

Order Plans @

ELECTRICAL ABBREVIATIONS	
ACT	ABOVE COUNTERTOP OR BACKSPASH
AC	ABOVE COUNTER
AMP	AMPERES
AF/AFG	ABOVE FINISHED FLOOR/ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
BC	BELOW CEILING
BD	BOARD
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAP	CAPACITY
CBKR	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CL	CENTER LINE
COL	COLUMN
CONN	CONNECTION
CONT	CONTINUATION
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DET	DETAIL
D/EDF	ELECTRICAL DRINKING FOUNTAIN
DN	DOWN
DS	DISCONNECT SWITCH
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
ET	EXHAUST FAN
ELEC	ELECTRIC
EQ	EQUIPMENT
EX	EXISTING
FA	FIRE ALARM
FAMP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FU	FUSED
FL	FLOOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KAC	KILO-AMPERE INTERRUPTING CAPACITY
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MISC	MISCELLANEOUS
MRS	MOTOR RATED SWITCH
MTR	MOTOR
MTD	MOUNTED
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NF	NONFUSED
NO	NUMBER
NTS	NOT TO SCALE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
R	RELOCATED
RU	ROOF TOP UNIT
SU	SWITCH
SW	SWITCH
TEF	TOILET EXHAUST FAN
UNO	UNLESS NOTED OTHERWISE
WG	WIRE GUARD
WH	WATER HEATER
WP	WEATHER PROOF
XMR	TRANSFORMER

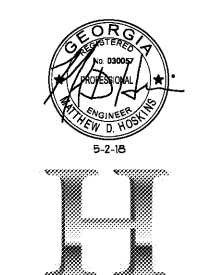
- ELECTRICAL GENERAL NOTES
- ALL WORK WITHIN THIS DIVISION SHALL COMPLY WITH ALL LOCAL BUILDING REGULATIONS, CODES, LAWS, ORDINANCES, AND REQUIREMENTS OF THE 2017 NATIONAL ELECTRICAL CODE.
  - AT THE COMPLETION OF HIS/HER WORK, THE CONTRACTOR SHALL SUBMIT "AS BUILT" DRAWINGS TO THE OWNER. THESE "AS BUILT" DRAWINGS SHALL SERVE AS A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.
  - DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY FITTING AND DETAIL. ALL WORK SHALL BE INSTALLED SO THAT JUNCTION BOXES AND COMPONENTS SHALL BE ACCESSIBLE FOR SERVICE.
  - ALL EQUIPMENT, SYSTEMS, COMPONENTS, WORK, ETC. PROVIDED AND INSTALLED UNDER THIS DIVISION SHALL BE COVERED BY A COMPLETE TWO YEAR WARRANTY STARTING AT THE TIME OF FINAL APPROVAL AND ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS IN THE EQUIPMENT, SYSTEMS, COMPONENTS, ETC. FOUND DURING THIS TWO YEAR TIME SHALL BE CORRECTED AT NO CHARGE. THIS WARRANTY SHALL INCLUDE PROVIDING ALL NECESSARY PATCHWORK, CUTTING, REPAINTING, ETC. TO INSURE THE WORK IS COMPLETE AND NEW.
  - ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO GENERAL ACCEPTED PRINCIPALS OF FIRST CLASS WORKMANSHIP.
  - THESE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF ELECTRICAL WORK. DATA SHOWN ON THESE DRAWINGS IS AS ACCURATE AS PLANNING CAN DETERMINE. BUT FIELD VERIFICATION OF ALL DIMENSIONS, LEVELS, LOCATIONS, ETC. TO FIELD CONDITIONS SHALL BE REQUIRED. CONTRACTOR SHALL VERIFY ALL ARCHITECTURAL, CIVIL, STRUCTURAL, AND MECHANICAL DRAWINGS AND SHALL ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS INDICATED.
  - CONTRACTOR SHALL COOPERATE AND COORDINATE WITH OTHER TRADES TO INSURE THAT INSTALLATION OF ELECTRICAL EQUIPMENT AND OUTLETS SHALL BE PROPERLY COORDINATED. CONDUIT, FITTINGS, AND EQUIPMENT LOCATIONS SHALL BE CHECKED AND COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH STEEL PIPING, BEAMS, DUCTWORK, OR OTHER OBSTRUCTIONS.
  - WHERE WORK BY THE GENERAL CONTRACTOR (NEW OR RELOCATED WALL OPENINGS, WALL REMOVAL, ETC.) RESULTS IN THE RELOCATION, REMOVAL, OR REFEEDING OF ELECTRICAL DEVICES OR LIGHTING FIXTURES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM(S) AS REQUIRED.
  - RING OUT ALL CIRCUITS IN EXISTING PANEL(S) AFFECTED BY THIS ALTERATION. WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS THAT ARE AVAILABLE FOR REUSE AND/OR PROVIDE NEW BREAKERS. ALL UNUSED CIRCUITS SHALL BE TAGGED AS SPARE AND ALL INOPERATIVE CIRCUIT BREAKERS SHALL BE REPLACED. ALL CONNECTIONS SHALL BE TIGHTENED AS REQUIRED.
  - ALL EXISTING FIRE ALARM, POWER DISTRIBUTION, JUNCTION BOXES, ETC. SHALL BE RELOCATED IF LOCATED OVER A CEILING SHEETED AS GYPSUM BOARD. ALL EXISTING JUNCTION BOXES SHALL BE RELOCATED TO ACCESSIBLE LOCATIONS AS NECESSARY.
  - WHERE ANY EXISTING CIRCUIT(S) TO REMAIN IS INTERRUPTED BY CONSTRUCTION, CIRCUIT SHALL BE MADE CONTINUOUS.
  - PROVIDE "HACK" TYPE BREAKERS FOR ALL MECHANICAL EQUIPMENT.
  - IN CASES WHERE CONFLICT OCCURS BETWEEN DRAWINGS AND SPECIFICATIONS OR BETWEEN DIFFERENT TRADES, AS WELL AS CASES OF ANY OMISSION OF INFORMATION, NOTIFY THE ARCHITECT OR ENGINEER TO RESOLVE AND OBTAIN RESOLUTION OF THE CONFLICT OR OMISSION BEFORE PROCEEDING WITH THE INSTALLATION.
  - WHERE DEMOLITION DISRUPTS ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES AND/OR LIGHTS, AND NO RECONNECTION IS INDICATED, RECONNECT TO ITS EXISTING CIRCUIT.
  - ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS. WIRING SHALL BE INSTALLED AT DEPTHS BELOW FINISHED GRADE (BELOW SLAB AND SUB-BASE LEVEL) PER NEC 300.5.
  - PROVIDE ALL GROUNDING AS REQUIRED PER NEC.
  - A COMMON NEUTRAL SHALL BE USED AS PERMITTED BY THE NEC FOR MULTIWIRE BRANCH CIRCUITS. A SEPARATE NEUTRAL SHALL BE PROVIDED FOR ALL CIRCUITS CONNECTED TO GROUND FAULT CIRCUIT INTERRUPTED (GFCI) TYPE DEVICES.
  - ALL BRANCH CIRCUIT CONDUCTORS SHALL INCLUDE A SEPARATE, GREEN GROUND WIRE SIZED PER NEC AS INDICATED CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRALS REQUIRE ONLY ONE GROUND WIRE UNLESS OTHERWISE NOTED.
  - PROVIDE #12 AWG GROUND WIRE FOR ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL WHICH FEEDS THE EQUIPMENT.
  - ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THW" OR "THHN" INSULATION. THE MINIMUM WIRE SIZE SHALL BE #12 AWG WITH 150°C WET TEMPERATURE RATING.
  - MINIMUM HOMERUN SIZE SHALL BE 3/4".

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	ON CENTER MOUNTING HEIGHT
	CONCEALED CONDUIT IN CEILING OR WALL	
	CONCEALED CONDUIT IN FLOOR OR UNDERGROUND	
	EXPOSED CONDUIT	
	CIRCUIT HOMERUN TO PANEL. EACH ARROWHEAD = 1 CIRCUIT	
	NUMBER OF CONDUCTORS IN CONDUIT. EACH TICKMARK = 1 WIRE. (GROUND WIRE NOT INDICATED)	
	FLEXIBLE CONDUIT OR S.O. CORD.	
	CONDUIT STUBBED UP OR STUBBED DOWN	
	SURFACE MOUNTED RACEWAY	
	MULTI-OUTLET SURFACE MOUNTED RACEWAY	
	FIRE RETARDANT PLYWOOD BACKBOARD	
	WALL MOUNTED SINGLE RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED DUPLEX RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE OUTLET	AS REQ'D
	CEILING MOUNTED DUPLEX RECEPTACLE OUTLET	
	WALL MOUNTED DUPLEX RECEPTACLE OUTLET ON ITS OWN CIRCUIT	18" A.F.F.
	WALL MOUNTED DUPLEX RECEPTACLE OUTLET	18" A.F.F.
	ABOVE COUNTER DUPLEX RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED QUAD RECEPTACLE OUTLET	18" A.F.F.
	WALL MOUNTED SPECIAL PURPOSE RECEPTACLE OUTLET	18" A.F.F.
	JUNCTION BOX - TYPE AND MOUNTING AS REQUIRED	
	CEILING MOUNTED TELEPHONE OUTLET	18" A.F.F.
	CEILING MOUNTED DATA OUTLET	18" A.F.F.
	WALL MOUNTED DATA/TELEPHONE OUTLET	18" A.F.F.
	CABLE T.V. OUTLET - WALL, CEILING MOUNTED	
	120/208 VOLT PANELBOARD	
	277/480 VOLT PANELBOARD	
	WALL MOUNTED SINGLE POLE SINGLE THROW TOGGLE SWITCH	48" A.F.F.
	WALL MOUNTED 3-WAY TOGGLE SWITCH	48" A.F.F.
	WALL MOUNTED 4-WAY TOGGLE SWITCH	48" A.F.F.
	WALL MOUNTED DIMMER SWITCH (SIZE AND WATTAGE AS REQUIRED)	48" A.F.F.
	DISCONNECT SWITCH (FRAME SIZE/POLES/FUSE-IF REQUIRED) SIZE SHALL BE 30/3/NF UNLESS NOTED OTHERWISE.	AS REQ'D
	MOTOR STARTER SUPPLIED BY DIVISION 15	AS REQ'D
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH	AS REQ'D
	MOTOR - NUMBER INDICATES HORSEPOWER (F=FRACATIONAL)	
	2X4 LIGHT FIXTURE - NORMAL POWER, EMERGENCY POWER	
	CEILING MOUNTED LIGHT FIXTURE - NORMAL POWER, EMERGENCY POWER	
	EXIT SIGN - CEILING, WALL MOUNTED	
	EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP.	
	COMBINATION EMERGENCY LIGHT FIXTURE AND EXIT SIGN WITH BATTERY BACKUP.	

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	MANUFACTURER	REMARKS
GA	4'-0" FLUORESCENT SHIP FIXTURE, 90 MINUTE MINIMUM EMERGENCY BATTERY BACKUP BALLAST.	(2) T3208/9X36/ED	IMALITE LIGHTING "LUM" SERIES	
WA	EXTERIOR LED WALL SCENE WITH EMERGENCY BATTERY BACKUP. U.L. LISTED FOR WET LOCATION.	28W LED (2700K)	TU LIGHTING "TODAL EB WII LED" (RFL-WII-L324-221100-120V-18-30W-EB)	COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND/OR OWNER.
WB	EXTERIOR WALL MOUNTED LED EMERGENCY EXIT FIXTURE. U.L. LISTED FOR WET LOCATION.	30W LED (2700K)	LUMINARE LED (AFL30-30W-3000K-125/277/0P-02H-1M6210-18/SD)	COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND/OR OWNER.
WC	EXTERIOR LED WALL PACK MOUNTED UNDER EACH CANOPY. U.L. LISTED FOR WET LOCATION.	43W LED (5000K)	IMALITE LIGHTING "260L2" SERIES	COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND/OR OWNER.
WD	EXTERIOR LED FULL CUTOFF WALLPACK. U.L. LISTED FOR WET LOCATION.	63W LED (5000K)	IMALITE LIGHTING "260L2" SERIES	COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND/OR OWNER.
WE	EXTERIOR LARGE SCENE, 7'W x 21.75'H BUCKYITE BRACED, STAINLESS STEEL MESH SHADE MATERIAL. U.L. LISTED FOR WET LOCATION.	5W LED (2700K)	DOAN HOSPITALITY #48807	COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND/OR OWNER.
ZZ	COMBINATION UNIVERSAL MOUNTED LED EXIT SIGN AND DUAL HEAD EMERGENCY LIGHTING UNIT WITH 5.4H HOURGLASS HEADS. PROVIDE DIRECTIONAL ARROWS, DOUBLE OR SINGLE FACE AS SHOWN. PROVIDE WITH 90 MINUTE MINIMUM BATTERY BACKUP.	LED	LIGHTLARKS UCLIN SERIES	OR EQUAL BY LITHONIA "LUM" SERIES



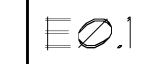
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ELECTRICAL  
 LEGEND, NOTES, &  
 DETAILS

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