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GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NFPA 70, NATIONAL ELECTRICAL CODE (NEC), OSHA REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF THE PERTINENT FEDERAL, STATE, COUNTY, AND CITY AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE, IES AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS THAT ARE UL LISTED AND LABELED.
- THE ELECTRICAL SUBCONTRACTOR SHALL VISIT THE SITE AND INSPECT EXISTING CONDITIONS, SERVICES, CONDUITS, SPATIAL CONSIDERATIONS AND ALL OTHER PERTINENT CONDITIONS TO FULLY FAMILIARIZE HIMSELF WITH CONDITIONS TO BE ENCOUNTERED IN THE PERFORMANCE OF THIS WORK. THE ELECTRICAL SUBCONTRACTOR SHALL COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR DURING CONSTRUCTION. FAILURE TO DO SO WILL NOT RELIEVE THE ELECTRICAL SUBCONTRACTOR OF THE RESPONSIBILITY FOR FULL COMPLETION OF THE WORK IN ACCORDANCE WITH APPLICABLE DRAWINGS AND SPECIFICATIONS. VERIFY EXISTING SYSTEMS THAT WILL BE UTILIZED FOR CONNECTION TO THE NEW SYSTEM. IF DISCREPANCIES EXIST BETWEEN THE CONTRACT DRAWINGS AND THE ACTUAL EXISTING CONDITIONS, THE ELECTRICAL SUBCONTRACTOR SHALL NOTIFY THE ENGINEER/OWNER PRIOR TO PROCEEDING WITH THE INSTALLATION.
- CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING'S CONSTRUCTION AND OBSTRUCTIONS, EXCEPT WHERE OTHERWISE NOTED.
- ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE PROVIDED BY DIVISION 16, UNLESS NOTED AS FURNISHED WITH EQUIPMENT.
- ALL PENETRATIONS THROUGH FIRE-RATED FLOORS, WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATINGS OF THE SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS WHICH CONTAIN FIRE ALARM SYSTEM COMPONENTS SHALL BE PAINTED RED. CIRCUIT BREAKERS SUPPLYING POWER TO FIRE ALARM CONTROL PANELS SHALL ALSO BE PAINTED RED.
- UNLESS OTHERWISE NOTED, WIRING SHALL BE 2 #12 AWG CONDUCTORS & #12 GND. HOME RUNS FED FROM 20A SINGLE POLE CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG. UNLESS INDICATED OTHERWISE, INSULATION TYPE SHALL BE THIN/THIN, T5 DEG C, AND 600V CLASS UNLESS SPECIFIED OTHERWISE.
- FLEXIBLE CONNECTIONS TO MOTORS SHALL BE FLEXIBLE LIQUID TIGHT CONDUIT.
- UNLESS OTHERWISE NOTED, ALL WIRING SHALL BE 600V, COPPER WITH THIN-THIN INSULATION.
- ALL GENERAL NOTES, SYMBOL LISTS, ABBREVIATIONS AND DETAILS ARE TO BE CONSIDERED APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT.
- WHERE A DISCREPANCY OCCURS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL PREVAIL. CONTACT THE ENGINEER FOR CLARIFICATION WHEN SUCH A SITUATION OCCURS.
- WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT AND DEVICES, AND FURNITURE REQUIREMENTS, PRIOR TO ROUGHING IN FOR SAME.
- IN AREAS NOT AFFECTED BY THIS RENOVATION, THE ELECTRICAL SUBCONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING ELECTRICAL SERVICE.
- PRIOR TO THE REMOVAL OF EQUIPMENT, THE OWNER WILL INDICATE WHICH EXISTING DEVICES OR MATERIALS SHALL BE SALVAGED AND TURNED OVER FOR STORAGE.
- WHERE EXISTING EQUIPMENT AND DEVICES ARE TO BE RELOCATED, ALL ASSOCIATED WIRING, CONDUIT AND ACCESSORIES SHALL BE EXTENDED, RELOCATED OR REPLACED WHERE REQUIRED.
- WHERE IT IS INDICATED THAT EXISTING WIRING IS TO BE REUSED, THE ELECTRICAL SUBCONTRACTOR SHALL VERIFY THAT THE INTEGRITY OF THE INSULATION IS ADEQUATE FOR REUSE. ALL SUSPECT WIRING SHALL BE REPLACED BY THE SUBCONTRACTOR.
- ALL EXIT SIGNS AND NIGHT LIGHT (NL) FIXTURES ARE TO BE CONNECTED AHEAD OF THE BRANCH CIRCUIT, UNSWITCHED.
- UNLESS OTHERWISE INDICATED, ALL RECEPTACLES AND TELE/DATA OUTLETS AND JACKS ARE TO BE COMMERCIAL GRADE.
- UNLESS NOTED OTHERWISE ALL DUCT SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, AND INSTALLED BY THE MECHANICAL CONTRACTOR. WIRING TO FIRE ALARM CONTROL PANEL AND UNIT CONTROLLER SHALL BE BY ELECTRICAL CONTRACTOR. DUCT SMOKE DETECTOR REMOTE INDICATORS SHALL BE LOCATED AS FIELD DIRECTED.

LIGHT FIXTURE NOTES

- THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET JOB REQUIREMENTS.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE MOUNTING AND LOCATION AGAINST PLANS, ELEVATIONS AND DETAIL DRAWINGS. EXACT LOCATION OF ALL FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGHING IN.
- SERIES FIXTURES SHALL SATISFY LENGTHS AS SHOWN ON THE DRAWINGS.
- FIXTURE LETTERS SHOWN ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE NOTED.
- ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILING.
- ALL INCANDESCENT LAMPS SHALL BE RATED 120 VOLTS UNLESS OTHERWISE SPECIFIED.
- ALL FLUORESCENT LAMPS SHALL BE ENERGY SAVING TYPE, GENERAL ELECTRIC F32 TO OR APPROVED EQUAL.
- ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS - UL APPROVED AS A COMBINATION WITH ENERGY SAVING LAMPS SUPPLIED.
- ALL FLUORESCENT LAMPS ARE TO BE STANDARD COOL WHITE COLOR, 3500K UNLESS OTHERWISE SPECIFIED.

GENERAL ABBREVIATIONS

- A AMPERES
- ADA AMERICANS WITH DISABILITIES ACT
- AF ABOVE FINISH GRADE
- AFG ABOVE FINISH GRADE
- AH AUTHORITY HAVING JURISDICTION
- AHU AIR HANDLING UNIT
- AC AMPERE INTERRUPTING CAPACITY
- AL ALUMINUM
- ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
- ARCH ARCHITECT
- ATS AUTOMATIC TRANSFER SWITCH
- ATC AUTOMATIC TEMPERATURE CONTROL
- AWG AMERICAN WIRE GAUGE
- BFG BELOW FINISH GRADE
- BLDG BUILDING
- C CONDUIT
- CAT CATALOG
- CB CIRCUIT BREAKER
- CBM CERTIFIED BALLASTS MANUFACTURERS CIRCUIT
- CL CENTERLINE
- CLF CURRENT LIMITING FUSE
- COL COLUMN
- CPT CONTROL POWER TRANSFORMER
- CT CURRENT TRANSFORMER
- CU COPPER
- DWNG DRAWING
- DWC EXHAUST FAN
- EM EMERGENCY
- EMT ELECTRICAL METALLIC TUBING
- EPO EMERGENCY POWER OFF
- EWC ELECTRIC WATER COOLER
- FA FUSE
- FLA FIRE ALARM
- FLLA FULL LOAD AMPERES
- FMC FLEXIBLE METAL CONDUIT
- FT FEET
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- GND,G GROUND OR GROUNDING
- GRMC GALVANIZED RIGID METALLIC CONDUIT
- HOA HAND, OFF, AUTOMATIC SWITCH
- IEET ISOLATED GROUND
- KMIL THOUSAND CIRCULAR MILS
- KVA KILOVOLT AMPERES
- KW KILOWATTS
- LTD LIGHTING
- LFTM LIQUIDTIGHT FLEXIBLE METAL CONDUIT
- MC METAL CLAD CABLE
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MCP MOTOR CIRCUIT PROTECTOR
- MISC MISCELLANEOUS
- MLO MAIN LUGS ONLY
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRIC CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NO NORMALLY OPEN OR NUMBER
- NTS NOT TO SCALE
- F FOLE
- PB PUSHBUTTON
- PNL PANEL
- POS PROVIDED UNDER OTHER SECTIONS
- PVC POLYVINYL CHLORIDE
- PWR POWER
- QTY QUANTITY
- REQ'D REQUIRED
- RMC RIGID METAL CONDUIT
- RMS ROOT MEAN SQUARED
- RNMC RIGID NON-METALLIC CONDUIT
- RTU ROOF TOP UNIT
- SP SPARE
- SW SWITCH
- SYM SYMMETRICAL
- TEL TELEPHONE
- TMCB THERMAL MAGNETIC CIRCUIT BREAKER
- TP TAMPER PROOF
- TYP TYPICAL
- UG UNDERGROUND OR UNDERGRADE
- UL UNDERWRITERS LABORATORIES
- V VOLT
- VT VOLTAGE TRANSFORMER
- W WIRE
- WH WATER HEATER
- WP WEATHER PROOF
- XMR TRANSFORMER
- Δ DELTA
- Y WYE
- Φ PHASE
- G.C. GENERAL CONTRACTOR
- M.C. MECHANICAL CONTRACTOR
- E.C. ELECTRICAL CONTRACTOR
- NL INDICATES NIGHT LIGHT FIXTURE TO BE CONNECTED TO UNSWITCHED SOURCE, ENERGIZED 24 HOURS A DAY

WIRING DEVICES LEGEND

- Ⓛ DUPLEX RECEPTACLE 20AMP, 125VOLT CONNECTED TO CIRCUIT #3, NORMAL POWER
- Ⓛ DUPLEX RECEPTACLE MOUNTED AT COUNTER HEIGHT
- Ⓛ QUADRAPLEX RECEPTACLE
- Ⓛ TAMPERPROOF DUPLEX RECEPTACLE
- Ⓛ POWER RECEPTACLE AS NOTED ON PLAN
- Ⓛ DUPLEX RECEPTACLE CONNECTED TO 120V EMERGENCY CIRCUIT EMERGENCY SYSTEM RECEPTACLES SHALL HAVE INDICATION OF PANELBOARD AND CIRCUIT NUMBER SUPPLYING THEM.
- Ⓛ QUADRAPLEX RECEPTACLE CONNECTED TO 120V EMERGENCY CIRCUIT EMERGENCY SYSTEM RECEPTACLES SHALL HAVE INDICATION OF PANELBOARD AND CIRCUIT NUMBER SUPPLYING THEM.
- Ⓛ RETRACTABLE QUAD OUTLET FROM CEILING MOUNTED JUNCTION BOX
- Ⓛ SINGLE POLE, 20 AMP, TOGGLE SWITCH CONTROLLING LIGHTS 'a'
- Ⓛ THREE WAY SWITCH (20 AMP)
- Ⓛ FOUR WAY SWITCH (20 AMP)
- Ⓛ DIMMER SWITCH
- Ⓛ EMERGENCY SHUT-OFF SWITCH
- Ⓛ MANUAL MOTOR STARTER (THERMAL OVERLOAD SWITCH)
- Ⓛ TOGGLE SWITCH WITH PILOT LIGHT (20 AMP)
- Ⓛ KEYED TOGGLE SWITCH (20 AMP)
- Ⓛ OCCUPANCY SENSOR (1) NORMAL ANGLE, (2) WIDE ANGLE, (3) 360° COVERAGE
- Ⓛ DIMMABLE OCCUPANCY SENSOR
- Ⓛ CEILING MTD OCCUPANCY SENSOR
- Ⓛ WIRELESS SYSTEM ANTENNA
- Ⓛ TELEVISION OUTLET WITH 3/4" CONDUIT WITH FULL STRING STUBBED UP TO CEILING SPACE
- Ⓛ SEMI-FLUSH WALL MOUNTED, 120 VOLT, 3 WIRE SYNCHRONOUS, 12/24 HOUR ANALOG FACED CLOCK - INTERCONNECT TO THE NEAREST RECEPTACLE CIRCUIT
- Ⓛ FLUSH POKE-THRU FLOOR WITH DUPLEX RECEPTACLE, TELEPHONE/DATA OUTLETS AND SERVICE FITTINGS - AS INDICATED
- Ⓛ SPECIAL PURPOSE RECEPTACLE AS INDICATED ON PLANS (REFER TO SPECIAL PURPOSE RECEPTACLE SCHEDULE)
- Ⓛ ISOLATED GROUND
- Ⓛ GROUND FAULT CIRCUIT INTERRUPTER

EQUIPMENT LEGEND

- Ⓛ FUSED DISCONNECT SWITCH - 60 AMP SWITCH WITH 45 AMP TIME DELAY FUSES
- Ⓛ INFUSED DISCONNECT SWITCH - 60AMP SWITCH NON FUSED
- Ⓛ COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT
- Ⓛ MOTOR - NUMERAL DENOTES HORSEPOWER
- Ⓛ JUNCTION BOX - CEILING AND WALL MOUNTED RESPECTIVELY
- Ⓛ JUNCTION BOX WITH CONNECT TO DEVICE
- Ⓛ SURFACED MOUNTED ELAPSED TIME CLOCK WITH FLUSH MOUNTED CONTROLLER MOUNTED BELOW
- Ⓛ AUTOMATIC DOOR PUSH BUTTON FURNISHED AND INSTALLED BY OTHERS, WIRED BY THE ELECTRICAL CONTRACTOR. VERIFY EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGHING-IN
- Ⓛ FULL BOX - SIZE PER ELECTRIC CODE
- Ⓛ CONTROL PANEL
- Ⓛ LIGHTING CONTACTOR
- Ⓛ TIME CLOCK
- Ⓛ TIMER
- Ⓛ CONTACTOR
- Ⓛ VARIABLE FREQUENCY DRIVE

CIRCUITRY, RACEWAYS AND FEEDERS LEGEND

- LP2A1,3,5 HOMERUN TO PANEL "LP2A", CIRCUIT #1,3,5 (VIA 20A-IP G/B/S), TICKS INDICATE QUANTITY OF #12AWG (CU) CONDUCTORS, GROUNDING CONDUCTORS ARE NOT INDICATED IN TICKS, PROVIDE GROUNDING CONDUCTOR IN ACCORDANCE WITH SPECIFICATIONS.
- Ⓛ FEEDER SIZE TAG SYMBOL, REFER TO "LEGEND OF FEEDER SIZES", CIRCUITRY TURNING UP
- Ⓛ CIRCUITRY TURNING DOWN
- Ⓛ 3/4"x4 3/4" SECTION SURFACE METAL RACEWAY WITH FULL SIZE DEVICES AS INDICATED "....." ON CENTER.
- Ⓛ CABLE TRAY

LIGHTING EQUIPMENT LEGEND

- Ⓛ CEILING OUTLET AND 2'x4' FLUORESCENT LIGHTING FIXTURE TYPE 'A', CONTROLLED BY SWITCH 'a' AND CONNECTED TO CIRCUIT NUMBER '2'
- Ⓛ CEILING OUTLET AND 2'x2' FLUORESCENT LIGHTING FIXTURE
- Ⓛ CEILING OUTLET AND FLUORESCENT LIGHTING FIXTURE WALL PACK
- Ⓛ FLUORESCENT CHANNEL/STRIP LIGHT, SUSPENDED, CHAIN-HUNG
- Ⓛ CEILING OUTLET AND INCANDESCENT / H.I.D. / FLUORESCENT LIGHTING FIXTURE
- Ⓛ WALL OUTLET AND INCANDESCENT / H.I.D. / FLUORESCENT LIGHTING FIXTURE
- Ⓛ CEILING PENDANT
- Ⓛ WALL SCONCE
- Ⓛ EMERGENCY (LIFE SAFETY) LIGHTING FIXTURES - 'NL' DENOTES NIGHT LIGHT, 'EM' DENOTES BATTERY PACK
- Ⓛ EMERGENCY (CRITICAL) LIGHTING FIXTURES
- Ⓛ EXIT LIGHT FIXTURE, CEILING AND WALL MOUNT RESPECTIVELY. SHADING INDICATES DIRECTION OF FACE(S). DIRECTIONAL ARROWS AS INDICATED ON PLANS.

FIRE ALARM SYSTEM LEGEND

- Ⓛ FIRE ALARM SYSTEM COMBINATION HORN/ADA APPROVED STROBE LIGHT SIGNAL UNIT (T5CD UNLESS NOTED OTHERWISE)
- Ⓛ FIRE ALARM SYSTEM DUAL ACTION MANUAL PULL STATION
- Ⓛ FIRE ALARM SYSTEM ADA APPROVED STROBE LIGHT SIGNAL UNIT (T5CD UNLESS NOTED OTHERWISE)
- Ⓛ DUCT SMOKE DETECTOR
- Ⓛ FIRE ALARM SYSTEM SMOKE DETECTOR.
- Ⓛ FIRE ALARM SYSTEM COMBINATION 135°F FIXED TEMPERATURE/ RATE OF RISE HEAT DETECTOR. 'F' INDICATES 130°F FIXED TEMPERATURE.
- Ⓛ FIRE ALARM SYSTEM BELL
- Ⓛ SPRINKLER SYSTEM WATER FLOW SWITCH
- Ⓛ SPRINKLER SYSTEM VALVE TAMPER SWITCH
- Ⓛ MAGNETIC DOOR HOLDER/CLOSER
- Ⓛ FIRE ALARM CONTROL PANEL
- Ⓛ FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
- Ⓛ FIRE ALARM KEY BOX
- Ⓛ AUDIO AND VISUAL ALARM DEVICES SHALL BE MOUNTED 80" ABOVE

COMMUNICATION DEVICES LEGEND

- Ⓛ 4"x4" SINGLE GANG TELEPHONE OUTLET AND 3/4" CONDUIT WITH FULL STRINGS STUBBED INTO CEILING SPACE, 'W' DENOTES WALL MOUNTED 5" AFF
- Ⓛ 4"x4" SINGLE GANG DATA OUTLET AND 1 1/4" CONDUIT WITH FULL STRING STUBBED INTO CEILING SPACE
- Ⓛ 4"x4" COMBINATION TELEPHONE/DATA OUTLET AND 1 1/4" CONDUIT WITH FULL STRING STUBBED INTO CEILING SPACE

SECURITY DEVICES LEGEND

- Ⓛ DOOR CONTACTS
- Ⓛ MOTION SENSOR
- Ⓛ CARD READER FURNISHED AND INSTALLED BY OTHERS, WIRED BY THE ELECTRICAL CONTRACTOR. VERIFY EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGHING-IN
- Ⓛ VIDEO CAMERA

EXISTING EQUIPMENT LEGEND

- Ⓛ DOTTED INDICATES EXISTING EQUIPMENT (REFER TO LEGEND FOR TYPE).
- (E) EXISTING TO REMAIN
- (R) EXISTING TO BE DISCONNECTED AND REMOVED
- (RL) EXISTING TO BE DISCONNECTED AND RELOCATED
- (ER) EXISTING IN NEW LOCATION
- (RP) EXISTING TO BE REPLACED
- (N) NEW

JUNCTION BOX IDENTIFICATION COLOR CODE CHART

DESCRIPTION	COLOR
FIRE ALARM	RED
SIGNAL	PURPLE
AUDIO VISUAL	WHITE
480V	BROWN
277V	ORANGE
120V	BLUE
208V	BLACK

BUILDING GROUNDING GRID LEGEND

- Ⓛ GROUNDING CABLE
- Ⓛ GROUND ROD
- Ⓛ BOLTED BONDING CONNECTION

FIRE ALARM SYSTEM NOTES

- MODIFY THE EXISTING SIMPLEX MAIN FIRE ALARM CONTROL PANEL TO ACCOMMODATE THE NEW DEVICES INDICATED. PROVIDE NEW ZONES (IDENTIFY AS REQUIRED), NEW CONTACTS, ADDITIONAL POWER SUPPLIES AND ALL OTHER ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - PROVIDE NEW SMOKE DETECTORS WHERE INDICATED.
 - PROVIDE NEW FIRE ALARM HORN/STROBES WHERE INDICATED.
 - PROVIDE NEW FIRE ALARM STROBES WHERE INDICATED.
 - PROVIDE NEW FIRE ALARM PULL STATIONS WHERE INDICATED.
- REFER TO FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS OF ALL FIRE ALARM DEVICES ASSOCIATED WITH FIRE PROTECTION SYSTEMS.

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SIGNED COPY OF DRAWING ON FILE AT DIRIGO AVE OFFICE

6/01/16

ELECTRICAL SYMBOLS AND ABBREVIATIONS

REV.	DATE	DESCRIPTION
1	01/18/16	ISSUED FOR CONSTRUCTION
2	6/01/16	ISSUED FOR SET #1

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SHEET NO.
E0.1