GENERAL ELECTRICAL NOTES

1. MATERIALS, EQUIPMENT, AND SYSTEMS SHALL BE UL LISTED WHEN APPLICABLE AND SHALL MEET ALL PERTINENT REQUIREMENTS OF THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM), NATIONAL ELECTRICAL CODES (NEC), THE UNDERWRITERS LABORATORY (UL), THE NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION (NEMA), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AND OTHER NATIONALLY RECOGNIZED AGENCIES AS WELL AS APPLICABLE LOCAL CODES.

2. ANYTHING DRAWN OR SPECIFIED SHALL NOT BE CONSTRUED TO CONFLICT WITH ANY LOCAL MUNICIPAL OR STATE LAW, REGULATION OR ORDINANCE WHICH GOVERNS THE INSTALLATION OF ANY ELECTRICAL OR RELATED WORK. ITEMS SHALL NOT BE INSTALLED IN CONFLICT WITH THE NEC OR LOCAL UTILITY. RESOLVE ANY AND ALL CONFLICTS BEFORE INSTALLATION AT NO ADDITIONAL EXPENSE TO THE OWNER.

3. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED AND LABELED FOR THE QUALIFIED USE. CIRCUIT BREAKER INTERRUPT CAPACITY SHALL EQUAL OR EXCEED AVAILABLE FAULT CURRENT FROM UTILITY. SHORT CIRCUIT RATINGS INDICATED ON SCHEDULES ARE FOR ESTIMATING PURPOSES ONLY, PROVIDE HIGHER RATINGS WHEN REQUIRED BY UTILITY. AFTER INSTALLATION IS COMPLETE, BALANCE CIRCUIT LOADS EQUALLY (+/– 10%) ON ALL PHASES AT EACH PANEL.

4. THE SYSTEMS SHOWN ON DRAWINGS SHALL BE PROVIDED TO SERVE ALL FIXTURES. EQUIPMENT, AND AREAS WITHIN THE CONTRACT LIMIT LINES AS SET FORTH BY THE ARCHITECTURAL SOLUTION FOR THE PROJECT. THE BIDDING AND CONTRACT REQUIREMENTS, GENERAL REQUIREMENTS, AND GENERAL PROVISIONS SHALL APPLY TO THIS SECTION. SYSTEMS SHALL INCLUDE ALL EQUIPMENT, APPURTENANCES, SAFETY DEVICES AND CONTROLS NECESSARY FOR THE INTENDED SERVICE. PROVIDE ALL LABOR AND MATERIALS FOR A CODE COMPLIANT COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM FOR THE CONTRACT WORK AREAS INDICATED ON THE ELECTRICAL DRAWINGS.

5. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER. PROVIDE ALL CONDUIT OFFSETS AND MISC. MATERIALS REQUIRED TO COORDINATE WITH BUILDING COMPONENTS AND WORK OF OTHER TRADES.

6. PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR COMPLETE INSTALLATION OF THE INDICATED SYSTEMS AND EQUIPMENT ACCORDING TO THE NEC AND MANUFACTURER'S RECOMMENDATIONS.

7. ALL EQUIPMENT SHALL BE NEW AND UNUSED. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT CONFORMANCE TO MANUFACTURERS RECOMMENDATIONS, EXCEPT WHERE CONTRACT DOCUMENTS REQUIRE A HIGHER QUALITY INSTALLATION THAN RECOMMENDED BY THE MANUFACTURER.

8. ALL INSTALLED SYSTEMS, DEVICES AND RELATED ITEMS SHALL BE TESTED IN PLACE ON SITE. REPLACE ANY AND ALL CONTRACTOR–SUPPLIED DEFECTIVE DEVICES, ITEMS OR SYSTEMS AT CONTRACTORS OWN EXPENSE BEFORE COMPLETION OF THE PROJECT. SUBMIT STARTUP REPORTS TO ENGINEER.

9. PROVIDE ALL REMOVALS AND RELOCATION'S AS REQUIRED TO COMPLETE THE NEW WORK. REMOVE EXISTING CONSTRUCTION TO THE EXTENT REQUIRED TO PROVIDE NEW CONSTRUCTION WORK UNLESS OTHERWISE NOTED.

10. PROVIDE EMT CONDUIT AND GALVANIZED BOXES WHERE CONCEALED OR EXPOSED UNLESS NOTED OTHERWISE. PROVIDE EMT WITH COMPRESSION FITTINGS IN AND ABOVE SERVICE AREAS, GARAGES, MECHANICAL ROOMS, KITCHEN AREAS AND IN WET LOCATIONS. PROVIDE RIGID GALVANIZED STEEL (RGS) OR SCH80 PVC CONDUIT FOR EXPOSED OUTDOOR INSTALLATIONS INSTALLED BELOW 7'–0" AFF. PROVIDE RGS OR SCH 80PVC CONDUIT FOR ALL BURIED APPLICATIONS. ALL CIRCUITS SHALL HAVE AN INSULATED GREEN GROUNDING CONDUCTOR. ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE. MC CABLE MAY BE NOT BE USED. ADAPT NEW CONDUITS TO EXISTING CONDUIT, FASTENERS AND BOXES WHEN CONNECTING TO EXISTING. PROVIDE LIQUID TIGHT FLEX WHIP AT MOTORIZED OR MOVABLE EQUIPMENT IN WET AREAS, FOOD PREP AREAS AND OUTDOORS. PROVIDE METAL FLEX CONDUIT WHIP TO MOTORIZED EQUIPMENT IN ALL OTHER INDOOR DRY AREAS. MAXIMUM WHIP LENGTH SHALL BE 6'–0".

11. VERIFY FINAL LOCATIONS FOR ROUGH–INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.

12. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING–IN THE BUILDING. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIALS. COORDINATE DELIVERY OF EQUIPMENT AND FIXTURES TO ACCOMMODATE THE PROJECT CONSTRUCTION SCHEDULE. SUBMIT NONPROPRIETARY EQUIPMENT BY EQUAL MANUFACTURER'S UNLESS SPECIFIED OTHERWISE. ENGINEER SHALL HAVE FINAL DETERMINATION AS TO EQUIVALENCE OF SUBMITTED PRODUCTS.

13. COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH SUSPENSION SYSTEM, MECHANICAL EQUIPMENT AND SYSTEMS, AND STRUCTURAL COMPONENTS. COORDINATE ELECTRICAL EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. PROVIDE WATER TIGHT BUILDING ENVELOPE AND ROOF PENETRATIONS.

14. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL ELECTRICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE. INSTALL ELECTRICAL EQUIPMENT TO FACILITATE MAINTENANCE AND REPAIR OR REPLACEMENT OF EQUIPMENT. EXPOSED EXTERIOR CONDUIT IS NOT PERMITTED ON EXTERIOR FACES OF BUILDING, ON SITE LIGHT FIXTURES OR POLES, ON THE SITE PROPERTY OR INSIDE FINISHED AREAS UNLESS NOTED OTHERWISE.

15. ALL DEBRIS SHALL BE REMOVED FROM THE WORK AREAS AND OCCUPIED AREAS AT THE END OF EACH DAY. ON SITE STORAGE OF MATERIALS SHALL BE AS DIRECTED AND APPROVED BY THE OWNER. ALL MATERIALS THAT ARE COMBUSTIBLE, OR NOT FIRE RETARDANT (SUCH AS WIRE AND SOLVENTS) SHALL BE REMOVED FROM THE PROJECT SITE AT THE END OF EACH WORK DAY UNLESS STORAGE AREAS ARE APPROVED BY THE CONSTRUCTION MANAGER. LEGALLY DISPOSE OF ALL UNWANTED DEMOLITION AND CONSTRUCTION DEBRIS. SUCH DEBRIS SHALL BECOME PROPERTY OF THE CONTRACTOR.

16. ALL FIRE ALARM WORK SHALL BE PROVIDED BY A LICENSED FIRE ALARM TECHNICIAN. FIRE ALARM SYSTEM SHALL BE RECERTIFIED PER NFPA 72 AT COMPLETION OF ALL WORK BY A LICENSED TECHNICIAN. ACCEPTANCE TESTING SHALL BE WITNESSED BY A VA REPRESENTATIVE. SUBMIT ALL NFPA 72 REPORTS TO OWNER.

17. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR A COMPLETE INSTALLATION. FIRE STOP ALL PENETRATIONS WITH APPROVED FIRE SEALANT; INCLUDE ALL SLEEVES. PATCH AND PAINT EXISTING SURFACES TO MATCH EXISTING.

18. PERMANENTLY LABEL ALL NEW PANELS, STARTERS, JUNCTION BOXES, CONTROLLERS, DISCONNECT AND SAFETY SWITCHES, REMOTE CONTROLS AND LIGHTING CONTROLS WITH ENGRAVED PLASTIC ADHESIVE LABELS. PROVIDE UV AND WEATHER RESISTANT LABELS FOR OUTDOOR USE. PROVIDE ARC FLASH WARNING SIGNS AS INDICATED IN NFPA 70E.

19. PROVIDE SPECIFICATION HOSPITAL GRADE 20AMP COMMERCIAL RECEPTACLES AND SWITCHES FOR ALL LOCATIONS UNLESS INDICATED OTHERWISE. SINGLE GANG DIMMER SWITCHES TO HAVE THE LOWER OF 20% EXCESS WATTAGE CAPACITY OR 1800WATTS UNLESS NOTED OTHERWISE. PROVIDE RECESSED BOXES WITH COVER PLATE AND DEVICE COLOR AS COORDINATED WITH OWNER IN ALL FINISHED AREAS PROVIDE SURFACE MOUNT GALVANIZED BOXES AND COVERS IN STORAGE AND EQUIPMENT ROOM AREAS. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFI) RECEPTACLES WITHIN 6FT OF ALL SINKS AND WET LOCATIONS, IN KITCHENS, BARS AND FOOD PREP AREAS, IN TOILET ROOMS, JANITOR CLOSETS, UTILITY ROOMS, ELECTRIC ROOMS, CLOSETS, GARAGE AREAS, AND FOR MAINTENANCE OF MECHANICAL EQUIPMENT.

20. ALL NEW 120–VOLT 20 AMPERE RECEPTACLES THROUGHOUT PEDIATRIC AREAS OF HOSPITALS AND CHILD WAITING ROOMS OF ALL BUILDINGS SHALL BE CHILD TAMPER–RESISTANT.

21. PROVIDE TYPE WRITTEN PANEL BOARD SCHEDULES AT ALL NEW PANELBOARDS. UPDATE AND PROVIDE TYPE WRITTEN PANELBOARD SCHEDULES AT EXISTING PANELS WHEN NEW CIRCUITS ARE ADDED. INCLUDE WHERE PANEL IS FED FROM. PROVIDE TWO EXTRA CIRCUIT DIRECTORY COPIES TO OWNER.

22. ALL CIRCUIT BREAKERS FOR LIGHTING CIRCUITS AND EXTERIOR RECEPTACLES SHALL BE SWD OR HID RATED AS APPLICABLE. ALL CIRCUIT BREAKERS FOR AIR CONDITIONING AND REFRIGERATION EQUIPMENT SHALL BE HACR RATED.

23. FIELD VERIFY THAT MINIMUM WORKING SPACE AND CLEARANCE ARE MAINTAINED AT ALL NEW PANELBOARD AND ELECTRICAL EQUIPMENT INSTALLATIONS. COORDINATE WITH OTHER TRADES AND DO NOT PERMIT PIPING AND DUCTS TO PASS OVER PANELBOARDS AND ELECTRICAL EQUIPMENT WITHOUT PROPER PROTECTION.

24. ALL INSTALLED SYSTEMS, DEVICES AND RELATED ITEMS SHALL BE TESTED IN PLACE ON SITE. REPLACE ANY AND ALL CONTRACTOR–SUPPLIED DEFECTIVE DEVICES, ITEMS OR SYSTEMS AT CONTRACTORS OWN EXPENSE BEFORE COMPLETION OF THE PROJECT. VERIFY CORRECT ROTATION OF ALL 3–PHASE MOTORS. BE AVAILABLE DURING INITIAL STARTUP OF ALL EQUIPMENT ELECTRICALLY CONNECTED UNDER THIS CONTRACT WHETHER OR NOT START UP SERVICE IS BY OTHERS. ARRANGE WITH OWNER TO ENSURE EACH PIECE OF EQUIPMENT ELECTRICALLY CONNECTED UNDER THIS CONTRACT IS STARTED AND CHECKED FOR PROPER ELECTRICAL OPERATION.

25. INSPECT EXISTING EQUIPMENT TO BE RELOCATED PRIOR TO ITS REMOVAL. NOTIFY OWNER OF MALFUNCTIONING EQUIPMENT. RESTORE ALL EQUIPMENT TO ITS PRECONSTRUCTION OPERATING CONDITION AFTER RELOCATION. RESTORE CIRCUITS AND CONNECTED DEVICES OF REMOVED OR RELOCATED EQUIPMENT TO ITS PRECONSTRUCTION WORKING ORDER.

26. PAY EXPRESS SHIPPING OR OVERNIGHT CHARGES FOR NEW REPAIR PARTS.

27. COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH SUSPENSION SYSTEM, MECHANICAL EQUIPMENT AND SYSTEMS, AND STRUCTURAL COMPONENTS. COORDINATE ELECTRICAL EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS. PROVIDE WATER TIGHT BUILDING ENVELOPE AND ROOF PENETRATIONS.

28. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CORRESPONDENCE AND FOLLOW–UP CORRESPONDENCE WITH ALL APPROPRIATE PARTIES IN ORDER TO MAINTAIN THE PROJECT CONSTRUCTION AND DELIVERY SCHEDULE. CONTRACTOR SHALL DELIVER SUBMITTALS WITH ADEQUATE REVIEW TIME PER SPECIFICATIONS AS NEEDED TO ORDER EQUIPMENT. FAXED SUBMITTALS WILL NOT BE ACCEPTED. "RUSH" REVIEW OF SUBMITTALS MAY NOT BE PROVIDED SIMPLY AS A MEANS TO ACCELERATE DELIVERY SCHEDULES. PROVIDE EQUIVALENT PRODUCTS BY OTHER THAN SPECIFIED MANUFACTURERS, WHEN APPROVED BY ENGINEER, AS NEEDED TO MEET THE CONSTRUCTION SCHEDULE UNLESS EQUIVALENT MANUFACTURERS ARE PROHIBITED, OR A SELECT GROUP OF MANUFACTURERS ARE GIVEN.

29. MINOR ITEMS OF WORK SUCH AS CUTTING, BLOCKING, TRIM, ETC., SHALL BE PERFORMED AS REQUIRED TO MAKE THE WORK COMPLETE AND SECURE WHETHER SHOWN OR NOTED ON THE CONTRACT DOCUMENTS OR NOT.

30. THE ARCHITECT / ENGINEER SHALL HAVE THE RIGHT AT ALL TIMES TO EXAMINE THE WORK AND DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS AND INTENT OF THE CONTRACT DOCUMENTS AS INTERPRETED BY THE ARCHITECT / ENGINEER.

31. PORTIONS OF THE WORK ARE BASED ON BUILDING DRAWINGS PREPARED BY OTHERS. CONTRACTOR SHALL VISIT THE PROJECT SITE AND REVIEW ALL DRAWINGS BY OTHER TRADES BEFORE SUBMITTING BID AND SHALL BECOME FAMILIAR WITH THE PROJECT CONDITIONS. THE CONTRACTOR SHALL ADVISE THE ARCHITECT / ENGINEER PRIOR TO BID OF DISCREPANCIES WHICH WILL PROHIBIT THE PREPARATION OF AN ALL–INCLUSIVE BID OR COST PROPOSAL.

32. FIRE STOP ALL PENETRATIONS OF FIRE–RATED WALLS, CEILINGS, OR FLOOR CONSTRUCTION WITH ROCK WOOL INSULATION OR OTHER UL LISTED PRODUCTS. COMPLETELY SEAL VOIDS WITH FIRE–RATED MATERIALS. FULL THICKNESS OF THE CONSTRUCTION ELEMENTS OR AS INSTRUCTED BY PRODUCT MANUFACTURER. PROVIDE UL LISTED FIRE RATED BOXES FOR RECESSED BOXES IN RATED WALLS AND CEILINGS. FIRE RATED WALLS SHALL INCLUDE ALL CORRIDOR WALLS, STAIRWELLS AND ALL PARTITIONS THAT EXTEND TO UNDERSIDE OF DECK ABOVE. SEE ARCHITECTURAL DRAWINGS FOR RATED PARTITION AND RATED CEILING TYPES.

33. ALL CONSTRUCTION, SURFACES, FINISHES, ETC. ALTERED OR EXPOSED BY ANY DEMOLITION, REMOVAL OR INSTALLATION SHALL BE REPAIRED OR REPLACED AS NECESSARY, SYSTEMATICALLY CLEANED, PRIMED, AND FINISHED TO PROVIDE A MATCHING, FINISHED APPEARANCE WITH THE SURROUNDING EXISTING CONDITIONS; EXAMPLE: CHANNELED EXISTING FLOOR SLABS TO INSTALL PIPING SHALL BE RESTORED TO MATCH SURROUNDING FLOOR FINISH, LAWNS SHALL BE RESEEDED AFTER BURIAL OF PIPE OR CONDUIT (BY CONTRACTOR OR UTILITY CO. RETAINED BY CONTRACTOR).

34. PROVIDE TEMPORARY PROTECTION FROM THE EXTERIOR WHERE TEMPORARY REMOVAL WORK RENDERS INTERIOR SURFACES EXPOSED TO WEATHER OR FREEZING CONDITIONS.

35. PRIOR TO START OF ALL WORK, COORDINATE THE REMOVAL, STORAGE AND / OR DISPOSAL OF INCIDENTAL ITEMS NOT PERMANENTLY AFFIXED TO THE BUILDING WITH THE OWNER. OWNER HAS THE RIGHT OF FIRST REFUSAL ON ALL SALVAGE ITEMS.

36. WHERE EXISTING SUBSTRATE CONSTRUCTION IS NOT SECURELY FASTENED, REFASTEN AS NECESSARY TO ADEQUATELY SECURE EXISTING CONSTRUCTION FOR ITS INTENDED USE.

37. NOTIFY AND COORDINATE WITH OWNER BEFORE USING ANY VOLATILE OR FUME PRODUCING COMPOUNDS SUCH AS DUCT SEALANT, CLEANING FLUIDS AND INSULATION GLUE. PROVIDE MEANS OF TEMPORARY VENTILATION.

38. ALL NONPROPRIETARY MATERIALS SHALL BE AS SPECIFIED OR EQUAL AS APPROVED BY ARCHITECT / ENGINEER. SPECIFIC MATERIALS SPECIFIED IS MEANT TO INDICATE QUALITY INTENT WHICH WILL BE USED AS A BASIS FOR COMPARISON WITH SUBSTITUTES SUBMITTED FOR APPROVAL. THE DECISION AS TO WHAT IS EQUAL IS TO BE DETERMINED BY THE ARCHITECT / ENGINEER.

39. PROVIDE APPLICABLE SUBMITTALS FOR EQUIPMENT AND FIXTURES TO ENGINEER FOR REVIEW BEFORE ORDERING EQUIPMENT. COORDINATE SCHEDULING OF WORK TO ALLOW A MINIMUM OF TWO TO THREE WEEKS FOR REVIEW TIME PLUS DELIVERY TIME. FAXED SUBMITTALS WILL NOT BE ACCEPTED. INADEQUATE SUBMITTALS WILL BE RETURNED FOR RESUBMISSION. SUBMITTALS WILL BE DEEMED INADEQUATE IF THEY ARE THE WRONG PRODUCT, INCORRECT NUMBER OF COPIES OR DO NOT SPECIFY WHICH PRODUCT IS BEING SUBMITTED WHEN MULTIPLE PRODUCTS ARE INCLUDED WITH MANUFACTURER'S DATA. SUBMITTALS MARKED AS MAKE CORRECTIONS NOTED MAY BE CONSIDERED SUITABLE FOR ORDERING EQUIPMENT IF CORRECTIONS ARE COMPLIED WITH. PROVIDE ALTERNATE OR EQUIVALENT MANUFACTURERS WHEN REQUIRED FOR DELIVERY TO MEET THE CONSTRUCTION SCHEDULES. ENGINEER SHALL DETERMINE IF A PRODUCT IS EQUIVALENT. CONTRACTOR SHALL VERIFY THAT EQUIVALENT PRODUCTS HAVE THE PROPER SUPPORT AND CLEARANCES NEEDED FOR INSTALLATION. SUBMIT OPERATION AND MAINTENANCE MANUALS AT THE TIME OF SUBSTANTIAL COMPLETION.

40. ENGINEER'S REVIEW OF SUBMITTALS AND SHOP DRAWINGS CALLED FOR IN THE CONTRACT DOCUMENTS IS TO DETERMINE IF THE CONTRACTOR UNDERSTANDS THE CONTRACT DOCUMENTS. SUBMITTAL OR SHOP DRAWING REVIEW IS NOT INTENDED TO ASSURE THAT THE CONTRACTOR IS MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ENGINEER'S REVIEW OF SUBMITTALS DOES NOT RELIEVE CONTRACTOR'S OBLIGATION FOR SUPPLYING CORRECT VOLTAGE, QUANTITIES, MOUNTING DETAILS OR OTHER MEANS AND METHODS OF CONSTRUCTION. ENGINEER'S REVIEW OF SHOP DRAWINGS AND SUBMITTALS DOES NOT ASSUME RESPONSIBILITY FOR ANY ASPECTS OF A SHOP DRAWING SUBMISSION THAT AFFECT THE MEANS, METHODS, QUANTITIES, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION OR FOR SAFETY PRECAUTIONS (ALL OF WHICH ARE ASSUMED TO BE THE CONTRACTOR'S RESPONSIBILITY).

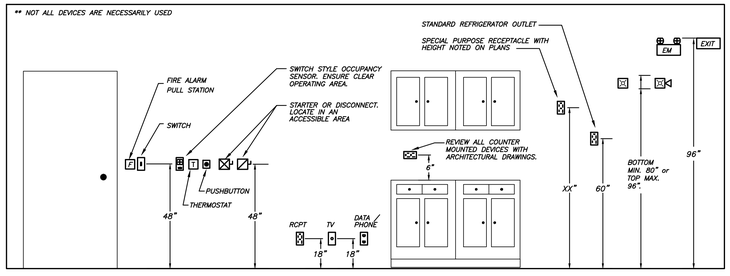
41. EQUIPMENT CONTROL PANELS, FACTORY EQUIPMENT CONTROL PANELS AND LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM SCCR OF 35KA AND THE SCCR RATING SHALL BE LISTED ON THE PANEL.

42. ALL JUNCTION BOXES AND WIREWAYS SHALL BE ACCESSIBLE AND LABELED WITH PANEL AND CIRCUIT NUMBER.

43. THE USE OF MULTIWIRE BRANCH CIRCUITRY IS STRICTLY PROHIBITED. PROVIDE DEDICATED NEUTRAL FOR ALL 120V SINGLE PHASE CIRCUITS.

44. ALL RECEPTACLES AND SWITCHES SHALL BE LABELED WITH PANEL NAME AND CIRCUIT NUMBER WITH MACHINERY PRINTED ADHESIVE LABEL. SUBMIT SAMPLE TO COR PRIOR TO INSTALLATION. HAND WRITTEN LABELS WILL NOT BE ACCEPTED.

FIRST SEE ARCHITECTURAL LARGE SCALE PLANS, INTERIOR ELEVATIONS AND FINISH DETAILS FOR MOUNTING LOCATIONS. HEIGHTS BELOW ARE FOR GENERAL LOCATIONS NOT SPECIFICALLY CALLED OUT ON OTHER PLANS. DO NOT USE THIS DETAIL FOR ROUGH IN OF GUEST ROOMS -- SEE PART PLANS AND ARCHITECTURAL PLANS.



NOTE:

FOR RECEPTACLES, DATA, SWITCHES, PULL STATIONS AND OTHER SIMILAR WIRING DEVICES THAT ARE INTENDED FOR NORMAL USE BY THE BUILDING OCCUPANTS, FIELD VERIFY THAT PULL STATIONS, SWITCHES, RECEPTACLES, DATA AND OTHER SIMILAR WIRING DEVICES HAVE AN APPROACH AREA 30" WIDE AND 48" DEEP FROM THE WALL BEFORE ROUGHING IN DEVICE.

1 / E0.1 MOUNTING HEIGHTS FOR WALL MOUNTED ELECTRICAL DEVICES

SCALE: NOT TO SCALE

SYMBOL LIST

- SINGLE RECEPTACLE (120 VOLT)
- DUPLEX RECEPTACLE (120 VOLT)
- 42" COUNTERTOP DUPLEX RECEPTACLE (120 VOLT)
- WP WEATHERPROOF RECEPTACLE
- GFI OR GFCI G GROUND FAULT RECEPTACLE
- IG ISOLATED GROUND RECEPTACLE
- MW MICROWAVE RECEPTACLE–MOUNT BEHIND MW CABINET PER INSTALLATION INSTRUCTIONS. GFCI IF COUNTER MOUNT. NON–GFCI IF MOUNTED IN CABINET.
- TR PEDIATRIC TAMPER RESISTANT
- TV TV OUTLET MOUNTED AT ELEVATION SHOWN ON ARCHITECTURAL INTERIOR ELEVATIONS.
- DOUBLE DUPLEX RECEPTACLE
- COUNTER MOUNTED RECEPTACLE
- SPECIAL EQUIPMENT RECEPTACLE
- JUNCTION BOX
- $ SINGLE–POLE SWITCH
- INDICATES LIGHT FIXTURE GROUP SWITCHING — $3 THREE–WAY SWITCH
- $D SLIDER DIMMER – 1200W FLUORESCENT RATED
- $TM TIMER SWITCH
- $M MOTOR RATED TOGGLE DISCONNECT SWITCH
- CATV CABLE TV F–CONNECTOR WALL JACK WITH RG6 COAX CABLE BACK TO SPLITTER U.N.O.
- C FLOOR OUTLET WITH DUPLEX GFCI RECEPTACLE
- C FLOOR OUTLET WITH DOUBLE DUPLEX GFCI RECEPTACLES
- FLOOR OUTLET WITH DUPLEX RECEPTACLE
- FLOOR OUTLET WITH DOUBLE DUPLEX RECEPTACLES

SEE LUMINAIRE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

- HOME RUN POWER CIRCUIT BACK TO PANEL.
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH – PROVIDE FUSES
- FUSED DISCONNECT SWITCH – PROVIDE FUSES
- COMBINATION STARTER
- EQUIPMENT POINT OF CONNECTION
- TC TIME CLOCK RATED FOR 20AMP HID/INDUCTIVE LOADS
- PC SOCKET STYLE PHOTOCELL COMPATIBLE WITH TIME CLOCK UNIT.
- EQUIPMENT GROUNDING CONDUCTOR
- PHASE (HOT)
- NEUTRAL (GROUND)
- TELEPHONE JACK
- TW TELEPHONE WALL JACK
- DATA JACK
- COMBINATION TELEPHONE AND DATA JACK

ABBREVIATIONS

A	AMPS OR AMPERE
AFF	ABOVE FINISHED FLOOR
C/B	CIRCUIT BREAKER
C	CONDUIT
CONT	CONTINUED
DN	DOWN
DDC	DIRECT DIGITAL CONTROL
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMT	ELECTRICAL METALLIC TUBING
EXIST.	EXISTING
FLA	FULL LOAD AMPS
FLR	FLOOR
FT	FEET
G	GROUND OR GROUND CONDUCTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GC	GENERAL CONTRACTOR
KW	KILOWATT
MIN.	MINIMUM
MC	MECHANICAL CONTRACTOR
NC	NORMALLY CLOSED
NL	UNSWITCHED LIGHT FIXTURE WIRED AS NIGHT LIGHT
NO	NORMALLY OPEN
ø, PH	PHASE
RGS	RIGID GALVANIZED STEEL CONDUIT
RPM	REVOLUTIONS PER MINUTE
TCGB	TELECOMMUNICATIONS GROUND BAR
TMGB	TELECOM MAIN GROUND BAR
TYP	TYPICAL FOR ALL SIMILAR ITEMS OR CIRCUMSTANCES
U.N.O.	UNLESS NOTED OTHERWISE
BMS,DDC,EMS	BUILDING ENERGY MANAGEMENT SYSTEM
V	VOLTAGE OR VOLTS

Revisions:	Date
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