

GENERAL ELECTRICAL NOTES:

- 1. A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND ALL LOCAL ORDINANCES. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE NFPA.
B. ELECTRICAL WORK SHALL COMPLY WITH THE STANDARDS OF THE FOLLOWING ORGANIZATIONS, AS APPLICABLE. THE LATEST EDITION OF THE STANDARD SHALL APPLY EXCEPT WHERE THE PUBLIC AUTHORITY REQUIRES USE OF AN EARLIER EDITION.
ADA AMERICANS WITH DISABILITIES ACT
ANSI AMERICAN NATIONAL STANDARD INSTITUTE
EIA/TIA ELECTRICAL INDUSTRIES ASSOC. / TELECOMMUNICATIONS INDUSTRIES ASSOC.
FM FACTORY MUTUAL
IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
NECA NATIONAL ELECTRICAL CONTRACTORS ASSOC., INC.
2. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL; PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED ONLY TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLE INFERRABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INDICATED RESULTS.
3. ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND ARTICLES, AND ARRANGEMENT OF DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF THE WORK TO BE PERFORMED BY ANY TRADE.
4. SINCE THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, BEFORE STARTING EACH PORTION OF THE WORK, THE CONTRACTOR SHALL CAREFULLY STUDY THE VARIOUS DRAWINGS AND OTHER CONTRACT DOCUMENTS RELATIVE TO THAT PORTION OF THE WORK, SHALL TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THAT PORTION OF THE WORK AND SHALL OBSERVE ANY CONDITIONS AT THE SITE AFFECTING IT. THESE OBLIGATIONS ARE FOR THE PURPOSE OF FACILITATING CONSTRUCTION BY THE CONTRACTOR AND ARE NOT FOR THE PURPOSE OF DISCOVERING ERRORS, OMISSIONS, OR INCONSISTENCIES IN THE CONTRACT DOCUMENTS, HOWEVER ANY ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED PROMPTLY TO THE ARCHITECT AS A REQUEST FOR INFORMATION IN SUCH FORM AS THE ARCHITECT MY REQUIRE.
5. PROJECT RECORD DOCUMENTS:
A. RECORD DRAWINGS: MAINTAIN A CLEAN, UNDATED SET OF BLUE OR BLACK LINE WHITE-PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICH DRAWING IS MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE.
1. MARK RECORD SETS WITH RED ERASABLE COLORED PENCIL.
2. MARK IMPORTANT ADDITIONAL INFORMATION THAT WAS EITHER SHOWN SCHEMATICALLY OR OMITTED FROM ORIGINAL DRAWINGS.
B. RESPONSIBILITY FOR MARKUP: THE ELECTRICAL SUBCONTRACTOR SHALL PREPARE THE MARK UP ON RECORD DRAWINGS.
1. ACCURATELY RECORD INFORMATION IN AN UNDERSTANDABLE DRAWING TECHNIQUE.
2. RECORD DATA AS SOON AS POSSIBLE AFTER OBTAINING IT. RECORD AND CHECK THE MARKUP PRIOR TO ENCLOSING CONCEALED INSTALLATIONS.
C. SUBMITTAL: AT TIME OF COMPLETION, SUBMIT RECORD DRAWINGS TO THE ARCHITECT/ENGINEER AND/OR OWNER FOR THE OWNER'S RECORDS. ORGANIZE INTO SETS AND BIND AND LABEL SET FOR THE OWNER'S CONTINUED USE.
6. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE OWNER, GENERAL CONTRACTOR AND ENGINEER.
7. CONTRACTOR SHALL GUARANTEE ALL ELECTRICAL WORK, INCLUDING PARTS AND LABOR, FOR A PERIOD OF ONE (1) YEAR AFTER FINAL WRITTEN ACCEPTANCE BY OWNER AND ENGINEER.
8. THIS CONTRACTOR SHALL PAY FOR ALL FEES, INSPECTIONS, TESTS, FINES, ETC., AS REQUIRED.
9. PRIOR TO COMMENCEMENT OF WORK, VERIFY MEASUREMENTS AT SITE. SUBMIT DISCREPANCIES AND DIFFERENCES TO ARCHITECT-ENGINEER FOR CONSIDERATION AND DECISION BEFORE PROCEEDING.
10. VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION OR INSTALLATION.
11. OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT, AND PROVIDE READY ACCESSIBILITY TO ELECTRICAL EQUIPMENT, INCLUDING ANY PART OF SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE AND OPERATIONS.
12. PROVIDE AN ACCURATE LAYOUT, GRADES AND ELEVATIONS; TAKE PROPER PRECAUTIONS TO PROTECT WORK AND EQUIPMENT FROM DAMAGE.
13. CUT ALL OPENINGS REQUIRED TO ACCOMMODATE THE WORK UNDER THIS CONTRACT, AND REPAIR ALL SURFACES, ETC., DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS. CONCRETE FLOOR OPENINGS SHALL BE CORE DRILLED. FIRE SEAL PENETRATIONS AS REQUIRED.
14. PROVIDE CODE APPROVED FIRE STOPPING AT ALL CONDUIT, PENETRATIONS THROUGH BUILDING CONSTRUCTION TO MAINTAIN FIRE, SMOKE AND SOUND RATINGS. FIRE SEAL ALL PENETRATIONS. SEAL TELECOMMUNICATION SLEEVES AFTER CABLES HAVE BEEN INSTALLED.
15. THE ELECTRICAL AND TELEPHONE SERVICE INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANY. CONTRACTOR SHALL COORDINATE SERVICE REQUIREMENTS WITH THE RESPECTIVE UTILITY COMPANY, PROVIDING ACCORDINGLY.
16. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHERS AS WELL AS PROVIDING TEMPORARY POWER
17. ALL MATERIAL SHALL BE NEW AND OF AMERICAN MANUFACTURE AND BEAR THE UNDERWRITERS'S LABORATORY AND UNION LABELS WHERE APPLICABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERY SCHEDULE OF MATERIAL.
18. ALL EQUIPMENT INSTALLED SHALL BE OF MANUFACTURE AND TYPE SPECIFIED. SUBMIT 6 SETS OF SHOP DRAWINGS AND PRODUCT DATA WITH ALL PERTINENT DATA AS SPECIFIED OR SCHEDULED. SUBMITTALS WITH INCOMPLETE INFORMATION WILL NOT BE REVIEWED UNTIL SUBMITTAL IS COMPLETE.
19. SUBMIT LAYOUT DRAWINGS FOR MAIN ELECTRICAL EQUIPMENT SPACES SUCH AS ELECTRICAL ROOMS, SWITCHBOARD ROOMS, MAJOR CONDUIT BANK RUNS, COMMUNICATION ROOMS, TELEPHONE ROOMS. THESE DRAWINGS SHALL BE SUBMITTED IN TIME FOR REVIEW PRIOR TO SUBMITTAL OF EQUIPMENT OF ELECTRICAL WORK.

- 20. VERIFY EQUIPMENT SIZES, VOLTAGE AND CURRENT CHARACTERISTICS, ETC., BEFORE THE ORDERING OF ANY EQUIPMENT AND BEFORE ROUGHING-IN FOR EQUIPMENT TO BE SUPPLIED BY OTHERS. NOTIFY ENGINEER OF ANY CONFLICTS.
21. PROVIDE A COMPLETE POWER CIRCUIT WIRING AND CONNECTIONS FOR EACH AND EVERY ITEM OF PERMANENT MECHANICAL EQUIPMENT. PRIOR TO ANY ROUGH-IN COORDINATE WITH HVAC AND PLUMBING EQUIPMENT NAMEPLATE TO OBTAIN CORRECT WIRE SIZE AND OVER CURRENT PROTECTION RATING. IF THE NAMEPLATE LABEL REQUIRES THE OVER CURRENT PROTECTION DEVICE TO BE FUSES, PROVIDE A FUSED SWITCH WITH PROPER SIZE FUSES AT THE EQUIPMENT LOCATION.
22. CORRECTION OF ANY DEFECTS, REPAIR OF DAMAGE DURING CONSTRUCTION AS WELL AS ANY MINOR CHANGES IN OUTLET LOCATIONS SHALL BE MADE WITHOUT ADDITIONAL COST.
23. GUTTERS, WIRE WAYS, PULL BOXES, ETC., SHALL BE GALVANIZED STEEL SIZED PER NATIONAL ELECTRICAL CODE. ARTICLE 312. MANHOLES AND EXTERIOR PULL BOXES SHALL BE SIZED PER NEC ARTICLE 376 AND OF A MATERIAL SUITABLE FOR THE ENVIRONMENTAL CONDITIONS PRESENT.
24. ALL WIRING SHALL BE IN RACEWAY.
A. OUTDOORS: USE THE FOLLOWING METHODS:
1. EXPOSED: RIGID STEEL OR IMC.
2. CONCEALED: RIGID STEEL OR IMC.
3. UNDERGROUND, SINGLE RUN: RNC.
4. UNDERGROUND, GROUPED: RNC.
5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR - DRIVEN EQUIPMENT): LFMC.
6. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OF TYPE 4.
B. INDOORS: USE THE FOLLOWING WIRING METHODS:
1. EXPOSED: EMT.
2. CONCEALED: EMT.
3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR - DRIVEN EQUIPMENT): FMC; EXCEPT IN WET OR DAMP LOCATIONS, USE LFMC.
4. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
5. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT AS FOLLOWS:
a. DAMP OR WET LOCATIONS: NEMA 250, TYPE 3R STEEL.
b. DAMP OR WET LOCATIONS: NEMA 250, TYPE 4, NONMETALLIC.
6. UNDERGROUND: RNC (SINGLE RUN OR GROUPED).
C. SEALING FITTINGS SHALL BE INSTALLED AT THE FOLLOWING POINTS, AND ELSEWHERE AS SHOWN.
1. WHERE REQUIRED BY THE NEC.
25. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL AND SHALL BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS. PROVIDE TYPED WRITTEN PANEL BOARD DIRECTORIES, AS PER NEC.
26. ALL POWER AND LIGHTING CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC 250-122. NEUTRAL CONDUCTOR SHALL BE TO AWG (MINIMUM CU-TW) IN ALL MULTICIRCUIT BRANCH CIRCUITS.
27. PROVIDE NYLON PULL STRINGS IN ALL EMPTY CONDUITS FOR FUTURE USE.
28. FURNISH AND INSTALL HEAVY DUTY DISCONNECT SWITCHES AS SHOWN AND REQUIRED FOR EQUIPMENT FURNISHED BY OTHERS. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE.
29. COLOR CODING OF CONDUCTORS: *
A. WIRING FOR 120/208 VOLT SYSTEM SHALL BE CODED AS FOLLOWS:
PHASE "A" - BLACK
PHASE "B" - RED
PHASE "C" - BLUE
NEUTRAL - WHITE
GROUND - GREEN
B. WIRING FOR 277/480 VOLT SYSTEM SHALL BE CODED AS FOLLOWS:
PHASE "A" - BROWN
PHASE "B" - PURPLE
PHASE "C" - YELLOW
NEUTRAL - GRAY
GROUND - GREEN
C. COLORS ON CONDUCTOR 6 AWG AND SMALLER SHALL BE INTEGRAL PART OF INSULATION, ON CONDUCTOR 4 AWG AND LARGER CONDUCTORS, EITHER COLOR CODING TAPE OR PAINTED WITH TWO COATS OF CORRECT COLOR PAINT AT ALL TERMINALS AND CONNECTION POINTS.
* UNLESS OTHERWISE REQUIRED BY APPLICABLE LOCAL CODES.
30. COORDINATION WITH OTHER TRADES:
A. PROVIDE COMPLETE AND PROPERLY FUNCTIONING ELECTRICAL SYSTEMS FOR THIS PROJECT. VISIT THE PROJECT SITE, EXAMINE THE CONDITION OF THE PREMISES, THESE PLANS AND ALL CONTRACT DOCUMENTS AND SPECIFICATIONS RELATING TO THE AREA OF WORK. REPORT ANY DISCREPANCIES OR OMISSIONS IN THIS PLAN SET TO THE ENGINEER FOR RESOLUTION AND CLARIFICATION PRIOR TO SUBMISSION OF BIDS. BY SUBMITTING A BID ON THIS PROJECT, THE CONTRACTOR ACCEPTS THESE DOCUMENTS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK. ADDITIONAL COSTS TO ACHIEVE THE INTENDED SCOPE OF WORK AS A RESULT OF ANY OF THESE CONDITIONS WILL NOT BE ACCEPTED.
B. SPECIAL ATTENTION SHALL BE GIVEN BUT NOT BE LIMITED TO NEW AND EXISTING SITE UTILITIES AND/OR FIELD CONDITIONS.
C. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LUMINAIRES (LIGHT FIXTURES).
D. VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR OR CEILING CONTRACTOR. PROVIDE LUMINAIRES (LIGHT FIXTURES) WHICH ARE COMPATIBLE WITH THE CEILING SYSTEM AND INCLUDE ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.
E. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND UTILITIES.
31. FINAL TESTING, ADJUSTMENTS AND ACCEPTANCE OF ELECTRICAL EQUIPMENT AND SYSTEMS:
A. INITIATE TESTING SCHEDULE AND CLEAR WITH ARCHITECT/ENGINEER AND/OR OWNER. DO NOT SCHEDULE OR TEST WITHOUT THIS CLEARANCE FURNISH ARCHITECT/ENGINEER AND/OR OWNER WITH NAME OF PERSON WHO WILL BE IN CHARGE OF TESTING, ENERGIZING AND STARTING UP. CONFER WITH ARCHITECT/ENGINEER AND/OR OWNER ON PROCEDURES TO BE FOLLOWED IN OBTAINING CLEARANCES FOR ELECTRICAL EQUIPMENT. ADHERE TO PROCEDURES AS FINALLY AGREED UPON.

- B. COMPIL COMPLETE TEST AND INSPECTION RECORDS AND INCORPORATE INTO A REPORT FOR EACH PIECE OF EQUIPMENT TESTED. RECORD ALL READINGS TAKEN. SUBMIT 4 COPIES TO ARCHITECT/ENGINEER AND/OR OWNER FOR REVIEW.
C. NOTIFY ARCHITECT/ENGINEER BY LETTER AT LEAST ONE WEEK PRIOR TO TEST, ESTABLISHING THE TIME TEST IS TO BE PERFORMED. PERFORM TESTS IN PRESENCE OF ARCHITECT/ENGINEER AND/OR OWNER.
D. FURNISH NECESSARY METERS, INSTRUMENTS, TEMPORARY WIRING AND LABOR TO PERFORM TESTS AND ADJUSTMENTS OF EQUIPMENT AND WIRING, INCLUDING ELECTRICAL EQUIPMENT FURNISHED BY OTHERS, TO DETERMINE PROPER POLARITY, PHASING, FREEDOM FROM GROUNDS AND SHORTS, RESISTANCE TO GROUND AND OPERATION OF EQUIPMENT. MEASURING INSTRUMENTS SHALL BE PROPERLY CALIBRATED AND CERTIFIED PRIOR TO USE.
E. DEMONSTRATE MATERIALS AND MANNER OF INSTALLATION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF STATE AND LOCAL PUBLIC AUTHORITIES, THE UTILITY COMPANIES AND NFPA.
F. ENERGIZE EQUIPMENT FOLLOWING ESTABLISHED PROCEDURES AFTER CERTIFICATION BY THE CONTRACTOR THAT THE INSTALLATION IS SATISFACTORY.
G. WIRING:
1. INVESTIGATE CIRCUITS SHOWING INSULATION RESISTANCE LESS THAN MINIMUM VALUES ESTABLISHED BY N.E.T.A. (NATIONAL ELECTRICAL TESTING ASSOCIATION.) CORRECT WEAK POINTS.
2. CORRECT OR REPLACE NOMINAL CURRENT-CARRYING CIRCUITS WHICH ARE DEFECTIVE OR GROUNDED. CORRECT OTHER TROUBLES ENCOUNTERED IN THESE TESTS.
H. BREAKERS: SET BREAKERS SO EQUIPMENT WILL BE IN PROPER OPERATING CONDITION BEFORE BEING PLACED IN SERVICE. PERFORM FINAL OPERATIONAL TESTS TO DETERMINE THAT WIRING CONNECTIONS ARE CORRECT.
I. MOTORS:
1. MAKE THESE TESTS ON MOTORS BEFORE START-UP: CHECK MOTOR NAMEPLATES FOR HP, SPEED, PHASE AND VOLTAGE.
2. MAKE THESE TESTS ON MOTORS DURING START-UP:
A. CHECK SHAFT ROTATION BEFORE FINAL CONNECTIONS ARE MADE.
B. TAKE A CURRENT READING AT FULL LOAD USING A CLAMP-ON AMMETER. IF AMMETER READING IS OVER THE RATED FULL LOAD CURRENT, DETERMINE REASON FOR THE DISCREPANCY AND TAKE CORRECTIVE ACTION.
3. AFTER ALL CONNECTIONS ARE MADE, TEST MOTORS AND EQUIPMENT FOR PROPER OPERATION. INVESTIGATE CAUSE OF ANY MOTOR OPERATING ABOVE FULL LOAD RATING AND REMOVE CAUSE, OR REPORT TO ARCHITECT/ENGINEER AND/OR OWNER. CHECK ROTATION OF MOTORS.
J. ACCEPTANCE: OBSERVATION OF THE OPERATION OF THE ELECTRICAL INSTALLATION AND EQUIPMENT BY THE ARCHITECT/ENGINEER AND/OR OWNER DOES NOT CONSTITUTE ACCEPTANCE OF THE WORK. ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, DEMONSTRATED THAT IT MEETS THE REQUIREMENTS OF THE CONTRACT DOCUMENT, AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES.
32. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK UNDER THIS CONTRACT NOT SHOWN IN THIS SET OF CONTRACT DOCUMENTS PROVIDING ACCORDINGLY.
33. ALL ELECTRICAL WORK SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.
34. ILLUMINATION GENERAL NOTES:
1. ALL FLUORESCENT LAMP BALLAST TO HAVE EXTERNAL "IN LINE" FUSES--SIZE AS RECOMMENDED BY MANUFACTURER.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRE (LIGHT FIXTURES).
3. ALL WIRING CHANNELS (FLUORESCENT AND INCANDESCENT) AND BAFFLES SHALL BE COLD ROLLED STEEL OF MINIMUM GAUGE, OR AS REQUIRED BY LOCAL CODE.
4. ALL SOCKETS SHALL BE OF THE PORCELAIN TYPE AND SHALL BE SECURELY MOUNTED TO CHANNELS WITH SCREWS. SPRING MOUNTED SOCKETS ARE NOT ACCEPTABLE. MANUFACTURER IS RESPONSIBLE FOR SUPPLYING CORRECT SOCKETS FOR LAMPS INDICATED FOR USE IN LUMINAIRE (LIGHT FIXTURE).
5. MANUFACTURER AND CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER VENTILATION AND TEMPERATURE CONDITIONS OF LUMINAIRES (LIGHT FIXTURES).
6. CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION FOR EACH LUMINAIRE (LIGHT FIXTURE) TYPE AND LOCATION AND SHALL COORDINATE TRIM DETAILS.
7. BY APPROVING AND SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS THAT THE CONTRACTOR HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO, AND HAS CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
8. ALL FLUORESCENT LAMPS, UNLESS OTHERWISE NOTED, SHALL HAVE A COLOR TEMPERATURE OF 3500K AND A MINIMUM COLOR RENDERING INDEX OF 85.
9. ALL FLUORESCENT AND HID LAMPS TO BE LOW MERCURY.
10. "CTBS" DENOTES COLOR TO BE SELECTED.
11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AT END OF CONSTRUCTION A CALIBRATED LIGHT METER AT TIME OF INSPECTION TO VERIFY THE LIFE SAFETY ILLUMINATION PHOTOMETRICS PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. IF THE CONTRACTOR CANNOT SECURE THE STRUCTURE TO PREVENT NATURAL LIGHT FROM ENTERING DURING THE TESTING OF THE EMERGENCY ILLUMINATION, AN INSPECTION AFTER NORMAL BUSINESS HOURS MAY BE REQUIRED AT THE CONTRACTOR EXPENSE.
35. EXTERIOR AREA LUMINAIRES NOTES:
A. FOR POLE MOUNTED LUMINAIRES CONTRACTOR SHALL, AS PART OF SHOP DRAWINGS SUBMITTAL, PROVIDE POLE MANUFACTURER'S CERTIFICATION THAT ENTIRE ASSEMBLY (POLE, BASE AND LUMINAIRES) COMPLIES WITH APPLICABLE WIND LOADING CODE REQUIREMENTS. THIS CERTIFICATION SHALL BE SIGNED AND SEALED BY A STRUCTURAL REGISTERED/LICENSED ENGINEER IN THE STATE WORK IS BEING EXECUTED.
B. AT THE COMPLETION OF WORK, AND AT HIS OWN EXPENSE, CONTRACTOR SHALL HAVE REQUIRED AREAS TESTED BY A REGISTERED/LICENSED ENGINEER IN THE STATE THIS WORK IS BEING EXECUTED, TO DEMONSTRATE COMPLIANCE WITH ILLUMINATION LEVEL DESIGN REQUIREMENTS AND APPLICABLE BUILDING CODES. ONCE INSTALLED INSTALLATION IS TESTED AND COMPLIANCE DEMONSTRATED, CONTRACTOR AS PART OF THIS CONTRACT, SHALL SUBMIT CERTIFICATION SIGNED AND SEALED BY THE REGISTERED/LICENSED ENGINEER PERFORMING THE TEST, ATTESTING THAT "THE LIGHTING INSTALLATION IS IN COMPLIANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES."
C. ALL EXTERIOR LIGHTS SHALL BE FWC APPROVED TURTLE LIGHTING.

- 36. FIRE ALARM SYSTEM NOTES:
A. THE CONTRACTOR, AS PART OF THIS CONTRACT AND AT ITS OWN EXPENSE, SHALL SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE. THIS WORK IS BEING EXECUTED, SHOWING CALCULATIONS, DEPICTING EVERY DEVICE AND ALL WIRING NECESSARY FOR A COMPLETE FIRE ALARM SYSTEM AS REQUIRED BY THE BUILDING AND/OR FIRE DEPARTMENT OFFICIALS FOR PERMITTING AND APPROVAL.
B. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE THE COST OF FURNISHING AND INSTALLING 10X EXTRA FIRE ALARM DEVICES AT LOCATIONS THAT WILL BE SELECTED AT A LATER DATE. DEVICES NOT UTILIZED WILL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE WORK.
C. AFTER COMPLETION OF NEW WORK A REACCEPTANCE TEST OF THE FIRE ALARM SYSTEM SHALL BE PERFORM AS SET FORTH IN NFPA 72, ARTICLE 7.1.6.2.
D. WHEN IN - DUCT SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS, PROVIDE REMOTE ANNUNCIATOR AS PER NFPA 72, CHAPTER 5, PARAGRAPH 5.1.4.5.8.
E. THE LOCATION OF DUCT DETECTORS SHALL BE AS PER NFPA 72, CHAPTER 5, PARAGRAPH 5.1.4.5.
37. ELECTRONIC FILES - SUBMITTAL PROCEDURES:
A. GENERAL: IF REQUESTED BY OWNER OR CONTRACTOR, ELECTRONIC COPIES OF CAD FILES OF THE CONTRACT DRAWINGS WILL BE PROVIDED BY ARCHITECT FOR CONTRACTOR'S USE IN PREPARING SUBMITTALS. A STIPULATED SUM WILL BE CHARGED TO THE REQUESTING PARTY FOR THIS SERVICE.
B. ONLY ARCHITECTURAL BACKGROUNDS, SUCH AS FLOOR PLANS AND REFLECTED CEILING PLANS, SHALL BE PROVIDED FOR THE PURPOSE OF PRODUCING SHOP DRAWINGS.
C. THERE WILL BE A STANDARD "CONDITIONS OF USE AGREEMENT" THAT WILL NEED TO BE SIGNED AND THE FOLLOWING CHARGES WILL APPLY FOR PROVIDING ELECTRONIC FILES:
\$50.00 PER ELECTRONIC DRAWING FILE PREPARED AND DELIVERED.
\$350.00 PER ORDER FOR ADMINISTRATIVE PROCESS.
38. EXISTING CONDITIONS: (WHERE APPLICABLE).
A. ALL ALTERATIONS, DEMOLITION AND REMOVAL, CUTTING AND PATCHING AND OTHER WORK NECESSARY FOR CONSTRUCTION OF THIS CONTRACT SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER. THIS SHALL INCLUDE REMOVAL, REROUTING, ETC. OF ALL ELECTRICAL ITEMS REQUIRED TO COMPLETE INSTALLATION INTENDED.
B. PATCH OR REPLACE ALL DAMAGED SURFACES ALTERED TO ACCOMMODATE THE NEW CONSTRUCTION. PATCHED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES.
C. ALL CUTTING, PATCHING, DEMOLITION, REPAIRING, REPLACING ETC. NECESSARY UNDER THIS CONTRACT SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. WHERE APPLICABLE COORDINATE WORK WITH UTILITY COMPANIES, LOCAL AND STATE AUTHORITIES HAVING JURISDICTION, OWNER'S REPRESENTATIVES AND ALL APPLICABLE CODES.

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ISSUE

Table with 3 columns: MARK, DATE, DESCRIPTION

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KEY PLAN

SHEET TITLE

ELECTRICAL
GENERAL NOTES

E0.2.00