- \$ SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
- 3 THREE-WAY LIGHTING SWITCH. DF - FLOURESCENT SLIDE DIMMER SWITCH WITH PRESET (LUTRON NTF-103P-WH).
- M MANUAL MOTOR STARTER. MOUNT 80" AFF. PROVIDE PHENOLIC LABEL. DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTUAL DRAWINGS PRIOR TO
- ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS: G - GROUND FAULT CIRCUIT INTERRUPTER TYPE. WP - GFI DEVICE WITH DIECAST WEATHERPROOF BACKBOX & CLEAR WEATHERPROOF (IN-USE) COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 30" AFG. EWC - CONCEAL RECEPTACLE BEHIND EWC (COORDINATE WITH DIVISION 15). TV - COORDINATE RECEPTACLE LOCATION WITH A/V OUTLET.
- 84" MOUNTING HEIGHT OF DEVICE AFF.
- DUPLEX RECEPTACLE NEMA 5-20R. MOUNTED FACE DOWN IN CEILING. DUPLEX RECEPTACLE NEMA 5-20R. MOUNTED IN MILLWORK.
- QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED IN MILLWORK. UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.
- SPECIAL NEMA TYPE RECEPTACLE. VERIFY WITH EQUIPMENT BEING SUPPLIED. MOUNTED 10" AFF, UNLESS NOTED OTHERWISE.
- QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 18" AFF. UNLESS NOTED OTHERWISE.
- ⊕ QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.

LIGHTING CONTROL EQUIPMENT:

HPC PHOTOELECTRIC CELL, SEE LIGHTING CONTROL DIAGRAM AND CONNECT AS REQUIRED. LC LIGHTING CONTACTOR. SEE DETAIL.

OCCUPANCY SENSORS:

- D) WALL MOUNTED PIR TYPE SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE.
- CEILING MOUNTED LOW VOLTAGE 360° DUAL TECHNOLOGY (PASSIVE INFRARED & DT CEILING MOUNTED LOW VOLTAGE 300 MICROPHONIC) OCCUPANCY SENSOR.
- PP POWER PACK. PROVIDE WITH NEMA 1 ENCLOSURE.

DISTRIBUTION & POWER EQUIPMENT:

- PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
- DISTRIBUTION PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
- ENCLOSED CIRCUIT BREAKER.
- NON-FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.
- AUTOMATIC TRANSFER SWITCH.

GROUNDING:

INSTALLATION OF CABLING IS COMPLETE.

CONDUIT SHALL BE EXPOSED.

AND COMMUNICATIONS OUTLET DEVICES AND FACEPLATES.

TELECOMMUNICATIONS DRAWINGS ANID/OR REQUIRED TO PROVIDE A COMPLETE SYSTEM.

DEDICATED WORKING SPACE IN FRONT OF ELECTRICAL PANELS.

MISCELLANEOUS EQUIPMENT:

- GA EMERGENCY GENERATOR REMOTE ANNUNCIATOR. FLUSH MOUNTED AT 5'0" AFF.
- JUNCTION BOX. ELECTRICAL CONNECTION TO EQUIPMENT. VERIFY LOCATION WITH EQUIPMENT
- (LJ) UNDERGROUND LIGHTING JUNCTION BOX (8"x8"x4" DEEP PVC). CONNECT TO POLE MOUNTED LIGHT FIXTURE PROVIDED BY OTHERS.

FIRE ALARM SYSTEM:

- F FIRE ALARM SYSTEM ADDRESSABLE SINGLE ACTION MANUAL PULL STATION. MOUNT 48" TO CENTER OF DEVICE. PROVIDE WITH CLEAR AUDIBLE PROTECTIVE SHIELD.
- EKO FIRE ALARM SYSTEM AUDIO-VISUAL ALARM (CANDELA AS INDICATED ON SUBSCRIPT). MOUNT 80" AFF TO BOTTOM OF DEVICE OR 6" FROM THE BOTTOM OF CEILING. WHICHEVER IS LOWER. ALL STROBES SHALL BE SYNCHRONIZED. SUBSCRIPT
- FIRE ALARM SYSTEM STROBE APPLIANCE (CANDELA AS INDICATED ON SUBSCRIPT). 75cd MOUNT 80" AFF TO BOTTOM OF DEVICE OR 6" FROM THE BOTTOM OF CEILING, WHICHEVER IS LOWER. ALL STROBES SHALL BE SYNCHRONIZED.
- FIRE ALARM SYSTEM CEILING MOUNTED AUDIO-VISUAL ALARM (CANDELA AS INDICATED 75cd ON SUBSCRIPT). ALL STROBES SHALL BE SYNCHRONIZED.
- (S) FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. CEILING
- (D) FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC DUCT MOUNTED SAMPLE TUBE TYPE SMOKE DETECTOR. PROVIDED BY DIV. 16, INSTALLED BY DIV. 15 AND CONNECTED BY DIV. 16.
- R FIRE ALARM SYSTEM ADDRESSABLE AIR HANDLING UNIT SHUT-DOWN RELAY (UNLESS NOTED OTHERWISE). PROVIDE WITH POWER RELAY WHERE REQUIRED.
- FACP MULTIPLEXED ADDRESSABLE FIRE ALARM CONTROL PANEL. BATTERY SUPPLIES TO BE MOUNTED WITH FACP, REMOTE BOOSTER TYPE BATTERY POWER SUPPLIES WILL NOT BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS, FIELD VERIFY EXACT MOUNTING LOCATION.
- FA FIRE ALARM SYSTEM REMOTE ANNUNCIATOR. FLUSH MOUNTED AT 5'0" AFF.

LIGHTING FIXTURES:

DIVISION 17 CONTRACTOR RESPONSIBILITIES & COORDINATION NOTE

INNERDUCT IN BACKBONE CONDUITS AS REQUIRED IN THE SPECIFICATIONS AND DRAWINGS. WAP ENCLOSURES SHALL BE OFCI, WAP ELECTRONICS SHALL BE OFCI.

(SCSC) SHALL BE RESPONSIBLE FOR GROUNDING ALL RACKS, PROTECTOR BLOCKS, CABLE LADDER TRAY IN COMMUNICATION ROOMS TO THE LOCAL TGB.

THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR INSTALLING THE GROUNDING BUSBARS AS SHOWN ON THE DRAWINGS AND CONNECTING THEM TO THE BUILDINGS MAIN ELECTRICAL SERVICE GROUND. THE EC SHALL ALSO BE RESPONSIBLE FOR GROUNDING ALL BACKBONE CONDUIT AND CABLE TRAY. THE STRUCTURED CABLING SYSTEM CONTRACTOR

THE EC SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE SCSC SHALL BE RESPONSIBLE FOR FIRESTOPPING INSIDE THE SLEEVES AFTER

THE EC SHALL BE RESPONSIBLE FOR ALL BACKBONE CONDUIT, CABLE TRAYS AND CABLING PATHWAYS. THIS IS TO INCLUDE ALL INTERIOR AND EXTERIOR CONDUIT, ALL WALL PENETRATIONS AND CONDUIT SLEEVES WHETHER SHOWN ON THE DRAWINGS OR AS REQUIRED TO PENETRATE FULL HEIGHT PARTITIONS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONDUIT PATHWAYS SHALL INCLUDE ALL PULLBOXES, PULLTAPE, PULLSTRINGS, CONDUIT MARKINGS, ETC. ALL CONDUIT SHALL BE INSTALLED ACCORDING; TO THE CONDUIT NOTES AS SHOWN ON THE DRAWINGS. PROVIDE END BUSHINGS ON ALL CONDUIT. THE SCSC SHALL BE RESPONSIBLE FOR THE FOLLOWING ITEMS IN TELECOMMUNICATIONS ROOMS ONLY: RUNWAYS, D-RINGS, CABLE TRAY, CABLE TIES AND/OR ANY OTHER REQUIREMENTS FOR ROUTING AND SECURING CABLE IN THE TELECOMMUNICATIONS ROOMS. THE SCSC SHALL PROVIDE ANY

THE EC SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH THE COMMUNICATIONS OUTLETS. SCSC SHALL PROVIDE ALL CABLING

THE SCSC SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL BACKBOARDS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLETE SYSTEM. THE EC SHALL BE RESPONSIBLE FOR ROUGH-IN OF EILECTRICAL CONDUIT PRIOR TO INSTALLATION OF BACKBOARDS. ALL POWER CONDUIT SHALL BE CONCEALED BEHIND ALL BACKBOARDS. BACKBONE

THIS LIST IS NOT COMPREHENSIVE. THE STRUCTURED CABLING SYSTEM CONTRACTOR (SCSC) SHALL BE RESPONSIBLE FOR ANY ADDITIONAL REQUIREMENTS SHOWN ON THE

FOR THE DIVISION 17 (TELECOMMUNICATIONS) DRAWINGS AND SPECIFICATIONS INCLUDED IN THIS PROJECT THE FOLLOWING APPLY:

THE SCSC SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING. TERMINATING AND LABELING ALL COMMUNICATIONS CABLES.

FLUORESCENT LIGHTING FIXTURES.

RECESSED DOWN LIGHT.

SHADING DENOTES FIXTURE HAS AN EMERGENCY BATTERY BACK-UP.

EXIT SIGN- SHADED QUADRANT HAS A LETTERED FACE AND ARROW INDICATES DIRECTION.

OTHER:

- CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL
- / CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.
- HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12,#12G,1/2"C. TICK MARKS INDICATE # OF CONDUCTORS (EGC NOT INCLUDED). MINIMUM SIZE ON HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.
- MECHANICAL EQUIPMENT IDENTIFICATION TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.
- FD3H LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS &
- (1) SHEET NOTE TAG.
- PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION
- LEADERS.

ABBREVIATIONS ABOVE COUNTER AMP FRAME AFF ABOVE FINISHED FLOOR AIR HANDLING UNIT ARCHITECT OR ARCHITECTURAL AMP TRIP ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE CIRCUIT BREAKER BUILDING CONDUIT CIRCUIT BREAKER CURRENT LIMITING C/L CLG CENTERLINE CEILING CKT CIRCUIT CURRENT TRANSFORMER CU COPPER DIRECT DIGITAL CONTROL EGC EQUIPMENT GROUNDING CONDUCTOR ELEC ELECTRICAL EXHAUST FAN ELECTRIC WATER COOLER ELECTRICAL METALLIC TUBING EQUIPMENT FLEXIBLE METAL CONDUIT FIRE ALARM SYSTEM CONTROL PANEL FU F/A FIRE ALARM FLA FULL LOAD AMPS FLR FLOOR GROUND FAULT INTERRUPTER GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT) GND GEC GROUNDING ELECTRODE CONDUCTOR HANDHOLE HEAT PUMP OR HORSEPOWER HEATING, VENTILATION & AIR-CONDITIONING ISOLATED GROUND JUNCTION BOX KILO-AMPERE INTERRUPTING CAPABILITY LCP LIGHTING CONTROL PANEL LTG LIGHTING LIQUID TIGHT FLEXIBLE METAL CONDUIT MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER MCM THOUSAND CIRCULAR MILS MIN MINIMUM MISC MISCELLANEOUS MLO MAIN LUGS ONLY MTG MOUNTING N1 NFMA 1 N₃R NEMA 3R N/A NOT APPLICABLE NATIONAL ELECTRICAL CODE NESC NATIONAL ELECTRICAL SAFETY CODE NEU NEUTRAL OCPD OVERCURRENT PROTECTION DEVICE PBD PANELBOARD POWER FACTOR **PWR** POWER RECEPTACLE REQUIRED ROOM RGS RIGID GALVANIZED STEEL CONDUIT RIGID NON-METALLIC CONDUIT SCA SHORT CIRCUIT AMPS **TVSS** TRANSIENT VOLTAGE SURGE SUPPRESSION TYPICAL UNDERGROUND UNDERWRITERS' LABORATORIES

UNLESS NOTED OTHERWISE

VOLT-AMPERES

WEATHERPROOF

WITHSTAND RATING TRANSFORMER EXPLOSION PROOF

WATTS

DEGREES

WSR

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Cooperative,

Electric

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ELECTRICAL LEGEND

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Bid Documents

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