

ELECTRICAL LEGEND

- LIGHTING**
- DOWNLIGHT
 - WALL MOUNTED FLUORESCENT OR INCANDESCENT LUMINAIRE, AS NOTED
 - CEILING OR WALL MOUNTED HID LUMINAIRE
 - PORCELAIN KEYLESS
 - 1 X 4 FLUORESCENT LUMINAIRE
 - 2 X 2 FLUORESCENT LUMINAIRE
 - 2 X 4 FLUORESCENT LUMINAIRE
 - FLUORESCENT STRIP LUMINAIRE
 - TRACK LIGHT, AS NOTED OR SCHEDULED
 - DIRECTIONAL ACCENT OR WALL-WASH LUMINAIRE
 - PENDANT LIGHT
 - UNDER CABINET LIGHT
 - DOWN LIGHT
 - CEILING FAN SEE LUMINAIRE SCHEDULES FOR SPECIFICATIONS (LIGHT KITS)
 - CEILING OR WALL MOUNTED EXIT SIGN, INSTALL FACES AS INDICATED BY SHADING
 - EMERGENCY LIGHT AS NOTED AS NOTED

- POWER**
- STRAIGHT BLADE DUPLEX RECEPTACLE
 - SUBSCRIPTS:
 - HG = HOSPITAL GRADE
 - HGT = HOSPITAL GRADE TAMPER RESISTANT
 - GFI = GROUND FAULT INTERRUPTER
 - SS = SURGE SUPPRESSION
 - AC = 4" ABOVE COUNTER
 - STRAIGHT BLADE DOUBLE DUPLEX RECEPT. (FOURPLEX)
 - STRAIGHT BLADE SINGLE RECEPTACLE
 - STRAIGHT BLADE DUPLEX RECEPT. HALF-SWITCHED
 - STRAIGHT BLADE DUPLEX RECEPT. ON EMERGENCY CIRCUIT
 - OUTLET WITH SPECIAL DEVICE, AS NOTED
 - WALL MOUNTED OUTLET WITH SPECIAL DEVICE, AS NOTED

- FLOOR MOUNTED POWER BOX, AS NOTED
- FLOOR MOUNTED COMBINATION OUTLET BOX, AS NOTED
- POKE THROUGH, AS NOTED
- PEDESTAL OUTLET, AS NOTED
- JUNCTION BOX AS NOTED
- OUTLET BOX
- WALL MOUNTED OUTLET BOX
- ABOVE CEILING POWER DISTRIBUTION BOX
- SURFACE RACEWAY, AS NOTED
- CLOCK HANGER OUTLET
- TELE-POWER POLE
- FULL BOX
- CONNECTION TO MOTOR
- MAGNETIC MOTOR STARTER

- SUBSCRIPTS:**
- MS = MULTISPEED
 - SSRV = SOLID-STATE, REDUCED VOLTAGE
 - VF = VARIABLE FREQUENCY
 - SAFETY DISCONNECT SWITCH
 - FUSED DISCONNECT SWITCH
 - COMBINATION DISCONNECT AND STARTER
 - ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
 - SUBSCRIPTS:
 - AT = ADJUSTABLE TRIP
 - EAT = ELECTRONIC ADJUSTABLE TRIP
 - CL = CURRENT LIMITING
 - IF = INTEGRALLY FUSED
 - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
 - ST = SHUNT TRIP
 - KI = KEY INTERLOCK
 - ZSI = ZONE-SELECTIVE INTERLOCKING
 - CONNECTION TO PRE-WIRED EQUIPMENT
 - BREAKER PANEL
 - MOTOR CONTROL CENTER
 - TRANSIENT VOLTAGE SURGE SUPPRESSOR
 - TRANSFORMER
 - ENGINE GENERATOR

- CIRCUITING**
- CONDUIT RUN
 - CIRCUIT HOMERUN TO PANEL OR CABINET, NO. OF ARROWS INDICATE NO. OF CIRCUITS
 - CIRCUIT TURNED UP
 - CIRCUIT TURNED DOWN
 - CONDUIT STUB-OUT - CAP & MARK
 - CIRCUIT IN FLEXIBLE CONDUIT
 - SEALOFF

- SWITCHING**
- WALL MOUNTED SWITCH
 - SUBSCRIPTS:
 - 2 = DOUBLE POLE
 - 3 = 3-WAY
 - 4 = 4-WAY
 - D = DIMMER
 - K = KEYPAD OPERATED
 - SWITCH MOUNTED EMERGENCY SENSOR
 - PULL CHAIN
 - THERMOSTAT
 - OVERLOAD
 - LOW VOLTAGE
 - DOOR SWITCH

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

- SCHEMATIC WIRING GRAPHICS**
- METER
 - GROUND CONNECTION AS NOTED
 - FUSED DISCONNECT SWITCH
 - FUSES
 - MAGNETIC MOTOR STARTER
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- POWER TRANSFORMER**
- CURRENT TRANSFORMER
 - AMMETER
 - VOLT METER
 - TRANSFER SWITCH
 - GROUND FAULT PROTECTION
 - GENERATOR

- FIRE ALARM SYSTEM**
- FIRE ALARM CONTROL PANEL
 - FIRE ALARM GRAPHIC PANEL
 - FIRE ALARM ANNUNCIATOR PANEL
 - MANUAL PULL STATION
 - FIRE ALARM STROBE
 - GENERAL ALARM COMBINATION HORN/STROBE
 - FIRE ALARM HORN
 - CEILING OR WALL MOUNTED 120V SMOKE DETECTOR WITH BATTERY BACKUP
 - SMOKE DETECTOR IN VENTILATING DUCT
 - FAN SHUT-DOWN CONNECTION
 - MAG. DOOR HOLDER
 - SPRINKLER SYSTEM FLOW SWITCH
 - SPRINKLER SYSTEM TAMPER SWITCH
 - FIREFIGHTERS TELEPHONE JACK
 - LIFE SAFETY SPEAKER
 - LIFE SAFETY SPEAKER WITH STROBE
 - REMOTE PILOT LIGHT
 - REMOTE PILOT LIGHT WITH TEST SWITCH

- MONITOR MODULE**
- CONTROL MODULE
 - DAMPER CONNECTION

- COMMUNICATION SYSTEM**
- FLOOR MOUNTED TELEPHONE AND/OR DATA OUTLET BOX, AS NOTED
 - WALL MOUNTED TELEPHONE OUTLET
 - WALL MOUNTED DATA OUTLET
 - WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET BOX
 - PAY PHONE
 - TELEPHONE TERMINAL BOARD - TTB
 - CEILING OR WALL MOUNTED SPEAKER
 - VOLUME CONTROL
 - FLOOR OR WALL MOUNTED MICROPHONE OUTLET
 - CALL-IN SWITCH
 - TIME-TONE UNIT
 - CEILING OR WALL MOUNTED CLOCK
 - PROGRAM BELL
 - BUZZER
 - HOUSE PHONE/INTERCOM
 - MASTER INTERCOM STATION
 - CABLE/SATELLITE TELEVISION OUTLET
 - CLOSED CIRCUIT TELEPHONE
 - INTERCOM

- NOTATIONS**
- 1 - UPPER CASE LETTER AT LUMINAIRE (FLUORESCENT, ETC.) INDICATES LUMINAIRE TYPE. (CFL) = TYPE F1 LUMINAIRE IN AREA INDICATED.
 - 2 - LOWER CASE LETTER AT LUMINAIRE AND SWITCH (A, B, ETC.) INDICATE ASSOCIATED POINTS FOR SWITCHING.
 - 3 - SHADING WITHIN LUMINAIRE DENOTES UNIT ON EMERGENCY (EM) CIRCUIT.
 - 4 - "NL" WITHIN LUMINAIRE DENOTES UNIT ON NIGHT LIGHT CIRCUIT.
 - 5 - PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR OR GRADE TO CENTERLINE OF OUTLET.

CornerStone DESIGN
Electrical & Mechanical Engineering Consultants

504 Indian Trail Road, Suite 201C
Lilburn, Georgia 30047
(770) 717-0040
(770) 381-6844 (fax)

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

- AC - ABOVE COUNTER
- AFB - ABOVE FINISHED CEILING
- AFW - ABOVE FINISHED FLOOR
- AFG - ABOVE FINISHED GRADE
- AIC - AMPS INTERRUPTING CURRENT
- AL - ALUMINUM
- BFG - BELOW FINISHED GRADE
- CB - CIRCUIT BREAKER
- CR - CORROSION RESISTANT
- CPT - CONTROL POWER TRANSFORMER
- CT - CURRENT TRANSFORMER
- CJ - COPPER
- ELR - END OF LINE RESISTOR
- EM - EMERGENCY
- ES - EMERGENCY STOP
- ETM - ELAPSED TIME METER
- EW - ELECTRIC WATER COOLER
- FLA - FULL LOAD AMPS
- FVWR - FULL VOLTAGE, NON-REVERSING
- FVR - FULL VOLTAGE, REVERSING
- FWE - FURNISHED WITH EQUIPMENT
- GFI - GROUND FAULT INTERRUPTER
- GRC - GALVANIZED RIGID CONDUIT
- HGA - HAND-OFF-AUTOMATIC
- HP - HORSEPOWER
- IG - ISOLATED GROUND
- LC - LIGHTING CONTACTOR
- LOR - LOCAL-OFF-REMOTE
- LS - LEVEL SWITCH
- LT - LET THROUGH
- MCA - MINIMUM CIRCUIT AMPS
- MCB - MAIN CIRCUIT BREAKER
- MCC - MOTOR CONTROL CENTER
- MCCR - MOLDED CASE CIRCUIT BREAKER
- MCP - MOTOR CONTROL PROTECTION
- MLO - MAIN LINES ONLY
- NC - NORMALLY CLOSED
- NO - NORMALLY OPEN
- NTS - NOT TO SCALE
- OC - OVER CURRENT
- OL - OVERLOAD
- PT - POTENTIAL TRANSFORMER
- RVWR - REDUCED VOLTAGE, NON-REVERSING
- SC - SHORT CIRCUIT
- SR - SAFE OR
- TTB - TELEPHONE TERMINAL BOARD
- UG - UNDERGROUND
- VFD - VARIABLE FREQUENCY DRIVE
- WG - WIREGUARD
- WP - WEATHERPROOF
- XP - EXPLOSION PROOF
- ZS - LIMIT OR POSITION SWITCH

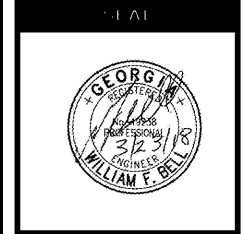
THESE DRAWINGS ARE DIAGRAMMATIC - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS. BRANCH CIRCUITING CONNECTIONS - #12 AMP PER PHASE AND NEUTRAL (WHERE REQUIRED) AND 20 AMPERE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED. PROVIDE QUANTITY AND SIZE SWITCH CONDUCTORS AS REQUIRED TO MAKE SYSTEM OPERATIONAL.

THESE "E" SHEETS PERTAIN TO THE BUILDING / STRUCTURE INTERIOR'S. SEE SITE ELECTRICAL PLANS BY OTHERS FOR SITE ELECTRICAL.

GENERAL NOTES (FOR ALL ELECTRICAL SHEETS)

1. COORDINATE LOCATION OF LUMINAIRE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
 2. PLANS DO NOT INDICATE ALL OF THE UG UTILITY LINES. RE: CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES OF ALL TRADES PRIOR TO ANY SITE WORK.
 3. PROVIDE (1) 3/4" WITH PULL WIRE FROM EACH TELEPHONE, DATA OR COMMUNICATION OUTLET SHOWN, TO ABOVE ACCESSIBLE CEILING, AND CAP, WHERE CEILING IS INACCESSIBLE, ROUTE CONDUIT TO TELCO DEMARC.
 4. COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER PRIOR TO ROUGH-INS.
 5. COORDINATE LOCATION OF ALL OUTLETS WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS AND EQUIPMENT INSTALLATION DRAWINGS.
 6. COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 7. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
 8. ALL 120V BRANCH CIRCUITS SHALL BE 3-WIRE (PHASE, NEUTRAL, GROUND).
 9. CONTRACTOR SHALL NOT ROUTE ANY CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS NOTED TO DO SO.
 10. ALL 120V, 1A, GENERAL PURPOSE RECEPTACLES SHALL BE GFCI TYPE.
 12. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DIAGRAMS FOR LOCATIONS OF FLOOR DEVICES AND WALL DEVICES. LOCATION WILL INDICATE VERTICAL AND/OR HORIZONTAL MOUNTING. IF DEVICES ARE NOT NOTED OTHERWISE THEY SHALL BE MOUNTED LONG AXIS VERTICAL AT +16" TO CENTER.
 13. INFORMATION ON THE DRAWINGS HAS BEEN ASCERTAINED FROM INFORMATION PROVIDED BY OTHERS. THIS INFORMATION IS AS ACCURATE AS CONDITIONS WOULD ALLOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE, PRIOR TO BID, AND FAMILIARIZE HIMSELF WITH THE EXTENT OF REMODEL WORK REQUIRED. NO EXTRAS WILL BE ALLOWED FOR ALTERATIONS OF A FORESEEABLE NATURE REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY CONTRACT DOCUMENTS.
 14. ALL NEW WIRING SHALL BE CONCEALED IN NEW WALLS OR ABOVE CEILINGS. SURFACE MOUNTED CONDUIT SHALL NOT BE USED IN ANY FINISHED AREAS.
 15. PROVIDE GFI PROTECTED OUTLETS AS REQUIRED BY NEC AND AFCI FAULT PROTECTION AS REQUIRED BY NEC.
 16. AT THE TIME OF DESIGN, INFORMATION ON SHORT CIRCUIT / FAULT CURRENTS WAS NOT AVAILABLE FROM UTILITY SINCE INFRASTRUCTURE HAD NOT BEEN COMPLETED. PRIOR TO ORDERING EQUIPMENT, VERIFY WITH UTILITY TO DETERMINE SHORT CIRCUIT/FAULT CURRENT VALUES. PROVIDE EQUIPMENT SUITABLE FOR THESE VALUES. MINIMUM AIC RATING TO BE 22KAC.
 17. COORDINATE WITH UTILITY CONTRACTOR FOR SERVICE TO EACH BUILDING/STRUCTURE. PROVIDE ALL COMPONENTS NECESSARY FOR SERVICE. SERVICE VOLTAGES AND CONDUIT ARE INDICATED ON Riser DIAGRAMS. CONTRACTOR TO COORDINATE WITH UTILITY CONTRACTOR.
 18. VERIFY PROPER LIGHT FIXTURE TRIM WITH LIGHTING INSTALLATION. PROVIDE GRID TRIM FOR LAYIN CEILING AND FLANS FOR GYP OR WOOD CEILING.
 19. PROVIDE NUMBER TO ALL AUXILIARY MECHANICAL DEVICES SUCH AS LOUVER, DAMPERS, CONDENSATE PUMPS, THERMOSTATS, ETC... PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED.
- IF NOT NOTED OTHERWISE (20-30-40) 3/4" FOR ALL 20 AMP BRANCH CIRCUITS. PROVIDE ADDITIONAL CONDUCTORS FOR SWITCH LOGS, TRAVELERS, UNSWITCHED CONDUCTORS AS REQUIRED FOR TRAVELERS AND OPERATIONAL SYSTEM.

CHRIS KACENA, AIA
2944 RIDGELOCK COURT
ATLANTA, GA 30360
Phone: 404.860.3869
Email: chriskacena@cornerstone.net



**WINDWOOD HOLLOW PARK
RESTROOM ADDITION**
4865 LAKESIDE DRIVE
DUNWOODY, GA 30360

SHEET TITLE

ELECTRICAL LEGEND AND GEN. NOTES

DRAWN: AB
CHECKED: WFB
SCALE: AS NOTED

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REV.	DATE	REMARKS

SHEET NUMBER: **E-1.0**
OF SHEETS