

- KEYED NOTES**
- 1 EXISTING 3/4" UNDERGROUND RIGID GALVANIZED CONDUIT. UN-SCREW SECTION OF PIPE DOWN TO BASE WHERE RACEWAY TURNS UP OUT FROM BELOW GROUND. ADD SHORT SECTION OF RIGID GALVANIZED CONDUIT TO HEIGHT OF NEW CT CABINET. COORDINATE WITH UTILITY COMPANY TO DE-ENERGIZE SERVICE PRIOR TO DISMANTLING SERVICE RISER.
 - 2 26"x26"x12" ALUMINUM WEATHERPROOF ENCLOSURE WITH KEY TABS. PROVIDE 3/4" MARINE GRADE PLYWOOD BACK BOARD FOR MOUNTING CURRENT TRANSFORMERS. EXTEND EXISTING SERVICE CONDUCTORS THROUGH CT'S TO NEW WIREWAY.
 - 3 3/4" RGC NIPPLE TO NEW WIREWAY. EXTEND EXISTING SERVICE FEEDER FROM CT CABINET TO WIREWAY.
 - 4 NEW WEATHERPROOF 14"x14"x72" LONG WIREWAY WITH REMOVABLE COVER. PREFERABLE STAINLESS STEEL OR HEAVY GAUGE ALUMINUM.
 - 5 1-2/0 GROUND ELECTRODE CONDUCTOR TO 3'-20'-0" 3/4" COPPERCLAD GROUND RODS, EXISTING COPPER WATER LINE, AND BUILDING FOOTING. COORDINATE EXPOSING EXISTING FOOTING STEEL TO MAKE CONNECTION.
 - 6 NEW 400 AMP., 3 POLE, SOLID NEUTRAL, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH EQUIPMENT GROUND. FUSE AT 400 AMPS. TAP FROM WIREWAY 4-500 MCM THWN CU. AND 1-#1/0 CU. E.G. IN 3/4" CONDUIT.
 - 7 NEW 400 AMP., 3 POLE, SOLID NEUTRAL, NEMA-3R FUSIBLE DISCONNECT SWITCH WITH EQUIPMENT GROUND. FUSE AT 400 AMPS. TAP FROM 4-500 MCM THWN CU. AND 1-#1/0 CU. E.G. IN 3/4" CONDUIT.
 - 8 NEW 200 AMP., 3 POLE, SOLID NEUTRAL, NEMA-3R FUSIBLE AT 200 AMPS. TAP FROM WIREWAY 4-3/0 THWN CU. AND 1-#2 CU. E.G.

- KEYED NOTES**
- 9 EXISTING 3/4" RIGID GALVANIZED CONDUIT. EXTEND AND OFFSET TO NEW DISCONNECT SWITCH. INSTALL NEW 4-500 MCM THWN COPPER AND 1-#3 CU. E.G.
 - 10 NEW 3/4" CONDUIT WITH 4-500 MCM THWN CU. AND 1-#3 CU. E.G.
 - 11 EXISTING 3" CONDUIT (FIELD VERIFY) EXTEND AND OFFSET TO NEW DISCONNECT SWITCH AND NEW PANEL-C. INSTALL NEW 4-3/0 THWN CU. AND #1-6 CU. E.G.
 - 12 1 1/2" CONDUIT WITH 4-#3 THWN CU AND #1-8 CU. E.G.
 - 13 EXISTING WIREWAY TO REMAIN. EXISTING BRANCH CIRCUIT RACEWAY SHALL BE RE-USED AND NEW CIRCUIT WIRING SHALL BE PULLED IN WITH EQUIPMENT GROUNDS. REFER TO PANEL SCHEDULE FOR BRANCH CIRCUIT DESCRIPTIONS AND SIZES.
 - 14 EXISTING LAUNDRY PANEL LOCATED ON SECOND FLOOR. PROVIDE NEW FEEDER WITH EQUIPMENT GROUND. PROVIDE EQUIPMENT GROUND TERMINAL BAR WITH-IN PANEL.
 - 15 NEW 1 1/4" CONDUIT WITH 3-#3 THWN CU. AND 1-#8 CU. E.G.
 - 16 LIGHTING ARRESTOR.
 - 17 EXISTING TIME SWITCH RELOADED AND RECONNECTED TO NEW PANEL. PROVIDE NEW CIRCUIT AND WIRING.

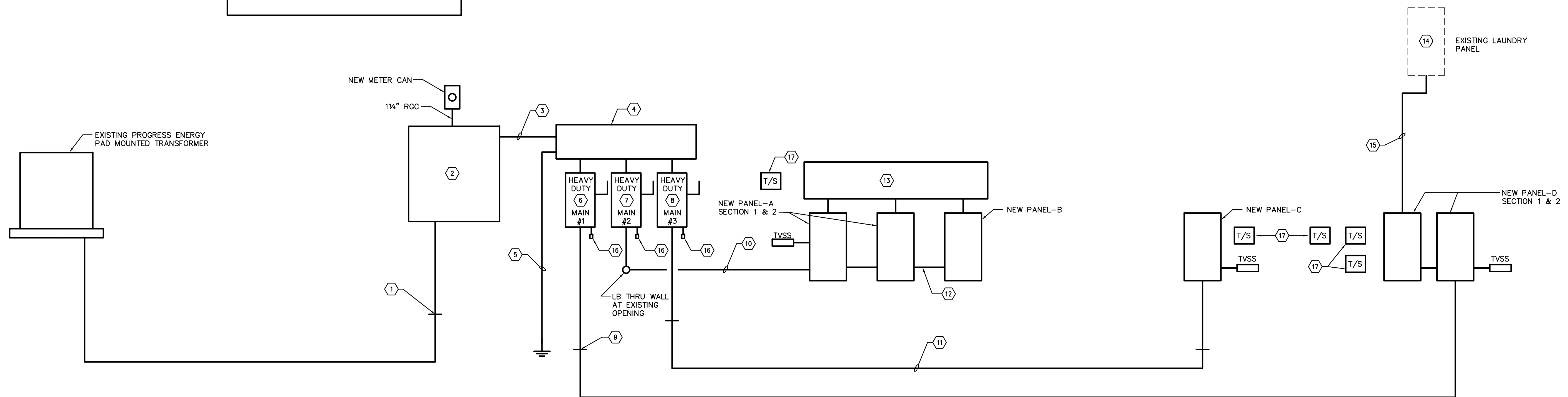
LOAD INFORMATION

THE EXISTING SERVICE INITIALLY WAS FED WITH 120/240 VOLT., 3 PHASE DELTA WITH HIGH LEG. B-PHASE CONDUCTOR WHEN MEASURED IN FIELD RECORDED ZERO AMPERAGE. THE EXISTING SERVICE PRESENTLY IS 120/208 VOLT, THREE PHASE, FOUR WIRE (ZERO AMPERAGE ON "B" PHASE).

NEW SERVICE EQUIPMENT AND BRANCH FEEDERS WILL UTILIZE ALL THREE LEGS AT 120/208 VOLTS.

PEAK DEMAND RECORDED BY FLORIDA PROGRESS ENERGY IS 92.0 KILOWATTS 255 AMPS @ 120/208 VOLTS.

NO ADDITIONAL LOAD OR EQUIPMENT HAS BEEN ADDED TO THIS PROJECT. THE PEAK DEMAND REMAINS 92.0 KW.



NEW ELECTRICAL RISER DIAGRAM
SCALE: NO SCALE

REVISIONS		COMMENTS
NO.	DATE	

RENOVATION/RESTORATION PROJECT

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ELECTRICAL SINGLE LINE DIAGRAMS

DATE: 02-23-09 DRAWN BY: CSR
JOB NO: 08-132 DESIGN BY: OFB

SHEET NO.
E3.2

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