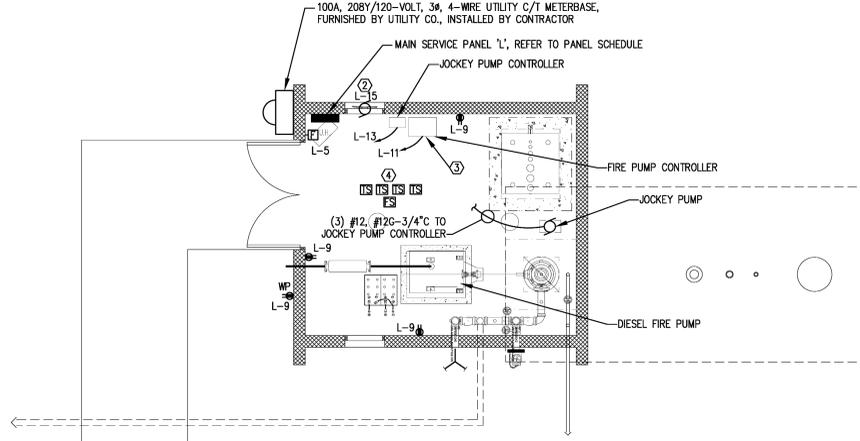


**FIRE PUMP HOUSE LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"

**KEY NOTES**

- ① PROVIDE A LINE VOLTAGE PHOTOCELL FOR CONTROL OF TYPE KE EXTERIOR LIGHTS. MOUNT PHOTOCELL ON ROOF.
- ② EXHAUST FAN CONTROLLED BY RELAY IN FIRE PUMP CONTROLLER TO ENABLE FAN START UPON FIRE PUMP STARTING.
- ③ PROVIDE FIRE ALARM MONITOR MODULES FOR THE FIRE PUMP CONTROLLER TO MONITOR "PUMP RUNNING", "POWER LOSS TO PUMP CONTROLLER", "PUMP CONTROLLER PHASE REVERSAL" AND "LOSS OF PHASE" AT THE PUMP CONTROLLER. COMPLY WITH NFPA-20. CONNECT FIRE ALARM DEVICES TO FIRE ALARM CONTROL PANEL LOCATED IN THE COMMUNITY CENTER BUILDING MAIN ENTRY VESTIBULE 101. RUN ALL WIRING IN CONDUIT.
- ④ PROVIDE (4) TAMPER SWITCHES AND (1) FLOW SWITCH IN THE FIRE PUMPHOUSE. PROVIDE ADDRESSABLE FIRE ALARM MONITOR MODULES FOR EACH TAMPER AND FLOW SWITCH. CONNECT EACH DEVICE TO FIRE ALARM CONTROL PANEL IN COMMUNITY CENTER BUILDING. RUN ALL WIRING IN CONDUIT.



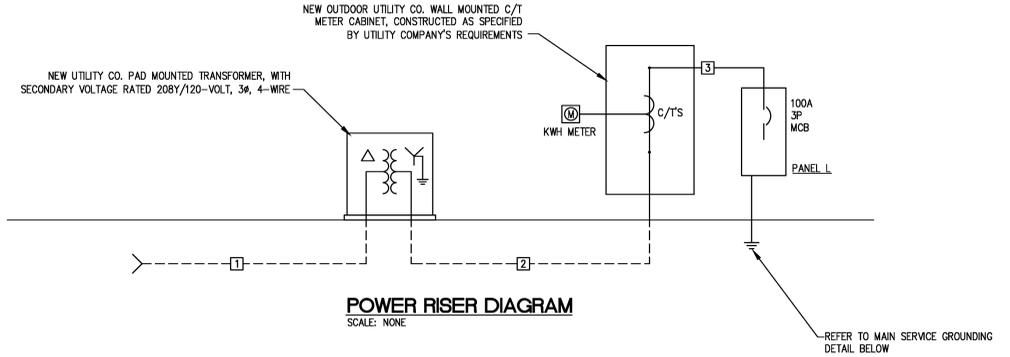
**FIRE PUMP HOUSE POWER PLAN**  
SCALE: 1/4" = 1'-0"

PANELBOARD "L" SCHEDULE																		
100A, 120/208V, 3Ø, 4W, SN, GND BUS, SURFACE MOUNTED, SERVICE ENTRANCE RATED 100A MAIN BREAKER, VERIFY AVAILABLE FAULT CURRENT WITH UTILITY CO. AND PROVIDE FULLY RATED PANEL																		
LOAD SERVED	LOAD			WIRE SIZE	BKR TRIP	POLE	CKT NO	PHASE			CKT NO	POLE	BKR TRIP	WIRE SIZE	LOAD			LOAD SERVED
	A	B	C					A	B	C					A	B	C	
LIGHTING-INTERIOR PUMP HOUSE	0.24			12	20	1	1				2	1	20	12	X			SPARE
LIGHTING - EXTERIOR		0.10		12	20	1	3				4	1	20	12		X		SPARE
ELECTRIC UNIT HEATER			2.50	10	30	2	5				6	1	20	12			X	SPARE
RCPT.-PUMP HOUSE	0.54			12	20	1	9				7	1	20	X				SPARE
FIRE PUMP CONTROLLER ①		0.50		12	20	1	11				10	1	20	X				SPARE
SPARE	X			12	20	1	13				12	1	20	X				SPARE
EXHAUST FAN		0.53		12	20	1	15				14	1	20	X				SPARE
JOCKEY PUMP ①				12	20	3	17				16	1	20	X				SPARE
SPARE							19				18	1	20	X				SPARE
SPARE		0.39					21				20	1	20	X				SPARE
SPARE				X	12	20	1	23			22	1	20	X				SPARE
SPARE											24	1	20	X				SPARE

NOTES: ① RUN WIRING IN RIGID METAL CONDUIT.

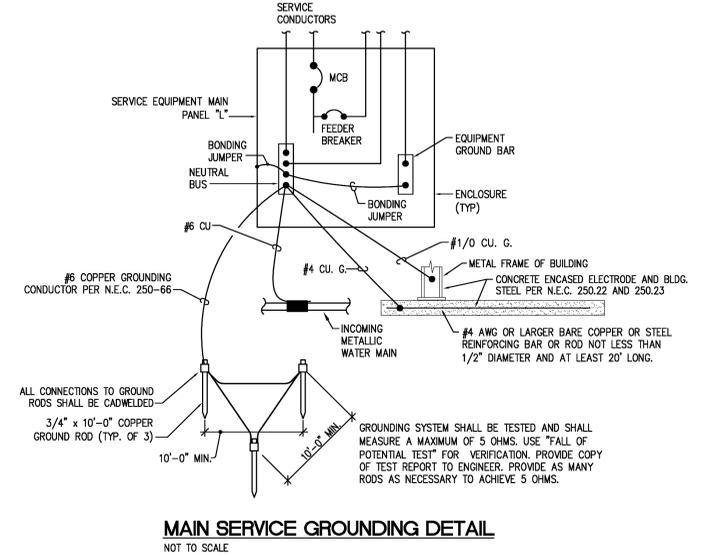
TOTAL LOAD = 8.08KVA X 1000/208 X 1.73 = 22.44 AMPS

TOTAL KVA: A# = 3.13KVA, B# = 1.56KVA, C# = 3.39KVA



**FEEDER TAGS**

- ① UNDERGROUND PRIMARY SERVICE CONDUIT AND CONDUCTORS TO NEW PAD MOUNTED TRANSFORMER BY UTILITY COMPANY.
- ② (1) 1 1/2"Ø RUN UNDERGROUND DIRECT BURIED 18" BELOW FINISHED GRADE, FROM UTILITY COMPANY'S PAD MOUNTED TRANSFORMER SECONDARY BUSHINGS, LOCATED APPROXIMATELY 120- FEET FROM THE PUMPHOUSE. CONDUIT INSTALLATION BY CONTRACTOR. SECONDARY SERVICE CONDUCTORS FROM UTILITY TRANSFORMER TO UTILITY C/T CABINET BY UTILITY COMPANY. REFER TO CML SITE PLAN FOR LOCATION OF NEW UTILITY CO. PAD MOUNTED TRANSFORMER AND PROPOSED ROUTING OF UNDERGROUND SECONDARY CONDUITS.
- ③ (4) #3 - 1 1/4"Ø FROM UTILITY C/T CABINET TO MAIN BREAKER LINE SIDE LUGS.



**MAIN SERVICE GROUNDING DETAIL**  
NOT TO SCALE

**BAXTER BAILEY & ASSOCIATES**  
ARCHITECTS  
11 EAST FRANKLIN STREET, SUITE 200, CHARLOTTE, NC 28204  
TEL: (704) 382-4000  
WWW.BBA-ARCHITECTS.COM

**MECHANICAL AND ELECTRICAL ENGINEERS**  
SIMONS, ROCKWELL & PRINCE, INC.  
11 EAST FRANKLIN STREET, SUITE 200, CHARLOTTE, NC 28204  
TEL: (704) 382-4000  
WWW.SR&P-ENGINEERS.COM

**OWNER:**  
Dinwiddie County Board of Supervisors  
Daniel D. Lee - Chairman  
Brandon K. Edson-Bommer - Vice Chairman  
L. Mark E. Moore  
William D. Chavis

**DATE:** JUNE 1, 2015  
**JOB NUMBER:** J-239-10

**DESIGN BY:** CMD  
**DRAWN BY:** CMD  
**CHECKED BY:** DKN

**REVISIONS**

**COMMISSIONED BY:**  
W. Kevin Massengill - County Administrator  
Tammie Collins - Dinwiddie County Administrator  
J. Raymond Prince, III - Assistant Recreation Director

**PROFESSIONAL ENGINEER**  
DINESH K. NARANG  
Lic. No. 38271

**FIRE PUMP HOUSE ELECTRICAL PLANS**  
**FP-3**