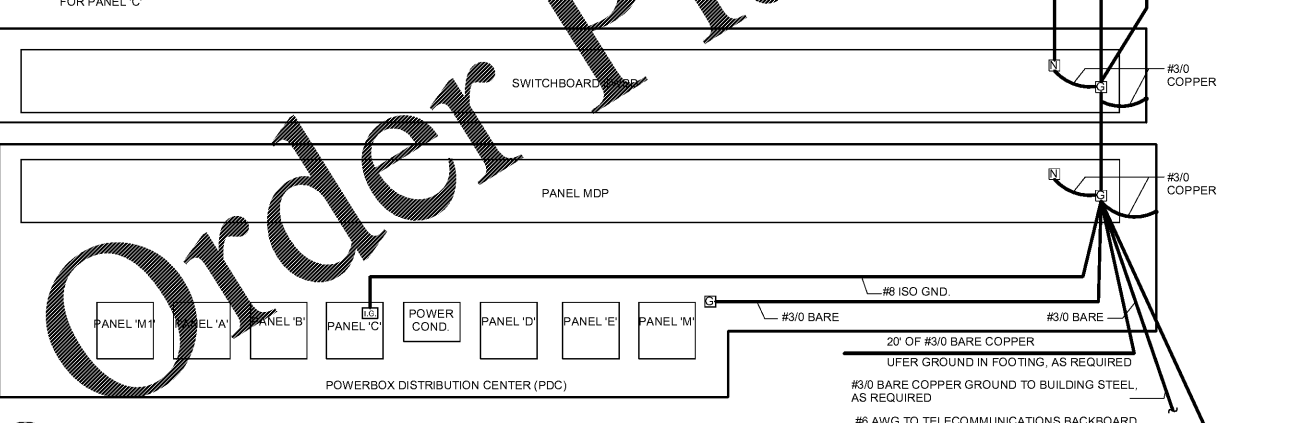
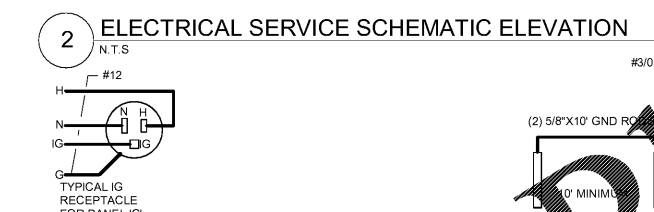
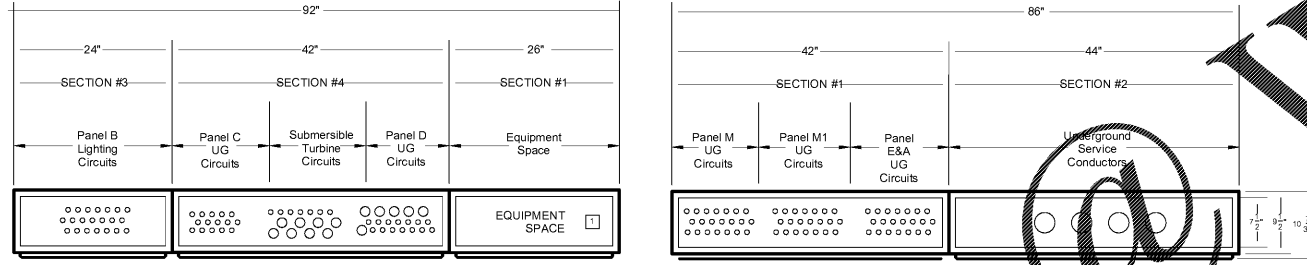


MAIN DISTRIBUTION PANEL: MDP									
Location: DRY GOODS RECEIVING 109		Volts: 120/208 Wye		A.I.C. Rating: 65,000 SERIES RATED					
Supply From:		Phase: 3		Mains Type: MCB 100% RATED					
Mounting: PRE-FABRICATED		Wires: 4		Mains Rating: 1200 A					
Enclosure: PRE-FABRICATED				MCB Rating: 1200 A					
Notes	CKT	Circuit Description	Circuit Information	Trip	Poles	A	B	C	
	1								
CT	2	RTU-1	3#1 & 1#6GND, IN 1-1/2" CONDUIT	110 A	3	12129 VA	12129 VA	12129 VA	
	3								
CT	4	RTU-2	3#1 & 1#6GND, IN 1-1/2" CONDUIT	110 A	3	12129 VA	12129 VA	12129 VA	
	5								
	6								
CT	7	RTU-3	3#6 & 1#8GND, IN 1" CONDUIT	60 A	3	6366 VA	6366 VA	6366 VA	
	8								
	9								
	10	SPACE	--	--	--	0 VA	0 VA	0 VA	
	11	SPACE	--	--	--	0 VA	0 VA	0 VA	
	12	SPACE	--	--	--	0 VA	0 VA	0 VA	
	13								
	14	PROVISION FOR LIFT STATION		100 A	3	0 VA	0 VA	0 VA	
	15								
	16								
	17	SPD	3#10 & 1#6GND, IN 3" CONDUIT	100 A	3	0 VA	0 VA	0 VA	
	18								
P	19	PANEL M	4#3/0 & 1#6GND, INTERNALLY PREWIRED FACTORY INSTALLED	200 A	3	19394 VA	19064 VA	20186 VA	
P	20	PANEL M1	4#3/0 & 1#6GND, INTERNALLY PREWIRED FACTORY INSTALLED	200 A	3	19786 VA	19171 VA	17100 VA	
P	21	PANEL M2	4#3/0 & 1#6GND, INTERNALLY PREWIRED FACTORY INSTALLED	200 A	3	6437 VA	8854 VA	6992 VA	
	22								
	23								
	24								
	25								
P	26	PANEL M3	4#3/0 & 1#6GND, INTERNALLY PREWIRED FACTORY INSTALLED	200 A	3	8373 VA	5649 VA	6595 VA	
	27								
	28								
	29	PANEL B	4#3/0 & 1#6GND, INTERNALLY PREWIRED FACTORY INSTALLED	200 A	3	13025 VA	10453 VA	10513 VA	
	30								
	31								
	32	PANEL D	4#3/0 & 1#6GND, INTERNALLY PREWIRED FACTORY INSTALLED	200 A	3	22206 VA	21000 VA	18169 VA	
	33								
	34	PANEL E	4#3/0 & 1#6GND, INTERNALLY PREWIRED FACTORY INSTALLED	200 A	3	0 VA	0 VA	0 VA	
	35								
	36								
	37								
	38	GENERATOR CONNECTION BOX	(2) SETS 4#350KCMIL & 1#20GND, IN 3" CONDUIT (KIRK KEY INTERLOCK)	600 A	3	0 VA	0 VA	0 VA	
	39								
	40	SPACE	--	--	--	0 VA	0 VA	0 VA	
	41	SPACE	--	--	--	0 VA	0 VA	0 VA	
	42								
	43	MAIN BREAKER	REFER TO ELECTRICAL SERVICE SCHEMATIC ELEVATION FOR SERVICE CONDUCTORS	1200 A	3	0 VA	0 VA	0 VA	
	44								
	45	ERMS SMART CELL	--	--	--	0 VA	0 VA	0 VA	
	46	ERMS SMART CELL	--	--	--	0 VA	0 VA	0 VA	
	47	ERMS SMART CELL	--	--	--	0 VA	0 VA	0 VA	
	48	ERMS SMART CELL	--	--	--	0 VA	0 VA	0 VA	
	49	SPACE	--	--	--	0 VA	0 VA	0 VA	
	50	SPACE	--	--	--	0 VA	0 VA	0 VA	
	51	SPACE	--	--	--	0 VA	0 VA	0 VA	
	52	SPACE	--	--	--	0 VA	0 VA	0 VA	
	53	SPACE	--	--	--	0 VA	0 VA	0 VA	
	54	SPACE	--	--	--	0 VA	0 VA	0 VA	
						Total Load:	119843 VA	114812 VA	110177 VA
						Total Amps:	1005 A	963 A	918 A

- KEYNOTES**
- ROUTE LOW VOLTAGE SPEAKER WIRES THROUGH 26" WIREWAY UP TO LOW VOLTAGE DISCONNECT.
  - ROUTE 3#10 & 1#10G IN 3/4" C FROM PANEL D UP TO VARIABLE FREQUENCY CONTROLLER (VFC). ROUTE 3#10 & 1#10G IN 3/4" C FROM VFC TO SUBMERSIBLE TURBINE PUMPS.

**TYPICAL UNDERGROUND CONDUIT ENTRY LOCATIONS**  
(Conduits shown are typical. Actual requirements may vary)



- NOTES FOR THIS DRAWING**
- THE POWERWALL DISTRIBUTION CENTER (PDC) IS INSTALLED BY THE ELECTRICAL CONTRACTOR AND FURNISHED BY THE OWNER. THIS CONTROL PANEL INCLUDES ALL SQUARE 'D' PANELBOARDS, BREAKERS, LIGHTING CONTRACTORS, CONTROLS, DISPENSER, AND SUBMERSIBLE PUMP CONTROLS. PILOT LIGHTS, SWITCHES, TERMINAL STRIPS, AND PANEL 'C' POWER CONDITIONER ARE PREINSTALLED AND INTERNALLY PREWIRED ALL CIRCUIT BREAKERS, LIGHTING CONTROLS WITH BYPASS SWITCHES, DISPENSER AND SUBMERSIBLE PUMP CONTROLS, AND REMOTE EMERGENCY STOP CONTROLS ARE PREWIRED TO TERMINAL STRIPS AT THE TOP OR BOTTOM OF THE PDC. ALL NEUTRAL BARS AND GROUND BARS ARE FURNISHED WITH THE SYSTEM. A SPECIAL ISOLATED GROUND BAR IS FURNISHED WITH PANEL 'C'. REFER TO PDC SHOP DRAWINGS FOR TERMINATION POINTS.
  - CASHIER CONTROL CENTER (CONTAINS EMERGENCY STOPS, RESET SWITCH, ALARMS AND LIGHTING 'OVERRIDE SWITCH'), AUXILIARY EMERGENCY STOPS, AND LIGHT SENSOR ARE FURNISHED WITH PDC, INSTALLED BY THE ELECTRICAL CONTRACTOR.
  - ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE SHOP DRAWINGS MUST IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
  - ELECTRICAL CONTRACTOR SHALL BALANCE THE LOAD ON EACH PHASE LEG USING THE UNUSED 'AREA LIGHTS', 'CANOPY LIGHTS', AND BUILDING SIGNAGE CIRCUITS (STAYING WITHIN SIMILAR BUILDING FUNCTIONS).
  - DISCONNECT SWITCHES ARE NOTED AS SIZE/FUSES (EXAMPLE: 60/40 IS 60 AMP FUSED DISCONNECT SWITCH WITH 40 AMP FUSES).
  - WIRE SIZE OF BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG, BUT NO LESS THAN PERMITTED BY THE NEC FOR SPECIFIED OVERCURRENT PROTECTION.
  - ALL FEEDER CONDUCTORS NOT INTERNAL TO THE INTEGRATED PACKAGE SHOULD BE SHOWN AS DASHED, AND WIRING SHOWN DASHED IS NOT INSTALLED BY POWERWALL, AND SIZED PER NEC, BASE ON ORIGINATING BREAKER SEE APPROPRIATE PANELBOARD SCHEDULES.
  - THE PDC IS UL LISTED, STANDARD ASSEMBLY IS 65,000 AIC SERIES RATED WITH FEEDER BREAKER. EC SHALL VERIFY AVAILABLE FAULT CURRENT AND SERVICE CHARACTERISTICS WITH LOCAL ELECTRIC UTILITY COMPANY PRIOR TO ORDERING PDC.
  - THE PDC WILL BE SHIPPED IN SECTIONS ON A PALLET & BOLTED TOGETHER AT THE JOBSITE. COORDINATE WITH THE GENERAL CONTRACTOR.
  - ELECTRICAL CONTRACTOR MUST TERMINATE ALL CONTROLLED BRANCH CIRCUITS FOR LIGHTING AND FUEL CABINET. BRANCH CIRCUITS FOR UNCONTROLLED LOADS CONNECT DIRECTLY TO RESPECTIVE CIRCUIT EQUIPMENT & CONTROL WIRING AT THE TERMINAL STRIPS AT THE TOP OR BOTTOM OF THE POWERWALL BREAKERS IN THE PANELS.
  - LOCATE OUTDOOR LIGHT SENSOR ON ROOF FACING NORTH. LIGHT SENSOR CONTROL WIRING IS FURNISHED AS PART OF THE POWERWALL PACKAGE. AIM SENSOR EYE AWAY FROM ARTIFICIAL LIGHT SOURCES. INSTALL IN ACCORDANCE WITH SHOP DRAWINGS.
  - SUBMERSIBLE PUMP POWER WIRING MUST BE #10AWG. A SEPARATE #10 AWG GROUNDING CONDUCTOR MUST BE RUN FROM EACH PUMP TO PANEL 'D' GROUND BAR.
  - CIRCUIT BREAKERS FOR FLOOR RECEPTACLES SHALL BE GF.
  - ALL BRANCH CIRCUITS FOR PANEL 'C' LOADS SHALL INCLUDE A GROUNDING CONDUCTOR AND AN ISOLATED GROUNDING CONDUCTOR, WHICH SHALL BE CONNECTED TO THE PANEL 'C' ISOLATED GROUND BAR.
  - A VARIETY OF MAIN GROUNDING METHODS ARE INDICATED. METHOD(S) SHALL BE IN ACCORDANCE WITH LOCAL REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PERFORM A FALL OF POTENTIAL TEST, IN ACCORDANCE WITH IEEE STD. 81, TO ENSURE A MAXIMUM EARTH GROUND RESISTANCE OF 25 OHMS AS REQUIRED BY THE NEC.
  - PROVIDE 3/4" RIGID CONDUIT FROM PDC TO EACH SUBMERSIBLE TURBINE PUMP. PROVIDE WIRING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - PROVIDE ALL WIRING FOR TANK MONITORING SYSTEM. WIRING SHALL BE CONTINUOUS WITH NO SPLICES. DO NOT SHARE CONDUITS WITH OTHER WIRING SYSTEMS.
  - (1) 3/4" RIGID CONDUIT TO EACH TANK GAUGE MANHOLE
  - (1) 3/4" RIGID CONDUIT TO ALL INTERSTITIAL MONITORS
  - (1) 1" RIGID CONDUIT TO EACH STP MANHOLE IN TANK SLAB
  - PROVIDE ALL WIRING FOR DISTRIBUTION BOX AND GAS CONSOLE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - E.C. SHALL PROVIDE LABELS ON ELECTRICAL EQUIPMENT PER NEC 110.16 AND LOCAL JURISDICTION REQUIREMENTS.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE AN OUTDOOR EMERGENCY BUTTLE TO KILL ALL BUILDING POWER. EC SHALL PROVIDE SHUNT TRIP KIT MA1-1021 FOR 1200SP MAIN BREAKER. PROVIDE WEATHERPROOF EMERGENCY REMOTE CUTOFF SWITCH KNOX #KS-2P SPST KEYPED PER LOCAL FIRE DEPARTMENT REQUIREMENTS. POWER FROM CKT B-40. PROVIDE PERMANENT SIGN 'EMERGENCY POWER DISCONNECT 1 OF 1'. LOCATE ON OUTSIDE OF BUILDING PER AUTHORITIES' DIRECTION.
  - PROVIDE KIRK-KEY INTERLOCK BETWEEN MAIN BREAKER AND 600A SPARE (GENERATOR) BREAKER. ONLY ONE BREAKER SHALL BE CAPABLE OF BEING ENERGIZED AT ANY GIVEN TIME.
  - WIRING OF HVAC UNITS POWER, SMOKE DETECTION, AND CONTROL WIRING BY ELECTRICAL CONTRACTOR.

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**ISSUE/REVISION RECORD**

DATE	DESCRIPTION
05/04/18	ISSUED FOR PERMIT

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**PROJECT NAME**  
**PEACHTREE PKWY & ENG.**

**PEACHTREE CORNERS**  
5780 PEACHTREE PKWY  
PEACHTREE CORNERS, GA  
RACETRAC STORE NUMBER

**1201**  
PROTOTYPE SERIES 5.5K 2.0  
2018 RH MO  
PLAN MODIFICATION NOTICE

**SPB NO. DATE**  
STANDARD PLAN BULLETINS (SPB) MODIFY THE PROTOTYPE SERIES SET NOTED ABOVE. THE LISTED SPB REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PROTOTYPE SERIES SET AT ORIGINAL RELEASE. THE ISSUE/REVISION RECORD COLUMN ABOVE LISTS ANY REVISIONS OR SPB INCORPORATED IN THIS SET AFTER THE ORIGINAL RELEASE. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ANY SUBSEQUENT BULLETINS NOT INCORPORATED HEREIN.

**PROFESSIONAL SEAL**  
GEORGIA REGISTERED PROFESSIONAL ENGINEER  
WILLIAM S. GADBY, JR.  
09/04/18

**PROJECT NUMBER**  
18.703.00

**SHEET TITLE**  
**ELECTRICAL RISER DIAGRAM**

**SHEET NUMBER**  
**E410**  
ISSUED FOR PERMIT