GENERAL ELECTRICAL NOTES

NOTES

1. ALL SYMBOLS ARE NOT NECESSARILY USED IN THIS PROJECT.
2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO ALLOW OTHER METHODS AND MATERIALS NOT REFLECTED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST THE ENGINEER WAIVE THE STANDARDS TO ALLOW ALTERNATE MEANS AND METHODS PRIOR TO BEGINNING THE PROJECT. CONTRACT DOCUMENT REVISIONS TO ACCOMMODATE INSTALLED CONDITIONS, WITHOUT PRIOR APPROVAL, WILL RESULT IN ADDITIONAL DESIGN CHARGES TO THE CONTRACTOR.
3. ELECTRICAL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE NECA INSTALLATION STANDARDS TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
4. ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE CURRENTLY ACCEPTED EDITION OF ALL APPLICABLE NATIONAL, STATE AND CITY CODES AND ORDINANCES.
5. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY AS ALLOWED BY AUTHORITY HAVING JURISDICTION.
6. WHERE AN APPARENT DISCREPANCY EXISTS BETWEEN THE REQUIREMENTS OF THE GENERAL NOTES AND INFORMATION PORTRAYED IN THE ELECTRICAL DRAWINGS, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF THE GREATER QUALITY OR QUANTITY.
7. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BID AND VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS REQUIRED FOR PERMITS AND INSPECTIONS.
8. CONTRACTOR SHALL VERIFY, WITH OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING BID, ALLOWABLE WORKING HOURS, EMPLOYEE PARKING AREAS, MATERIAL DELIVERY, STORAGE REQUIREMENTS, DEMOLITION AND REMOVAL OF CONSTRUCTION DEBRIS, AS WELL AS DAILY CLEAN UP REQUIREMENTS. INCLUDE ALL COSTS IN BID FOR DUST BARRIERS, DUMPSTER'S ETC. AS REQUIRED FOR THE DURATION OF THE PROJECT. PERFORM ALL WORK AS DIRECTED BY OWNER'S REPRESENTATIVE AND ARCHITECT.
9. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS AT NO ADDITIONAL COST TO OWNER.
10. CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. ALL DEFECTS SHALL BE PROMPTLY CORRECTED BY CONTRACTOR WITHOUT ADDITIONAL CHARGE TO OWNER.
11. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ACCURATE CONDUIT AND DEVICE LOCATIONS DIMENSIONED FROM PERMANENT LANDMARKS SUCH AS BUILDING WALLS.
12. DO NOT SCALE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATION OF ALL DEVICES, JUNCTION BOXES, LIGHTING FIXTURES, ETC. WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ROUGH-IN. EVERY OUTLET HEIGHT SHALL BE VERIFIED ON EACH WALL WITH THE INTERIOR PLANNING AND DESIGN DRAWINGS. COORDINATE WITH CABINET SHOP DRAWINGS TO ENSURE PROPER HEIGHT AND LOCATION WITH RESPECT TO MILLWORK, EQUIPMENT, ETC.
13. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE ELECTRICAL SYSTEMS, EQUIPMENT, LIGHTING FIXTURES, OUTLETS AND DEVICES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCT, PIPING CONFLICTS, OR OTHER LEGITIMATE REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK INDICATED IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING. UPON APPROVAL, THE WORK SHALL BE PERFORMED AND THE AS-BUILT DRAWINGS SHALL BE REVISED TO ACCURATELY REFLECT THE WORK AS ACTUALLY INSTALLED.
14. RACEWAY SYSTEMS ARE SHOWN DIAGRAMMATICALLY. ACTUAL LOCATION AND ROUTING OF ALL, SHALL BE DETERMINED BY CONTRACTOR TO SUIT FIELD CONDITIONS.
15. PROVIDE DEDICATED NEUTRAL FOR EACH NEW CIRCUIT. HOME RUN CONDUCTORS MAY BE COMBINED INTO ONE CONDUIT. NO RACEWAY OR CABLE SHALL CONTAIN MORE THAN NINE (9) CURRENT CARRYING CONDUCTORS. WHERE MULTIPLE CONDUCTORS IN EXCESS OF THREE (3) ARE INDICATED ON THESE DRAWINGS, THEY HAVE BEEN DE-RATED AS REQUIRED BY NEC ARTICLE 310 REQUIREMENTS.
16. WHERE ALLOWED, MC CABLE MAY BE INSTALLED PER NEC ARTICLE 330. WHERE MULTIPLE CABLES ARE ROUTED ADJACENT TO EACH OTHER (BUNDLED), A MINIMUM SEPARATION OF ONE (1) CABLE DIAMETER (LARGEST) SHALL BE REQUIRED.
17. PLASTIC CABLE TIES SHALL NOT BE USED AS A MEANS OF SUPPORT FOR MC CABLE. USE ONLY APPROVED CABLE SUPPORTS PER CABLE MANUFACTURER'S INSTALLATION REQUIREMENTS.
18. RACEWAYS SHALL BE INSTALLED CONCEALED (IN CMU OR OTHER WALL) WHENEVER POSSIBLE. RACEWAYS INSTALLED EXPOSED SHALL BE ROUTED OUT OF PUBLIC VIEW AS MUCH AS POSSIBLE. RACEWAYS SHALL BE RUN PARALLEL WITH, OR AT RIGHT ANGLE TO WALLS.
19. PROVIDE APPROVED EXPANSION FITTINGS WHERE RACEWAYS CROSS BUILDING EXPANSION JOINTS. PROVIDE BONDING JUMPER(S) SIZED PER CODE WHERE REQUIRED. PROVIDE ALL FITTINGS REQUIRED FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATION(S).
20. MINIMUM RACEWAY SIZE SHALL BE 1/2". MINIMUM HOMERUN SIZE SHALL BE 3/4". MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG U.N.O. TYPICAL. ALL POWER RELATED CONDUITS SHALL HAVE A CODE SIZE GROUND WIRE INSTALLED IN EACH RUN.
21. CONTRACTOR SHALL PROVIDE PULL CORDS IN ALL EMPTY CONDUITS. WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX, THE CONTRACTOR SHALL IDENTIFY EACH CONDUIT AND JUNCTION BOX IN A MANNER ALLOWING IDENTIFICATION AFTER ALL WALL FINISHES HAVE BEEN APPLIED.
22. CONTRACTOR SHALL PROVIDE ALL RACEWAY SYSTEMS INDICATED ON THE DRAWING PER NEC REQUIREMENTS AND GENERAL NOTES. ANY DEVIATION FROM THE WIRING METHODS INDICATED SHALL BE ALLOWED ONLY BY SPECIFIC WRITTEN APPROVAL FROM EITHER THE ARCHITECT, ENGINEER OR OWNER. CONTRACTOR'S BID SHALL INCLUDE ALL COSTS FOR RACEWAY SYSTEMS AS SPECIFIED UNLESS SPECIFIC WRITTEN APPROVAL FOR AN ALTERNATIVE WIRING METHOD IS OBTAINED FROM EITHER THE ARCHITECT, ENGINEER OR OWNER AND IS SUBMITTED AS PART OF CONTRACTOR'S FORMAL BID PROPOSAL.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT SIZE AND INSTALLATION OF ALL OUTLET, PULL AND JUNCTION BOXES IN ACCORDANCE WITH NEC 314-16. ALL BOXES SHALL BE MINIMUM 4" SQUARE BY 1-1/2" DEEP OR AS INDICATED ON THE DRAWINGS. ALL BOXES SHALL BE RECESSED WITH COVER PLATE TO SUIT THE INTENDED APPLICATION.
24. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN(S) FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES. ARCHITECTURAL DRAWINGS SHALL GOVERN IN CASE OF CONFLICT WITH THESE DRAWINGS.
25. PRIOR TO INSTALLATION, CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR CONFLICTS WITH OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICT DURING INSTALLATION. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN EQUIPMENT LOCATION AND ROUTING AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
26. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW ELECTRICAL WORK ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS THE EXISTING WORK AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT.

NOTES (CONT'D.)

27. ALL ELECTRICAL EQUIPMENT SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE QUANTITY AND SIZE OF CONDUCTORS REQUIRED. CONTRACTORS SHALL PROVIDE EQUIPMENT WITH OVERSIZED ENCLOSURES WHERE REQUIRED.
28. ALL NEW PANELBOARDS AND SWITCHBOARDS SHALL BE OF THE SAME MANUFACTURER AND HAVE LOCKING DOORS AND BE KEYED THE SAME U.N.O.
29. PROVIDE TYPE WRITTEN UPDATED PANEL DIRECTORY TO BE MOUNTED ON INSIDE OF ALL PANEL DOOR COVERS. DIRECTORY SHALL REFLECT ALL ADDITIONS OR MODIFICATIONS TO EXISTING PANELS AND SHALL REFLECT ACTUAL "AS-BUILT" CONDITIONS.
30. VERIFY DEVICE COLOR AND MOUNTING ORIENTATION (VERTICAL OR HORIZONTAL) WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO ORDERING ANY EQUIPMENT AND PROVIDE DEVICES AS REQUIRED. UNLESS NOTED OTHERWISE, DEVICES AND DEVICE PLATES SHALL BE WHITE IN COLOR.
31. WHERE MOTORS ARE INSTALLED IN SUSPENDED CEILINGS, CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH IN SUSPENDED CEILING WITHIN REACH FROM ACCESS POINT.
32. SIZING OF MOTOR-RELATED ELECTRICAL COMPONENTS, INCLUDING FEEDER AND/ OR BRANCH CIRCUITS (WIRE AND CONDUIT) AND OVERCURRENT PROTECTION (BREAKER AND/ OR FUSES) IS BASED ON RATINGS INDICATED IN THE CONTRACT DOCUMENTS AS WELL AS NEC APPROXIMATED LOADS FOR A GIVEN MOTOR HORSEPOWER, VOLTAGE AND PHASE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL MOTOR AND APPLIANCE RATING AND LOADS. CONTRACTOR TO PROVIDE CORRECTLY SIZED MOTOR OVERLOAD ELECTRICAL COMPONENTS BASED ON NAMEPLATE RATING. REFLECT ALL CHANGES IN THE AS-BUILT DRAWINGS.
33. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW OF THE FOLLOWING EQUIPMENT:
    A. ELECTRICAL SWITCHGEAR: SWITCHBOARDS, WITH PANELS, MOTOR CONTROL CENTERS AND SAFETY DEVICES.
    B. OVERCURRENT DEVICES: CIRCUIT BREAKERS AND FUSES INCLUDING TIME/CURRENT TRIP CURVES.
    C. LIGHTING FIXTURES: INDOOR/OUTDOOR AS SPECIFIED, PHOTOMETRIC PERFORMANCE DATA AND LAMPS.
    D. DEVICES: SWITCHES, RECEPTACLES, MOTOR CONTROLLERS AND DEVICE PLATES.
    E. LIFE SAFTY/FIRE ALARM SYSTEM: CONTROL PANEL, ANNUNCIATOR PANEL, INITIATION AND NOTIFICATION DEVICES/APPLIANCES, SYSTEM WIRING REQUIREMENTS AND DIAGRAM, SYSTEM LOAD CALCS, STANDARD BATTERY CALCULATIONS, AND AUXILIARY POWER SUPPLY.
34. ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DIAGRAMS THAT CONFORM TO UL LISTING FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS".
35. CONTRACTOR SHALL ENGAGE THE SERVICES FOR A STATE LICENSED FIRE ALARM MANUFACTURER/INSTALLER TO PREPARE ALL DESIGN DRAWINGS AND CALCULATIONS REQUIRED FOR SYSTEM APPROVAL BY THE AUTHORITY HAVING JURISDICTION. SUBMIT ALL PLANS AND PROVIDE ALL PERMITS REQUIRED FOR A COMPLETE AND OPERABLE APPROVED LIFE SAFETY SYSTEM.
36. FIRE ALARM DEVICE WIRING SHALL BE MINIMUM #14 AWG COPPER OR PER SYSTEM MANUFACTURER REQUIREMENTS. PROVIDE MINIMUM 3/4" SEPARATE RACEWAY SYSTEM OR AS REQUIRED FOR LIFE SAFETY SYSTEM WIRING CONFIGURATION.
37. UPON COMPLETION OF THE INSTALLATION OF LIFE SAFETY SYSTEM WIRING AND DEVICES, A PERFORMANCE TEST OF THE ENTIRE LIFE SAFETY SHALL BE PERFORMED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
38. ALL EQUIPMENT ELECTRICAL TERMINATIONS TO UNDERGO A TORQUE TEST. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MANUFACTURER'S RECOMMENDED TORQUE DOCUMENTATION AND TOOLS TO PERFORM TORQUE TEST.
39. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED PER NEC ARTICLE 230-8.
40. FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH CONCRETE PAD.
41. COORDINATE ELECTRICAL REQUIREMENTS FOR ALL PLUMBING AND MECHANICAL EQUIPMENT WITH FINAL CONTRACTOR SELECTION. THE CONTRACTOR SHALL SIZE DISCONNECTS BASED UPON CIRCUIT BREAKER RATINGS AND PROVIDE FUSING AS REQUIRED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS AND U.L. LISTING REQUIREMENTS.
42. PROVIDE 10 AWG CONDUCTORS FOR 20 AMPERE, 120V BRANCH CIRCUITS LONGER THAN 75' AND 8 AWG CONDUCTORS FOR 20 AMPERE, 120V BRANCH CIRCUITS LONGER THAN 120'. PROVIDE 10 AWG CONDUCTORS FOR 20 AMPERE, 277V BRANCH CIRCUITS LONGER THAN 200' UNLESS OTHERWISE NOTED.

DRAWING INDEX

ELECTRICAL LEGEND

LIGHTING

SYMBOL	DESCRIPTION
	LINEAR FLUORESCENT FIXTURE
	LINEAR FLUORESCENT FIXTURE
	SUSPENDED LINEAR FLUORESCENT FIXTURE
	FLUORESCENT WALL MOUNT FIXTURE
	LINEAR FLUORESCENT STRIP FIXTURE
	LIGHT FIXTURE - RECESSED OR SURFACE
	PENDANT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	WALL SCONCE
	WALL WASHER
A	LETTER REFERS TO FIXTURE TYPE
	MONO-POINT LIGHT FIXTURE
	TRACK LIGHT FIXTURE
	PARKING LOT POLE MOUNTED LIGHT FIXTURE
	BOLLARD LIGHT FIXTURE
	EXIT SIGN - CEILING MOUNTED
	EXIT SIGN - WALL MOUNTED
	EXIT SIGN - W/ARROWS INDICATE DIRECTION
	EMERGENCY BATTERY UNIT WITH HEADS
	FIXTURE w/ EMERGENCY BATTERY OR GENERATOR
	SINGLE POLE SWITCH, 20A, 120/277V
$	TWO POLE SWITCH, 20A, 120/277V
$	THREE-WAY SWITCH, 20A, 120/277V
$	FOUR-WAY SWITCH, 20A, 120/277V
$	DIMMER SWITCH, MIN. 2000W, 120/277V
$	HP RATED MOTOR SWITCH WITH THERMAL OVERLOAD PROTECTION
$	LOWER CASE LETTER DENOTES FIXTURES TO BE CONTROLLED
$	KEY SWITCH, 20A, 120/277V
$	PUSH BUTTON CONTROL STATION
OS	OCCUPANCY SENSOR - CEILING
OS	OCCUPANCY SENSOR - WALL MOUNTED
OS D	OCCUPANCY SENSOR w/DIMMER-WALL MOUNTED
LC	LIGHTING CONTACTOR
TC	TIME CLOCK
PC	PHOTOCELL

POWER

SYMBOL	DESCRIPTION
	SINGLE RECEPTACLE, NEMA 5-20R, 20A, 125V
	DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V
	DUPLEX RECEPTACLE / HALF-SWITCHED
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - VERIFY MOUNTING HEIGHT
	GFCI RECEPTACLE, ABOVE COUNTER
	SPECIAL PURPOSE OUTLET (TYPE AS NOTED)
C	CLOCK OUTLET NEMA 5-20R, 20A, 125V w/ RECESSED COVER PLATE AT +90", U.N.O.
	DUPLEX RECEPTACLE NEMA 5-20R, 20A, 125V - FLUSH MOUNT CEILING
	FLOOR OUTLET w/ DEVICE AS INDICATED
	COMBINATION FLOOR OUTLET w/ DEVICES AS INDICATED
J	JUNCTION BOX
J	JUNCTION BOX - WALL MOUNT
J	JUNCTION BOX - FLUSH FLOOR MOUNT
	MULTI-OUTLET SURFACE RACEWAY w/ NEMA 5-20R, 20A, 125V AT 12" ON CENTER., U.N.O.
PB	PULLBOX - EXTERIOR OR INTERIOR AS INDICATED
	TELEPHONE TERMINAL CABINET AT +72" TO TOP
	TELEPHONE BACKBOARD
	PANELBOARD - SURFACE MOUNT
	PANELBOARD - FLUSH MOUNT
	SWITCHBOARD OR DISTRIBUTION BOARD
	METER SERVICE PEDESTAL
	NON-FUSED DISCONNECT SWITCH
F	FUSED DISCONNECT SWITCH
	MOTOR CONTROLLER OR STARTER
	COMBINATION CONTROLLER/DISCONNECT SWITCH
	VENDOR FURNISHED COMBINATION CONTROLLER/DISCONNECT SWITCH

SIGNAL

SYMBOL	DESCRIPTION
T F-1	THERMOSTAT OUTLET AT +54" (HVAC UNIT DESIGNATION)
	ENCLOSED CIRCUIT BREAKER
R	RELAY
TS	TIME SWITCH
C	CONTACTOR
T	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
	TELEPHONE OUTLET AT +18"
	DATA OUTLET AT +18"
	COMBINATION TELE/COMPUTER OUTLET AT +18"
	TELEPHONE OUTLET ABOVE COUNTER
	TELE/DATA OUTLET ABOVE COUNTER
	DATA OUTLET ABOVE COUNTER
	FLUSH FLOOR BOX WITH COMBINATION TELE/DATA OUTLET
TV	TELEVISION OUTLET
C	TELEVISION CAMERA (CCTV)
S	FIRE ALARM HORN/STROBE
CR	CARD READER
FS	FLOW SWITCH
TS	TAMPER SWITCH
SD	SMOKE DETECTOR
FD	FIRE/SMOKE DAMPER
CO	CARBON MONOXIDE DETECTOR (SPECIFIED BY MECHANICAL ENGINEER)
SD	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR
S	SPEAKER, CEILING OR WALL MOUNTED
DH	DOOR HOLD OPEN

NOTES: FOR PHONE AND DATA OUTLETS PROVIDE ONE (1) 3/4"C.O. RISER UP WALL WITH PULL STRING TO ACCESSIBLE CEILING SPACE.

SINGLE LINE

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	SERVICE CABLE TERMINATION
	FUSE
	FUSED DISCONNECT SWITCH
	SWITCH
TVSS	SURGE SUPPRESSOR
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	GROUNDING ELECTRODE
M	POWER METER
	MOTOR
G	GENERATOR
ST	SHUNT TRIP
GFI	GROUND FAULT INTERRUPT
	TRANSFER SWITCH
C	CONTACT (NORMALLY OPEN)
C	CONTACT (NORMALLY CLOSED)
	TIME SWITCH
	CONTROL SWITCH
	PUSH BUTTON

WIRING

SYMBOL	DESCRIPTION
	CONDUIT ROUTED UNDERFLOOR / UNDERGROUND
	RACEWAY W/#12 CONDUCTORS UNO
	RACEWAY TURNED UP
	RACEWAY TURNED DOWN
	HOMERUN TO PANELBOARD 1/2"C W/3#12 CONDUCTORS UNO
	CONDUIT CAP-OFF

MISCELLANEOUS

SYMBOL	DESCRIPTION
UNIT #	EQUIPMENT TAG
# SHEET	DIAGRAM TAG
1	REVISION SYMBOL
1	KEYNOTE SYMBOL
XX	SCHEDULED EQUIPMENT
F01	FEEDER SCHEDULE

STANDARD ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AF	ARC FAULT, AMP FUSE
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH'L	ARCHITECTURAL
AS	AMP SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAT	CATALOG/CATEGORY
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CO, EC	CONDUIT ONLY
COMM	COMMUNICATION
CU	COPPER
DEMO	DEMOLITION/DEMOLISH
DISC.	DISCONNECT
DN	DOWN
DWG	DRAWING
EA	EACH
ELECT.	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
(E), EXIST	EXISTING
FBO	FURNISHED BY OTHERS
FF	FINISHED FLOOR
FIXT	FIXTURE
FLEX	FLEXIBLE METALLIC CONDUIT (STEEL)
FLUOR	FLUORESCENT
FT	FEET OR FOOT
GFA	GROUND FAULT ALARM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
IMC	INTERMEDIATE METAL CONDUIT
IN	INCH(ES)
IRC	INTERNATIONAL RESIDENTIAL CODE
ISC	SHORT CIRCUIT AMPERES
JB, J-BOX	JUNCTION BOX
KCMIL, MCM	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MAX.	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MECH.	MECHANICAL
MIN.	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NECA	NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NFC	NATIONAL FIRE CODE
NF	NON-FUSIBLE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NPCO	NEVADA POWER COMPANY
NTS	NOT TO SCALE
OCP	OVERCURRENT PROTECTION
P	POLE
PH	PHASE
PNL	PANEL
PV	PV PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
RECEP	RECEPTACLE
REQ'D	REQUIRED
RSC	RIGID STEEL CONDUIT
SCHED	SCHEDULE
SECT	SECTION
SP	SINGLE POLE
SN	SOLID NEUTRAL
SPEC	SPECIFICATION
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCH GEAR
SYS	SYSTEM
TEMP	TEMPORARY
TELE	TELEPHONE
T-STAT	THERMOSTAT
TTB	TELEPHONE TERMINAL BACKBOARD
TTC	TELEPHONE TERMINAL CABINET
TYP.	TYPICAL
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
VD	VOLTAGE DROP
VP	VAPOR PROOF
W	WATT, WIRE
WCR	WITHSTAND CURRENT RATING
WP	UL LISTED WEATHERPROOF, NEMA 3R
XFMR	TRANSFORMER
(E)	EXISTING TO REMAIN
(R)	REMOVE

APPLICABLE CODES

2012 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (2014)(2015)

2012 INTERNATIONAL FIRE CODE WITH GEORGIA AMENDMENTS (2014)

2012 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS (2014)(2015)

2012 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS (2015)

2012 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMENDMENTS (2014)(2015)

2017 NATIONAL ELECTRICAL CODE

2009 INTERNATIONAL ENERGY CODE,GEORGIA SUPPLEMENTS AND AMENDMENTS (2011)(2012)

2012 NFPA 101 - LIFE SAFETY CODE WITH GEORGIA AMENDMENTS (2013)

ANY OTHER LOCAL AND STATE LAWS AND REGULATIONS

BUILDING DEPARTMENT NOTE:
ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

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DEL TACO

DO NOT SCALE DRAWINGS CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS-NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

GEORGIA REGISTERED No. PE039430 PROFESSIONAL ENGINEER JAISON P MORAS

JULY 5TH, 2018

NO	REVISION

DEL TACO STORE • DT2017
4525 JIMMY LEE SMITH PARKWAY
HIRAM, GA 30141
PAULTON COUNTY
1ST PERMIT SUBMITTAL 05-18-18
1ST BID SUBMITTAL 07-05-18

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ELECTRICAL NOTES

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