

30 x 42

GENERAL ELECTRICAL PROJECT NOTES

GENERAL:

- 1. VERIFY ALL DOOR SWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN LIGHT SWITCHES TO INSURE PROPER LOCATION. VERIFY ALL CASEWORK HEIGHTS TO INSURE THAT ALL OUTLETS ABOVE CASEWORK ARE AT THE PROPER HEIGHT.
2. VERIFY THE EXACT LOCATION OF ALL MOTORS AND EQUIPMENT OF ELECTRICAL AND OTHER TRADES BEFORE ROUGHING IN ELECTRICAL WORK. ALSO ADVISE OTHER TRADES OF THE LOCATIONS OF ELECTRICAL WORK WHICH WILL AFFECT THEIR WORK, PRIOR TO THE INSTALLATION OF THE ELECTRICAL WORK. COORDINATE LIGHT FIXTURE LOCATION WITH OTHER TRADES AND ARCHITECTURAL.
3. ALL DIMENSIONS AFFECTING ELECTRICAL WORK ARE TO BE CAREFULLY CHECKED AND VERIFIED WITH THE GENERAL CONTRACTOR BEFORE ANY WORK IS DONE.
4. UNLESS OTHERWISE NOTED IN THE WRITTEN SPECIFICATIONS OR ON THE DRAWINGS, ALL ELECTRICAL WORK AND ELECTRICAL EQUIPMENT ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS FOR ALL THE FOLLOWING ELECTRICAL DEVICES OR SYSTEMS: FIRE ALARM, SWITCHGEAR, LIGHTING, WIRING DEVICES, FUSES, FIRESTOPPING, AND WIRE TO BE USED ON THE PROJECT. NOTE THAT NO ITEMS WILL BE REVIEWED UNTIL ALL SUBMITTALS ARE RECEIVED. CONTRACTOR RESPONSIBLE FOR PROJECT DELAYS DUE TO INCOMPLETE SUBMITTAL PACKAGES.
6. FIRE WALL MEMBRANE PENETRATIONS SHALL CONFORM WITH IBC 2006.

WIRE/CONDUIT:

- 1. ELECTRICAL CONTRACTOR IS TO PROVIDE CONDUITS AND BOXES FOR THERMOSTAT AND SENSOR LOCATIONS. COORDINATE WITH MECHANICAL FOR LOCATIONS, MOUNTING HEIGHTS, BOXES, & CONDUIT SIZE. PROVIDE MEASURED PULL STRINGS. STUB OUT IN 1/2".
2. PROVIDE MEASURED PULL STRINGS IN ALL CONDUIT TO BE LEFT EMPTY.
3. ALL 120V, 20A HOMERUNS 50' TO 100' SHALL BE #10 AWG; ALL RUNS 100' TO 200' ARE TO BE #8 AWG.
4. PROVIDE SEPARATE GROUND WIRES FOR ALL CIRCUITS. NO RACEWAY GROUNDS.
5. CONTRACTOR IS REQUIRED TO PROVIDE CONDUIT SLEEVE PENETRATIONS THRU RATED WALLS FOR USE BY HIMSELF AND OTHER TRADES. COORDINATE SIZE AND LOCATION OF CONDUITS REQUIRED BY OTHER TRADES. THE INTERIOR OF ALL CONDUIT SLEEVES PENETRATING RATED WALLS ARE TO BE SEALED AROUND WIRING AND TO THE INTERIOR OF THE CONDUIT AT EACH END WITH FIRE STOP MATERIAL. TO PRESERVE THE RATING INTEGRITY OF THE WALL. SEALING IS TO BE DONE ONLY AFTER ALL WIRING IS COMPLETE BOTH BY THE ELECTRICAL CONTRACTOR AND OWNER.
6. CONDUIT ROUTING IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ROUTING SHOWN ON THESE DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. THE ONLY EXCEPTION TO THIS IS THAT NO SURFACE MOUNTED CONDUIT WILL BE PROVIDED EXCEPT AS INDICATED ON THESE DRAWINGS UNLESS APPROVAL IS GIVEN BY OWNERS REP OR ENGINEER. CONDUIT SIZES INDICATED ON THESE DRAWINGS ARE MINIMUM SIZES FOR INDIVIDUAL HOMERUNS. CONTRACTOR IS FREE TO COMBINE DIFFERENT HOMERUNS IN SAME CONDUIT AND RESIZE ACCORDING TO NEC REQUIREMENTS. CONTRACTOR IS TO PROVIDE MULTIPLE RUNS OF CONDUIT AT HIS EXPENSE TO REPLACE LARGER INDIVIDUAL RUNS OF CONDUIT INDICATED ON THESE DRAWINGS WHERE FIELD CONDITIONS WILL NOT ALLOW THEM TO BE INSTALLED IN THE SIZES SHOWN. ELECTRICAL CONTRACTOR FREE TO USE LEAST EXPENSIVE WIRING METHOD AS ALLOWED BY CODE IN RUNNING DOWN HOTEL CORRIDORS AND ABOVE ELEVATOR LOBBIES FROM PANELS, AND FOR LOW VOLTAGE OR COMMUNICATIONS ROUTES OVER REST ROOM AREAS OR DOWN CORRIDORS AS SPACE ALLOWS. COORDINATE WITH OTHER TRADES FOR INSTALLATION SO THAT NO TRADES INSTALLED PIPING, DUCTWORK, OR RECESSED LIGHTING FIXTURES INTERFERES WITH THE ARCHITECTS REQUIRED MINIMUM CEILING HEIGHT. CONTRACTOR IS TO PUNCH THRU WALLS WITH CONDUIT RUNS AS REQUIRED BY FIELD CONDITIONS. LOCATE WALL PENETRATIONS ABOVE CEILING AREAS UNLESS OTHERWISE INDICATED. FIRE STOP AS REQUIRED.

- 7. CONTRACTOR TO RUN ALL POLYPHASE CIRCUITRY IN CONDUIT OR IN MC FEEDERS. ALL OTHER WIRING ALLOWED TO BE LEAST EXPENSIVE INSTALLATION AS ALLOWED BY CODE AND ALL THIS NOTE SHALL OVERRIDE WIRE AND CABLE SPECIFICATIONS. EXT IS ACCEPTABLE FOR LOW VOLTAGE WIRING.
8. CONTRACTOR IS FREE TO USE 1/2" WHERE ALLOWED BY NUMBER AND SIZE OF CONDUCTIONS, FOLLOW NEC. CONTRACTOR IS ALSO FREE TO ROUTE CONDUITS IN THE SLAB IN PVC AS HE DEEMS APPROPRIATE. SEE WIRE/CONDUIT NOTE 6 ABOVE AND BELOW REQUIREMENTS IN SPECIFICATIONS.

POWER/SYSTEMS:

- 1. ALL BOXES FOR POWER AND/OR COMMUNICATION DEVICES SHALL BE LOCATED 16" A.F.F. TO BOTTOM OF BOX UNLESS OTHERWISE NOTED. CONTRACTOR IS TO COORDINATE ALL DEVICE LOCATIONS WITH MILLWORK.
2. PROVIDE SERVICE ENTRANCE GROUNDING IN ACCORDANCE WITH NEC.
3. ELECTRICAL CONTRACTOR TO PROVIDE METER SOCKET IF NOT AVAILABLE THROUGH POWER CO. PROVIDE CT CAN IF REQUIRED BY POWER CO.
4. ALL COMMUNICATIONS SYSTEMS ARE TO BE PROVIDED BY OWNER. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONDUIT AND STANDARD BACKBOXES IDENTIFIED IN ELECTRICAL DOCUMENTS.
5. VERIFY LOCATION OF ALL TV ELECTRICAL AND CABLE CONNECTIONS WITH ARCHITECT PRIOR TO DOING ANY WORK. ELECTRICAL CONTRACTOR RESPONSIBLE FOR ANY COST ASSOCIATED WITH RELOCATING ELECTRICAL AND CABLE CONNECTIONS DUE TO FAILURE TO COORDINATE WITH ARCHITECT.
6. CONTRACTOR TO MARK CIRCUIT NUMBERS ON ALL J BOXES. MARK ON EXTERIOR IF NOT PAINTED, INTERIOR IF PAINTED.
7. PROVIDE TAMPERPROOF OUTLETS AS REQUIRED BY CODE.

LIGHTING:

- 1. CONTRACTOR IS TO VERIFY LIGHT FIXTURE COLOR/FINISHES WITH ARCHITECT PRIOR TO ORDER.
2. ALL LIGHT FIXTURES ARE TO BE CHECKED BEFORE ROUGHING IN TO INSURE THAT THEY CAN BE MOUNTED AS DIRECTED BY THE DRAWINGS AND THAT THERE IS ENOUGH SPACE TO ALLOW SUCH.
3. RECESSED LIGHT FIXTURES IN RATED CEILINGS MUST BE PROTECTED OR BE LISTED FOR USE IN A RATED ASSEMBLY. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL FIRE RATED ENCLOSURES OVER ALL RECESSED LIGHT FIXTURES IN FIRE RATED CEILINGS. ENCLOSURES CAN BE HAND CONSTRUCTED OUT OF SHEET ROCK OR A FIRE-RATED ASSEMBLY. SUCH AS IN THE FOLLOWING LINK CAN BE USED: https://www.tammat.us.com/fire-rated-light-enclosures/. CONTRACTOR SOLELY RESPONSIBLE FOR DETERMINING LOCATION OF FIRE RATED CEILINGS AND PROVIDING THE PROTECTION AS DESCRIBED. EACH FLOOR/CILING IS A 1-HOUR RATED ASSEMBLY WITH GYP ON THE UNDERSIDE OF THE STRUCTURE. ANY FINISHED CEILING LOWER THAN THAT IN CORRIDORS, GUEST BATHROOMS, MOST CEILINGS ON THE FIRST FLOOR, ETC) ARE NOT FIRE RATED. FIELD VERIFY ALL RATED CEILING LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO DOING ANY WORK.
4. RECESSED LIGHT FIXTURES IN INSULATED CEILINGS MUST BE I.C. RATED.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION OF HIS LIGHT FIXTURES WITH OTHER TRADES AND ARCHITECTURAL DRAWINGS PRIOR TO ANY INSTALLATION.
6. PROVIDE PHOTOCELL ON ROOF FOR SWITCHING OF EXTERIOR LIGHTING. SWITCH THRU TIMELOOK ALSO PROVIDED BY CONTRACTOR.

ELECTRICAL BOXES IN FIRE RATED WALLS

- 1. BOXES INSTALLED ON OPPOSITE SIDES OF THE SAME FIRE RATED WALL OR MEMBRANE SHALL COMPLY WITH THE FOLLOWING:
- STEEL BOXES THAT DO NOT EXCEED 18" SQUARE IN AREA SHALL BE SEPARATED AS FOLLOWS:
- BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR
- BY SOLID FIRE-BLOCKING MATERIAL INSTALLED IN ACCORDANCE WITH CODE OR BY OTHER LISTED MATERIALS AND METHODS.
2. FIRE MEMBRANE PENETRATIONS FOR LISTED OUTLET BOXES OF ANY MATERIAL ARE PERMITTED PROVIDED SUCH BOXES HAVE BEEN TESTED FOR USE. FIRE-RESISTANCE-RATED ASSEMBLIES AND ARE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS INCLUDED ON THE LISTING.
3. OUTLET OR SWITCH BOXES LOCATED ON OPPOSITE SIDES OF RATED STUD WALLS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24". PROTECTED BY U.L. RATED PUTTY PACK. OUTLETS WITH PUTTY PACK SHALL NOT BE INSTALLED AND REPAIR PACK.

ALTERNATE WIRING METHOD

- 1. CONTRACTOR IS ALLOWED TO PROVIDE AN ALTERNATE WIRING METHOD IN THE CORRIDORS UTILIZING FLEXIBLE CABLE LAIN IN CABLE TRAYS IN LIEU OF TRADITIONAL PIPE AND WIRE. CONTRACTOR RESPONSIBLE FOR ALL COORDINATION OF ROUTING WITH OTHER TRADES AND BUILDING STRUCTURE.
2. CONTACT ROBERT GREGA WITH JOHN TAYLOR & ASSOCIATES AT 615-285-6765 FOR DESIGN AND ASSISTANCE WITH CABLE/OF PRODUCTS.

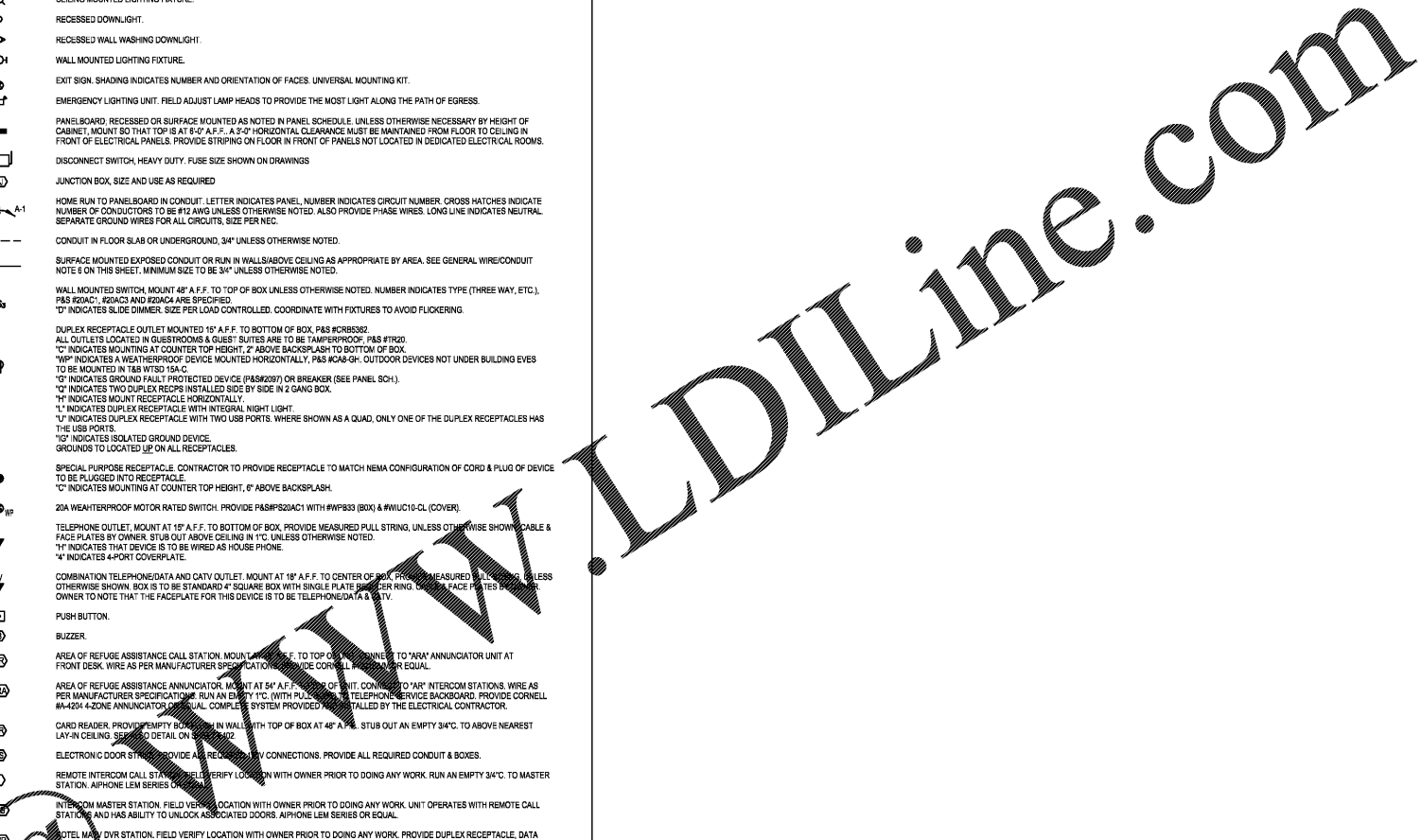
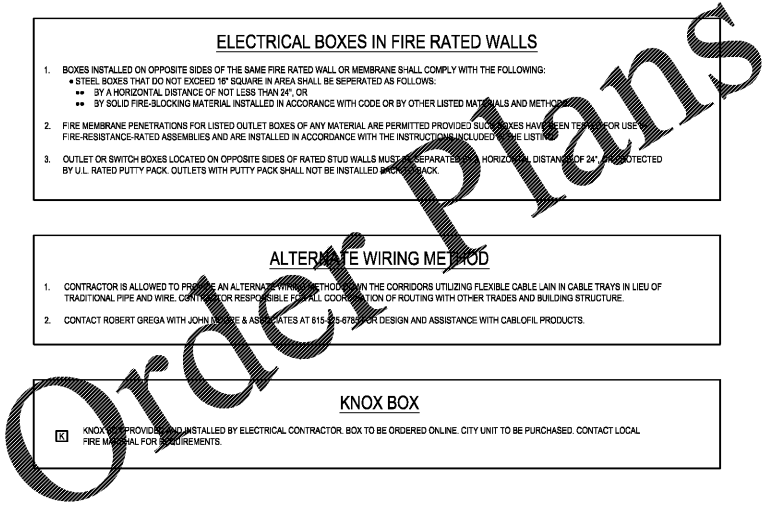
KNOX BOX

- 1. KNOX BOXES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. BOX TO BE ORDERED ONLINE. CITY UNIT TO BE PURCHASED. CONTACT LOCAL FIRE DEPARTMENT FOR REQUIREMENTS.

ELECTRICAL SYMBOLS LEGEND

Diagram showing various electrical symbols and their corresponding descriptions. Symbols include rectangles for recessed and surface mounted lighting fixtures, circles for pendant and ceiling fixtures, and various shapes for switches, outlets, and communication devices. Descriptions range from '2x4 RECESSED MOUNTED LIGHTING FIXTURE' to 'HOTEL MAINT DIVISION STATION'.

SCALE: NONE. VERIFY ALL DIMENSIONS. COVER PLATES WITH THE ARCHITECT PRIOR TO ORDER.



COURTYARD by MARRIOTT NEW HOTEL SMYRNA, TENNESSEE WWW.DAVIDRCARTER-NET DAVID R. CARTER AND ASSOCIATES

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