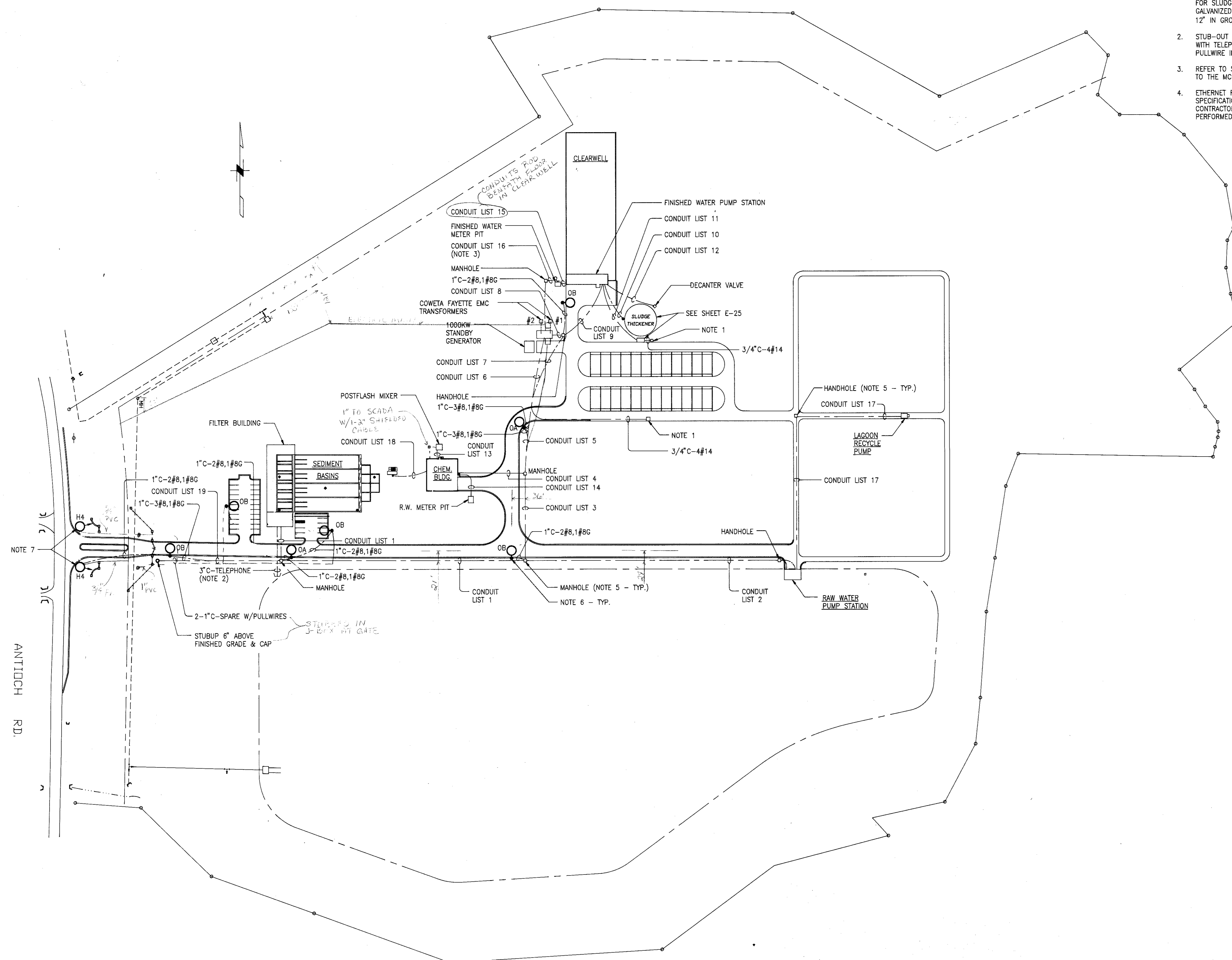
REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT	DESIGN	SCALE
1	4/26/99	REVISED PER ADDENDUM #2	SNK		GEORGIA	-	SNK	NONE
						DISTRICT - 183, 184, 201 & 202	PNB	DATE 10/16/98
						SECTION - 4th		FILE NO. 96158
						CITY -		SHEET NO. 130
						COUNTY - FAYETTE		
						APPROVED JEM		

NOTES:

- PROVIDE START-STOP P.B. STATION IN NEMA-4X ENCLOSURE FOR SLUDGE TRANSFER PUMP MOUNTED ON 6" HIGH, 4" GALVANIZED STEEL CHANNEL. INSTALL THE CHANNEL MINIMUM 12" IN GROUND AND GROUT AROUND IT.
- STUB-OUT AND CAP THE TELEPHONE CONDUIT. COORDINATE WITH TELEPHONE COMPANY FOR EXACT LOCATION. PROVIDE PULLWIRE IN THE CONDUIT.
- REFER TO SHEET E-21 FOR ROUTING OF THESE CONDUITS TO THE MCC'S.
- ETHERNET FIBEROPTIC CABLES SHALL BE SUPPLIED UNDER SPECIFICATION SECTION 13440 AND INSTALLED BY ELECTRICAL CONTRACTOR. TERMINATION OF THESE CABLES SHALL BE PERFORMED UNDER SECTION 13440.
- REFER TO SHEET E1 FOR HANDHOLE & MANHOLE DETAILS.
- PROVIDE POLE BASE IN ACCORDANCE WITH DETAIL ON SHEET E1.
- PROVIDE A 12"x12"x12" CONCRETE PAD. PROVIDE A WATERTIGHT JUNCTION BOX ON CONCRETE PAD AND INSTALL THE SIGN LUMINAIRE ON THE JUNCTION BOX. AIM THE LUMINAIRE FOR BEST COVERAGE.

UNDERGROUND CONDUIT LISTS (NOTE 4)

- | | |
|------------------------------------|-------------------------------------|
| LIST 1 | LIST 9 |
| 3"C-3-500MCM,1#1/OG | 2"C-TELEPHONE |
| 3"C-3-500MCM, 1#1/OG | 2"C-TWO ETHERNET FIBEROPTIC CABLES |
| 3"C-3-500MCM,1#2G | 2"C-SPARE |
| 2"C-TWO ETHERNET FIBEROPTIC CABLES | 2"C-SPARE |
| 1"C-3#8,1#8G | 3/4"C-4#14 |
| 2"C-TELEPHONE | |
| 2"C-SPARE | LIST 10 |
| 2"C-SPARE | 1"C-3#12,1#12G & 4#14 |
| 1"C-SPARE | 3/4"C-2#12,1#12G |
| 1"C-SPARE | 1"C-LEVEL SENSOR LE-001 CABLE |
| LIST 2 | LIST 11 |
| 3"C-3-500MCM,1#2G | 1"C-3#12,1#12G |
| 3"C-3-500MCM,1#2G | 1"C-7#14 |
| 2"C-TWO ETHERNET FIBEROPTIC CABLES | 1"C-3#10,1#10G |
| 2"C-TELEPHONE | 1"C-SPARE |
| 2"C-SPARE | |
| LIST 3 | LIST 12 |
| 3"C-3-500MCM,1#1/OG | 1"C-3#12,1#12G & 8#14 (CONTROL) |
| 3"C-3-500MCM,1#1/OG | |
| 3"C-3-500MCM,1#2G | LIST 13 |
| 3"C-3-500MCM,1#2G | 3/4"C-3#12,1#12G |
| 3"C-3-500MCM,1#2G | 3/4"C-3#12,1#12G |
| 2"C-TWO ETHERNET FIBEROPTIC CABLES | LIST 14 |
| 2"C-TELEPHONE | 1"C-TWO 1PAIR#16 TWISTED & SHIELDED |
| 2"C-SPARE | 3/4"C-4#12,1#12G |
| 2"C-SPARE | LIST 15 |
| LIST 4 | 3/4"C-3#12,1#12G |
| 3"C-3-500MCM,1#2G | 3/4"C-1PAIR#16 TWISTED & SHIELDED |
| 2"C-TWO ETHERNET FIBEROPTIC CABLES | LIST 16 |
| 2"C-TELEPHONE | 4 SETS OF 3"C-3-500MCM,1#4/OG |
| 2"C-SPARE | 4 SETS OF 3"C-3-500MCM,1#4/OG |
| LIST 5 | 3-3"C SPARE |
| 3"C-3-500MCM,1#1/OG | 3-3"C SPARE |
| 3"C-3-500MCM,1#1/OG | 1"C-3#6,1#8G |
| 3"C-3-500MCM,1#2G | LIST 17 |
| 3"C-3-500MCM,1#2G | 1 1/2"C-3#10,1#10G & 8#14 |
| 3"C-3-500MCM,1#2G | LIST 18 |
| 2"C-TWO ETHERNET FIBEROPTIC CABLES | 1"C-SENSOR CABLE |
| 1"C-3#8,1#8G | 3/4"C-2#12,1#12G |
| 2"C-TELEPHONE | 3/4"C-2#12,1#12G |
| 2"C-SPARE | 3/4"C-3#12,1#12G |
| 2"C-SPARE | LIST 19 |
| LIST 6 | 1"C-SPARE |
| 3"C-3-500MCM,1#1/OG | 1"C-SPARE |
| 3"C-3-500MCM,1#1/OG | 1"C-SPARE |
| 3"C-3-500MCM,1#2G | 1"C-3#8,1#8G |
| 3"C-3-500MCM,1#2G | |
| 3"C-3-500MCM,1#2G | LIST 7 |
| 3"C-3-500MCM,1#2G | 2"C-TELEPHONE |
| LIST 7 | 2"C-TWO ETHERNET FIBEROPTIC CABLES |
| 2"C-TELEPHONE | 1"C-3#8,1#8G |
| 2"C-TWO ETHERNET FIBEROPTIC CABLES | 2"C-SPARE |
| 1"C-3#8,1#8G | 2"C-SPARE |
| 2"C-SPARE | 3/4"C-4#14 |
| 2"C-SPARE | LIST 8 |
| 3/4"C-4#14 | 2"C-TWO ETHERNET FIBEROPTIC CABLES |
| | 2"C-TELEPHONE |
| | 2"C-SPARE |



ELECTRICAL SITE LAYOUT
1" = 100'



REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT -	DESIGN	SCALE
					GEORGIA	183, 184, 201 & 202	SNK	1" = 100'
						SECTION - 4th	PYB	DATE
						CITY -	SNK	10/16/98
						COUNTY - FAYETTE	CHECK	FILE NO.
						APPROVED	JEM	96158
								SHEET NO.
								131

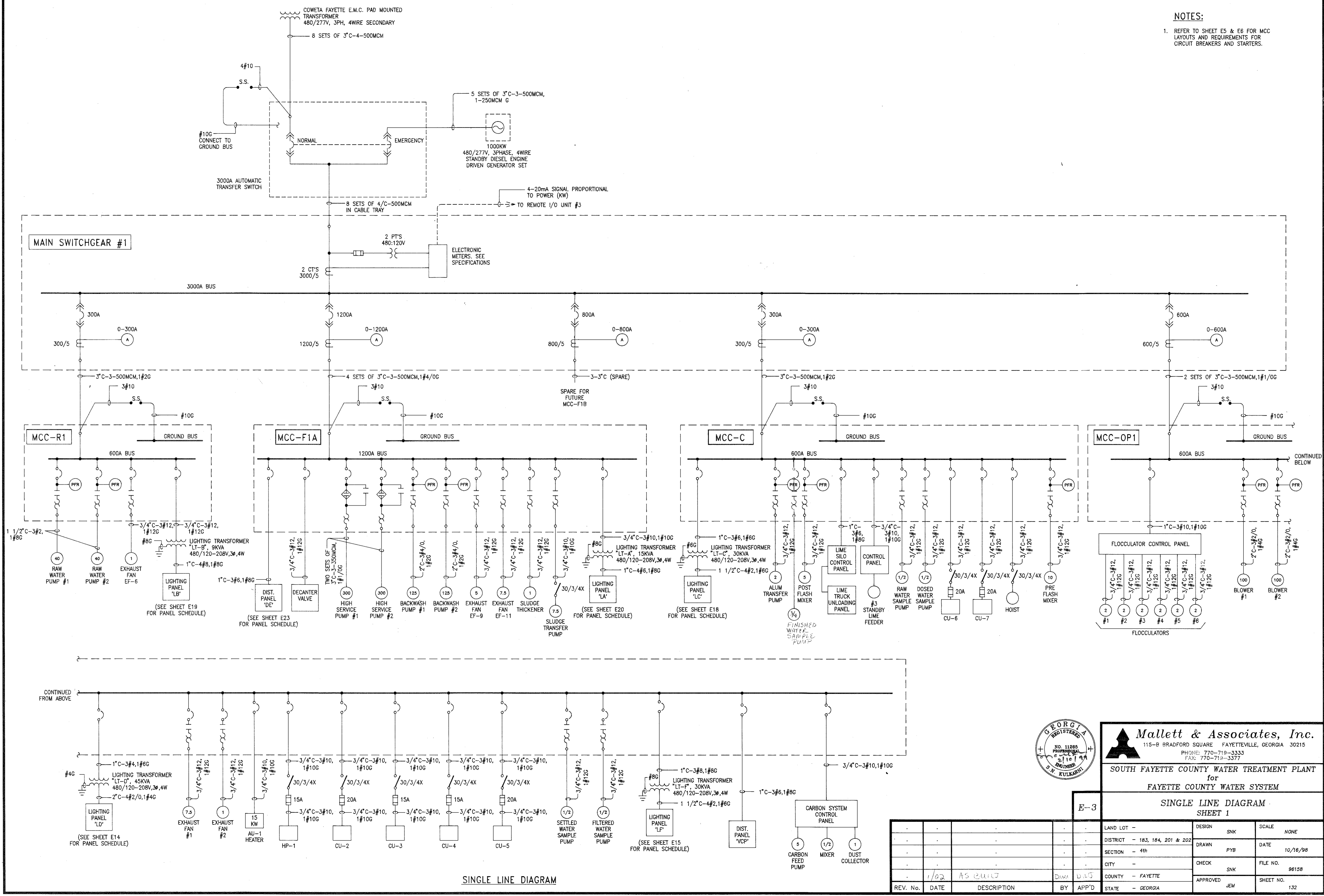
Mallett & Associates, Inc.
115-B BRADFORD SQUARE FAYETTEVILLE, GEORGIA 30215
PHONE: 770-719-3333
FAX: 770-719-3377

SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM

E-2 ELECTRICAL SITE LAYOUT

NOTES:

1. REFER TO SHEET E5 & E6 FOR MCC LAYOUTS AND REQUIREMENTS FOR CIRCUIT BREAKERS AND STARTERS.



SINGLE LINE DIAGRAM



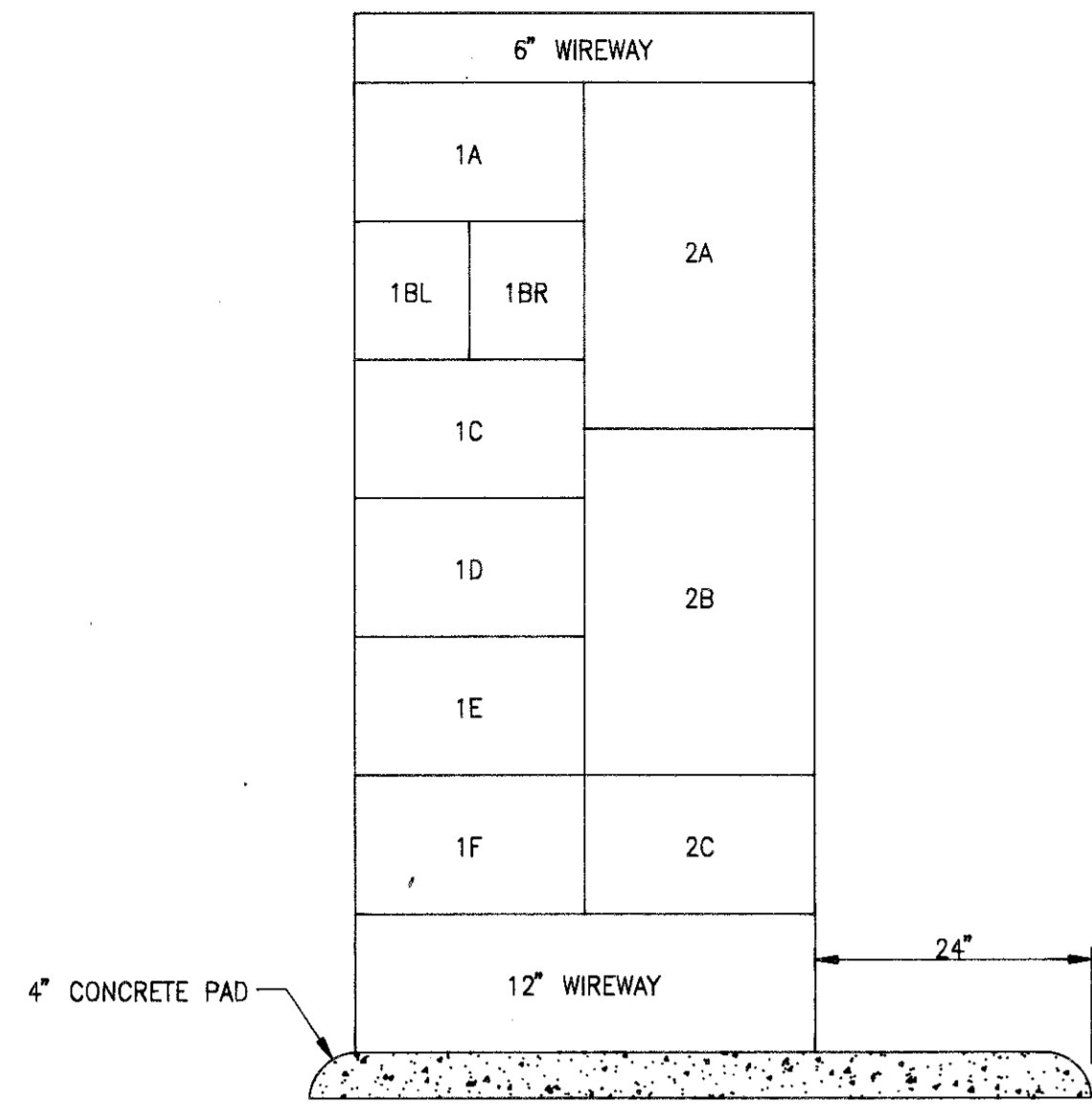
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**SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
 for
 FAYETTE COUNTY WATER SYSTEM**

E-3

**SINGLE LINE DIAGRAM
 SHEET 1**

REV. No.	DATE	DESCRIPTION	BY	APP'D	LAND LOT -	DESIGN	SNK	SCALE	NONE
					DISTRICT - 183, 184, 201 & 202	DRAWN	PYB	DATE	10/16/98
					SECTION - 4th	CHECK	SNK	FILE NO.	96158
					CITY -	APPROVED	JEM	SHEET NO.	132
					COUNTY - FAYETTE				
					STATE - GEORGIA				

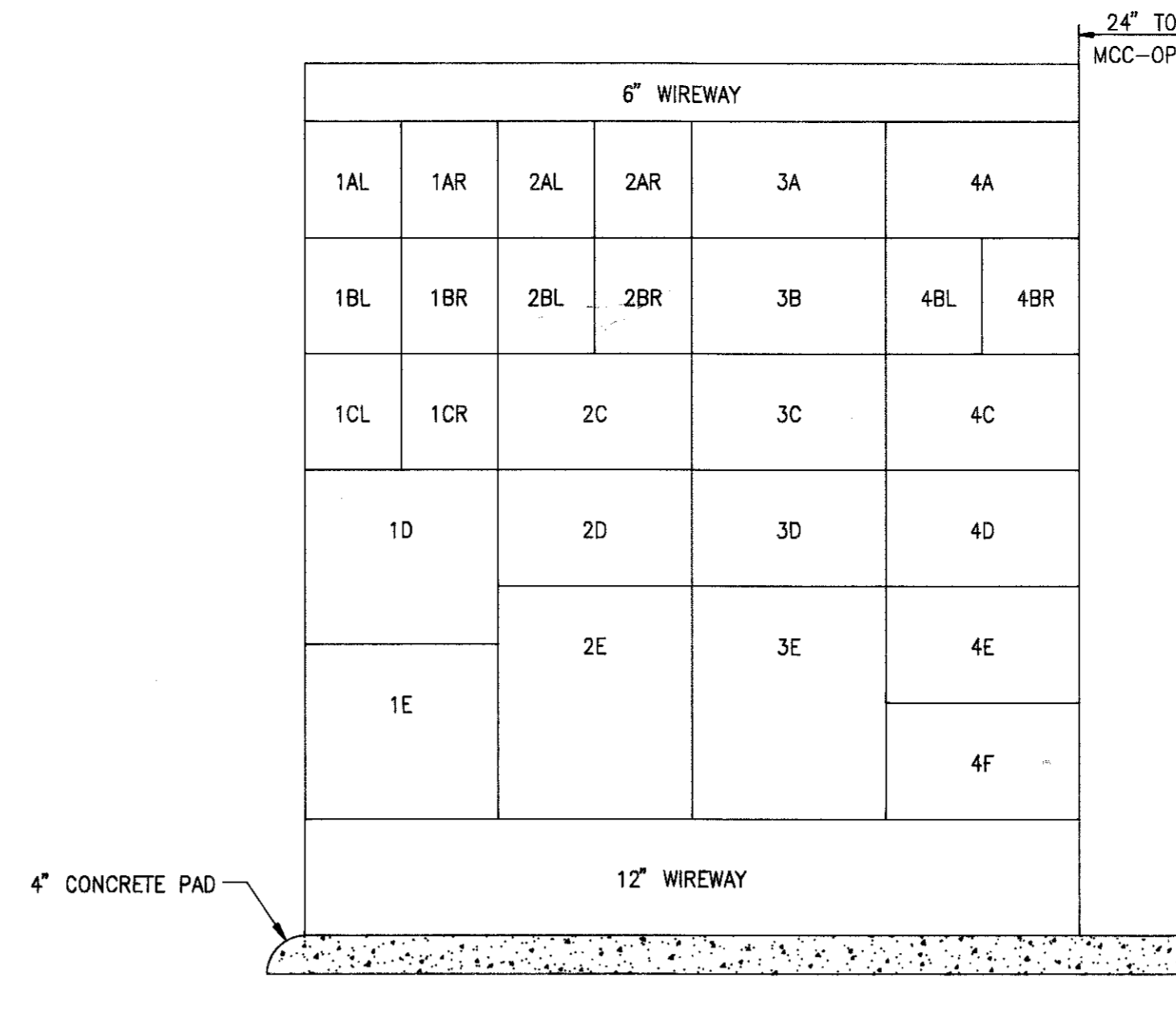


MCC-R1
FRONT VIEW
N.T.S.

MCC-R1

COMPT. NO.	CONTROLLER		MOTOR H.P.	PROTECTIVE DEVICE		NAMEPLATE
	SIZE	TYPE		TYPE	TRIP RATING	
1A						INCOMING LINE
1BL				C.B.	15A	LIGHTING TRANSFORMER 'LT-B'
1BR						(SPACE)
1C	1	FVNR	1	MCP	3A	EXHAUST FAN EF-6
1D						(SPACE)
1E						(SPACE)
1F						(SPACE)
2A	4	FVNR	40 *	MCP	100A	RAW WATER PUMP #1
2B	4	FVNR	40 *	MCP	100A	RAW WATER PUMP #2
2C						(SPACE)

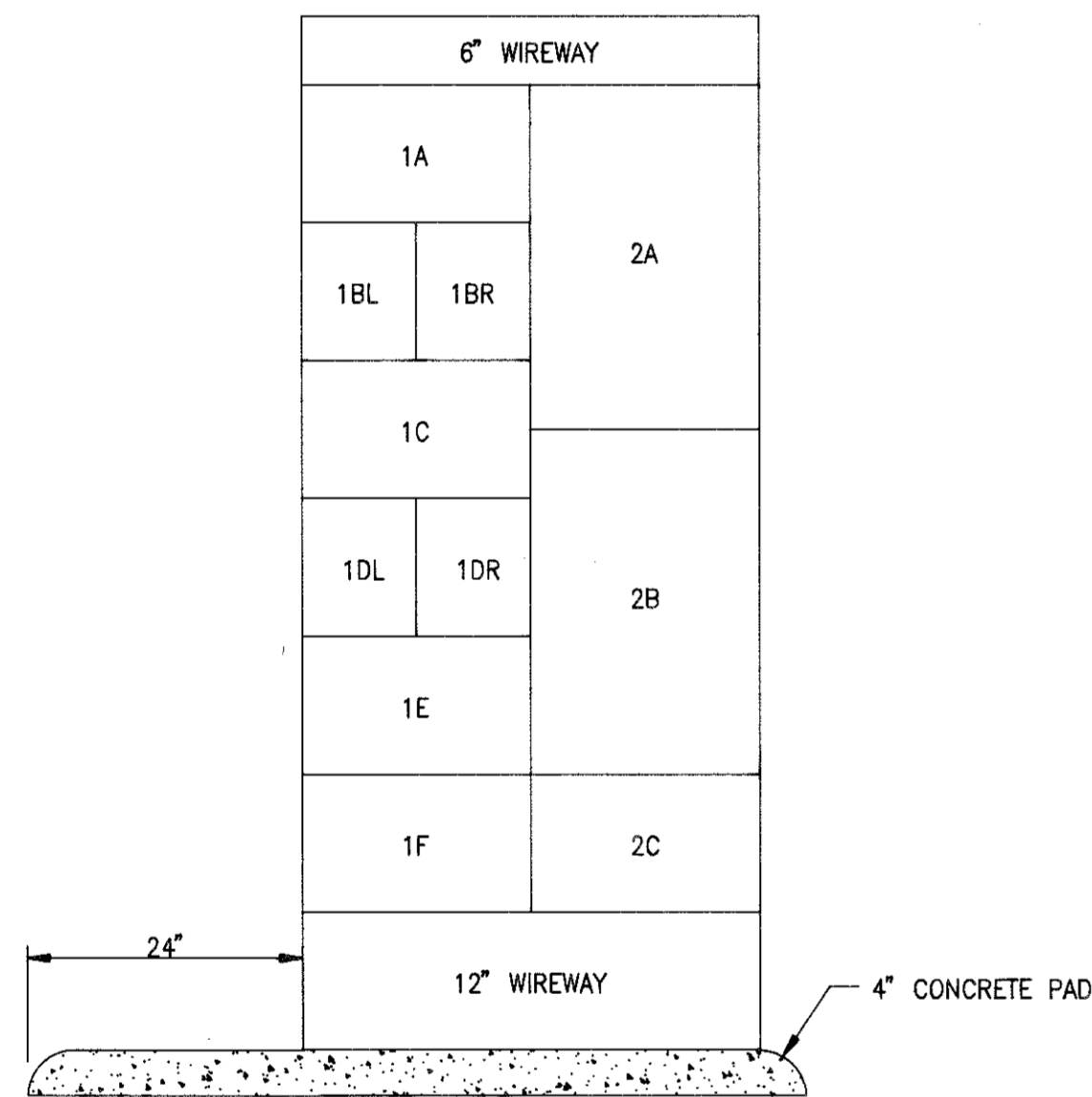
* CONTROLLER SIZED FOR FUTURE 60HP MOTORS. SIZE OVERLOAD HEATERS PER 40HP MOTOR NAMEPLATE DATA.



MCC-OP1
FRONT VIEW
N.T.S.

MCC-OP1

COMPT. NO.	CONTROLLER		MOTOR H.P.	PROTECTIVE DEVICE		NAMEPLATE
	SIZE	TYPE		TYPE	TRIP RATING	
1AL				C.B.	70A	LIGHTING TRANSFORMER 'LT-D'
1AR				C.B.	50A	LIGHTING TRANSFORMER 'LT-F'
1BL				C.B.	30A	FLOCCULATOR CONTROL PANEL
1BR				C.B.	20A	HEAT PUMP HP-1
1CL				C.B.	30A	ELECTRIC HEATER FOR AU-1
1CR				C.B.	50A	DIST. PANEL-'VCP'
1D						SPACE
1E						INCOMING LINE
2AL				C.B.	20A	CONDENSING UNIT CU-2
2AR				C.B.	15A	CONDENSING UNIT CU-3
2BL				C.B.	15A	CONDENSING UNIT CU-4
2BR				C.B.	20A	CONDENSING UNIT CU-5
2C	1	FVNR	7 1/2	MCP	15A	EXHAUST FAN EF-1
2D	1	FVNR	1	MCP	3A	EXHAUST FAN EF-2
2E	4	FVNR	100	MCP	250A	BLOWER #1
3A	1	FVNR	0.5	MCP	3A	SETTLED WATER SAMPLE PUMP
3B	1	FVNR	0.5	MCP	3A	FILTERED WATER SAMPLE PUMP
3C						SPACE
3D						SPACE
3E	4	FVNR	100	MCP	250A	BLOWER #2
4A						(SPACE)
4BL						(SPACE)
4BR				CB	30A	CARBON SYSTEM CONT. PANEL
4C						(SPACE)
4D						(SPACE)
4E						(SPACE)
4F						(SPACE)

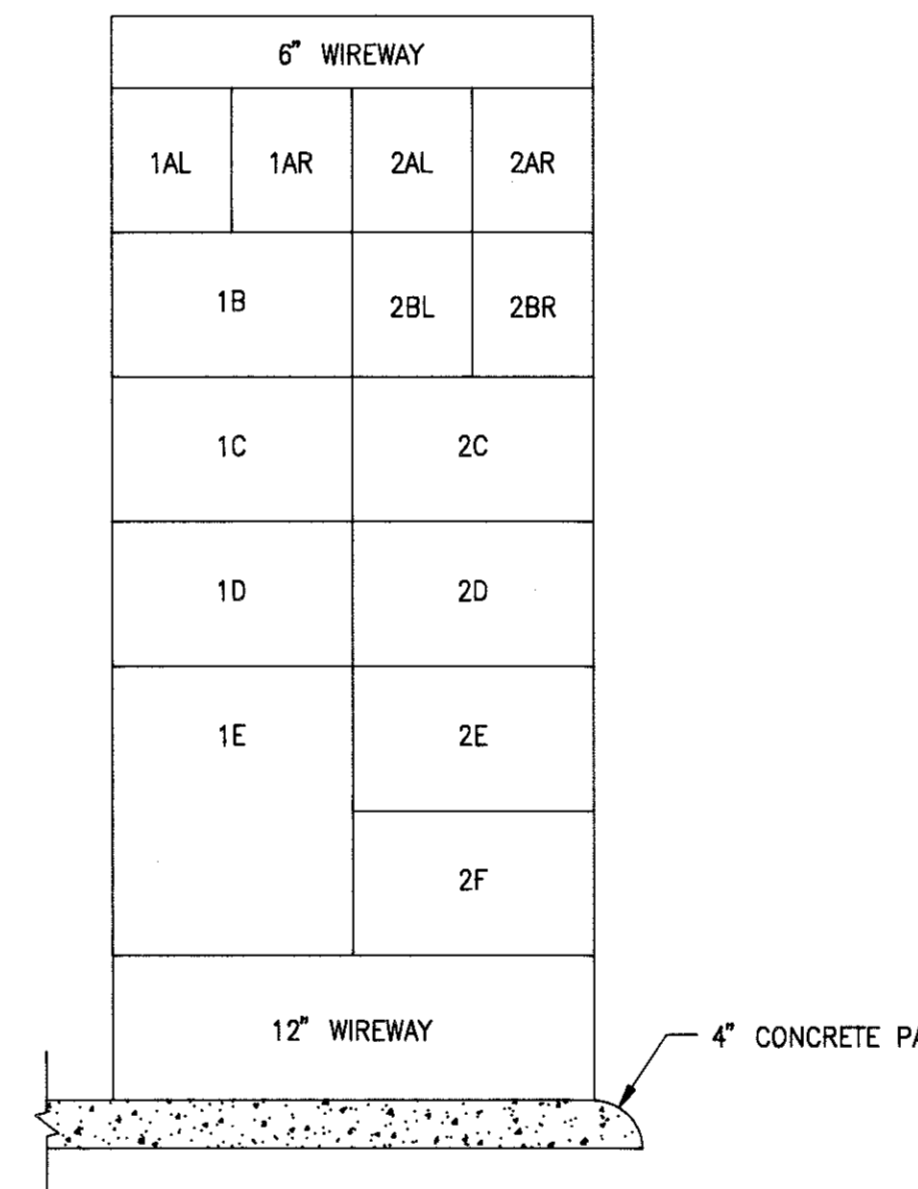


MCC-R2
FRONT VIEW
N.T.S.

MCC-R2

COMPT. NO.	CONTROLLER		MOTOR H.P.	PROTECTIVE DEVICE		NAMEPLATE
	SIZE	TYPE		TYPE	TRIP RATING	
1A						INCOMING LINE
1BL				C.B.	30A	UNIT HEATER
1BR			7.5	C.B.	30A	LAGOON RECYCLE PUMP
1C			1	MCP	3A	EXHAUST FAN EF-7
1DL				C.B.	30A	BRIDGE CRANE
1DR						(SPACE)
1E						(SPACE)
1F						(SPACE)
2A	4**	FVNR	40 *	MCP	100A	RAW WATER PUMP #3
2B	4	FVNR	40 *	MCP	100A	RAW WATER PUMP #4
2C						(SPACE)

* CONTROLLER SIZED FOR FUTURE 60HP MOTORS. SIZE OVERLOAD HEATERS PER 40HP MOTOR NAMEPLATE DATA.
** PROVIDE STARTER FOR FUTURE RAW WATER PUMP #3.



MCC-OP2
FRONT VIEW
N.T.S.

MCC-OP2

COMPT. NO.	CONTROLLER		MOTOR H.P.	PROTECTIVE DEVICE		NAMEPLATE
	SIZE	TYPE		TYPE	TRIP RATING	
1AL				C.B.	70A	ELEVATOR
1AR				C.B.	20A	AIR COMPRESSORS
1B						(SPACE)
1C						(SPACE)
1D						(SPACE)
1E						INCOMING LINE
2AL				C.B.	30A	UNIT HEATER UH-1
2AR				C.B.	30A	UNIT HEATER UH-2
2BL				C.B.	30A	UNIT HEATER UH-3
2BR				C.B.	20A	UNIT HEATER
2C						(SPACE)
2D						(SPACE)
2E						(SPACE)
2F						(SPACE)

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PHONE: 770-719-3333
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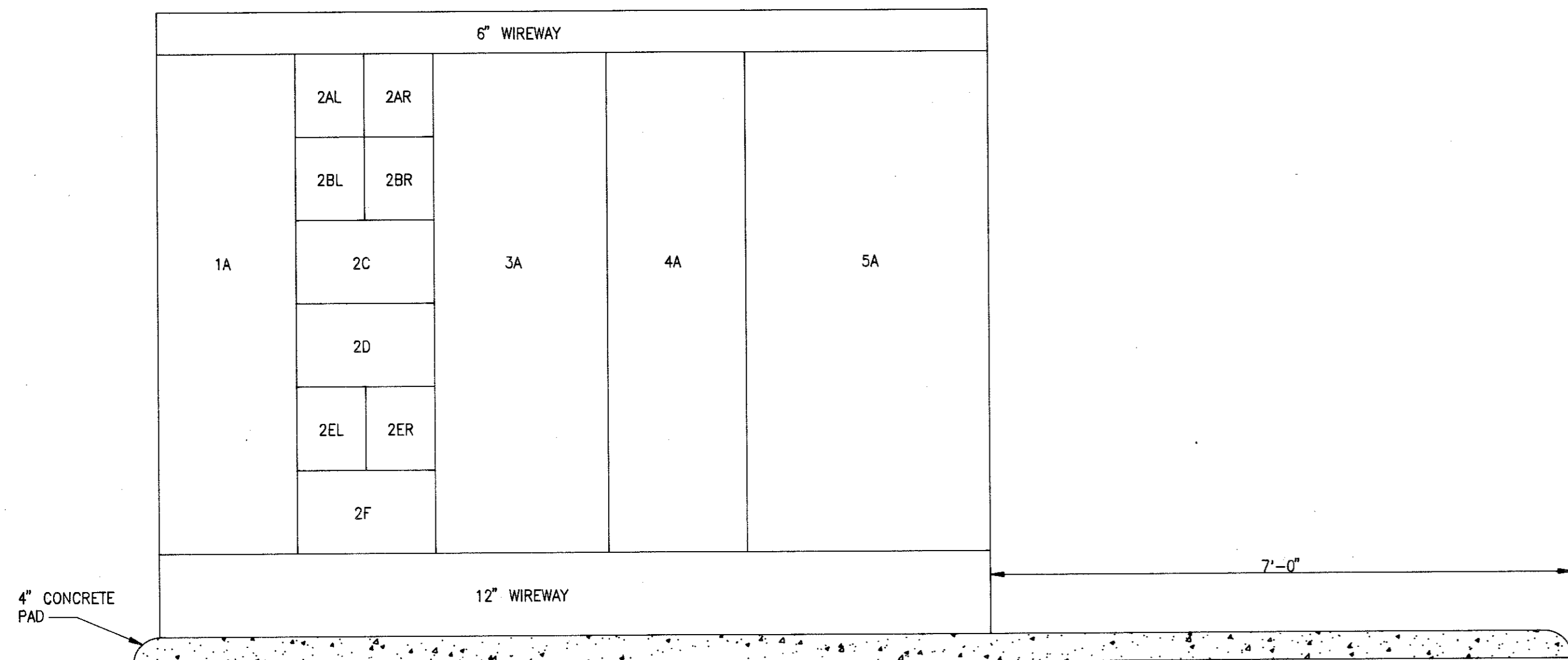
SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM

E-5
MOTOR CONTROL CENTER
SHEET 1



LAND LOT -	DESIGN	SNK	SCALE	NONE
DISTRICT - 183, 184, 201 & 202	DRAWN	PYB	DATE	10/16/98
SECTION - 4th	CHECK	SNK	FILE NO.	96158
CITY -	APPROVED	JEM	SHEET NO.	134
COUNTY - FAYETTE	STATE - GEORGIA			
REV. No.	DATE	DESCRIPTION	BY	APP'D

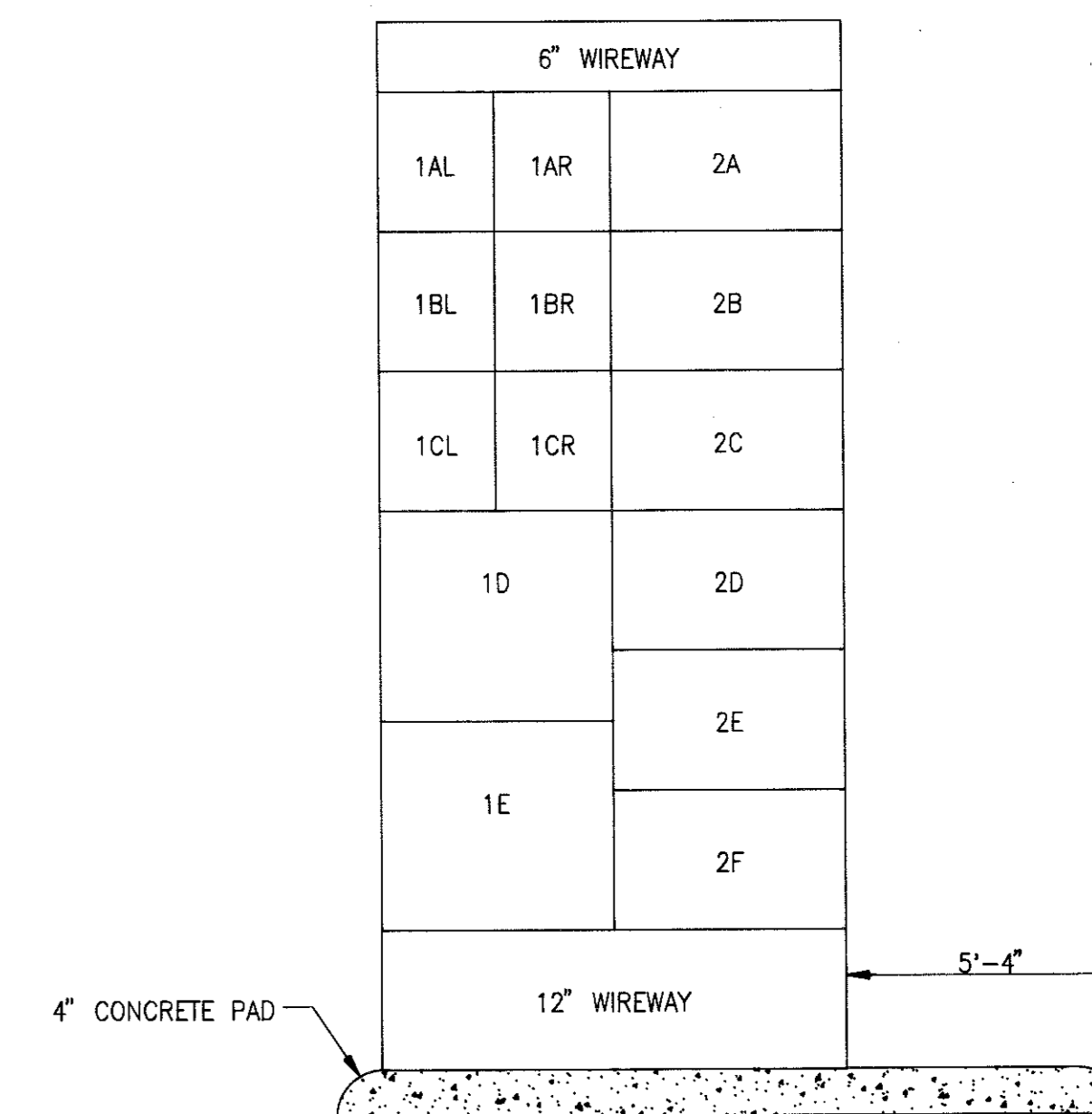
MCC-F2A



MCC-F2A
FRONT VIEW
N.T.S.

COMP. NO.	CONTROLLER		MOTOR H.P.	PROTECTIVE DEVICE		NAMEPLATE
	SIZE	TYPE		TYPE	TRIP RATING	
1A						INCOMING LINE
2AL				CB	20A	UNIT HEATER UH-5
2AR				CB	20A	UNIT HEATER UH-6
2BL				CB	20A	UNIT HEATER UH-7
2BR				CB	20A	UNIT HEATER UH-8
2C	1	FVNR	7 1/2	MCP	15A	EXHAUST FAN EF-10
2D	1	FVNR	7 1/2	MCP	15A	EXHAUST FAN EF-12
2EL				CB	30A	BRIDGE CRANE
2ER				CB	20A	UNIT HEATER UH-9
2F						(SPACE)
3A		*SOLID STATE REDUCED VOLTAGE	300*	CB	800A**	HIGH SERVICE PUMP #3
4A						H.S. PUMP #3 BYPASS CONTACTOR
5A						

* CONTROLLER AND BYPASS CONTACTOR SHALL BE SIZED FOR FUTURE 400HP MOTOR.
** CIRCUIT BREAKER SHALL BE PROVIDED WITH 120V A.C. SHUNT TRIP.



MCC-C
FRONT VIEW
N.T.S.

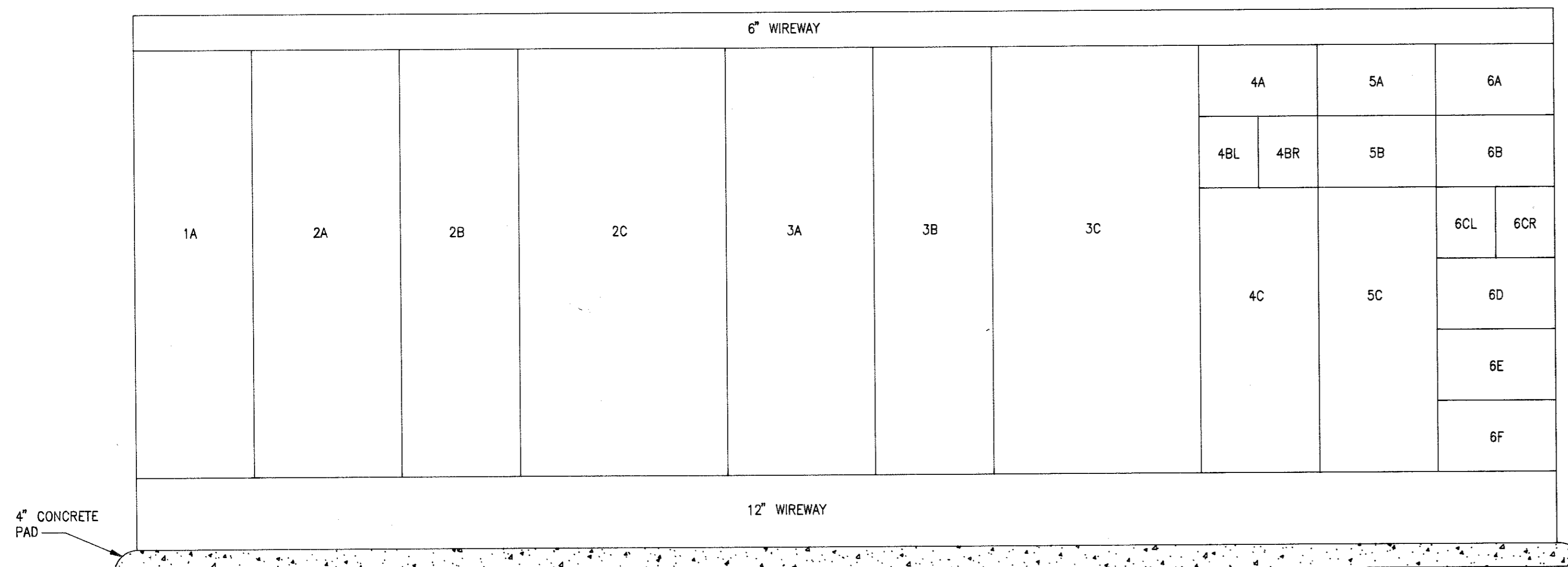
MCC-C

COMPT. NO.	CONTROLLER		MOTOR H.P.	PROTECTIVE DEVICE		NAMEPLATE
	SIZE	TYPE		TYPE	TRIP RATING	
1AL				C.B.	50A	LIGHTING TRANSFORMER 'LT-C'
1AR				C.B.	60A	LIME SILO CONTROL PANEL
1BL				C.B.	20A	CONDENSING UNIT CU-6
1BR				C.B.	20A	CONDENSING UNIT CU-7
1CL				C.B.	20A	HOIST
1CR				C.B.	30A	STANDBY LIME FEEDER
1D						(SPACE) PREFLASH MIXER
1E						INCOMING LINE
2A	1	FVNR	0.5	MCP	3A	RAW WATER SAMPLE PUMP
2B	1	FVNR	0.5	MCP	3A	DOSED WATER SAMPLE PUMP
2C	1	FVNR	2	MCP	7A	ALUM TRANSFER PUMP
2D	1	FVNR	5	MCP	15A	POST FLASH MIXER
2E	1	FVNR	10	MCP	30A	PREFLASH MIXER
2F						(SPACE)

MCC-F1A

COMP. NO.	CONTROLLER		MOTOR H.P.	PROTECTIVE DEVICE		NAMEPLATE
	SIZE	TYPE		TYPE	TRIP RATING	
1A						INCOMING LINE
2A		*SOLID STATE REDUCED VOLTAGE	300*	CB	800A**	HIGH SERVICE PUMP #1
2B						H.S. PUMP #1 BYPASS CONTACTOR
2C						
3A		*SOLID STATE REDUCED VOLTAGE	300*	CB	800A**	HIGH SERVICE PUMP #2
3B						H.S. PUMP #2 BYPASS CONTACTOR
3C						
4A	1	FVNR	5	MCP	15A	EXHAUST FAN EF-9
4BL				CB	30A	LIGHTING TRANSFORMER - 'LT-A'
4BR				CB	50A	DISTRIBUTION PANEL - 'DE'
4C	5	FVNR	125	MCP	400A	BACKWASH PUMP #1
5A	1	FVNR	7 1/2	MCP	15A	EXHAUST FAN EF-11
5B						(SPACE)
5C	5	FVNR	125	MCP	400A	BACKWASH PUMP #2
6A	1	FVNR	1	MCP	3A	SLUDGE THICKENER
6B	1	FVNR	7 1/2	MCP	15A	SLUDGE TRANSFER PUMP
6CL				C.B.	15A	DECANTER VALVE
6CR						(SPACE)
6D						(SPACE)
6E						(SPACE)
6F						(SPACE)

* CONTROLLER AND BYPASS CONTACTOR SHALL BE SIZED FOR FUTURE 400HP MOTOR.
** CIRCUIT BREAKER SHALL BE PROVIDED WITH 120V A.C. SHUNT TRIP.



MCC-F1A
FRONT VIEW
N.T.S.

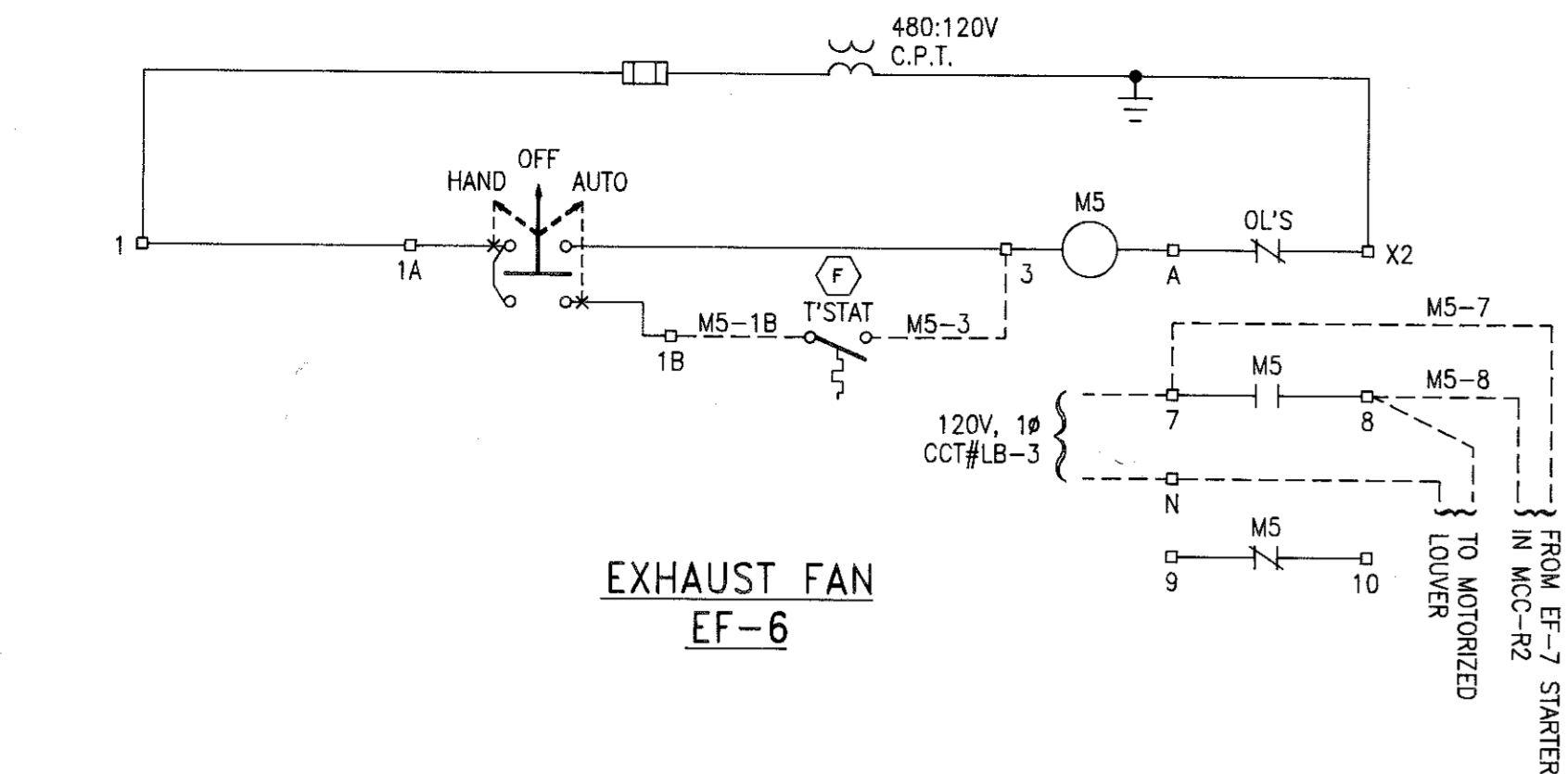
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115-B BRADFORD SQUARE FAYETTEVILLE, GEORGIA 30215
PHONE: 770-719-3333
FAX: 770-719-3377

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for
FAYETTE COUNTY WATER SYSTEM

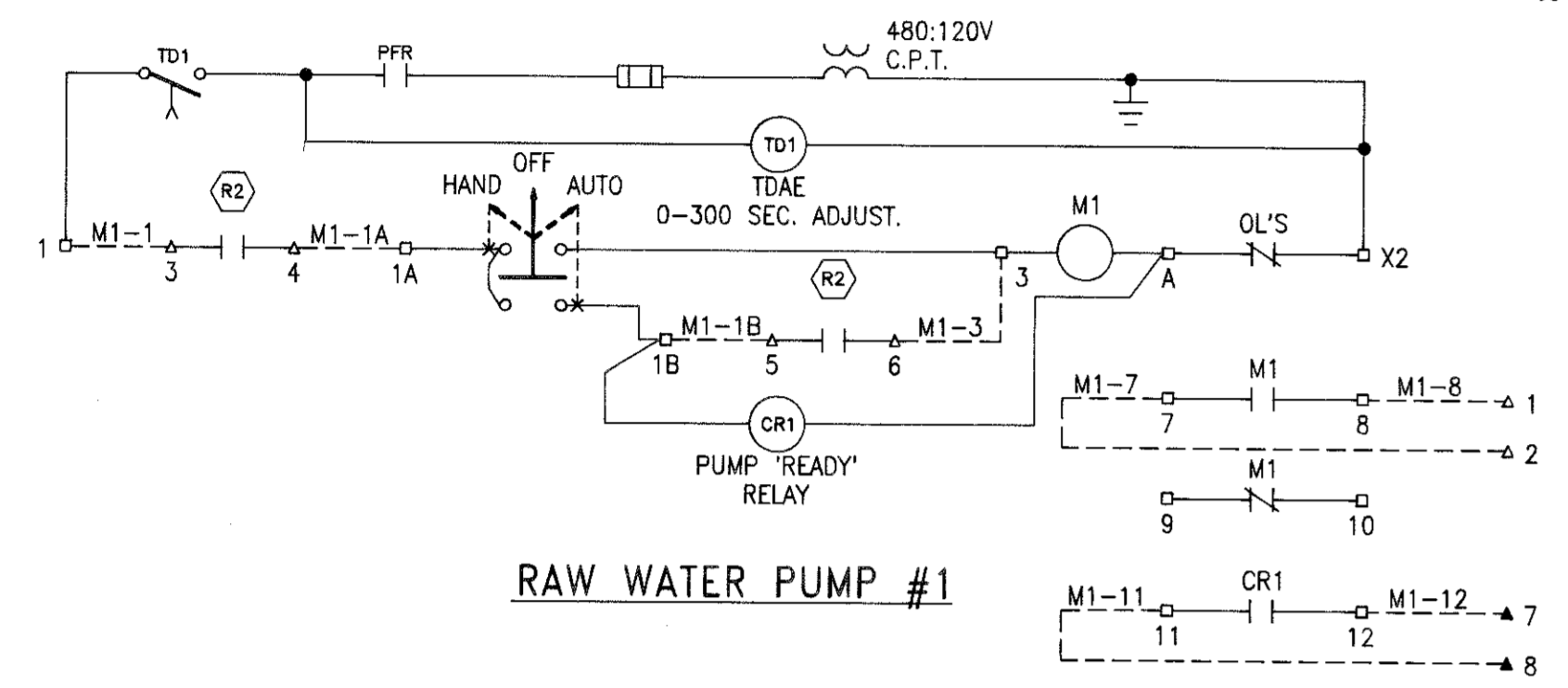
E-6 MOTOR CONTROL CENTER
SHEET 2

LAND LOT -	DESIGN	SNK	SCALE	NONE
DISTRICT - 183, 184, 201 & 202	DRAWN	PyB	DATE	10/16/98
SECTION - 4th	CHECK	SNK	FILE NO.	96158
CITY -	APPROVED	JEM	SHEET NO.	135
COUNTY - FAYETTE	STATE - GEORGIA			
REV. No.	DATE	DESCRIPTION	BY	APP'D

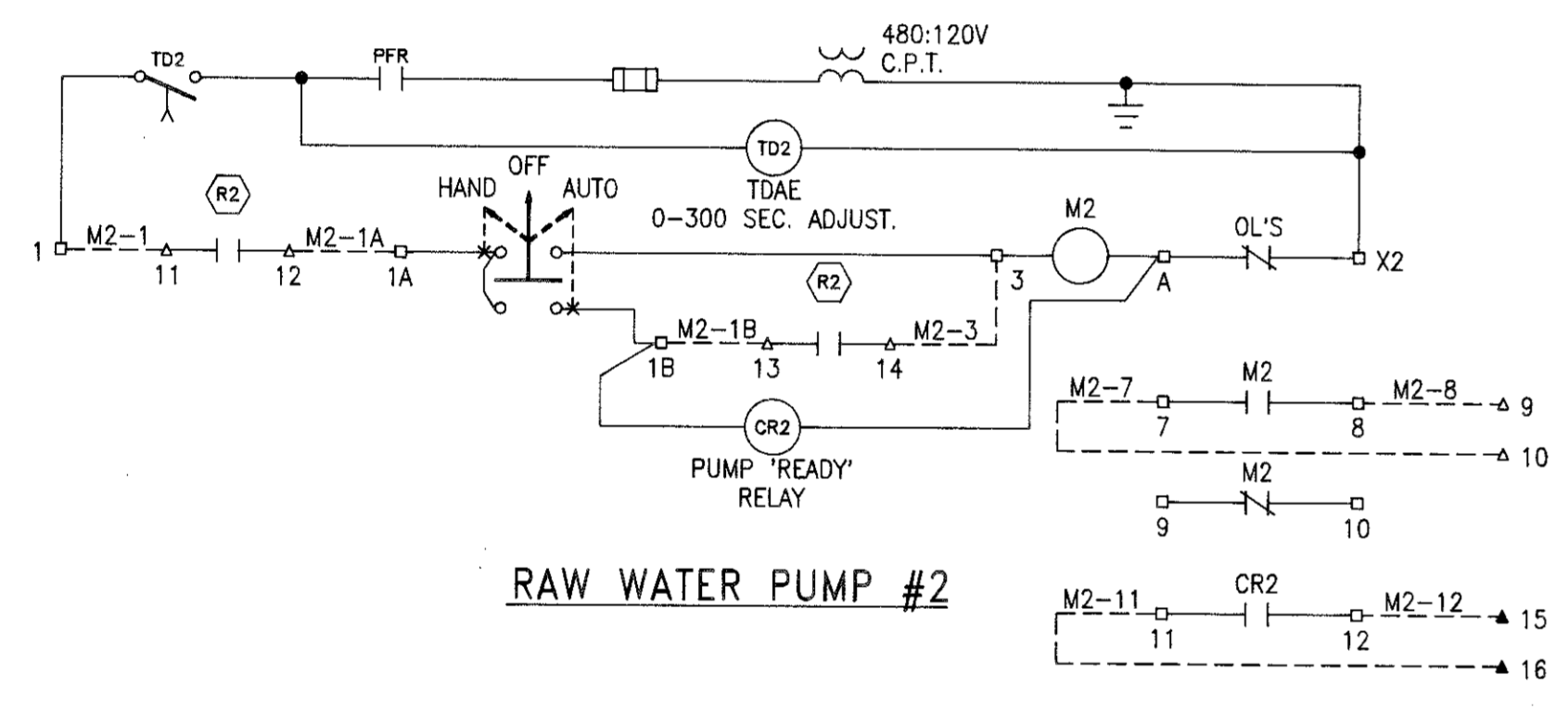




EXHAUST FAN
EF-6

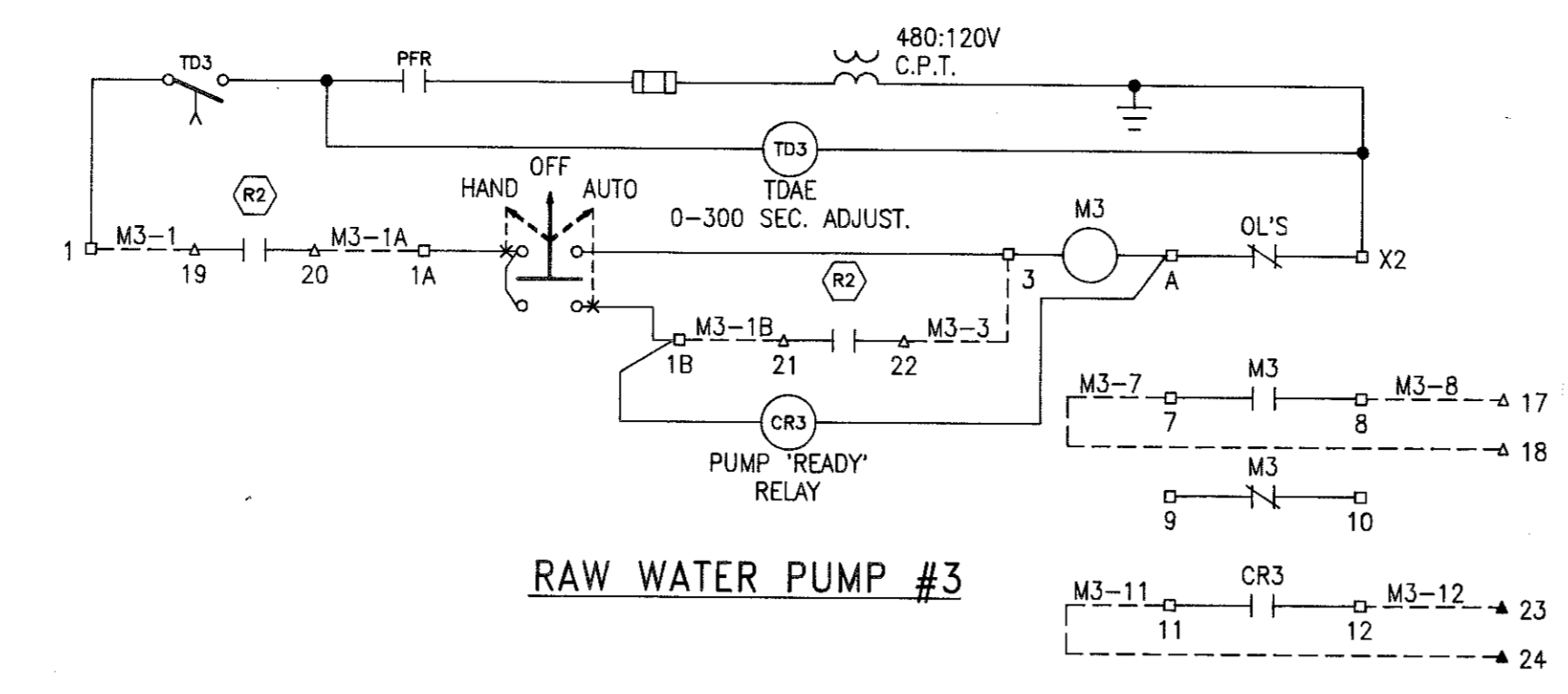


RAW WATER PUMP #1

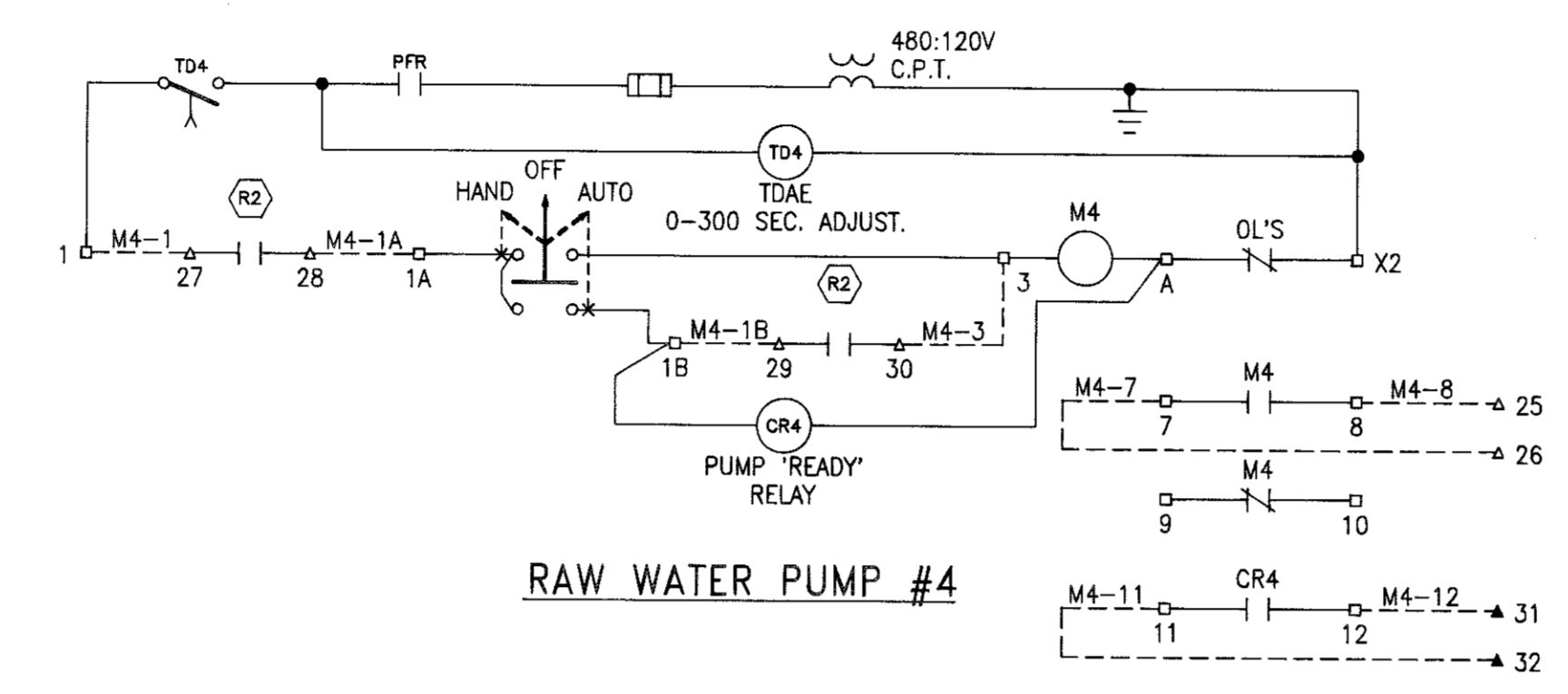


RAW WATER PUMP #2

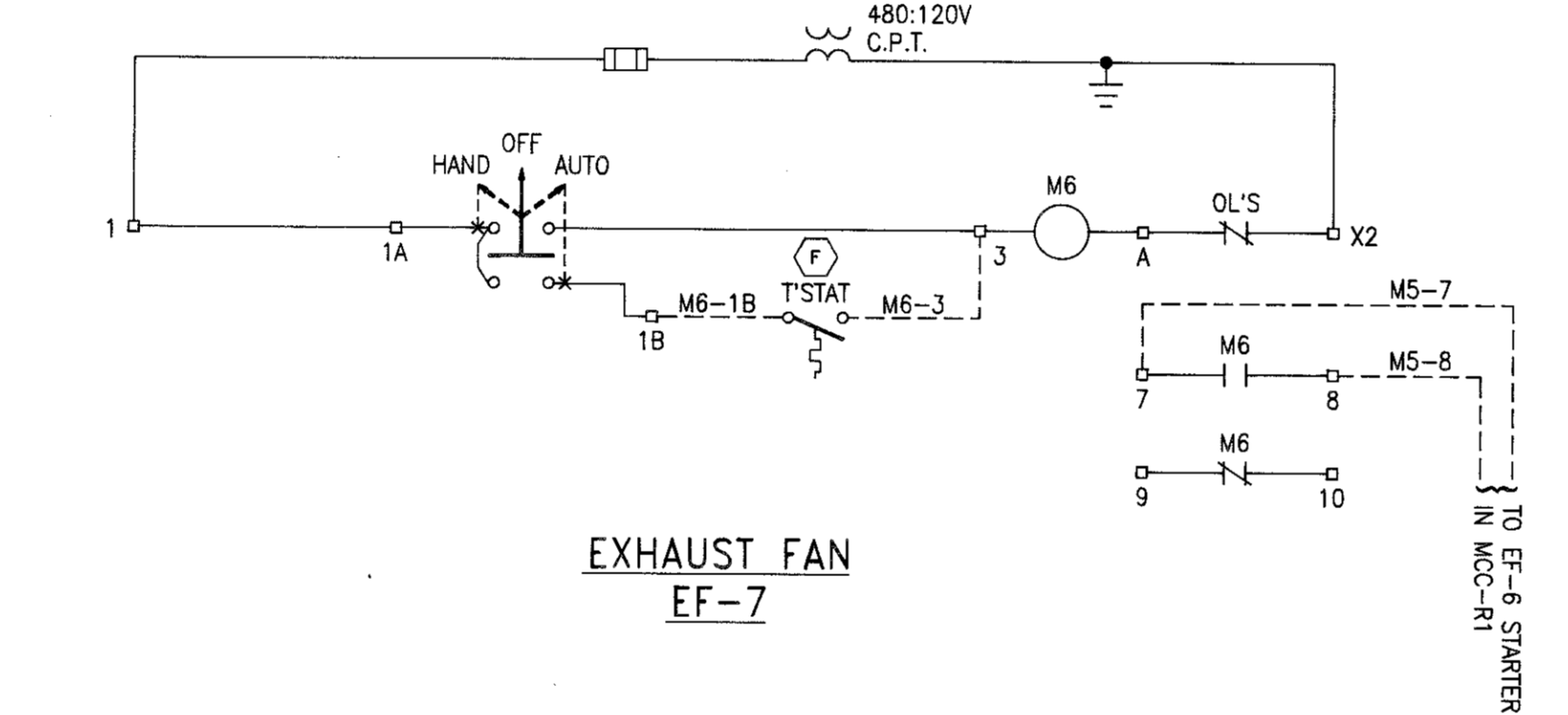
SCHEMATIC DIAGRAMS
MCC-R1



RAW WATER PUMP #3

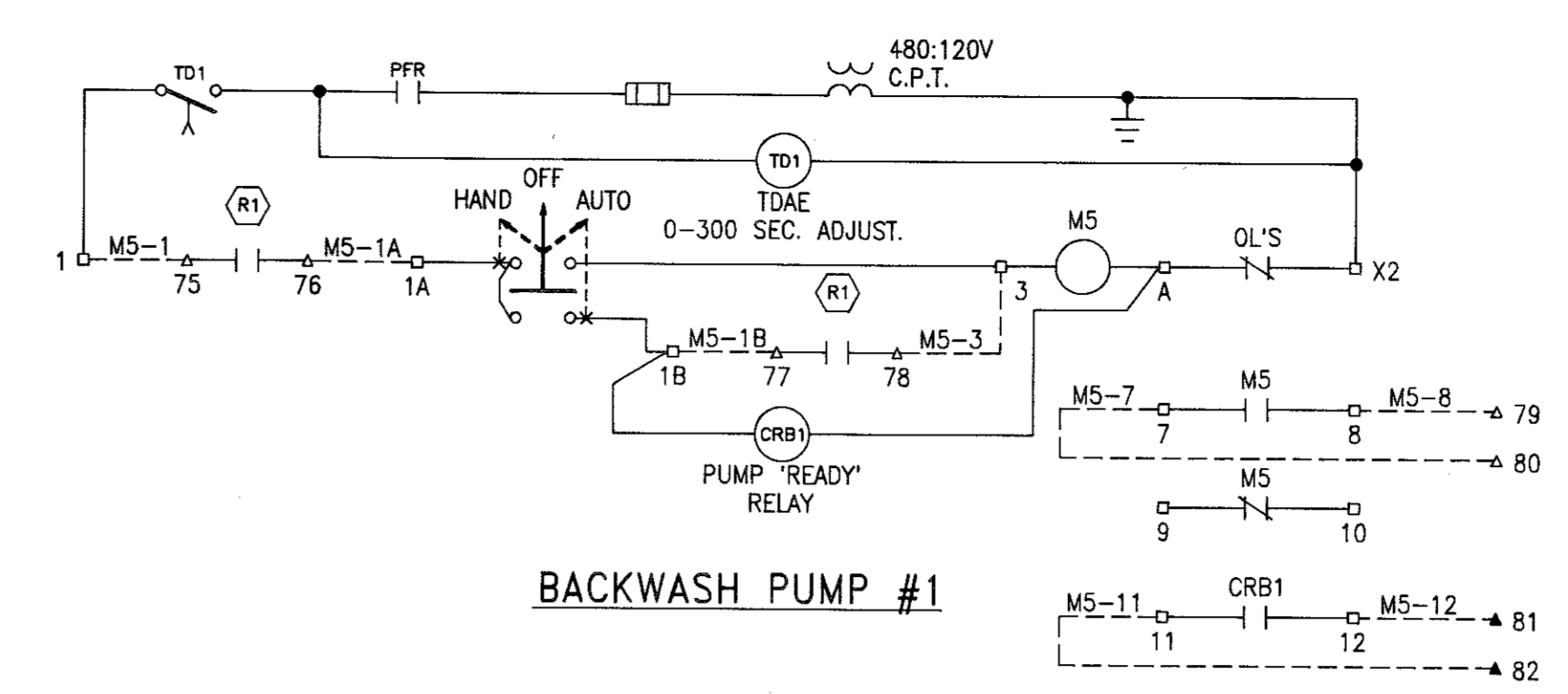


RAW WATER PUMP #4

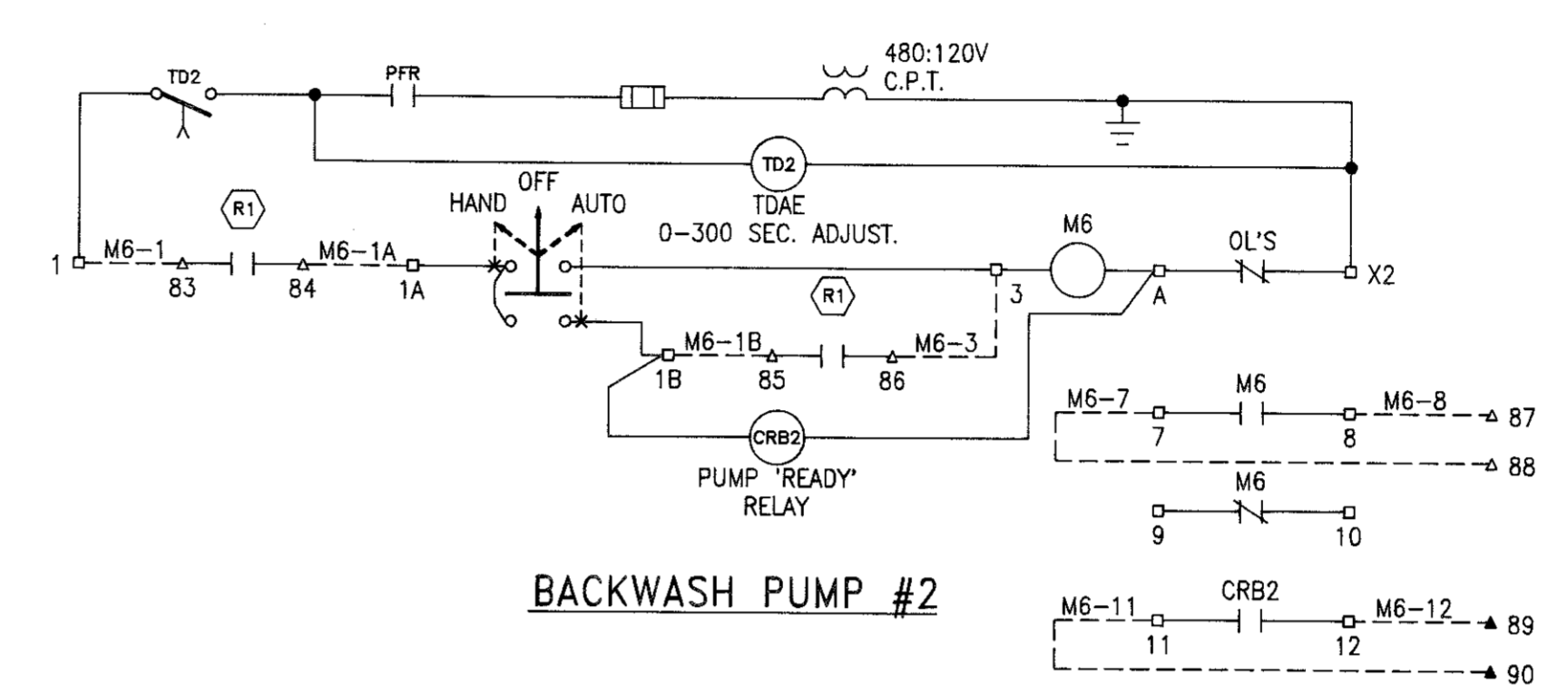


EXHAUST FAN
EF-7

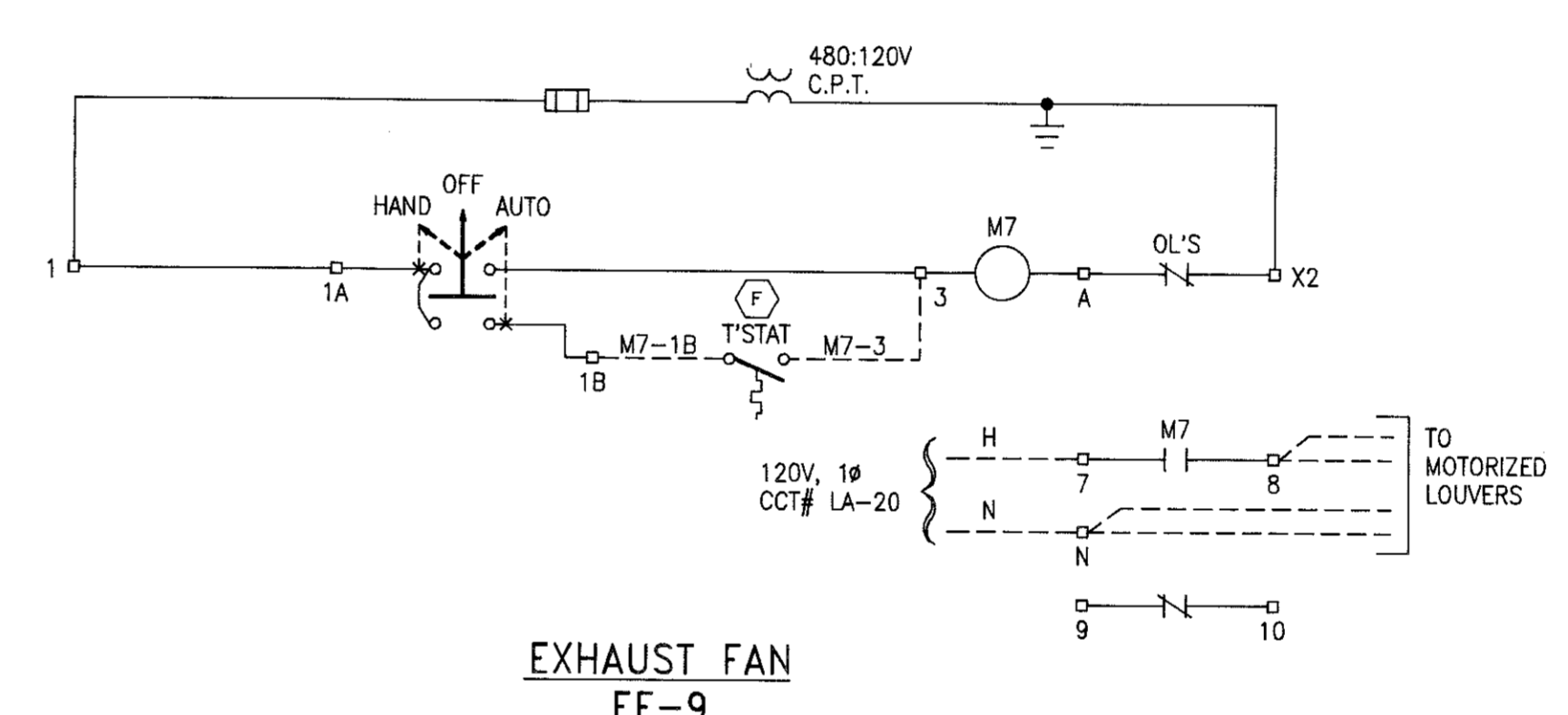
SCHEMATIC DIAGRAMS
MCC-R2



BACKWASH PUMP #1



BACKWASH PUMP #2



EXHAUST FAN
EF-9

SCHEMATIC DIAGRAMS
MCC-F1A

LEGEND

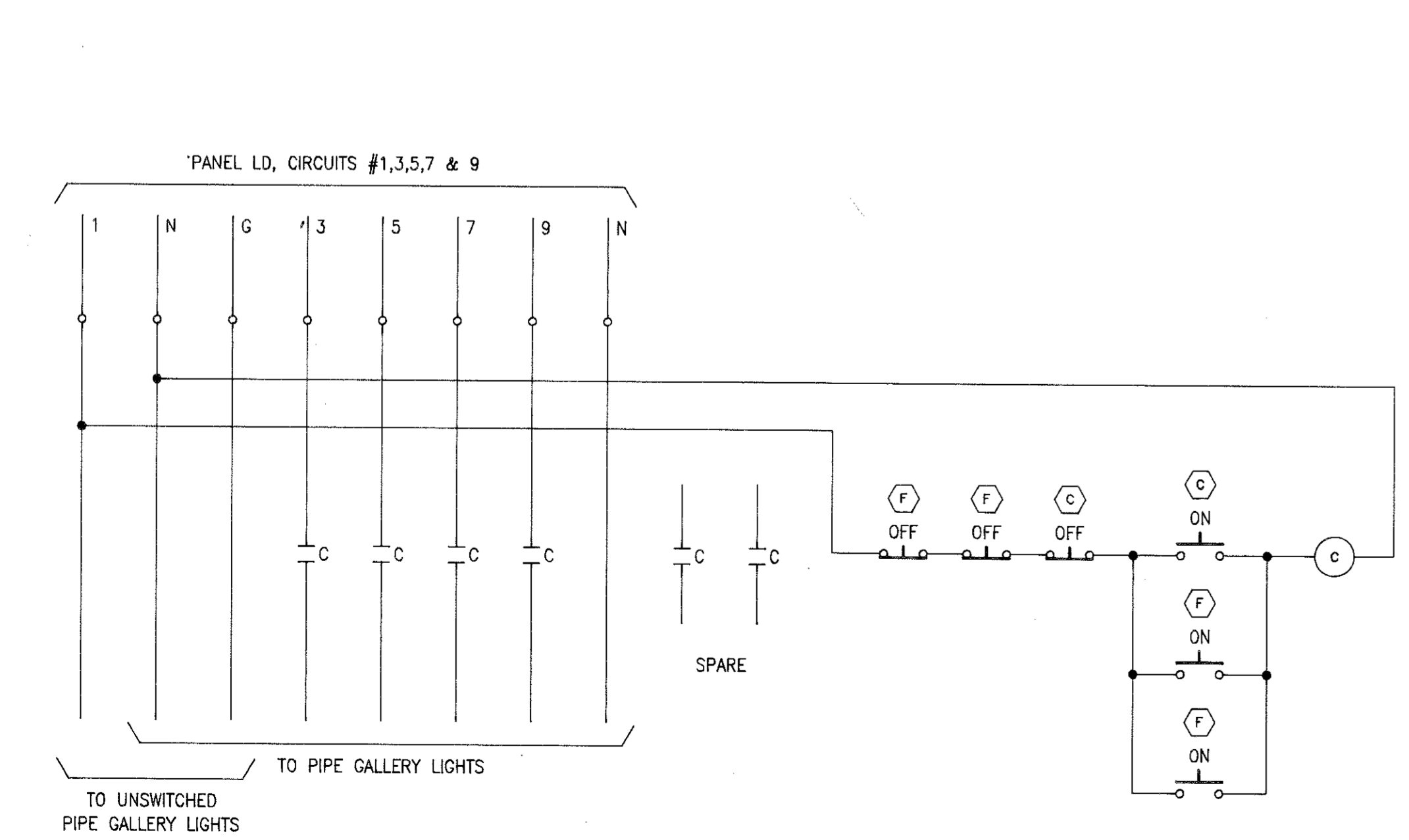
- 3 TERMINAL IN MCC
- WIRE NUMBER
- M4-3 WIRE NUMBER DESIGNATION
- △ TERMINAL IN REMOTE I/O UNIT
- DENOTES FIELD WIRING
- PFR CONTACT OF PHASE FAILURE RELAY

LOCATION LEGEND

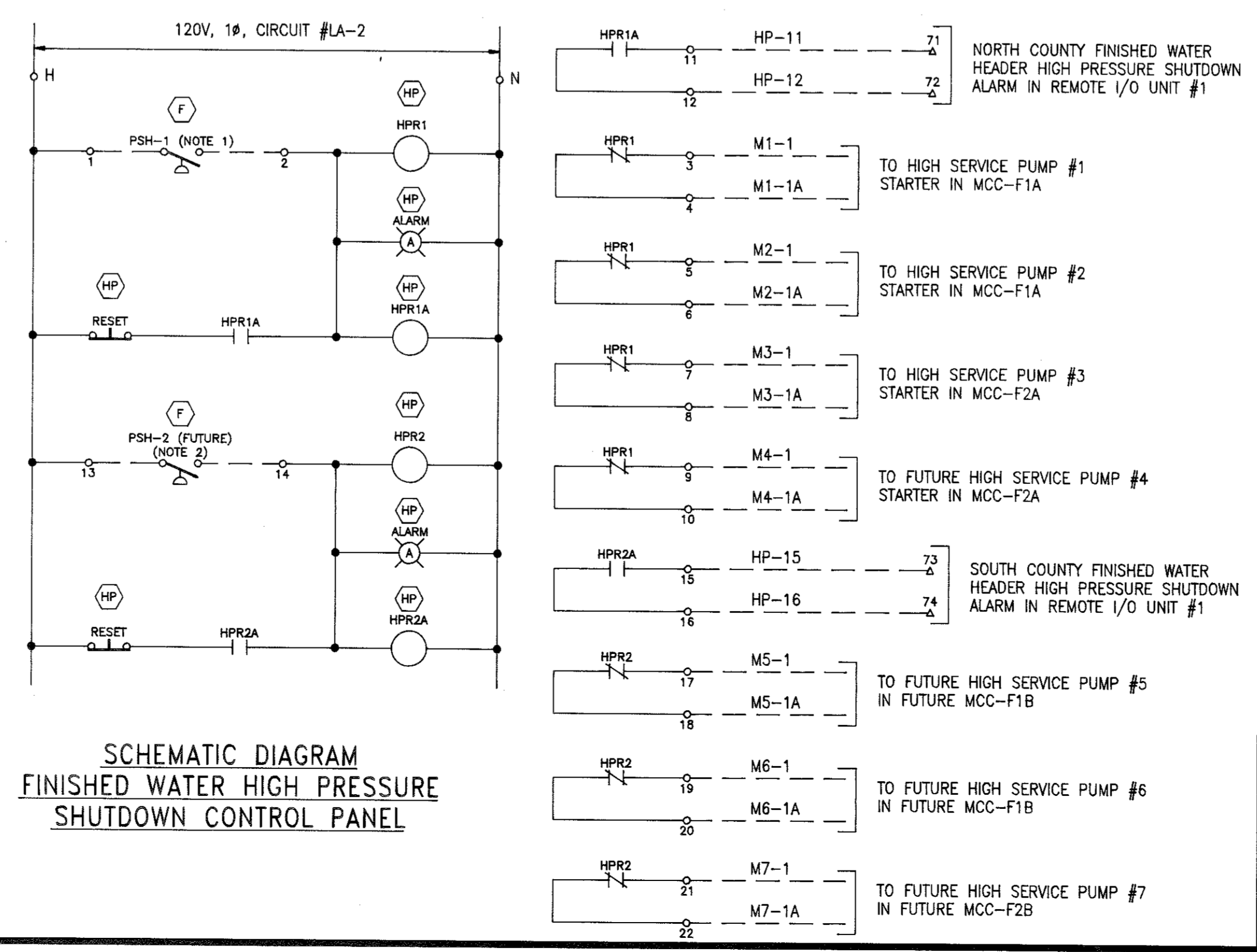
- (F) LOCATED IN FIELD
- (R1) LOCATED IN REMOTE I/O UNIT
R1 DENOTES REMOTE I/O UNIT #1
R2 DENOTES REMOTE I/O UNIT #2, ETC.
- ALL OTHER DEVICES LOCATED IN MCC
- (C) LOCATED IN LIGHTING CONTACTOR
- (HP) LOCATED IN FINISHED WATER HIGH PRESSURE SHUTDOWN CONTROL PANEL

NOTES:

1. PRESSURE SWITCH PSH-1 ON NORTH COUNTY FINISHED WATER HEADER. CLOSES ON HIGH PRESSURE.
2. PRESSURE SWITCH PSH-2 ON FUTURE SOUTH COUNTY FINISHED WATER HEADER. CLOSES ON HIGH PRESSURE.



SCHEMATIC DIAGRAM
PIPE GALLERY LIGHTING CONTACTOR



SCHEMATIC DIAGRAM
FINISHED WATER HIGH PRESSURE
SHUTDOWN CONTROL PANEL

- HP-11 HP-12 NORTH COUNTY FINISHED WATER HEADER HIGH PRESSURE SHUTDOWN ALARM IN REMOTE I/O UNIT #1
- M1-1 M1-1A TO HIGH SERVICE PUMP #1 STARTER IN MCC-F1A
- M2-1 M2-1A TO HIGH SERVICE PUMP #2 STARTER IN MCC-F1A
- M3-1 M3-1A TO HIGH SERVICE PUMP #3 STARTER IN MCC-F2A
- M4-1 M4-1A TO FUTURE HIGH SERVICE PUMP #4 STARTER IN MCC-F2A
- HP-15 HP-16 SOUTH COUNTY FINISHED WATER HEADER HIGH PRESSURE SHUTDOWN ALARM IN REMOTE I/O UNIT #1
- M5-1 M5-1A TO FUTURE HIGH SERVICE PUMP #5 IN FUTURE MCC-F1B
- M6-1 M6-1A TO FUTURE HIGH SERVICE PUMP #6 IN FUTURE MCC-F1B
- M7-1 M7-1A TO FUTURE HIGH SERVICE PUMP #7 IN FUTURE MCC-F2B

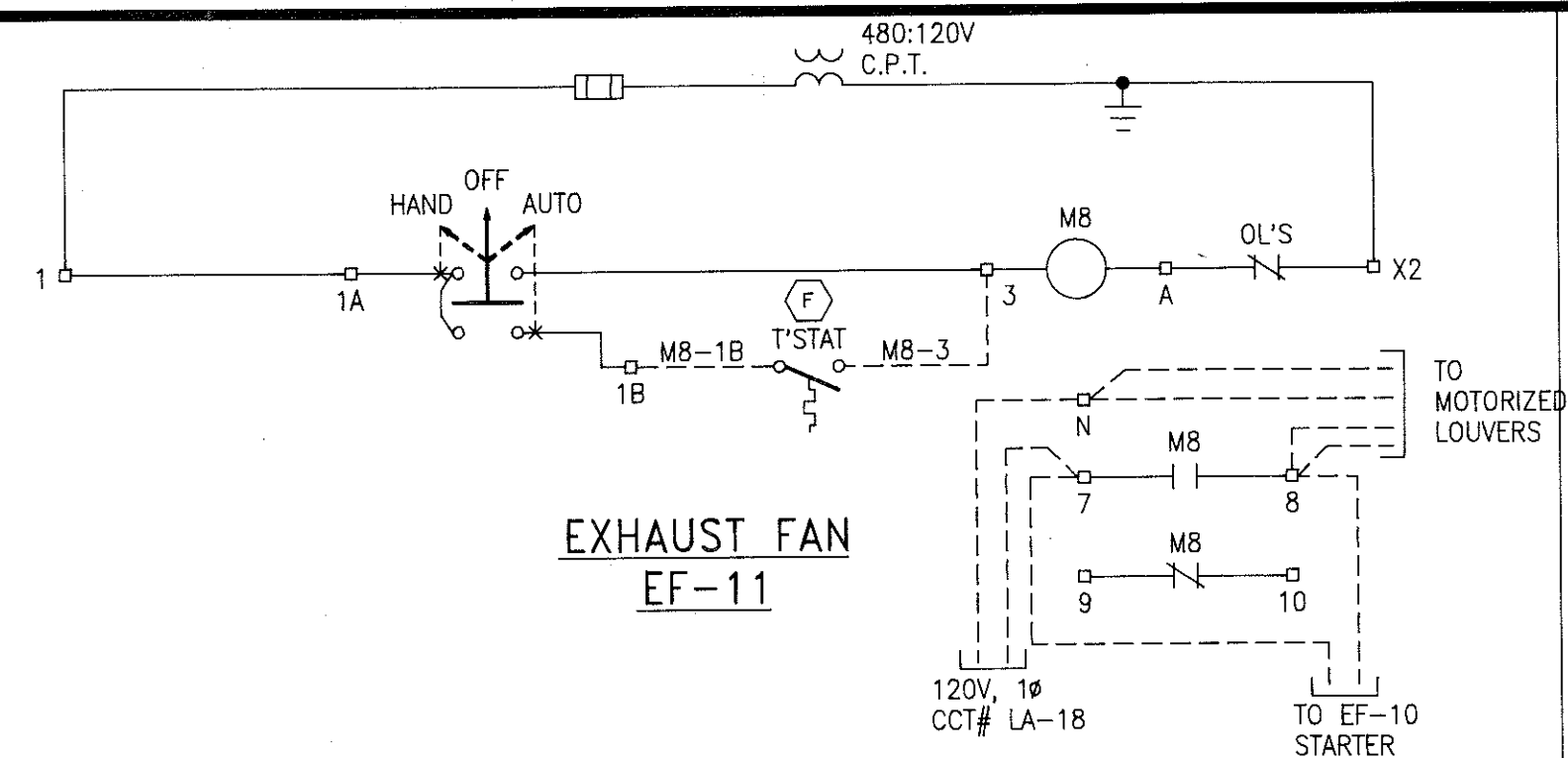
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115-B BRADFORD SQUARE FAYETTEVILLE, GEORGIA 30215
PHONE: 770-719-3333
FAX: 770-719-3377

SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM

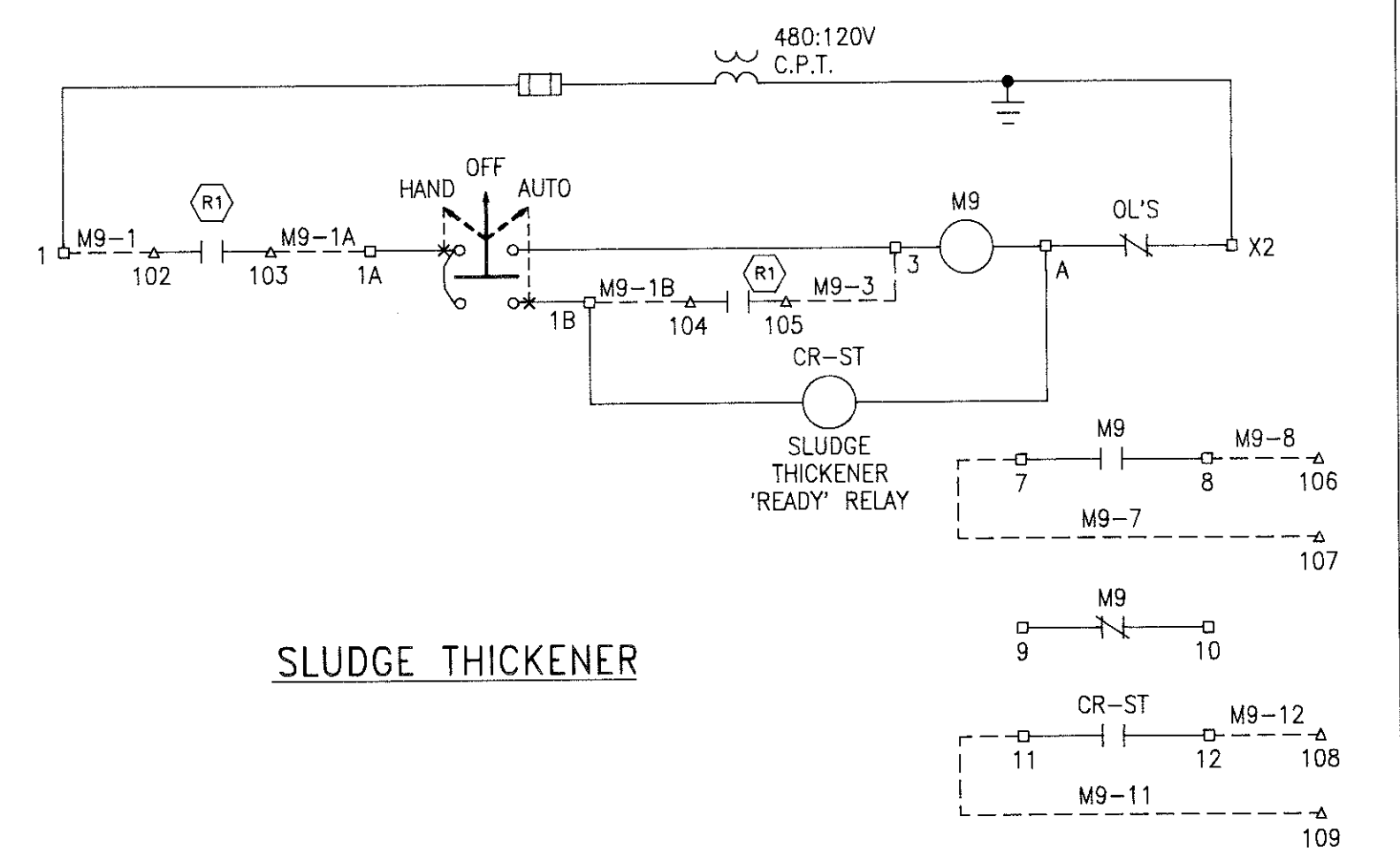
E-7 SCHEMATIC DIAGRAMS
SHEET 1

REV. No.	DATE	DESCRIPTION	BY	APP'D	LAND LOT	DESIGN	SCALE
						SNK	NONE
					DISTRICT - 183, 184, 201 & 202	DRAWN	DATE
					SECTION - 4th	PYB	10/16/98
					CITY -	CHECK	FILE NO.
					COUNTY - FAYETTE	SNK	96158
					STATE - GEORGIA	APPROVED	SHEET NO.
						JEM	136

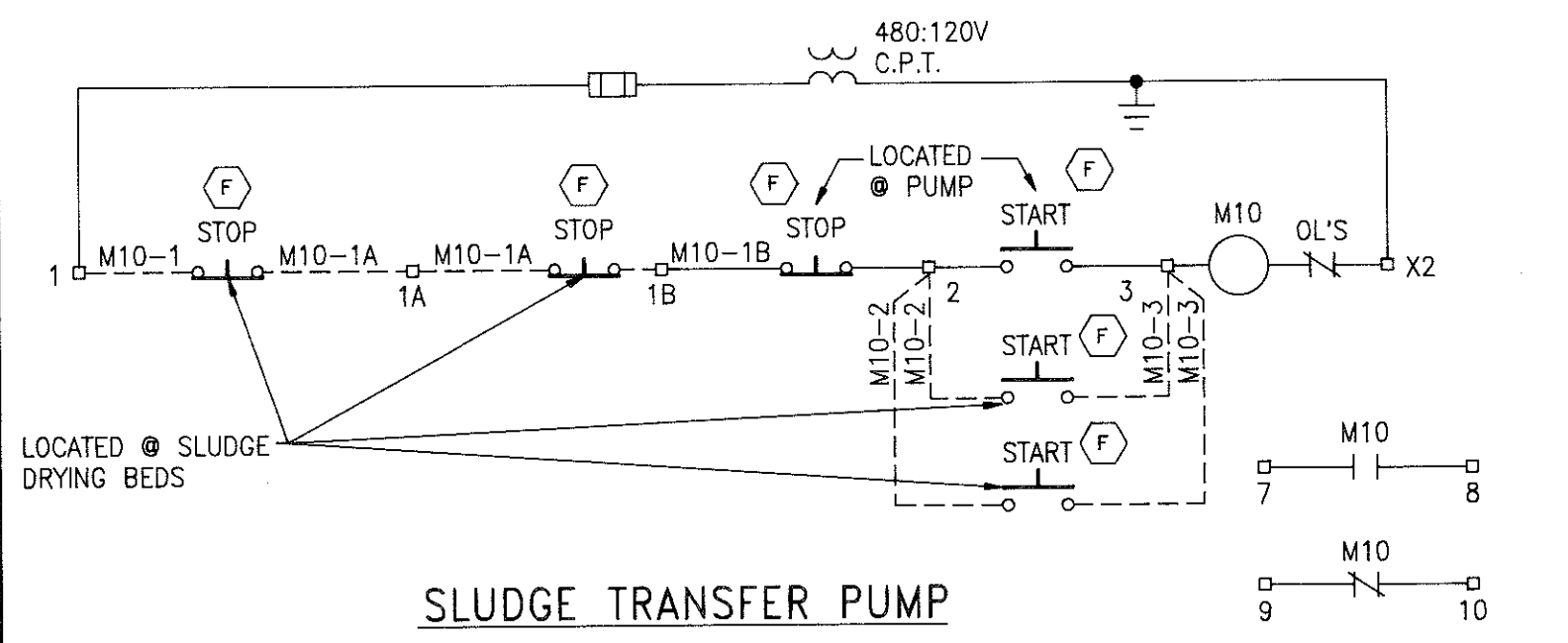




EXHAUST FAN
EF-11

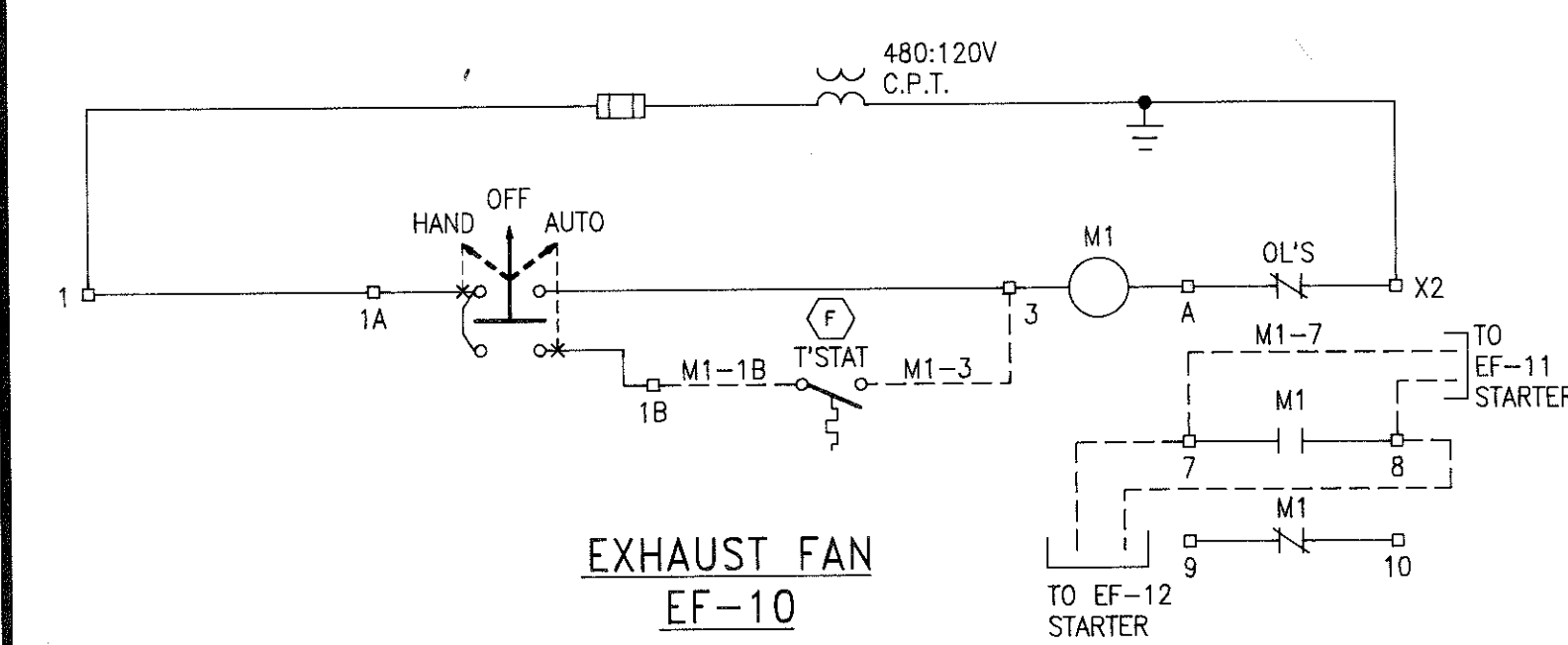


SLUDGE THICKENER

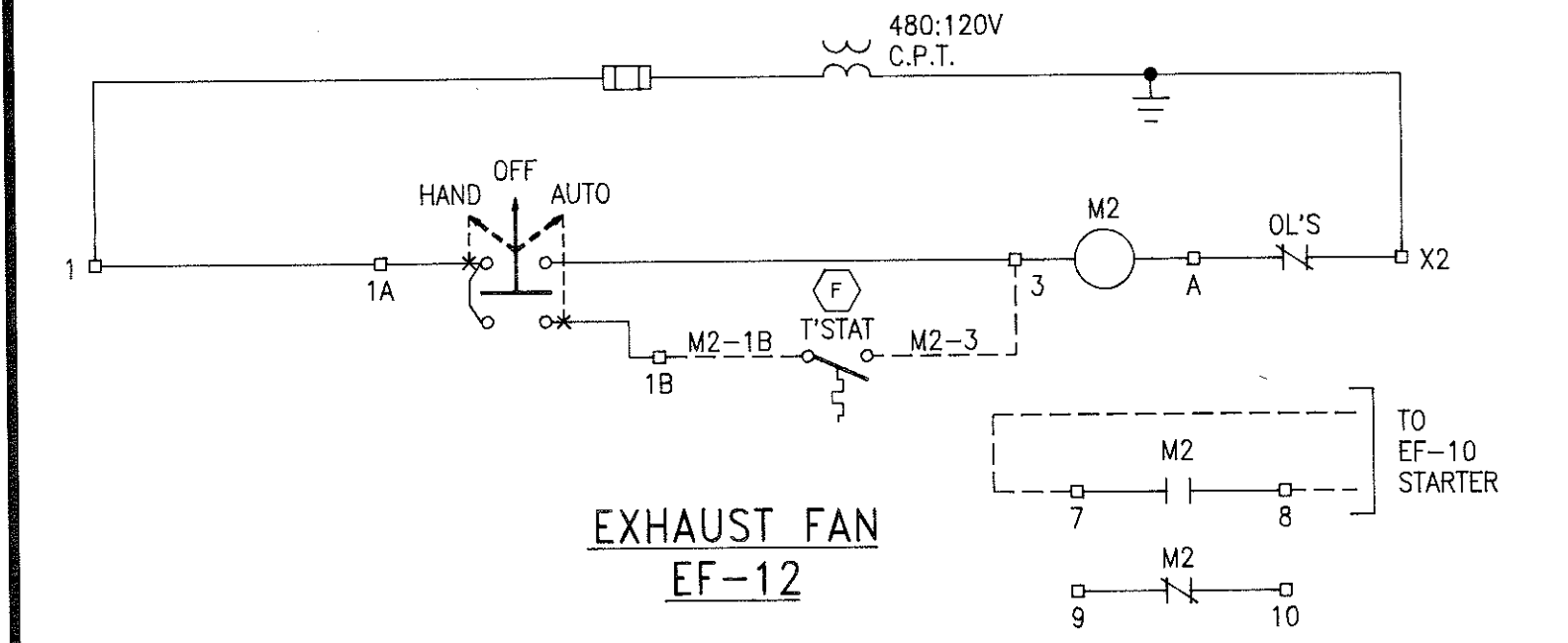


SLUDGE TRANSFER PUMP

SCHEMATIC DIAGRAMS
MCC-F1A

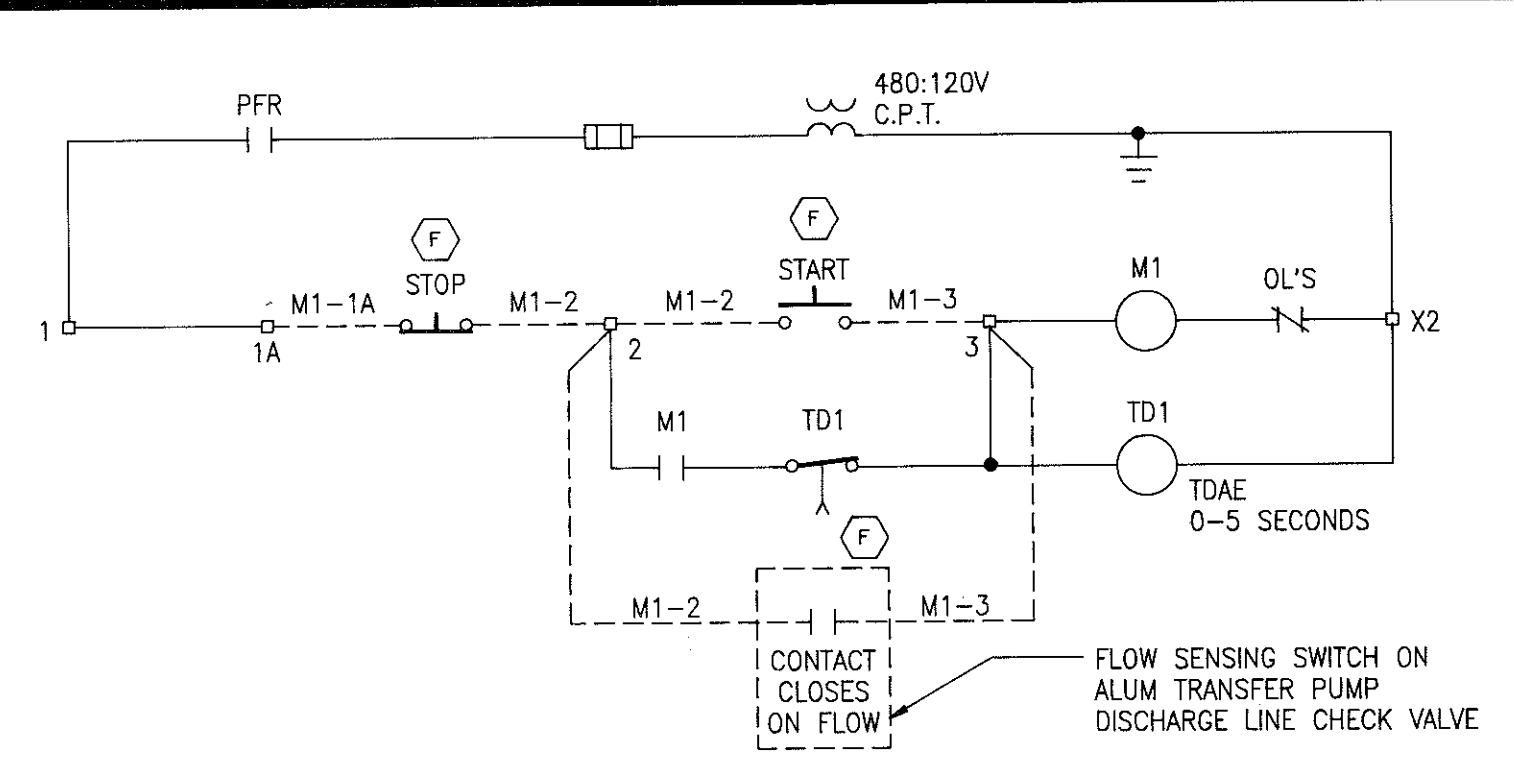


EXHAUST FAN
EF-10

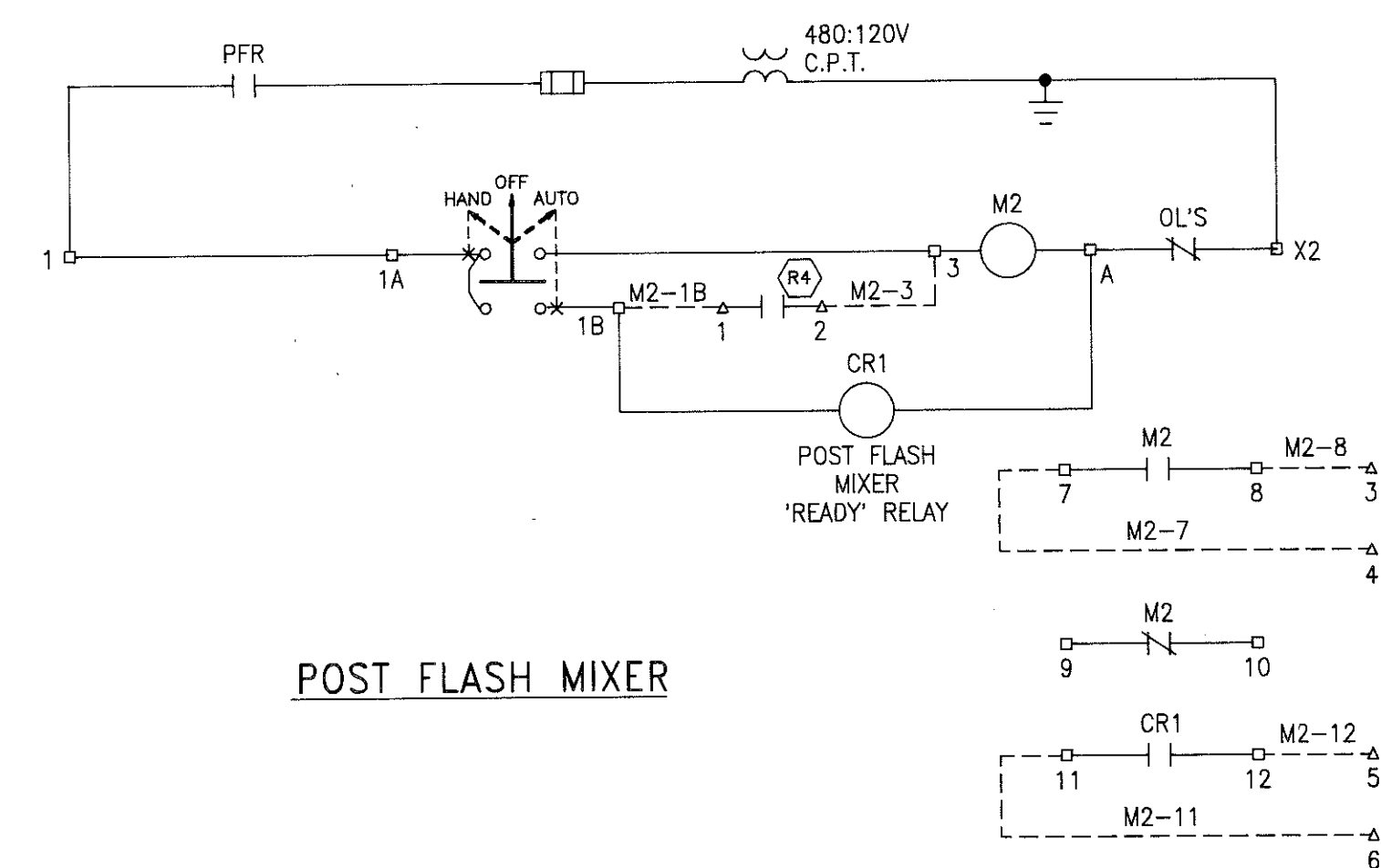


EXHAUST FAN
EF-12

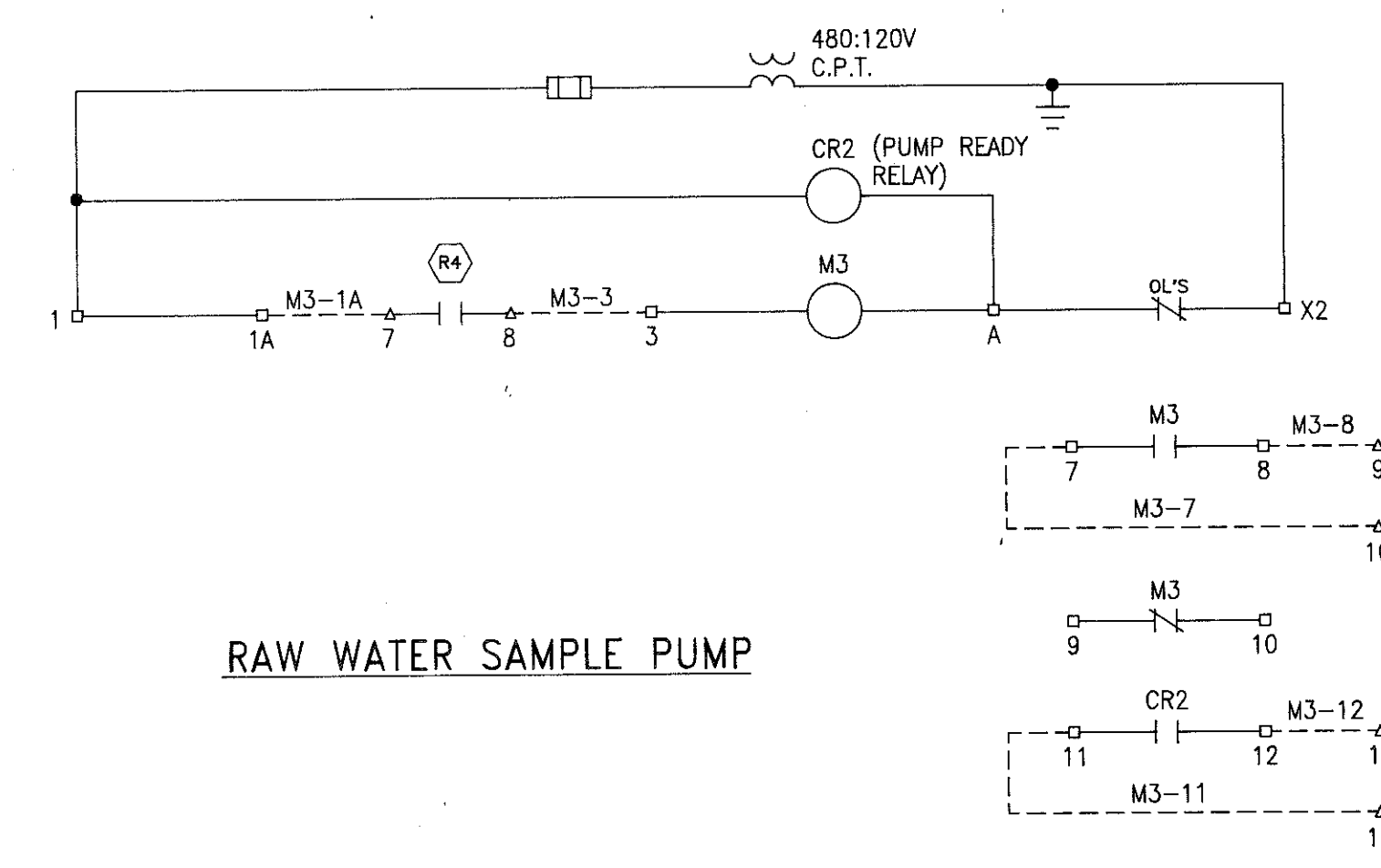
SCHEMATIC DIAGRAMS
MCC-F2A



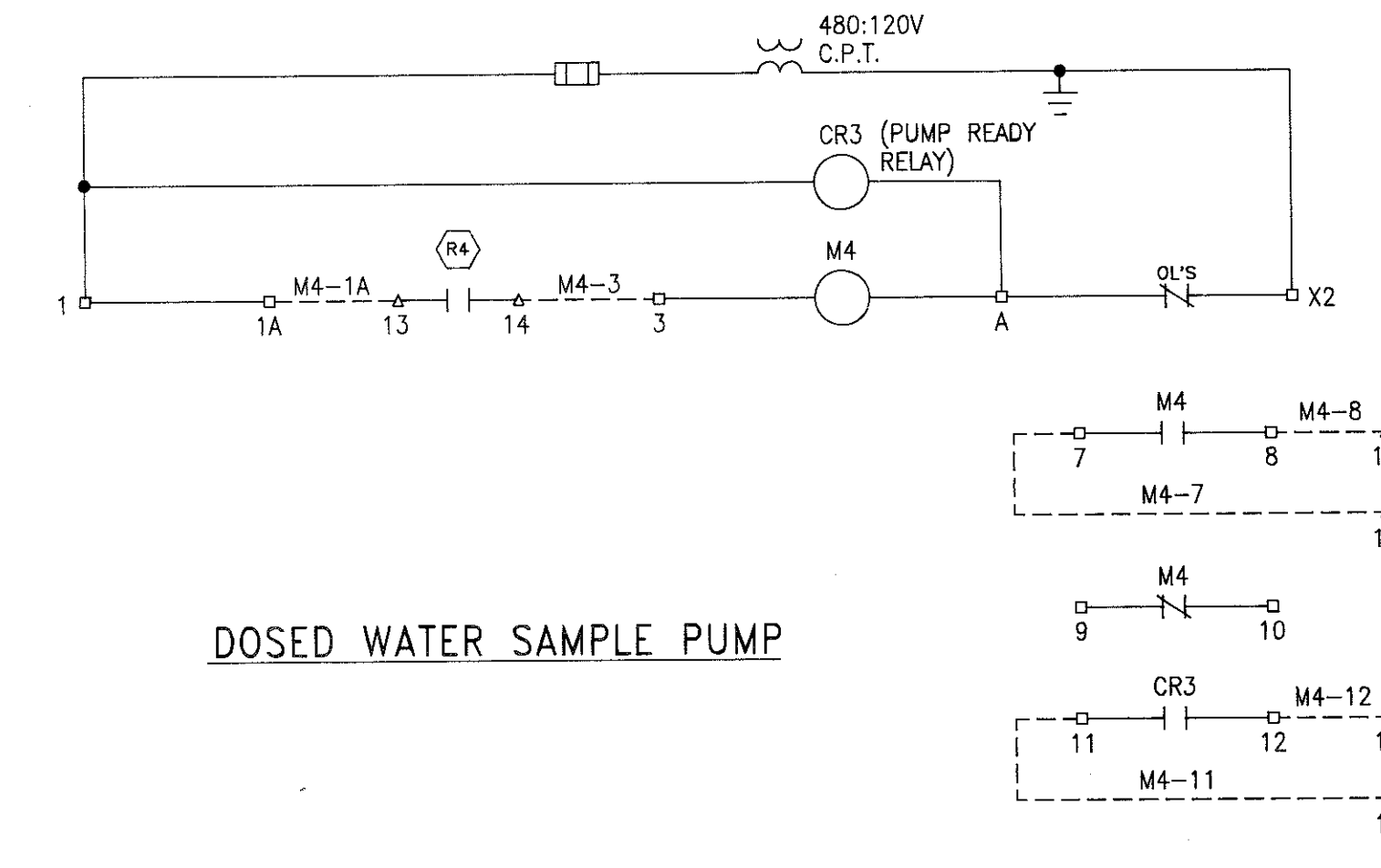
ALUM TRANSFER PUMP



POST FLASH MIXER

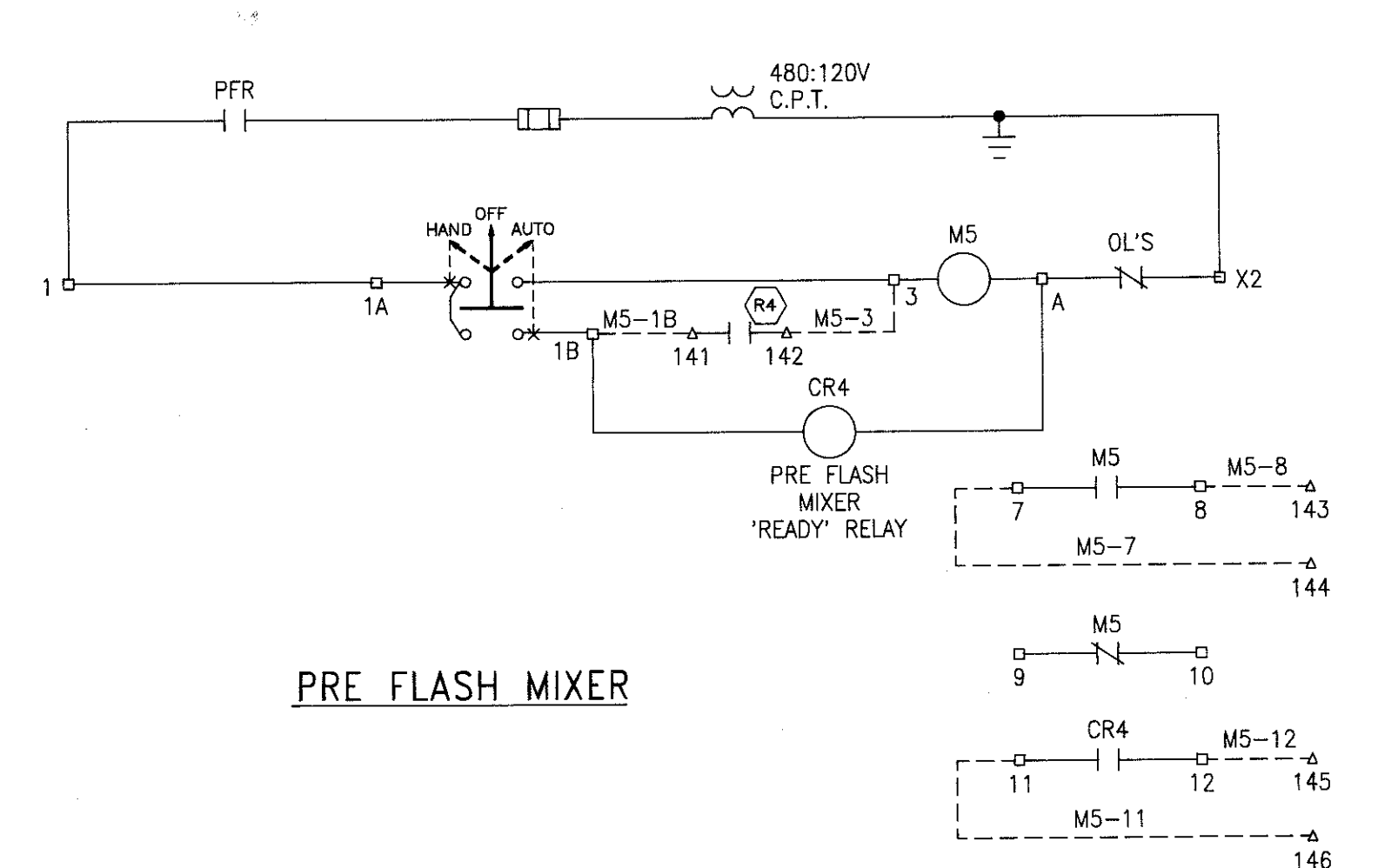


RAW WATER SAMPLE PUMP

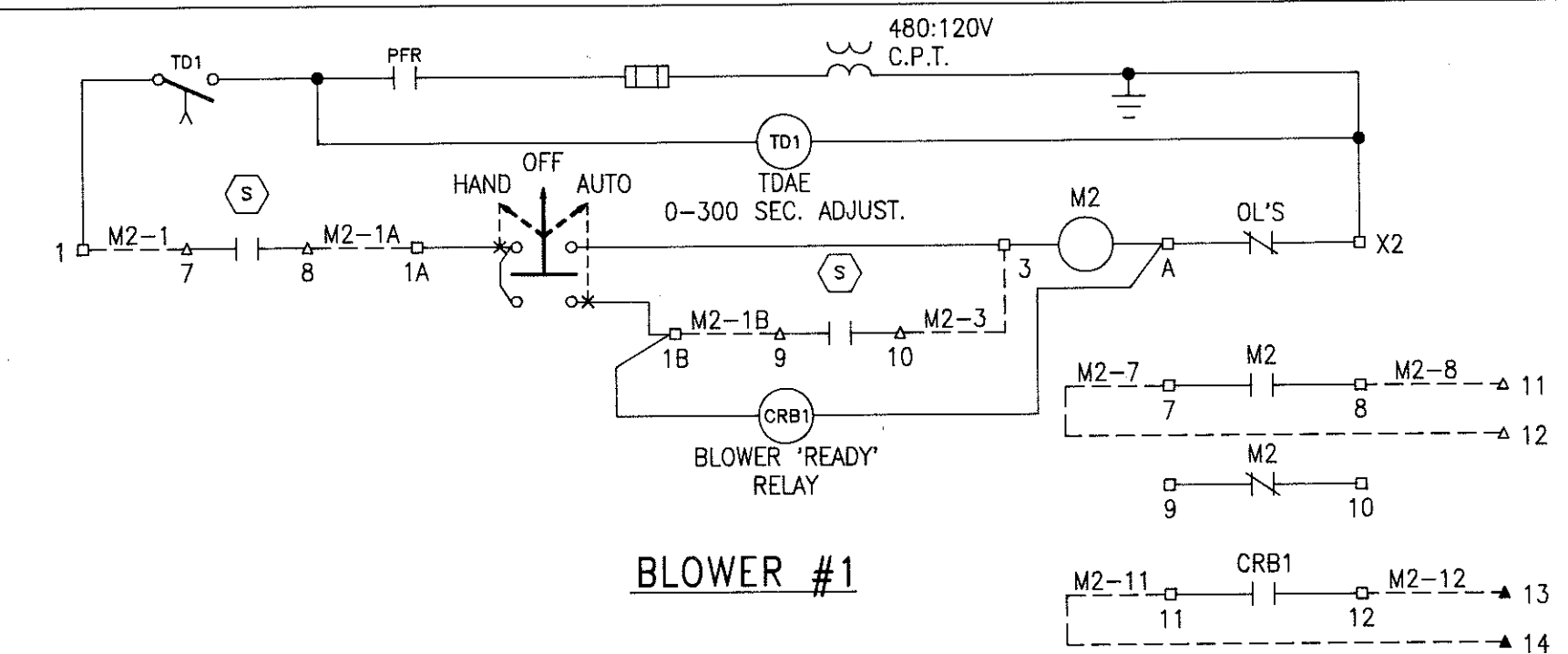


DOSED WATER SAMPLE PUMP

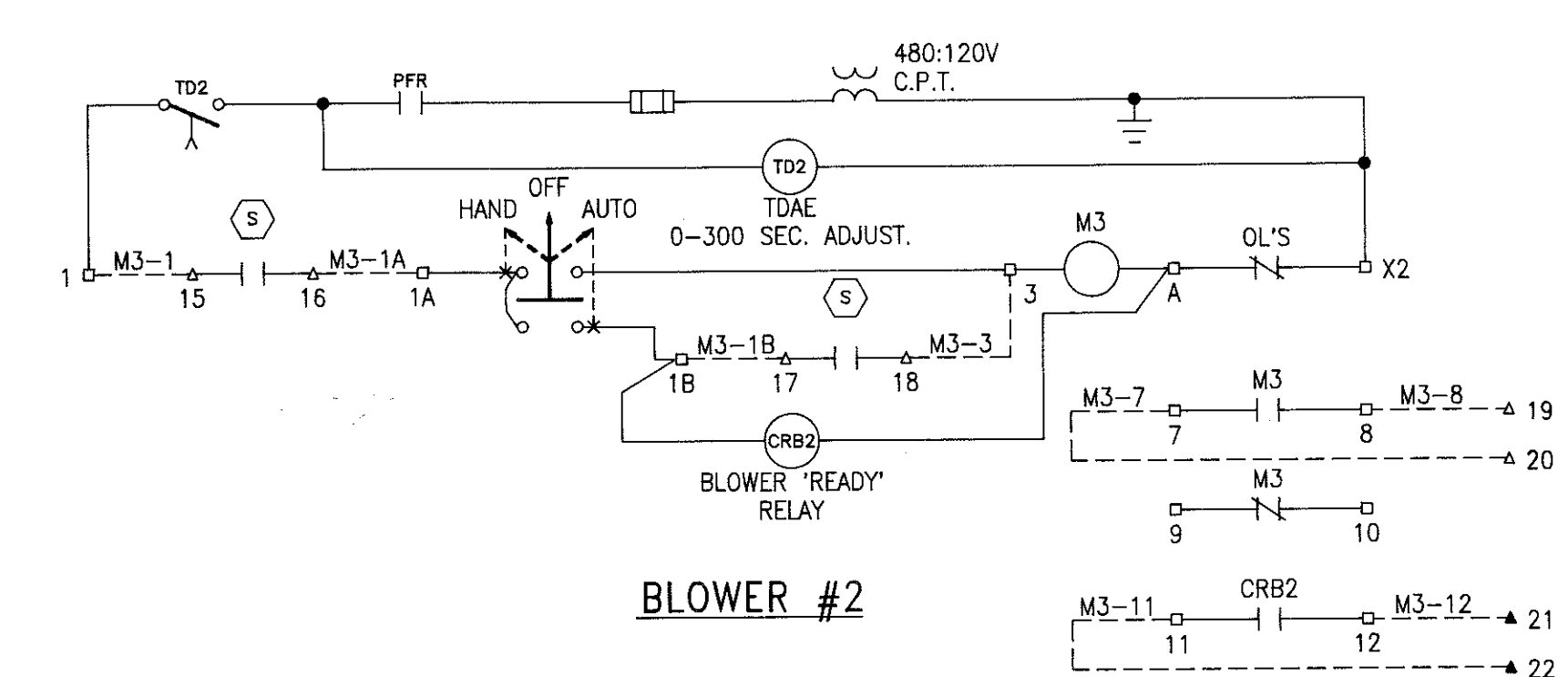
SCHEMATIC DIAGRAMS
MCC-C



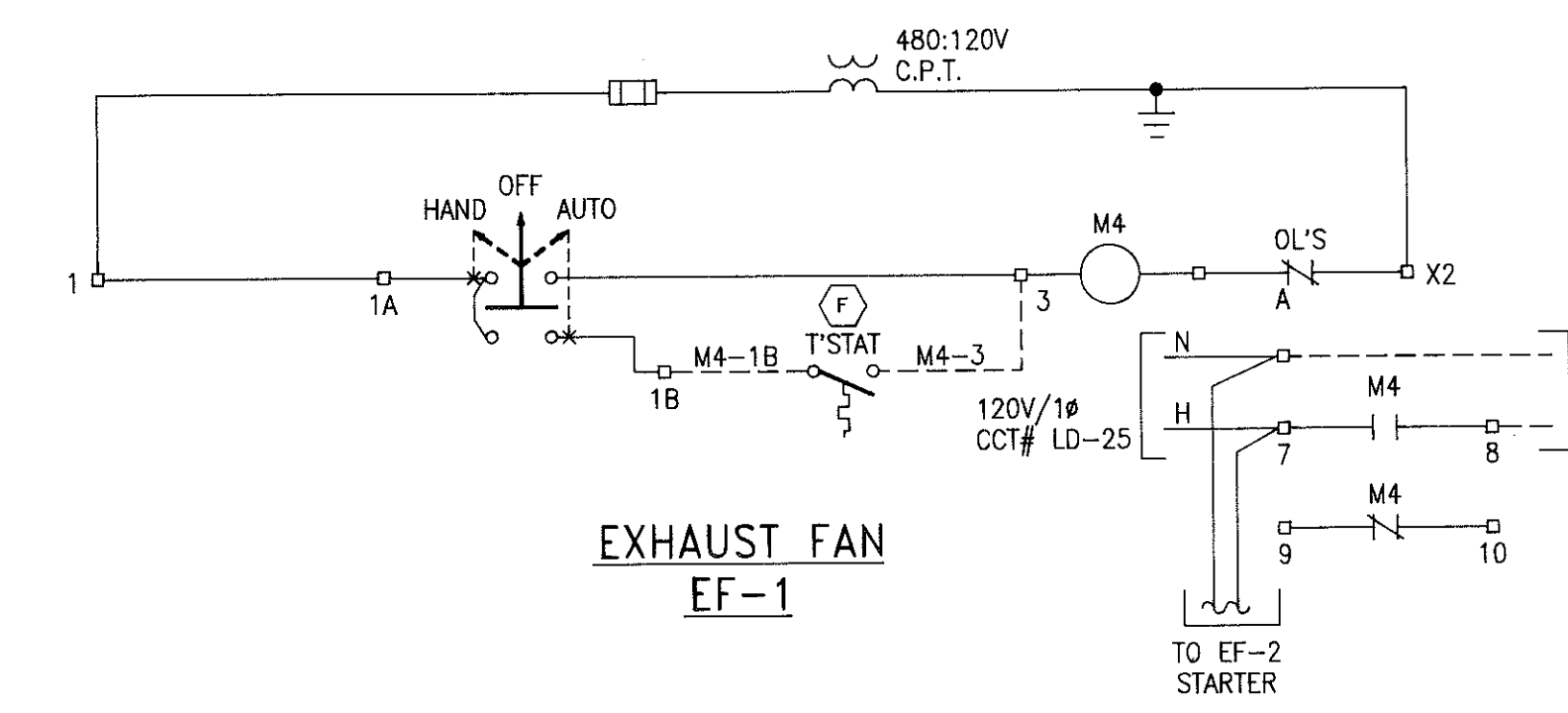
PRE FLASH MIXER



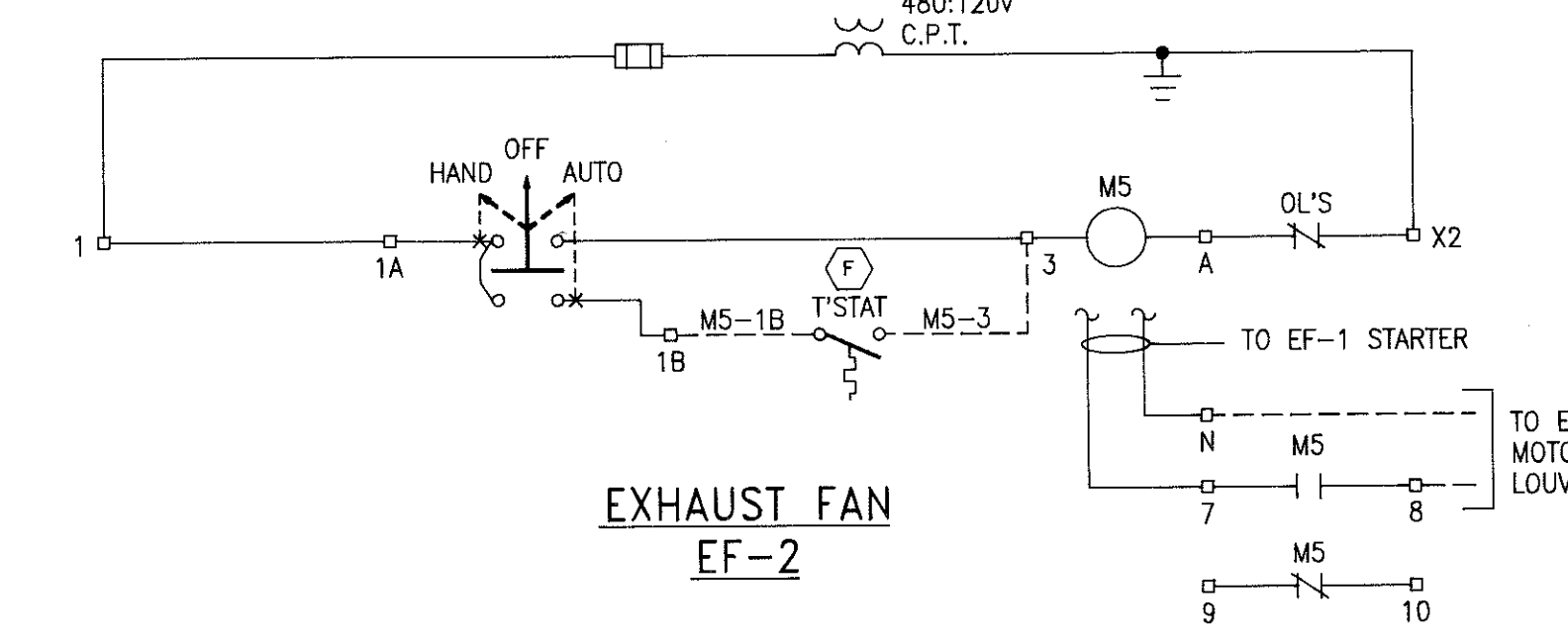
BLOWER #1



BLOWER #2



EXHAUST FAN
EF-1



EXHAUST FAN
EF-2

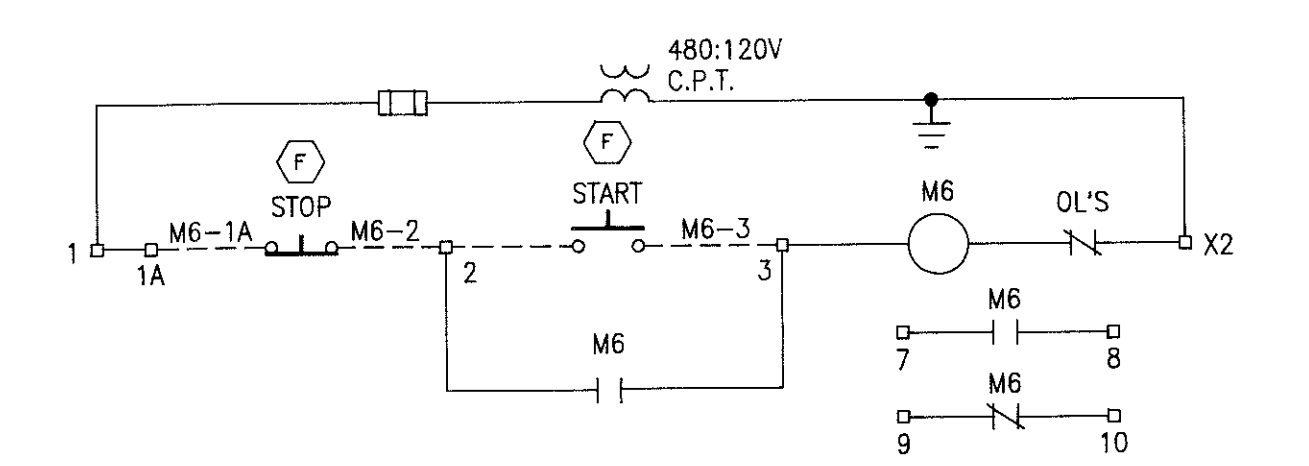
SCHEMATIC DIAGRAMS
MCC-OP1

LEGEND

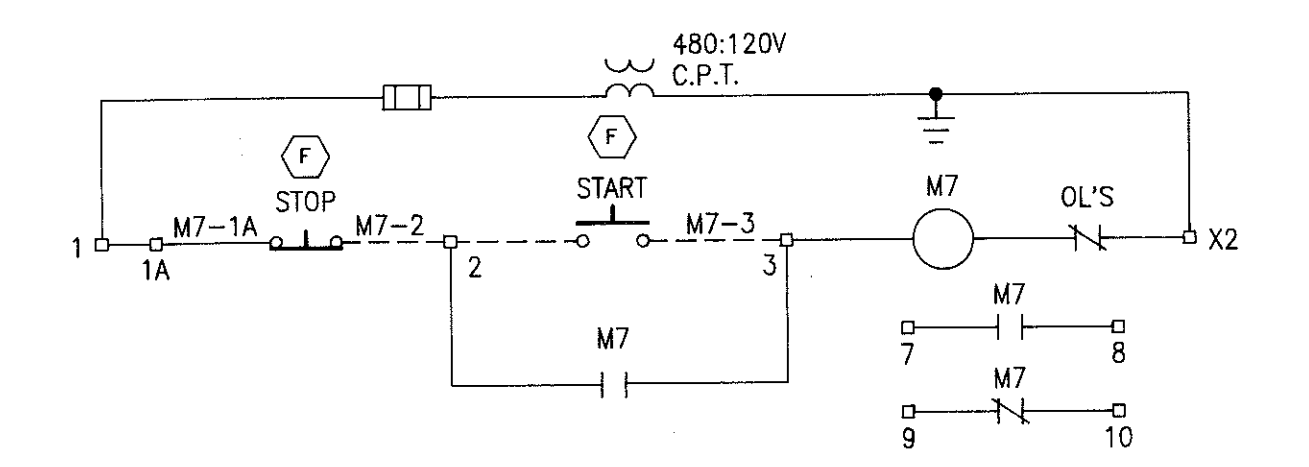
- TERMINAL IN MCC
- WIRE NUMBER
- WIRE NUMBER DESIGNATION
- △ TERMINAL IN REMOTE I/O UNIT
- - - DENOTES FIELD WIRING
- PFR CONTACT OF PHASE FAILURE RELAY

LOCATION LEGEND

- (F) LOCATED IN FIELD
- (R1) LOCATED IN REMOTE I/O UNIT
- R1 DENOTES REMOTE I/O UNIT #1
- R2 DENOTES REMOTE I/O UNIT #2, ETC.
- ALL OTHER DEVICES LOCATED IN MCC



SETTLED WATER SAMPLE PUMP



FILTERED WATER SAMPLE PUMP

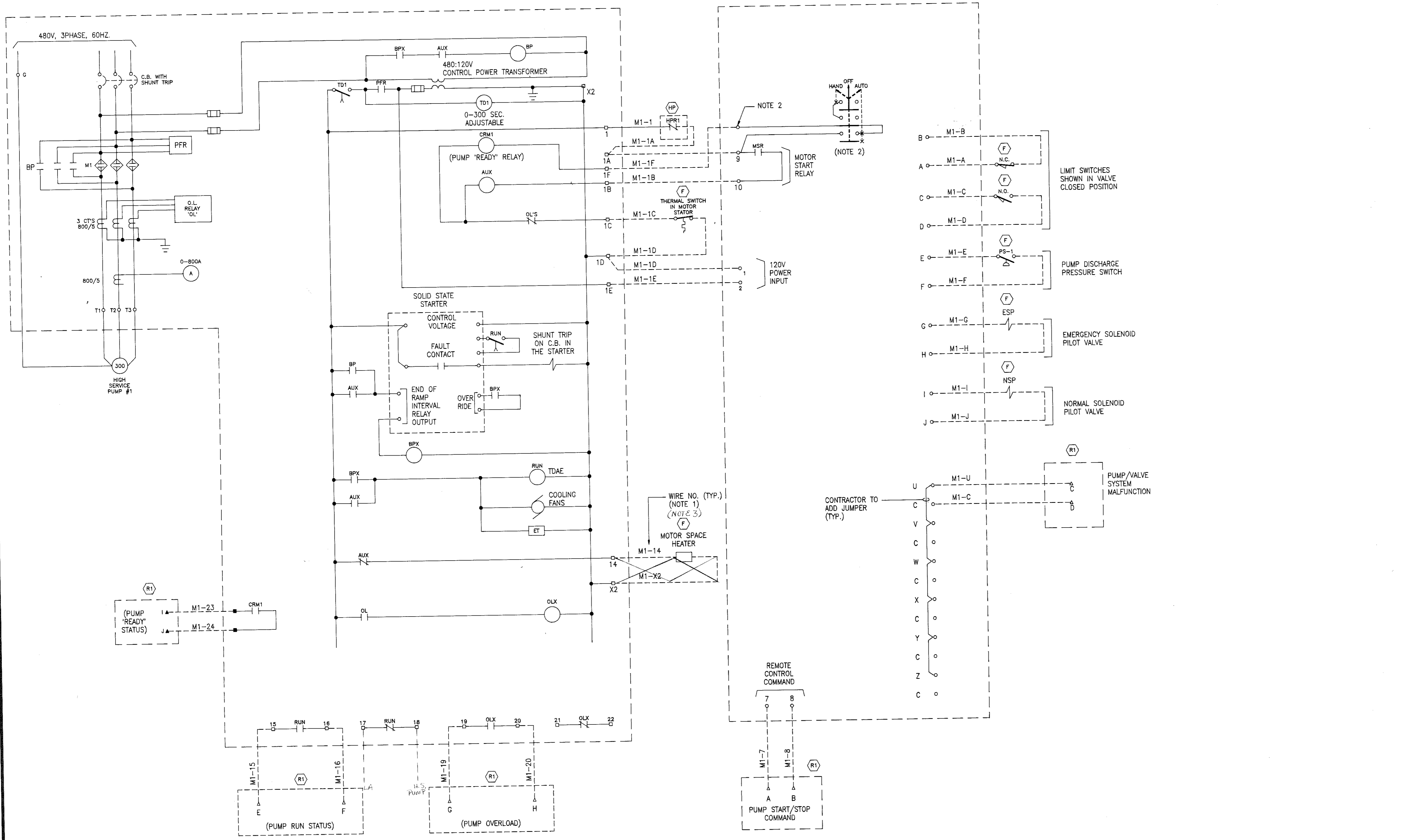


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SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM

E-8 SCHEMATIC DIAGRAMS
SHEET 2

REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT -	DESIGN SNK	SCALE NONE
						DISTRICT - 183, 184, 201 & 202	DRAWN PYB	DATE 10/16/98
						SECTION - 4th	CHECK SNK	FILE NO. 96158
						CITY -	APPROVED JEM	SHEET NO. 137
						COUNTY - FAYETTE		
						STATE - GEORGIA		



- NOTES:**
1. THE SCHEMATIC DIAGRAM IS TYPICAL FOR HIGH SERVICE PUMP #1, 2 & 3. THE WIRE NUMBER PREFIX FOR HIGH SERVICE PUMP #2 AND HIGH SERVICE PUMP #3 SHALL BE 'M2' & 'M3' RESPECTIVELY.
 2. CONTRACTOR SHALL ADD ONE CONTACT ON THE 'H-O-A' SWITCH IN THE PANEL. THE CONTACT SHALL CLOSE IN THE 'AUTO' POSITION. CONTRACTOR SHALL ALSO ADD THE INDICATED TERMINAL AND PROVIDE THE WIRING.
 3. MOTOR HEATER CIRCUIT FEED FROM PANEL LIA CIRCUIT #

- LEGEND**
- A TERMINAL IN REMOTE I/O UNIT #1. 'A' DENOTES TERMINAL IN REMOTE I/O UNIT #1 AS SHOWN ON TERMINATION TABLE, THIS SHEET
 - TERMINAL IN MCC
 - TERMINAL IN VALVE CONTROL PANEL
 - WIRE NUMBER
 - M4-3 3 WIRE NUMBER DESIGNATION
 - DENOTES FIELD WIRING
 - BP BYPASS CONTACTOR

- LOCATION LEGEND**
- (F) LOCATED IN FIELD
 - (HP) FINISHED WATER HIGH PRESSURE SHUTDOWN CONTROL PANEL
 - (R1) LOCATED IN REMOTE I/O UNIT
R1 DENOTES REMOTE I/O UNIT #1
R2 DENOTES REMOTE I/O UNIT #2, ETC.
 - ALL OTHER DEVICES LOCATED IN MCC
 - (V) PUMP DISCHARGE VALVE CONTROL PANEL. SEE SPECIFICATIONS.

REMOTE I/O UNIT #1 TERMINATION TABLE

TERMINAL	HSP #1	HSP #2	HSP #3
A	1	11	21
B	2	12	22
C	3	13	23
D	4	14	24
E	5	15	25
F	6	16	26
G	7	17	27
H	8	18	28
I	9	19	29
J	10	20	30

**SCHEMATIC DIAGRAM
HIGH SERVICE PUMP #1
(NOTE 1)**

**SCHEMATIC DIAGRAM
PUMP DISCHARGE VALVE CONTROL PANEL
HIGH SERVICE PUMP #1
(NOTE 1)**

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**SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM**

**SCHEMATIC DIAGRAM
SHEET 3**

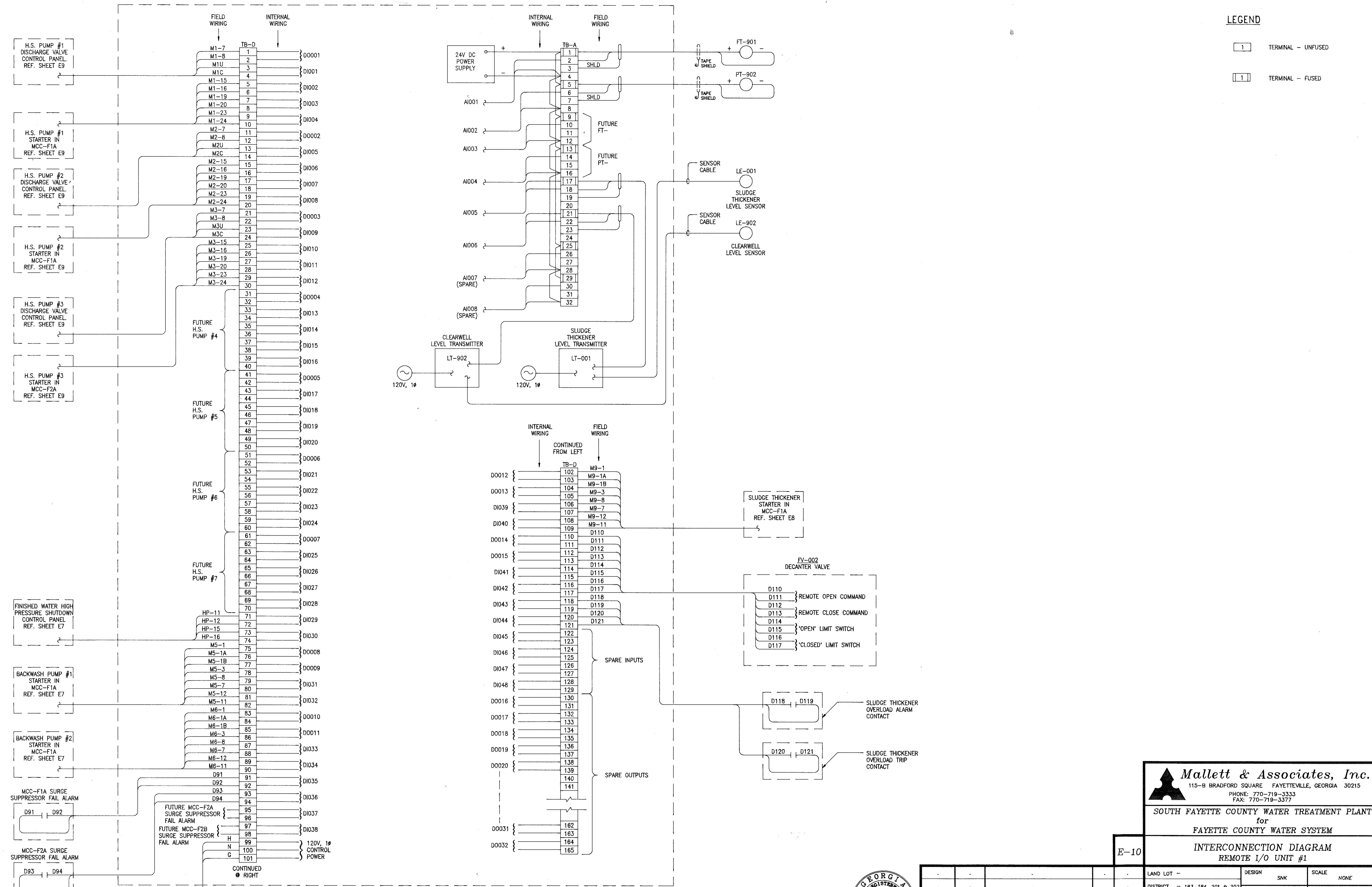


REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	DESIGN	SCALE
					GEORGIA	SNK	NONE
						DATE	10/16/98
						FILE NO.	96158
						SHEET NO.	138

E-9

LEGEND

- TERMINAL - UNFUSED
- TERMINAL - FUSED



INTERCONNECTION DIAGRAM
REMOTE I/O UNIT #1 (R1)
FINISHED WATER PUMP STATION

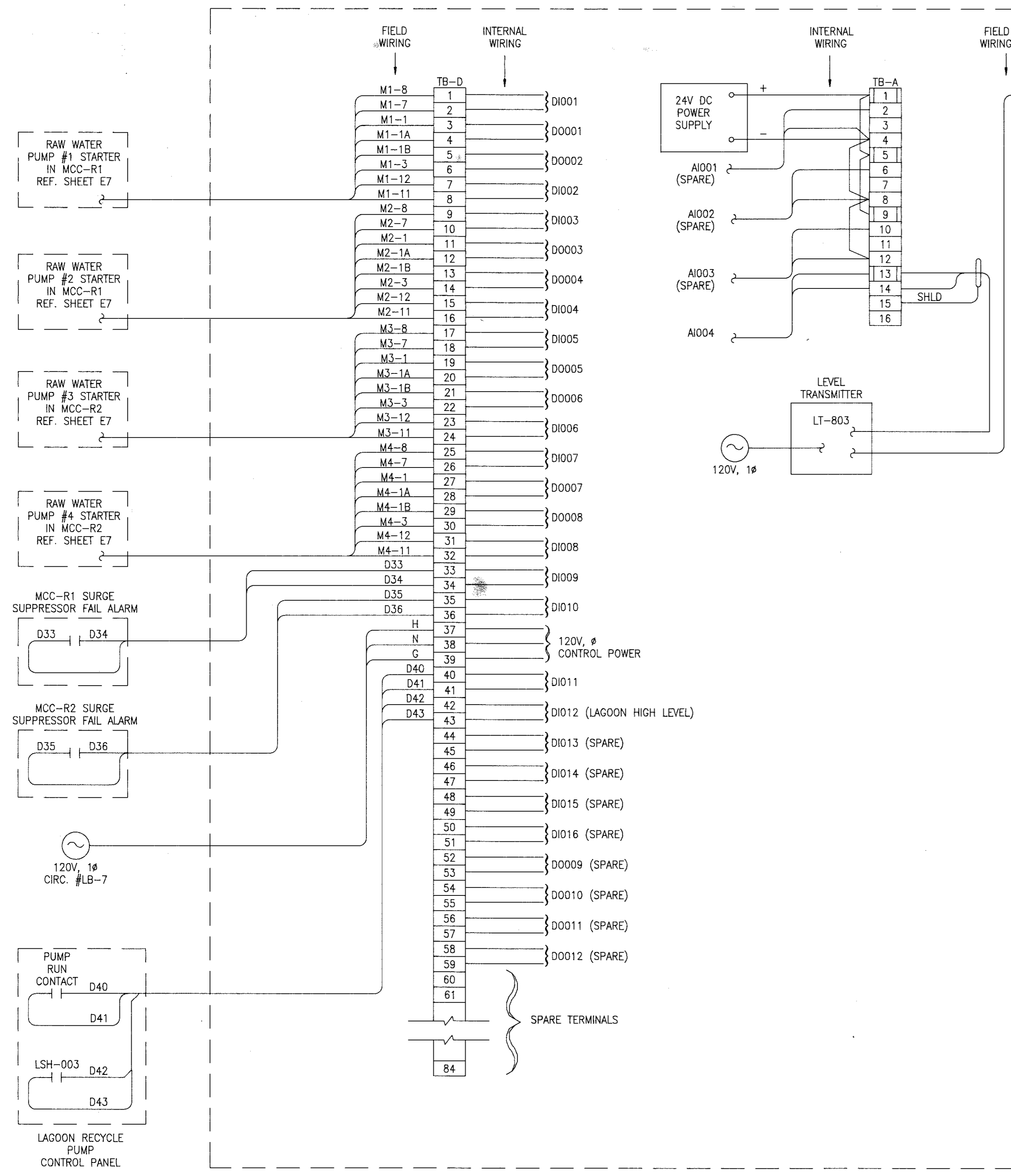
Mallett & Associates, Inc.
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PHONE: 770-719-3333
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SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM

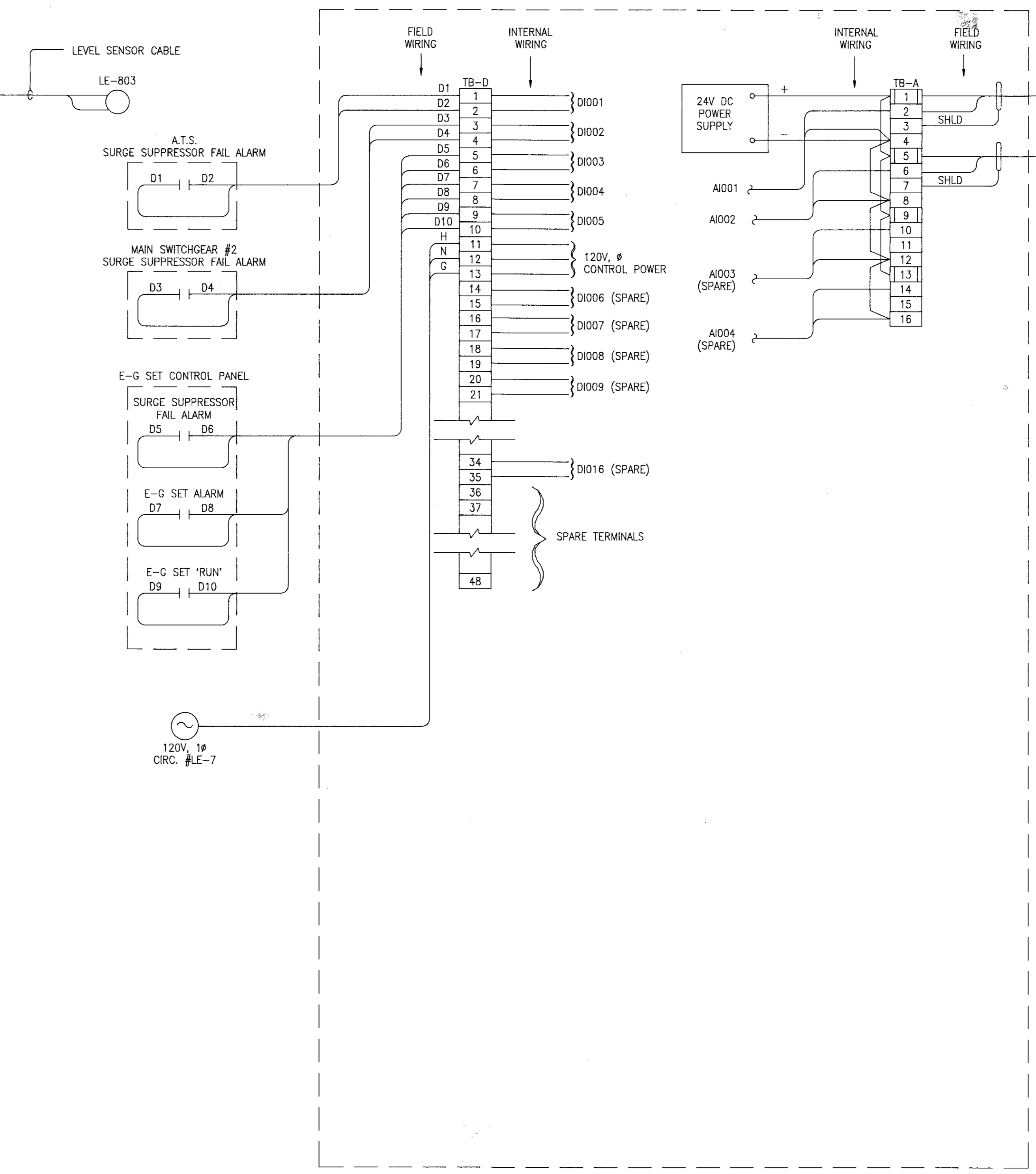
E-10 INTERCONNECTION DIAGRAM
REMOTE I/O UNIT #1



DESIGN	SNK	SCALE	NONE
DRAWN	PYB	DATE	10/16/98
CHECK	SNK	FILE NO.	96158
APPROVED	JEM	SHEET NO.	139
REV. No.	DATE	DESCRIPTION	BY APP'D
LAND LOT	-	DISTRICT	- 183, 184, 201 & 202
SECTION	- 4th	CITY	-
COUNTY	- FAYETTE	STATE	- GEORGIA



INTERCONNECTION DIAGRAM
 REMOTE I/O UNIT #2 (R2)
 RAW WATER PUMP STATION



INTERCONNECTION DIAGRAM
 REMOTE I/O UNIT #3 (R3)
 ELECTRICAL ROOM

LEGEND

[] TERMINAL - UNFUSED

[] TERMINAL - FUSED

E-11

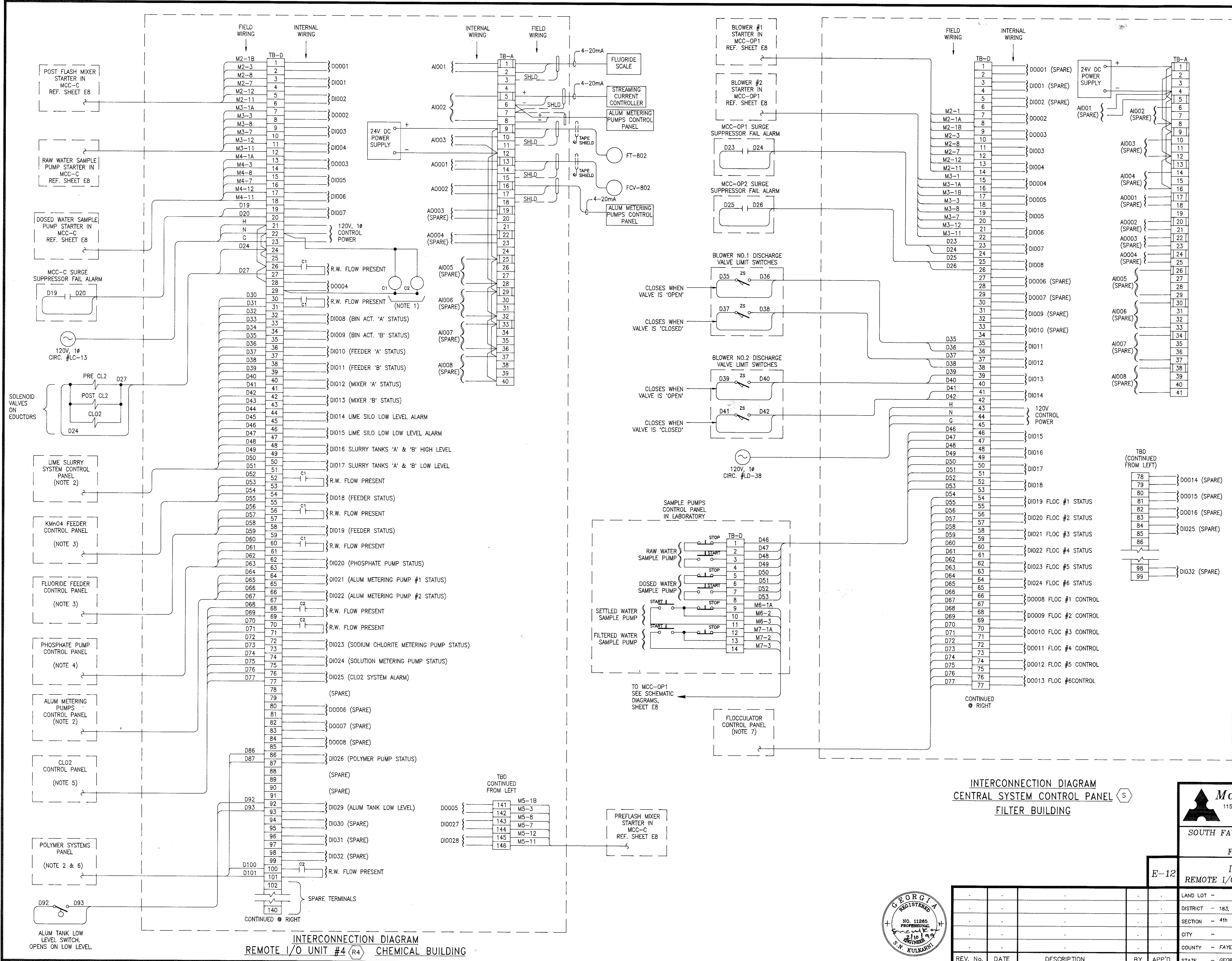
Mallett & Associates, Inc.
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 PHONE: 770-719-3333
 FAX: 770-719-3377

SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
 for
 FAYETTE COUNTY WATER SYSTEM

INTERCONNECTION DIAGRAM
 REMOTE I/O UNIT #2 & #3



REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT	DESIGN	SCALE
					GEORGIA	-	SNK	NONE
						DISTRICT - 183, 184, 201 & 202	PNB	DATE 10/16/98
						SECTION - 4th	SNK	FILE NO. 96158
						CITY -	JEM	SHEET NO. 140
						COUNTY - FAYETTE		
						APPROVED		



LEGEND

□ 1 TERMINAL - UNFUSED

□ 1 1 TERMINAL - FUSED

- NOTES:**
1. PROVIDE TWO SIZE 0, 5 POLE CONTACTORS. THE CONTACTORS SHALL ENERGIZE WHEN D0004 CONTACT CLOSURES ON PRESENCE OF RAW WATER FLOW.
 2. TERMINATE WIRES IN ACCORDANCE WITH MANUFACTURER'S APPROVED SHOP DRAWINGS.
 3. CONNECT 'C1' CONTACT TO 'AUTO' SIDE OF 'ON-OFF-AUTO' SELECTOR SWITCH ON FEEDER CONTROL PANEL.
 4. CONNECT 'C1' CONTACT TO 'AUTO' SIDE OF 'ON-OFF-AUTO' SELECTOR SWITCH ON THE PHOSPHATE PUMP CONTROL PANEL.
 5. CONNECT 'C2' CONTACTS TO 'AUTO' SIDE OF 'ON-OFF-AUTO' SELECTOR SWITCHES FOR THE TWO METERING PUMPS.
 6. CONNECT 'C2' CONTACT TO AUTO SIDE OF 'ON-OFF-AUTO' SELECTOR SWITCH FOR POLYMER PUMP.
 7. REFER TO MANUFACTURER'S APPROVED SHOP DRAWINGS FOR TERMINATION.

INTERCONNECTION DIAGRAM
CENTRAL SYSTEM CONTROL PANEL
FILTER BUILDING

INTERCONNECTION DIAGRAM
REMOTE I/O UNIT #4 (R4) CHEMICAL BUILDING

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for
FAYETTE COUNTY WATER SYSTEM

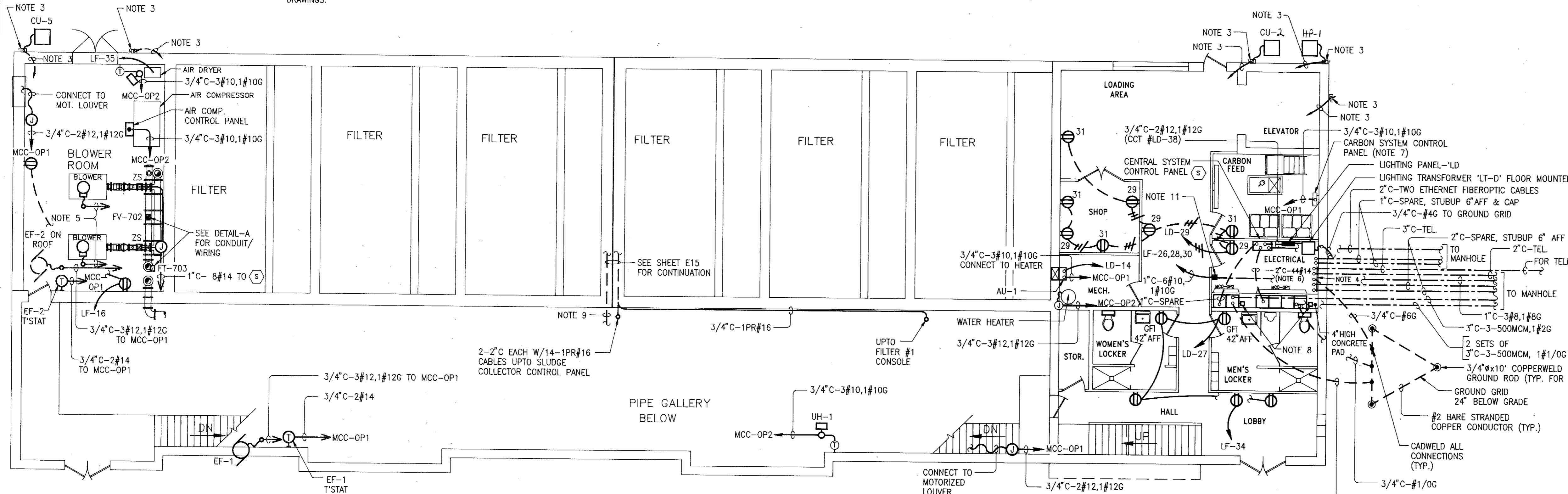
E-12 INTERCONNECTION DIAGRAM
REMOTE I/O UNIT #4 & CENTRAL SYS. CONT. PANEL

REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT -	DESIGN	SCALE
					GEORGIA		SNK	NONE
						DISTRICT - 183, 184, 201 & 202	DRAWN	DATE
						SECTION - 4th	PYB	10/16/98
						CITY -	CHECK	FILE No.
						COUNTY - FAYETTE	SNK	96158
						APPROVED	JEM	SHEET No.
						STATE - GEORGIA		141

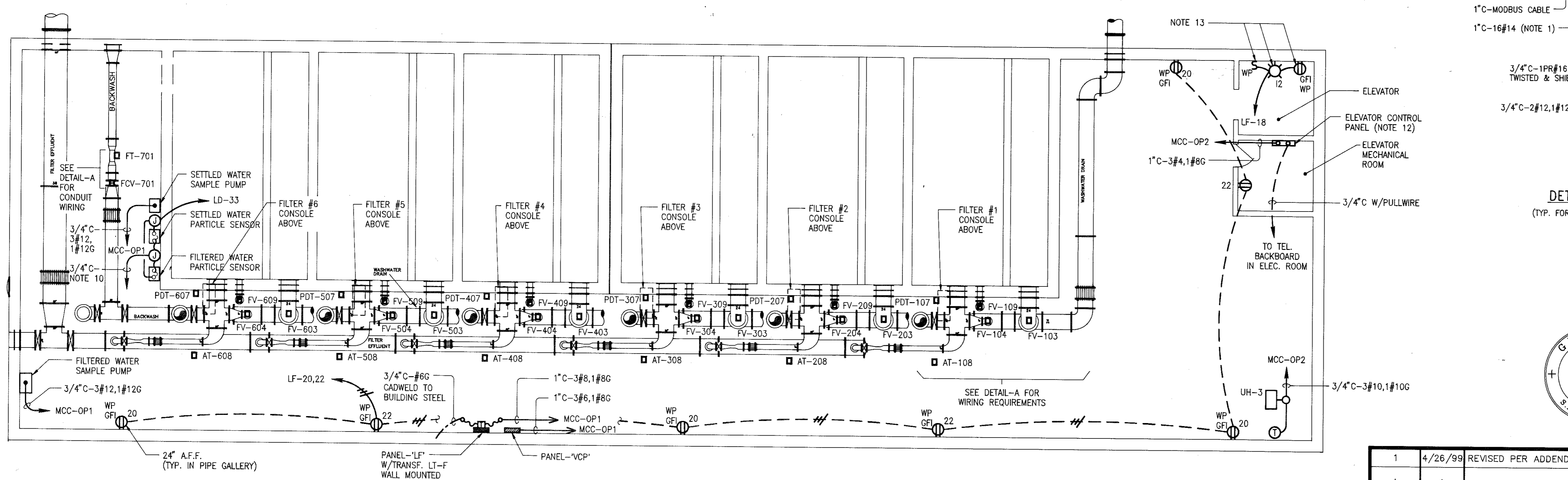


NOTES:

- CONTROL WIRES FOR B.W. SUPPLY FLOW CONTROL VALVE FCV-701 AND BLOWER UNLOADING VALVE FV-702 SHALL BE DAISY CHAINED TO ALL FILTER CONSOLES. LABEL SPARE WIRES AS "SPARE".
- THE SIGNAL CABLES SHALL BE AS FOLLOWS:
 - 1PR#16 BACKWASH SUPPLY FLOW SIGNAL FROM FT-701
 - 1PR#16 BACKWASH SUPPLY FLOW SETPOINT SIGNAL
 - 1PR#16 AIR SCOUR FLOW SIGNAL FROM FT-703
- PROVIDE 30/3/4X FUSED DISCONNECT SWITCH IN STAINLESS STEEL ENCLOSURE. FIELD ROUTE 3/4"C-3#10,1#10G FROM DISCONNECT SWITCH TO MCC-OP1.
- PROVIDE 4"W x 6"H x 3/4" THICK PLYWOOD BACKBOARD FINISHED W/ ANSI LIGHT GREY ENAMEL PAINT.
- FIELD ROUTE 2"C-3#2/0,1#4G TO MCC-OP1.
- LEAVE 3' SLACK IN SPARE WIRES AT BOTH ENDS AND LABEL THEM "SPARE".
- PROVIDE CONDUIT/WIRING TO DUST COLLECTOR, PUMP, MIXER AND ALL CONTROL DEVICES FROM THE CONTROL PANEL IN ACCORDANCE WITH MANUFACTURER'S APPROVED SHOP DRAWINGS.
- INSTALL SURGE SUPPRESSOR NIPPLED TO THE INCOMING LINE SECTION AND CONNECT TO INCOMING LINE LUGS. PROVIDE 3/4"C-2#14 CONCEALED IN FLOOR SLAB TO (S) FOR SURGE SUPPRESSOR FAIL ALARM.
- FIELD ROUTE THE CONDUITS AS FOLLOWS:
 - 1"C-3#10,1#10G TO MCC-OP1
 - 3/4"C-3#10,1#10G TO PANEL-LD
 - 3/4"C-2#8,1#8G TO PANEL-LF
 - 1"C-24#14 TO (S)
- EXTERIOR LIGHTING CONTACTOR. SEE SCHEMATIC DIAGRAM, SHEET E14. PROVIDE 3/4"C-3#14 FROM LIGHTING CONTACTOR TO PHOTOCELL MOUNTED ON OVERHANG OF ROOF @ NORTH END OF BUILDING ABOVE BLOWER ROOM.
- PROVIDE ALL POWER, CONTROL, SIGNAL AND TELEPHONE WIRING PER ELEVATOR MANUFACTURER'S APPROVED SHOP DRAWINGS.
- INSTALL ON ELEVATOR PIT WALL @ APPROX. 3'-0" ABOVE PIT FLOOR.



**POWER & CONTROL LAYOUT
GROUND LEVEL**
1/8" = 1'-0"



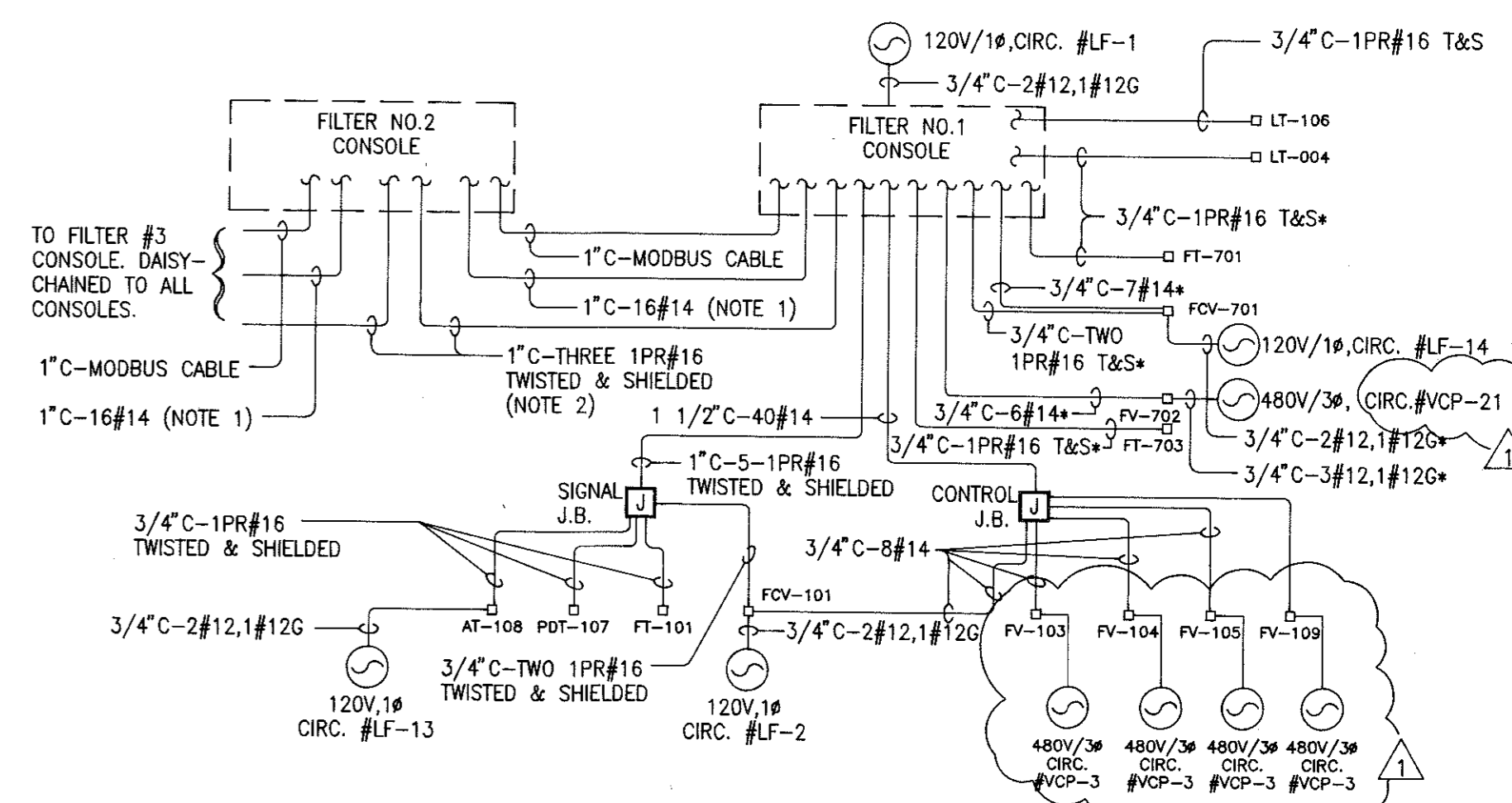
**POWER & CONTROL LAYOUT
PIPE GALLERY - LOWER LEVEL**
1/8" = 1'-0"

PANELBOARD SCHEDULE

PANEL TYPE	VF SURFACE MOUNTED	VOLTAGE MAINS	120/208V, 3P, 4W	LOAD (KVA)	TRIP/ CIRCUIT	MINIMUM INTERRUPTING CAPACITY	CIRCUIT
CIRCUIT NUMBER	DESIGNATION	VA	POLES	A	B	C	POLES VA DESIGNATION
1	FILTER #1 CONSOLE	600	20/1	800		20/1	200 FILTER #1 EFFL. VALVE
2	FILTER #2 CONSOLE	600	20/1	800		20/1	200 FILTER #2 EFFL. VALVE
3	FILTER #3 CONSOLE	600	20/1	800		20/1	200 FILTER #3 EFFL. VALVE
4	FILTER #4 CONSOLE	600	20/1	800		20/1	200 FILTER #4 EFFL. VALVE
5	FILTER #5 CONSOLE	600	20/1	800		20/1	200 FILTER #5 EFFL. VALVE
6	FILTER #6 CONSOLE	600	20/1	800		20/1	200 FILTER #6 EFFL. VALVE
7	TRUBIDIMETER AT-10B	200	20/1	400		20/1	200 FCV-701
8	TRUBIDIMETER AT-20B	200	20/1	400		20/1	400 BLOWER ROOM RECEPT.
9	TRUBIDIMETER AT-30B	200	20/1	400		20/1	300 ELEV. PIT LIGHT & RECEPT.
10	TRUBIDIMETER AT-40B	200	20/1	400		20/1	800 PIPE GALLERY RECEPT.
11	TRUBIDIMETER AT-50B	200	20/1	400		20/1	600 PIPE GALLERY RECEPT.
12	TRUBIDIMETER AT-60B	200	20/1	400		20/1	1500 EXTERIOR LIGHTS
13	AIR HANDLING UNIT AU-2	1400	20/1	2500		30/2	20/1 1100 EXTERIOR FILTER LIGHTS
14	AIR HANDLING UNIT AU-3	1400	20/1	2500		30/2	1100 PARKING & ROADWAY LIGHTS
15	AIR HANDLING UNIT AU-4	1400	20/1	2500		30/2	20/1 200 DRINKING FOUNTAIN
16	AIR DRYER	300	20/1	1600		20/1	200 DRINKING FOUNTAIN
17	SEE BASIN LIGHTS	1200	20/1	1800		20/1	600 COMPUTER WORKSTATION #3
18	FITTING LIGHTS	20/1		0		20/1	20/1 200 DRINKING FOUNTAIN
19	FITTING LIGHTS	20/1		0		20/1	20/1 200 PARTICLE COUNTER
20	SPARE	20/1		0		20/1	SPARE
TOTAL PHASE TOTALS		7100	6050	8150			
TOTAL CONNECTED LOAD		61300					

PANELBOARD SCHEDULE

PANEL TYPE	VF SURFACE MOUNTED	VOLTAGE MAINS	480V, 3P, 3W	LOAD (KVA)	TRIP/ CIRCUIT	MINIMUM INTERRUPTING CAPACITY	CIRCUIT
CIRCUIT NUMBER	DESIGNATION	VA	POLES	A	B	C	POLES VA DESIGNATION
1	FILT. #1 MOTORIZED VLVS	300	20/3	600		20/3	300 FILT. #1 MOTORIZED VLVS
2	FILT. #2 MOTORIZED VLVS	300	20/3	600		20/3	300 FILT. #2 MOTORIZED VLVS
3	FILT. #3 MOTORIZED VLVS	300	20/3	600		20/3	300 FILT. #3 MOTORIZED VLVS
4	FILT. #4 MOTORIZED VLVS	300	20/3	600		20/3	300 FILT. #4 MOTORIZED VLVS
5	FILT. #5 MOTORIZED VLVS	300	20/3	600		20/3	300 FILT. #5 MOTORIZED VLVS
6	FILT. #6 MOTORIZED VLVS	300	20/3	600		20/3	300 FILT. #6 MOTORIZED VLVS
7	BLW UNLOAD. VLV FV-702	300	20/3	300		20/3	SPARE
8	SPARE	20/3		0		20/3	SPARE
9	SPARE	20/3		0		20/3	SPARE
10	SPARE	20/1		0		20/1	SPARE
11	SPARE	20/1		0		20/1	SPARE
12	SPARE	20/1		0		20/1	SPARE
13	SPARE	20/1		0		20/1	SPARE
14	SPARE	20/1		0		20/1	SPARE
15	SPARE	20/1		0		20/1	SPARE
16	SPARE	20/1		0		20/1	SPARE
17	SPARE	20/1		0		20/1	SPARE
18	SPARE	20/1		0		20/1	SPARE
19	SPARE	20/1		0		20/1	SPARE
20	SPARE	20/1		0		20/1	SPARE
TOTAL PHASE TOTALS		2100	2100	2100			
TOTAL CONNECTED LOAD		6300					



DETAIL-A FILTER NO.1 CONDUIT/WIRING BLOCK DIAGRAM
(TYP. FOR 6 FILTERS - EXCEPT WIRING IDENTIFIED WITH * - WHICH IS FOR FILTER #1 CONSOLE ONLY)

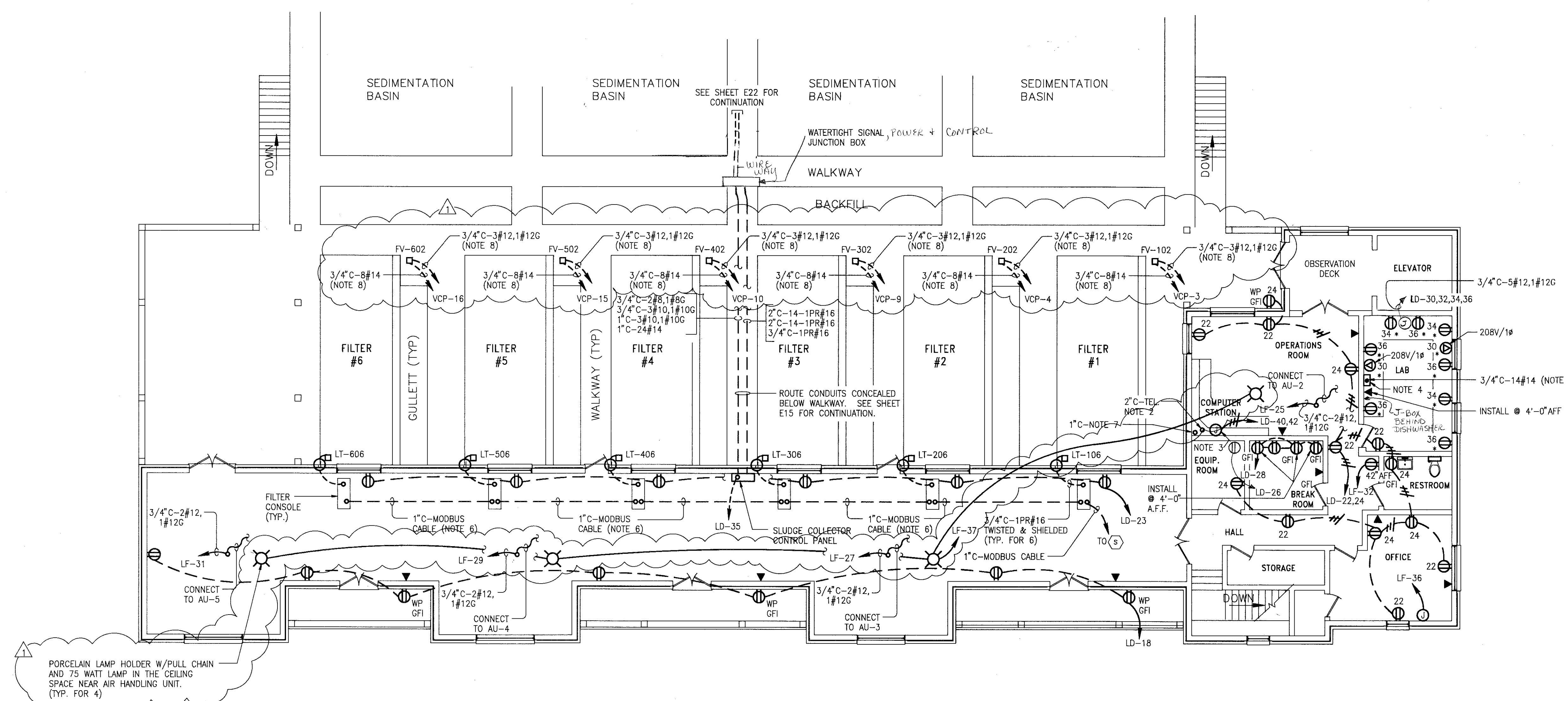


Mallett & Associates, Inc.
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SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM

E-15 FILTER BUILDING - POWER & CONTROL LAYOUT, SHEET 1

REV. No.	DATE	DESCRIPTION	BY	APP'D	STATE	LAND LOT	DESIGN	SCALE
1	4/26/99	REVISED PER ADDENDUM #2	SNK	JEM	GA	183, 184, 201 & 202	SNK	1/8" = 1'-0"
						4th	PNB	10/16/98
							SNK	96158
							JEM	144



- NOTES:**
- ALL RECEPTACLES IDENTIFIED WITH ASTERISK (*) SHALL BE FURNISHED WITH LABORATORY FURNITURE.
 - PROVIDE 2" C FOR TELEPHONE FIELD ROUTED FROM COMPUTER STATION TO TELEPHONE BACKBOARD IN ELECTRICAL ROOM. STUBUP THE CONDUIT 3" A.F.F. PROVIDE PULLWIRE IN THE CONDUIT.
 - PROVIDE JUNCTION BOX BELOW THE COMPUTER STATION. LEAVE 10' SLACK IN THE WIRES FOR CONNECTION TO U.P.S., PRINTER ETC.
 - PROVIDE A NEMA-12 CONTROL PANEL FINISHED WITH ANSI-61 LIGHT GREY ENAMEL PAINT, HOFFMAN OR EQUAL WALL MOUNT PANEL NEXT TO THE SINK W/SAMPLE PUMP LINES PROVIDE 4 SETS OF HEAVY DUTY OILTIGHT "START" & "STOP" PUSHBUTTONS ON THE DOOR. PROVIDE TERMINAL BLOCK ON THE SUBPANEL AND WIRE THE PUSHBUTTONS IN ACCORDANCE WITH SHEET E12. PROVIDE FOUR ENGRAVED PLASTIC NAMEPLATES ON THE PANEL DOOR TO IDENTIFY EACH SET OF PB'S AS FOLLOWS:

NAMEPLATE	INSCRIPTION
#1	"RAW WATER SAMPLE PUMP"
#2	"DOSED WATER SAMPLE PUMP"
#3	"SETTLED WATER SAMPLE PUMP"
#4	"FILTERED WATER SAMPLE PUMP"
 - ROUTE CONDUIT TO ELECTRICAL ROOM. PROVIDE A J.B. IN CONDUIT RUN INSIDE ELECTRICAL ROOM. ROUTE 3/4" C-6#14 FROM J.B. TO MCC-OP1 AND 3/4" C-8#14 TO (S).
 - PROVIDE CONDUIT FIELD ROUTED FROM COMPUTER STATION TO (S) IN ELECTRICAL ROOM. INSTALL CABLE FURNISHED IN INSTRUMENTATION SECTION.
 - FIELD ROUTE 3/4" C-3#12, 1#12G TO PANEL "VCP" AND 3/4" C-8#14 TO THE RESPECTIVE FILTER CONSOLE.

PORCELAIN LAMP HOLDER W/PULL CHAIN AND 75 WATT LAMP IN THE CEILING SPACE NEAR AIR HANDLING UNIT. (TYP. FOR 4)

**POWER & CONTROL LAYOUT
SECOND FLOOR**
1/8" = 1'-0"

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**SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM**

**E-16 FILTER BUILDING -
POWER & CONTROL LAYOUT, SHEET 2**



1	4/26/99	REV. PER ADDENDA #1 & #2	SNK	JEM	LAND LOT -	DESIGN	SNK	SCALE	1/8" = 1'-0"
.	.	.	.	.	DISTRICT - 183, 184, 201 & 202	DRAWN	PYB	DATE	10/16/98
.	.	.	.	.	SECTION - 4th	CHECK	SNK	FILE NO.	96158
.	1/02	AS BUILT	DMM	DMS	CITY -	APPROVED	JEM	SHEET NO.	145
REV. No.	DATE	DESCRIPTION	BY	APP'D	COUNTY - FAYETTE	STATE - GEORGIA			