STANDARD DETAILING SYMBOLS

Symbol labels	Name
PLAN / DETAIL REF. — SIM — 1 / A101 — AREA TO BE ENLARGED — SHEET REF.	CALLOUT
SECTION REF. — SIM — 1 / A101 — SHEET REF.	BUILDING/WALL SECTION
VIEW NAME — VIEW DESIGNATION — 1 View Name Scale: 1/8" = 1'-0" 1/A101 — VIEW SCALE — VIEW REF/SHEET REF WHERE VIEW IS REFERENCED	VIEW TITLE
LEVEL NAME — FIRST FLOOR; LEVEL ELEVATION — 100' - 0"	LEVEL LINE
GRID NUMBER OR LETTER — A	GRID LINE
INDICATES PLAN NORTH; INDICATES TRUE NORTH	NORTH INDICATOR
ROOM NUMBER — Space Name 101	ROOM TAG
REVISION NUMBER — 1	REVISION TAG
	REVISION CLOUD
PER SHEET KEYNOTE NUMBER — 1	KEYNOTE TAG
ELEVATION AT POINT INDICATED — 1' - 0"	SPOT ELEVATION SYMBOL
	CONNECT NEW TO EXISTING
	POINT OF DISCONNECTION

ABBREVIATIONS - ELECTRICAL

THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

A, AMP	AMPERE
A/C	AIR CONDITIONING
AAP	AREA ALARM PANEL
AC	ALTERNATING CURRENT
AC	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT OF 1990
AF	AMPERE FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFRMS	ARC FLASH REDUCTION MAINTENANCE SWITCH/SYSTEM
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AMPERE TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AWS	ABOVE WORK SURFACE
BAS	BUILDING AUTOMATION SYSTEM
BAT	BATTERY
BF	BELOW FLOOR
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BRKR, BKR	BREAKER
BTU	BRITISH THERMAL UNIT
C	CONDUIT
C/B, CB	CIRCUIT BREAKER
CATV	CABLE TELEVISION
CB	CRITICAL BRANCH
CBM	CERTIFIED BALLAST MANUFACTURER
CCTV	CLOSED CIRCUIT TELEVISION
cd	CANDELA
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CL	CENTERLINE
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CNT	CONTACTS
COL	COLUMN
COMB	COMBINATION MOTOR STARTER
COMM	COMMUNICATION
CONV	CONVENIENCE
CP	CIRCULATING PUMP
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CSA	CANADIAN STANDARDS ASSOCIATION
CT	CURRENT TRANSFORMER
CU	COPPER
CUH	CABINET UNIT HEATER
CWP	COLD WATER PUMP
D	DEPTH
DB	DUCTBANK
dB	DECIBEL
DC	DIRECT CURRENT
DD	DUCT DETECTOR
DET	DETECTOR
DIA	DIAMETER
DK	DARK
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DTEN	DETENTION
DWG	DRAWING

ABBREVIATIONS - ELECTRICAL

THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

E	EXISTING
EA	EACH
EB	EQUIPMENT BRANCH
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
ECP	EQUIPMENT CONTROL PANEL
EF	EXHAUST FAN
EGB	EARTH, ELECTRICAL OR EQUIPMENT GROUND BAR
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM, EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE RESISTOR
EQ, EQP	EQUIPMENT
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRICAL WATER HEATER
EXH	EXHAUST
F	FUSE
FA	FIRE ALARM
FA CNT	FIRE ALARM RELAY CONTACTS
FC	FOOTCANDLE
FC, FCU	FAN COIL UNIT
FFB	FROM FLOOR BELOW
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE CONDUIT CONNECTION
FLR	FLOOR
FSD	FUSED
FSS	FUSED SAFETY SWITCH
FTU	FAN TERMINAL UNIT
FURN	FURNITURE
FVNR	FULL VOLTAGE NON-REVERSING
G, GND	GROUND
GALV	GALVANIZED
GEN	GENERATOR
GFCI, GF	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GRC, GRMC	GALVANIZED RIGID METALLIC CONDUIT
GUH	GAS UNIT HEATER
GWAF	GAS WARM AIR FURNACE
GWH	GAS WATER HEATER
HID	HIGH INTENSITY DISCHARGE
HL	HORN LIGHT
HOA	HAND OFF AUTO
HORIZ	HORIZONTAL
HP	HORSE POWER
HT	HEAT
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWP	HOT WATER PUMP
Hz	HERTZ, FREQUENCY
IC	INSULATED CAN
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
INCAN	INCANDESCENT
INT	INTERLOCK
IPC	INTEGRATED POWER CENTER
IS	INTRINSICALLY SAFE
ISO	ISOLATED
JB, JBOX	JUNCTION BOX
K	KELVIN
KCMIL	THOUSAND CIRCULAR MILLS
KV	KILOVOLT
KVA	KILOVOLT-AMPERES

ABBREVIATIONS - ELECTRICAL

THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

KVAR	KILOVOLT-AMPERES REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	LENGTH
LED	LIGHT EMITTING DIODE
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LP	LIGHTING PANEL
LR, LRB	LEGALLY REQUIRED BRANCH
LRA	LOCKED ROTOR AMPS
LS, LSB	LIFE SAFETY BRANCH
LSIG	LONG, SHORT, INSTANTANEOUS & GROUND
LTG	LIGHTING
LTS	LIGHTS
LV	LOW VOLTAGE
LVRC	LOW VOLTAGE RELAY CABINET
MAN	MANUAL
MANUF	MANUFACTURER
MATL	MATERIAL
MC	METAL CLAD CABLE
MCA	MAXIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CURRENT PROTECTION
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MI	MINERAL INSULATED
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTR	MOTOR
MV	MEDIUM VOLTAGE
MW	MEGAWATT
MZU	MULTI-ZONE UNIT
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESC	NATIONAL ELECTRIC SAFETY CODE
NF	NOT FUSED / NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFSS	NON-FUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHTING
NO	NUMBER
NPT	NATIONAL STANDARD PIPE TAPER
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
NTS	NOT TO SCALE
O.L.	OVERALL LENGTH
OCC	OCCUPANCY (SENSOR)
OCPD	OVERCURRENT PROTECTIVE DEVICE
ORIENT	ORIENTATION
P	POLE
PB	PULL BOX
PH, Ø	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PMCP	PIPE MOUNTED CIRCULATING PUMP
PNL	PANEL
POE	POWER OVER ETHERNET
POS	POSITION
PP	POWER PANEL
PRE	POWER ROOF EXHAUSTER
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER

ABBREVIATIONS - ELECTRICAL

THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT.

QTY, QUAN	QUANTITY
R	REMOVE
RAF	RETURN AIR FAN
RCP	REFLECTED CEILING PLAN
RCWY	RACEWAY
REC, RECP	RECEPTACLE
REQ, REQ'D	REQUIRED
RHC	REHEAT COIL
RMC	RIGID METALLIC CONDUIT
RMS	ROOT MEAN SQUARED
RNC	RIGID NON-METALLIC CONDUIT
RP	RECEPTACLE PANEL
RR	REMOVE AND RELOCATE
RTS	REMOTE TEST STATION
RTU	ROOF TOP UNIT
SAF	SUPPLY AIR FAN
SBD, SWBD	SWITCHBOARD
SCC	SHORT CIRCUIT CAPACITY
SDP	SECONDARY DISTRIBUTION PANEL
SGR, SWGR	SWITCHGEAR
SMK	SMOKE
SP	SPARE
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SSU	SWITCH & FUSE UNIT (BUSS)
SSW	SAFETY SWITCH
ST	SHUNT TRIP
STD	STANDARD
STR	MOTOR STARTER
SUH	SUSPENDED UNIT HEATER
SUP	SUPERVISOR SWITCH
SW	SWITCH
SYM	SYMMETRICAL
T	THERMOSTAT
TCC	THEMPERATURE CONTROL CONTRACTOR
TEFC	TOTALLY ENCLOSED FAN COOLED
TEL, TELE	TELEPHONE
TEMP	TEMPORARY
TEMP	TEMPERATURE
TFA	TO FLOOR ABOVE
TGB	TELECOMMUNICATIONS GROUND BAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLTS
VA	VOLT AMPERES
VAR	VOLT AMPERES REACTIVE
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOIP	VOICE OVER INTERNET PROTOCOL
W	WIRE
W	WATT
W	WIDTH
WEF	WALL EXHAUST FAN
WG	WIRE GUARD
WHEU	WALL HUNG EVAPORATOR UNIT
XFR	TRANSFER
XFR, XFMR	TRANSFORMER

STANDARD WALL MOUNTING HEIGHTS

DEVICE OR EQUIPMENT TYPE	MOUNTING HEIGHT (AFF/AFG)	MEASURED TO	NOTES
AV, COAX, DATA & TELECOM	18"	TOP	1
CTRL PNL, COMBINATION BOX ETC.	60"	CENTER	1
DOOR ACCESS & CONTROLS	48"	TOP	1
EMERGENCY LIGHTS	96"	TOP	1, 2
ENCLOSED CIRCUIT BREAKERS	78"	TOP	1, 3
EXIT SIGNS	SEE NOTES	CENTER	1, 4
FA NOTIFICATION DEVICES	84"	BOTTOM	1
FA PULL STATIONS	48"	TOP	1
LIGHT SWITCHES	48"	TOP	1
MOTOR STARTERS	78"	TOP	1, 3
PANELBOARDS	78"	TOP	1, 3
PLUGMOLD AND WIREMOLD	SEE NOTES	TOP	1, 5
RECEPTACLES - NORMAL AREAS	18"	TOP	1
RECEPTACLES - ABOVE COUNTER	SEE NOTES	TOP	1, 5
RECEPTACLES - EXTERIOR AREAS	18"	TOP	1
RECEPTACLES - UNDER COUNTER	18"	TOP	1
RECEPTACLES - UTILITY AREAS	48"	TOP	1, 6
SAFETY SWITCHES	78"	TOP	1, 3
SENSORS - WALL MOUNTED	96"	TOP	1, 2

NOTES:

1. UNLESS NOTED OTHERWISE. WALL MOUNTING HEIGHTS INDICATED ON DRAWINGS SHALL SUPERSEDE STANDARD WALL MOUNTING HEIGHTS LISTED HERE. COORDINATE ALL DEVICE LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION. ADJUST TO MATCH MASONRY COURSES, IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
2. CEILING HEIGHT PERMITTING, OTHERWISE MOUNT 12" BELOW CEILING TO TOP OF BOX.
3. MOUNTING HEIGHT AS MEASURED TO TOP OF ENCLOSURE OR CENTER OF OPERATING HANDLE AT HIGHEST POSITION, WHICHEVER IS HIGHER.
4. CEILING HEIGHT PERMITTING, CENTER EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING. FOR ALL OTHER AREAS AND CEILING HEIGHT PERMITTING, MOUNT 96" AFF TO TOP OF BOX. OTHERWISE, MOUNT 12" BELOW CEILING TO TOP OF BOX.
5. MOUNT 6" ABOVE COUNTERTOP OR BACKSPASH TO TOP OF BOX. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION.
6. UTILITY AREAS INCLUDE, BUT ARE NOT STRICTLY LIMITED TO: ELECTRICAL, INTERSTITIAL, JANITORIAL AND MECHANICAL AREAS/ROOMS.

DRAWING LIST - ELECTRICAL

ELECTRICAL SYMBOLS POWER

Symbol columns: CEILING MTD, NORMAL WALL MTD, EMERGENCY, POST MTD, FLOOR MTD

SYMBOL	DESCRIPTION	SUBSCRIPTS
	SIMPLEX OUTLETS	"AC" = ABOVE COUNTER; "C" = SWITCH CONTROLLED; "GF" = GROUND FAULT; "IG" = ISOLATED GROUND; "UC" = UNDER COUNTER; "USB"= W/ USB PORTS; "WP" = WEATHERPROOF BOX; "WR" = WEATHER RESISTANT
	DUPLEX OUTLETS	
	QUADRAPLEX OUTLETS	
	220V OUTLETS	
	SPECIALTY OUTLETS (NEMA TYPE AS SHOWN)	
J	JUNCTION BOX	SUBSCRIPTS
	COMBINATION AV, DATA & POWER BOX 3/4"C FOR POWER UNO, 1-1/4"C FOR DATA UNO, 1-1/2"C FOR AV UNO	"P" = FURNITURE POWER CONNECTION, 3/4"C UNO; "T" = FURNITURE TELECOM CONNECTION, 1-1/4"C UNO; "AV" = DEDICATED TO AUDIO/VISUAL, 1-1/2"C UNO
PT	POWER/TELECOM POLE	
	PUSH BUTTON	SUBSCRIPTS
e	EQUIPMENT CONNECTION	"ADA" = ADA COMPLIANT DOOR OPERATOR; "EPO" = EMERGENCY POWER OFF; "DO" = DOOR OPERATOR; "HF" = HANDS FREE
	CORD REEL	
	MOTOR	
$ M	MANUAL MOTOR STARTER, FRACTIONAL HORSEPOWER (SEE STARTER SCHEDULE FOR SIZE, ETC.)	
	DISCONNECTING MEANS FURNISHED BY DIV. 23, INSTALLED UNDER DIV. 26	
	SURFACE MOUNTED PLUGMOLD OR WIREMOLD (DEVICE QUANTITIES AND TYPES AS INDICATED)	
HH	POWER/TELECOMMUNICATIONS HANDHOLE	
MH	POWER/TELECOMMUNICATIONS MANHOLE	
ESSENTIAL / NON-ESSENTIAL	POWER DISTRIBUTION PANELS	
	WALL MOUNTED	
	RECESSED	

ELECTRICAL SYMBOLS LIGHTING

Symbol columns: NORMAL, EMERGENCY, LIFE SAFETY

SYMBOL	DESCRIPTION	SUBSCRIPTS
	RECESSED LIGHT FIXTURE - SIZE AND TYPE AS SHOWN	
	PENDANT LIGHT FIXTURE - SIZE AND TYPE AS SHOWN	
	STRIP LIGHT FIXTURE - SIZE AND TYPE AS SHOWN BRACKET INDICATES WALL MOUNTED	
	CAN LIGHT	
	WALL SCONCE	
	SITE LIGHTING - BOLLARD LIGHT	
	SITE LIGHTING - POLE MOUNTED LIGHT HEAD QUANTITY AND ORIENTATION AS SHOWN	
	SITE LIGHTING - IN/ON-GRADE ACCENT/SPOT LIGHT	
	CEILING MOUNTED EXIT SIGN FACES AND CHEVRONS AS SHOWN	
	PENDANT MOUNTED EXIT SIGN FACES AND CHEVRONS AS SHOWN	
	WALL MOUNTED EXIT SIGNS FACES AND CHEVRONS AS SHOWN	
	WALL MOUNTED COMBINATION EXIT SIGN AND EMERGENCY LIGHT - FACES AND CHEVRONS AS SHOWN	
	WALL MOUNTED EMERGENCY LIGHT	
	TRACK LIGHT	
$	SWITCH	SUBSCRIPTS
	OCCUPANCY SENSORS	"a" = SWITCHED CIRCUIT; "2" = 2 POLE; "3" = 3-WAY; "4" = 4-WAY; "D" = DIMMER; "K" = KEY OPERATED; "LV" = LOW VOLTAGE; "OS" = OCCUPANCY SENSOR, DUAL TECHNOLOGY, SINGLE RELAY; "OS2"= OCCUPANCY SENSOR, DUAL TECHNOLOGY, DUAL RELAY; "OSD"= OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIMMER; "P" = PILOT LIGHT; "RO" = RELAY OVERRIDE; "T" = TIMER; "WP" = WEATHERPROOF
	OCCUPANCY SENSORS (LONG RANGE)	
	DAYLIGHT SENSORS	
	PHOTOCELL	
LC-1	LIGHTING CONTROL PANEL, SURFACE - TYPE (CONTACTOR, RELAY, ROOM CONTROLLER, ETC.) AS SHOWN	
RP-1	LIGHTING CONTROL PANEL, RECESSED - TYPE (CONTACTOR, RELAY, ROOM CONTROLLER, ETC.) AS SHOWN	

ELECTRICAL SYMBOLS FIRE ALARM

Symbol columns: CEILING MOUNTED, WALL MOUTNTED

SYMBOL	DESCRIPTION	SUBSCRIPTS
S / S H	SMOKE DETECTOR	"ASD"= AIR SAMPLING DETECTOR; "E" = ELEVATOR; "F" = FIXED; "I" = IONIZATION; "IP" = COMBINATION I/P; "LBR"= LINEAR BEAM, RECEIVER; "LBT"= LINEAR BEAM, TRANSMITTER; "P" = PHOTOELECTRIC; "R" = RATE OF RISE; "RC" = RATE COMPENSATION; "RF" = COMBINATION R/F
S	COMBINATION SMOKE/CARBON MONOXIDE DETECTORS	
	CARBON MONOXIDE DETECTOR	
200°	COMBINATION HEAT/CARBON MONOXIDE DETECTORS	
200°	HEAT DETECTOR	
	DUCT MOUNTED DETECTOR	
P	PULL STATION	
	HORN "XX dB" DECIBEL RATING	
	HORN "XX dB" DECIBEL RATING	
	STROBE "XX cd" CANDELA RATING	
	COMBINATION HORN & STROBE "XX cd" CANDELA RATING	
	COMBINATION HORN & STROBE "XX cd" CANDELA RATING	
	MASS NOTIFICATION STROBE	
	COMBINATION MASS NOTIFICATION SPEAKER & STROBE	
	REMOTE ALARM INDICATOR LIGHT	
FS	FLOW SWITCH	
TS	TAMPER SWITCH	
R	FIRE ALARM RELAY	
M	FIRE ALARM MONITOR MODULE	
DH	MAGNETIC DOOR HOLD OPEN DEVICE	SUBSCRIPTS
	FIRE ALARM BELL	"C" = CEILING MOUNTED; "F" = FLOOR MOUNTED
FACP	FIRE ALARM PANEL SURFACE MOUNTED	DESIGNATIONS: "ELCC" = ELEVATOR COMMAND CENTER; "ELCB" = ELEVATOR CALL BOX; "ASDP" = ASPIRATING SMOKE DETECTOR PANEL; "DACT" = DIGITAL ALARM COMMUNICATIONS TRANSMITTER; "FAAP" = ANNUNCIATOR PANEL; "FACP" = CONTROL PANEL; "FAEP" = BATTERY/EXTENDER PANEL; "FANP" = NAC PANEL; "FATP" = TERMINAL PANEL; "SECP" = SMOKE EVACUATION CONTROL PANEL
AORR	FIRE ALARM PANEL RECESSED	

ELECTRICAL SYMBOLS BONDING & GROUNDING

SYMBOL	DESCRIPTION	SUBSCRIPTS
	GROUND ROD	"CR" = CHEMICAL ROD; "TW" = TEST WELL
—AL—AL—AL—	ALUMINUM GROUND CONDUCTOR #4/0AWG, UNLESS NOTED OTHERWISE	
—CU—CU—CU—	COPPER GROUND CONDUCTOR #4/0AWG, UNLESS NOTED OTHERWISE	
	COMPRESSION/MECHANICAL CONNECTION	
	EXOTHERMIC CONNECTION	
	GROUND BAR	

ELECTRICAL SYMBOLS SECURITY

Symbol columns: CEILING MOUNTED, WALL MOUTNTED

SYMBOL	DESCRIPTION	SUBSCRIPTS
CCTV	SECURITY CAMERA	SUBSCRIPTS
AK	ALARM KEYPAD	"CM" = CORNER MOUNT; "M" = MEGAPIXEL; "PTZ"= POINT/TILT/ZOOM; "V" = V-CELL
CR	CARD READER	
DA	DURESS ALARM	
DS	DOOR SECURITY HARDWARE	HARDWARE LABEL
DR	DOOR RELEASE	"DC" = DOOR CONTACT; "EH" = ELECTRIC HINGE; "EL" = ELECTRIC LOCK; "ES" = ELECTRIC STRIKE; "ML" = MAGNETIC LOCK; "RX" = REQUEST TO EXIT
PA	PANIC ALARM BUTTON	
	DURESS STROBE	
	DURESS HORN/STROBE	
C	MOTION DETECTOR	

ELECTRICAL SYMBOLS AV, DATA & TELECOMMUNICATIONS

Symbol columns: CEILING MTD, WALL MTD, POST MTD, FLOOR MTD

SYMBOL	DESCRIPTION	SUBSCRIPTS
	DATA OUTLET, 1-1/4"C UNO	"4" = OUTLET QTY; "AC" = ABOVE COUNTER; "IP" = INMATE PHONE; "UC" = UNDER COUNTER; "WAP"= WIRELESS ACCESS POINT; "WP" = WEATHERPROOF BOX
	COMBINATION AV, DATA & POWER BOX 3/4"C FOR POWER UNO, 1-1/4"C FOR DATA UNO, 1-1/2"C FOR AV UNO	
J	JUNCTION BOX	SUBSCRIPTS
PT	POWER/TELECOMMUNICATIONS POLE	"P" = FURNITURE POWER CONNECTION, 3/4"C UNO; "T" = FURNITURE TELECOM CONNECTION, 1-1/4"C UNO; "AV" = DEDICATED TO AUDIO/VISUAL, 1-1/2"C UNO
HH	POWER/TELECOMMUNICATIONS HANDHOLE	
MH	POWER/TELECOMMUNICATIONS MANHOLE	

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NORTH CAROLINA PROFESSIONAL SEAL 041410 ENGINEER WILLIAM A. KEMP 6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

E-001

ELECTRICAL NOTES

GENERAL

1. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS REQUIRED FOR THE COMPLETE SYSTEM. THEY SHOULD HOWEVER BE FOLLOWED AS CLOSELY AS POSSIBLE IN THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT. ALL DIMENSIONS SHALL BE CHECKED AT THE BUILDING AND ALL STRUCTURAL AND FINISH CONDITIONS INVESTIGATED. THE CONTRACTOR SHALL ARRANGE HIS WORK TO MEET THESE CONDITIONS AND PROVIDE SUCH EQUIPMENT AND ACCESSORIES AS MAY BE REQUIRED.

2. PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT PLUMB AND PARALLEL WITH BUILDING LINES. STUDY ALL GENERAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS, SHOP DRAWINGS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT, ACCESSORIES, PIPING, FIXTURES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, PIPE STANDS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

3. COORDINATE THE ELECTRICAL WORK WITH ALL OTHER CONTRACTORS BEFORE BEGINNING WORK TO ENSURE THAT THE ELECTRICAL WORK DOES NOT INTERFERE WITH OTHER WORK. LINES WHICH REQUIRE SLOPE SHALL TAKE PRECEDENCE OVER ELECTRICAL WORK. COORDINATE THIS WITH THE PLUMBING, HVAC AND GENERAL CONTRACTORS.

4. NOTIFY THE ENGINEER IN WRITING IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCY OR POINTS OF CONFLICT IN THE DRAWINGS OR THE SPECIFICATIONS. THE ENGINEER WILL CLARIFY SUCH DISCREPANCY OR POINTS OF CONFLICT IN WRITING PRIOR TO THE PROGRESS OF THE WORK BEYOND THE POINT CONCERNED.

5. BEFORE INSTALLING EQUIPMENT, MAKE FIELD MEASUREMENTS TO ENSURE THAT ALL ITEMS OF EQUIPMENT FURNISHED WILL FIT INTO THE SPACE AS SHOWN ON THE DRAWINGS. WHERE EQUIPMENT WILL NOT FIT AS SHOWN ON THE DRAWINGS, PROVIDE A DRAWING TO THE ENGINEER FOR APPROVAL WITH A PROPOSED REVISED ARRANGEMENT BEFORE INSTALLING THE EQUIPMENT.

6. PRIOR TO ROUGH-IN COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT IN THE EVENT OF A CONFLICT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5'-0", SHALL BE MADE IN ANY DIRECTION WITH NO ADDITIONAL COST TO THE OWNER.

7. ALL WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, SWITCHES, TELECOM OUTLETS, SECURITY DEVICES, INTEGRATED COMMUNICATIONS DEVICES, AND FIRE ALARM DEVICES, SHALL BE RECESSED WITHIN WALLS, FURRING, OR CASEWORK, UNLESS NOTED OTHERWISE. USE OF EXPOSED SURFACE MOUNTED CONDUIT OR RACEWAY IS PROHIBITED EXCEPT IN ELECTRICAL AND MECHANICAL SPACES AND LOCATIONS NOTED ON THE DRAWINGS.

8. LOCATION OF ALL FLOOR-MOUNTED DEVICES OUTLETS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN.

9. OUTLET BOXES INCLUDING BUT NOT LIMITED TO LIGHT SWITCHES, RECEPTACLES, TELECOM OUTLETS, SECURITY DEVICES, INTEGRATED COMMUNICATIONS DEVICES, ETC. LOCATED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. WALL PENETRATIONS SHALL BE SEPARATED BY MOUNTING BOXES ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER INSIDE THE WALL.

10. FEEDER CONDUITS, BRANCH CIRCUITS AND CABLE TRAY ROUTING SHALL CONFORM TO THE DETAILS ON DRAWINGS AND SPECIFICATIONS. COORDINATE ROUTING WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.

11. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.

12. THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:

    A. WHERE MULTIWIRE BRANCH CIRCUITS (MORE THAN ONE CIRCUIT PER CONDUIT) ARE INSTALLED, THE CONTRACTOR SHALL INSTALL A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT PER NEC ARTICLE 210.4.

    B. MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15.

    C. THE USE OF MULTIPOLE BREAKERS TO SERVE MULTIWIRE BRANCH CIRCUITS IS NOT ALLOWED.

    D. BRANCH CIRCUIT AND FEEDER CIRCUIT SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.

    E. A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.

13. COORDINATE LOCATION OF ALL RATED WALL ASSEMBLIES WITH THE ARCHITECTURAL DRAWINGS BEFORE AND DURING CONSTRUCTION.

14. DEVICES REQURIED TO ADA ACCESSIBLE SHALL BE INSTALLED PER ANSI A117.1.

ELECTRICAL NOTES (CONT.)

LIGHTING

1. FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN .

2. LIGHT FIXTURE LOCATIONS IN MECHANICAL SPACES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. FIXTURES SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPING. CHAIN OR TRAPEZE-TYPE HANGERS SHALL BE PROVIDED WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO STRUCTURE OR CEILING.

3. LIGHT FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.

POWER

1. FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN .

2. LIGHT FIXTURE LOCATIONS IN MECHANICAL SPACES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. FIXTURES SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPING. CHAIN OR TRAPEZE-TYPE HANGERS SHALL BE PROVIDED WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO STRUCTURE OR CEILING.

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POWER

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TELECOM

1. TELECOM/TELEVISION OUTLET SHALL BE PROVIDED WITH A 3/4" (1" TO FLOOR BOXES) CONDUIT WITH PULL WIRE TO ABOVE THE LAY IN CEILING IN THE CORRIDOR. TURN CONDUIT 12" INTO CEILING CAVITY AT A MINIMUM OF 6" ABOVE THE CEILING. THE END OF THE CONDUIT SHALL BE TERMINATED WITH AN INSULATED THROAT BUSHING.

2. ALL TELECOM CABLES SHALL NOT EXCEED 295 FEET IN LENGTH AND INSTALLED PER MANUFACTURER RECOMMENDATIONS.

3. TELECOM CABLES SHALL BE SUPPORTED WITH J-HOOKS AND D-RINGS. PROVIDE J-HOOKS AT INTERVALS NOT EXCEEDING 5 FEET. PROVIDE J-HOOKS WITHIN 6" FROM CABINETS, BOXES, FITTINGS, OUTLETS, RACKS, FRAMES AND TERMINALS. CABLES SHALL NOT BE SUPPORTED DIRECTLY FROM STRUCTURE. ALL WALL PENETRATIONS SHALL BE METAL SLEEVES AND SIZED AS INDICATED ON THE DRAWINGS. SEAL ALL FIRE RATED ASSEMBLY PENETRATIONS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ASSEMBLIES.

4. ALL FIBER OPTIC AND TELECOM CABLING SHALL BE TESTED AND TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

5. FIBER OPTIC AND TELECOM CABLING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND EIA/TIA STANDARDS.

6. TELECOM CABLING SHALL BE ROUTED PERPENDICULAR OR PARALLEL WITH THE BUILDING STRUCTURE AND CONCEALED IN ALL FINISHED SPACES.

7. PROVIDE DOUBLE GANG BOX FOR ALL TELECOM OUTLETS WITH A SINGLE GANG MUD RING.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 041410 WILLIAM A. KEMP
6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

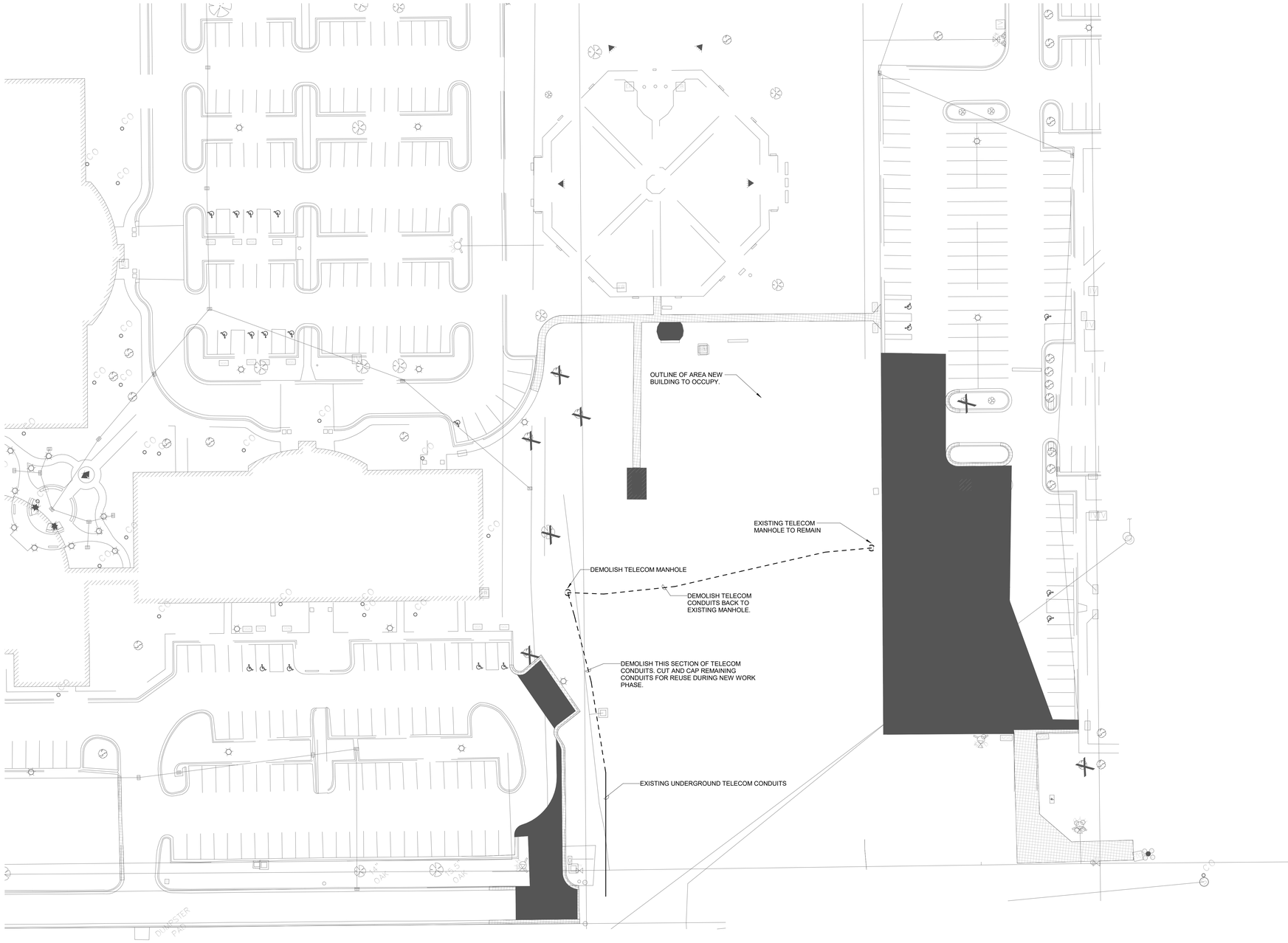
DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

E-002



N 1 ELECTRICAL SITE PLAN - DEMO

Scale: 1" = 30'-0"

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DESIGN TEAM
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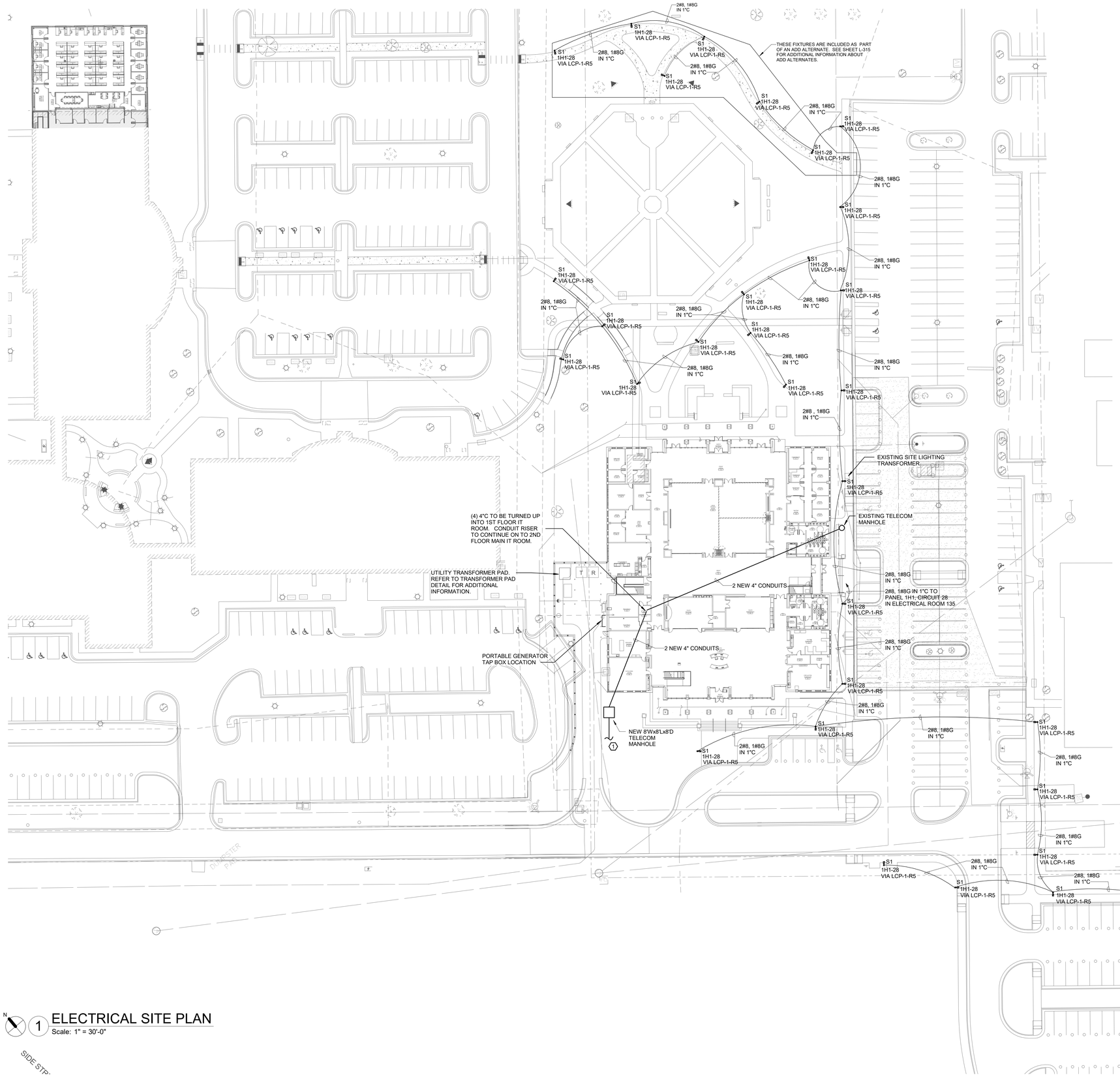
DEMOLITION ELECTRICAL SITE

E-101



N

1 ELECTRICAL SITE PLAN

Scale: 1" = 30'-0"

KEYED NOTES:

1. EXTEND EXISTING TELECOM CONDUITS CUT AND CAPPED IN DEMO PHASE INTO NEW TELECOM MANHOLE.

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6/27/19

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MBW

PROJECT MANAGER
GAM

DESIGN TEAM
WAK, ELP, GM

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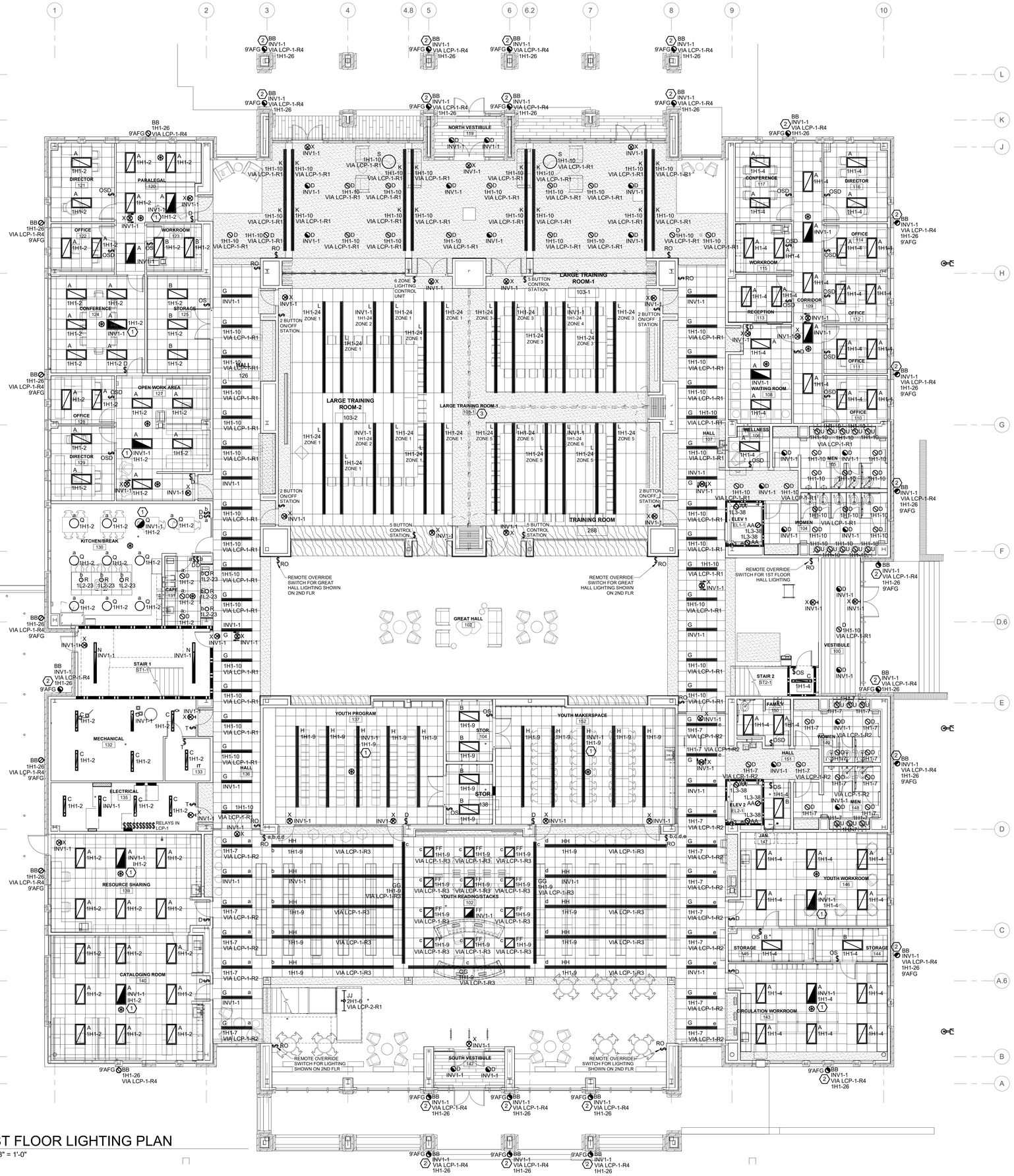
514-8066-00

NEW WORK ELECTRICAL SITE

E-102



1 FIRST FLOOR LIGHTING PLAN

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE AN UN-SWITCHED CONDUCTOR TO ALL EMERGENCY LIGHT FIXTURES OPERATED BY INVERTER.
2. REFER TO LIGHTING FIXTURE SCHEDULE, RELAY SCHEDULES AND RELAY LIGHTING CONTROL DIAGRAM ON SHEET E-502 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1 SWITCHED EMERGENCY LIGHTING FIXTURES IN THIS AREA SHALL BE CONTROLLED VIA EMERGENCY LIGHTING TRANSFER DEVICE. EMERGENCY FIXTURES THAT ARE SWITCHED SHALL BE BROUGHT TO FULL BRIGHTNESS UPON LOSS OF NORMAL POWER. REFER TO EMERGENCY LIGHTING TRANSFER DEVICE DETAIL ON SHEET E-403 FOR ADDITIONAL INFORMATION. CIRCUITS SERVING FIXTURE ARE DENOTED BY A NORMAL POWER CIRCUIT AND INVERTER POWER CIRCUIT.

2 SWITCHED EMERGENCY WALL MOUNTED EXTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED VIA EMERGENCY LIGHTING TRANSFER DEVICE. EMERGENCY FIXTURES THAT ARE SWITCHED SHALL BE BROUGHT TO FULL BRIGHTNESS UPON LOSS OF NORMAL POWER. REFER TO EMERGENCY LIGHTING TRANSFER DEVICE DETAIL ON SHEET E-403 FOR ADDITIONAL INFORMATION. CIRCUITS SERVING FIXTURE ARE DENOTED BY A NORMAL POWER CIRCUIT AND INVERTER POWER CIRCUIT.

3 REFER TO TRAINING ROOM DIMMING SYSTEM ONE-LINE DIAGRAM ON SHEET E-404 FOR ADDITIONAL INFORMATION.

IN PUBLIC SPACES WITHOUT OCCUPANCY SENSORS, LIGHTING SHALL BE CONTROLLED WITH LOW VOLTAGE RELAYS SET TO TURN LIGHTS ON/OFF PER OWNER'S BUILDING OCCPANCY SCHEDULE. LIGHTING CONTROL REALY PANELS ARE LOCATED NEAR ELECTRICAL PANELS. REMOTE OVERRIDE SWITCHES ARE ALSO PLACED IN PUBLIC SPACES FOR BUILDING STAFF TO TURN LIGHTS ON/OFF OVERRIDING BUILDING OCCUPANCY SCHEDULE.

○ RATED WALLS & PARTITIONS

FIRE BARRIER		FIRE & SMOKE BARRIER	
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
3-HOUR		3-HOUR	
FIRE WALL		**FIRE PARTITION**	
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			
SMOKE PARTITION		**SMOKE BARRIER**	
0-HOUR		1-HOUR	

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NORTH CAROLINA PROFESSIONAL SEAL 041410 ENGINEER WILLIAM A. KEMP 6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

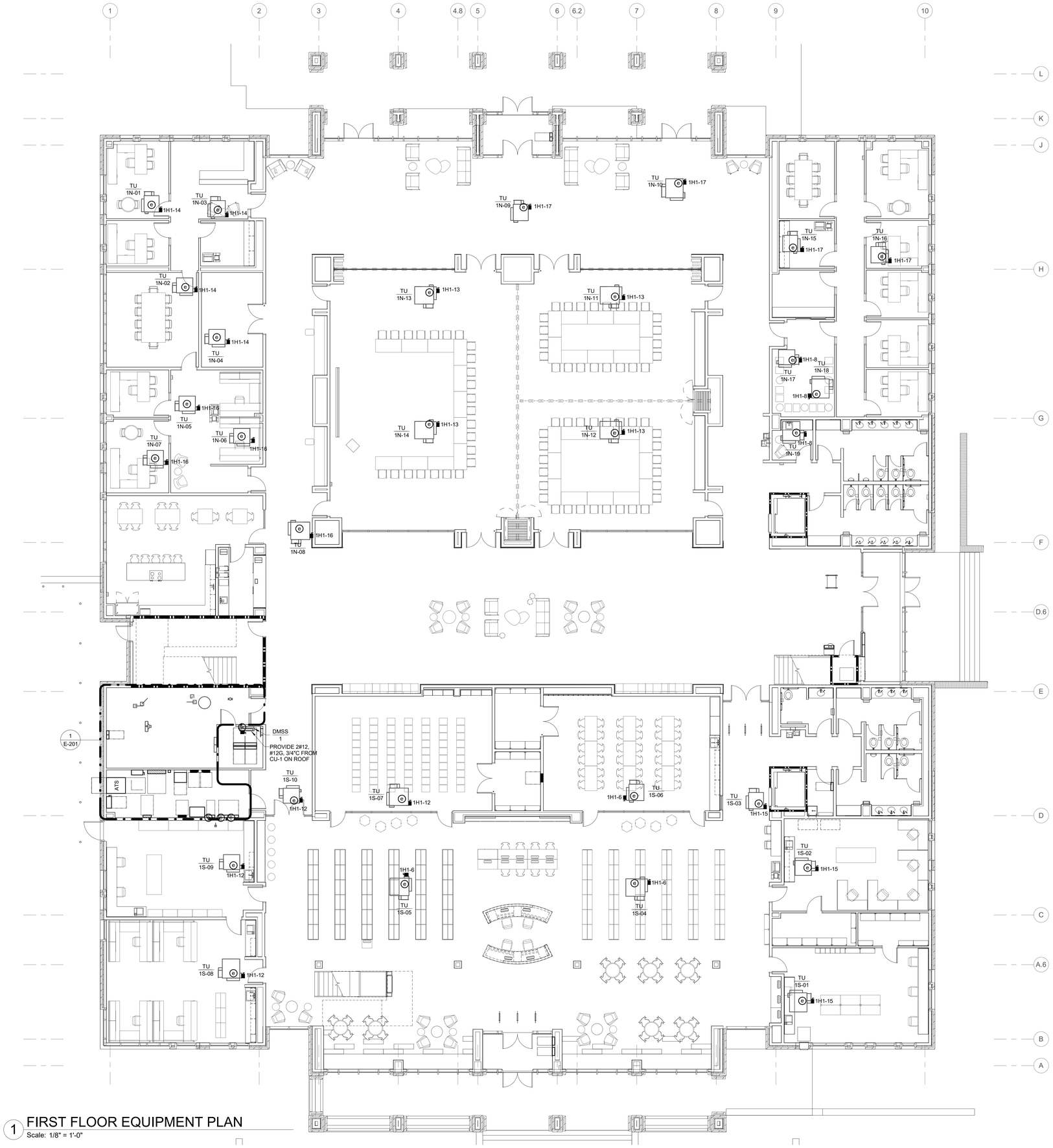
DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

FIRST FLOOR LIGHTING PLAN

E-111



1 FIRST FLOOR EQUIPMENT PLAN

Scale: 1/8" = 1'-0"

N

RATED WALLS & PARTITIONS

	FIRE BARRIER	FIRE & SMOKE BARRIER
1-HOUR		
2-HOUR		
3-HOUR		

	FIRE WALL	FIRE PARTITION
2-HOUR		
3-HOUR		
4-HOUR		
0.5-HOUR		
1-HOUR		

	SMOKE PARTITION	SMOKE BARRIER
0-HOUR		
1-HOUR		

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PROJECT MANAGER
GAM

DESIGN TEAM
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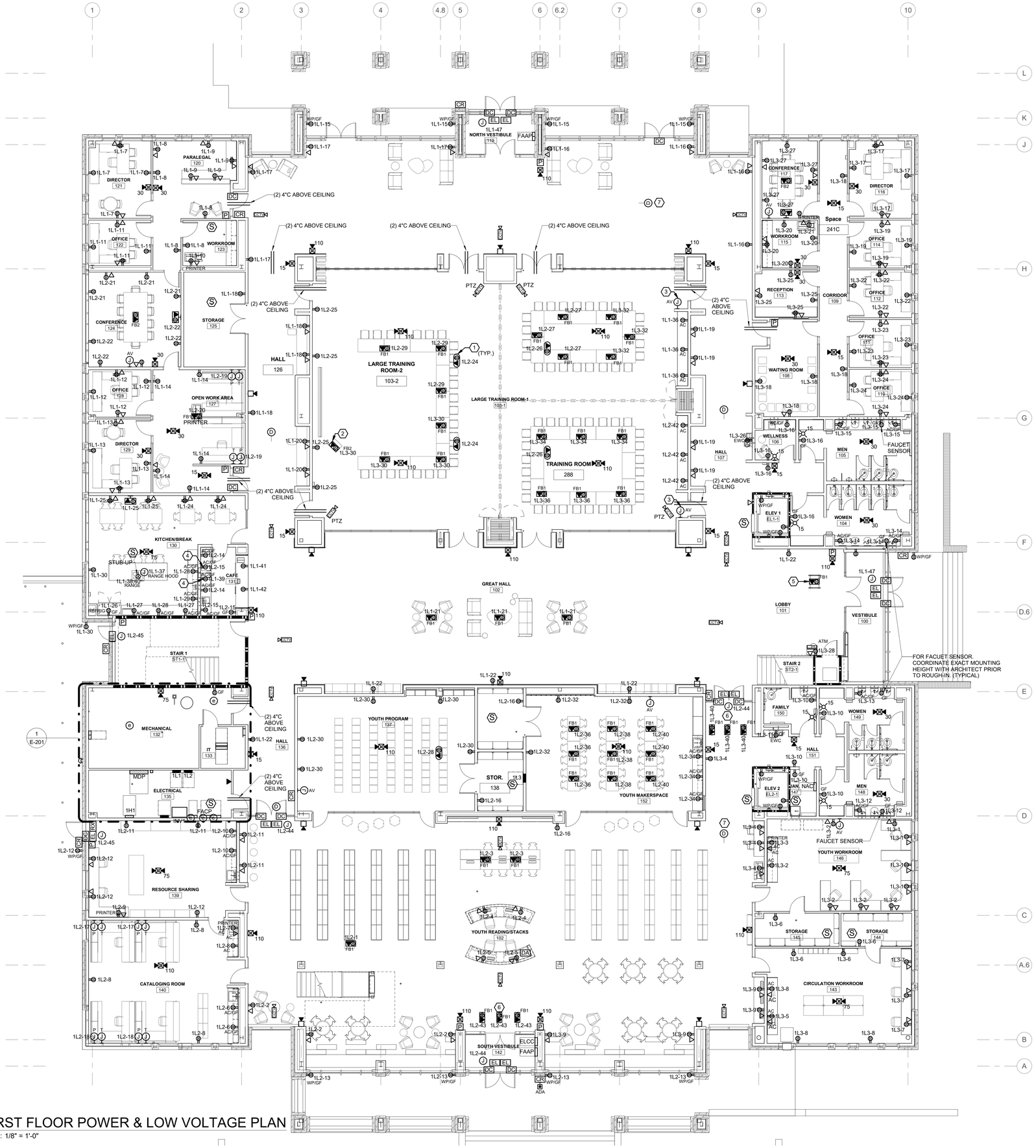
FIRST FLOOR EQUIPMENT PLAN

E-112



1 FIRST FLOOR POWER & LOW VOLTAGE PLAN

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. FLOOR BOX LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
2. FLAT PANEL DISPLAY WALL BOXES SHALL BE MOUNTED AT 60" AFF. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.

KEYED NOTES:

1 RECEPTACLE AND DATA OUTLET FOR PROJECTOR SHALL BE MOUNTED IN THE CEILING TILE. COORDINATE EXACT LOCATION OF PROJECTOR WITH AUDIOVISUAL PLANS.

2 PROVIDE FLOOR BOX. FLOOR BOX SHALL PROVIDE POWER, DATA AND AUDIOVISUAL CONNECTIONS FOR PODIUM. COORDINATE EXACT LOCATION WITH AUDIOVISUAL PLANS.

3 PROVIDE SINGLE GANG JUNCTION BOX ADJACENT TO THE LIGHT SWITCH AT 48" AFF FOR AUDIOVISUAL SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH AUDIOVISUAL PLANS.

4 PROVIDE 2-GANG BOX WITH SINGLE GANG MUD RING AND 1-1/2"C FROM SOURCE PANEL FOR FUTURE LARGER EQUIPMENT CONNECTION.

5 COORDINATE LOCATION OF FLOORBOX WITH OWNER FOR FUTURE METAL DETECTOR INSTALLATION.

6 COORDINATE LOCATIONS OF FLOORBOX WITH OWNER FOR RFID GATE INSTALLATION.

7 PROVIDE A CEILING MOUNTED REMOTE ALARM INDICATOR LIGHT WITH KEYED TEST SWITCH NEAR THE LOCATION OF THE DUCT DETECTOR. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

○ RATED WALLS & PARTITIONS

FIRE BARRIER		FIRE & SMOKE BARRIER	
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
3-HOUR		3-HOUR	
FIRE WALL		**FIRE PARTITION**	
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			
SMOKE PARTITION		**SMOKE BARRIER**	
0-HOUR		1-HOUR	

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NORTH CAROLINA PROFESSIONAL SEAL 041410 ENGINEER WILLIAM A. KEMP
6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

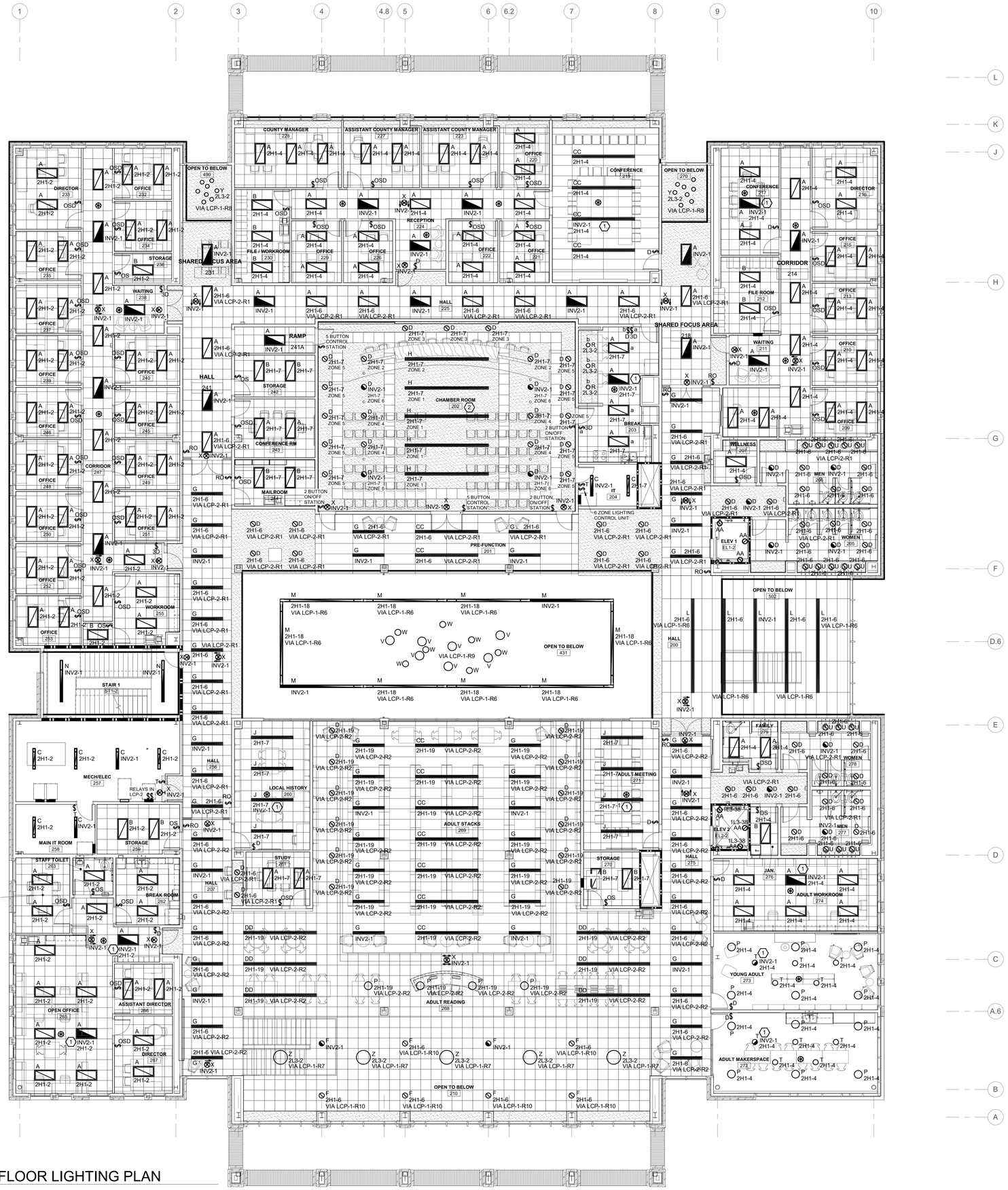
DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

FIRST FLOOR POWER & LOW VOLTAGE PLAN

E-114



1 SECOND FLOOR LIGHTING PLAN

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE AN UN-SWITCHED CONDUCTOR TO ALL EMERGENCY LIGHT FIXTURES OPERATED BY INVERTER.
2. REFER TO LIGHTING FIXTURE SCHEDULE, RELAY SCHEDULES AND RELAY LIGHTING CONTROL DIAGRAM ON SHEET E-502 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1 SWITCHED EMERGENCY LIGHTING FIXTURES IN THIS AREA SHALL BE CONTROLLED VIA EMERGENCY LIGHTING TRANSFER DEVICE. EMERGENCY FIXTURES THAT ARE SWITCHED SHALL BE BROUGHT TO FULL BRIGHTNESS UPON LOSS OF NORMAL POWER. REFER TO EMERGENCY LIGHTING TRANSFER DEVICE DETAIL ON SHEET E-403 FOR ADDITIONAL INFORMATION. CIRCUITS SERVING FIXTURE ARE DENOTED BY A NORMAL POWER CIRCUIT AND INVERTER POWER CIRCUIT.

2 REFER TO CHAMBER ROOM DIMMING SYSTEM ONE-LINE DIAGRAM ON SHEET E-404 FOR ADDITIONAL INFORMATION.

IN PUBLIC SPACES WITHOUT OCCUPANCY SENSORS, LIGHTING SHALL BE CONTROLLED WITH LOW VOLTAGE RELAYS SET TO TURN LIGHTS ON/OFF PER OWNER'S BUILDING OCCPANCY SCHEDULE. LIGHTING CONTROL REALY PANELS ARE LOCATED NEAR ELECTRICAL PANELS. REMOTE OVERRIDE SWITCHES ARE ALSO PLACED IN PUBLIC SPACES FOR BUILDING STAFF TO TURN LIGHTS ON/OFF OVERRIDING BUILDING OCCUPANCY SCHEDULE.

○ RATED WALLS & PARTITIONS

FIRE BARRIER		FIRE & SMOKE BARRIER	
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
3-HOUR		3-HOUR	
FIRE WALL		**FIRE PARTITION**	
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			
SMOKE PARTITION		**SMOKE BARRIER**	
0-HOUR		1-HOUR	

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NORTH CAROLINA PROFESSIONAL SEAL 041410 ENGINEER WILLIAM A. KEMP
6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

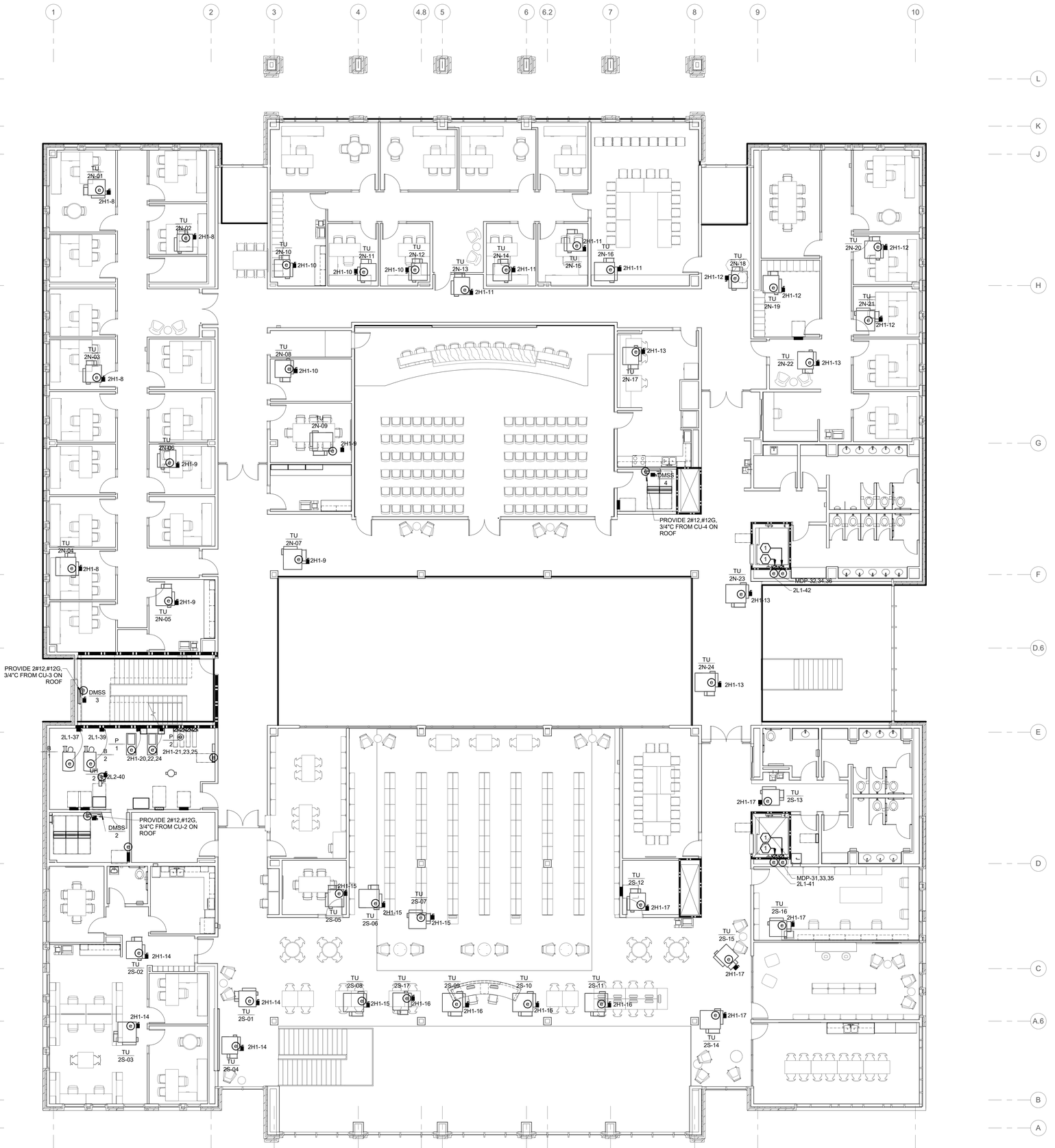
DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

SECOND FLOOR LIGHTING PLAN

E-121



1 SECOND FLOOR EQUIPMENT PLAN

Scale: 1/8" = 1'-0"

KEYED NOTES:

1 PROVIDE ELEVATOR DISCONNECT WITH SHUNT TRIP FOR ELEVATOR CAB LIGHTS/ELEVATOR POWER.

○ RATED WALLS & PARTITIONS

FIRE BARRIER		FIRE & SMOKE BARRIER	
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
3-HOUR		3-HOUR	
FIRE WALL		**FIRE PARTITION**	
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			
SMOKE PARTITION		**SMOKE BARRIER**	
0-HOUR		1-HOUR	

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PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

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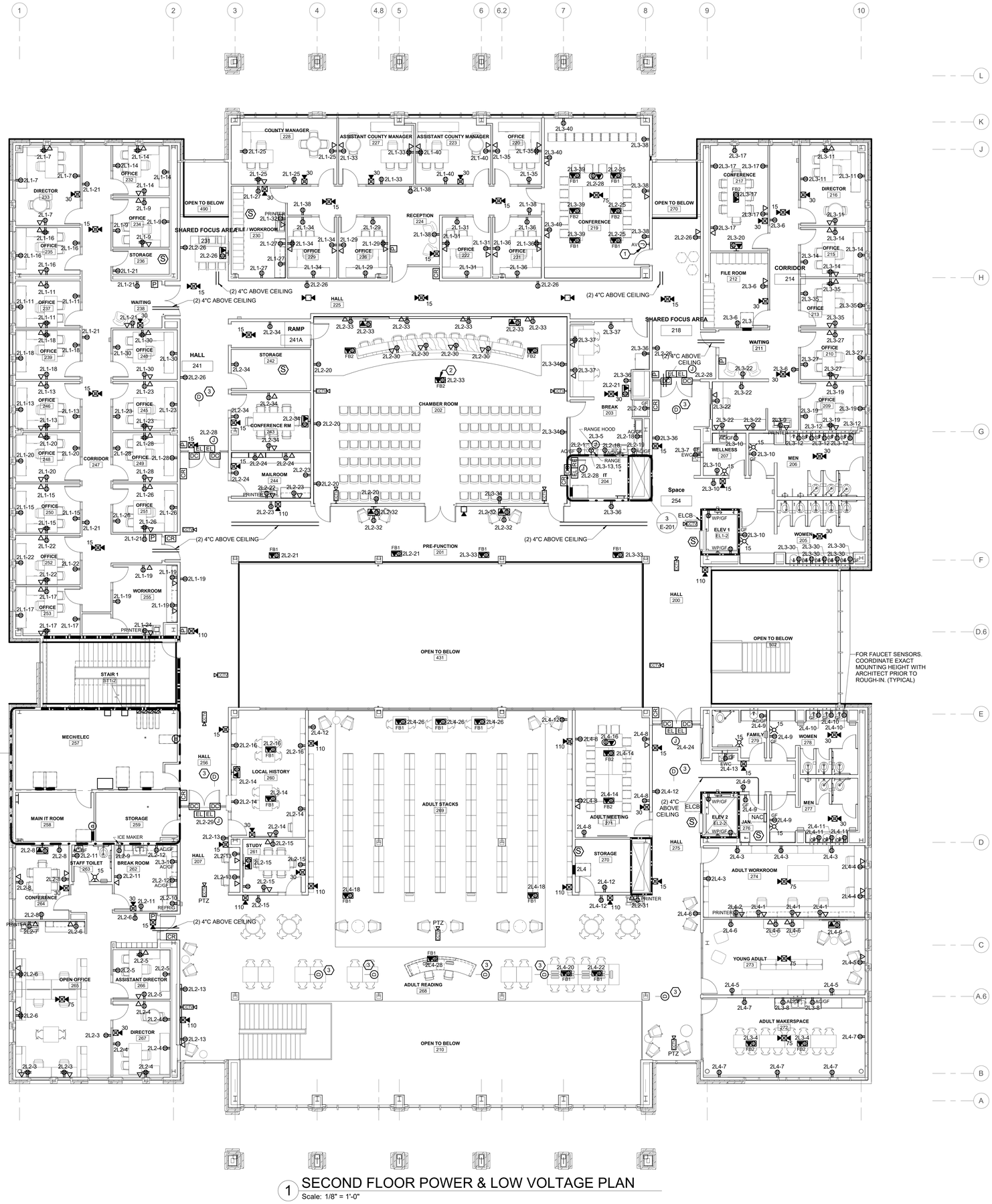
SECOND FLOOR EQUIPMENT PLAN

E-122



1 SECOND FLOOR POWER & LOW VOLTAGE PLAN

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. FLOOR BOX LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
2. FLAT PANEL DISPLAY WALL BOXES SHALL BE MOUNTED AT 60" AFF. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION.

KEYED NOTES:

1 PROVIDE SINGLE GANG JUNCTION BOX ADJACENT TO THE LIGHT SWITCH AT 48" AFF FOR AUDIOVISUAL SYSTEM CONTROLLER. COORDINATE EXACT LOCATION WITH AUDIOVISUAL PLANS.

2 PROVIDE FLOOR BOX. FLOOR BOX SHALL PROVIDE POWER, DATA AND AUDIOVISUAL CONNECTIONS FOR PODIUM. COORDINATE EXACT LOCATION WITH AUDIOVISUAL PLANS.

3 PROVIDE A CEILING MOUNTED REMOTE ALARM INDICATOR LIGHT WITH KEYED TEST SWITCH NEAR THE LOCATION OF THE DUCT DETECTOR. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

○ RATED WALLS & PARTITIONS

FIRE BARRIER		FIRE & SMOKE BARRIER	
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
3-HOUR		3-HOUR	
FIRE WALL		**FIRE PARTITION**	
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			
SMOKE PARTITION		**SMOKE BARRIER**	
0-HOUR		1-HOUR	

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PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

DESIGN TEAM
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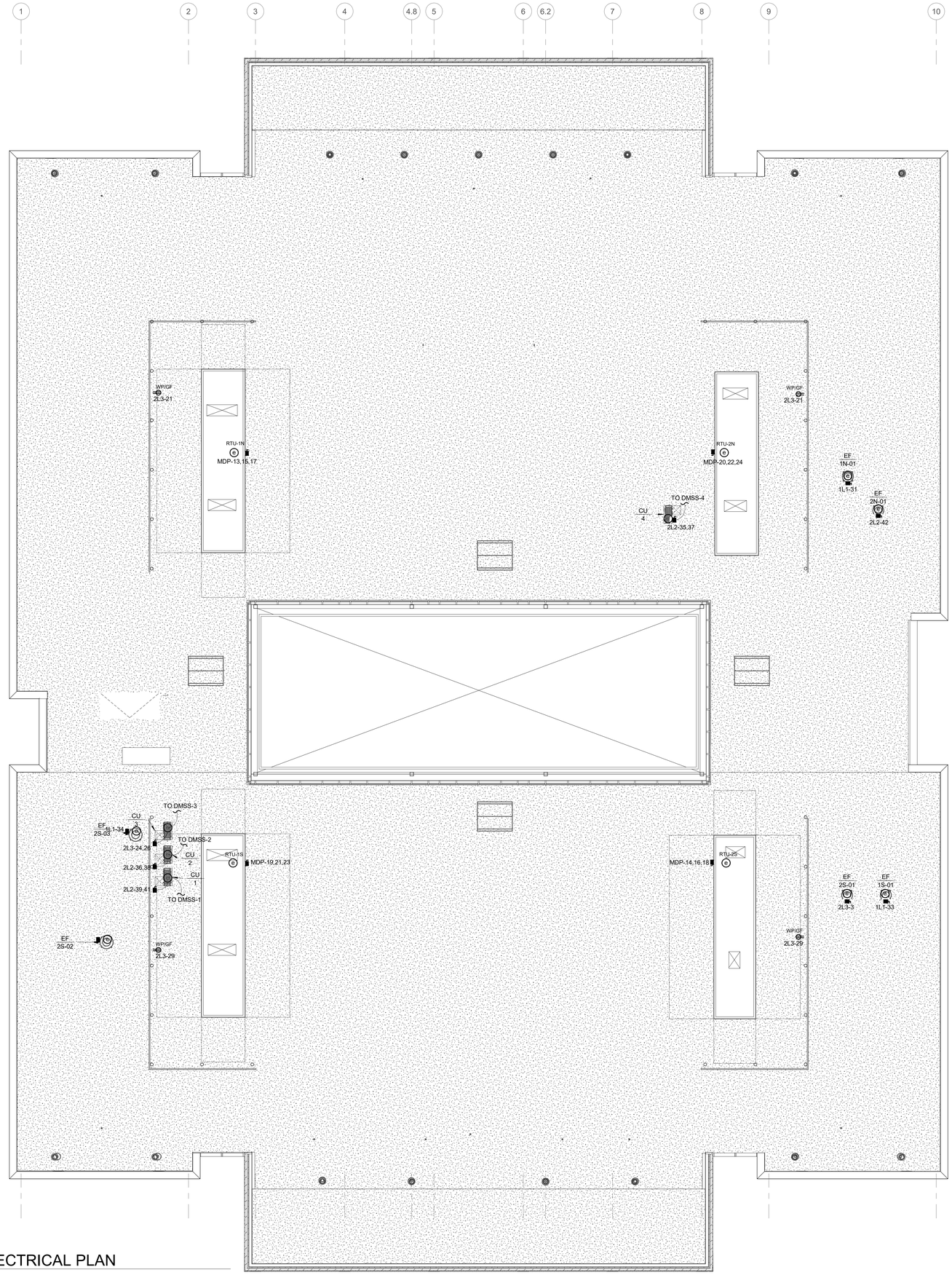
HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

SECOND FLOOR POWER & LOW VOLTAGE PLAN

E-124



N

1 ROOF ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

KEYED NOTES:

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FAX: 919.881.9923
NCBELS # F-0929

NORTH CAROLINA PROFESSIONAL SEAL 041410 ENGINEER WILLIAM A. KEMP
6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

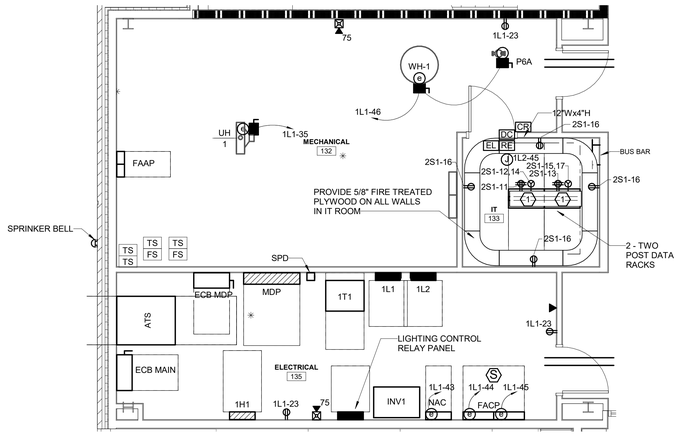
DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

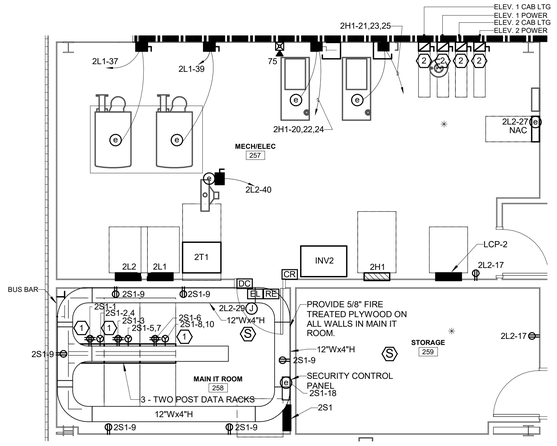
ROOF ELECTRICAL PLAN

E-134



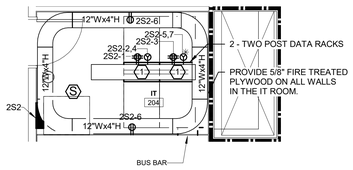
1 FIRST FLOOR ELECTRICAL AND MECHANICAL ROOMS

Scale: 1/4" = 1'-0"



2 SECOND FLOOR ELECTRICAL AND MECHANICAL ROOMS

Scale: 1/4" = 1'-0"



3 SECOND FLOOR IT ROOM

Scale: 1/4" = 1'-0"

KEYED NOTES:

1 PROVIDE A DUPLEX AND 208V (L6-20) RECEPTACLES AT RACK AS INDICATED. ATTACH RECEPTACLES TO LADDER RACK ABOVE.

2 PROVIDE ELEVATOR DISCONNECT WITH SHUNT TRIP FOR ELEVATOR CAB LIGHTS/ELEVATOR POWER.

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LARGE SCALE FLOOR PLANS

E-201

STANDARD FEEDER CHART

SINGLE PHASE, NEUTRAL & EQUIPMENT GROUND		
FEEDER TAG	**AMPACITY (A)**	**COPPER FEEDER SIZE**
20SP	20	1#12, 1#12N, 1#12G IN 3/4"C

THREE PHASE, NEUTRAL & EQUIPMENT GROUND		
FEEDER TAG	**AMPACITY (A)**	**COPPER FEEDER SIZE**
60Y	60	3#6, 1#6N, 1#10G IN 1"C
90Y	85	3#4, 1#4N, 1#8G IN 1-1/4"C
100Y	100	3#3, 1#3N, 1#8G IN 1-1/4"C
110Y	115	3#2, 1#2N, 1#6G IN 1-1/4"C
125Y	130	3#1, 1#1N, 1#6G IN 1-1/2"C
150Y	150	3#1/0, 1#1/0N, 1#6G IN 1-1/2"C
175Y	175	3#2/0, 1#2/0N, 1#6G IN 2"C
200Y	200	3#3/0, 1#3/0N, 1#6G IN 2"C
225Y	230	3#4/0, 1#4/0N, 1#4G IN 2-1/2"C
250Y	255	3-250kcmil, 1-250kcmil N, 1#4G IN 2-1/2"C
300Y	300	3-350kcmil, 1-350kcmil N, 1#4G IN 2-1/2"C
350Y	380	3-500kcmil, 1-500kcmil N, 1#3G IN 4"C
400Y	400	2 SETS OF 3#3/0, 1#3/0N, 1#3G IN 2"C EACH SET
500Y	500	2 SETS OF 3-250kcmil, 1-250kcmil N, 1#2G IN 2-1/2"C EACH SET
600Y	600	2 SETS OF 3-350kcmil, 1-350kcmil N, 1#1G IN 2-1/2"C EACH SET
800Y	800	3 SETS OF 3-300kcmil, 1-300kcmil N, 1#1/0G IN 2-1/2"C EACH SET
1000Y	1000	3 SETS OF 3-400kcmil, 1-400kcmil N, 1#2/0G IN 4"C EACH SET
1200Y	1200	4 SETS OF 3-350kcmil, 1-350kcmil N, 1#3/0G IN 4"C EACH SET
1200Y ALT	1200	3 SETS OF 3-600kcmil, 1-600kcmil N, 1#3/0G IN 4"C EACH SET
1600Y	1600	5 SETS OF 3-400kcmil, 1-400kcmil N, 1#4/0G IN 4"C EACH SET
1600Y ALT	1600	4 SETS OF 3-600kcmil, 1-600kcmil N, 1#4/0G IN 4"C EACH SET
1900Y	1900	5 SETS OF 3-500kcmil, 1-500kcmil N, 1-250kcmil G IN 4"C EACH SET
2000Y	2000	6 SETS OF 3-400kcmil, 1-400kcmil N, 1-250kcmil G IN 4"C EACH SET
2000Y ALT	2000	5 SETS OF 3-600kcmil, 1-600kcmil N, 1-250kcmil G IN 4"C EACH SET
2500Y	2500	7 SETS OF 3-500kcmil, 1-500kcmil N, 1-350kcmil G IN 4"C EACH SET
2500Y ALT	2500	6 SETS OF 3-600kcmil, 1-600kcmil N, 1-350kcmil G IN 4"C EACH SET
3000Y	3000	8 SETS OF 3-500kcmil, 1-500kcmil N, 1-400kcmil G IN 4"C EACH SET
3000Y ALT	3000	7 SETS OF 3-750kcmil, 1-750kcmil N, 1-400kcmil G IN 4"C EACH SET
4000Y	4000	11 SETS OF 3-500kcmil, 1-500kcmil N, 1-500kcmil G IN 4"C EACH SET
4000Y ALT	4000	9 SETS OF 3-750kcmil, 1-750kcmil N, 1-400kcmil G IN 4"C EACH SET

THREE PHASE, NEUTRAL & GROUNDING ELECTRODE		
FEEDER TAG	**AMPACITY (A)**	**COPPER FEEDER SIZE**
100YT	100	3#3, 1#3N, 1#8G IN 1-1/4"C
150YT	150	3#1/0, 1#1/0N, 1#6G IN 1-1/2"C
225YT	230	3#4/0, 1#4/0N, 1#2G IN 2-1/2"C
350YT	380	3-500kcmil, 1-500kcmil N, 1#1/0G IN 4"C
400YT	400	2 SETS OF 3#3/0, 1#3/0N, 1#2G IN 2"C EACH SET
500YT	500	2 SETS OF 3-250kcmil, 1-250kcmil N, 1#1/0G IN 2-1/2"C EACH SET
600YT	600	2 SETS OF 3-350kcmil, 1-350kcmil N, 1#2/0G IN 2-1/2"C EACH SET
800YT	800	3 SETS OF 3-300kcmil, 1-300kcmil N, 1#2/0G IN 2-1/2"C EACH SET

THREE PHASE & EQUIPMENT GROUND (NO NEUTRAL)		
FEEDER TAG	**AMPACITY (A)**	**COPPER FEEDER SIZE**
50Δ	50	3#8, 1#10G IN 3/4"C
60Δ	60	3#6, 1#10G IN 3/4"C
70Δ	65	3#6, 1#8G IN 3/4"C
80Δ	85	3#4, 1#8G IN 1"C
90Δ	85	3#4, 1#8G IN 1"C
100Δ	100	3#3, 1#8G IN 1"C
110Δ	115	3#2, 1#6G IN 1-1/4"C
125Δ	130	3#1, 1#6G IN 1-1/4"C
150Δ	150	3#1/0, 1#6G IN 1-1/2"C
175Δ	175	3#2/0, 1#6G IN 1-1/2"C
200Δ	200	3#3/0, 1#6G IN 2"C
225Δ	230	3#4/0, 1#4G IN 2"C
250Δ	255	3-250kcmil, 1#4G IN 2"C
300Δ	300	3-350kcmil, 1#4G IN 2-1/2"C
350Δ	380	3-500kcmil, 1#3G IN 2-1/2"C
400Δ	400	2 SETS OF 3#3/0, 1#3G IN 2"C EACH SET

THREE PHASE & GROUNDED NEUTRAL (SERVICE)		
FEEDER TAG	**AMPACITY (A)**	**COPPER FEEDER SIZE**
400SE	400	2 SETS OF 3#3/0, 1#3/0GN IN 2"C EACH SET
600SE	600	2 SETS OF 3-350kcmil, 1-350kcmil GN IN 2-1/2"C EACH SET
800SE	800	3 SETS OF 3-300kcmil, 1-300kcmil GN IN 2-1/2"C EACH SET
1000SE	1000	3 SETS OF 3-400kcmil, 1-400kcmil GN IN 4"C EACH SET
1200SE	1200	4 SETS OF 3-350kcmil, 1-350kcmil GN IN 4"C EACH SET
1200SE ALT	1200	3 SETS OF 3-600kcmil, 1-600kcmil GN IN 4"C EACH SET
1600SE	1600	5 SETS OF 3-400kcmil, 1-400kcmil GN IN 4"C EACH SET
1600SE ALT	1600	4 SETS OF 3-600kcmil, 1-600kcmil GN IN 4"C EACH SET
1900SE	1900	5 SETS OF 3-500kcmil, 1-500kcmil GN IN 4"C EACH SET
2000SE	2000	6 SETS OF 3-400kcmil, 1-400kcmil GN IN 4"C EACH SET
2000SE ALT	2000	5 SETS OF 3-600kcmil, 1-600kcmil GN IN 4"C EACH SET
2500SE	2500	7 SETS OF 3-500kcmil, 1-500kcmil GN IN 4"C EACH SET
2500SE ALT	2500	6 SETS OF 3-600kcmil, 1-600kcmil GN IN 4"C EACH SET
3000SE	3000	8 SETS OF 3-500kcmil, 1-500kcmil GN IN 4"C EACH SET
3000SE ALT	3000	7 SETS OF 3-750kcmil, 1-750kcmil GN IN 4"C EACH SET
4000SE	4000	11 SETS OF 3-500kcmil, 1-500kcmil GN IN 4"C EACH SET
4000SE ALT	4000	9 SETS OF 3-750kcmil, 1-750kcmil GN IN 4"C EACH SET

NOTES:

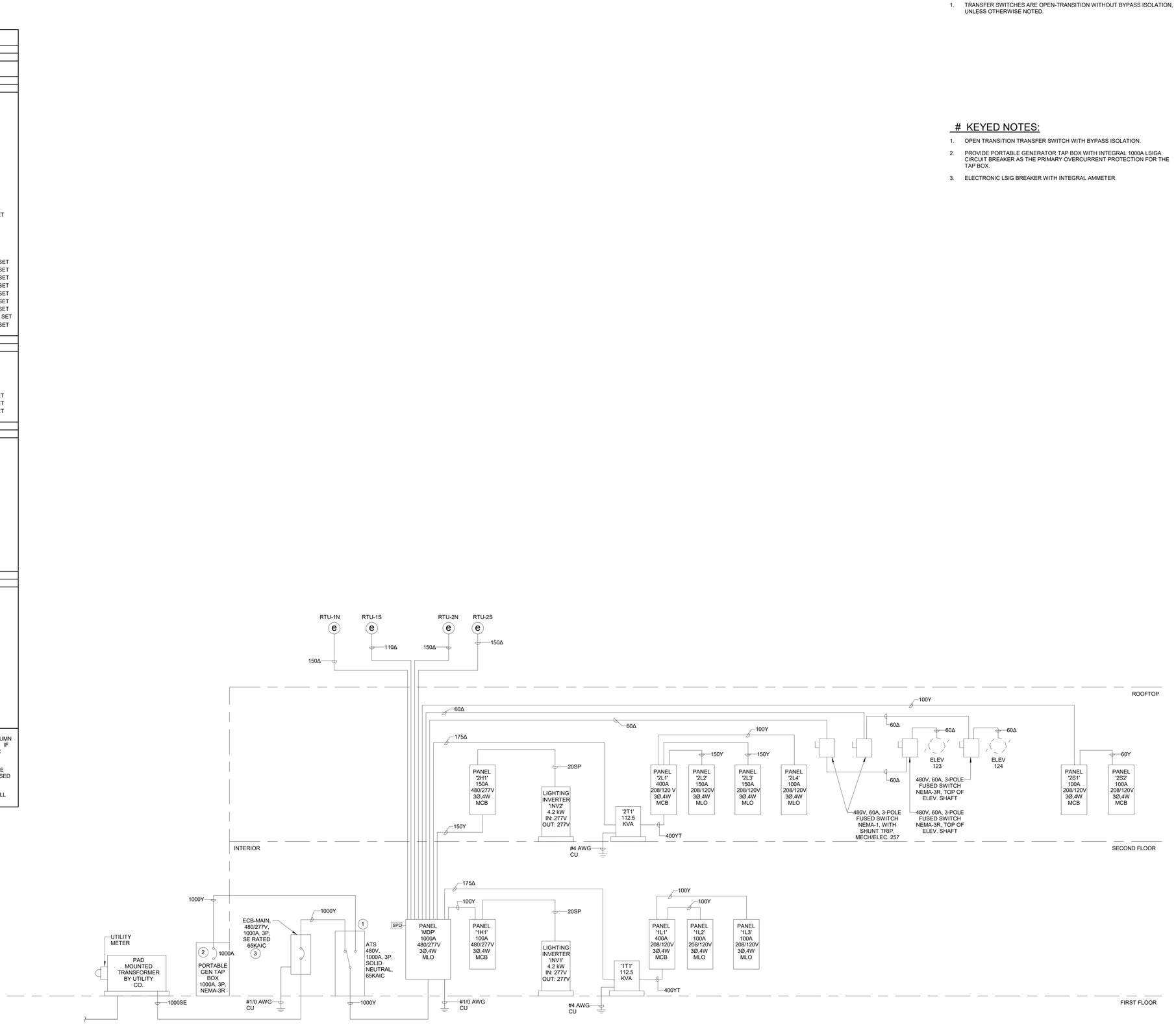
1. AMPACITY LISTED IS BASED ON NEC TABLE 310.15(B)(16) AND THE 75°C RATING COLUMN UNLESS LIMITED BY EQUIPMENT GROUNDING CONDUCTOR PER NEC TABLE 250.122. IF TERMINALS OR SPLICES RATED LESS THAN 75°C ARE ENCOUNTERED CONTRACTOR SHALL RESIZE PHASE CONDUCTOR AND EQUIPMENT GROUND ACCORDINGLY.
2. IF PHASE CONDUCTORS ARE INCREASED ABOVE SIZE LISTED FOR ANY REASON, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE INCREASED PROPORTIONALLY BASED ON CIRCULAR MIL AREA PER NEC 250.122(B).
3. CONDUIT SIZE IS BASED ON THHN/THWN CONDUCTORS IN EMT. CONTRACTOR SHALL ADJUST CONDUIT SIZE PER NEC CHAPTER 9, TABLE 1.

GENERAL NOTES:

1. TRANSFER SWITCHES ARE OPEN-TRANSITION WITHOUT BYPASS ISOLATION, UNLESS OTHERWISE NOTED.

KEYED NOTES:

1. OPEN TRANSITION TRANSFER SWITCH WITH BYPASS ISOLATION.
2. PROVIDE PORTABLE GENERATOR TAP BOX WITH INTEGRAL 1000A LSIGA CIRCUIT BREAKER AS THE PRIMARY OVERCURRENT PROTECTION FOR THE TAP BOX.
3. ELECTRONIC LSIG BREAKER WITH INTEGRAL AMMETER.



1 ELECTRICAL RISER DIAGRAM

Scale: NOT TO SCALE

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6/27/19

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PROJECT MANAGER
GAM

DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

RISER DIAGRAMS

E-301

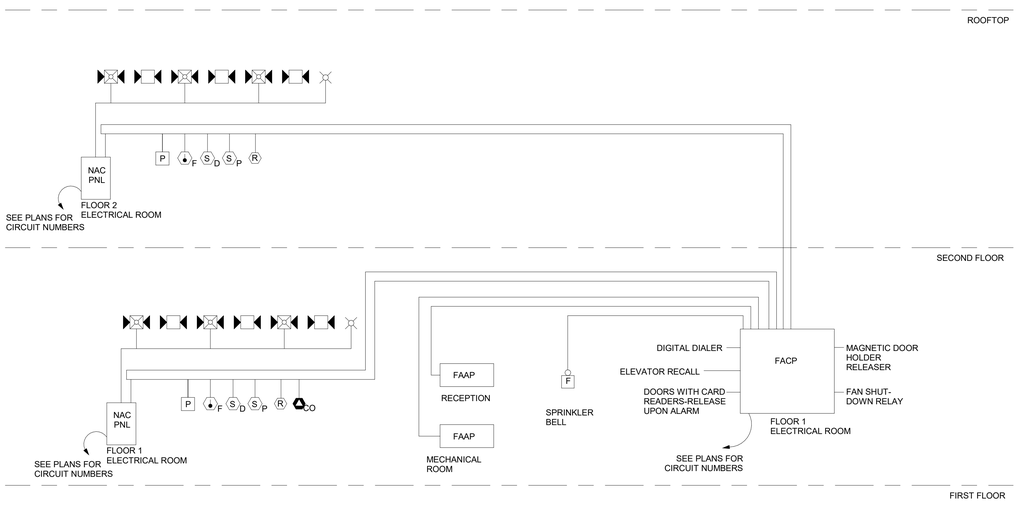
SYSTEM OUTPUTS

SYSTEM INPUTS

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	MANUAL FIRE ALARM BOXES	●	●					●	●		●	●				●								
2	AREA SMOKE & HEAT DETECTORS	●	●					●	●		●	●				●								
3	CARBON MONOXIDE DETECTORS	●	●					●	●		●	●												
4	SMOKE DETECTOR ELEVATOR LOBBY - FIRST FLOOR	●	●					●	●		●	●						●						
5	SMOKE DETECTOR ELEVATOR LOBBY - SECOND FLOOR	●	●					●	●		●	●					●							
6	SMOKE DETECTORS - ELEVATOR HOISTWAY/MACHINE ROOM	●	●					●	●		●	●					●			●				
7	HEAT DETECTORS - ELEVATOR HOISTWAY/MACHINE ROOM	●	●					●	●		●	●							●					
8	DUCT DETECTORS	●	●	●	●			●	●		●	●				●					●			
9	SPRINKLER SYSTEM - WATER FLOW SWITCHES	●	●					●	●	●	●	●	●											
10	SPRINKLER SYSTEM - PRESSURE & TAMPER SWITCHES			●	●						●			●										
11	ELEVATOR SHUNT TRIP SUPERVISORY			●	●						●			●										
12	KITCHEN HOOD SUPPRESSION SYSTEM	●	●					●	●		●	●				●								
13	FIRE ALARM SYSTEM - AC POWER FAILURE					●	●								●									
14	FIRE ALARM SYSTEM - LOW BATTERY					●	●								●									
15	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●								●									
16	OPEN CIRCUIT					●	●								●									
17	GROUND FAULT					●	●								●									
18	AHU SHUTDOWN OVERRIDE SWITCH			●	●						●			●										
19	BI-DIRECTIONAL ANTENNAE SYSTEM SUPERVISORY			●	●						●			●										
20																								

2 FIRE ALARM OPERATION MATRIX

Scale: 12" = 1'-0"



FIRE ALARM SYSTEM RISER DIAGRAM

1. INTENT OF RISER IS TO IDENTIFY POSSIBLE DEVICES AND REQUIRED LOOPS. REFER TO FLOOR PLANS, NOTES, AND SPECIFICATION SECTION 268311 FOR DEVICE QUANTITY AND LOCATION.
2. A SEPARATE LOOP IS REQUIRED FOR EACH GROUP OF AREAS AS NOTED ON RISER. PROVIDE ADDITIONAL LOOPS IN EACH GROUP OF AREAS IF REQUIRED.
3. AN ISOLATION MODULE SHALL BE PROVIDED AT THE FACP FOR EACH LOOP. FOR ADDITIONAL ISOLATION MODULE REQUIREMENTS REFER TO SPECIFICATION SECTION 268311.
4. PROVIDE CONNECTIONS FOR ALL SPRINKLER SYSTEM TAMPER AND FLOW SWITCHES AS SHOWN ON FIRE PROTECTION PLANS AND TO PIV.
5. PROVIDE SURGE SUPPRESSORS FOR ALL FIRE ALARM CABLING THAT LEAVES THE BUILDING.

1 FIRE ALARM RISER DIAGRAM

Scale: 1/8" = 1'-0"

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GAM

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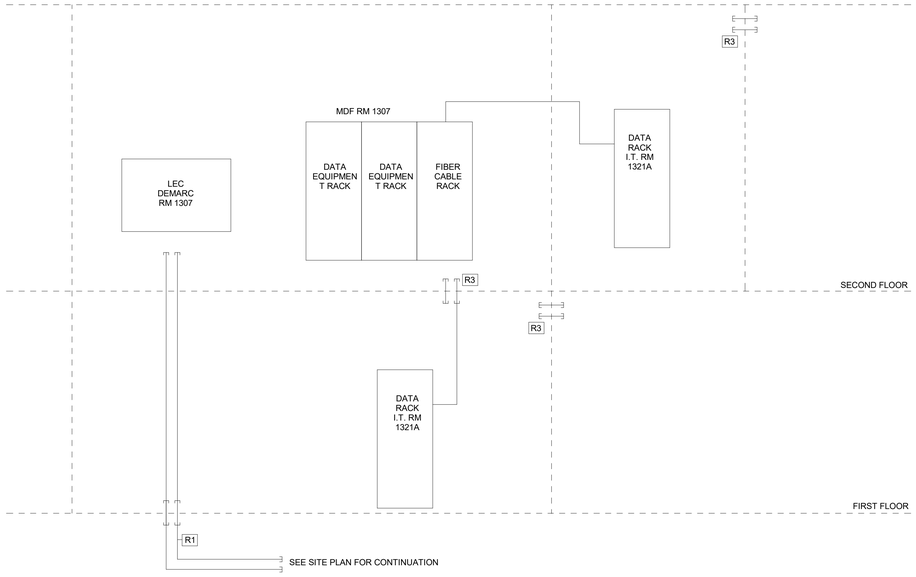
HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

RISER DIAGRAMS

E-302



CABLE TAG	DESCRIPTION
R1	3-4" FOR FIBER SERVICE TO SITE.
R2	1-4"C SLEEVE FOR FIBER
R3	2-4"C SLEEVE BETWEEN FLOORS

1 TELECOMMUNICATIONS RISER DIAGRAM
Scale: N.T.S.

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HARNETT COUNTY GOVERNMENT SERVICES CENTER

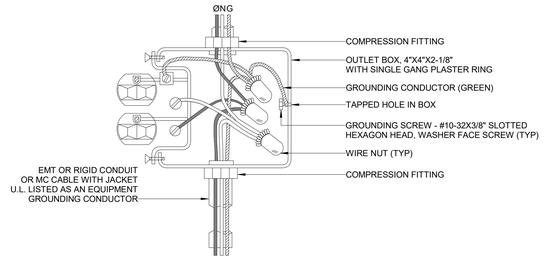
514-8066-00

RISER DIAGRAMS

E-303

NOTE:

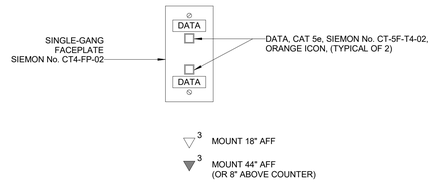
1. ALL CONDUCTORS ARE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.



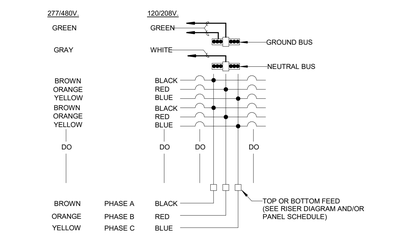
1 CONVENTIONAL RECEPTACLE
Scale: N.T.S.

NOTE:

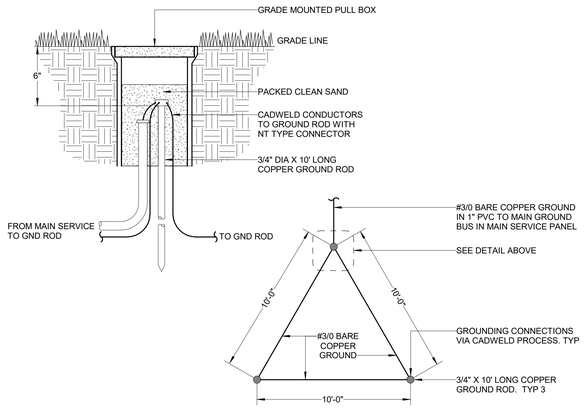
1. SEE SPECIFICATION SECTION 16710 FOR ADDITIONAL REQUIREMENTS.



2 DATA(2) WALL OUTLET
Scale: N.T.S.



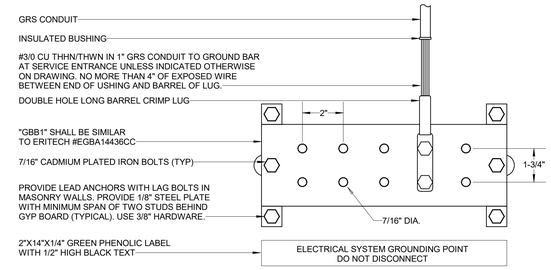
3 TYP. PANEL COLOR CODE DETAIL
Scale: N.T.S.



4 MAIN GROUNDING FIELD
Scale: N.T.S.

NOTES:

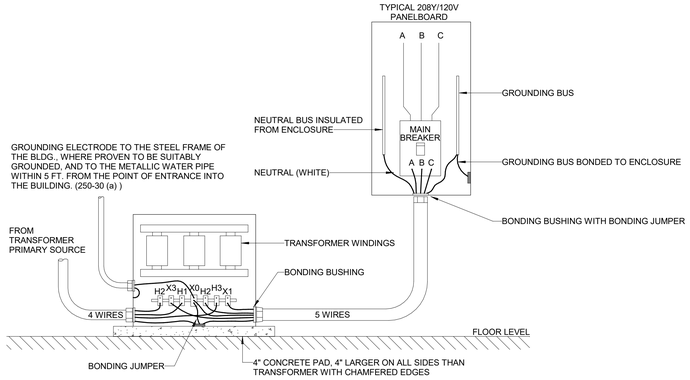
1. MOUNT BUS BAR AND LABEL 6" ABOVE DOOR FRAME, CENTERED UNLESS OTHERWISE INDICATED ON DRAWINGS.



5 ELEC - RAL - BUS BAR ELECTRICAL
Scale: N.T.S.

NOTES:

1. PROVIDE TRANSFORMER BONDING STRAP. IF NOT PROVIDED BY THE TRANSFORMER MANUFACTURER. THIS STRAP SHOULD BE THE SAME SIZE AS THE MAIN BONDING JUMPER.
2. USE A BONDING BUSHING AND JUMPER AT ALL CONDUIT TERMINATIONS.
3. JUMPER SHOULD BE THE SAME SIZE AS THE GROUNDING ELECTRODE CONDUCTOR CONTAINED IN THE CONDUIT.
4. USE A BONDING CLAMP AT THE TERMINATION OF THE GROUNDING ELECTRODE CONDUCTOR TO THE ELECTRODE.

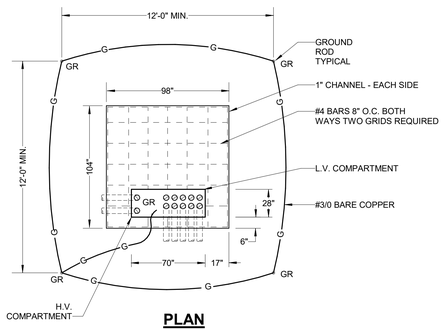


SEE SPECIFICATION SECTION 16461 FOR ADDITIONAL REQUIREMENTS.

6 TRANSFORMER GROUNDING
Scale: N.T.S.

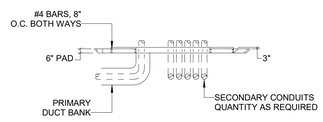
NOTES:

1. CONCRETE TO BE 3,000 LBS. GRADE ALL DIMENSIONS ARE APPROXIMATE.
2. CONTRACTOR SHALL ADJUST DIMENSIONS TO FIT TRANSFORMER ODERED.



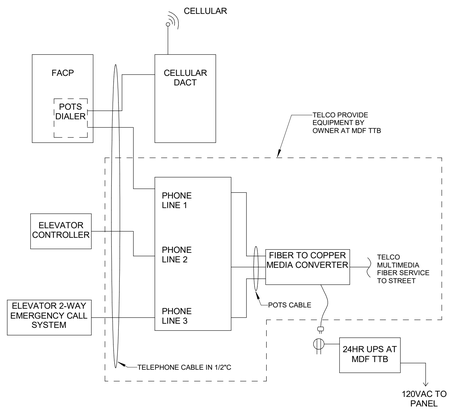
PLAN

VERFIY PAD SIZE WITH DUKE ENERGY PRIOR TO CONSTRUCTION

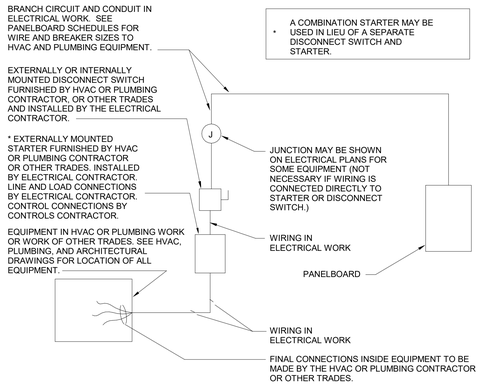


ELEVATION

9 UTILITY TRANSFORMER CONCRETE PAD
Scale: 12" = 1'-0"



7 EMERGENCY COMMUNICATION SYSTEM WIRING DIAGRAM
Scale: N.T.S.



8 ELECTRICAL CONNECTIONS TO MECHANICAL AND PLUMBING EQUIPMENT
Scale: NTS

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Harnett COUNTY NORTH CAROLINA
strong roots • new growth

Dewberry

Dewberry Engineers Inc.
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
FAX: 919.881.9923
NCBELS # F-0929

NORTH CAROLINA PROFESSIONAL SEAL 041410 ENGINEER WILLIAM A. KEMP
6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY
GOVERNMENT SERVICES
CENTER

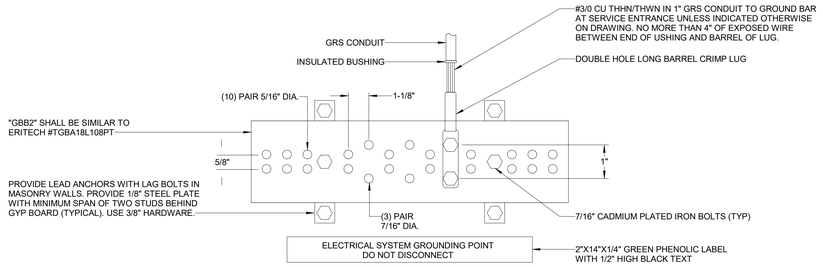
514-8066-00

DETAILS

E-401

NOTES:

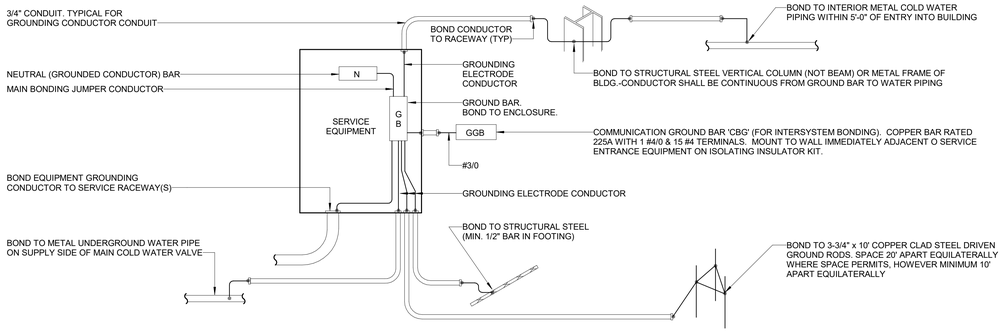
1. MOUNT BUS BAR AND LABEL 6" ABOVE DOOR FRAME, CENTERED UNLESS OTHERWISE INDICATED ON DRAWINGS.



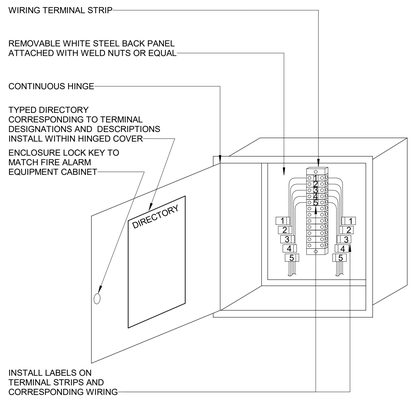
1 BUS BAR TELECOMM
Scale: N.T.S.

NOTES:

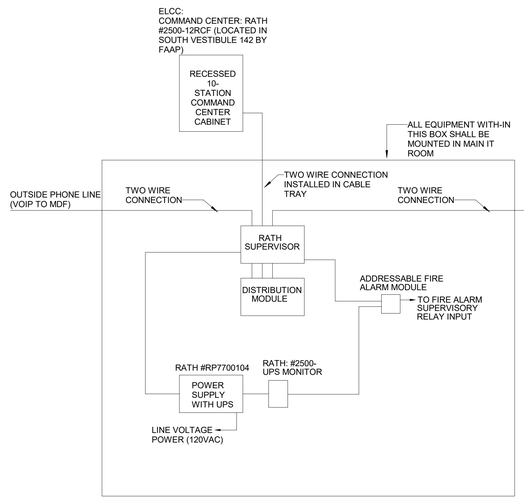
1. GROUNDING CONDUCTORS AND MAIN BONDING JUMPER SHALL BE BARE COPPER UNO AND SHALL BE SIZED AS INDICATED IN ELECTRICAL RISER AND THIS DETAIL.
2. CONNECTIONS TO STRUCTURAL STEEL AND GROUND RODS SHALL BE EXOTHERMICALLY WELDED.
3. GROUNDING ELECTRODE CONDUCTOR CONDUIT SHALL BE BONDED AT EACH END BY MEANS OF A GROUNDING BUSHING.
4. PROVIDE GROUND ROD LENGTH (MINIMUM 10') AND QUANTITY TO ACHIEVE GROUND ROD RESISTANCE OF LESS THAN 5 OHMS AT SERVICE EQUIPMENT.



3 GROUNDING BONDING
Scale: N.T.S.



2 FIRE ALARM TERMINATION CABINET (FATC)
Scale: N.T.S.



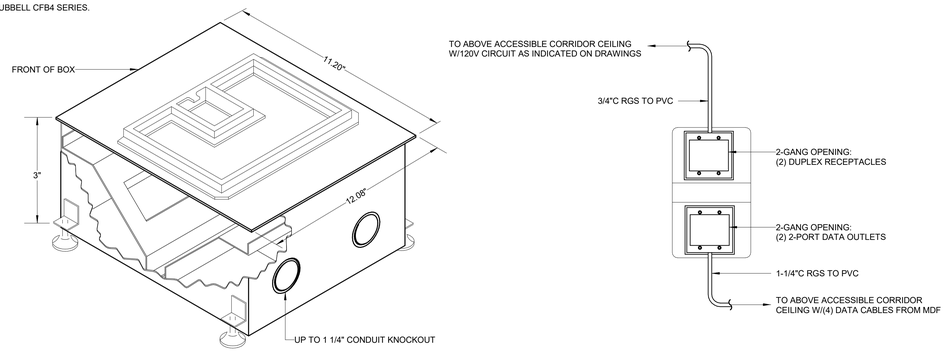
2-WAY COMMUNICATION GENERAL NOTES:

1. PROVIDE ANALOG COMMUNICATION SYSTEM AS INDICATED. BASIS OF DESIGN: 2500 SERIES (COMMAND CENTER) BY RATH, INC. ALL MODEL NUMBERS LISTED ARE FROM RATH, INC.
2. PROVIDE THE EQUIPMENT SHOWN IN THIS DETAIL AND ALL ADDITIONAL EQUIPMENT, RELAYS, WIRING, CONDUIT, TRANSFORMERS, POWER SUPPLIES, ETC. FOR A COMPLETE WORKING SYSTEM.
3. PROVIDE INSTRUCTIONAL (#7049) AND EMERGENCY COMMUNICATION SIGNS (#7087) WITH BRAILLE BESIDE EACH CALL STATION. MOUNTING HEIGHTS: #7049 - 48" TO THE TOP; #7087 - 60" TO THE CENTER.
4. SYSTEM SHALL BE WIRED WITH CABLE PER MANUFACTURER'S RECOMMENDATIONS FOR COMMUNICATION CABLING. INSTALL CABLING IN MINIMUM 3/4"C.
5. CALL BOX SHALL BE MOUNTED 48" AFF TO THE TOP OF THE BOX. COMMAND CENTER SHALL BE MOUNTED 60" AFF TO CENTER OF THE COMMAND CENTER ENCLOSURE.
6. LOCATE DISTRIBUTION MODULE, POWER SUPPLY WITH UPS, PATHWAY MONITOR, AND UPS MONITOR IN MDF 178C.
7. ALL EQUIPMENT AND INSTALLATION CONDITIONS SHALL MEET ADA REQUIREMENTS.
8. SYSTEM SHALL BE SUPERVISED BY THE BUILDING FIRE ALARM SYSTEM, COMMUNICATION OR POWER FAULT SHALL SEND A 'TROUBLE' SIGNAL TO THE FACP VIA THE MONITOR MODULE. PROVIDE FIRE ALARM MONITOR MODULE(S) AS NEEDED.
9. CALL BOX SHALL BE PROGRAMMED TO CALL THE COMMAND CENTER, AND IF CALL IS NOT ANSWERED, IT SHALL THEN CALL THE WCPSS SECURITY/FIRE ALARM MONITORING STATION (A.K.A. "THE TOWER"). COORDINATE SECONDARY PHONE NUMBER WITH WCPSS.
10. A MINIMUM OF THREE SETS OF COMMAND CENTER KEYS SHALL BE PROVIDED. ONE OF THESE SETS SHALL BE IN THE KNOX BOX FOR EMERGENCY PERSONNEL USE.
11. A MAP SHALL BE PROVIDED AT EACH CALL BOX INDICATING THE ROUTE TO THE OTHER AVAILABLE MEANS OF EGRESS FOR THAT FLOOR. MAP SHALL BE PROTECTED BY FRAME WITH POLYCARBONATE OR GLASS COVER.

6 TWO-WAY COMMUNICATION SYSTEM DIAGRAM
Scale: N.T.S.

NOTES:

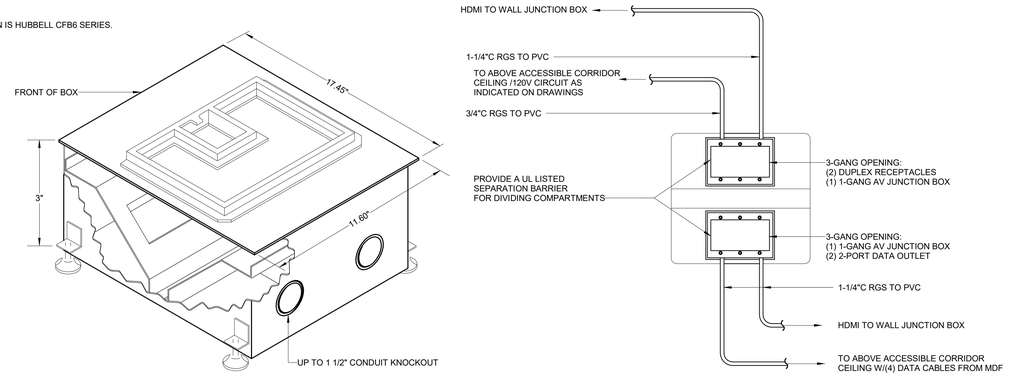
1. BASIS OF DESIGN IS HUBBELL CFB4 SERIES.



4 FLOOR BOX 'FB1'
Scale: N.T.S.

NOTES:

1. BASIS OF DESIGN IS HUBBELL CFB6 SERIES.



5 FLOOR BOX 'FB2'
Scale: N.T.S.

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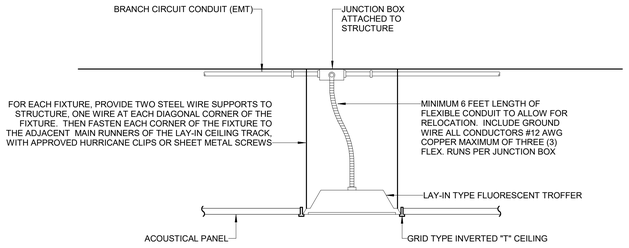
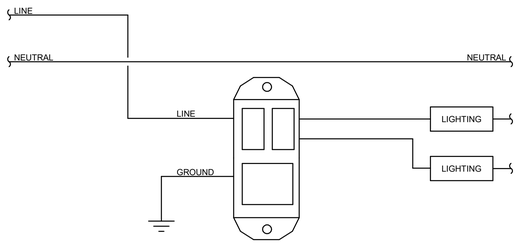
E-402



1 LIGHT FIXTURE MOUNTING

Scale: N.T.S.

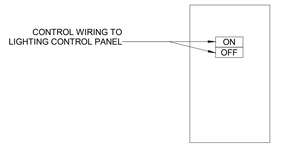


2 OCCUPANCY SENSOR WALL SWITCH

Scale: N.T.S.

NOTES:

1. OVERRIDE SWITCHES SHALL OVERRIDE ALL CORRIDOR LIGHTING AND LOBBY AREAS ON THE SAME FLOOR AS THE OVERRIDE BUTTON.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

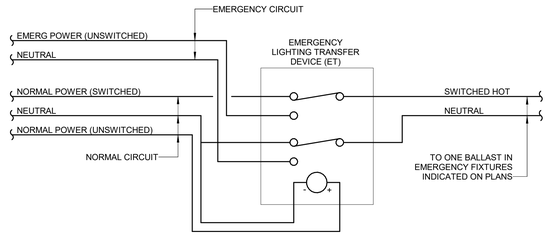


3 LIGHT CONTROL SYSTEM OVERRIDE SWITCH

Scale: N.T.S.

NOTES:

1. INTENT OF EMERGENCY TRANSFER CONTACTOR DETAIL IS TO PROIVDE TRANSFER OF LIGHTING FROM NORMAL SWITCHED POWER SOURCE TO EMERGENCY UNSWITCHED SOURCE UPON LOSS OF NORMAL POWER TO LIGHTING. DIMMABLE LIGHTING DESIGNATED AS EMERGENCY SHALL BE COME ON AT FULL BRIGHTNESS UPON POWER LOSS.
2. CONTACTOR SHALL BE UL1008 LISTED AS EMERGENCY TRANSFER CONTRACTOR.

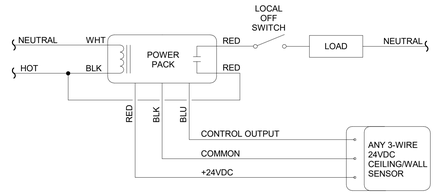


4 LIGHT EMERGENCY TRANSFER DEVICE

Scale: N.T.S.

NOTE:

1. REFER TO PLANS FOR ACTUAL SWITCHING REQUIREMENTS. ADDITIONAL SENSORS MAY BE REQUIRED BY PLANS.

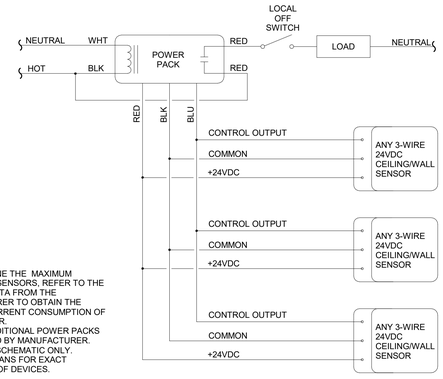


5 LIGHT LV OCCUPANCY SENSOR

Scale: N.T.S.

NOTES:

1. TO DETERMINE THE MAXIMUM NUMBER OF SENSORS, REFER TO THE PRODUCT DATA FROM THE MANUFACTURER TO OBTAIN THE SPECIFIC CURRENT CONSUMPTION OF EACH SENSOR.
2. PROVIDE ADDITIONAL POWER PACKS AS REQUIRED BY MANUFACTURER. DIAGRAM IS SCHEMATIC ONLY.
3. REFER TO PLANS FOR EXACT QUANTITIES OF DEVICES.

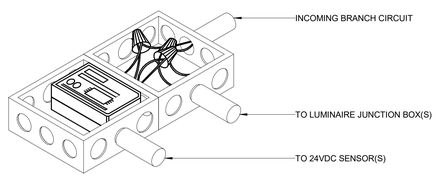


6 LIGHT LV OCCUPANCY SENSOR (MULTIPLE)

Scale: N.T.S.

NOTES:

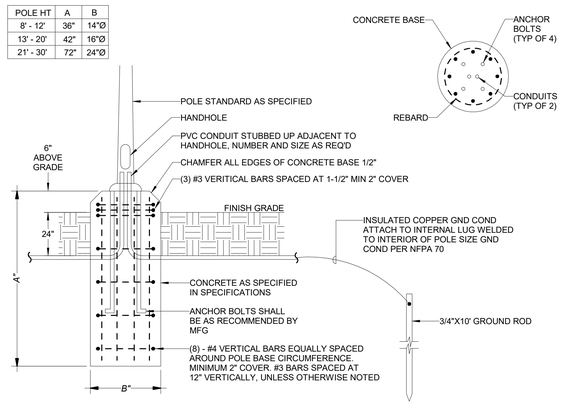
1. MOUNT JUNCTION BOX VERTICALLY TO WALL OR HORIZONTALLY TO BOTTOM OF TRUSS/BEAM.



7 LIGHT SENSOR PACK INSTATION (CONCEALED)

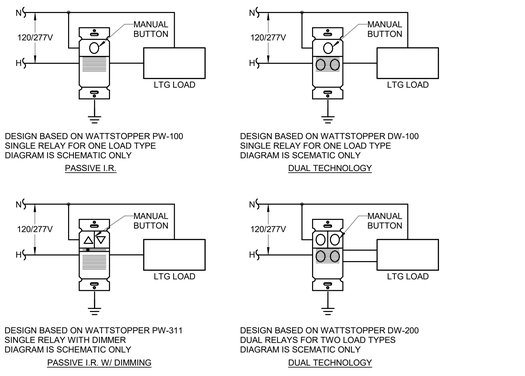
Scale: N.T.S.

POLE HT	A	B
8' - 12'	36"	14"Ø
13' - 20'	42"	16"Ø
21' - 30'	72"	24"Ø



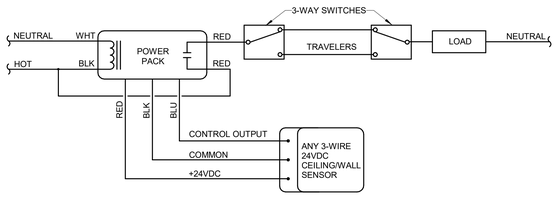
8 LIGHT FIXTURE POLE FOUNDATION

Scale: N.T.S.



9 OCCUPANCY SENSOR LINE VOLTAGE (0-10V DIM)

Scale: N.T.S.



10 OCCUPANCY SENSOR 3 WAY SWITHCING LV

Scale: 12" = 1'-0"

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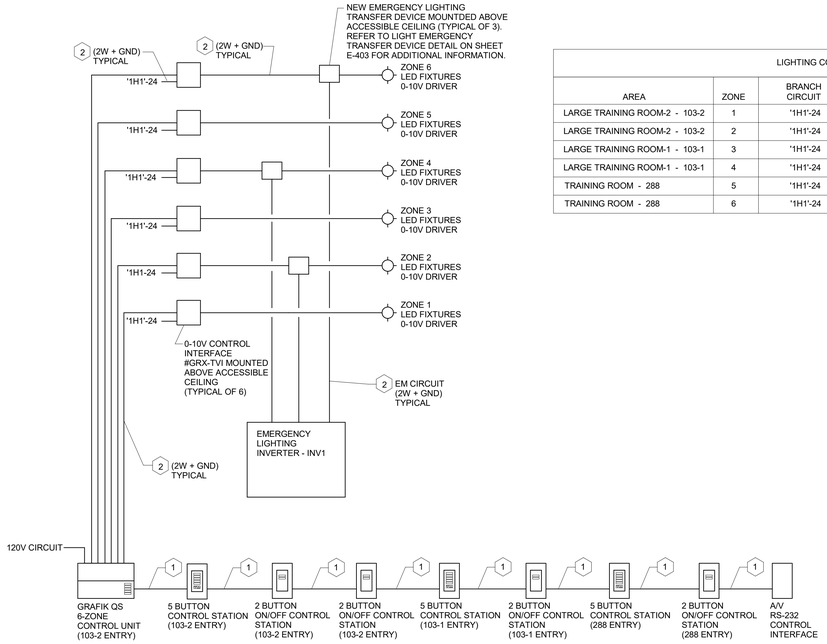
DETAILS

E-403



1 TRAINING ROOM DIMMING SYSTEM ONE-LINE DIAGRAM

Scale: N.T.S.

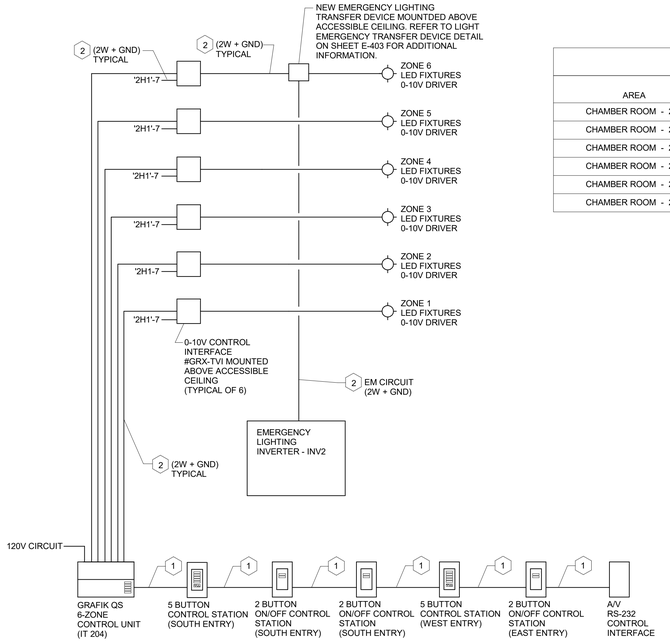
LIGHTING CONTROL SYSTEM SCHEDULE - TRAINING ROOMS						
AREA	ZONE	BRANCH CIRCUIT	LOAD INFORMATION			REMARKS
			DESCRIPTION	TYPE	VA	
LARGE TRAINING ROOM-2 - 103-2	1	'1H1'-24	TYPE 'L' SLOT LIGHT FIXTUES	LED	1140	
LARGE TRAINING ROOM-2 - 103-2	2	'1H1'-24	TYPE 'L' SLOT LIGHT FIXTURE (EM)	LED	228	
LARGE TRAINING ROOM-1 - 103-1	3	'1H1'-24	TYPE 'L' SLOT LIGHT FIXTURES	LED	570	
LARGE TRAINING ROOM-1 - 103-1	4	'1H1'-24	TYPE 'L' SLOT LIGHT FIXTURE (EM)	LED	114	
TRAINING ROOM - 288	5	'1H1'-24	TYPE 'L' SLOT LIGHT FIXTURES	LED	570	
TRAINING ROOM - 288	6	'1H1'-24	TYPE 'L' SLOT LIGHT FIXTURE (EM)	LED	114	

GENERAL NOTES:
1. LOAD SCHEDULE IS TO BE VERIFIED BY THE ELECTRICAL CONTRACTOR UPON COMPLETION OF INSTALLATION.
2. AS BUILT REDLINE MARKUPS OF THE LOAD SCHEDULE MUST BE PROVIDED TO LUTRON BEFORE SYSTEM PROGRAMMING CAN BE COMPLETED.
3. THE ELECTRICAL CONTRACTOR MUST CONFIRM THAT THE FIXTURES SHOWN ARE COMPATIBLE WITH THE TYPE OF SWITCHING OR DIMMING SHOWN ON THIS SCHEDULE. DIMMING A FIXTURE WITH AN INCOMPATIBLE BALLAST/DRIVER MAY CAUSE DAMAGE THAT IS NOT COVERED BY WARRANTY.
4. THE BASIS OF DESIGN AND MODEL NUMBERS ARE LUTRON.

WIRE TYPES:

1 "QS CONTROL LINK" CABLE: (CONNECT WIRES 1,2,3 & 4)
NON-PLENUM PN: LUTRON GRX-CBL-346S
PLENUM PN:LUTRON GRX-PCBL-346S

2 SUITABLE GAUGE WIRE TO MEET LOAD REQUIREMENTS



2 CHAMBER ROOM DIMMING SYSTEM ONE-LINE DIAGRAM

Scale: N.T.S.

LIGHTING CONTROL SYSTEM SCHEDULE - CHAMBER ROOM						
AREA	ZONE	BRANCH CIRCUIT	LOAD INFORMATION			REMARKS
			DESCRIPTION	TYPE	VA	
CHAMBER ROOM - 202	1	'2H1'-7	TYPE 'H' SLOT LIGHT FIXTUES	LED	400	
CHAMBER ROOM - 202	2	'2H1'-7	TYPE 'H' SLOT LIGHT FIXTURE & TYPE 'D' DOWNLIGHTS	LED	174	
CHAMBER ROOM - 202	3	'2H1'-7	TYPE 'D' DOWNLIGHTS	LED	111	
CHAMBER ROOM - 202	4	'2H1'-7	TYPE 'D' DOWNLIGHTS	LED	148	
CHAMBER ROOM - 202	5	'2H1'-7	TYPE 'D' DOWNLIGHTS	LED	370	
CHAMBER ROOM - 202	6	'2H1'-7	TYPE 'D' DOWNLIGHTS (EM)	LED	148	

GENERAL NOTES:
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3. THE ELECTRICAL CONTRACTOR MUST CONFIRM THAT THE FIXTURES SHOWN ARE COMPATIBLE WITH THE TYPE OF SWITCHING OR DIMMING SHOWN ON THIS SCHEDULE. DIMMING A FIXTURE WITH AN INCOMPATIBLE BALLAST/DRIVER MAY CAUSE DAMAGE THAT IS NOT COVERED BY WARRANTY.
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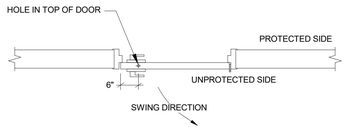
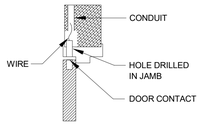
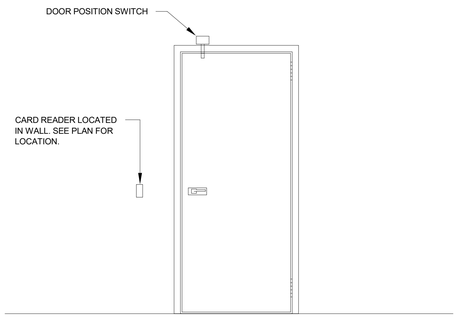


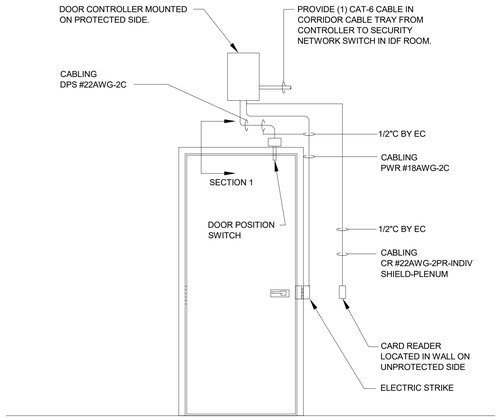
TOP SECTIONAL VIEW



SECTION 1



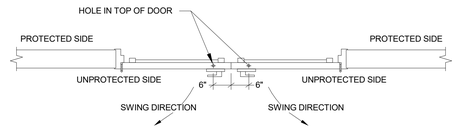
UNPROTECTED SIDE



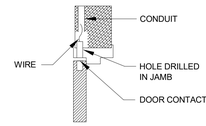
PROTECTED SIDE

SINGLE-DOOR WITH CARD READER, DOOR CONTACTS, AND ELECTRIC STRIKE DETAIL

1 Scale: NTS



TOP SECTIONAL VIEW



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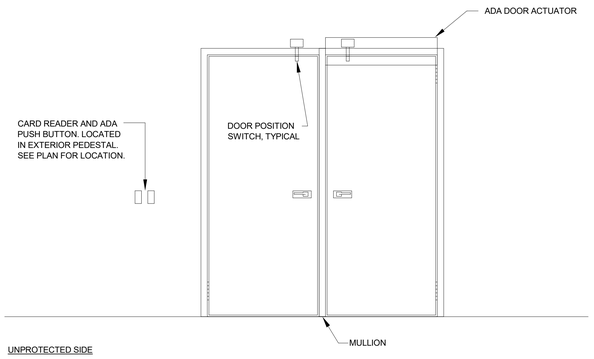
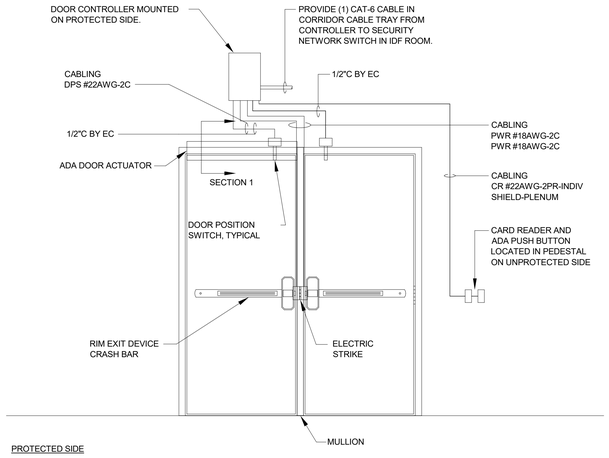


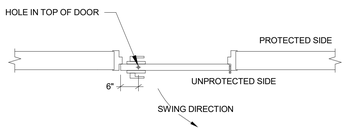
UNPROTECTED SIDE



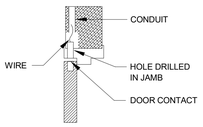
PROTECTED SIDE

DOUBLE-DOOR WITH ADA ACTUATOR, CARD READER, DOOR CONTACTS, ELECTRIFIED PANIC DEVICE, AND ELECTRIC STRIKE DETAIL

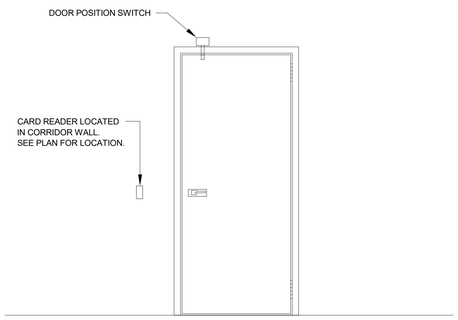
2 Scale: NTS



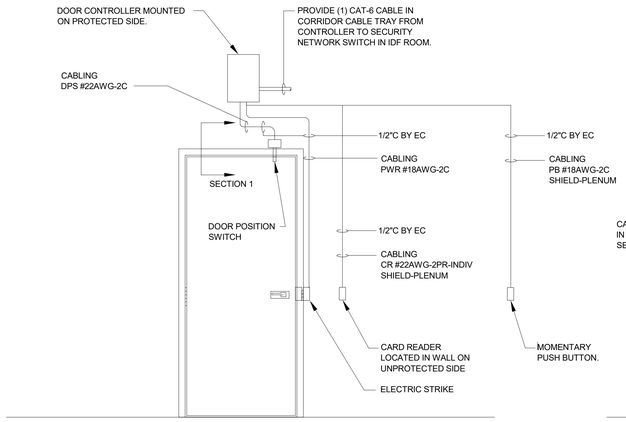
TOP SECTIONAL VIEW



SECTION 1



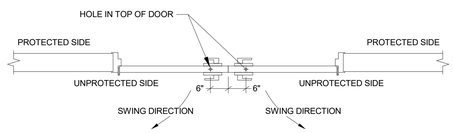
UNPROTECTED SIDE



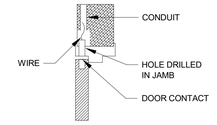
PROTECTED SIDE

SINGLE-DOOR WITH CARD READER, DOOR CONTACTS, MOMENTARY PUSH BUTTON, AND ELECTRIC STRIKE DETAIL

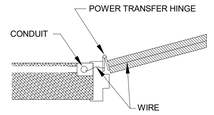
3 Scale: NTS



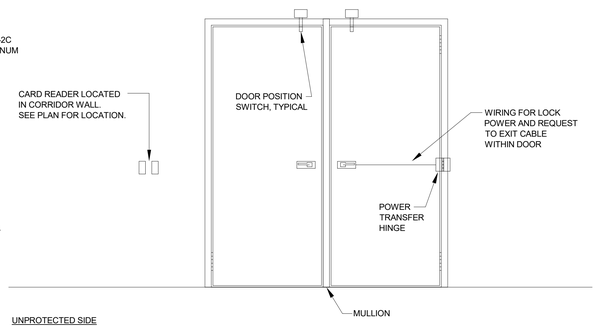
TOP SECTIONAL VIEW



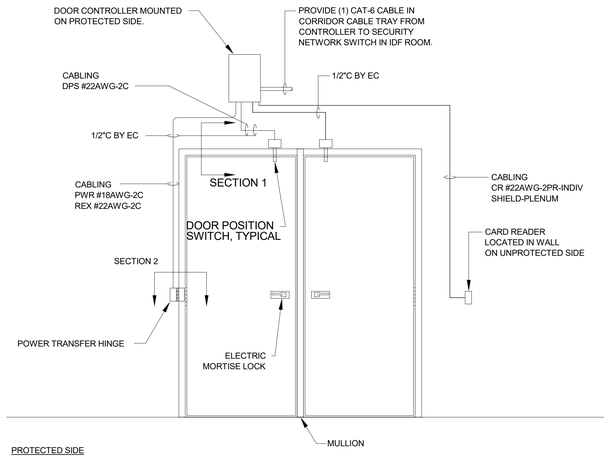
SECTION 1



SECTION 2



UNPROTECTED SIDE



PROTECTED SIDE

DOUBLE-DOOR WITH CARD READER, DOOR CONTACTS, ELECTRIC MORTISE LOCK, AND POWER TRANSFERRED HINGE DETAIL

4 Scale: NTS

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NORTH CAROLINA PROFESSIONAL SEAL 041410 ENGINEER WILLIAM A. KEMP
6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

DETAILS

E-405

PANEL DESIGNATION: MDP

LOCATION:	ELECTRICAL 135	VOLTAGE RATING:	480/277 Wye	MAIN CIRCUIT BREAKER:	MCB
SUPPLY FROM:		# OF PHASES:	3	BREAKER RATING:	1000 A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	1000 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	100%
				MINIMUM KAIC:	42

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		N	P	CB	LOAD SERVED	CKT
1					5673	17427									2
3	1H1	100 A	3				11199	14660				3	150 A	2H1	4
5									9328	13596					6
7					37386	42773									8
9	1T1	175 A	3				40434	41186				3	175 A	2T1	10
11									31995	34147					12
13					31260	33061									14
15	RTU-1N	150 A	3				31260	33061				3	150 A	RTU-2S	16
17									31260	33061					18
19					23861	33061									20
21	RTU-1S	110 A	3				23861	33061				3	150 A	RTU-2N	22
23									23861	33061					24
25					0										26
27	SDP	20 A	3				0								28
29									0						30
31					9423	9423									32
33	ELEV 223	60 A	3				9423	9423				3	60 A	ELEV. 224	34
35									9423	9423					36
37															38
39															40
41															42
				TOTAL LOAD:	243349 VA		247569 VA		229156 VA						
				TOTAL AMPS:	886 A		902 A		827 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	13520 VA	13520 VA	TOTAL LOAD:	720075 VA
Lighting	40408 VA	50510 VA	DEMAND FACTOR:	92.01%
Motor	453997 VA	478793 VA	DEMAND LOAD:	662527 VA
Other	2310 VA	2310 VA	DEMAND AMPS:	797 A
Receptacle	181820 VA	95910 VA		
Power	8900 VA	8900 VA		
HEATING	3120 VA	2184 VA		
Electric Range - 3.5 kW to 8.75 kW	16000 VA	10400 VA		

PANEL DESIGNATION: 1H1

LOCATION:	ELECTRICAL 135	VOLTAGE RATING:	480/277 Wye	MAIN CIRCUIT BREAKER:	NO
SUPPLY FROM:	MDP	# OF PHASES:	3	BREAKER RATING:	N/A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	100 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	100%
				MINIMUM KAIC:	42

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		N	P	CB	LOAD SERVED	CKT
1						2668						1	20 A	Lighting DIRECTOR 121	2
3								1787				1	20 A	Lighting DIRECTOR 116	4
5										936		1	20 A	TU-1S-04, 05, 06	6
7	Lighting	20 A	1		1016	480						1	20 A	TU-1N-17,18,19	8
9	Lighting YOUTH PROGRAM 137	20 A	1				2904	2955				1	20 A	Lighting FRONT PORCH 118	10
11	INVERTER 'INV1'	20 A	1						4026	1036		1	20 A	TU-1S-07, 08, 09, 10	12
13	TU-1N-11,12,13,14	20 A	1		760	490						1	20 A	TU-1N-01, 02, 03, 04	14
15	TU-1S-01, 02 , 03, 10	20 A	1				570	673				1	20 A	TU-1N-05, 06, 07, 08	16
17	TU-1N-09,10,15,16	20 A	1						1050						18
19	Spare	20 A	1	--	0										20
21	Spare	20 A	1	--			0								22
23	Spare	20 A	1	--					0	2280		1	20 A	Lighting LARGE TRAINING ROOM...	24
25	Spare	20 A	1	--	0	259						1	20 A	Lighting	26
27	Spare	20 A	1	--			0	2310				1	20 A	Other	28
29	Spare	20 A	1	--					0	0	--	1	20 A	Spare	30
31	Spare	20 A	1	--	0	0					--	1	20 A	Spare	32
33	Spare	20 A	1	--			0	0			--	1	20 A	Spare	34
35	Spare	20 A	1	--					0	0	--	1	20 A	Spare	36
37	Spare	20 A	1	--	0	0					--	1	20 A	Spare	38
39	Spare	20 A	1	--			0	0			--	1	20 A	Spare	40
41	Spare	20 A	1	--					0	0	--	1	20 A	Spare	42
				TOTAL LOAD:	5673 VA		11199 VA		9328 VA						
				TOTAL AMPS:	20 A		42 A		36 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	17895 VA	22369 VA	TOTAL LOAD:	26200 VA
Motor	5995 VA	6183 VA	DEMAND FACTOR:	117.79%
Other	2310 VA	2310 VA	DEMAND LOAD:	30861 VA
			DEMAND AMPS:	37 A

PANEL DESIGNATION: 1L1

LOCATION:	ELECTRICAL 135	VOLTAGE RATING:	120/208 Wye	MAIN CIRCUIT BREAKER:	YES
SUPPLY FROM:	1T1	# OF PHASES:	3	BREAKER RATING:	225 A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	225 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	100%
				MINIMUM KAIC:	10

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	A		B		C		N	P	CB	LOAD SERVED	CKT
1					16700	8259									2
3	1L2	100 A	3				16570	11740				3	100 A	1L3	4
5									13748	8980					6
7	Receptacle DIRECTOR 121	20 A	1		900	900						1	20 A	Receptacle PARALEGAL 120	8
9	Receptacle PARALEGAL 120	20 A	1				900	1000				1	20 A	Receptacle STORAGE 123	10
11	Receptacle OFFICE 122	20 A	1						900	900		1	20 A	Receptacle OFFICE 128	12
13	Receptacle DIRECTOR 129	20 A	1		900	900						1	20 A	Receptacle OPEN WORK AREA 127	14
15	Receptacle	20 A	1				720	720				1	20 A	Receptacle FRONT PORCH 118	16
17	Receptacle FRONT PORCH 118	20 A	1						720	720		1	20 A	Receptacle STORAGE 125	18
19	Receptacle FRONT PORCH 118	20 A	1		720	360						1	20 A	Receptacle FRONT PORCH 118	20
21	Receptacle GREAT HALL 102	20 A	1				1080	900				1	20 A	Receptacle GREAT HALL 102	22
23	Receptacle ELECTRICAL 135	20 A	1						540	720		1	20 A	Receptacle KITCHEN/BREAK 130	24
25	Receptacle KITCHEN/BREAK 130	20 A	1		1080	1000						1	20 A	Receptacle KITCHEN/BREAK 130	26
27	Receptacle KITCHEN/BREAK 130	20 A	1				360	360				1	20 A	Receptacle KITCHEN/BREAK 130	28
29	Receptacle KITCHEN/BREAK 130	20 A	1						180	360		1	20 A	Receptacle KITCHEN/BREAK 130	30
31	EF-1N-01	20 A	1		187	0						1	20 A	HVAC	32
33	EF-1S-01	20 A	1				187	187				1	20 A	EF-2S-03	34
35	UH-1	20 A	1						187	540		1	20 A	Receptacle LARGE TRAINING...	36
37	RANGE HOOD	20 A	1		480	4000						2	50 A	Electric Range KITCHEN/BREAK 130	38
39	Receptacle CAFE 131	20 A	1				180	4000							40
41	Receptacle CAFE 131	20 A	1	1					1000	1500	1	1	20 A	Receptacle CAFE 131	42
43	NAC PANEL	20 A	1		500	500						1	20 A	FACP	44
45	FACP	20 A	1				500	1030				1	20 A	WH-1/P6A (1/6HP)	46
47	Receptacle NORTH VESTIBULE 119	20 A	1						1000						48
49															50
51															52
53															54
				TOTAL LOAD:	37386 VA		40434 VA		31995 VA						
				TOTAL AMPS:	318 A		344 A		267 A						

CIRCUIT BREAKER NOTES (N):

1. PROVIDE GFI TYPE BREAKER.

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	0 VA	0 VA	TOTAL LOAD:	109815 VA
Lighting	117 VA	146 VA	DEMAND FACTOR:	59.60%
Motor	1758 VA	1891 VA	DEMAND LOAD:	65447 VA
Receptacle	95860 VA	52930 VA	DEMAND AMPS:	182 A
Power	4080 VA	4080 VA		
Electric Range - 3.5 kW to 8.75 kW	8000 VA	6400 VA		

PANEL DESIGNATION: 1L2

LOCATION:	ELECTRICAL 135	VOLTAGE RATING:	120/208 Wye	MAIN CIRCUIT BREAKER:	NO
SUPPLY FROM:	1L1	# OF PHASES:	3	BREAKER RATING:	N/A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	100 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	100%
				MINIMUM KAIC:	10

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	A		B		C		N	P	CB	LOAD SERVED	CKT
1	Receptacle	20 A	1		360	540						1	20 A	Receptacle	2
3	Receptacle	20 A	1				720	360				1	20 A	Receptacle	4
5	Receptacle	20 A	1						360	360		1	20 A	Receptacle CATALOGING ROOM...	6
7	Receptacle CATALOGING ROOM...	20 A	1		1000	720						1	20 A	Receptacle CATALOGING ROOM...	8
9	Receptacle RESOURCE SHARIN...	20 A	1				1000	360				1	20 A	Receptacle RESOURCE SHARIN...	10
11	Receptacle RESOURCE SHARIN...	20 A	1						720	720		1	20 A	Receptacle RESOURCE SHARIN...	12
13	Receptacle	20 A	1		720	360						1	20 A	Receptacle CAFE 131	14
15	Receptacle CAFE 131	20 A	1				540	1360				1	20 A	Receptacle STOR. 104	16
17	Receptacle CATALOGING ROOM...	20 A	1						1000	1000		1	20 A	Receptacle CATALOGING ROOM...	18
19	Receptacle OPEN WORK AREA 127	20 A	1		1000	360						1	20 A	Receptacle OPEN WORK AREA 127	20
21	Receptacle CONFERENCE 124	20 A	1				720	900				1	20 A	Receptacle CONFERENCE 124	22
23	Lighting KITCHEN/BREAK 130	20 A	1						18	1000		1	20 A	Power LARGE TRAINING ROOM-...	24
25	Receptacle LARGE TRAINING...	20 A	1		720	1000						1	20 A	Power LARGE TRAINING ROOM-...	26
27	Receptacle LARGE TRAINING...	20 A	1				1080	500				1	20 A	Power YOUTH PROGRAM 137	28
29	Receptacle LARGE TRAINING...	20 A	1						1080	900		1	20 A	Receptacle YOUTH PROGRAM 137	30
31					5720	540						1	20 A	Receptacle YOUTH MAKERSPAC...	32
33	2S1	20 A	3				5910	540				1	20 A	Receptacle YOUTH MAKERSPAC...	34
35									4970	1080		1	20 A	Receptacle YOUTH MAKERSPAC...	36
37	Spare	20 A	1	--	0	1080						1	20 A	Receptacle YOUTH MAKERSPAC...	38
39	Spare	20 A	1	--			0	1080				1	20 A	Receptacle YOUTH MAKERSPAC...	40
41	Spare	20 A	1	--					0	540		1	20 A	Receptacle TRAINING ROOM 288	42
43	RFID GATES	20 A	1		1080	1500						1	20 A	Receptacle SOUTH VESTIBULE 142	44
45	Receptacle RESOURCE SHARING 139	20 A	1				1500								46
47															48
49															50
51															52
53															54
				TOTAL LOAD:	16700 VA		16570 VA		13748 VA						
				TOTAL AMPS:	143 A		142 A		115 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	18 VA	23 VA	TOTAL LOAD:	47018 VA
Receptacle	44140 VA	27070 VA	DEMAND FACTOR:	63.70%
Power	2860 VA	2860 VA	DEMAND LOAD:	29953 VA
			DEMAND AMPS:	83 A

PANEL DESIGNATION: 1L3

LOCATION:	STOR. 138	VOLTAGE RATING:	120/208 Wye	MAIN CIRCUIT BREAKER:	YES
SUPPLY FROM:	1L1	# OF PHASES:	3	BREAKER RATING:	100 A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	100 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	100%
				MINIMUM KAIC:	10

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	A		B		C		N	P	CB	LOAD SERVED	CKT
1	Receptacle YOUTH WORKROOM...	20 A	1		720	900						1	20 A	Receptacle YOUTH WORKROOM...	2
3	Receptacle YOUTH WORKROOM...	20 A	1				1000	1540				1	20 A	Receptacle	4
5	Receptacle CIRCULATION...	20 A	1						1000	720		1	20 A	Receptacle CIRCULATION...	6
7	Receptacle CIRCULATION...	20 A	1		540	540						1	20 A	Receptacle CIRCULATION...	8
9	Receptacle	20 A	1				720	900				1	20 A	Receptacle WOMEN 149	10
11	Receptacle HALL 151	20 A	1						780	360		1	20 A	Receptacle MEN 148	12
13	Receptacle WOMEN 149	20 A	1		360	540						1	20 A	Receptacle WOMEN 104	14
15	Receptacle MEN 105	20 A	1				540	900				1	20 A	Receptacle WELLNESS 106	16
17	Receptacle DIRECTOR 116	20 A	1						900	900		1	20 A	Receptacle CORRIDOR 109	18
19	Receptacle OFFICE 114	20 A	1		900	900						1	20 A	Receptacle WORKROOM 115	20
21	Receptacle WORKROOM 115	20 A	1				1000	900				1	20 A	Receptacle OFFICE 112	22
23	Receptacle OFFICE 111	20 A	1						900	900		1	20 A	Receptacle OFFICE 110	24
25	Receptacle RECEPTION 113	20 A	1		900	780						1	20 A	Receptacle FRONT PORCH 118	26
27	Receptacle CONFERENCE 117	20 A	1				1080	1000				1	20 A	Receptacle STAIR 2 ST2-1	28
29	Spare	20 A	1	--					0	1440		1	20 A	Receptacle LARGE TRAINING...	30
31	Spare	20 A	1	--	0	1080						1	20 A	Receptacle LARGE TRAINING...	32
33	Spare	20 A	1	--			0	1080				1	20 A	Receptacle TRAINING ROOM 288	34
35	Spare	20 A	1	--					0	1080		1	20 A	Receptacle TRAINING ROOM 288	36
37	Spare	20 A	1	--	0	99						1	20 A	Lighting ELEV 1 EL1-1	38
39	Spare	20 A	1	--			0	1080				1	20 A	RFID GATES	40
41	Spare	20 A	1	--					0	0	--	1	20 A	Spare	42
				TOTAL LOAD:	8259 VA		11740 VA		8980 VA						
				TOTAL AMPS:	69 A		99 A		76 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	99 VA	124 VA	TOTAL LOAD:	28979 VA
Receptacle	28520 VA	19260 VA	DEMAND FACTOR:	68.13%
Power	360 VA	360 VA	DEMAND LOAD:	19744 VA
			DEMAND AMPS:	55 A

PANEL DESIGNATION: 2H1

LOCATION:	MECH/ELEC 257	VOLTAGE RATING:	480/277 Wye	MAIN CIRCUIT BREAKER:	YES
SUPPLY FROM:	MDP	# OF PHASES:	3	BREAKER RATING:	150 A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	225 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	
				MINIMUM KAIC:	35

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	A		B		C		N	P	CB	LOAD SERVED	CKT
1						2965						1	20 A	Lighting DIRECTOR 233	2
3								3492				1	20 A	Lighting COUNTY MANAGER 228	4
5										4156		1	20 A	Lighting SHARED FOCUS AREA...	6
7	Lighting BREAK 203	20 A	1		2162	580						1	20 A	TU-2N-01, 02, 03, 04	8
9	TU-2N-05,06,07,09	20 A	1				1692	490				1	20 A	TU-2N-08,10,11,12	10
11	TU-2N-13,14,15,16	20 A	1						580	580		1	20 A	TU-2N-18,19,20,21	12
13	TU-2N-17,22,23,24	20 A	1		1409	490						1	20 A	TU-2S-01,02,03,04	14
15	TU-2S-05,06,07,08	20 A	1				1226	3547				1	20 A	TU-2S-09,10,11,17	16
17	TU-2S-12,13,14,15,16	25 A	1						1699	2368		1	20 A	Lighting OPEN TO BELOW 431	18
19	Lighting ADULT STACKS 269	20 A	1		2062	2107									20
21							2107	2107				3	20 A	PUMP P-1	22
23	PUMP P-2	20 A	3						2107	2107					24
25					2107	3546						1	20 A	INVERTER 'INV2'	26
27	Spare	20 A	1	--			0	0			--	1	20 A	Spare	28
29	Spare	20 A	1	--					0	0	--	1	20 A	Spare	30
31	Spare	20 A	1	--	0	0					--	1	20 A	Spare	32
33	Spare	20 A	1	--			0	0			--	1	20 A	Spare	34
35	Spare	20 A	1	--					0	0	--	1	20 A	Spare	36
37	Spare	20 A	1	--	0	0					--	1	20 A	Spare	38
39	Spare	20 A	1	--			0	0			--	1	20 A	Spare	40
41	Spare	20 A	1	--					0	0	--	1	20 A	Spare	42
				TOTAL LOAD:	17427 VA		14660 VA		13596 VA						
				TOTAL AMPS:	64 A		54 A		49 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	0 VA	0 VA	TOTAL LOAD:	45684 VA
Lighting	20751 VA	25939 VA	DEMAND FACTOR:	114.81%
Motor	24933 VA	26513 VA	DEMAND LOAD:	52452 VA
			DEMAND AMPS:	63 A

PANEL DESIGNATION: 2L1

LOCATION:	MECH/ELEC 257	VOLTAGE RATING:	120/208 Wye	MAIN CIRCUIT BREAKER:	YES
SUPPLY FROM:	2T1	# OF PHASES:	3	BREAKER RATING:	400A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	400 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	100%
				MINIMUM KAIC:	10

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		N	P	CB	LOAD SERVED	CKT
1					14756	11257									2
3	2L2	150 A	3				14619	12947				3	150 A	2L3	4
5									11475	9372					6
7	Receptacle DIRECTOR 233	20 A	1		900	6280									8
9	Receptacle OFFICE 234	20 A	1				900	3240				3	100 A	2L4	10
11	Receptacle OFFICE 237	20 A	1						900	4280					12
13	Receptacle OFFICE 246	20 A	1		900	900						1	20 A	Receptacle OFFICE 232	14
15	Receptacle OFFICE 250	20 A	1				900	900				1	20 A	Receptacle OFFICE 235	16
17	Receptacle OFFICE 253	20 A	1						900	900		1	20 A	Receptacle OFFICE 239	18
19	Receptacle WORKROOM 255	20 A	1		900	900						1	20 A	Receptacle OFFICE 248	20
21	Receptacle CORRIDOR 247	20 A	1				1260	900				1	20 A	Receptacle OFFICE 252	22
23	Receptacle OFFICE 245	20 A	1						900	1000		1	20 A	Receptacle WORKROOM 255	24
25	Receptacle COUNTY MANAGER...	20 A	1		900	900						1	20 A	Receptacle OFFICE 251	26
27	Receptacle FILE / WORKROOM 230	20 A	1				720	900				1	20 A	Receptacle OFFICE 249	28
29	Receptacle OFFICE 226	20 A	1						900	900		1	20 A	Receptacle OFFICE 240	30
31	Receptacle OFFICE 222	20 A	1		900	1000						1	20 A	Receptacle FILE / WORKROOM 230	32
33	Receptacle ASSISTANT COUNTY...	20 A	1				720	900				1	20 A	Receptacle OFFICE 229	34
35	Receptacle OFFICE 220	20 A	1						720	900		1	20 A	Receptacle OFFICE 221	36
37	BOILER B-1	20 A	1		1560	720						1	20 A	Receptacle RECEPTION 224	38
39	BOILER B-2	20 A	1				1560	720				1	20 A	Receptacle ASSISTANT COUNTY...	40
41	Lighting	20 A	1						500	500		1	20 A	ELEV. CAB LTG	42
				TOTAL LOAD:	42773 VA		41186 VA		34147 VA						
				TOTAL AMPS:	365 A		352 A		285 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	13520 VA	13520 VA	TOTAL LOAD:	118106 VA
Lighting	1645 VA	2056 VA	DEMAND FACTOR:	66.15%
Motor	1041 VA	1161 VA	DEMAND LOAD:	78121 VA
Receptacle	85960 VA	47980 VA	DEMAND AMPS:	217 A
Power	4820 VA	4820 VA		
HEATING	3120 VA	2184 VA		
Electric Range - 3.5 kW to 8.75 kW	8000 VA	6400 VA		

PANEL DESIGNATION: 2L2

LOCATION:	MECH/ELEC 257	VOLTAGE RATING:	120/208 Wye	MAIN CIRCUIT BREAKER:	150A
SUPPLY FROM:	2L1	# OF PHASES:	3	BREAKER RATING:	N/A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	225 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	100%
				MINIMUM KAIC:	10

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		N	P	CB	LOAD SERVED	CKT
1	Receptacle BREAK 203	20 A	1		1000	1000						1	20 A	Receptacle BREAK 203	2
3	Receptacle OPEN OFFICE 265	20 A	1				900	1080				1	20 A	Receptacle DIRECTOR 267	4
5	Receptacle ASSISTANT DIRECTO...	20 A	1						900	1080		1	20 A	Receptacle OPEN OFFICE 265	6
7	Receptacle OPEN OFFICE 265	20 A	1		1000	1080						1	20 A	Receptacle CONFERENCE 264	8
9	Receptacle BREAK ROOM 262	20 A	1				1000	1000				1	20 A	Receptacle BREAK ROOM 262	10
11	Receptacle STAFF TOILET 263	20 A	1						540	360		1	20 A	Receptacle BREAK ROOM 262	12
13	Receptacle HALL 207	20 A	1		900	1260						1	20 A	Receptacle LOCAL HISTORY 260	14
15	Receptacle STUDY 261	20 A	1				1080	720				1	20 A	Receptacle LOCAL HISTORY 260	16
17	Receptacle STORAGE 259	20 A	1						360	360		1	20 A	Receptacle BREAK 203	18
19	Receptacle BREAK 203	20 A	1		180	720						1	20 A	Receptacle CHAMBER ROOM 291	20
21	Receptacle GREAT HALL 102	20 A	1				720	1000				1	20 A	Receptacle WORKROOM 244	22
23	Receptacle WORKROOM 244	20 A	1						540	540		1	20 A	Receptacle WORKROOM 244	24
25	Receptacle FRONT PORCH 118	20 A	1		1080	1440						1	20 A	Receptacle SHARED FOCUS ARE...	26
27	NAC PANEL	20 A	1				500	1500				1	20 A	Receptacle IT 204	28
29	Receptacle HALL 207	20 A	1						1000	720		1	20 A	Receptacle CHAMBER ROOM 291	30
31	Receptacle ADULT READING 268	20 A	1		1000	1080						1	20 A	Power	32
33	Receptacle CHAMBER ROOM 291	20 A	1				1800	1260				1	20 A	Receptacle STORAGE 297	34
35	CU-4/DMSS-4	20 A	2						1144	1872		2	30 A	CU-2/DMSS-2	36
37					1144	1872									38
39	CU-1/DMSS-1	20 A	2				1872	187				1	20 A	UNIT HEATER	40
41									1872	187		1	20 A	EF-2N-01	42
				TOTAL LOAD:	14756 VA		14619 VA		11475 VA						
				TOTAL AMPS:	127 A		126 A		96 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	9776 VA	9776 VA	TOTAL LOAD:	40850 VA
Motor	374 VA	421 VA	DEMAND FACTOR:	78.74%
Receptacle	27460 VA	18730 VA	DEMAND LOAD:	32167 VA
Power	3240 VA	3240 VA	DEMAND AMPS:	89 A

PANEL DESIGNATION: 2L3

LOCATION:	FILE ROOM 212	VOLTAGE RATING:	120/208 Wye	MAIN CIRCUIT BREAKER:	NO
SUPPLY FROM:	2L1	# OF PHASES:	3	BREAKER RATING:	100 A
MOUNTING:	Surface	# OF WIRES:	4	BUS RATING:	150 A
ENCLOSURE:	Type 1	SE RATED:	NO	NEUTRAL RATING:	100%
				MINIMUM KAIC:	10

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	A		B		C		N	P	CB	LOAD SERVED	CKT
1	Receptacle BREAK ROOM 262	20 A	1		180	645						1	20 A	Lighting	2
3	EF-2S-01	20 A	1				187	720				1	20 A	Receptacle CIRCULATION...	4
5	RANGE HOOD	20 A	1						480	720		1	20 A	Receptacle FILE ROOM 212	6
7	Receptacle HALL 200	20 A	1		780	360						1	20 A	Receptacle ADULT MAKERSPAC...	8
9	Receptacle RECEPTION 208	20 A	1				1000	1500				1	20 A	Receptacle WELLNESS 207	10
11	Receptacle DIRECTOR 216	20 A	1						900	900		1	20 A	Receptacle MEN 206	12
13	RANGE BREAK 203	50 A	2		4000	900						1	20 A	Receptacle OFFICE 215	14
15							4000								16
17	Receptacle CONFERENCE 217	20 A	1						1260						18
19	Receptacle OFFICE 209	20 A	1		900	360						1	20 A	Power	20
21	Receptacle ROOF	20 A	1				360	900				1	20 A	Receptacle RECEPTION 208	22
23										1872		2	30 A	CU-3/DMSS-3	24
25						1872									26
27	Receptacle OFFICE 210	20 A	1				900								28
29	Receptacle ROOF	20 A	1						360	900		1	20 A	Receptacle WOMEN 205	30
31															32
33	Receptacle GREAT HALL 102	20 A	1				720	540				1	20 A	Receptacle CHAMBER ROOM 291	34
35	Receptacle OFFICE 213	20 A	1						900	1080		1	20 A	Receptacle BREAK 203	36
37	Receptacle BREAK 203	20 A	1		720	540						1	20 A	Receptacle CONFERENCE 219	38
39	Receptacle FRONT PORCH 118	20 A	1				1080	1040				1	20 A	Receptacle CONFERENCE 219	40
41															42
				TOTAL LOAD:	11257 VA		12947 VA		9372 VA						
				TOTAL AMPS:	96 A		110 A		78 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
HVAC	3744 VA	3744 VA	TOTAL LOAD:	33576 VA
Lighting	645 VA	806 VA	DEMAND FACTOR:	82.22%
Motor	667 VA	787 VA	DEMAND LOAD:	27607 VA
Receptacle	19300 VA	14650 VA	DEMAND AMPS:	77 A
Power	1220 VA	1220 VA		
Electric Range - 3.5 kW to 8.75 kW	8000 VA	6400 VA		

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NORTH CAROLINA PROFESSIONAL SEAL 041410 ENGINEER WILLIAM A. KEMP
6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

SCHEDULES

E-501

PANEL DESIGNATION: 2L4

LOCATION: STORAGE 270	**VOLTAGE RATING:** 120/208 Wye	**MAIN CIRCUIT BREAKER:** YES
SUPPLY FROM: 2L1	**# OF PHASES:** 3	**BREAKER RATING:** 100A
MOUNTING: Surface	**# OF WIRES:** 4	**BUS RATING:** 100 A
ENCLOSURE: Type 1	**SE RATED:** NO	**NEUTRAL RATING:** 100%
		MINIMUM KAIC: 10

PANEL NOTES:

CKT	LOAD SERVED	CB	P	N	PHASE A (VA)		PHASE B (VA)		PHASE C (VA)		N	P	CB	LOAD SERVED	CKT
1	Receptacle ADULT WORKROOM...	20 A	1		540	1000						1	20 A	Receptacle ADULT WORKROOM...	2
3	Receptacle ADULT WORKROOM...	20 A	1				720	360				1	20 A	Receptacle ADULT WORKROOM...	4
5	Receptacle YOUNG ADULT 273	20 A	1						540	1080		1	20 A	Receptacle ADULT READING 268	6
7	Receptacle ADULT MAKERSPAC...	20 A	1		900	900						1	20 A	Receptacle ADULT MEETING 271	8
9	Receptacle WOMEN 278	20 A	1				900	540				1	20 A	Receptacle WOMEN 278	10
11	Receptacle MEN 277	20 A	1						540	900		1	20 A	Receptacle ADULT STACKS 269	12
13	Receptacle HALL 275	20 A	1		780	720						1	20 A	Receptacle YOUTH MAKERSPAC...	14
15	Spare	20 A	1	--			0	0				1	20 A	Power ADULT MEETING 271	16
17	Spare	20 A	1	--					0	720		1	20 A	Receptacle YOUTH...	18
19	Spare	20 A	1	--	0	360						1	20 A	Receptacle YOUTH...	20
21	Spare	20 A	1	--			0	360				1	20 A	Receptacle YOUTH...	22
23	Spare	20 A	1	--					0	500		1	20 A	Receptacle HALL 275	24
25	Spare	20 A	1	--	0	1080						1	20 A	Receptacle YOUTH PROGRAM 137	26
27	Spare	20 A	1	--			0	360				1	20 A	Receptacle YOUTH...	28
29	Spare	20 A	1	--					0	0	--	1	20 A	Spare	30
31	Spare	20 A	1	--	0	0					--	1	20 A	Spare	32
33	Spare	20 A	1	--			0	0			--	1	20 A	Spare	34
35	Spare	20 A	1	--					0	0	--	1	20 A	Spare	36
37	Spare	20 A	1	--	0	0					--	1	20 A	Spare	38
39	Spare	20 A	1	--			0	0			--	1	20 A	Spare	40
41	Spare	20 A	1	--					0	0	--	1	20 A	Spare	42
				TOTAL LOAD:	6280 VA		3240 VA		4280 VA						
				TOTAL AMPS:	54 A		27 A		37 A						

CIRCUIT BREAKER NOTES (N):

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Receptacle	13440 VA	11720 VA	**TOTAL LOAD:**	13800 VA
Power	360 VA	360 VA	**DEMAND FACTOR:**	87.54%
			DEMAND LOAD:	12080 VA
			DEMAND AMPS:	34 A

LCP-1 SCHEDULE

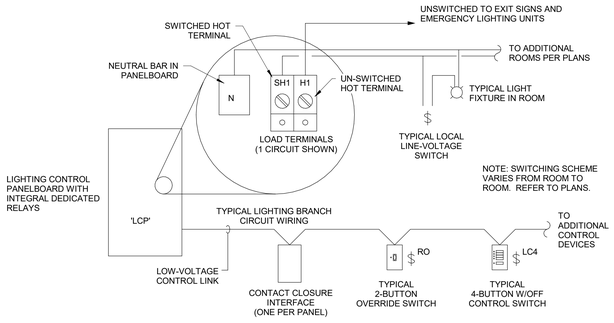
RELAY #	PANEL DESIGNATION/ DESCRIPTION	VOLT/PHASE	FUNCTION	LAMP TYPE	NOTES
1	1H1-10/FRONT PORCH	277/1	ON/OFF	LED	1,2
2	1H1-7/YOUTH READING STACKS	277/1	ON/OFF	LED	1,2
3	1H1-9/YOUTH READING STACKS	277/1	ON/OFF	LED	1,2
4	1H1-26/EXTERIOR BLDG MOUNTED	277/1	ON/OFF	LED	1,4
5	1H1-28/SITE LIGHTING	277/1	ON/OFF	LED	1,4
6	2H1-18/GREAT HALL	277/1	ON/OFF	LED	1,2
7	2L3-27/YOUTH READING STACKS	120/1	ON/OFF	LED	1,2
8	2L3-27/OPEN TO BELOW 270& 490	120/1	ON/OFF	LED	1,2
9	2L3-27/GREAT HALL	120/1	ON/OFF	LED	1,2
10	2H1-6/YOUTH READING STACKS	277/1	ON/OFF	LED	1,2
11	SPARE	___/1	ON/OFF	LED	_-_
12	SPARE	___/1	ON/OFF	LED	_-_
13	SPARE	___/1	ON/OFF	LED	_-_
14	SPARE	___/1	ON/OFF	LED	_-_
15	SPARE	___/1	ON/OFF	LED	_-_
16	SPARE	___/1	ON/OFF	LED	_-_

REMARKS
1. PROGRAM NORMAL ON/OFF, COORDINATE AUTOMATED SCHEDULE WITH OWNER.
2. LIGHTING FIXTURES WITH EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED WITH A CONSTANT UNSWITCHED HOT LEG OF CIRCUIT.
3. BLINK FLASH ALERT SIGNAL, LOCAL LOW VOLTAGE SWITCH SHALL OVERRIDE.
4. OL - OUTSIDE LIGHT : ASTRONOMICAL CLOCK ON/OFF. COORDINATE SCHEDULE WITH OWNER.
5. PROVIDE A UL LISTED BARRIER TO SEPARATE 120V CIRCUITS FROM 277V CIRCUITS.
6. PROVIDE DIMMING RELAY.

LCP-2 SCHEDULE

RELAY #	PANEL DESIGNATION/ DESCRIPTION	VOLT/PHASE	FUNCTION	LAMP TYPE	NOTES
1	2H1-6/HALL & PRE-FUNCTION	277/1	ON/OFF	LED	1,2
2	2H1-19/ADULT READING	277/1	ON/OFF	LED	1,2
3	SPARE	___/1	ON/OFF	LED	_-_
4	SPARE	___/1	ON/OFF	LED	_-_
5	SPARE	___/1	ON/OFF	LED	_-_
6	SPARE	___/1	ON/OFF	LED	_-_
7	SPARE	___/1	ON/OFF	LED	_-_
8	SPARE	___/1	ON/OFF	LED	_-_
9	SPARE	___/1	ON/OFF	LED	_-_
10	SPARE	___/1	ON/OFF	LED	_-_
11	SPARE	___/1	ON/OFF	LED	_-_
12	SPARE	___/1	ON/OFF	LED	_-_
13	SPARE	___/1	ON/OFF	LED	_-_
14	SPARE	___/1	ON/OFF	LED	_-_
15	SPARE	___/1	ON/OFF	LED	_-_
16	SPARE	___/1	ON/OFF	LED	_-_

REMARKS
1. PROGRAM NORMAL ON/OFF, COORDINATE AUTOMATED SCHEDULE WITH OWNER.
2. LIGHTING FIXTURES WITH EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED WITH A CONSTANT UNSWITCHED HOT LEG OF CIRCUIT.
3. BLINK FLASH ALERT SIGNAL, LOCAL LOW VOLTAGE SWITCH SHALL OVERRIDE.
4. OL - OUTSIDE LIGHT : ASTRONOMICAL CLOCK ON/OFF. COORDINATE SCHEDULE WITH OWNER.
5. PROVIDE A UL LISTED BARRIER TO SEPARATE 120V CIRCUITS FROM 277V CIRCUITS.
6. PROVIDE DIMMING RELAY.



1 RELAY LIGHTING CONTROL SYSTEM TYPICAL WIRING DIAGRAM
Scale: NOT TO SCALE

LTG - LED LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	SIZE	LIGHT SOURCE				DRIVER	NOTES	VOLT	SYSTEM WATTS
						TYPE	LUMEN OUTPUT	COLOR	CRI (min)	TYPE			
A	2x4 RECESSED VOLUMETRIC TROFFER	LITHONIA COLUMBIA LSI	2BLT4-60L-ADSM-EZ1-LP840 LCAT-24-40-HL-G-ED1 LPEC24-LED-65L-DIM1-40	CEILING	23 3/4"W x 47 3/4"L x 2 3/8"D	LED	6112	4000	80	0-10 VOLT DIMMING TO 1%		277	47 W
AA	ELEVATOR PIT LIGHT	HUBBELL LITHONIA SPECTRUM LTG	VWGL-1 OLVTWM WJ1LEDTX2-LEDX12X7W-40K-E1-FJ1-CG1CP106-BZ	WALL	11"H x 5 1/4"W x 7 1/2"D	LED	757	4100	80	ELECTRONIC		120	11 W
B	2X4 RECESSED ACRYLIC LENS TROFFER	LITHONIA COLUMBIA LSI	2TL4-60L-FW-A12-EZ1-LP840 LIT-24-40-HL-G-FS-A12125-ED1 GA24-LED-SS-NW-P12.125-L3D	CEILING	24"W x 48"L x 3 3/4"D	LED	5588	4000	80	0-10 VOLT DIMMING TO 1%		277	47 W
BB	EXTERIOR WALL FIXTURE - TYPE 4	GARDCO LITHONIA LSI	101L-16L-700-NW-G1-4 WST LED-P2-40K-VW-DDBXD XGBWM3-WT-LED-28-450-NW-BRZ	WALL	16 3/8"W x 9"D x 7 1/4"H	LED	3789	4000	70	ELECTRONIC		277	37 W
C	4' LINEAR STRIPLIGHT	LITHONIA COLUMBIA LSI	ZL1D-L48-SMR-5000LM-FST-40K-80CRI-WH-HC36 LCL-4-40-ML-ED1-CSHC SDL4-LED-60L-FL-DIM1-40-80CRI-M38258	PENDANT	48"L x 2 1/4"W x 3"H	LED	5541	4000	80	0-10 VOLT DIMMING TO 1%		277	48 W
CC	12' RECESSED LINEAR SLOT	LUMENWERX FINELITE FOCAL POINT	CAVR-RLO-LED-80CRI-750-40-12FT-D1-1-W HP-4 R-12'-H-840-F-SC FSM4L-FL-875LF-40K-1C-L11-WH-12FT	CEILING	12'L x 6"W x 3 3/4"H	LED	9000	4000	80	0-10 VOLT DIMMING TO 1%		277	76 W
D	6" OPEN DOWNLIGHT	GOTHAM PRESCOLITE SPECTRUM LTG	EVO-40-30-6AR-MWD-LSS-EZ1 LF6ML-DM1-6LFML30L-8-SS RDFO6XT-30L-40K-WD-DO10-RD6FXT-SG	CEILING	13 3/16L x 15 7/8"W x 7 9/16"H	LED		4000	80	0-10 VOLT DIMMING TO 1%		277	37 W
DD	14' RECESSED LINEAR SLOT	LUMENWERX FINELITE FOCAL POINT	CAVR-RLO-LED-80CRI-750-40-14FT-D1-1-W HP-4 R-14'-H-840-F-SC FSM4L-FL-875LF-40K-1C-L11-WH-14FT	CEILING	14'L x 6"W x 3 3/4"H	LED	10500	4000	80	0-10 VOLT DIMMING TO 1%		277	89 W
F	6" OPEN DOWNLIGHT	GOTHAM PORTFOLIO SPECTRUM LTG	EVO-40-80-6AR-MWD-LSS-EZ1 LD8B-80-D010-ERBB-80120-8040-8LB-W-H SGE6BX-80L-40K-WD-DO10-AR6BX-SG-WF	CEILING	16"L x 16"W x 7 1/2"H	LED	8247	4000	80	0-10 VOLT DIMMING TO 1%		277	75 W
FF	2x2 RECESSED VOLUMETRIC TROFFER	LITHONIA COLUMBIA LSI	2BLT2-48L-ADSM-EZ1-LP840 LCAT-22-40-VL-G-ED1 LPEC22-LED-50L-DIM1-40	CEILING	23 3/4"L x 23 3/4"W x 2 3/8"D	LED	4877	4000	80	0-10 VOLT DIMMING TO 1%		277	44 W
G	6' RECESSED LINEAR SLOT	LUMENWERX FINELITE FOCAL POINT	CAVR-RLO-LED-80CRI-750-40-6FT-D1-1-W HP-4 R-6'-H-840-F-SC FSM4L-FL-875LF-40K-1C-L11-WH-6FT	CEILING	6'L x 6"W x 3 3/4"H	LED	4500	4000	80	0-10 VOLT DIMMING TO 1%		277	38 W
GG	24' LINEAR COVE LIGHT	AXIS LIGHTING OR APPROVED EQUAL	CCL-SL-300-80-40-CL24-W-DP-1-AC	COVE	24'L x 3 9/16"W x 1 5/8"H	LED	7200	4000	80	0-10 VOLT DIMMING TO 1%		277	72 W
H	16' RECESSED LINEAR SLOT	LUMENWERX FINELITE FOCAL POINT	CAVR-RLO-LED-80CRI-750-40-16FT-D1-1-W HP-4 R-16'-H-840-F-SC FSM4L-FL-875LF-40K-1C-L11-WH-16FT	CEILING	16'L x 6"W x 3 3/4"H	LED	12000	4000	80	0-10 VOLT DIMMING TO 1%		277	100 W
HH	24' RECESSED LINEAR SLOT	LUMENWERX FINELITE FOCAL POINT	CAVR-RLO-LED-80CRI-750-40-24FT-D1-1-W HP-4 R-24'-H-840-F-SC FSM4L-FL-875LF-40K-1C-L11-WH-24FT	CEILING	24"L x 6"W x 3 3/4"H	LED	18000	4000	80	0-10 VOLT DIMMING TO 1%		277	152 W
J	8' RECESSED LINEAR SLOT	LUMENWERX FINELITE FOCAL POINT	CAVR-RLO-LED-80CRI-750-40-8FT-D1-1-W HP-4 R-8'-H-840-F-SC FSM4L-FL-875LF-40K-1C-L11-WH-8FT	CEILING	8'L x 6"W x 3 3/4"H	LED	6000	4000	80	0-10 VOLT DIMMING TO 1%		277	50 W
JJ	4' LINEAR SCONCE	ALW LIGHTING OR APPROVED EQUAL	RLP1SM.4-S4-MED-80-4000K-0/10V/1%-EXT-AL	WALL	4'L x 4"D x 1 7/8"H	LED	765	4000	80	0-10 VOLT DIMMING TO 1%		277	10 W
K	3/4 LIGHT REVEAL WITH 90W POWER SUPPLY	FRY REGRET OR APPROVED EQUAL	LED-RVL75D10C	COVE REVEAL	3/4" REVEAL IN DRYWALL	LED	5500	4000	80	0-10 VOLT DIMMING TO 1%		277	40 W
L	18' RECESSED LINEAR SLOT	LUMENWERX FINELITE FOCAL POINT	CAVR-RLO-LED-80CRI-750-40-18FT-D1-1-W HP-4 R-18'-H-840-F-SC FSM4L-FL-875LF-40K-1C-L11-WH-18FT	CEILING	18'L x 6"W x 3 3/4"H	LED	13500	4000	80	0-10 VOLT DIMMING TO 1%		277	114 W
M	16' LINEAR DIRECT/INDIRECT PENDANT	FINELITE PRUDENTIAL FOCAL POINT	HP-4 ID-16'-V-V-840-TG-F-FA-FE BIO-LIN-LED4-SO-R16'-SAL-D1-CW-SC-CA144-DM01 FSM4BS-FLFL-1000DN-1000UP-40K-1C-L11-16'	PENDANT	16'L x 4"W x 4 3/4"H	LED	31544	4000	80	0-10 VOLT DIMMING TO 1%		277	296 W
N	8' LINEAR DIRECT/INDIRECT PENDANT	FINELITE PRUDENTIAL FOCAL POINT	HP-4 ID-8'-S-H-840-TG-F-FA-FE BIO-LIN-LED4-MO-8'-SAL-D1-CW-SC-CA144-DM01 FSM4BS-FLFL-1000DN-875UP-40K-1C-L11-8'	PENDANT	8'L x 4"W x 4 3/4"H	LED	9188	4000	80	0-10 VOLT DIMMING TO 1%		277	88 W
P	DECORATIVE PENDANT	BARN LIGHT OR APPROVED EQUAL	DBW16-LED43	PENDANT	16"DIA x 12 3/4"H	LED	4000	4000	90	0-10 VOLT DIMMING TO 10%		277	43 W
Q	DECORATIVE PENDANT	BARN LIGHT OR APPROVED EQUAL	DBW20-LED43	PENDANT	20 1/4"DIA x 16 1/4"H	LED	4000	4000	90	0-10 VOLT DIMMING TO 10%		277	43 W
R	DECORATIVE PENDANT	UMAGE OR APPROVED EQUAL	ACORN PENDANT	PENDANT	6 1/3"DIA x 5 1/2"H	LED	180	3000	80	0-10 VOLT DIMMING TO 1%		120	3 W
S	DECORATIVE PENDANT	dweLED OR APPROVED EQUAL	CORSO-DWEP154713-BLACK-32"	PENDANT	32"DIA x 4 1/4"H	LED	6340	3000	80	0-10 VOLT DIMMING TO 10%		277	88 W
S1	PEDESTRIAN SCALE LIGHT FIXTURE ON 12' POLE	GARDCO KIM LITHONIA	GL13-1-2-70LA-6035-NW-BRP UR20-68L-80-2 MR1 LED-42C-530-40K-SR2	CONCRETE BASE	22 3/4"L x 13 1/2"W x 9 1/2"H	LED	6652	4000	70	ELECTRONIC		277	
T	DECORATIVE PENDANT	BARN LIGHT OR APPROVED EQUAL	DBW10-LED38	PENDANT	10"DIA x 9"H	LED	3000	4000	90	0-10 VOLT DIMMING TO 10%		277	38 W
U	6" OPEN DOWNLIGHT	GOTHAM PRESCOLITE SPECTRUM LTG	EVO-40-15-6AR-MWD-LSS-EZ1 LBP6-6LBP-15L-40K-WH RDFO6XT-13L-40K-WD-DO10-RD6FXT-SG	CEILING	13 3/16L x 15 7/8"W x 7 9/16"H	LED	1595	4000	80	0-10 VOLT DIMMING TO 1%		277	19 W
V	DECORATIVE LINEN PENDANT	MUUTO LIGHTING OR APPROVED EQUAL	FLUID LARGE	PENDANT	16 1/2"DIA x 10 1/2"H	LED	750	3500	80	0-10 VOLT DIMMING TO 10%		120	18 W
W	DECORATIVE LINEN PENDANT	MUUTO LIGHTING OR APPROVED EQUAL	FLUID SMALL	PENDANT	9"DIA x 5 1/2"H	LED	230	3500	80	0-10 VOLT DIMMING TO 10%		120	5 W
X	EXIT SIGN WITH ALUMINUM HOUSING	LITHONIA DUAL LITE EVENLITE	LE-S-1-R-SD SE-S/D-R-W-1 CCDMR-AC-R-AW-CN	CEILING / WALL	12 15/16"W x 9 7/16"H x 1 3/4"D	LED		0	0	ELECTRONIC		277	
Y	DECORATIVE MULTI-LIGHT PENDANT	KUZCO LIGHTING OR APPROVED EQUAL	SUPERNOVA-12 LIGHTS-WHITE	PENDANT	15"DIA x 4"H	LED	2820	3000	80	0-10 VOLT DIMMING TO 10%		120	60 W
Z	DECORATIVE PENDANT	SISTEMALUX OR APPROVED EQUAL	RONDA MEDIUM PENDANT	PENDANT	30 3/4"DIA x 8 3/4"H	LED	3525	3000	80	ELECTRONIC		120	71 W

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 041410 WILLIAM A. KENT
6/27/19

CONSTRUCTION DOCUMENTS

06.27.2019

NO.	REASON	DATE

PRINCIPAL IN CHARGE
MBW

PROJECT MANAGER
GAM

DESIGN TEAM
WAK, ELP, GM

HARNETT COUNTY GOVERNMENT SERVICES CENTER

514-8066-00

SCHEDULES

E-502