



GENERAL NOTES:

- ALL CONDUCTORS IN ELECTRICAL SYSTEM SHALL BE NO. 12 AWG COPPER MINIMUM UNLESS SPECIFICALLY LABELED OTHERWISE OR AS REQUIRED BY SPECIFICATIONS OR CODE.
- CONTRACTOR SHALL UTILIZE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES AND ALL OTHER LIGHTING/ELECTRICAL/SPECIAL SYSTEMS CEILING DEVICES.
- CONTRACTOR SHALL UTILIZE MECHANICAL/PLUMBING PLANS FOR EXACT LOCATIONS OF ALL MECHANICAL/PLUMBING EQUIPMENT.
- COORDINATE CLOCK LOCATIONS WITH ARCHITECT. REFER TO SPECIFICATIONS AND SPECIAL SYSTEMS DRAWINGS FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE LARGE SCALE COORDINATION DRAWINGS WITH WORK OF ALL TRADES. THESE DRAWINGS SHALL BE SUBMITTED AND REVIEWED BY THE DESIGN TEAM PRIOR TO FABRICATION OF ANY DUCTWORK, PIPING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
- MOUNTING HEIGHTS OF OUTLETS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING LIST OF DIMENSIONS ABOVE FINISHED FLOORS, UNLESS INDICATED OTHERWISE ON DRAWINGS.

ELECTRICAL DEVICE TYPE	MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF OUTLET (DEVICE) BOX
RECEPTACLE OUTLETS, MICROPHONE OUTLETS (JACKS), EQUIPMENT OUTLETS (JACKS), PORTABLE TELEPHONE OUTLETS, COMPUTER OUTLETS, ETC.	
*GENERAL THROUGHOUT	20"
*MECHANICAL EQUIPMENT ROOMS	48"
*ABOVE COUNTER TOPS 30"H	36"
*ABOVE COUNTER TOPS 36"H	44"
*ABOVE COUNTER TOPS 48"H	54"
*ABOVE BACKSPASH TOP	2" minimum
*ABOVE OR ADJACENT TO LAVATORIES	44"
*BEHIND DOMESTIC REFRIGERATORS	52"
*BEHIND DOMESTIC WASHERS AND DRYERS	44"
*SERVING DOMESTIC DISHWASHERS (NOT UNDERCOUNTER)	44"
TOGGLE SWITCHES/OCCUPANCY WALL-SWITCHES/TCC	44"
ELECTRIC PANELS, TERMINAL CABINETS, ETC.	48"
CLOCKS (COORDINATE WITH ARCHITECT)	NEAR CEILING OR 10' AFF MAXIMUM
PULL STATIONS (FIRE ALARM)	44"
VOLUME CONTROLS, CALL-IN SWITCHES	44"
SPEAKER/STROBES (FIRE ALARM)	80"

- AND/OR UNDER-SLAB CONDUIT RUNS MAY BE REQUIRED. CONTRACTOR SHALL COORDINATE ALL RUNS AS WELL CUTTING AND PATCHING METHODOLOGIES WITH ARCHITECT.
- CONTRACTOR TO COORDINATE ALL CONDUITS AND ELECTRICAL DEVICES/BOXES WITH ARCHITECT AS RELATED TO WALL CONSTRUCTION TYPE PRIOR TO INSTALLATION.
- COORDINATE ALL RECEPTACLE OUTLETS LOCATED IN MECHANICAL ROOMS WITH ACTUAL MECHANICAL EQUIPMENT LAYOUT AND PIPING PRIOR TO ROUGH-IN. RECEPTACLES SHALL NOT BE LOCATED IN AN INACCESSIBLE AREA.
- PRIOR TO WORK, CONTRACTOR SHALL VERIFY LOADS AND SPACE IN MAIN ELECTRICAL SWITCHGEAR. CONTRACTOR SHALL VERIFY ROOM FOR ADDITIONAL ELECTRICAL EQUIPMENT.

GENERAL NOTES (LIGHTING):

- ALL EMERGENCY BATTERY/BALLASTS AND EXIT SIGNS SHALL BE ON UNSWITCHED "HOT" LEG SERVING THE AREA, CONNECTED AHEAD OF SWITCH SERVING AREA/ROOM.
- ALL EXIT SIGNS SHALL BE WALL MOUNTED, WHERE POSSIBLE (UNLESS INDICATED OTHERWISE).
- COORDINATE LIGHT FIXTURE LOCATIONS IN MECHANICAL ROOMS WITH ACTUAL EQUIPMENT LAYOUT AND ASSOCIATED DUCTWORK.
- CONTRACTOR SHALL COORDINATE NUMBER AND LOCATION OF OCCUPANCY/VACANCY SENSORS AS PER MANUFACTURER RECOMMENDATIONS TO ASSURE COVERAGE IN ALL OCCUPIABLE AREAS OF ROOMS COVERED.

GENERAL NOTES (IT INFRASTRUCTURE):

- SEE IT SPECIFICATIONS FOR DETAILS OF THE IT INFRASTRUCTURE.
- WORK TO INCLUDE (BUT NOT BE LIMITED TO) ALL CABLING, TERMINATIONS, TESTING & CERTIFICATION, CABLE TRAY SYSTEM, TR ROOMS, ER ROOM, COPPER AND FIBER CABLES.
- ALL COPPER DATA LINES SHALL BE TERMINATED ON ONE END IN A RJ-45 TYPE RECEPTACLE AS SHOWN ON DRAWINGS AND THE OTHER END SHALL BE IN A RACK-MOUNTED PATCH PANEL LOCATED IN THE NEAREST ICC. LENGTHS & MATERIALS SHALL ADHERE TO SPECIFICATIONS. DATA CABLING SHALL BE CAT6A TYPE. IN NO CASE SHALL ANY DATA CABLE LENGTH FROM PATCH PANEL TO RJ45 RECEPTACLE EXCEED 275 FEET.
- ALL FIBER CABLING SHALL RUN FROM THE TR'S TO THE ER AND SHALL BE PROPERLY TERMINATED IN PATCH PANELS ON BOTH ENDS. LENGTHS AND MATERIALS SHALL ADHERE TO SPECIFICATIONS.
- ALL CABLE TRAYS TO BE 24" WIDE OR AS SPECIFIED OR INDICATED ON DRAWINGS. ALL CABLE TRAYS SHALL TERMINATE IN TR'S OR ER AS SHOWN. CABLE TRAY SYSTEM TO BE CONTINUOUS FROM FLOOR TO FLOOR.
- ALL CABLES TO BE IN CONDUIT, SURFACE RACEWAY OR CABLE TRAY SYSTEM. PROVIDE CONDUIT SLEEVES AS REQUIRED WHERE WALLS CONTINUE TO DECK.
- RUN CAT6A CABLES IN MINIMUM 1" CONDUIT TO THE NEAREST CABLE TRAY IN THE SYSTEM:
FOR 8 CABLES, USE 2" CONDUIT.
FOR 4 CABLES, USE 1 1/4" CONDUIT.
FOR 2 CABLES, USE 1" CONDUIT.
- THE MINIMUM DATA RECEPTACLE INCLUDING WIRELESS ACCESS-POINTS (WAP'S) AND CAMERA LOCATIONS IS A DUAL RJ-45 WITH (2) CAT6A CABLES RUNNING TO THE NEAREST ICC.
- ALL WIRELESS ACCESS POINT TERMINATIONS TO BE INSTALLED ABOVE CEILING WHERE POSSIBLE. COORDINATE WITH OWNER/ARCHITECT.
- ALL WIRELESS ACCESS POINTS (WAP'S) TO BE POWER OVER ETHERNET (POE). CONTRACTOR TO PROVIDE NECESSARY SWITCHES AND HARDWARE TO ENABLE POE.
- ALL CABLE TRAYS TO BE LOCATED ABOVE ACCESSIBLE CEILING. COORDINATE WITH ARCHITECT AND REFLECTED CEILING PLANS.

GENERAL NOTES (FIRE ALARM):

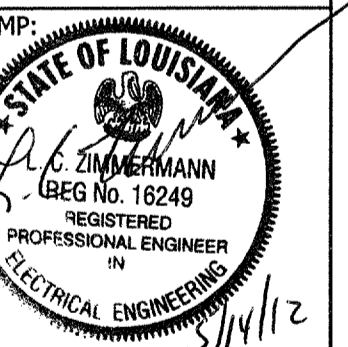
- LOCATION OF CEILING MOUNTED SMOKE/HEAT DETECTORS SHALL BE FIELD COORDINATED PRIOR TO ROUGH-IN. THE DETECTOR SHALL BE A MINIMUM OF 2' AWAY FROM LIGHT FIXTURES AND A MINIMUM OF 3' AWAY FROM AIR DISTRIBUTION DEVICES.
- WHERE STROBES OR HORN/STROBES ARE LOCATED IN THE CEILING, LOCATE AS CLOSE TO THE CENTER OF THE ROOM AS POSSIBLE. COORDINATE FINAL LOCATION WITH ARCHITECT.
- WHERE DUCT DETECTORS ARE REQUIRED IN SUPPLY DUCTS, SHOULD DUCT BE DIVIDED PRIOR TO REACHING SIX STRAIGHT DUCT WIDTH DIMENSIONS, ADDITIONAL DUCT DETECTOR SHALL BE INSTALLED.
- PROVIDE 24V POWER FROM FIRE ALARM SYSTEM TO ALL SMOKE DAMPERS AND FIRE/SMOKE DAMPERS. CONNECT TO FIRE ALARM SYSTEM AS REQUIRED. VERIFY ALL QUANTITIES AND LOCATIONS WITH HVAC DRAWINGS.
- CANDELA RATINGS INDICATED ON DRAWINGS ARE THE REQUIRED MINIMUM CANDELA.
- ALL WIRING ASSOCIATED WITH FIRE ALARM SYSTEM REGARDLESS OF VOLTAGE SHALL BE RUN IN CONDUIT.

GENERAL NOTES (POWER):

- ALL RECEPTACLES IN THE FOLLOWING AREAS SHALL BE GFI-TYPE:
A. RESTROOMS
B. MECHANICAL AND MACHINE ROOMS
C. ELECTRICAL ROOMS
D. KITCHEN AREAS
E. EXTERIOR
F. ROOF TOP
G. WITHIN 6 FEET OF ANY SINK
H. FLOOR MOUNTED RECEPTACLES
I. JANITOR CLOSETS
- ALL EXTERIOR RECEPTACLES SHALL BE LISTED WEATHER-RESISTANT TYPE, BE GFI PROTECTED, AND HAVE AN ENCLOSURE/COVERPLATE THAT IS WEATHERPROOF (WITH THE ATTACHMENT PLUG CAP INSERTED OR REMOVED). REFER TO SPECIFICATIONS.
- ALL MULTI-CIRCUITS RUNS SHALL HAVE SEPARATE NEUTRALS.
- ALL ELECTRIC DRINKING FOUNTAINS SHALL BE PROTECTED WITH GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION. PROVIDE GFCI TYPE CIRCUIT BREAKERS FEEDING DRINKING FOUNTAINS.
- PROVIDE OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY. REFER TO SPECIFICATIONS.
- VERIFY EXACT LOCATION AND HEIGHT OF JUNCTION BOXES FOR POWER TO HAND DRYERS PRIOR TO ROUGH-IN. SEE ARCHITECTURAL DRAWINGS. CONTRACTOR TO PROVIDE COORDINATION DRAWINGS FOR APPROVAL BY ARCHITECT.
- COORDINATE AND VERIFY ALL FLOOR RECEPTACLE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN. CONTRACTOR TO PROVIDE COORDINATION DRAWINGS FOR APPROVAL. THESE DRAWINGS SHALL BE SUBMITTED AND REVIEWED BY THE DESIGN TEAM.
- REFER TO ARCHITECTURAL ROOF PLAN, FOR ALL ROOF FLASHING DETAILS CONCERNING ELECTRICAL PENETRATIONS.

ALL DESIGN, ENGINEERING, MANAGEMENT, CONTRACTING AND SPECIFICATIONS ARE OWNED BY AND ARE THE PROPERTY OF MOSES ENGINEERS CONSULTING ENGINEERS AND SHALL REMAIN THE PROPERTY OF MOSES ENGINEERS CONSULTING ENGINEERS. NO PART OF THESE DOCUMENTS ARE TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MOSES ENGINEERS CONSULTING ENGINEERS.

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REVISION(S):

CONTRACTOR MUST VERIFY AND CHECK ALL JOB DIMENSIONS, DETAILS, AND SPECIFICATIONS ON SITE AND REPORT ANY ERRORS, OMISSIONS, OR DISCREPANCY TO THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH WORK.

DRAWN BY:
BPO
CHECKED BY: BPO DATE: 05/11/12

JOB NO: 1007B

SHEET NO: E-02