

ELECTRICAL LEGEND

GENERAL ELECTRICAL DEVICES:

- ⚡ SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
 - 3 - THREE-WAY LIGHTING SWITCH.
 - 4 - FOUR-WAY LIGHTING SWITCH.
 - D - LOW VOLTAGE DIMMER. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
 - D1 - DIMMING WALL SWITCH WITH OCCUPANCY SENSOR. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
 - D2 - TWO CHANNEL LOW VOLTAGE DIMMER. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
 - M - TWO POLE MOTOR RATED SWITCH MOUNTED AT THE EQUIPMENT. PROVIDE PHENOLIC LABEL.
- ⚡ DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL 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).
 - D - SHALL BE ON DEDICATED CIRCUIT.
 - TV - COORDINATE RECEPTACLE LOCATION WITH AN OUTLET.
 - 84" - MOUNTING HEIGHT OF DEVICE AFF.
- ⚡ DUPLEX RECEPTACLE MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. ORIENT WITH LONG AXIS HORIZONTAL ABOVE COUNTERS.
- ⚡ 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.
- ⚡ DUPLEX RECEPTACLE NEMA 5-20R. MOUNTED IN SURFACE RACEWAY.
- ⚡ QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED IN SURFACE RACEWAY.
- ⚡ QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) 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 IN SURFACE RACEWAY.
- ⚡ 225 (OR 100 AS NOTED) AMP SURFACE MOUNTED BUSS WAY SYSTEM. PROVIDE WITH BUSS CONNECTIONS, BREAKERS AND OUTLETS AS INDICATED.

BUSS SYSTEM WITH THREE PHASE 40 AMP BREAKERS PROTECTING A 50 AMP SPECIAL NEMA RECEPTACLE SERVING THE WELDERS. EACH WELDING BOOTH IS TO BE SERVED BY A WELDING RECEPTACLE AND A DUPLEX RECEPTACLE LOCATED TO BE ACCESSIBLE FROM THE WELDING BOOTH WORK SPACE.

TO SERVE THE DUPLEX RECEPTACLES AN ADDITIONAL BUSS CONNECTION WITH A 20 AMP SINGLE POLE BREAKER WILL BE ROUTED VIA CONDUIT TO SERVE THE WELDING BOOTH MISCELLANEOUS 120 VOLT NEEDS. NO MORE THAN 5 BOOTHS CAN BE SERVED BY ONE 20 AMP CIRCUIT.

THE BUSS CONSTRUCTION MAY BE COPPER OR ALUMINUM AND RATED TO SUPPORT THE SPECIFIC HARMONIC LOAD OF THE WELDING EQUIPMENT DUTY CYCLE. THE NEUTRAL BUSS MUST BE RATED AT 150 % MINIMUM.

ELECTRICAL BUS DUCTS - OWNER PROVIDED, INSTALLED BY GENERAL CONTRACTOR - AN ALLOWANCE SHALL BE PROVIDED FOR THE OWNER FURNISHED BUS DUCTS. ACCEPTABLE VENDORS; SIEMENS, EATON, SQUARE D.

MISCELLANEOUS EQUIPMENT:

- ⚡ EXHAUST FAN.
- ⚡ JUNCTION BOX.
- ⚡ ELECTRICAL CONNECTION TO EQUIPMENT. VERIFY LOCATION WITH EQUIPMENT PROVIDER.

OCCUPANCY SENSORS:

- ⚡ WALL MOUNTED LINE VOLTAGE DUAL TECHNOLOGY SWITCH WITH ONE RELAYS. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
- ⚡ WALL MOUNTED LINE VOLTAGE DUAL TECHNOLOGY SWITCH WITH DUAL RELAYS. EACH RELAY IS TO HAVE INDEPENDENT DELAY CONTROL. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.

⚡ POWER PACK. PROVIDE WITH NEMA 1 ENCLOSURE.

⚡ RECEPTACLE POWER PACK - NPP20 PL OR EQUAL.

⚡ CEILING MOUNTED LOW VOLTAGE 360° DAYLIGHT HARVESTING SENSOR.

⚡ LIGHTING CONTROL. SEE DETAIL.

DISTRIBUTION & POWER EQUIPMENT:

- ⚡ PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
- ⚡ FUSED GENERAL DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.
- ⚡ MAGNETIC MOTOR STARTER. SIZE AS REQUIRED. MOUNT IN SERVING ELECTRICAL ROOM UNLESS SPECIFICALLY NOTED OTHERWISE.

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 SHOWN). MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 50 FEET SHALL BE #10 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 100 FEET SHALL BE #8 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 160 FEET SHALL BE #6 AWG. MINIMUM SIZE ON 277V HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG. INCREASE CONDUIT SIZE AS REQUIRED PER NEC. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.
- ⚡ LOW VOLTAGE CABLE AS SPECIFIED BY THE MANUFACTURER.
- ⚡ EMERGENCY (NEC ART. 700) CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
- ⚡ OPTIONAL (NEC ART. 702) CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
- ⚡ MECHANICAL EQUIPMENT IDENTIFICATION TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.
- ⚡ LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS & DETAILS.
- ⚡ SHEET NOTE TAG.
- ⚡ PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION TAG.
- ⚡ ROOM NUMBER TAG.
- ⚡ LEADERS.

TELECOMMUNICATIONS SYSTEM:

- ▶ COMMUNICATIONS OUTLET. PROVIDE A DEEP 4" SQUARE BOX WITH A 3/4" CONDUIT WITH BUSHINGS ON BOTH ENDS TO THE ACCESSIBLE AREA ABOVE THE CEILING. PROVIDE TWO CATEGORY 5e CABLES FROM THE DEVICE LOCATION TO THE COMMUNICATIONS BACKBOARD. MOUNT AT 18" A.F.F. UNLESS SUBSCRIPTED OTHERWISE.

FIRE ALARM SYSTEM: (INSTALLED IN PHASE I.)

- ⚡ FIRE ALARM SYSTEM ADDRESSABLE SINGLE ACTION MANUAL PULL STATION. MOUNT 48" TO CENTER OF DEVICE. PROVIDE WITH CLEAR AUDIBLE PROTECTIVE SHIELD.

- ⚡ FIRE ALARM SYSTEM AUDIO-VISUAL ALARM (CANDELA AS INDICATED ON SUBSCRIPT). MOUNT 80" AFF TO BOTTOM OF LENS OR 6" FROM THE CEILING, WHICHEVER IS LOWER. ALL STROBES SHALL BE SYNCHRONIZED. SUBSCRIPT "WG" INDICATES PROVIDE A WIRE GUARD OVER DEVICE.

- ⚡ FIRE ALARM SYSTEM VISUAL ONLY APPLIANCE (CANDELA AS INDICATED ON SUBSCRIPT). MOUNT 80" AFF TO BOTTOM OF LENS OR 6" FROM THE CEILING, WHICHEVER IS LOWER. ALL STROBES SHALL BE SYNCHRONIZED. SUBSCRIPT "WP" INDICATES WEATHERPROOF DEVICE.

- ⚡ FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT.

- ⚡ MULTIPLEXED ADDRESSABLE FIRE ALARM CONTROL PANEL BATTERY SUPPLY TO BE MOUNTED WITH FACP. REMOTE BOOSTER TYPE BATTERY SUPPLY WILL NOT BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS. VERIFY EXACT MOUNTING LOCATION.

- ⚡ FIRE ALARM SYSTEM REMOTE ANNUNCIATOR. FLUSH MOUNTED AT 5" AFF.

- ⚡ FIRE ALARM SYSTEM ADDRESSABLE HEAT DETECTOR. CEILING MOUNT. SUBSCRIPT "90" INDICATES TO PROVIDE 190° DEVICE WITH MONITOR MODULE.

ABBREVIATIONS

A	AMPS	MCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER	MH	MANHOLE
AF	AMP FRAME	MIN	MINIMUM
AFG	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
AHU	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AL	AIR HANDLING UNIT	MNT	MOUNTING HEIGHT
ARCH	ALUMINUM	MTG	MOUNTING
AT	ARCHITECT OR ARCHITECTURAL	MTS	MANUAL TRANSFER SWITCH
ATS	AMP TRIP	MV	MEDIUM VOLTAGE
ATU	AUTOMATIC TRANSFER SWITCH	N1	NEMA 1
AWG	AIR TERMINAL UNIT	N3R	NEMA 3R
BAS	AMERICAN WIRE GAUGE	N/A	NOT APPLICABLE
BJ	BUILDING AUTOMATION SYSTEM	NA	NOT APPLICABLE
BKR	BONDING JUMPER	NEC	NATIONAL ELECTRICAL CODE
BLDG	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL SAFETY CODE
BOD	BUILDING	NEU	NEUTRAL
C	BASIS OF DESIGN	OCPD	OVERCURRENT PROTECTION DEVICE
C/B	CONDUIT	OFOI	OWNER FURNISHED OWNER INSTALLED
CL	CIRCUIT BREAKER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CL	CURRENT LIMITING	OH	OVERHEAD
CL	CENTERLINE	OHE	OVERHEAD ELECTRICAL
CLG	CEILING	OHP	OVERHEAD PRIMARY
CT	CIRCUIT	OHS	OVERHEAD SECONDARY
CT	CURRENT TRANSFORMER	PB	PANELBOARD
CU	COPPER	PF	POWER FACTOR
DDC	DIRECT DIGITAL CONTROL	PNL	PANELBOARD
DEMO	DEMOLISH	PT	POTENTIAL TRANSFORMER
EC	ELECTRICAL CONTRACTOR	RWR	RECEPTACLE
EGC	EQUIPMENT GROUNDING CONDUCTOR	RFD	REQUIRED
ELEC	ELECTRICAL	RM	ROOM
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR	RGS	RIGID GALVANIZED STEEL CONDUIT
EF	EXHAUST FAN	RNC	RIGID NON-METALLIC CONDUIT
EX	EXISTING TO REMAIN	RVSS	REDUCED VOLTAGE SOLID STATE
EXT	EXTERIOR	SA	SURGE ARRESTER
EWC	ELECTRIC WATER COOLER	SCA	SHORT CIRCUIT AMPS
EMT	ELECTRICAL METALLIC TUBING	SF	SUPPLY FAN
EQUIP	EQUIPMENT	SPEC	SPECIFICATION
FC	FLEXIBLE METAL CONDUIT	SWBD	SWITCHBOARD
FACP	FIRE ALARM SYSTEM CONTROL PANEL	SWGR	SWITCHGEAR
F	FUSE	TBB	TELECOMMUNICATIONS BONDING BACKBONE
F/A	FIRE ALARM	TR	TELECOMMUNICATIONS ROOM
FLA	FULL LOAD AMPS	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FLR	FLOOR	TMGB	TELECOMMUNICATIONS MAIN GROUNDING
FV	FULL VOLTAGE NON-REVERSING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GF	GROUND FAULT INTERRUPTER	TYP	TYPICAL
G	GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT)	UG	UNDERFLOOR RACEWAY
GC	GENERAL CONTRACTOR	UG	UNDERGROUND
GND	GROUND	UGE	UNDERGROUND ELECTRIC
GEC	GROUNDING ELECTRODE CONDUCTOR	UGP	UNDERGROUND PRIMARY
HH	HANDHOLE	UGS	UNDERGROUND SECONDARY
HOA	HAND-OFF-AUTOMATIC	UL	UNDERWRITERS' LABORATORIES
HP	HEAT PUMP OR HORSEPOWER	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING, VENTILATION & AIR-CONDITIONING	UPS	UNINTERRUPTIBLE POWER SUPPLY
IG	ISOLATED GROUND	V	VOLT
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT-AMPERES
JB	JUNCTION BOX	VAR	VOLT-AMPERES REACTIVE
k	KILO	VAV	VARIABLE AIR VOLUME UNIT
kAIC	KILO-AMPERE INTERRUPTING CAPABILITY	W	WATTS
KCMIL	THOUSAND CIRCULAR MILS	WAO	WORK AREA OUTLET
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF
LTG	LIGHTING	WST	WITHSTAND RATING
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	XFMR	TRANSFORMER
LV	LOW VOLTAGE	XP	EXPLOSION PROOF
MAX	MAXIMUM	φ	PHASE
MCA	MINIMUM CIRCUIT AMPACITY	72°	DEGREES
MCC	MOTOR CONTROL CENTER	Δ	DELTA
MCE	MAIN COMMUNICATIONS EQUIPMENT ROOM	Ω	OHMS



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EXTERIOR DOORS, HARDWARE
AND STOREFRONT REPLACEMENT
MOBILE, ALABAMA

GMC NO. AMOB170029.004

ELECTRICAL LEGEND
PHASE II

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