

December 9, 2022

**Subject: RFQ #2197-A: Water System Soft Starter Replacement
Addendum #1**

Gentlemen/Ladies:

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

Crabapple

1. Does the County have a preferred vendor for the installation?

The County does not have a preferred installation vendor.

Crosstown

2. Some drives will not fit in the existing cabinet. Where do you want to put the replacement cabinet, if necessary?

For Crosstown HSP 3, a new cabinet can be installed to the left of the existing HSP 3 MCC. Fayette County will approve final location before installation. Bidder shall state on the exception sheet if their quote includes a new cabinet.

South Fayette

3. Provide schematic for Finished Water Pump #2.

Electrical drawings for the South Fayette WTP are provided (Attachment 1). Also provided is the original schematic for the South Fayette finish water pump motor control center and a modified schematic showing removal of the GE soft starter for Finished Water Pump #1 (Attachment 2).

Lake Horton

4. Check schematics for Lake Horton for connection to the electric actuator.

Lake Horton RWPS pumps 1 and 2 Control Diagram and P&ID for connection of the MCC soft starter to the electric actuator controls are provided (Attachment 3). Additional electrical drawings can be provided to the awarded vendor if needed.

Received by (Name): _____ Company _____

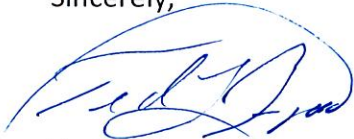
Note: If this addendum is not returned to the Fayette County Purchasing Department or if it is returned not signed, responding individuals, companies or other organizations will still be responsible for the requirements of this addendum and the specifications or changes herein.

The opening date for this RFQ has not changed. **The opening time and date are 3:00 p.m., Tuesday, December 13, 2022.** Quotes must be received by the Purchasing Department at the address above, Suite 204, at or before the opening date and time.

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 Natasha Duggan, Contract Administrator at (770) 305-5150, fax (770) 719-5534 or email at nduggan@fayettecountyga.gov.

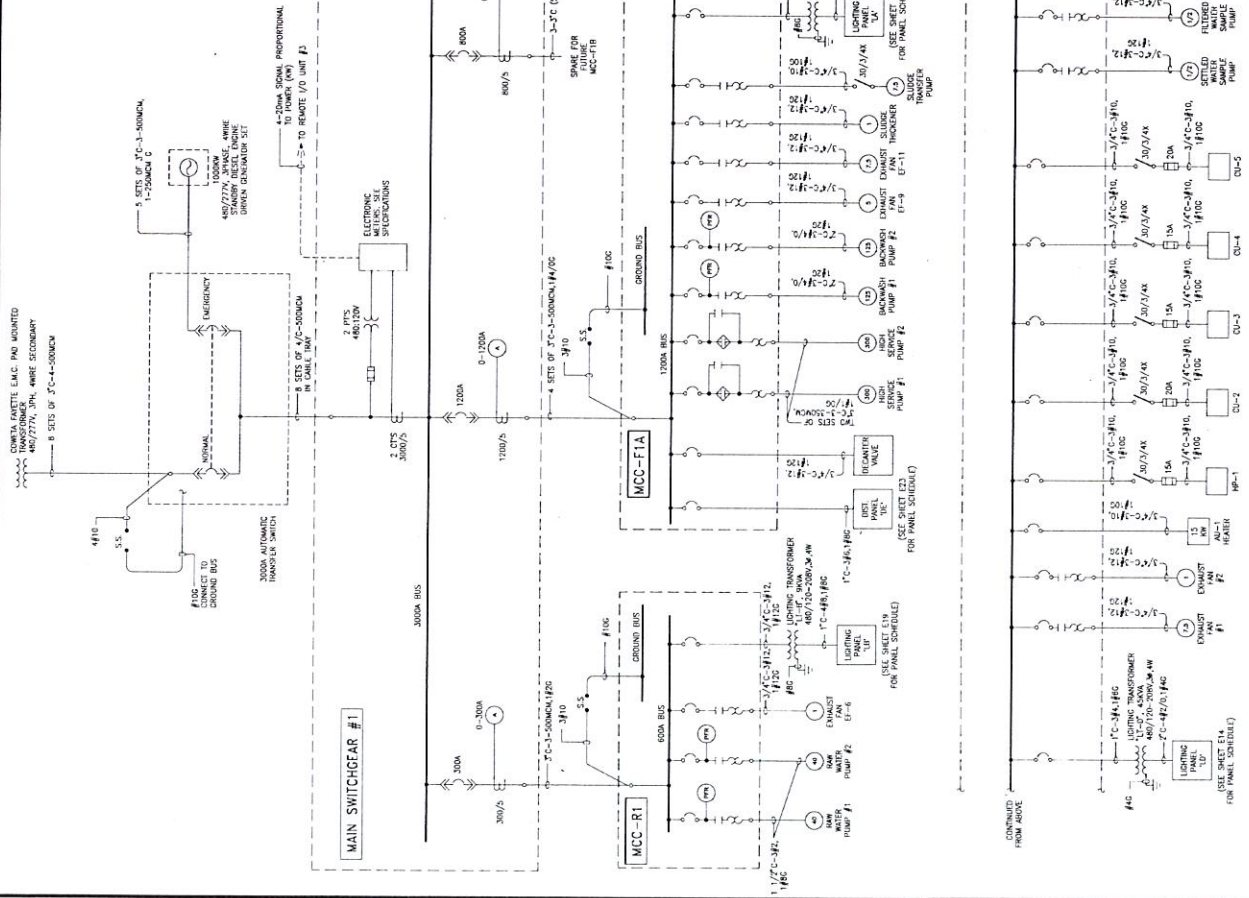
Sincerely,



Ted L. Burgess
Director of Purchasing

NOTES:

1. REFER TO SHEET E-3 FOR MCC
CIRCUIT BREAKERS AND STARTERS.



Mallett & Associates, Inc.
115-B BRADSHAW SQUARE, FAYETTEVILLE, GEORGIA 30515
PHONE: 770-778-3333
FAX: 770-778-3333



SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM

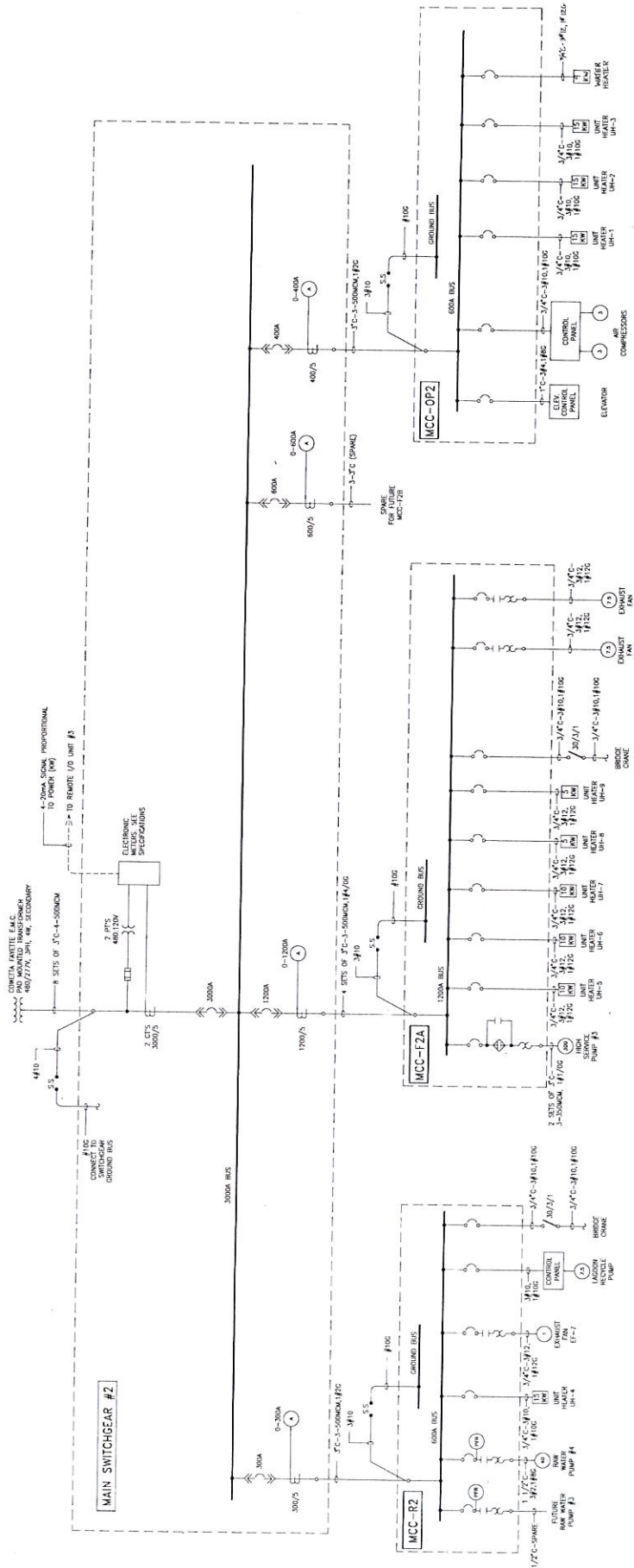
SINGLE LINE DIAGRAM
SHEET 1

LAND LIFT	SW	SCALE	NONE
DISTRICT	WAL. H. 201	DATE	10/17/98
SECTION	401	CHECK	SW
DTY	U.S.	APPROVED	AM
REV. NO.	1/22	DATE	11/22/98
BY	APPROVED	DATE	11/22/98
DESCRIPTION	DATE	DATE	DATE

SINGLE LINE DIAGRAM

NOTES:

1. REFER TO SHEET E-5 & E-6 FOR MCC
SCHEDULES, EQUIPMENT SPECIFICATIONS,
CABLE SCHEDULES AND SCHEDULES.



SINGLE LINE DIAGRAM

Mallett & Associates, Inc.
115-B BRADFORD SQUARE FAYETTEVILLE, GEORGIA 30215
PHONE 770-779-3333
FAX 770-779-3333

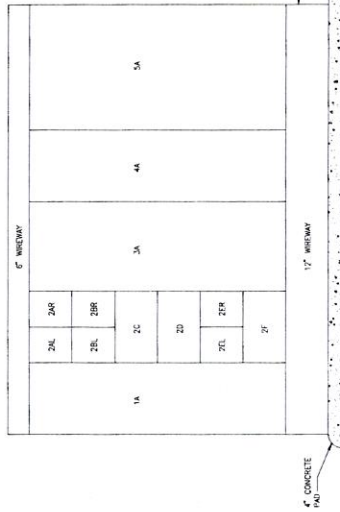
SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
for
FAYETTE COUNTY WATER SYSTEM

SINGLE LINE DIAGRAM
SHEET 2

REV. NO.	DATE	DESCRIPTION	BY	APP'D	STATE	COUNTY	CITY	SECTION	PROJECT	SCALE	DATE
1					GA	FAYETTE				1"=100'	10/7/98

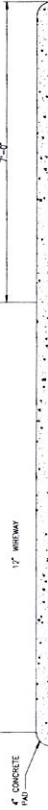
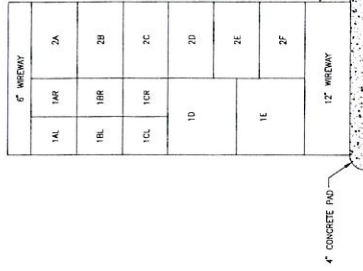


MCC-F2A

MCC-F2A
FRONT VIEW
N.T.S.

COMP. NO.	CONTROLLER	MOTOR H.P.	PROTECTIVE DEVICE	NAMEPLATE
1A	TYPE	TYPE	TYPE	NAMEPLATE
2A				UNIT HEATER UNIT-5
2B				UNIT HEATER UNIT-6
2C				UNIT HEATER UNIT-7
2D				UNIT HEATER UNIT-8
2E				UNIT HEATER UNIT-9
2F				UNIT HEATER UNIT-10
2G				UNIT HEATER UNIT-11
2H				UNIT HEATER UNIT-12
2I				UNIT HEATER UNIT-13
2J				UNIT HEATER UNIT-14
2K				UNIT HEATER UNIT-15
2L				UNIT HEATER UNIT-16
2M				UNIT HEATER UNIT-17
2N				UNIT HEATER UNIT-18
2O				UNIT HEATER UNIT-19
2P				UNIT HEATER UNIT-20
2Q				UNIT HEATER UNIT-21
2R				UNIT HEATER UNIT-22
2S				UNIT HEATER UNIT-23
2T				UNIT HEATER UNIT-24
2U				UNIT HEATER UNIT-25
2V				UNIT HEATER UNIT-26
2W				UNIT HEATER UNIT-27
2X				UNIT HEATER UNIT-28
2Y				UNIT HEATER UNIT-29
2Z				UNIT HEATER UNIT-30

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

MCC-F2A
FRONT VIEW
N.T.S.MCC-C
FRONT VIEW
N.T.S.

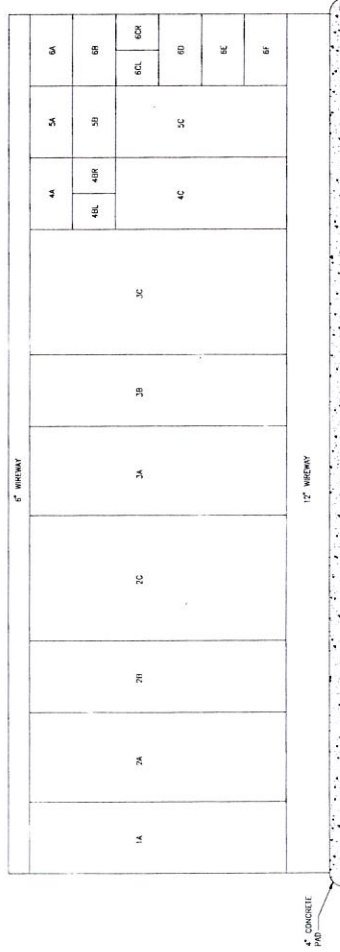
MCC-C

COMP. NO.	CONTROLLER	MOTOR H.P.	PROTECTIVE DEVICE	NAMEPLATE
1A	TYPE	TYPE	TYPE	NAMEPLATE
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2X				UNIT HEATER UNIT-28
2Y				UNIT HEATER UNIT-29
2Z				UNIT HEATER UNIT-30

MCC-F1A

COMP. NO.	CONTROLLER	MOTOR H.P.	PROTECTIVE DEVICE	NAMEPLATE
1A	TYPE	TYPE	TYPE	NAMEPLATE
2A				UNIT HEATER UNIT-5
2B				UNIT HEATER UNIT-6
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2Z				UNIT HEATER UNIT-30

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 ** CIRCUIT BREAKER SHALL BE PROVIDED WITH 120V A.C. SHUNT TRIP.

MCC-F1A
FRONT VIEW
N.T.S.

Mallett & Associates, Inc.
 115-B BRADFORD SQUARE FAYETTEVILLE, GEORGIA 30515
 PHONE (706) 851-1337
 FAX (706) 851-1337

SOUTH FAYETTE COUNTY WATER TREATMENT PLANT

for

FAYETTE COUNTY WATER SYSTEM

MOTOR CONTROL CENTER

SHEET 2

DATE

BY

DESCRIPTION

REV. NO.

DATE

BY

DESCRIPTION

REV. NO.

DATE



LEGEND

TERMINAL IN MCC
3

WIRE NUMBER
M-3 3

WIRE NUMBER DESIGNATION
M-3 3

TERMINAL IN REMOTE I/O UNIT
4

INDICATES FIELD WIRING

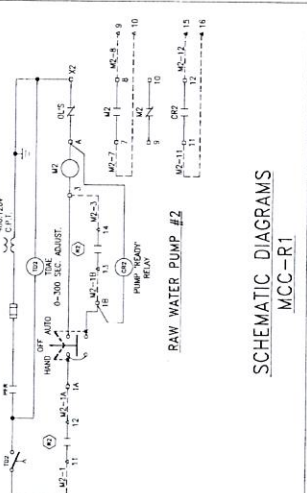
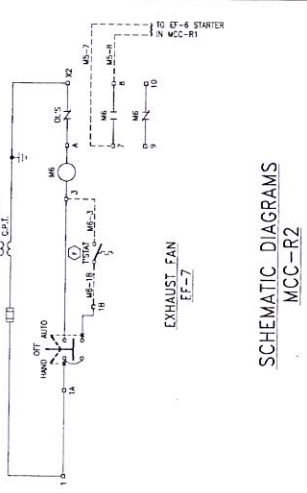
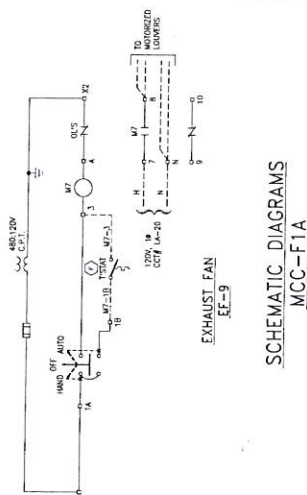
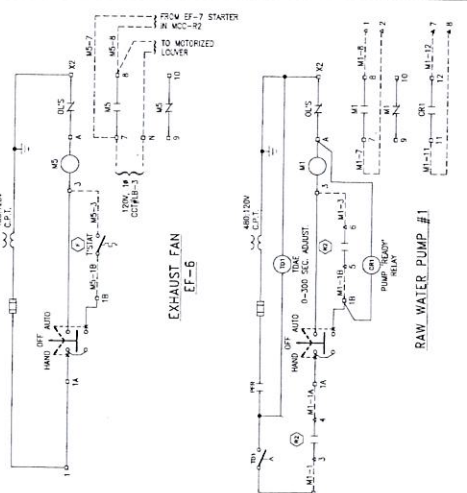
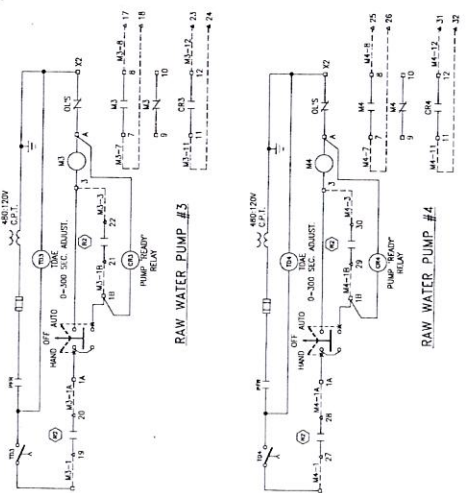
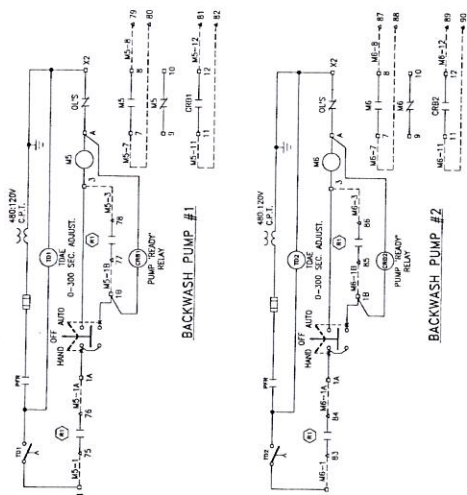
CONTACT OF PHASE FAILURE RELAY

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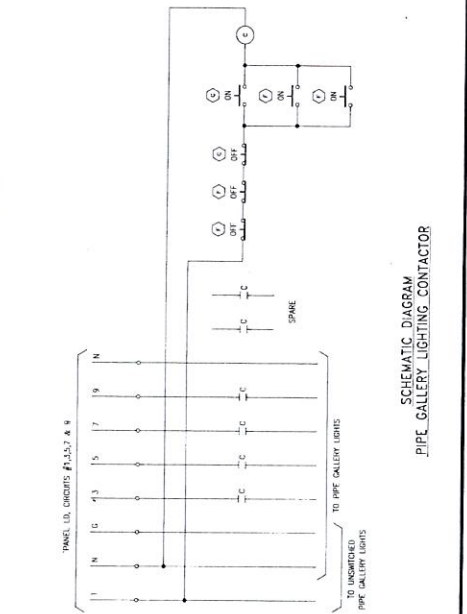
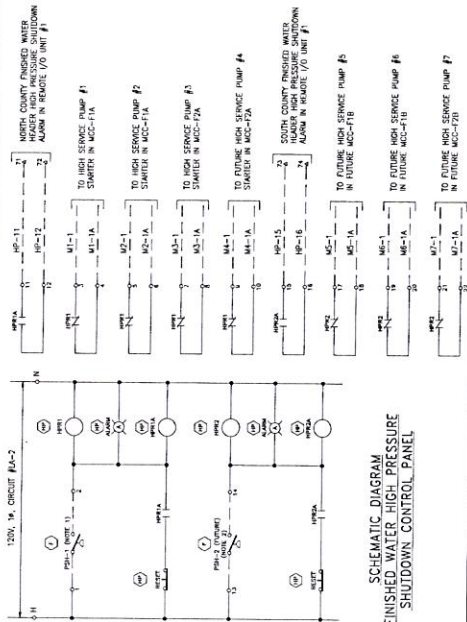
- PRESSURE SWITCH PSH-1 ON NORTH COUNTY FINISHED WATER HEADER, CLOSING ON HIGH PRESSURE.
- PRESSURE SWITCH PSH-2 ON FUTURE SOUTH COUNTY FINISHED WATER HEADER, CLOSING ON HIGH PRESSURE.



**SCHEMATIC DIAGRAMS
MCC-F1A**

**SCHEMATIC DIAGRAMS
MCC-R2**

**SCHEMATIC DIAGRAMS
MCC-R1**



Mallett & Associates, Inc.
115-B BRADLEY AVENUE
FAYETTEVILLE, GEORGIA 30515
PHONE 770-784-3371
FAX 770-784-3372

SOUTH FAYETTE COUNTY WATER TREATMENT PLANT
FAYETTE COUNTY WATER SYSTEM

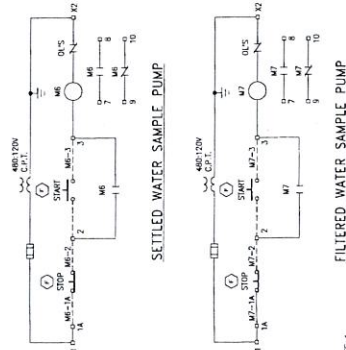
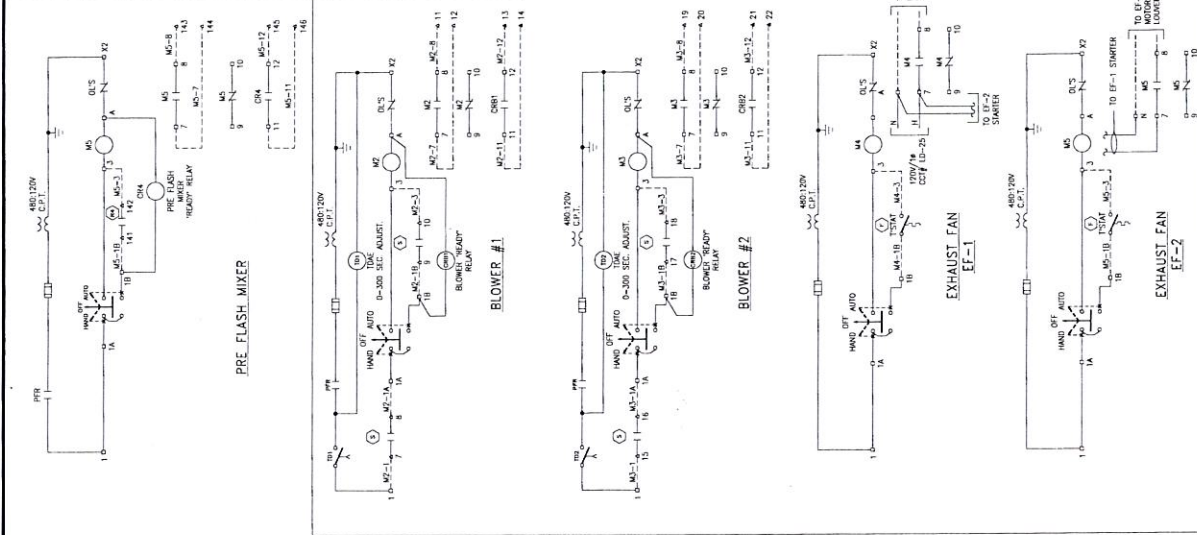
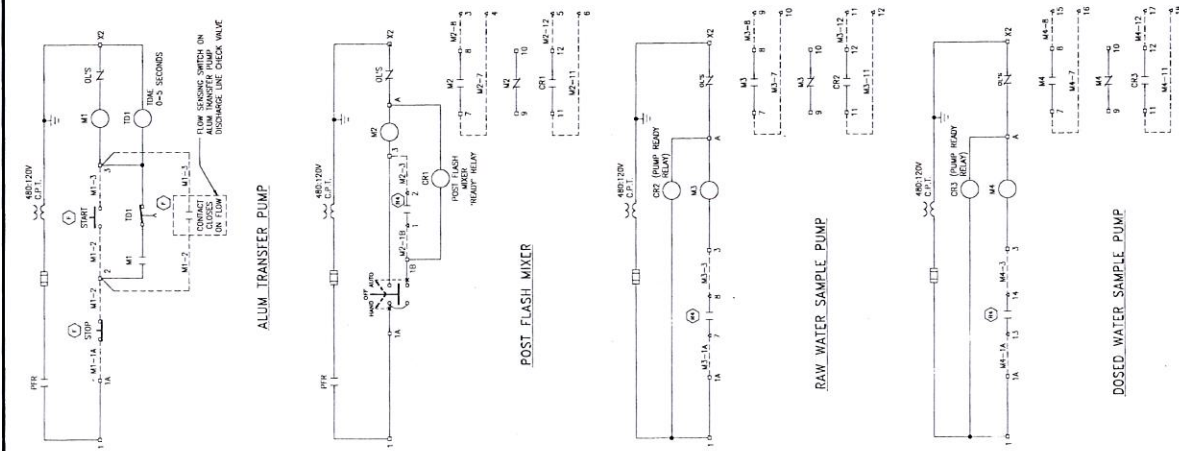
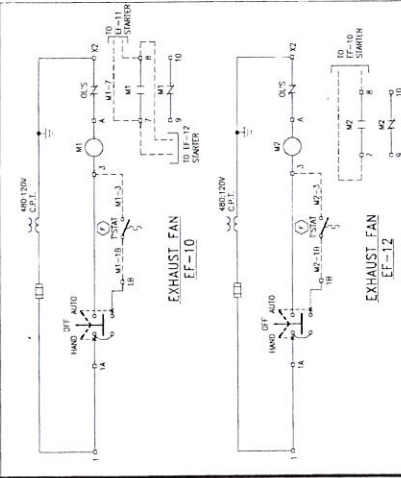
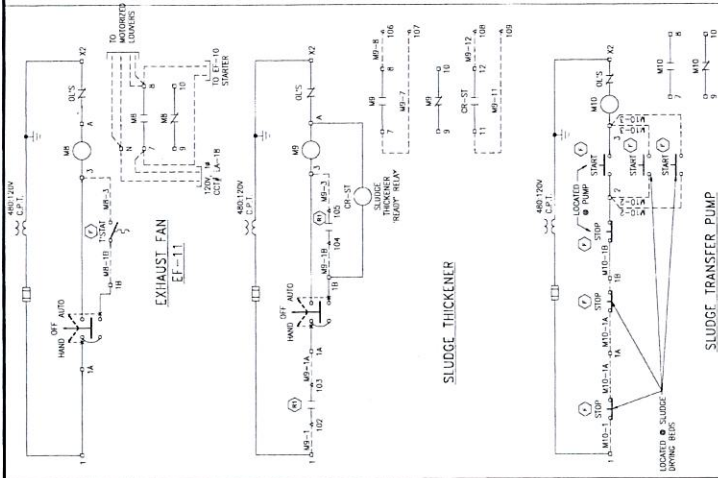
SCHEMATIC DIAGRAMS
SHEET 1

LAND LOT	SECTION	SUB	DATE	BY	SCALE
1	1	1	10/25/99	1	1"=10'
DISTRICT	SECTION	DATE	BY	SCALE	
1	1	10/25/99	1	1"=10'	
CITY	COUNTY	STATE	APPROVED	SHEET NO.	TOTAL
1	1	1	1	1	1

REV. NO.	DATE	DESCRIPTION
1	10/25/99	1

REV. NO.	DATE	DESCRIPTION
1	10/25/99	1

REV. NO.	DATE	DESCRIPTION
1	10/25/99	1



NOTES:

- THE SCHEMATIC DIAGRAM IS TYPICAL FOR THE PUMP SERVICE. THE WIRE NUMBER SHOWN IN THE SCHEMATIC SHALL BE USED IN ALL WIRING.
- CONTRACTOR SHALL AND ONE CONTACT IN THE "NO-CH" SWITCH IN THE PANEL. THE CONTRACTOR SHALL ALSO AND THE INDICATED TERMINAL AND PROVIDE THE INDICATED WIRING.
- INDICATED WIRING SHALL BE USED FROM THE INDICATED TERMINAL IN THE SCHEMATIC.

LEGEND

- TERMINAL IN REMOTE I/O UNIT #1 - 'X' 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

WIRE NUMBER DESIGNATION

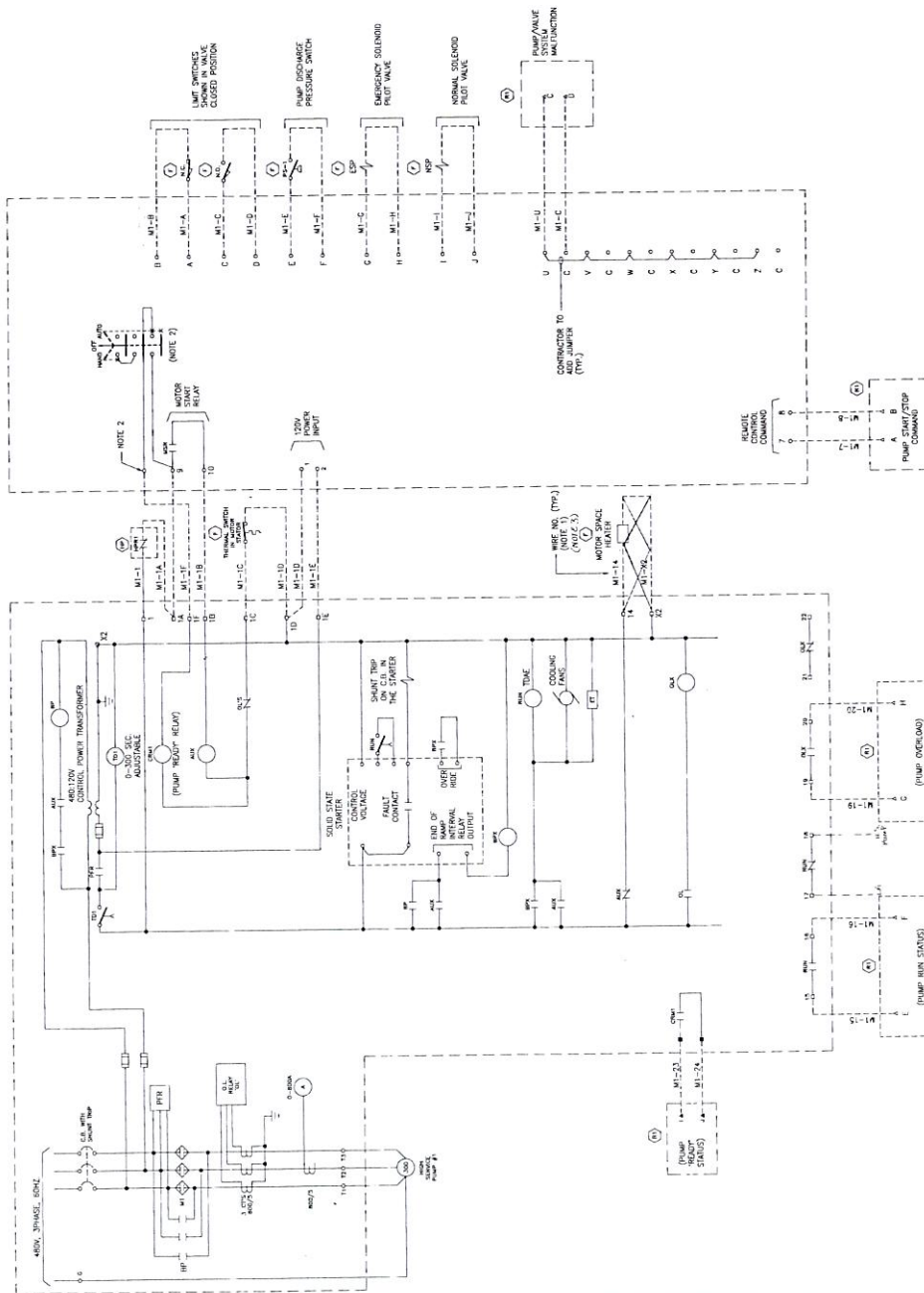
DENOTES FIELD WIRING

REVERSE CONTACTOR

LOCATION LEGEND

- LOCATED IN FIELD
- LOCATED IN REMOTE I/O UNIT #1
- LOCATED IN REMOTE I/O UNIT #2
- LOCATED IN REMOTE I/O UNIT #3
- LOCATED IN REMOTE I/O UNIT #4
- LOCATED IN REMOTE I/O UNIT #5
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- LOCATED IN REMOTE I/O UNIT #30

REMOTE I/O UNIT #1 TERMINATION TABLE			
TERMINAL	WSP #1	WSP #2	WSP #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
PUMP DISCHARGE VALVE CONTROL PANEL
HIGH SERVICE PUMP #1
(NOTE 1)

SCHEMATIC DIAGRAM
HIGH SERVICE PUMP #1
(NOTE 1)

Mallett & Associates, Inc.
115-B BRADFORD SQUARE FAYETTEVILLE, GEORGIA 30515
PHONE 770-778-3333
FAX 770-778-3333

SOUTH FAYETTE COUNTY WATER TREATMENT PLANT

for

PAYETTE COUNTY WATER SYSTEM

SHEET 3

E-9



REV. NO.	DATE	DESCRIPTION	BY	APP'D	STATE	GEORGIA
1	1/1/02	DESIGN	JMS		GA	
2		REVISION				
3		REVISION				
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MOTOR CONTROL CENTER
STANDARD NOMENCLATURE

A -ACCELERATING	ILT -INDICATING LIGHT	RVNR -REDUCED VOLTAGE NON-REVERSING
AC -ALTERNATING CURRENT	INST -INSTANTANEOUS	RVR -REDUCED VOLTAGE REVERSING
AM -AMMETER	INTL -INTERLOCK	S -START
AR -ALARM RELAY	J -JOG	SP -SPARE
AMP -AMPERE	LO -LOCKOUT	SPL -SPECIAL
AMS -AMMETER TRANSFER SWITCH	LR -LATCH RELAY	SR -SPRING RETURN
ANN -ANNUNCIATOR	LS -LIMIT SWITCH	SS -SLOW SPEED
ASW -AUXILIARY SWITCH	LSW -LINE SWITCH	SW -SWITCH
AT -AUTO TRANSFORMER	LT -LIGHT	T -TRANSFORMER
ATS -AUTOMATIC TRANSFER SWITCH	M -MAIN CONTACTOR	TB -TERMINAL BOARD
B -BRAKE	MC -MAINTAINED CONTACT	TC -TIME CLOSING
C -CLOSE	MCC -MOTOR CONTROL CENTER	TDAD -TIME DELAY AFTER DE-ENERGIZATION
CAP -CAPACITOR	MP -MAINTAINED POSITION	TDDE -TIME DELAY AFTER ENERGIZATION
CB -CIRCUIT BREAKER	MTR -MOTOR	TT -THERMOSTAT
CLF -CURRENT LIMITING FUSE	MTS -MANUAL TRANSFER SWITCH	TO -TIME OPEN
CLLT -CURRENT LIMITING REACTOR	N -NEUTRAL	TR -TIMING RELAY
CR -CONTROL RELAY	NC -NORMALLY CLOSED	U -UP
CT -CURRENT TRANSFORMER	NO -NORMALLY OPEN	UV -UNDERVOLTAGE
D -DOWN	OC -OVERCURRENT	V -VOLT
DB -DYNAMIC BRAKING	O -OPEN	VA -VOLT AMPERES
DC -DIRECT CURRENT	OL -OVERLOAD	VM -VOLTMETER
DSW -DOOR SWITCH	OS -OPERATOR'S STATION	VMS -VOLTMETER TRANSFER SWITCH
ES -EMERGENCY STOP	OTT -OVERTEMPERATURE THERMOSTAT	WHM -WATT HOUR METER
ETM -ELAPSED TIME METER	OV -OVERVOLTAGE	WHMD -WATT HOUR METER WITH DEMAND REGISTER
F -FORWARD	PB -PUSHBUTTON	WM -WATTMETER
FC -FIELD CONTACTOR	PF -POWER FACTOR	WR -WOUND ROTOR
FDR -FEEDER	PFM -POWER FACTOR METER	2S1WCH-TWO SPEED, ONE WINDING, CONSTANT HORSEPOWER
FLS -FLOAT SWITCH, FLOW SWITCH	PS -PRESSURE SWITCH	2S1WCT-TWO SPEED, ONE WINDING, CONSTANT TORQUE
FS -FAST SPEED	PT -POTENTIAL TRANSFORMER	2S1WVT-TWO SPEED, ONE WINDING, VARIABLE TORQUE
FU -FUSE	PTT -PUSH-TO-TEST	2S2WCH-TWO SPEED, TWO WINDING, CONSTANT HORSEPOWER
FVNR -FULL VOLTAGE NON-REVERSING	PW -PART WINDING	2S2WCT-TWO SPEED, TWO WINDING, CONSTANT TORQUE
FVNRV -FULL VOLTAGE NON-REVERSING (VACUUM)	PWNR -PART WINDING NON-REVERSING	2S2WVT-TWO SPEED, TWO WINDING, VARIABLE TORQUE
FVR -FULL VOLTAGE REVERSING	PWR -PART WINDING REVERSING	
GND -GROUND	R -REVERSE OR RUN	
H-O-A -HAND-OFF-AUTOMATIC	REC -RECTIFIER	
HP -HORSEPOWER	RHEO OR RH -RHEOSTAT	
HTR -HEATER	RES -RESISTOR	

 (S) DENOTES A SURGE SUPPRESSOR
EXAMPLE: ACROSS THE M COIL

[] -INDICATES CIRCUIT DESTINATION OF DEVICE (SHEET & LINE)

 -INDICATES PHYSICAL LOCATION OF DEVICE (UNIT LOCATION,
OPERATOR'S STATION, ETC.)

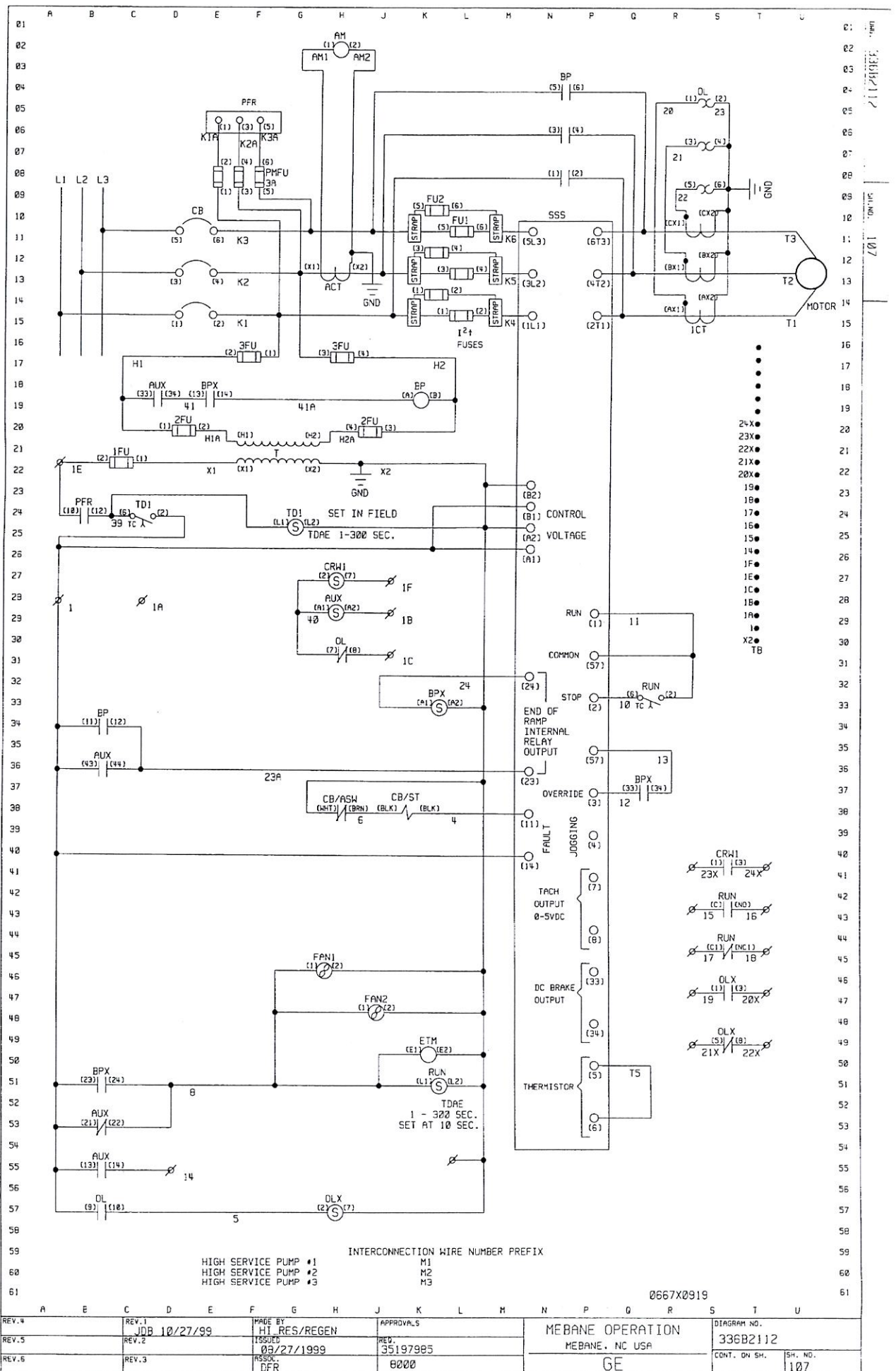
 -INDICATING LIGHT (LETTER
ABOVE DENOTES COLOR)
A-AMBER, B-BLUE, G-GREEN
R-RED, W-WHITE, C-CLEAR

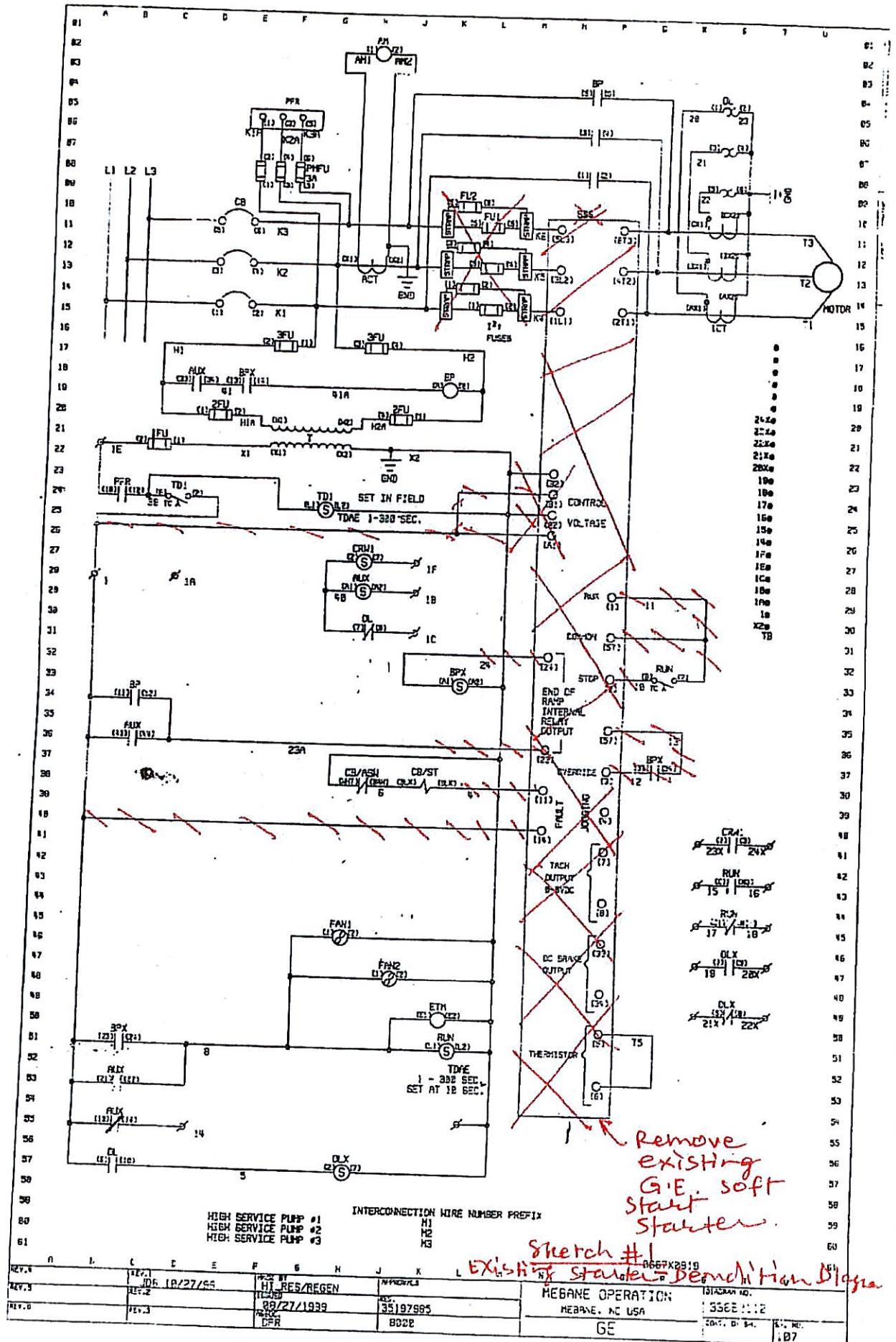
X -AUXILIARY DEVICE (MX, FX, ETC.)
* -MOUNTED REMOTE FROM MCC
/ - MCC TERMINAL BOARD POINT

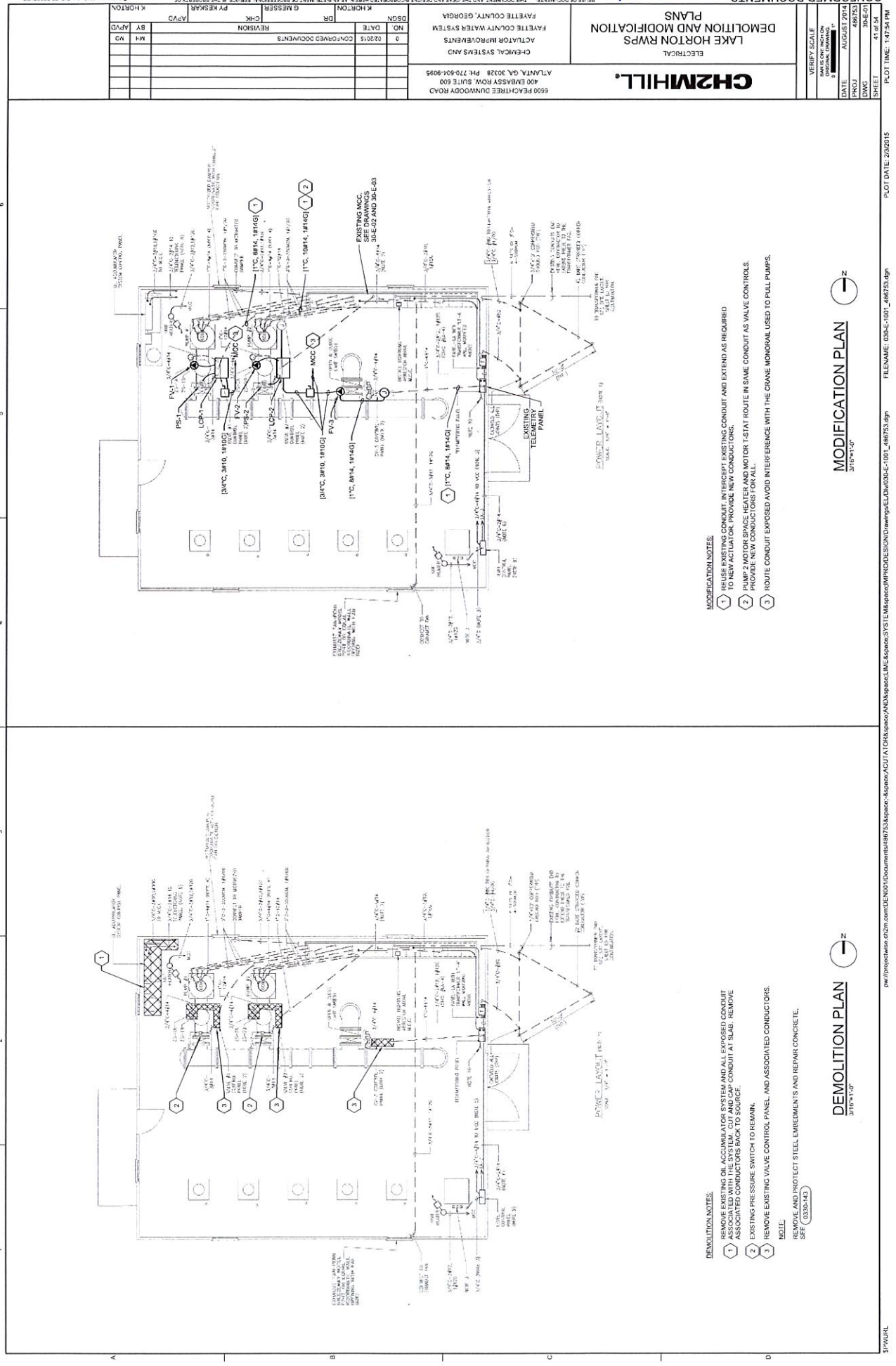
ELEMENTARY DIAGRAM SHEET NUMBERING:
ELEMENTARY SHEET NUMBERS PREFIXED WITH AN ALPHA REPRESENT STANDARD
DRAWINGS; SHEETS WITHOUT THE ALPHA REPRESENT NON-STANDARD DRAWINGS.

2667X0919

REV. 4	REV. 1	MADE BY HI RES/REGEN	APPROVALS	MEBANE OPERATION	DIAGRAM NO.
REV. 5	REV. 2	ISSUED 09/27/1999	REV. 35197985	MEBANE, NC USA	336B2112
REV. 6	REV. 3	ASSOC.	8000	GE	CONT. ON SH. AB
					SH. NO. AA





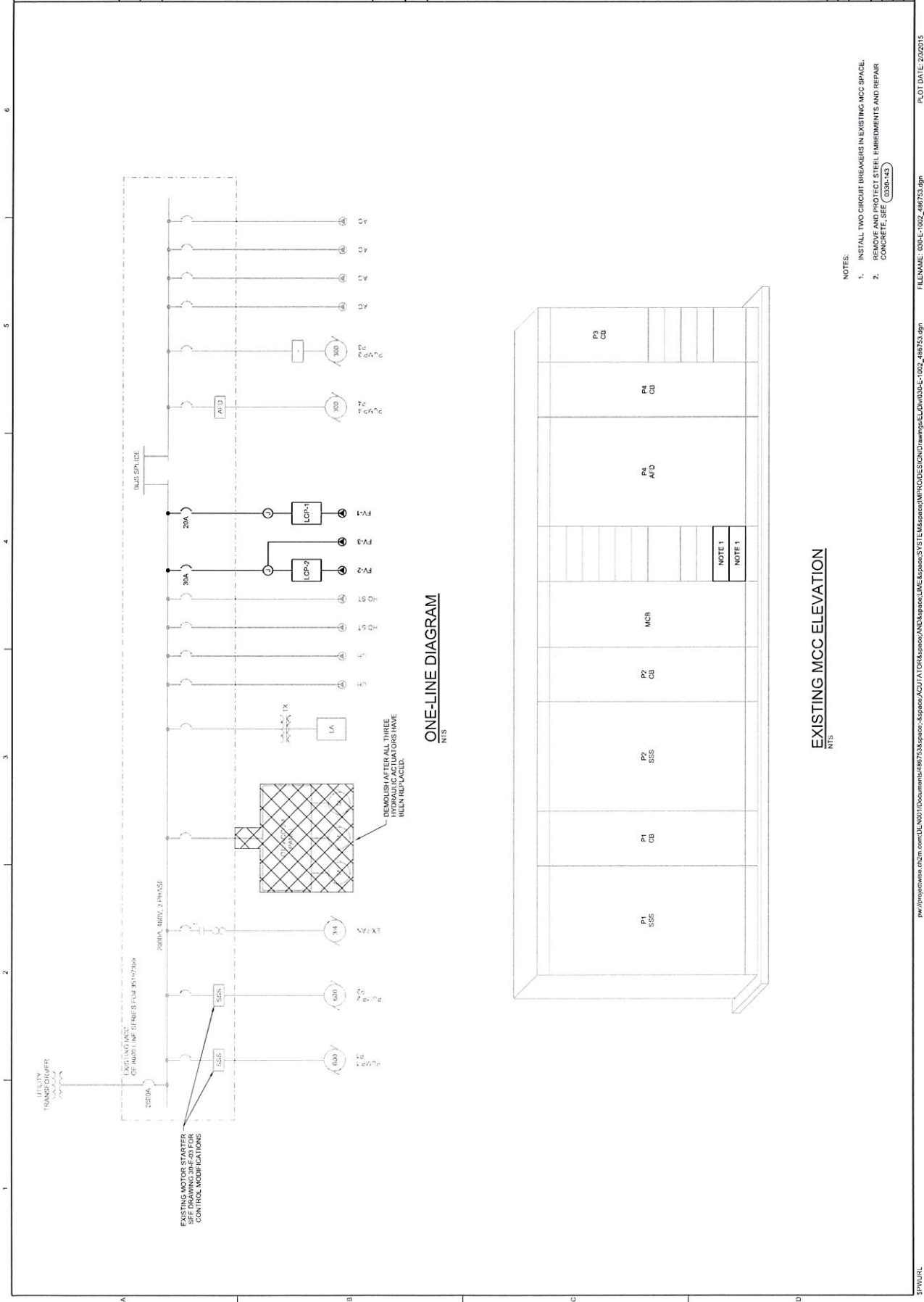


- DEMOLITION NOTES:**
- 1 REMOVE EXISTING OIL ACCUMULATOR SYSTEM AND ALL EXPOSED CONDUIT ASSOCIATED WITH THE SYSTEM. CUT AND CAP CONDUIT AT SLAB. REMOVE ASSOCIATED CONDUCTORS BACK TO SOURCE.
 - 2 EXISTING PRESSURE SWITCH TO REMAIN.
 - 3 REMOVE EXISTING VALVE CONTROL PANEL AND ASSOCIATED CONDUCTORS.
- MODIFICATION NOTES:**
- 1 REUSE EXISTING CONDUIT. INTERCEPT EXISTING CONDUIT AND EXTEND AS REQUIRED TO NEW ACTUATOR. PROVIDE NEW CONDUCTIONS.
 - 2 PUMP 2 MOTOR SPACE HEATER AND MOTOR 1 START ROUTE IN SAME CONDUIT AS VALVE CONTROL. PROVIDE NEW CONDUCTORS FOR ALL.
 - 3 ROUTE CONDUIT EXPOSED AVOID INTERFERENCE WITH THE CRANE MONORAIL USED TO PULL PUMPS.

DEMOLITION PLAN
3/16"=1'-0"

MODIFICATION PLAN
3/16"=1'-0"

CH2MHILL ELECTRICAL LAKE HORTON RWPS DEMOLITION AND MODIFICATION PLANS		6500 PEACHTREE DUNWOODY ROAD 400 EMERALD HILL, SUITE 600 ATLANTA, GA 30328 PH: 770-654-8955 FAYETTE COUNTY, GEORGIA	REVISIONS NO. DATE DESCRIPTION 0 02/2015 CONFORMED DOCUMENTS	K HORTON K HORTON G MESSER PYREKAR	K HORTON K HORTON G MESSER PYREKAR
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ONE-LINE DIAGRAM
NTS

EXISTING MCC ELEVATION
NTS

- NOTES:
1. INSTALL TWO CIRCUIT BREAKERS IN EXISTING MCC SPACE. REMOVE AND PROTECT STEEL EMBLEMENTS AND REPAIR CONCRETE. SEE 0300-143

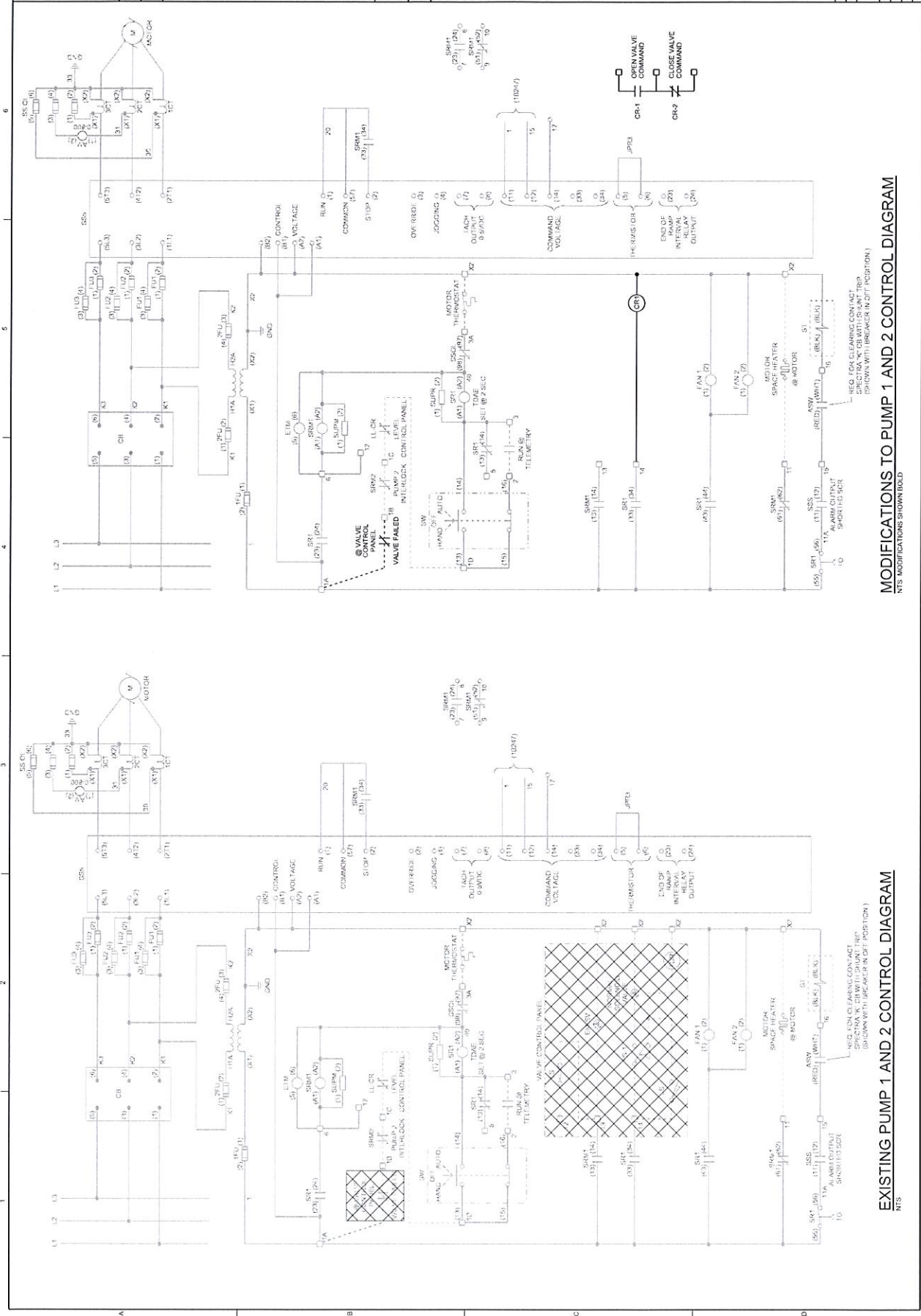
CH2MHILL
ELECTRICAL
LAKE HORTON RWPS
ONE LINE DIAGRAM

6500 PEACHTREE DUNWOODY ROAD
ATLANTA, GA 30328 PH: 770-504-8095
C-EMCAL SYSTEMS AND
ACTUATOR IMPROVEMENTS
FAVETTE COUNTY WATER SYSTEM
FAVETTE COUNTY, GEORGIA

REVISION
NO. DATE
1 02/2015 CONFIRMED DOCUMENTS
2 02/2015 CONFIRMED DOCUMENTS
3 02/2015 CONFIRMED DOCUMENTS
4 02/2015 CONFIRMED DOCUMENTS
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VERIFICATION SCALE
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PROJECT: 488753
DWG: 30-E-02
SHEET: 42 of 54
PLOT TIME: 147:59 PM

FILENAME: 030-E-1002_488753.dgn
PLOT DATE: 2/2/2015



EXISTING PUMP 1 AND 2 CONTROL DIAGRAM
 NTS

MODIFICATIONS TO PUMP 1 AND 2 CONTROL DIAGRAM
 NTS

CH2M HILL

6500 PEACHTREE DUNWOODY ROAD
 400 EMBASSY ROW, SUITE 600
 ATLANTA, GA 30328 PH: 770-604-8005

CHEMICAL SYSTEMS AND
 ACTUATOR MOVEMENTS
 FAYETTE COUNTY, GEORGIA

REVISIONS

NO.	DATE	DESCRIPTION
1	02/01/15	CONFORMED DOCUMENTS

DESIGN: K. HORTON
 CHECK: D. MESSER
 APPROVED: K. HORTON

CONFORMED DOCUMENTS

DATE: AUGUST 2014
 DRAWN: 30-E-03
 SHEET: 43 OF 54

PLOT DATE: 2/20/15
 PLOT TIME: 147:50 PM

