ABBREVIATIONS: N.E.C.-NATIONAL ELECTRICAL CODE, AFF-ABOVE FINISHED FLOOR

- EXISTING PANELBOARD
- WALL OUTLET, BRACKET FIXTURE, FIXTURE TYPE "A", CIRCUIT 1 (TYPICAL)
- CEILING OUTLET, LINEAR FIXTURE, SURFACE OR STEM MOUNTED
- WALL OUTLET, SWITCH, 3-WAY, 46" AFF OR SPECIAL HEIGHT AS NOTED
- LOCAL TOGGLE EQUIPMENT DISCONNECT SWITCH, 20A DEVICE, LOCATIONS W/CONCEALED CONDUIT TO BE FLUSH 2 GANG OUTLET W/S.S. PLATE, OTHER LOCATIONS TO BE 4x4" J-BOX W/ RAISED DEVICE COVER. LOCATE TO COMPLY WITH NEC AND LOCAL AUTHORITIES
- HOME RUN 2#2-1/2" C.#/#, 3#2-1/2"C. ETC. AS PER N.E.C. EQUIPMENT GROUNDING CONDUCTOR TO BE PULLED IN ALL RACEWAYS IS NOT INDICATED BY A SLASH MARK
- BRANCH CIRCUIT CONCEALED IN WALL OR CEILING
- BRANCH CIRCUIT EXPOSED ON WALL OR CEILING
- EMERGENCY BRANCH CIRCUIT
- MOTOR STARTER, FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL
- CONNECTION TO MOTOR LOAD, H.P. AS INDICATED.
- CONNECTION TO FRACTIONAL H.P. MOTOR
- WALL J-BOX
- RELAY
- NON-FUSED DISCONNECT SWITCH, TYPE HD
- VARIABLE FREQUENCY DRIVE, FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL
- PANELBOARD

NOTE:

- HEIGHTS ARE CENTERLINE UNLESS NOTED OTHERWISE

1 E001 ELECTRICAL SYMBOLS LIST

NO SCALE

PANEL 'PP-ACB'			
DESCRIPTION: 277/480V, 3ø, 4W, 800A, MLO, TOP, SURFACE, 42K AIC, 120 KA INTEGRAL SPD, PERMANENT PAD LOCK PROVISIONS FOR ALL BREAKERS, NAMEPLATE FOR EACH DEVICE			
CIRCUIT DESCRIPTION	BRKR.	BRKR.	CIRCUIT DESCRIPTION
HEAT TRACE 1	20/1		30/1 PROVISION
HEAT TRACE 2	20/1		30/1 PROVISION
SPARE	20/1		30/1 PROVISION
P3 & P4 CITY HALL/ANNEX	20/3	15/3	P11 & P12 CHILLER 1
P5 & P6 ANNEX 2	20/3	15/3	P13 & P14 HOT WATER
P7 & P8 ANNEX 3	15/3	25/3	COOLING TOWER 2 FAN
COOLING TOWER 1 FAN	25/3	15/3	COOLING TOWER 1 SUMP HEATER
COOLING TOWER 2 SUMP HEATER	15/3	15/3	P1 & P2 COMPUTER ROOM
P-16 TOWER 1 PUMP	25/3	25/3	P-15 TOWER 2 PUMP
P9 & P10 CHILLER 2	15/3	20/3	SPARE
SPARE	25/3	15/3	SPARE
60/3 PROVISION			60/3 PROVISION
200/3 PROVISION			200/3 PROVISION
CHILLER 1	250/3	250/3	CHILLER 2

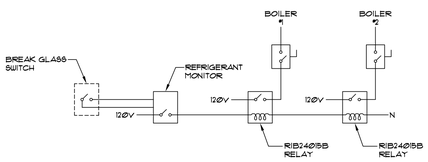
2 E001 PANEL 'PP-ACB' SCHEDULE

NO SCALE

PANEL 'RP-MB'					
DESCRIPTION: 120/208V, 3ø, 4W, 100A, MLO, TOP, SURFACE, 10K AIC, 120 KA INTEGRAL SPD					
CIRCUIT DESCRIPTION	NO.	BRKR.	BRKR.	NO.	CIRCUIT DESCRIPTION
BOILER 1 CONTROL	1	20/1	20/1	2	REFRIGERANT MONITOR
BOILER 1 PUMP	3	20/1	20/1	4	TOWER FILTER 1
BOILER 2 CONTROL	5	20/1	20/1	6	TOWER FILTER 2
BOILER 2 PUMP	7	20/1	20/1	8	SPARE
SPARE	9	20/1	20/1	10	SPARE
SPARE	11	20/1	20/1	12	SPARE
30/1 PROVISION	13			14	30/1 PROVISION
30/1 PROVISION	15			16	30/1 PROVISION
30/1 PROVISION	17			18	30/1 PROVISION
30/1 PROVISION	19			20	30/1 PROVISION
30/1 PROVISION	21			22	30/1 PROVISION
30/1 PROVISION	23			24	30/1 PROVISION
30/1 PROVISION	25			26	30/1 PROVISION
30/1 PROVISION	27			28	30/1 PROVISION
30/1 PROVISION	29			30	30/1 PROVISION

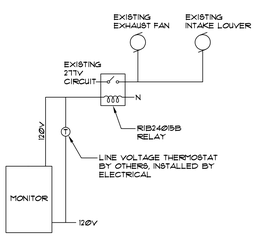
3 E001 PANEL 'RP-MB' SCHEDULE

NO SCALE



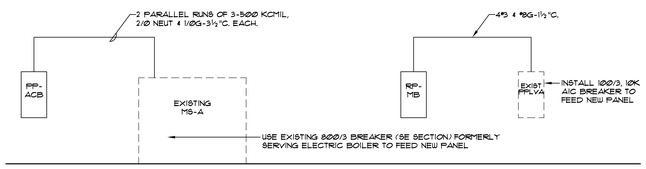
4 E001 EMERGENCY BOILER & CHILLER SHUTDOWN SCHEMATIC

NO SCALE



5 E001 REFRIGERANT MONITOR SCHEMATIC

NO SCALE



6 E001 PARTIAL RISER DIAGRAM

NO SCALE

SYMBOL	MANUFACTURER	CATALOG NUMBER	LAMP QTY.	LAMP TYPE	LAMP WATTS	MOUNTING	REMARKS
A	TEXAS FLUORESCENTS	848LF28U3200LDMV35K-OS	-	LED	28	CEILING SUSPENDED	1
AE	TEXAS FLUORESCENTS	848LF28U3200LDMV35K-OS-GTD	-	LED	28	CEILING SUSPENDED	1,2
B	TEXAS FLUORESCENTS	5S6LF57U6400LDMV35K-OS	-	LED	56	CEILING SUSPENDED	1
X	MULE	MXARU	-	LED	5	CEILING SUSPENDED	

REMARKS:

1. END MOUNTED OCCUPANCY SENSOR
2. GENERATOR TRANSFER DEVICE

7 E001 LIGHT FIXTURE SCHEDULE

NO SCALE

STATE OF ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 18245 RANDALL H. SMITH

7/20/16 #462

REVISIONS		
NO.	DATE	DESCRIPTION

TUSCALOOSA CITY HALL AND ANNEX
CHILLED WATER CENTRAL PLANT UPGRADE, CITY PROJECT #A16-0801
AT
2201 UNIVERSITY BOULEVARD
TUSCALOOSA, AL 35401

Smith, Stegall & associates p.c.
Consulting Engineers
2120 8th Street
Tuscaloosa, Alabama 35401
Phone/Fax 205 345 4402

DRAWINGS ARE THE PROPERTY OF ENGINEER, AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT EXPRESSED PERMISSION.

JOB NUMBER: 1462

DATE: 7/20/16

DRAWN BY: ZWF

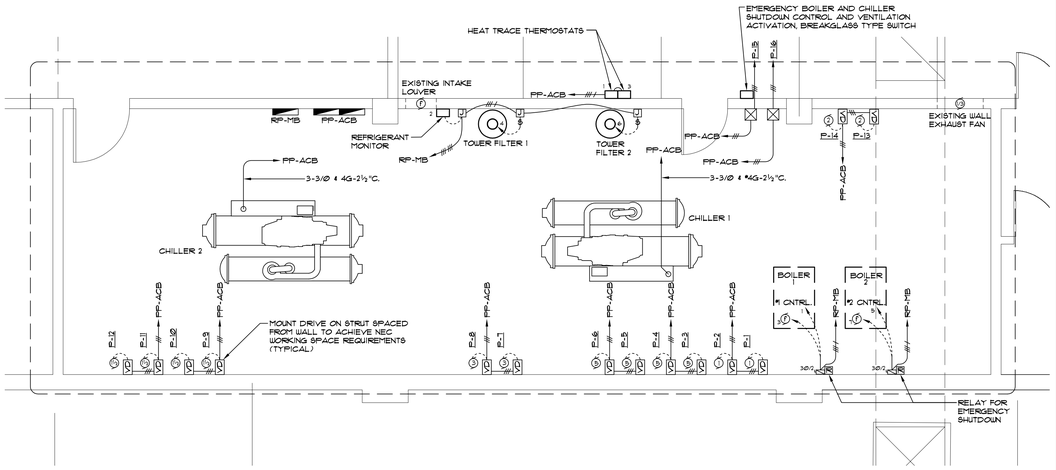
CHECKED BY: RHS

ELECTRICAL SYMBOLS, RISER, & SCHEDULES

E101

- REMOVE ELECTRICAL WORK MADE OBSOLETE BY THIS PROJECT.

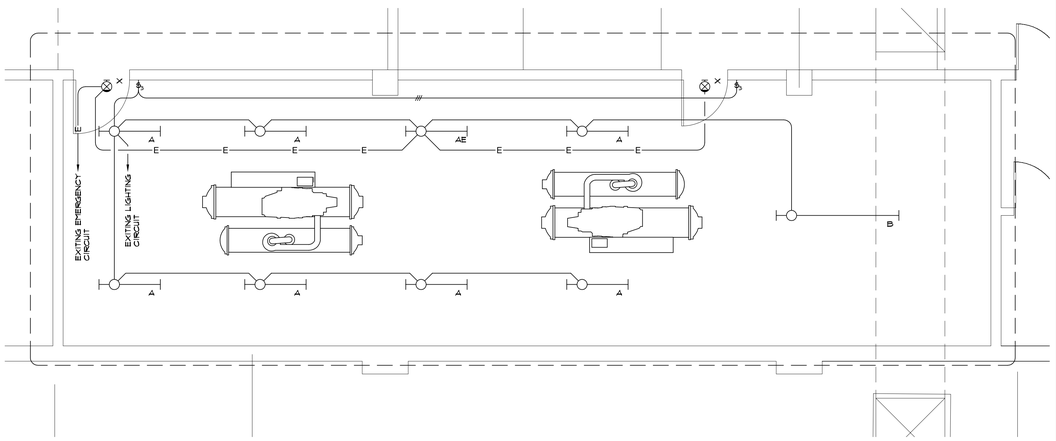
6 / E101 POWER WIRING NOTE
NO SCALE



5 / E101 ENLARGED MECHANICAL ROOM POWER WIRING PLAN
1/4" = 1'-0"

- SUSPEND LIGHT FIXTURES BELOW PIPING. LOCATE TO AVOID VERTICAL PIPING. COORDINATE WITH MECHANICAL CONTRACTOR.

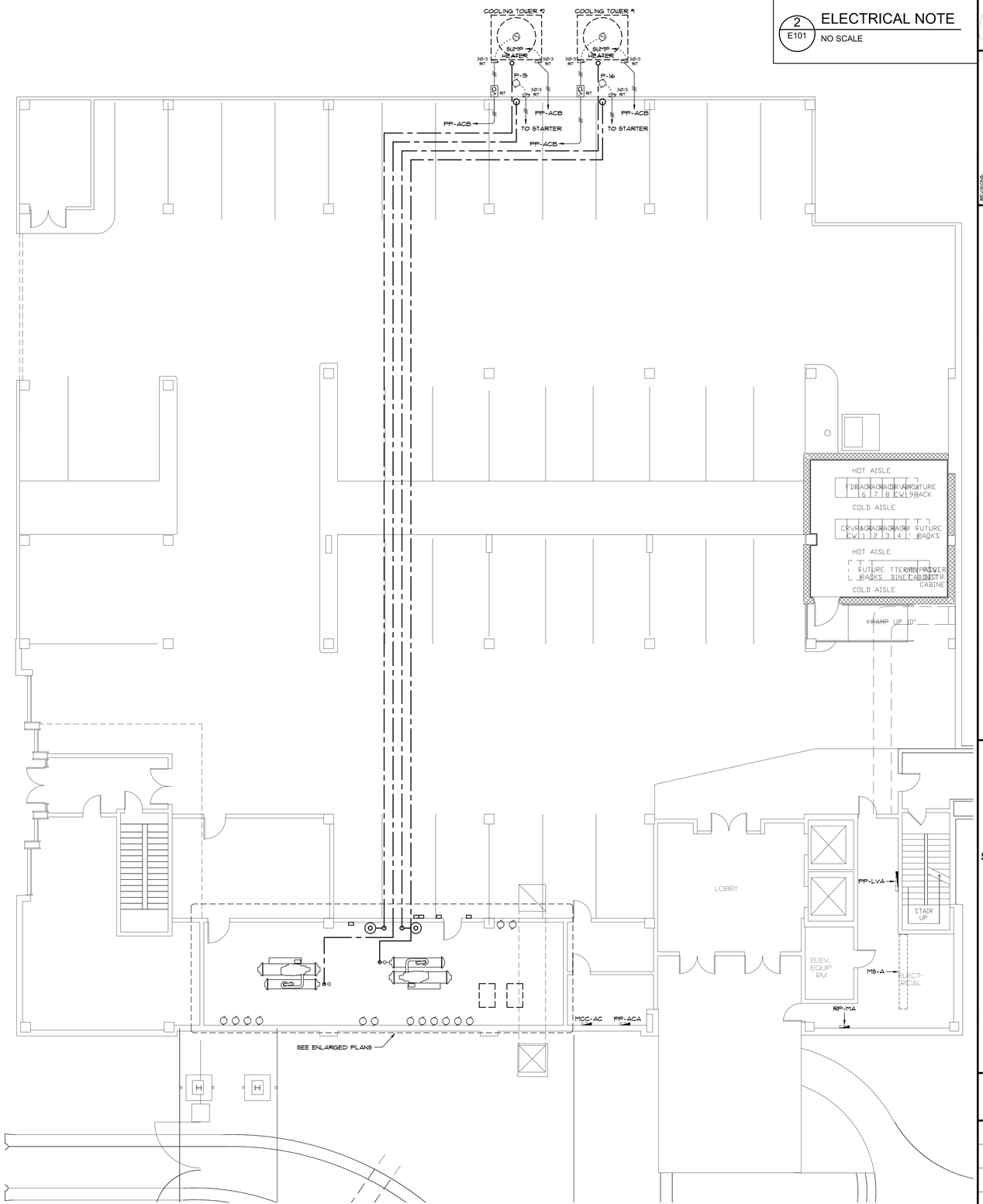
4 / E101 LIGHTING NOTE
NO SCALE



3 / E101 ENLARGED MECHANICAL ROOM LIGHTING PLAN
1/4" = 1'-0"

- REMOVE ALL CIRCUITS BACK TO POINT OF ORIGIN TO EQUIPMENT MADE OBSOLETE BY THIS UPGRADE.

2 / E101 ELECTRICAL NOTE
NO SCALE



1 / E101 GROUND FLOOR MECHANICAL ROOM ELECTRICAL PLAN
1/8" = 1'-0"

STATE OF ALABAMA REGISTERED PROFESSIONAL ENGINEER NO. 13245 RANDALL H. SMITH
7/20/16 #1462

REVISIONS:		
NO.	DATE	DESCRIPTION

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CHECKED BY: RHS

ELECTRICAL PLAN

E101
SHEET 8 OF 8