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New Kitchen
Facility for



701 Boutwell Road
Lake Worth, FL 33461



Project No. 22.046
24 February 2023
Bidding, Permit and
Construction

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JLRD PROJECT NO:
122110

PLAN NOTES

- THE OWNER SHALL RECEIVE APPROVAL FROM AHJ TO HAVE A SINGLE OFFSIDE SOURCE OF ENERGY FUEL, FOR LIFE-SAFETY LOADS PER 2017 NEC 700.32.
- CIRCUIT BREAKER IN SEPARATE VERTICAL SECTION FROM NON-EMERGENCY CIRCUITS (OPTIONAL STANDBY), PER 2017 NEC 700.10(B)(5).
- PROVIDE ENGRAVED PHENOLIC PLAQUE ON SWITCHBOARD WITH TEXT AS INDICATED.
- GENERATOR REMOTE STOP (BREAK GLASS SWITCH). REFER TO PLANS FOR LOCATION.
- GENERATOR REMOTE ANNUNCIATION PANEL. REFER TO PLANS FOR LOCATION.
- PROVIDE SOLID-STATE BREAKER WITH DIGITAL TRIP MODULE AND ADJUSTABLE SETTING L.S.I.
- CIRCUIT BREAKER LOCATED AT GENERATOR.
- NEMA 4XSS WEATHER - PROOF OUTDOOR GENERATOR TAP BOX PER 2017 NEC 701. PROVIDE COLOR-COATED CAM-LOC CONNECTOR RATED FOR 1000A, 480/277V, 3PH, 4W. COORDINATE FINAL LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE DOUBLE VERTICAL SECTION ELECTRICAL SWITCHBOARD, PER 2017 NEC, 700.10(B)(5).
- PROVIDE LSI AND ARC-FAULT INCIDENT ENERGY MAINTENANCE SWITCHES ON ALL BREAKERS RATED 1200A OR HIGHER, PER 2017 NEC 240.87.
- BOND NEUTRAL TO GROUND AT THE GENERATOR.
- PROVIDE SPD LEVEL 1 INTEGRAL TO PANEL, MINIMUM 400ka SERVICE ENTRANCE AND 240ka AT ALL OTHER PANELS.
- TYPICAL, BOND ALL GROUNDING ELECTRODE CONDUCTORS TO 10' x 3/4" GROUNDING ROD, LOCAL COLD WATER PIPING, BUILDING STEEL, BUILDING SERVICE GROUNDING ELECTRODE CONDUCTOR, BUILDING GROUND REBAR IN SLAB, AND LIGHTNING PROTECTION SYSTEM.
- SEE PANEL SCHEDULES FOR BRANCH CIRCUITS.
- SEE FLOOR AND ENLARGED PLANS FOR PANELS LOCATION.
- EMERGENCY SYSTEMS (LIFE SAFETY) OVERCURRENT DEVICES SHALL BE SELECTIVELY COORDINATED PER 2017 NEC 700.32.

LEGEND

- NEW
EXISTING
DEMO

SPD NOTE

CONNECT 'SPD' UNITS USING LEADS PROVIDED ON UNIT AT FACTORY. CONDUIT/NIPPLE SIZE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. LEADS SHALL BE KEPT AS SHORT AS POSSIBLE.

SHORT CIRCUIT RATING NOTE:

AIC RATINGS SHOWN IN THE DOCUMENTS FOR ALL ELECTRICAL EQUIPMENT, ARE BASED ON ESTIMATED VALUES AT THE TIME OF DESIGN. FINAL TRANSF. SIZE, IMPEDANCE, AND AVAILABLE FAULT CURRENT SHALL BE OBTAINED FROM FPL AND UTILIZED IN PERFORMING THE FAULT STUDY. RATINGS OF ALL EQUIPMENT SHALL BE ADJUSTED AS MAY BE NECESSARY TO COMPLY WITH THE RESULTS OF THE STUDY.

MAIN DISTRIBUTION PANEL AND ALL DISTRIBUTION PANELS FIELD MARKED WITH LABEL FOR ARC FLASH HAZARDS PURPOSES CONTAINING ALL OF THE INFORMATION AS NOTED IN NEC 70E-130.5 (C).

CONTRACTOR SHALL PROVIDE A COMPLETE COORDINATION STUDY FOR THE ENTIRE EMERGENCY ELECTRICAL SYSTEM, INCLUDING THE GENERATOR BREAKERS. PROVIDE TIME CURRENT CURVES AND APPROPRIATE SETTINGS FOR EACH CIRCUIT BREAKER.

COPPER WIRE AND CONDUIT SCHEDULE

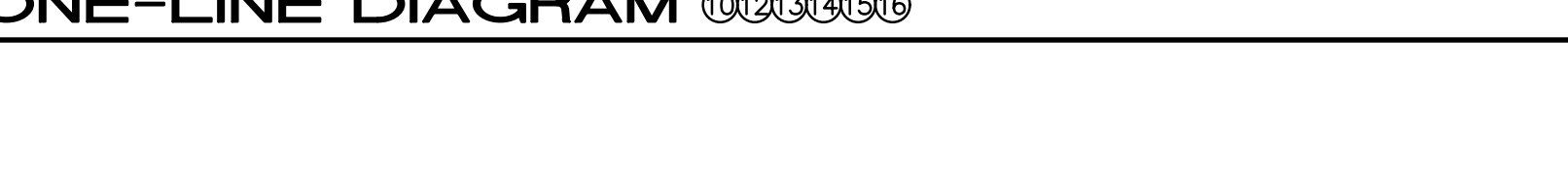
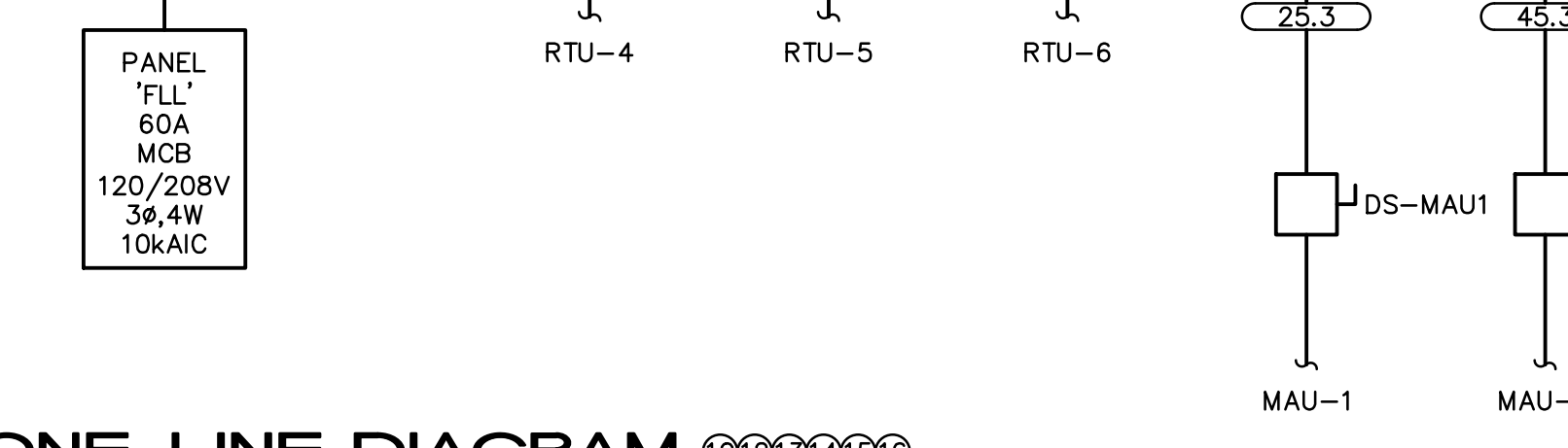
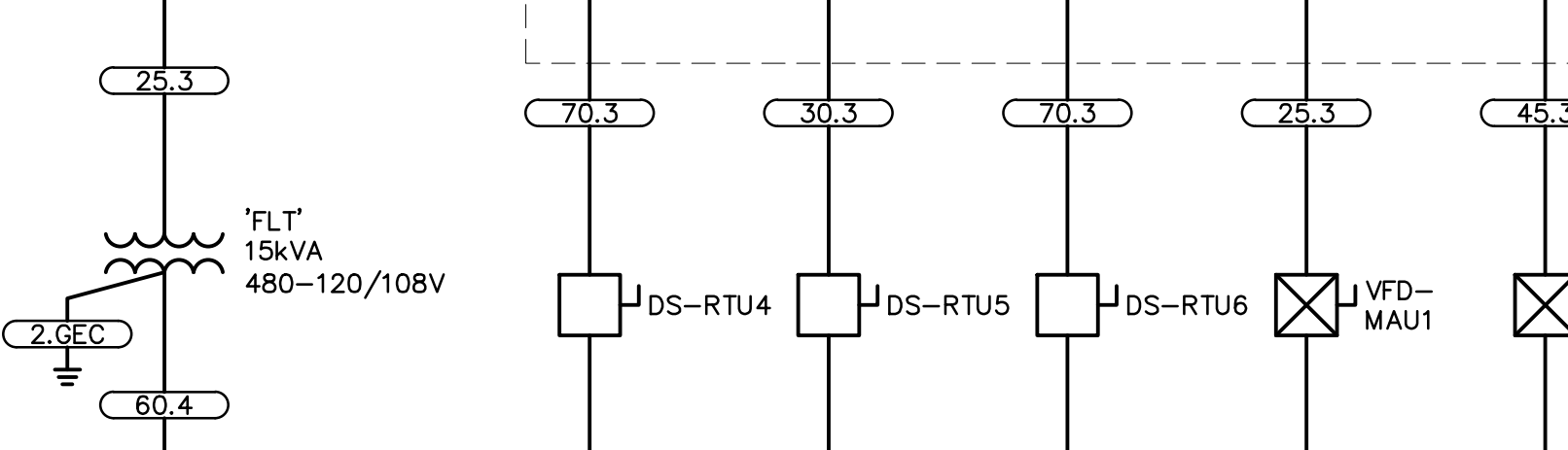
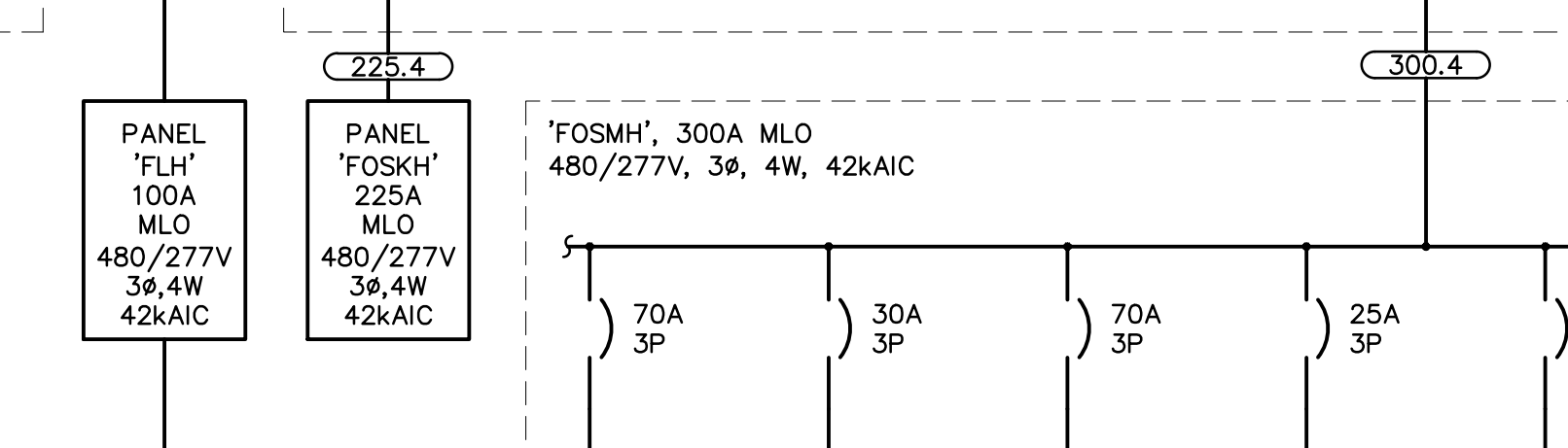
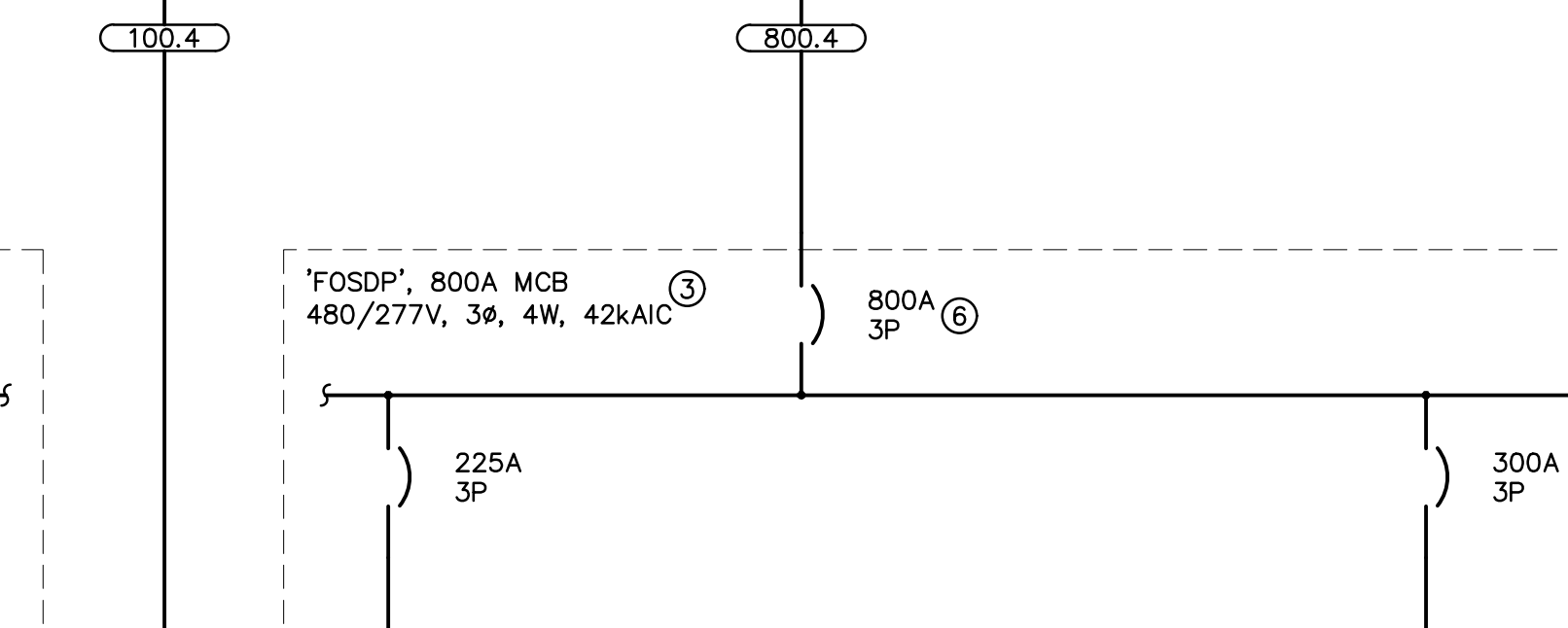
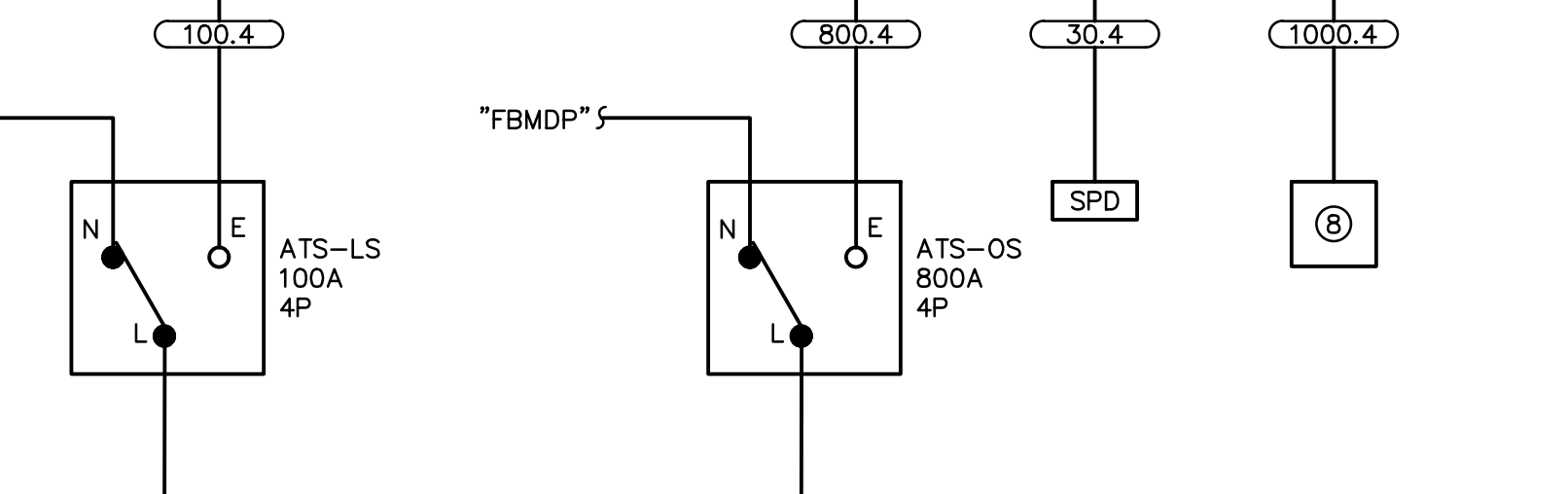
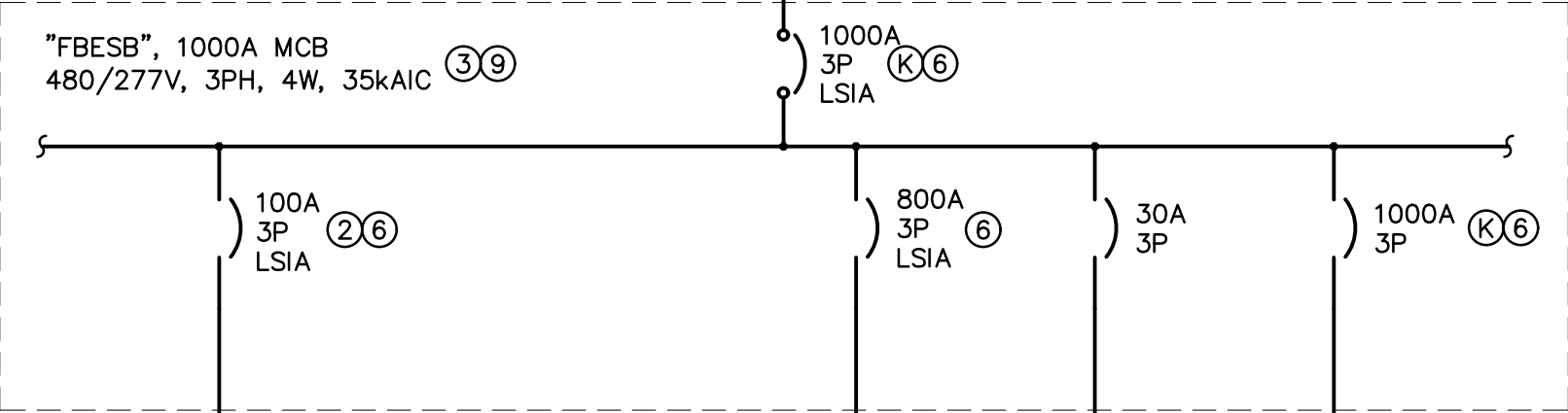
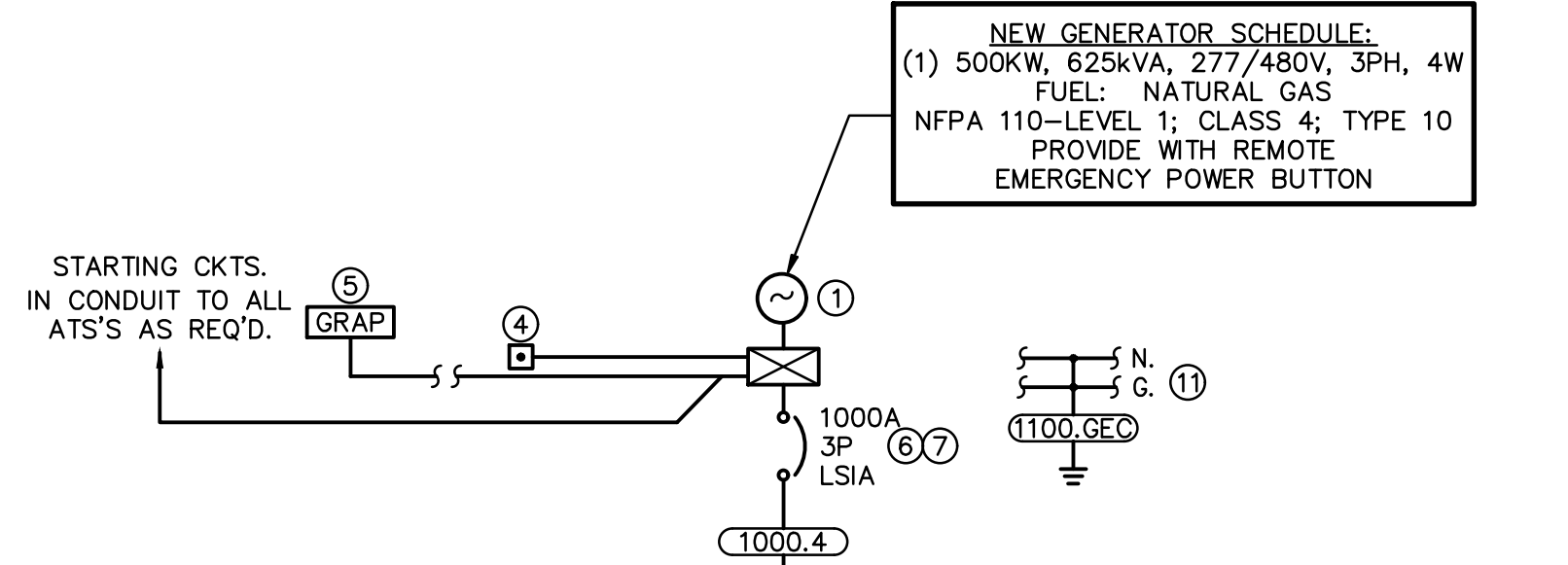
| | |
|-------|--------------------------|
| 15.3 | 3#12, 1#12G, 3/4" |
| 15.4 | 3#12, 1#12N, 1#12G, 3/4" |
| 20.3 | 3#12, 1#12G, 3/4" |
| 20.4 | 3#12, 1#12N, 1#12G, 3/4" |
| 25.2 | 2#10, 1#10G, 3/4" |
| 25.3 | 3#10, 1#10G, 3/4" |
| 25.4 | 3#10, 1#10N, 1#10G, 3/4" |
| 30.3 | 3#10, 1#10G, 3/4" |
| 30.4 | 3#10, 1#10N, 1#10G, 3/4" |
| 35.2 | 2#8, 1#10G, 3/4" |
| 35.3 | 3#8, 1#10G, 3/4" |
| 35.4 | 3#8, 1#8N, 1#10G, 3/4" |
| 40.3 | 3#8, 1#10G, 3/4" |
| 40.4 | 3#8, 1#8N, 1#10G, 3/4" |
| 45.3 | 3#6, 1#10G, 3/4" |
| 45.4 | 3#6, 1#6N, 1#10G, 1" |
| 50.3 | 3#6, 1#10G, 3/4" |
| 50.4 | 3#6, 1#6N, 1#10G, 1" |
| 60.3 | 3#4, 1#10G, 1" |
| 60.4 | 3#4, 1#4N, 1#10G, 1-1/4" |
| 70.3 | 3#4, 1#8G, 1" |
| 70.4 | 3#4, 1#4N, 1#8G, 1-1/4" |
| 80.3 | 3#3, 1#8G, 1-1/4" |
| 80.4 | 3#3, 1#3N, 1#8G, 1-1/4" |
| 90.3 | 3#2, 1#8G, 1-1/4" |
| 90.4 | 3#2, 1#2N, 1#8G, 1-1/4" |
| 100.3 | 3#1, 1#8G, 1-1/4" |
| 100.4 | 3#1, 1#1N, 1#8G, 1-1/2" |
| 110.3 | 3#1, 1#6G, 1-1/4" |
| 110.4 | 3#1, 1#1N, 1#6G, 1-1/2" |
| 125.3 | 3#1/0, 1#6G, 1-1/2" |
| 125.4 | 3#1/0, 1#1/0N, 1#6G, 2" |
| 150.3 | 3#1/0, 1#6G, 1-1/2" |
| 150.4 | 3#1/0, 1#1/0, 1#6G, 2" |
| 175.3 | 3#2/0, 1#6G, 2" |
| 175.4 | 3#2/0, 1#2/0, 1#6G, 2" |
| 200.3 | 3#3/0, 1#6G, 2" |

COPPER WIRE AND CONDUIT SCHEDULE

| | |
|----------|---|
| 200.4 | 3#3/0, 1#3/0N, 1#6G, 2" |
| 200.4SE | 3#3/0, 1#3/0N, 2" |
| 225.3 | 3#4/0, 1#4G, 2" |
| 225.4 | 3#4/0, 1#4/0N, 1#4G, 2-1/2" |
| 250.3 | 3-250MCM, 1#4G, 2-1/2" |
| 250.4 | 3-250MCM, 1-250MCM N, 1#4G, 2-1/2" |
| 300.3 | 3-350MCM, 1#4G, 2-1/2" |
| 300.4 | 3-350MCM, 1-350MCM N, 1#4G, 3" |
| 350.3 | 3-500MCM, 1#3G, 3" |
| 350.4 | 3-500MCM, 1-500MCM N, 1#3G, 3-1/2" |
| 400.3 | 3-600MCM, 1#3G, 3" |
| 400.4 | 3-600MCM, 1-600MCM N, 1#3G, 3-1/2" |
| 450.3 | (2) SETS EACH OF 3#4/0, 1#2G, 2" |
| 450.4 | (2) SETS EACH OF 3#4/0, 1#4/0N, 1#2G, 2-1/2" |
| 500.3 | (2) SETS EACH OF 3#250MCM, 1#2G, 2-1/2" |
| 500.4 | (2) SETS EACH OF 3#250MCM, 1#250MCM N, 1#2G, 2-1/2" |
| 600.3 | (2) SETS EACH OF 3#350MCM, 1#1G, 3" |
| 600.4 | (2) SETS EACH OF 3#350MCM, 1#350MCM N, 1#1G, 3" |
| 700.3 | (2) SETS EACH OF 3#500MCM, 1#1/0G, 3" |
| 700.4 | (2) SETS EACH OF 3#500MCM, 1#500MCM N, 1#1/0G, 3-1/2" |
| 800.3 | (2) SETS EACH OF 3#600MCM, 1#1/0G, 3" |
| 800.4 | (2) SETS EACH OF 3#600MCM, 1#300MCM N, 1#1/0G, 3" |
| 900.3 | (3) SETS EACH OF 3#350MCM, 1#2/0G, 3" |
| 900.4 | (3) SETS EACH OF 3#350MCM, 1#350MCM N, 1#2/0G, 3" |
| 1000.3 | (3) SETS EACH OF 3#400MCM, 1#2/0G, 3" |
| 1000.4 | (3) SETS EACH OF 3#400MCM, 1#400MCM N, 1#2/0G, 3" |
| 1200.3 | (3) SETS EACH OF 3#600MCM, 1#3/0G, 3" |
| 1200.4 | (3) SETS EACH OF 3#600MCM, 1#600MCM N, 1#3/0G, 4" |
| SI200.4 | (3) SETS EACH OF 3#600MCM, 1#600MCM N, 4" |
| 1400.3 | (4) SETS EACH OF 3#500MCM, 1#4/0G, 3" |
| 1400.4 | (4) SETS EACH OF 3#500MCM, 1#500MCM N, 1#4/0G, 3-1/2" |
| 1600.3 | (4) SETS EACH OF 3#600MCM, 1#4/0G, 3-1/2" |
| 1600.4 | (4) SETS EACH OF 3#600MCM, 1#600MCM N, 1#4/0G, 3-1/2" |
| 2000.3 | (5) SETS EACH OF 3#600MCM, 1#250MCM G, 3-1/2" |
| 2000.4 | (5) SETS EACH OF 3#600MCM, 1#600MCM N, 1#250MCM G, 3-1/2" |
| 2000.4SE | (5) SETS EACH OF 3#600MCM, 1#600MCM N, 3-1/2" |
| 2500.3 | (6) SETS EACH OF 3#600MCM, 1#350MCM G, 3-1/2" |
| 2500.4 | (6) SETS EACH OF 3#600MCM, 1#600MCM N, 1#350MCM G, 4" |
| 2500.4SE | (6) SETS EACH OF 3#600MCM, 1#600MCM N, 4" |
| 3000.3 | (8) SETS EACH OF 3#500MCM, 1#400MCM G, 3" |
| 3000.4 | (8) SETS EACH OF 3#500MCM, 1#500MCM N, 1#400MCM G, 3-1/2" |
| 4000.3 | (10) SETS EACH OF 3#600MCM, 1#500MCM G, 3-1/2" |
| 4000.4 | (10) SETS EACH OF 3#600MCM, 1#600MCM N, 1#500MCM G, 4" |
| 2.GEC | 1#8G |
| 170.GEC | 1#6G |
| 270.GEC | 1#4G |
| 370.GEC | 1#2G |
| 350.GEC | 1#1/0G |
| 600.GEC | 1#2/0G |
| 1100.GEC | 1#3/0G |

GROUNDING NOTE:

ALL GROUNDING ELECTRODE CONDUCTORS SHALL TERMINATE ON 5/8" DIA x 10' LONG COPPER GROUND ROD, BUILDING STEEL, AND CWP. (WHERE DRIVEN GROUND ROD NOT POSSIBLE, CONNECT TO BLDG. STEEL AND CWP)



ELECTRICAL ONE-LINE DIAGRAM 10230436

SCALE: NONE