THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

GENERAL

#	DEMOLITION KEYED NOTE.
##	NEW WORK KEYED NOTE.
	REMOVE WIRING, CABLING, ETC. TO THIS POINT.
	CONNECT WIRING, CABLING, ETC. TO THIS POINT.
X / XXX	FEEDER TAG - SEE FEEDER SCHEDULE
PR	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO REMAIN.
PRN	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND REPLACED WITH NEW.
PRR	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., SHOWN AT NEW LOCATION
PRX	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND OUTLET BOX EXTENSION INSTALLED FOR SURFACE CONDUIT OR SMR AND WIRE EXTENSION TO NEW OUTLET SHOWN. REINSTALL PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC.
RPC	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., AND CAP OUTLET
RPP	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., PATCH THE PLASTER IF IN PLASTER; CAP IF IN METAL OR WOOD.
RPR	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND RELOCATED.
RPX	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., WIRE AND ALL RELATED EXPOSED RACEWAY INSOFAR AS IS POSSIBLE. ALL DAMAGED SURFACES TO BE REPAIRED.

AREA OF REFUGE SYMBOLS

RAMS	RESCUE ASSISTANCE MASTER STATION
RARS	RESCUE ASSISTANCE REMOTE STATION

LIGHTING FIXTURES

- SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
- SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO EMERGENCY/LIFE SAFETY BRANCH CIRCUIT OR PROVIDE EMERGENCY DRIVER. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
- SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO EQUIPMENT BRANCH CIRCUIT OR PROVIDE EMERGENCY DRIVER. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
- SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO CRITICAL BRANCH CIRCUIT OR PROVIDE EMERGENCY DRIVER. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
- SURFACE MOUNTED TRACK LIGHTING SYSTEM. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT TRACK AND FIXTURE REQUIREMENTS.
- MONO-POINT HEAD LIGHT FIXTURE. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT TRACK AND FIXTURE REQUIREMENTS.
- CEILING MOUNTED EXIT SIGN, SHADED AREA INDICATES FACE WITH DIRECTIONAL ARROWS AS SHOWN. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
- WALL MOUNTED EXIT SIGN, SHADED AREA INDICATES FACE WITH DIRECTIONAL ARROWS AS SHOWN. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
- POLE MOUNTED ROUND SITE LIGHTING FIXTURE. NUMBER OF HEADS AS SHOWN ON PLANS
- POLE MOUNTED SQUARE SITE LIGHITNG FIXTURE. NUMBER OF HEADS AS SHOWN ON PLANS
- STRIP FIXTURE
- DOWNLIGHT FIXTURE
- WALL WASHER FIXTURE
- BOLLARD
- PENDANT LIGHT
- EMERGENCY BATTERY PACK UNIT WITH NUMBER OF LAMPS AS INDICATED WITH SELF DIAGNOSTICS. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
- EMERGENCY REMOTE LIGHTING FIXTURE WITH SINGLE LAMP. LETTER (WHERE SHOWN) INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO REMOTE BATTERY PACK. SEE PLANS.
- EMERGENCY REMOTE LIGHTING FIXTURE WITH DOUBLE LAMPS. LETTER (WHERE SHOWN) INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO REMOTE BATTERY PACK. SEE PLANS.

LIGHTING FIXTURE KEY
- INDICATES FIXTURE TYPE SEE SCHEDULE FOR DESCRIPTION (X)
- INDICATES SWITCH CONTROL (a,b,c,..) (a)
- INDICATES PANEL NAME (YY)
- INDICATES CIRCUIT NUMBER (##)

LIGHTING CONTROLS

WALL | CEILING

- OS: DUAL TECHNOLOGY LINE VOLTAGE OCCUPANCY SENSOR, UNLESS OTHERWISE NOTED IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) CEILING-MOUNTED OUTLET BOX. X - DENOTES CONTROL ZONE ; Y - DENOTES LARGE/SMALL MOTION
- VS: DUAL TECHNOLOGY VACANCY SENSOR IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) CEILING-MOUNTED OUTLET BOX. X - DENOTES CONTROL ZONE ; Y - DENOTES LARGE/SMALL MOTION
- D: DAYLIGHT SENSOR
- PC: LIGHTING PHOTOCELL. MOUNT PER MANUFACTURER'S REQUIREMENTS. X - DENOTES CONTROL ZONE
- SBD: SWITCH BYPASS DEVICE.
- LC / LC#: LIGHTING CONTROL STATION - REFER TO KEY NOTES OR TYPE DETAIL FOR MORE INFORMATION # INDICATES TYPE NUMBER (1,2,3,...)
- ZM: LIGHTING OR SWITCHED RECEPTACLE ZONE MODULE.
- $ X: SINGLE-POLE LINE VOLTAGE SWITCH UNLESS OTHERWISE NOTED, IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. X - DENOTES TYPE (MAY BE MULTIPLE):

a,b,c	SWITCH / CONTROL ZONE/GROUP	LVD	LOW VOLTAGE DIMMER
3	THREE WAY	MC	MOMENTARY CONTACT
4	FOUR WAY	M	MOTOR STARTER
D	DIMMER	P	PILOT LIGHT
OS	DUAL TECH OCCUPANCY SENSOR	T	TIMER SWITCH WITH VISUAL AND AUDIBLE OFF WARNING
OS2	DUAL TECH, DUAL CIRCUIT OCCUPANCY SENSOR	VS	VACANCY SWITCH
E	EMERGENCY (RED COLOR)	VSD	VACANCY SWITCH DIMMER
F	FAN	W	WET LOCATION
K	KEY OPERATED	WP	WEATHER PROOF COVER
LV	LOW VOLTAGE	X	EXPLOSION PROOF

POWER EQUIPMENT

- 480/277 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR EXACT REQUIREMENTS.
- 208Y/120 OR 120/240 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR EXACT REQUIREMENTS.
- EXISTING PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR EXACT REQUIREMENTS.
- P: ELECTRICAL POWER POLE, MOUNTING AND CONFIGURATION AS SPECIFIED.
- M: MOTOR CONNECTION. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL CONNECTION.
- CB: ENCLOSED CIRCUIT BREAKER, FRAME SIZE AND TRIP RATING AS INDICATED ON PLANS.
- MANUAL MOTOR STARTER. STARTER TYPE AND SIZE AS INDICATED ON PLANS.
- NON-FUSED DISCONNECT. FRAME SIZE AS INDICATED ON PLANS.
- FUSED DISCONNECT. FRAME SIZE AND TRIP RATING AS INDICATED ON PLANS. PROVIDE FUSES PER NAMEPLATE OF EQUIPMENT SERVED UNLESS OTHERWISE INDICATED.
- COMBINATION MOTOR STARTER & DISCONNECT. FRAME SIZE, TRIP RATING, AND STARTER SIZE AS INDICATED ON PLANS.

DISCONNECT SWITCH TAG KEY
- SIZE
- NO. OF POLES
- NEMA TYPE
- FUSE SIZE OR NF

- VFD: VARIABLE FREQUENCY DRIVE - ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL CONNECTION.
- ATS: AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM
- Txx: TRANSFORMER - SEE RISER DIAGRAM

WIRING, RACEWAY, & GROUNDING

- CONDUIT WITH BUSHING AND CAP
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CONDUIT CONTINUED
- SURFACE METAL RACEWAY, MOUNTING AND CONFIGURATION AS SPECIFIED.
- CONCEALED CONDUIT AND WIRING
- UNDER FLOOR OR UNDER GROUND CONDUIT AND WIRING
- GND: GROUND CABLE
- GROUNDING TRIODE
- GROUNDING ROD
- B1-3: WIRING HOMERUN - INDICATES CIRCUIT CONDUIT AND WIRE TO PANELBOARD SEE PANEL SCHEDULE

POWER DEVICES

WALL | FLOOR | CEILING

- 125 VOLT, 3 WIRE DUPLEX RECEPTACLE FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.
- 125 VOLT, 3 WIRE DUPLEX RECEPTACLE GFI FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.
- EMERGENCY DUPLEX RECEPTACLE
- EMERGENCY GFI DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- EMERGENCY QUAD RECEPTACLE
- SPECIAL EQUIPMENT RECEPTACLE/EQUIPMENT CONNECTION. SUBSCRIPT INDICATES NEMA CONFIGURATION, IF APPLICABLE. SEE EQUIPMENT CONNECTION SCHEDULE FOR EXACT REQUIREMENTS.
- JUNCTION BOX FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX, COORDINATE LOCATION WITH MANUFACTURER FOR EQUIPMENT MOUNTED BOXES.

POWER DEVICE NOMENCLATURE

+	ABOVE COUNTER	WP	WEATHER PROOF
+#	CUSTOM MOUNTING HEIGHT	EWC	ELECTRIC WATER COOLER
IG	ISOLATED GROUND	USB	DUPLEX WITH USB-A & USB-C PORTS
TR	TAMPER RESIDENT		

POWER DEVICE TAG KEY
- INDICATES PANEL NAME
- DEVICE SYMBOL
- XX-XX
- INDICATES CIRCUIT NUMBER

- ELECTRIC PUSH BUTTON - FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS.
- PUSH BUTTON (3 POSITION) - FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS.
- EMERGENCY STOP MUSHROOM TYPE BUTTON IN SURFACE MOUNTED BOX. MOUNT 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS.
- POKE-THRU. PROVIDE ELECTRICAL DEVICE. SAME DEVICE MAYBE SHOWN ON BOTH POWER AND SYSTEMS PLANS.
- POKE-THRU. PROVIDE COMBINATION ELECTRICAL/DATA DEVICE. SAME DEVICE IS SHOWN ON BOTH POWER AND SYSTEMS PLANS.
- POKE-THRU. PROVIDE DATA DEVICE. SAME DEVICE MAYBE SHOWN ON BOTH POWER AND SYSTEMS PLANS.
- CORE DRILL
- FLOOR BOX - PROVIDE DEVICES AND COUNTS AS SHOWN OR NOTED
- FURNITURE FEED
- CR: CORD REEL
- M: MOTORIZED DAMPER - PROVIDE 120V POWER AND LOCAL DISCONNECT. COORDINATE EXACT LOCATIONS WITH M.C.
- CP: EQUIPMENT CONTROL PANEL. FINAL CONNECTION BY E.C.

LIGHTNING PROTECTION

- AIR TERMINAL
- LIGHTNING PROTECTION CONNECTION
- LIGHTNING PROTECTION ROOF PENETRATION
- GROUNDING ROD

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN

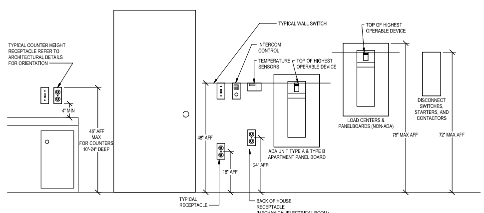
ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)
- lamp type required in fixture
- number of lamps in fixture
- ballast type used in the fixture
- number of ballasts in fixture
- total wattage per fixture
- total interior wattage specified vs. allowed (whole building or space by space)
- total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- ☐ C406.2 More Efficient Mechanical Equipment
- ☐ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating



1 DEVICE MOUNTING HEIGHT DETAIL
SCALE: NTS

ELECTRICAL SHEET INDEX

E001	ELECTRICAL DATA SHEET
E002	ELECTRICAL DATA SHEET
E003	LUMINAIRE SCHEDULE
E100	ELECTRICAL SITE PLAN
E101	ELECTRICAL - NEW WORK PLAN - LIGHTING - LEVEL 1
E102	ELECTRICAL - NEW WORK PLAN - LIGHTING - LEVEL 2
E103	ELECTRICAL - NEW WORK PLAN - LIGHTING - LEVEL 3
E111	ELECTRICAL - NEW WORK PLAN - POWER - LEVEL 1
E112	ELECTRICAL - NEW WORK PLAN - POWER - LEVEL 2
E113	ELECTRICAL - NEW WORK PLAN - POWER - LEVEL 3
E114	ELECTRICAL - NEW WORK PLAN - ROOF
E115	ELECTRICAL - NEW WORK PLAN - LIGHTNING PROTECTION
E200	ELECTRICAL ENLARGED PLANS
E300	POWER RISER DIAGRAM
E400	ELECTRICAL PANEL SCHEDULES
E401	ELECTRICAL PANEL SCHEDULES
E402	ELECTRICAL PANEL SCHEDULES
E403	ELECTRICAL PANEL SCHEDULES
E500	ELECTRICAL - DETAILS
E501	ELECTRICAL - DETAILS
E502	ELECTRICAL - DETAILS

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Designed OWN Drawn OWN
Checked JCA Date 05/12/23
Project No. 05607-0028

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CFVH HARNETT MOB - Core & Shell

225 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT: 8403-225630

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL DATA SHEET

ORIG SUBMISSION: 2023-05-12

SHEET: E001

100% CONSTRUCTION DOCUMENTS

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

DATA / COMMUNICATION - WITH CABLE

WALL	FLOOR	CEILING	DESCRIPTION
▽	▽ (box)	▽ (circle)	VOICE OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE (1) CAT6 CABLE, FROM LOCATION TO PATCH PANEL IN TELECOM ROOM. COLOR PER TABLE BELOW
▼	▼ (box)	▼ (circle)	DATA OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE (1) CAT6 CABLE FROM LOCATION TO PATCH PANEL IN TELECOM ROOM. COLOR PER TABLE BELOW
▼	▼ (box)	▼ (circle)	DATA/VOICE OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE (2) CAT6 CABLES FROM LOCATION TO PATCH PANEL IN TELECOM ROOM. COLOR PER TABLE BELOW

DATA & VOICE DEVICE TAG KEY

- NUMBER OF DATA PORTS
- NUMBER OF VOICE PORTS

#/# ▼ # ▽ # ▼

SYMBOL	DESCRIPTION
WAP	WIRELESS ACCESS POINT - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET CEILING MOUNTED FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. PROVIDE (1) CAT6 CABLES FROM LOCATION BACK TO MDF/IDF ROOM IN DEDICATED P.O.E. PATCH PANEL.

CAT 6 CABLE COLOR

DATA	BLUE	PRINTER	YELLOW
VOICE	WHITE	WAP	BLACK

SYMBOL	DESCRIPTION
TV	TELEVISION CABLE OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. PROVIDE (1) RG6 SHIELDED COAXIAL CABLE FROM LOCATION TO TERMINATION BOARD.

WALL	CEILING	DESCRIPTION
SP	SP	COMMUNICATION SYSTEM SPEAKER. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
AI		AUDIO INPUT
MIC		MICROPHONE
(hatched)		BASKET TRAY - (width)" x (height)" AS INDICATED.

DATA / COMMUNICATION - PATHWAYS & BOXES

WALL	FLOOR	CEILING	DESCRIPTION
▽	▽ (box)	▽ (circle)	VOICE OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.
▼	▼ (box)	▼ (circle)	DATA OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.
▼	▼ (box)	▼ (circle)	DATA/VOICE OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.

SYMBOL	DESCRIPTION
WAP	WIRELESS ACCESS POINT - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET CEILING MOUNTED FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.
TV	TELEVISION CABLE OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.

WALL	CEILING	DESCRIPTION
SP	SP	COMMUNICATION SYSTEM SPEAKER. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
AI		AUDIO INPUT
MIC		MICROPHONE
(hatched)		BASKET TRAY - (width)" x (height)" AS INDICATED.

ACCESS CONTROL - WITH CABLE

SYMBOL	DESCRIPTION
ACP	ACCESS CONTROL SYSTEM PANEL
CR	FLUSH MOUNTED ACCESS CONTROL CARD READER MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. PROVIDE (1)3 PAIR #18 AWG STRANDED COPPER, SHIELDED CMP FOR EACH CARD READER TO ACCESS CONTROLLER.
KP	FLUSH MOUNTED ACCESS CONTROL KEY PAD MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. PROVIDE (1)3 PAIR #18 AWG STRANDED COPPER, SHIELDED CMP FOR EACH CARD READER TO ACCESS CONTROLLER.
DR	DOOR RELEASE BUTTON. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE PROVIDE (1)6 CONDUCTOR #18AWG SHIELDED, CMP CABLE TO ACCESS CONTROLLER SERVING FLOOR.
HS	INFRARED HAND SENSOR FOR HANDS FREE DOOR OPERATION. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE. PROVIDE (2)6 CONDUCTOR #18AWG SHIELDED, CMP CABLES TO ACCESS CONTROLLER SERVING FLOOR.
PP	PUSH PANEL FOR HANDS FREE DOOR OPERATION. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE. PROVIDE (2)6 CONDUCTOR #18AWG SHIELDED, CMP CABLES TO ACCESS CONTROLLER SERVING FLOOR.
REX	REQUEST TO EXIT. PROVIDE (1)4 CONDUCTOR, #18AWG STRANDED COPPER, CMP TO ACCESS CONTROLLER FOR REX DEVICE.
ES	ELECTRIC DOOR STRIKE
ML	MAG LOCK DEVICE - PROVIDE 120V TO THIS LOCATION.
DC	DOOR CONTACTS. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
	PROVIDE POWER RACEWAYS, EMPTY 1" CONDUIT WITH PULL STRING AND BACK BOXES FOR TELECOM, SECURITY AND AV DEVICES AND EQUIPMENT AS REQUIRED.

ACCESS CONTROL - PATHWAY & BOXES

SYMBOL	DESCRIPTION
ACP	FLUSH MOUNTED ACCESS CONTROL CARD READER MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
KP	FLUSH MOUNTED ACCESS CONTROL KEY PAD MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
DR	DOOR RELEASE BUTTON. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
HS	INFRARED HAND SENSOR FOR HANDS FREE DOOR OPERATION. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
PP	PUSH PANEL FOR HANDS FREE DOOR OPERATION. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
REX	REQUEST TO EXIT
ES	ELECTRIC DOOR STRIKE
ML	MAG LOCK DEVICE - PROVIDE 120V TO THIS LOCATION.
DC	DOOR CONTACTS. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
	PROVIDE POWER RACEWAYS, EMPTY 1" CONDUIT WITH PULL STRING AND BACK BOXES FOR TELECOM, SECURITY AND AV DEVICES AND EQUIPMENT AS REQUIRED.

SECURITY

SYMBOL	DESCRIPTION
SEC	SECURITY / INTRUSION DETECTION SECURITY PANEL
EKS	ELECTRONIC KEY SWITCH
GS	GUARD STATION
PIR	PASSIVE INFRARED MOTION SENSOR
PB	PANIC BUTTON
GB	GLASS BREAK SENSOR
LA	LOCAL ALARM
SL	STROBE LIGHT
VM	VIDEO MONITOR
XX (camera)	VIDEO CAMERA
XX (dome)	VIDEO CAMERA IN DOME

VIDEO CAMERA NOMENCLATURE:

FW	FIXED WALL MOUNTED VIDEO CAMERA	PTZ-C	PAN, TILT, ZOOM CEILING MTD
FC	FIXED CEILING MOUNTED	PTZ-W	PAN, TILT, ZOOM WALL MTD

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN ACCORD WITH ALL APPLICABLE ORDINANCES, CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. ALL ELECTRICAL WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL ELECTRICAL INSPECTION AGENCY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY FEES AND PERMITS, INCLUDING THE CERTIFICATE OF ELECTRICAL INSPECTION.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY, ARCHITECT AND/OR ENGINEER SHALL ASSUME NO RESPONSIBILITY FOR WORKMAN'S, OR PEDESTRIAN'S SAFETY. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO INSTRUCT PROCEDURES OR COMPONENTS FOR PROJECT SAFETY.
3. WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS, THE MOST STRINGENT SHALL APPLY.
4. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO CONFLICT WITH ANY NATIONAL, STATE, MUNICIPAL, OR LOCAL LAWS OR REGULATIONS GOVERNING THE WORK INDICATED OR SPECIFIED. THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER SHALL SATISFY ALL SUCH REQUIREMENTS.
5. THE CONTRACT DOCUMENTS ARE COMPRISED OF DRAWINGS AND SPECIFICATIONS. EACH ELECTRICAL BIDDER SHALL VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID PROPOSAL. BIDS SHALL BE BASED ON THE COMPLETE EXAMINATION OF THE DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS. NO CONSIDERATION WILL BE GIVEN ANY CONTRACTOR WHO FAILS TO DO SO.
6. THE WORK UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING OF ALL NECESSARY MATERIALS, TOOLS, AND LABOR FOR A COMPLETE, AND WORKING INSTALLATION AS DEFINED BY THE PLANS AND SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL WARRANT THE WORK INDICATED AND SPECIFIED FOR A PERIOD OF ONE YEAR. THE WORK SHALL FUNCTION AS INTENDED, BE COMPLETE IN ALL DETAILS, AND SHALL INCLUDE ALL INDICATED, SPECIFIED, OR REQUIRED ACCESSORIES FOR A FUNCTIONING SYSTEM.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHT AND POWER AS REQUIRED BY THE GENERAL CONDITIONS OF THE SPECIFICATION.
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. ALL DEVICES PROVIDED BY OTHERS THAT REQUIRE LINE VOLTAGE ELECTRICAL POWER SHALL BE CONNECTED BY THE ELECTRICAL CONTRACTOR. POWER, PHONE, DATA, TV, AND SIMILAR DEVICE OUTLET LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL INTERIOR LAYOUTS, THE GENERAL CONTRACTOR, AND THE OWNER.
9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER'S PROJECT MANAGER PRIOR TO AND FOR SCHEDULING ANY INTERRUPTION OF ANY BUILDING UTILITY.
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITIES AND ARRANGE FOR THE FOLLOWING SERVICES: ELECTRICAL POWER, CABLE TV, AND TELEPHONE SERVICE. THE ELECTRICAL CONTRACTOR SHALL MEET WITH THE REPRESENTATIVES OF THE ELECTRICAL UTILITY & COMCAST TO CONFIRM DETAILS ON THE SERVICE AND METERING. THE ELECTRICAL CONTRACTOR SHALL PAY ALL NECESSARY COSTS, FEES, AND PERMITS INVOLVED IN BRINGING SERVICE TO THE BUILDING.
11. THE ELECTRICAL CONTRACTOR AT THE SITE SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PERTAINING TO THE INSTALLATION OF THE ELECTRICAL SYSTEMS. WHERE A CONTRACTOR UNCOVERS CONDITIONS NOT INDICATED ON THE PLANS OR IN THE SPECIFICATIONS, HE SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH ANY WORK. FAILURE TO NOTIFY THE ARCHITECT WILL MAKE THE CONTRACTOR RESPONSIBLE FOR ALL COSTS AND CONSEQUENCES OF SUCH FAILURE.
12. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE DESIGN/LAYOUT INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL DETERMINE CIRCUITING, ROUTING, WIRING ETC., AS REQUIRED BY THE SITE CONDITIONS, AND ALL APPLICABLE CODES.
13. ALL WIRING SHALL BE CONCEALED IN FINISHED AREAS AS SPECIFIED. WHERE PERMITTED IN THE SPECIFICATIONS, USE OF MC CABLE IN CONCEALED AREAS SHALL BE PER N.E.C., LOCAL CODES, AND INSPECTION AGENCY APPROVAL. OTHERWISE, USE EMT CONDUIT, MINIMUM 3/4" UNLESS NOTED OR SPECIFIED OTHERWISE.
14. THE FOLLOWING CONDUCTORS SHALL BE RUN IN HEAVY WALL CONDUIT:
    14.1. ALL FEEDERS RUN IN SLAB - MAY BY SCHEDULE 40 PVC.
    14.2. WHERE REQUIRED BY THE N.E.C.
    14.3. EXPOSED WIRING ON A ROOF - SEAL PROPERLY.
    14.4. EXTERIOR, ABOVE GRADE WIRING.
15. FOLLOWING FEEDERS SHALL BE IN EMT:
    15.1. BRANCH FEEDERS TO PANELS.
    15.2. BRANCH RACEWAY RUN EXPOSED.
16. TRENCHING AND BACKFILL FOR UNDERGROUND CONDUITS SHALL BE BY THE ELECTRICAL CONTRACTOR.
17. UPON THE COMPLETION OF WORK THE E.C. SHALL PROVIDE ALL PANELBOARDS WITH TYPED PANEL SCHEDULES TO CLEARLY DEFINE THE EQUIPMENT SERVED.
18. UPON THE COMPLETION OF WORK THE E.C. SHALL PROVIDE ALL DISTRIBUTION EQUIPMENT WITH TYPED NAMEPLATES TO CLEARLY DEFINE THE EQUIPMENT SERVED AND RECEPTACLE PLATES WITH CIRCUITS SERVING EACH.
19. CHANNELING OF THE FLOORS SHALL BE MINIMIZED.
20. REFER TO REFLECTED CEILING PLANS FOR THE COORDINATED PLACEMENT OF LIGHTS, DIFFUSERS, SPRINKLERS, AND RETURN AIR GRIDS.
21. E.C. SHALL COORDINATE ALL RECEPTACLE AND LIGHT FIXTURES LOCATIONS WITH CASEWORK AND THE OWNERS FIXTURES LAYOUT PLAN WHICH WILL BE DIMENSIONED.
22. ALL HOMERUNS WITH MORE THAN SIX (6) TOTAL CONDUCTORS SHALL BE A MINIMUM OF NO. 10 THWN WIRE UNLESS SPECIFICALLY SIZED OTHERWISE.
23. ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
24. CONTRACTOR SHALL REMOVE DEMOLITION DEBRIS COMPLETELY. CONTRACTOR SHALL SCHEDULE WITH THE OWNER THE TIME, LOCATION, ELEVATOR AND HAULING ROUTE.
25. CONTRACTOR SHALL CLEAN UP ALL DEBRIS AT THE END OF EACH WORK DAY.
26. EXACT COUNTS/QUANTITIES FOR CONTRACT PURPOSES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND INCLUDED AS PART OF THE BASE BID.
27. REFER TO ARCHITECTURAL DRAWING FOR ALL WALL HEIGHTS.
28. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR, PRIOR TO ROUGH-IN, E.C. SHALL ALSO INCLUDE COORDINATION WITH DEVICES BY M.C., WIRING REQUIREMENTS, INTERCONNECTIONS, AND TERMINATIONS AND PROVIDE AS REQUIRED.
29. ALL CONDUITS RUN IN EXPOSED AREAS SHALL BE MOUNTED TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEEL. THIS APPLIES FOR ALL BRANCH CIRCUIT AND FEEDER CONDUITS.
30. ALL HOLES AND OPENINGS CREATED TO EXTEND THE ELECTRICAL SYSTEMS THROUGH FLOORS AND FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED.
31. DURING THE BIDDING PROCESS, ELECTRICAL CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES (GENERAL, HVAC, AND PLUMBING). ALL ITEMS REQUIRING POWER INDICATED ON THESE DRAWINGS BUT NOT INDICATED ON THE ELECTRICAL DRAWINGS SHALL BE CONSIDERED A PART OF THE ELECTRICAL CONTRACTORS WORK. THIS WORK SHALL BE INSTALLED AS PER NEC AT NO ADDITIONAL COST TO THE OWNER
32. WHERE CONDUIT SIZES HAVE BEEN OMITTED, THE CONTRACTOR SHALL INSTALL THE CORRECT SIZES REQUIRED BY THE N.E.C. AS DETERMINED BY THE NUMBER OF WIRES TO BE INSTALLED. WHERE THE NUMBER AND OR SIZES OF HAVE BEEN OMITTED, THE CONTRACTOR SHALL INSTALL THE REQUIRED NUMBER AND OR SIZES AS DETERMINED BY THE EQUIPMENT REQUIREMENTS OR FROM ADJACENT SECTIONS AND CIRCUIT NUMBERS.
33. WIRE SIZE FOR BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP CALCULATIONS AS REQUIRED BY NEC. IF CIRCUIT RUN EXCEEDS 100FT. IN WIRE LENGTH, NEXT WIRE SIZE (#10) SHALL BE USED.
34. STARTERS, COMBINATION STARTERS, CONTRACTORS, ETC.. FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. ALL POWER WIRING AND CONDUIT TO EQUIPMENT TERMINALS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. POWER TO MECHANICAL EQUIPMENT SHALL BE TURNED ON ONLY BY THE MECHANICAL CONTRACTOR. MECHANICAL NAME PLATE DATA SHALL NOT BE COVERED BY ELECTRICAL DEVICES.
35. THE ELECTRICAL CONTRACTOR SHALL FURNISH SUBMITTALS IN ACCORDANCE WITH THE SPECIFICATIONS. ALL SUBMITTALS SHALL BE REVIEWED AND STAMPED BY THE ENGINEER PRIOR TO INSTALLATION.
36. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR THE ENTIRE PROJECT AS DEFINED IN THE SPECIFICATIONS
37. THIS CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF OF ALL THE EXISTING CONDITIONS, WHICH IN ANY WAY WILL AFFECT THE EXECUTION OF HIS WORK AND THE REQUIREMENTS OF THIS CONTRACT AS SHOWN OR REASONABLY INFERRED ON THE DRAWINGS AND PRODUCT SPECIFICATIONS.

ELECTRICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A/AMP	AMPERE	G, GND,GRD	GROUND	NFPA	NATIONAL FIRE PROTECTION
AFCI	ARC FAULT INTERRUPTER	GC	GENERAL CONTRACTOR		ASSOCIATION
AFF	ABOVE FINISHED FLOOR	GEN	GENERATOR	NIC	NOT IN THIS CONTRACT
AFG	ABOVE FINISHED GRADE	GFI	GROUND FAULT INTERRUPTER	NM	NON-METTALIC
AHJ	AUTHORITY HAVING JURISDICTION	GTB	GROUND TERMINAL BOX	NO	NORMALLY OPEN
AL	ALUMINUM	HID	HIGH INTENSITY DISCHARGE	NTS	NOT TO SCALE
ANSI	AMER. NATIONAL STANDARDS INSTITUTE	HP	HORSE POWER	OC	ON CENTER
ASA	AMERICAN STANDARDS ASSOCIATION	HPF	HIGH POWER FACTOR	OEM	ORIGINAL EQUIPMENT MANUFACTURER
ASTM	AMER. SOCIETY OF TESTING MATERIALS	HR	HOMERUN	OSHA	OCCUPATIONAL SAFETY AND HEALTH
AWG	AMERICAN WIRE GAUGE	HTR	HEATER		ADMINISTRATION
AT	AMPERE TRIP	HVAC	HEATING, VENTILATION, AIR	P	POLE
ATS	AUTOMATIC TRANSFER SWITCH		CONDITIONING CONTRACTOR	PBOX	PULL BOX
BL	BLANK	HV	HIGH VOLTAGE	PC	PHOTOCELL
BKR	BREAKER	HZ	HERTZ	P.C.	PLUMBING CONTRACTOR
C	CONDUIT	ICEA	INTERNATIONAL CABLE ENGR. ASSOC.	PH / Ø	PHASE
CB, C/B	CIRCUIT BREAKER	IEEE	INSTITUTE OF ELECTRICAL AND	PNL	PANEL
CKT BKR	-		ELECTRONIC ENGINEERS	POS	POSITION
CKT	CIRCUIT	IES	ILLUMINATING ENGINEERING SOCIETY	PRI	PRIMARY
CCTV	CLOSED CIRCUIT TV	IN	INCH	PWR	POWER
CLG	CEILING	INCAN	INCANDESCENT	REC / RECPT	RECEPTACLE
CO	CONVENIENCE OUTLET	IR	INFRA-RED	RGS	RIGID GALVANIZED STEEL
CONN	CONNECTION	JB/JBOX	JUNCTION BOX	RMC	RIGID GALVANIZED METAL CONDUIT
CU	COPPER	K	THOUSAND	RT	RAIN TIGHT
DB	DIRECT BURIAL	KVA	KILOVOLT-AMPERE	SCHED	SCHEDULE
DISC	DISCONNECT	KW	KILOWATT	SEC	SECONDARY
DN	DOWN	KWH	KILOWATT HOUR	SIG	SIGNAL
DWG	DRAWING	LA	LIGHTING ARRESTER	SM	SURFACE MOUNTED
EA	EACH	LCP	LIGHTING CONTROL PANEL	SMR	SURFACE MOUNTED RACEWAY
E.C.	ELECTRICAL CONTRACTOR	LED	LIGHT EMITTING DIODE	SP	SPARE
EF	EXHAUST FAN	LTS	LIGHTS	SS	SAFETY SWITCH
EH	ELECTRIC HEAT	LTG	LIGHTING	SW	SW
EIA	ELECTRONIC INDUSTRIES ASSOC.	LV	LOW VOLTAGE	SWBD	SWITCHBOARD
EMT	ELECTRIC METALLIC TUBING	MC	METAL CLAD	TEL / TELE	TELEPHONE
XP	EXPLOSION PROOF	M.C.	MECHANICAL CONTRACTOR	TL	TWIST LOCK
E, EM	EMERGENCY	MCB	MAIN CIRCUIT BREAKER	TP	TAMPER PROOF
ELEC	ELECTRIC	MCC	MOTOR CONTROL CENTER	TX / XFMR	TRANSFORMER
EMT	ELECTRIC METALLIC TUBING	MDP	MAIN DISTRIBUTION PANEL	TTB	TELEPHONE TERMINAL BOARD
EQ/EQPM	EQUIPMENT	MFR	MANUFACTURER	TV	TELEVISION
EUH	ELECTRIC UNIT HEATER	MH	MANHOLE	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	MLO	MAIN LUGS ONLY	UH	UNIT HEATER
EX	EXISTING	MISC	MISCELLANEOUS	UL	UNDERWRITERS' LABORATORIES, INC
F	FIXTURE	MTD	MOUNTED	UNO	UNLESS NOTED OTHERWISE
FA	FIRE ALARM	MTG HGT	MOUNTING HEIGHT	V	VOLTAGE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	MTR	MOTOR	VT	VAPOR TIGHT
FACP	FIRE ALARM CONTROL PANEL	N/A	NOT APPLICABLE	W	WIRE; WATT
FCU	FAN COIL UNIT	NC	NORMALLY CLOSED	W/	WITH
FDR	FEEDER	NF	ON-FUSED SAFETY SWITCH	W/O	WITHOUT
FIXT	FIXTURE	NEC	NATIONAL ELECTRIC CODE	WP	WEATHER PROOF
FL	FLOOR	NEMA	NATIONAL ELECTRICAL	WT	WATER TIGHT
FLUOR	FLUORESCENT		MANUFACTURERS ASSOCIATION		
FSS	FUSED SAFETY SWITCH				
FT	FEET				

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Checked JCA Date 05/12/23
Project No. 05607-0028

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CFVH HARNETT MOB - Core & Shell

225 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT: 8403-225630

Δ	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL DATA SHEET

ORIG SUBMISSION: 2023-05-12

SHEET: E002

100% CONSTRUCTION DOCUMENTS

5/17/2023 3:59:59 PM

ELECTRICAL LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOGUE NUMBER	MOUNTING	VOLTAGE	WATTS	LAMP TYPE	COLOR TEMP	LUMENS	MINIMUM CRI	REMARKS
B	36" TALL LED BOLLARD	Performance Lighting	CBD36-D-N-S-R-A-F-W-R	BOLLARD	277 V	14 W	LED	4000K	1148	80	
C	4' LED ROUND CEILING DISK	Lithonia	LDR6-D-7-N-D-M-N-S-R-W-R-D-L-*-*-D-*-L	Recessed	277 V	18 W	LED	2000K	1575.2	80	WET LOCATION LISTED
D4	4' DIRECT/INDIRECT LINEAR LIGHT BAR PENDANT	Mark Architectural	SL-E-4-CP-4-T-N-7-D-M-D-E-N-D-H-D-L-W-C-B-N-T-HS	SURFACE/RECESSED	277 V	34 W	LED	2000K	2400	80	WET LOCATION LISTED
D5	17' DIRECT/INDIRECT LINEAR LIGHT BAR PENDANT	Mark Architectural	SL-E-4-CP-17-T-N-7-D-M-D-E-N-D-H-D-L-W-C-B-N-T-HS	SURFACE/RECESSED	277 V	72 W	LED	2000K	7200	80	WET LOCATION LISTED
E1	LED EXIT SIGN – SINGLE FACE	Lithonia	EDGE-S-G-G	CEILING	277 V	1 W	LED				
E2	LED EXIT SIGN – DOUBLE FACE	Lithonia	EDGE-D-G-G	CEILING	277 V	1 W	LED				
F1	EXTERIOR LED WALL PACK	Performance Lighting	CLD-D-D-N-D-T-7-N-D-N-M-N	WALL	277 V	30 W	LED	4000K	2200	80	
F2	EXTERIOR LED WALL PACK	Performance Lighting	CLD-D-D-N-D-T-4-N-D-N-M-N	WALL	120 V	18 W	LED	4000K	1500	80	
H	SQUARE LED DOWNLIGHT	Cooper Lighting	LDS6LA-D-N-D-N-D-T-L-N-D-N-R-F-T-D-R-F-W	RECESSED	277 V	20 W	LED	2000K	2000	90	WET LOCATION LISTED, MINIMUM STARTING TEMPERATURE OF -40 F
M	LED PARKING LOT POLE	Lithonia	RSX1-E-DLP-D-M-R-D-M-P-D3-L-CP-P-M-D-R-D	POLE	277 V	72 W	LED	4000K	8840		
P	WALL MOUNTED WRAPAROUND	Lithonia	FSXW-A-W-D1-L-M-D-R-D-M-P-D3-L-*-C-D-*-N-D-C-D	WALL	277 V	34 W	LED	3000K	4000	80	WET LOCATION LISTED
S4	4' LED STRIP LIGHT	Lithonia	2L-1-D-L-D-D-D-L-M-P-D-M-V-D-L-*-D-N-D-D-D-N-D-H	SUSPENDED	277 V	32 W	LED	3000K	3950	80	
S8	8' LED STRIP LIGHT	Lithonia	2L-1-D-L-D-D-D-L-M-P-D-M-V-D-L-*-D-N-D-D-D-N-D-H-1	SUSPENDED	277 V	60 W	LED	3000K	8077	80	
V	WALL MOUNTED LINEAR DIRECTIONAL EXIT	Focal Point	FSXWD-N-F-LR-*-1-W-D-N-D-S-B-F-D-N-D-T-C-N-D-E-X-F-D-N-W-R-T	WALL	277 V	7.6 W	LED	4000K	400	80	SAMPLE LOOK FOR ACCEPTANCE
Z	LINEAR COVE RGB	Lumitex	2L-1-D-L-D-D-D-L-M-P-D-M-V-D-L-*-D-N-D-D-D-N-D-H	SURFACE	277 V	198/ W	LED	3000K	11088	80	WET LOCATION LISTED, OPERATING TEMPE -40 TO 140F, 277V INPUT VOLTAGE STEPPED DOWN BY CONTROLLER

1. MANUFACTURER AND CATALOG NUMBERS LISTED ARE PRIMARY SPECIFICATION AND INDICATE DESIGN INTENT. ALTERNATE MANUFACTURER LUMINAIRES SHALL BE SUBMITTED FOR APPROVAL NO LATER THAN 15 DAYS PRIOR TO BID OR WILL NOT BE CONSIDERED. LUMINAIRES SHALL MEET CONSTRUCTIBILITY, OPERABILITY, PHOTOMETRIC, AESTHETIC, ETC., CRITERIA SET FORTH BY THE MANUFACTURER AND CATALOG NUMBERS LISTED + AS DESCRIBED/HELP REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE, AT NO COST, A SAMPLE OF EACH PROPOSED SUBSTITUTION AND EACH SPECIFIED LUMINAIRE FOR EVALUATION. ALL REQUESTS FOR SUBSTITUTIONS SHALL BE COMPLETED NO LESS THAN 10 DAYS PRIOR TO THE BID DATE.
2. CONTRACTOR SHALL COORDINATE MOUNTING REQUIREMENTS BASED ON FIELD CONDITIONS AND COORDINATION WITH ARCHITECTURAL INTERIOR PRIOR TO ORDERING, ROUGH-IN, AND INSTALLATION. COORDINATE WITH ENGINEER AND ARCHITECT AS NECESSARY.
3. PROVIDE EXIT SIGNS WITH DIRECTIONAL CHEVRONS (ARROWS) AS SHOWN ON PLANS.
4. ALL LUMINAIRES SHALL BE OLD LISTED UNLESS SPECIFICALLY NOTED OTHERWISE.

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Checked: JCA Date: 05/12/23
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LS3P PROJECT 0402-225630

△	DATE	DESCRIPTION

SHEET NAME:
LUMINAIRE SCHEDULE

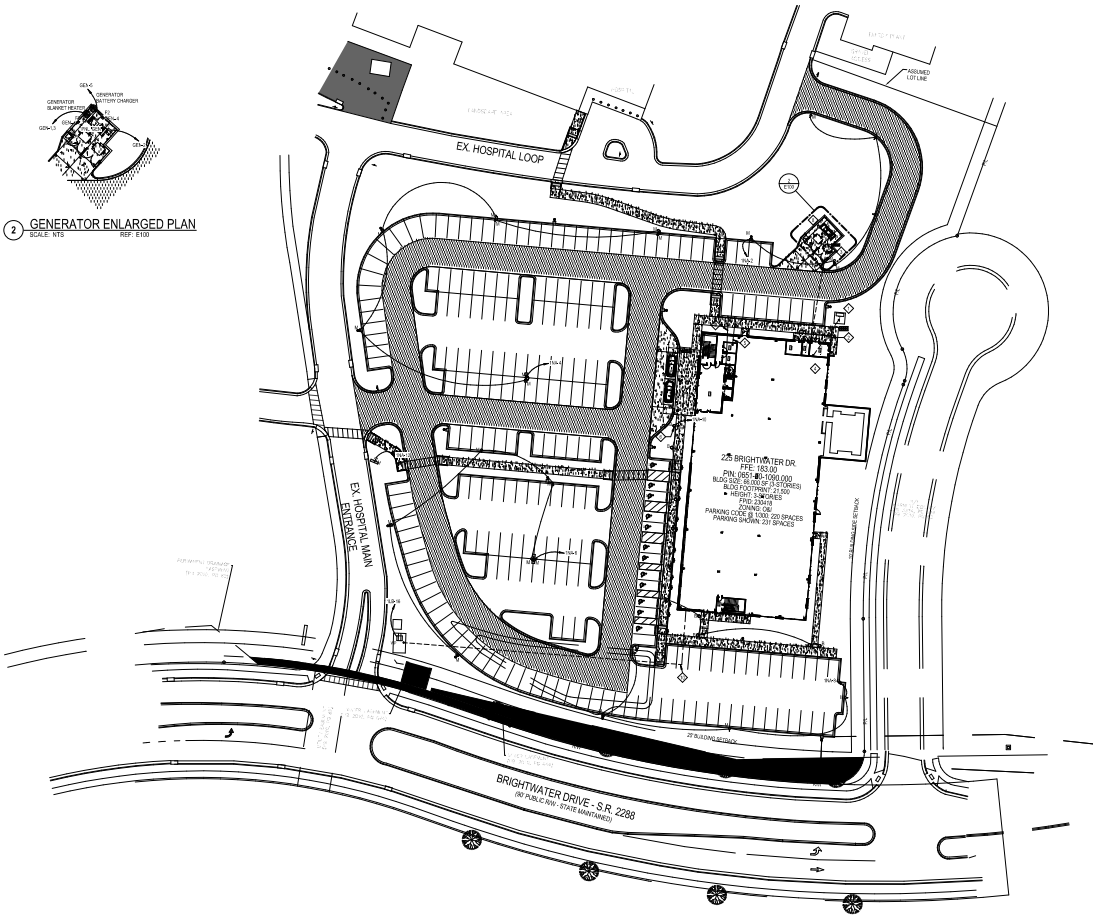
ORIG SUBMISSION: 2023-05-12

SHEET:
E003

100% CONSTRUCTION DOCUMENTS

05/12/2023 3:58:58 PM

2 GENERATOR ENLARGED PLAN
SCALE: NTS REF: E100



1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

E100 - KEYED NOTES

1. PADMOUNTED DISTRIBUTION TRANSFORMER WILL BE PROVIDED BY UTILITY. PROVIDE TRANSFORMER PAD PER DUKE ENERGY REQUIREMENTS.
2. PROVIDE 8-WAY SERVICE DUCTBANK (SEVEN (7) 4" CONDUITS , AND ONE (1) 4" CONDUIT EMPTY WITH PULLSTRING) FROM PADMOUNTED TRANSFORMER SECONDARY COMPLETELY TO SWBD 'MSWBD'. COORDINATE LOCATION OF ENTRY TO BUILDING WITH LOCATION OF SWBD 'MSWBD'. COORDINATE CONDUIT ENTRY INTO SECONDARY COMPARTMENT OF TRANSFORMER WITH UTILITY. REFERENCE DUKE ENERGY -REQUIREMENTS FOR ELECTRICAL SERVICE AND METER INSTALLATIONS (LATEST EDITION) FOR COORDINATION. THE SERVICE CONDUCTORS ON THE SECONDARY SIDE OF THE PADMOUNTED TRANSFORMER SHALL BE TERMINATED IN THE TRANSFORMER BY THE UTILITY. COORDINATE WITH UTILITY.
3. PROVIDE 5-WAY SERVICE DUCTBANK (TWO (2) 3" CONDUITS) FROM EMERGENCY GENERATOR COMPLETELY TO TRYSTAR DOCKING STATION. (ONE(1) 3" CONDUITS) FROM EMERGENCY GENERATOR PANEL GEN TO PANEL LRH. (ONE(1) 3" CONDUITS) FROM EMERGENCY GENERATOR TO ATS-E, ATS-H, AND ATS-DS FOR GENERATOR START UP CONTROLS. AND (ONE(1) 3" CONDUIT) EMPTY WITH PULLSTRING .COORDINATE LOCATION OF STUB-UPS OUTSIDE OF THE BUILDING WITH LOCATION OF DOCKING STATION. COORDINATE CONDUIT ENTRY INTO GENERATOR WITH MANUFACTURERS RECOMMENDED PRACTICE.
4. BUILDING MAIN SERVICE ENTRANCE SWITCHBOARD 'MSWBD'.
5. PROVIDE (2) 4" CONDUITS FROM PROPERTY 'TELECOM SERVICE POINT' TO DATA ROOM 102 FOR DATA, CABLE, ETC. COORDINATE WITH CIVIL AND TELECOM PROVIDERS.
6. CONTRACTOR SHALL FURNISH AND INSTALL NEW OUTDOOR BOLLARD LIGHTS TYPE 'B' AT LOCATIONS SHOWN ON DRAWINGS. FIXTURES AND DRIVERS SHALL BE RATED FOR TEMPERATURES BELOW 32 DEGREES FAHRENHEIT. TYPICAL FOR ALL BOLLARDS
7. COORDINATE LOCATION OF PANEL 'GEN' WITH GENERATOR MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN.
8. EMERGENCY GENERATOR WITH WEATHERPROOF ENCLOSURE SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR PER SPECIFICATION 26 32 13,CATERPILLAR C9 DIESEL GENERATOR SET IS BASIS OF DESIGN.
9. CONTRACTOR SHALL PROVIDE (1) 4" CONDUIT FROM TELECOM SERVICE PROVIDER CONNECTION POINT TO EACH ELEVATOR. COORDINATE WITH TELECOM PROVIDER.
10. CONTRACTOR SHALL PROVIDE (ONE(1) 1" CONDUIT) FROM BUILDING FACP TO TAMPER FLOW SWITCHES LOCATED AT STREET MAIN.

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LS3P PROJECT 0402-225630

#	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL SITE PLAN

ORIG SUBMISSION: 2023-05-12

SHEET:
E100

100% CONSTRUCTION DOCUMENTS

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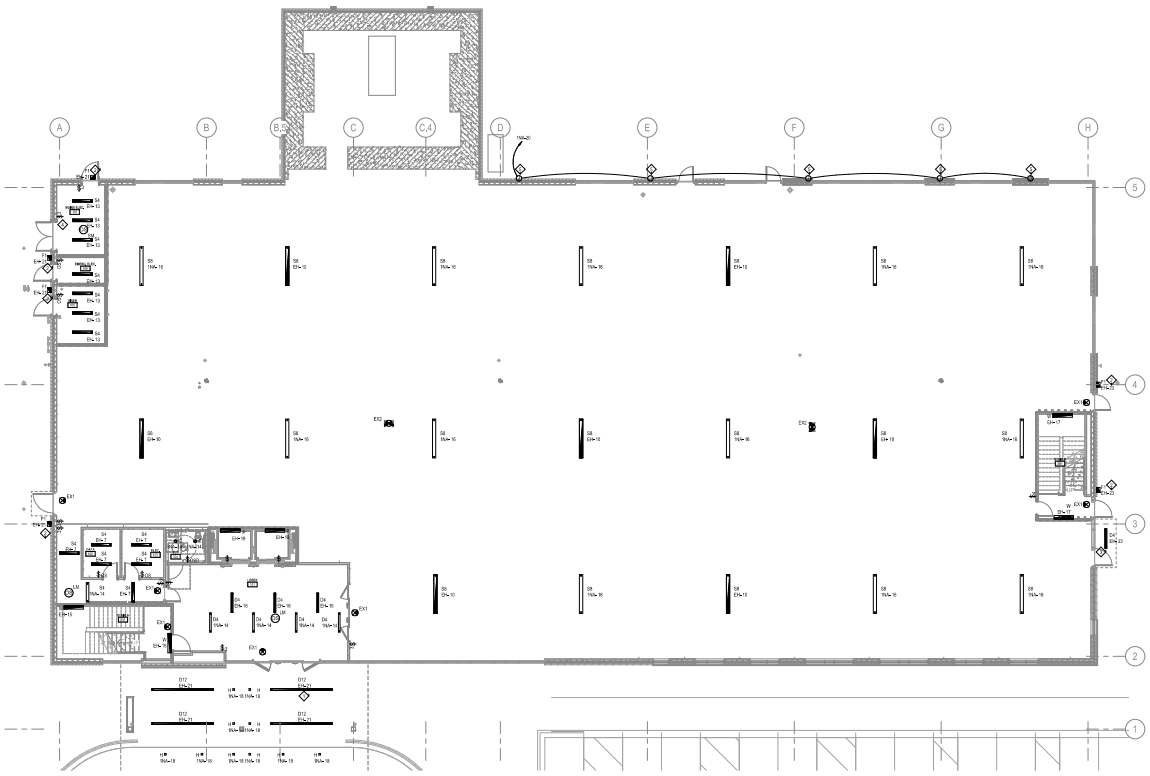

1 LIGHTING FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO SHEET E003 FOR LUMINAIRE SCHEDULE.
2. THE LIGHTING CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED WITH PROVISIONS TO ADD ADDITIONAL LIGHTING FIXTURES DURING THE UPFIT PHASE.
3. EXIT SIGN SHALL BE WIRED AHEAD OF SWITCHING/DIMMING CIRCUITS.

E101 - KEYED NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL RECESSED OUTDOOR LIGHTING IN CANOPY AREA, FIXTURES AND DRIVERS SHALL BE RATED FOR TEMPERATURES BELOW 32 DEGREES FAHRENHEIT.
2. CONTRACTOR SHALL FURNISH AND INSTALL NEW OUTDOOR WALLPACK FIXTURE TYPE 'F1' AT LOCATIONS SHOWN. FIXTURES AND DRIVERS SHALL BE RATED FOR TEMPERATURES BELOW 32 DEGREES FAHRENHEIT.
3. CONTRACTOR SHALL FURNISH AND INSTALL SURFACE MOUNTED OUTDOOR LIGHTING IN CANOPY AREA, FIXTURES AND DRIVERS SHALL BE RATED FOR TEMPERATURES BELOW 32 DEGREES FAHRENHEIT.
4. PROVIDE UL 924 LISTED RELAY CONTROL PANEL - ACUITY NLIGHT ARP INTERCONNECT NLT 16-RELAY ENCLOSURE OR EQUAL. MVOLT, HINGED LOCKING COVER, SURFACE MOUNT, AND DIGITAL TIME CLOCK (DTC) TO SUPPORT EXTERIOR LIGHTING. RELAYS 1 TO 8 SHALL SWITCH EXTERIOR LIGHTING AND PARKING LOT LIGHTING ON A PROGRAMMABLE TIMED BASIS. RELAYS 9 TO 16 SHALL BE SPARES FOR FUTURE USE. PROVIDE ALL NECESSARY COMPONENTS AND CABLING FOR COMPLETELY FUNCTIONAL SYSTEM. PROVIDE FULL SUBMITTAL SHOWING ALL REQUIRED DEVICES, ETC. NECESSARY FOR COMPLETE AND FUNCTIONAL INSTALLATION.
5. JUNCTION BOX IN WALL FOR FUTURE LIGHTING.

FIRE RATED WALL LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

1/8"=1'-0" 0 4' 8' 12'

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Checked: JCA Date: 05/12/23
Project No. 0560140.08

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CFVH HARNETT MOB - Core & Shell

226 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL - NEW WORK PLAN - LIGHTING - LEVEL 1

ORIG SUBMISSION: 2023-05-12

SHEET: **E101**

100% CONSTRUCTION DOCUMENTS

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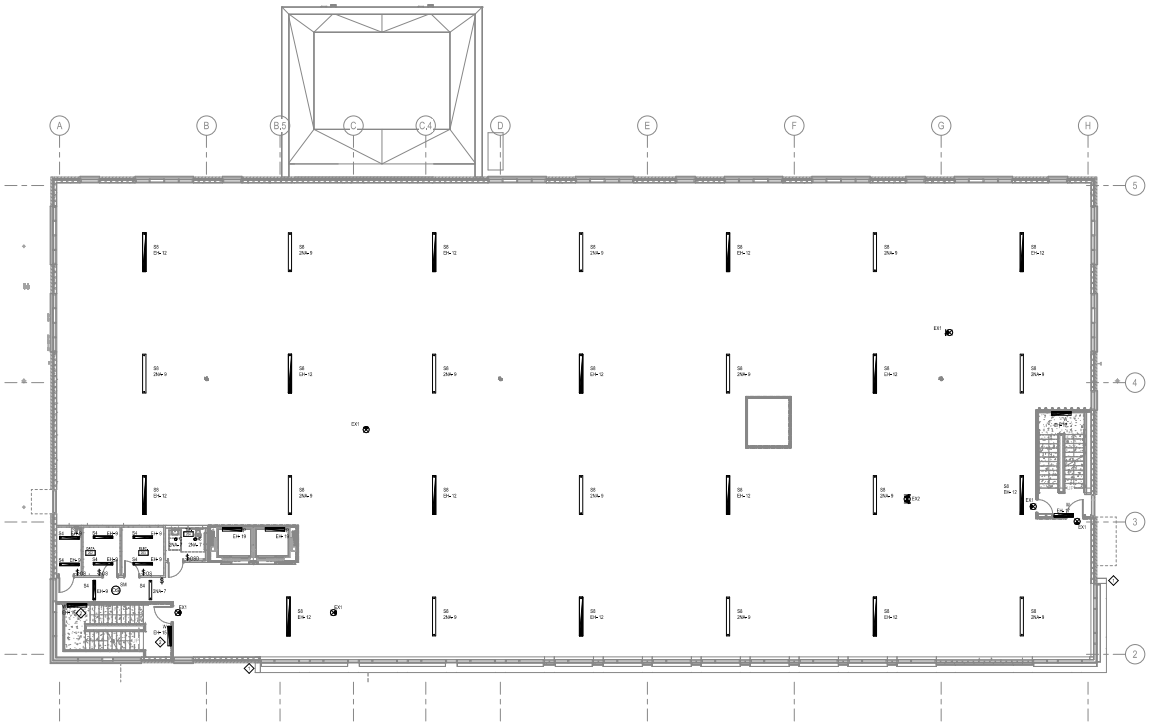

1 LIGHTING SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO SHEET E900 FOR LUMINAIRE SCHEDULE.
2. THE LIGHTING CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED WITH PROVISIONS TO ADD ADDITIONAL LIGHTING FIXTURES DURING THE UPFIT PHASE.
3. EMT BRANCH SHALL BE WIRED AHEAD OF SWITCH/BRANCHING CIRCUITS.

KEYED NOTES:

1. VERTICAL CONTINUATION OF FIXTURE "E" AT JAMB, SEE 1E100 FOR HORIZONTAL CONTINUATION.
2. FIXTURE IS TEMPORARY, FINAL FIXTURE TO BE PART OF THE FIT-UP.

FIRE RATED WALL LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

1/8"=1'-0" 0 4' 8' 12' 16'

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LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL - NEW WORK PLAN - LIGHTING - LEVEL 2

ORIG SUBMISSION: 2023-05-12

SHEET: **E102**

100% CONSTRUCTION DOCUMENTS

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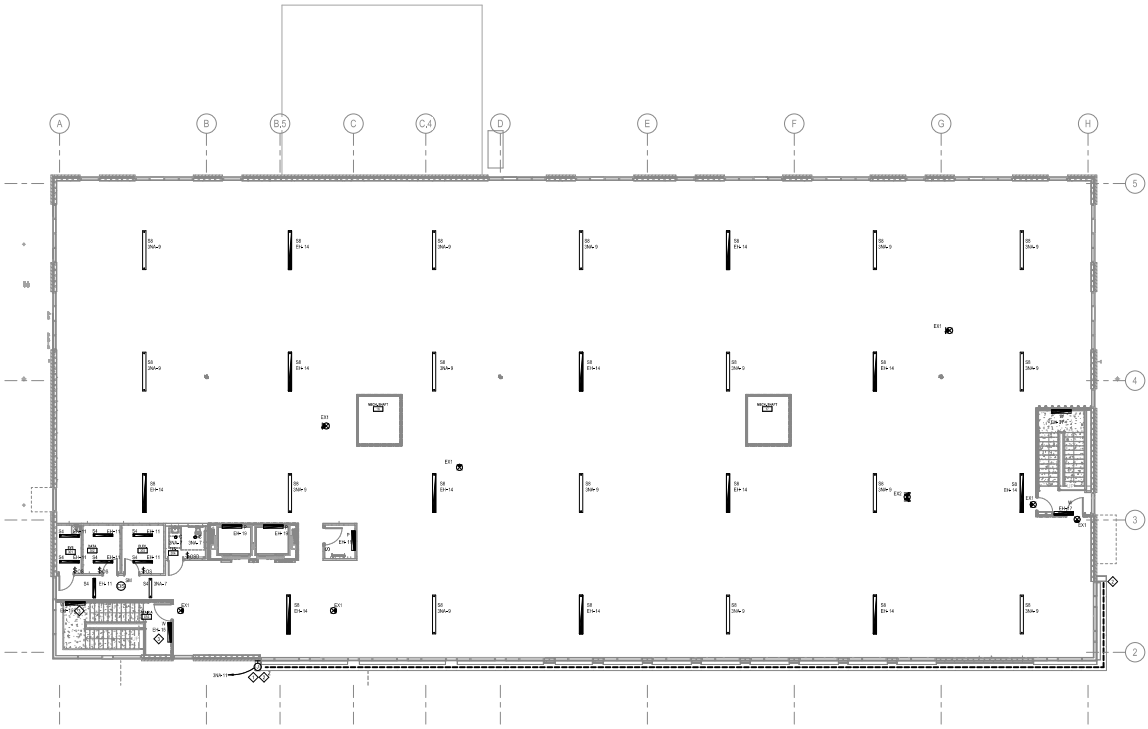

1 LIGHTING THIRD FLOOR PLAN
SCALE 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. REFER TO SHEET E003 FOR LUMINAIRE SCHEDULE.
2. THE LIGHTING CONTROL SYSTEM SHALL BE FURNISHED AND INSTALLED WITH PROVISIONS TO ADD ADDITIONAL LIGHTING FIXTURES DURING THE UPFIT PHASE.
3. EXIT SIGN SHALL BE WIRED AHEAD OF SWITCHING/DIMMING CIRCUITS.

KEYED NOTES:

1. JUNCTION BOX FOR EXTERIOR DAYLIGHT CONTROLLER.
2. FIXTURE CONTINUES DOWN VERTICALLY AT JAMB.
3. FIXTURE IS TEMPORARY, (TYP.) WITH PLAN TO BE PART OF THE FIT-UP.

FIRE RATED WALL LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

1/8"=1'-0" 0 4' 8' 12'

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LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL - NEW WORK PLAN - LIGHTING - LEVEL 3

ORIG SUBMISSION: 2023-05-12

SHEET: **E103**

100% CONSTRUCTION DOCUMENTS

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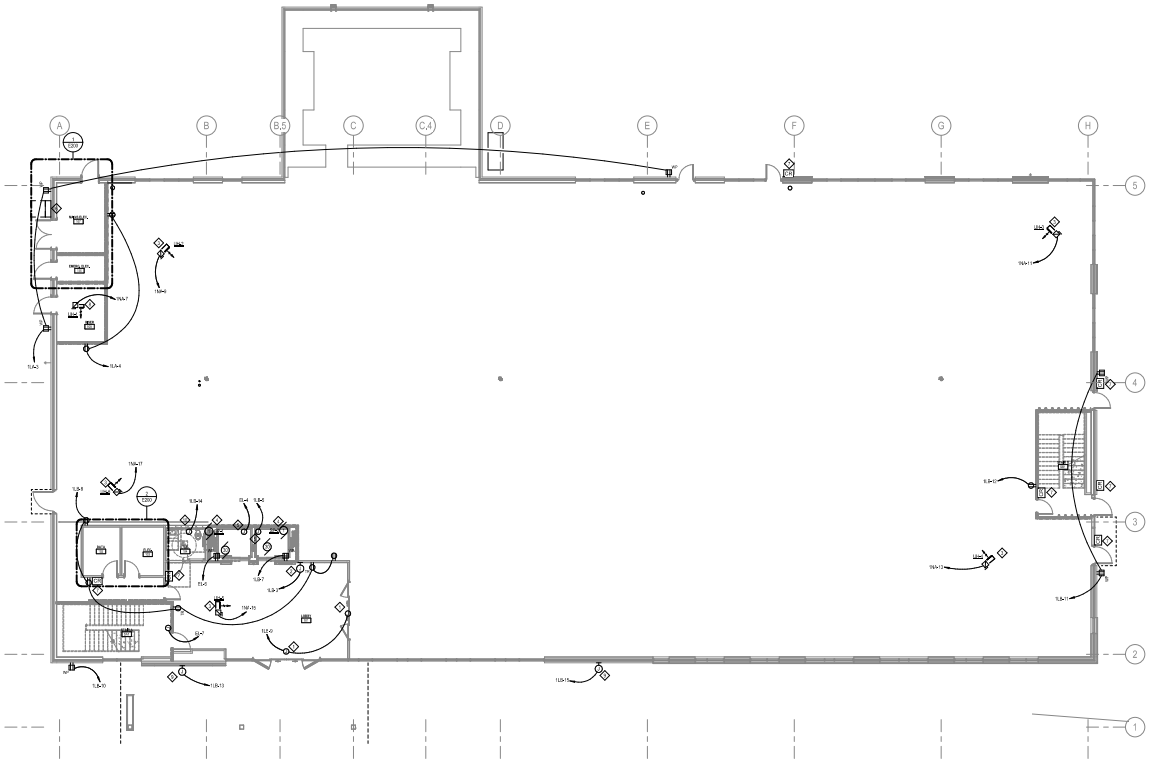

1 POWER & SYSTEMS FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

E111 - KEYED NOTES

1. PROVIDE 120V/1P POWER TO AUTOMATIC SLIDING DOOR.
2. JUNCTION BOX FOR BUILDING DIRECTORY. COORDINATE LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
3. UNIT HEATER(S) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE A 50A FUSED NEMA 1 DISCONNECT, ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND CONDUCTORS, COORDINATE WITH MECHANICAL AND CONNECT AS REQUIRED.
4. PROVIDE 120/1P POWER TO ELEVATOR SUMP PUMP VIA CONTROL PANEL IN ELECTRICAL ROOM. ELECTRICAL FROM PANEL TO MOTOR BY PLUMBING.
5. PROVIDE 120/1P POWER TO ELEVATOR LIGHTING AND ACCESSORIES..
6. PROVIDE 600A (WALLMOUNTED TRYSTAR DOCKING STATION)SEE RISER DIAGRAM ON E300 AND SPECIFICATION 26 36 00 FOR MORE INFORMATION.
7. CONTRACTOR SHALL FURNISH AND INSTALL 3/4" CONDUIT FOR CARD READERS FROM JUNCTION BOXES AT LOCATIONS SHOWN TO DATA ROOM 102. CARD READERS SHALL BE FURNISHED AND INSTALLED BY OTHERS. COORDINATE WITH OWNER
8. UNIT HEATER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE A 15A FUSED NEMA 1 DISCONNECT, ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND CONDUCTORS, COORDINATE WITH MECHANICAL AND CONNECT AS REQUIRED.
9. JUNCTION BOX FOR EXTERIOR BUILDING SIGNAGE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
10. JUNCTION BOX FOR PLUMBING FIXTURES POWER. PLUMBING CONTRACTOR TO PROVIDE EQUIPMENT AND CONNECTIONS ON LOAD SIDE.

FIRE RATED WALL LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

1/8"=1'-0" 0' 4' 8' 12'

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LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL - NEW WORK PLAN - POWER - LEVEL 1

ORIG SUBMISSION: 2023-05-12

SHEET: **E111**

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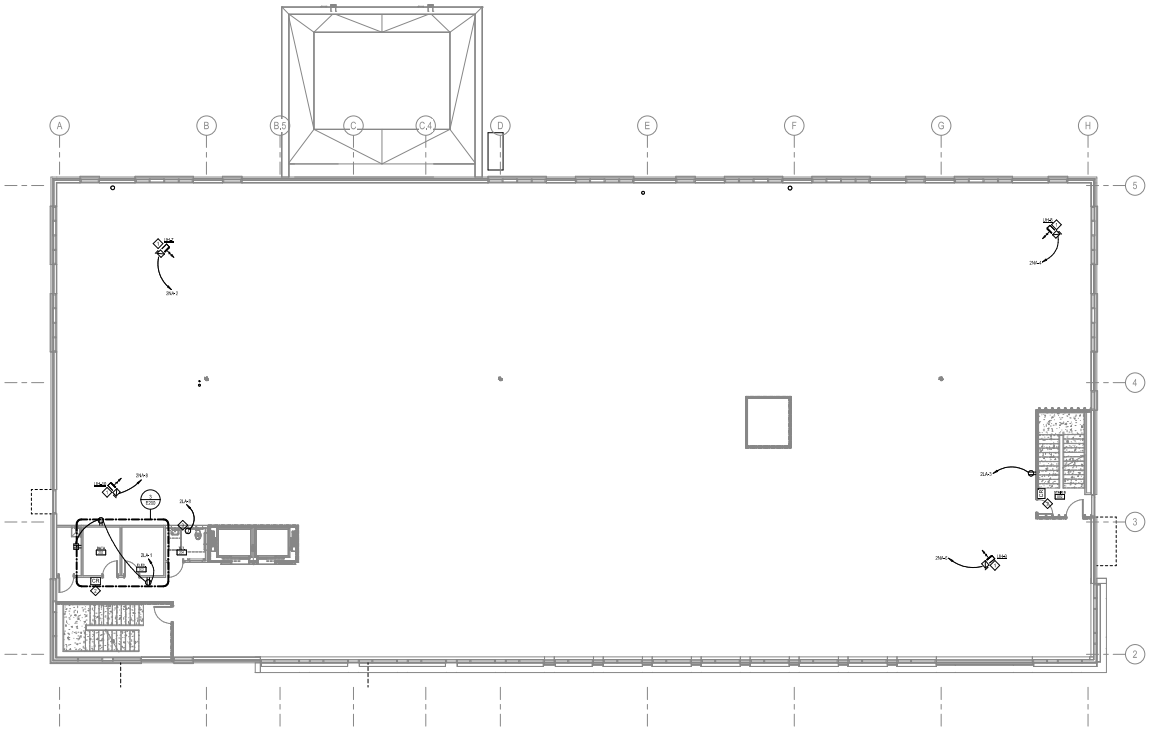

1 POWER & SYSTEMS SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

E112 - KEYED NOTES

1. UNIT HEATER(S) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE A 50A FUSED NEMA 1 DISCONNECT. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND CONDUCTORS, COORDINATE WITH MECHANICAL AND CONNECT AS REQUIRED.
2. CONTRACTOR SHALL FURNISH AND INSTALL 3/4" CONDUIT FOR CARD READERS FROM JUNCTION BOXES AT LOCATIONS SHOWN TO DATA ROOM 202. CARD READERS SHALL BE FURNISHED AND INSTALLED BY OTHERS. COORDINATE WITH OWNER.
3. JUNCTION BOX FOR PLUMBING FIXTURES POWER. PLUMBING CONTRACTOR TO PROVIDE EQUIPMENT AND CONNECTIONS ON LOAD SIDE.

FIRE RATED WALL LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

1/8"=1'-0" 6' 4' 0' 4' 12'

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LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL - NEW WORK PLAN - POWER - LEVEL 2

ORIG SUBMISSION: 2023-05-12

SHEET: E112

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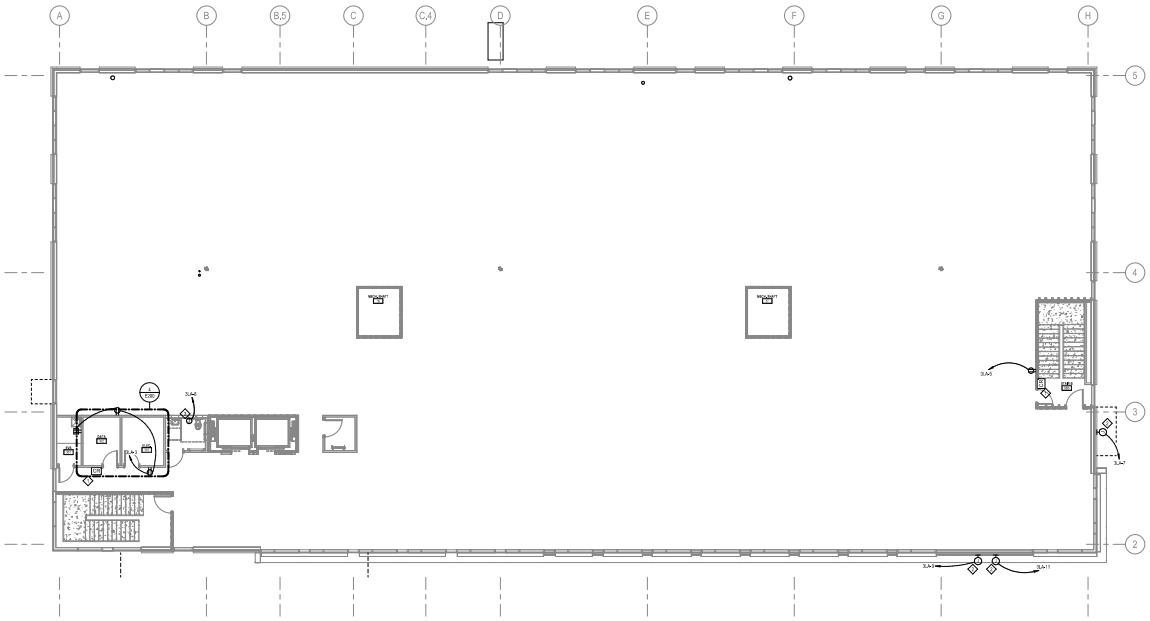

1 POWER & SYSTEMS THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

E113 - KEYED NOTES

1. CONTRACTOR SHALL FURNISH AND INSTALL 3/4" CONDUIT FOR CARD READERS FROM JUNCTION BOXES AT LOCATIONS SHOWN TO DATA ROOM 302. CARD READERS SHALL BE FURNISHED AND INSTALLED BY OTHERS. COORDINATE WITH OWNER
2. JUNCTION BOX FOR EXTERIOR BUILDING SIGNAGE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGHIN.
3. JUNCTION BOX FOR PLUMBING FIXTURES POWER, PLUMBING CONTRACTOR TO PROVIDE EQUIPMENT AND CONNECTIONS ON LOAD SIDE.

FIRE RATED WALL LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

1/8"=1'-0" 0 8" 16" 32"

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△	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL - NEW WORK PLAN - POWER - LEVEL 3

ORIG SUBMISSION: 2023-05-12

SHEET: **E113**

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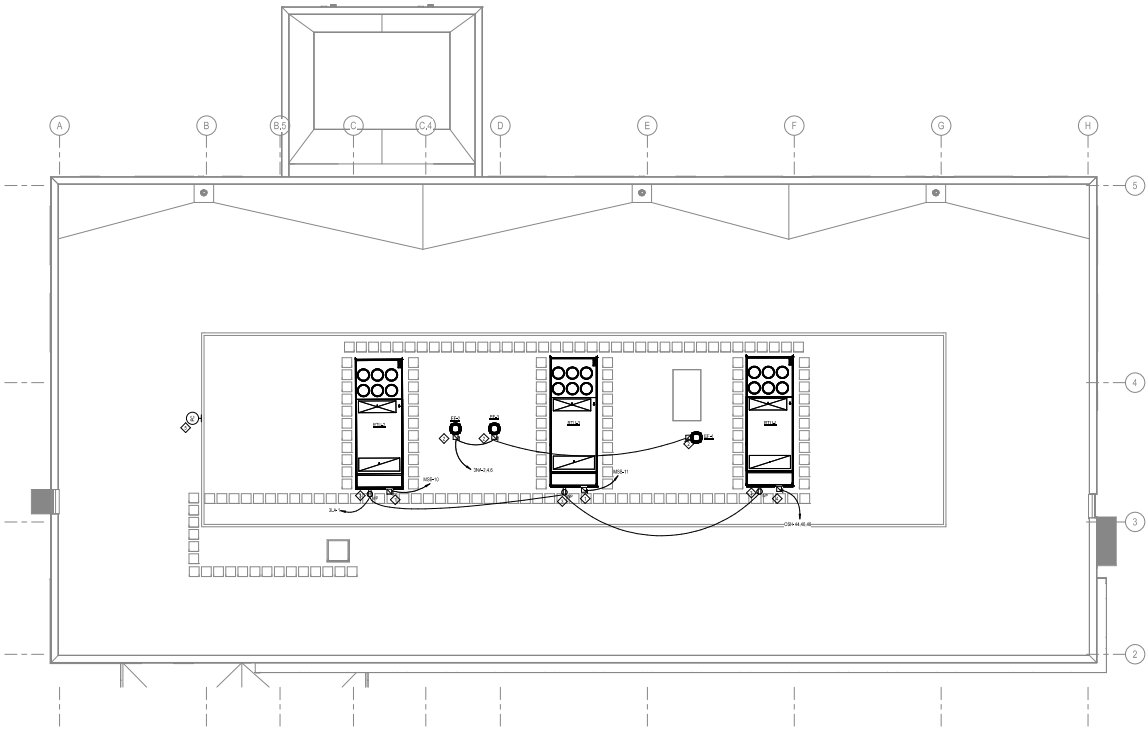

1 POWER & SYSTEMS ROOF PLAN
SCALE: 1/8" = 1'-0"

E114 - KEYED NOTES

1. ROOFTOP PACKAGED UNIT(S) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE 200A FUSED NEMA 3R DISCONNECT. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND CONDUCTORS. COORDINATE WITH MECHANICAL AND CONNECT AS REQUIRED.
2. EXHAUST FAN(S) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND CONDUCTORS. COORDINATE WITH MECHANICAL AND CONNECT AS REQUIRED.
3. PROVIDE RECEPTACLE INSTALLED IN ROOF CURB FOR HVAC EQUIPMENT
4. ROOFTOP PACKAGED UNIT(S) FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR TO PROVIDE 225A FUSED NEMA 3R DISCONNECT. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL CONDUIT AND CONDUCTORS. COORDINATE WITH MECHANICAL AND CONNECT AS REQUIRED.
5. PROVIDE PHOTOCELL FOR LIGHTING CONTROLS. COORDINATE EXACT LOCATION WITH OWNER. SEE DETAIL 7/E500 FOR MORE INFORMATION.

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LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL - NEW WORK PLAN - ROOF

ORIG SUBMISSION: 2023-05-12

SHEET:
E114

100% CONSTRUCTION DOCUMENTS

1/8"=1'-0" 6' 0' 6' 12'

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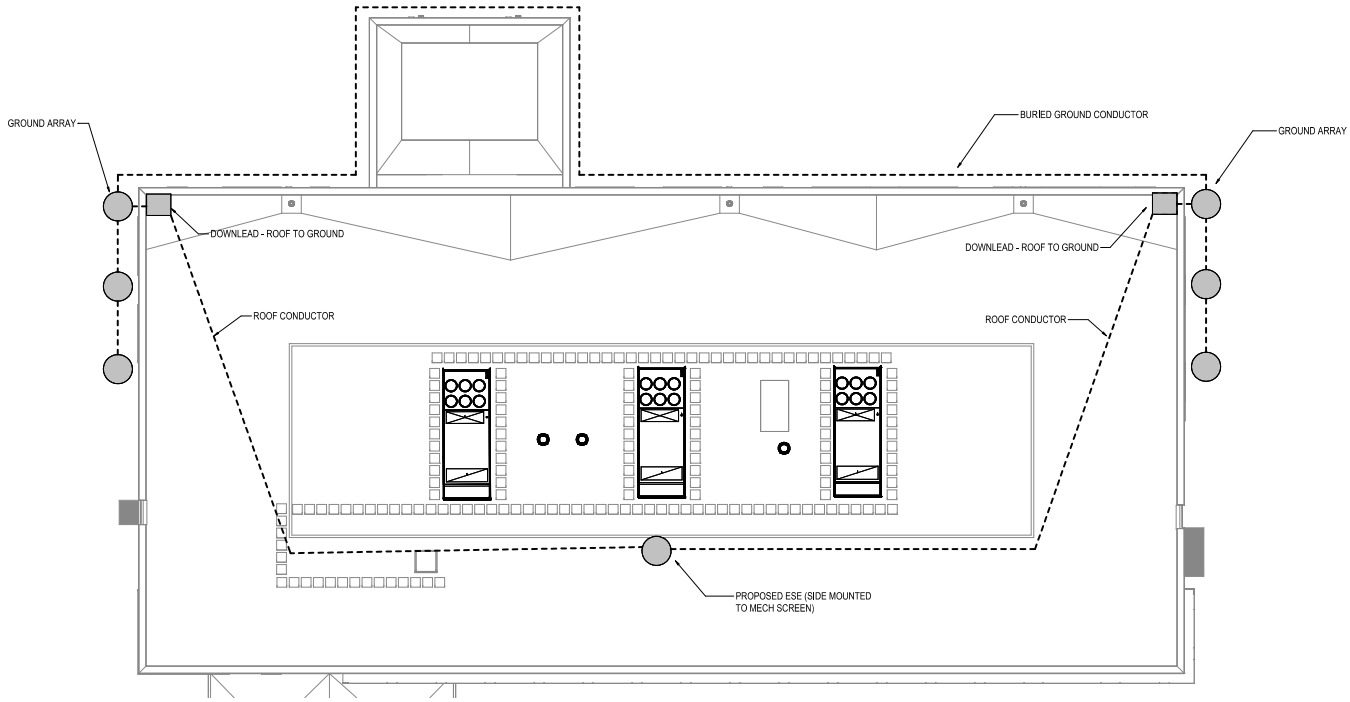

1 LIGHTNING PROTECTION PLAN
SCALE: NTS

GENERAL NOTES:

1. PROVIDE FULLY INSTALLED LIGHTNING PROTECTION SYSTEM PER SPECIFICATION 26 41 00 AND DETAIL SHEET E501.
2. CONTRACTOR SHALL CONFIRM FINAL LOCATIONS OF ALL EQUIPMENT ON ROOF AND EXTERIOR OF BUILDING PRIOR TO INSTALLATION OF LIGHTNING PROTECTION SYSTEM. CONTRACTOR SHALL ALSO COORDINATE ROUTING OF BURIED GROUND CONDUCTORS WITH UNDERGROUND VAULT AND OTHER UNDERGROUND UTILITIES.

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LS3P PROJECT 0402-225630

#	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL - NEW WORK PLAN - LIGHTNING PROTECTION

ORIG SUBMISSION: 2023-05-12

SHEET:
E115

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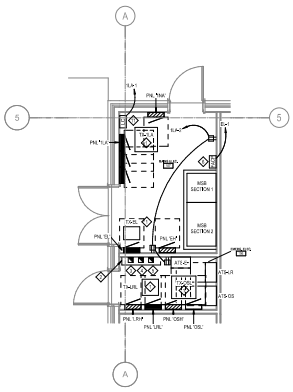
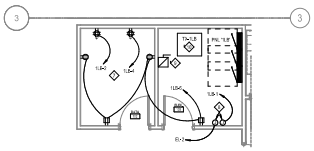
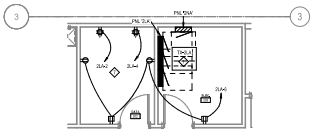


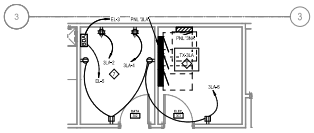
1 ENLARGED MAIN ELECTRICAL ROOM
SCALE: 1/4" = 1'-0" REF: E111



2 ENLARGED LEVEL 1 ELECTRICAL ROOM
SCALE: 1/4" = 1'-0" REF: E111



3 ENLARGED LEVEL 2 ELECTRICAL ROOM
SCALE: 1/4" = 1'-0" REF: E112



4 ENLARGED LEVEL 3 ELECTRICAL ROOM
SCALE: 1/4" = 1'-0" REF: E113

E200 - KEYED NOTES

1. PROVIDE TRAPEZE-MOUNTED TRANSFORMER INSTALLED OVERHEAD. COORDINATE EXACT LOCATION WITH STRUCTURAL.
2. PROVIDE SCREW-COVER WIREWAY FOR FEEDER FROM TRYSTAR DOCKING STATION.
3. PROVIDE 200A/3P ENCLOSED CIRCUIT BREAKER FED FROM WIREWAY TO TRYSTAR DOCKING STATION FEEDING ATS-C.
4. PROVIDE 100A/3P ENCLOSED CIRCUIT BREAKER FED FROM WIREWAY TO TRYSTAR DOCKING STATION FEEDING ATS-R.
5. PROVIDE 30A/3P ENCLOSED CIRCUIT BREAKER FED FROM WIREWAY TO TRYSTAR DOCKING STATION FEEDING ATS-OS.
6. PROVIDE 120V/1P POWER TO FIRE ALARM CONTROL PANEL.
7. PROVIDE (2) 4" EMT CONDUITS WITH GROMMETS FROM FIRST FLOOR DATA ROOM TO SECOND FLOOR DATA ROOM AND THIRD FLOOR DATA ROOM. PROVIDE WITH LARGE SWEEP ELBOWS. COORDINATE DATA REQUIREMENTS WITH OWNER.
8. PROVIDE 120V/1P POWER TO ELEVATOR SUMP PUMP CONTROL PANELS. CONNECTION FROM PANEL TO SUMP PUMP BY PLUMBING.
9. PROVIDE 125A/3P FUSED DISCONNECT FOR POWER TO TX-1LB FED BY MSWBD.
10. TX-1LB IS FLOOR MOUNTED. PROVIDE A HOUSEKEEPING CONCRETE PAD.
11. PROVIDE LIGHTING CONTACTOR AND TIME CLOCK. SEE DETAIL 7/E300 FOR MORE INFORMATION.

1/4"=1'-0" 6' 3' 0' 3' 6'

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NORTH CAROLINA PROFESSIONAL SEAL 053121 ELECTRICAL ENGINEER JAMES C. ALDRED JR.

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CFVH HARNETT MOB - Core & Shell

225 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT 0402-225630

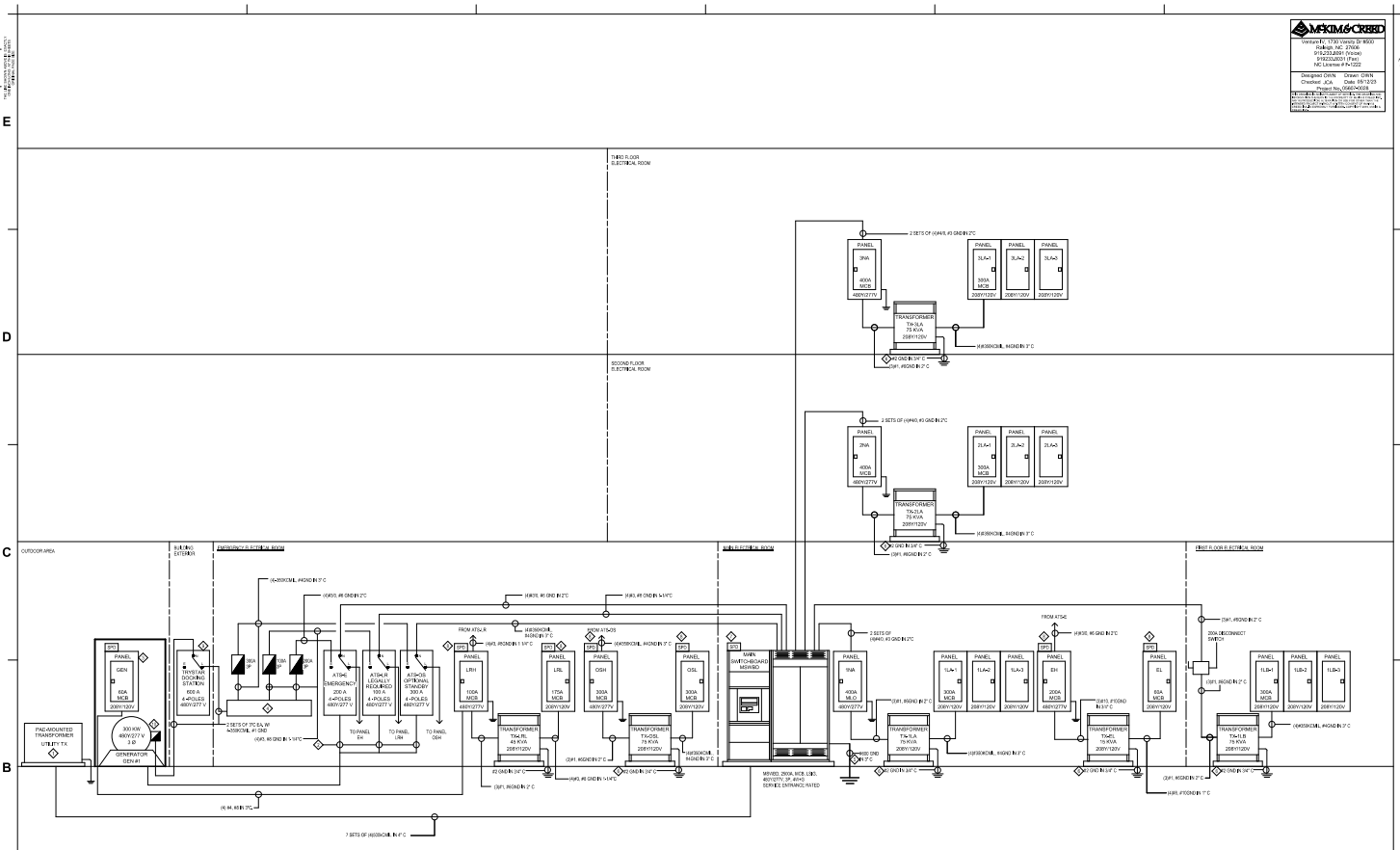
#	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL
ENLARGED PLANS

ORIG SUBMISSION: 2023-05-12

SHEET:
E200

100% CONSTRUCTION DOCUMENTS



E300 - KEYED NOTES

1. UTILITY PROVIDED. UTILITY INSTALLED. PAD TO BE PROVIDED BY CONTRACTOR. CONTRACTOR SHALL COORDINATE LOCATION OF INCOMING PRIMARY POWER WITH UTILITY.
2. PROVIDE TWISTED SHIELDED PAIR FROM EACH ATS TO GENERATOR FOR STARTUP CONTROLS.
3. PANEL GEN SHALL BE INSTALLED INSIDE GENERATOR WEATHERPROOF ENCLOSURE.
4. PROVIDE SCREW-COVER WIREWAY. MINIMUM DIMENSIONS 48"X12"X12".
5. BOND SERVICE ENTRANCE EQUIPMENT GROUND TO BUILDING. SEE GROUNDING DETAIL 2/E501.
6. SEE GROUNDING DETAIL 2/E501.
7. PROVIDE TYPE 1 SERVICE ENTRANCE RATED SURGE PROTECTION DEVICE. SIZE CONDUCTORS AND CIRCUIT BREAKER PER MANUFACTURER'S RECOMMENDATION.
8. PROVIDE TYPE 2 SURGE PROTECTION DEVICE. SIZE CONDUCTORS AND CIRCUIT BREAKER PER MANUFACTURER'S RECOMMENDATION.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE A WALL-MOUNTED GENERATOR DOCKING STATION. TRYSTAR DOCKING STATION OR APPROVED EQUIVALENT. SEE SPECIFICATION 26 36 10.
10. PROVIDE A 600A GENERATOR MAIN LINE CIRCUIT BREAKER PER SPECIFICATION 26 32 13

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Designed: DWN Drawn: DWN
Checked: JCA Date: 05/12/23
Project No. 0568C-4038

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CFVH HARNETT MOB - Core & Shell

225 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT 0402-225630

#	DATE	DESCRIPTION
1	Date 1	Revision 1

SHEET NAME: POWER RISER DIAGRAM

ORIG SUBMISSION: 2023-05-12

SHEET: **E300**

100% CONSTRUCTION DOCUMENTS

5/17/2023 4:00:34 PM

SWITCHBOARD: MSB

VOLTAGE: 480/277 Wye | MAINS: 2500 A | ENCLOSURE NEMA RATING: Type 1 | 65 :KAIC RATING
PHASE: 3 | MCB RATING: 2500 A | MOUNTING: Surface
WIRE: 4 | LOCATION: ELEC 83

CIR NO	LOAD DESCRIPTION	TRIP	FRAME	WIRE SIZE PH / N / GND	COND IN.	Load	REMARKS
1	ATS-E	200 A	200 A	SEE RISER	SEE RISER	38.35 kVA	
2	ATS-LR	100 A	100 A	SEE RISER	SEE RISER	3.42 kVA	
3	ATS-OS	300 A	400 A	SEE RISER	SEE RISER	170.96 kVA	
4	1NA	400 A	400 A	SEE RISER	SEE RISER	58.87 kVA	
5	1NB	400 A	400 A	SEE RISER	SEE RISER	0.00 kVA	
6	TX-1LB	125 A	200 A	SEE RISER	SEE RISER	8.62 kVA	
7	2NA	400 A	400 A	SEE RISER	SEE RISER	42.50 kVA	
8	3NA	400 A	400 A	SEE RISER	SEE RISER	12.90 kVA	
9	ELEVATOR-2 (NOTE 3)	100 A	100 A	4-#3, 1-#3	1 1/4"	33.24 kVA	
10	RTU-2	200 A	200 A	3-#3/0, 1-#6	2"	145.43 kVA	
11	RTU-3	200 A	200 A	3-#3/0, 1-#6	2"	159.55 kVA	
12	PREPARED SPACE	--	–	–	–	0.00 kVA	–
13	PREPARED SPACE	--	–	–	–	0.00 kVA	–
14	PREPARED SPACE	--	–	–	–	0.00 kVA	–
15	PREPARED SPACE	--	–	–	–	0.00 kVA	–
16	PREPARED SPACE	--	–	–	–	0.00 kVA	–
					TOTAL CONN. LOAD (kVA):	673.59 kVA	

LOAD CLASSIFICATION	CONNECTED	DEMAND FACTOR	DEMAND
Motor	66.48 kVA	100.00%	66.48 kVA
Other	594.31 kVA	100.00%	594.31 kVA
Lighting	6.80 kVA	100.00%	6.80 kVA
Power	2.30 kVA	100.00%	2.30 kVA
REC	9.72 kVA	100.00%	9.72 kVA

TOTAL CONNECTED AMPS: 810 A
TOTAL CONNECTED LOAD: 673.59 kVA
TOTAL ESTIMATED DEMAND AMPS: 810 A
TOTAL ESTIMATED DEMAND LOAD: 673.59 kVA

NOTES:
1. PROVIDE WITH COPPER BUSSES.
2. SERVICE ENTRANCE RATED.
3. PROVIDE WITH SHUNT TRIP BREAKER.
4. BASIS OF DESIGN IS SQUARE D PANEL QED-2.

Branch Panel: GEN

MAINS: 60 A | PHASE: 3 | SERVED FROM: LRL | 22 :KAIC RATING
VOLTAGE: 208/120 Wye | WIRE: 4 | ENCLOSURE NEMA... Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Other	2-#12, 1-#12	3/4	GEN BLOCK HEATER	20	1	1	0.18					2	20	GENERATOR REC	3/4	1-#12, 1-#12, 1-#12	REC
					3			1	0.24			4	20	GENERATOR LTS	3/4	1-#12, 1-#12, 1-#12	Other
Other	1-#12, 1-#12, 1-#12	3/4	GEN BATTERY CHARGER	20	5					1	0	6	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	7	0	0					8	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	9			0	0			10	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	11					0	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
				TOTAL CONN. LOAD:		1.18		1.24		1							

LOAD TOTALS (kVA)	CONNECTED	DEMAND
LIGHTING (LTG)		
HVAC		
MOTOR (MOT)		
KITCHEN (KIT)		
RECEPTACLE (REC)	0.18 kVA	0.18 kVA
MISCELLANEOUS (MISC)		
TOTAL:	3.42 kVA	3.42 kVA

LOAD BALANCE
PHASE A: 103.51 %
PHASE B: 108.77 %
PHASE C: 87.72 %
TOTAL DEMAND AMPS: 9 A
LARGEST UNBALANCE PHASE %: 1.09
LARGEST UNBALANCE PHASE KVA: 3.73 kVA
LARGEST UNBALANCE PHASE AMPS: 10 A

NOTES:

Panelboard: EH

VOLTAGE: 480/277 Wye | MAINS TYPE: MLO | SERVED FROM: ATS-E | 42 :KAIC RATING
PHASE: 3 | MAINS RATING: 200 A | ENCLOSURE NEMA... Type 1
WIRE: 4 | MCB RATING: N/A | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Other; Power; REC	3-#10, 1-#10, 1-#10	3/4"	TX-EL	25	1	1.3	11.08					2	100	ELEVATOR-1	1 1/4"	4-#3, 1-#3	Motor
					3			1	11.08			4					
					5					0.68	11.08	6					
Lighting	1-#12, 1-#12, 1-#12	3/4"	FIRST FLOOR EM LTS	20	7	0.18	0					8	20	SHUNT TRIP	–	–	–
Lighting	1-#12, 1-#12, 1-#12	3/4"	SECOND FLOOR EM LTS	20	9			0.21	0.42			10	20	FIRST FLOOR TEMP EM LTS	3/4"	1-#12, 1-#12, 1-#12	Lighting
Other...	1-#12, 1-#12, 1-#12	3/4"	THIRD FLOOR EM LTS	20	11					0.22	0.84	12	20	SECOND FLOOR TEMP EM LTS	3/4"	1-#12, 1-#12, 1-#12	Lighting
Lighting	1-#12, 1-#12, 1-#12	3/4"	RM 105-17 LTS	20	13	0.21	0.72					14	20	THIRD FLOOR TEMP EM LTS	3/4"	1-#12, 1-#12, 1-#12	Lighting
Other	1-#12, 1-#12, 1-#12	3/4"	STAIR A EM LTS	20	15			0.48	0.07			16	20	LOBBY 101 EM LTS	3/4"	1-#12, 1-#12, 1-#12	Lighting
Other	1-#12, 1-#12, 1-#12	3/4"	STAIR B EM LTS	20	17					0.48	0	18	–	—SPACE—	–	–	–
Other	1-#12, 1-#12, 1-#12	3/4"	ELEVATOR PIT LTS	20	19	0.48	0					20	–	—SPACE—	–	–	–
Other...	1-#12, 1-#12, 1-#12	3/4"	EM LTS EXTERIOR WEST NORTH...	20	21			0.43	0			22	–	—SPACE—	–	–	–
Other...	1-#12, 1-#12, 1-#12	3/4"	EM LTS EXTERIOR EAST	20	23					0.16	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	41					0	0	42	–	—SPACE—	–	–	–
				TOTAL CONN. LOAD (kVA):		12.91		12.92		12.53							

LOAD CLASSIFICATION	CONNECTED	DEMAND FACTOR	DEMAND
Motor	33.24 kVA	100.00%	33.24 kVA
Other	4.00 kVA	100.00%	4.00 kVA
Lighting	3.17 kVA	100.00%	3.17 kVA
Power	0.80 kVA	100.00%	0.80 kVA
REC	0.18 kVA	100.00%	0.18 kVA

TOTAL CONNECTED AMPS: 46 A
TOTAL CONNECTED LOAD: 38.35 kVA
TOTAL ESTIMATED DEMAND AMPS: 46 A
TOTAL ESTIMATED DEMAND LOAD: 38.35 kVA

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NF.

Branch Panel: LRH

MAINS: 100 A | PHASE: 3 | SERVED FROM: ATS-LR | 42 :KAIC RATING
VOLTAGE: 480/277 Wye | WIRE: 4 | ENCLOSURE NEMA... Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Other; REC	3-#4, 1-#4, 1-#8	1-1/4"	TX-LRL	70	1	1.18	0					2	–	—SPACE—	–	–	–
					3			1.24	0			4	–	—SPACE—	–	–	–
					5					1	0	6	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	7	0	0					8	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	9			0	0			10	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	11					0	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	41					0	0	42	–	—SPACE—	–	–	–
				TOTAL CONN. LOAD:		1.18		1.24		1							

LOAD TOTALS (kVA)	CONNECTED	DEMAND
LIGHTING (LTG)		
HVAC		
MOTOR (MOT)		
KITCHEN (KIT)		
RECEPTACLE (REC)	0.18 kVA	0.18 kVA
MISCELLANEOUS (MISC)		
TOTAL:	3.42 kVA	3.42 kVA

LOAD BALANCE
PHASE A: 103.51 %
PHASE B: 108.77 %
PHASE C: 87.72 %
TOTAL DEMAND AMPS: 4 A
LARGEST UNBALANCE PHASE %: 1.09
LARGEST UNBALANCE PHASE KVA: 3.73 kVA
LARGEST UNBALANCE PHASE AMPS: 4 A

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NF.

Panelboard: OSH

VOLTAGE: 480/277 Wye | MAINS TYPE: MCB | SERVED FROM: ATS-OS | 42 :KAIC RATING
PHASE: 3 | MAINS RATING: 300 A | ENCLOSURE NEMA... Type 1
WIRE: 4 | MCB RATING: 300 A | MOUNTING: Surface | LOCATION: ELEC 82

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Power	3-#1, 1-#6	1-1/2"	TX-OSL	125	1	0	0					2	–	—SPACE—	–	–	–
					3			0	0			4	–	—SPACE—	–	–	–
					5					0	0	6	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	7	0	0					8	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	9			0	0			10	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	11					0	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	41					0	0	42	–	—SPACE—	–	–	–
–	–	–	UNUSABLE SPACE	–	43	0	56.99					44	225	RTU-1 (NOTE 2)	2-1/2"	3-#4/0, 1-#4/0, 1-#4	Other
–	–	–	UNUSABLE SPACE	–	45			0	56.99			46					
–	–	–	UNUSABLE SPACE	–	47					0	56.99	48					
				TOTAL CONN. LOAD (kVA):		56.99		56.99		56.99							

LOAD CLASSIFICATION	CONNECTED	DEMAND FACTOR	DEMAND
Other	170.96 kVA	100.00%	170.96 kVA

TOTAL CONNECTED AMPS: 206 A
TOTAL CONNECTED LOAD: 170.96 kVA
TOTAL ESTIMATED DEMAND AMPS: 206 A
TOTAL ESTIMATED DEMAND LOAD: 170.96 kVA

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NF.
2. BREAKER TO BE PLACED IN A SUBFEED LOCATION.

Branch Panel: EL

MAINS: 60 A | PHASE: 3 | SERVED FROM: TX-EL | 22 :KAIC RATING
VOLTAGE: 208/120 Wye | WIRE: 4 | ENCLOSURE NEMA... Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Other	1-#12, 1-#12, 1-#12	3/4	FACP (NOTE 2)	20	1	0.5	0.5					2	20	SP-1	3/4	1-#12, 1-#12, 1-#12	Power
Other	1-#12, 1-#12, 1-#12	3/4	BDA PANEL (NOTE 2)	20	3			0.5	0.5			4	20	ELEVATOR-1 CAB LTS	3/4	1-#12, 1-#12, 1-#12	Other
Other	1-#12, 1-#12, 1-#12	3/4	BDA BATTERY CHARGER (NOTE 2)	20	5					0.5	0.18	6	20	ELEVATOR-1 PIT REC	3/4	1-#12, 1-#12, 1-#12	REC
Power	1-#12, 1-#12, 1-#12	3/4	STAIR A DOOR HOLDER (NOTE 2)	20	7	0.3	0					8	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	9			0	0			10	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	11					0	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
				TOTAL CONN. LOAD:		1.3		1		0.68							

LOAD TOTALS (kVA)	CONNECTED	DEMAND
LIGHTING (LTG)		
HVAC		
MOTOR (MOT)		
KITCHEN (KIT)		
RECEPTACLE (REC)	0.18 kVA	0.18 kVA
MISCELLANEOUS (MISC)		
TOTAL:	2.98 kVA	2.98 kVA

LOAD BALANCE
PHASE A: 130.87 %
PHASE B: 100.67 %
PHASE C: 68.46 %
TOTAL DEMAND AMPS: 8 A
LARGEST UNBALANCE PHASE %: 1.31
LARGEST UNBALANCE PHASE KVA: 3.90 kVA
LARGEST UNBALANCE PHASE AMPS: 11 A

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NQ.
2. PROVIDE WITH A LOCKED CIRCUIT BREAKER.

Branch Panel: LRL

MAINS: 175 A | PHASE: 3 | SERVED FROM: TX-LRL | 22 :KAIC RATING
VOLTAGE: 208/120 Wye | WIRE: 4 | ENCLOSURE NEMA... Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Other; REC	3-#6, 1-#6, 1-#10	1"	PANEL "GEN"	60	1	1.18	0					2	–	—SPACE—	–	–	–
					3			1.24	0			4	–	—SPACE—	–	–	–
					5					1	0	6	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	7	0	0					8	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	9			0	0			10	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	11					0	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	41					0	0	42	–	—SPACE—	–	–	–
				TOTAL CONN. LOAD:		1.18		1.24		1							

LOAD TOTALS (kVA)	CONNECTED	DEMAND
LIGHTING (LTG)		
HVAC		
MOTOR (MOT)		
KITCHEN (KIT)		
RECEPTACLE (REC)	0.18 kVA	0.18 kVA
MISCELLANEOUS (MISC)		
TOTAL:	3.42 kVA	3.42 kVA

LOAD BALANCE
PHASE A: 103.51 %
PHASE B: 108.77 %
PHASE C: 87.72 %
TOTAL DEMAND AMPS: 9 A
LARGEST UNBALANCE PHASE %: 1.09
LARGEST UNBALANCE PHASE KVA: 3.73 kVA
LARGEST UNBALANCE PHASE AMPS: 10 A

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NQ.

Branch Panel: OSL

MAINS: 300 A | PHASE: 3 | SERVED FROM: TX-OSL | 22 :KAIC RATING
VOLTAGE: 208/120 Wye | WIRE: 4 | ENCLOSURE NEMA... Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
–	–	–	—SPACE—	–	1	0	0					2	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	3			0	0			4	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	5					0	0	6	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	7	0	0					8	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	9			0	0			10	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	11					0	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	41					0	0	42	–	—SPACE—	–	–	–
				TOTAL CONN. LOAD:		0		0		0							

LOAD TOTALS (kVA)	CONNECTED	DEMAND
LIGHTING (LTG)		
HVAC		
MOTOR (MOT)		
KITCHEN (KIT)		
RECEPTACLE (REC)		
MISCELLANEOUS (MISC)		
TOTAL:	0 kVA	0 kVA

LOAD BALANCE
PHASE A: %
PHASE B: %
PHASE C: %
TOTAL DEMAND AMPS: 0 A
LARGEST UNBALANCE PHASE %:
LARGEST UNBALANCE PHASE KVA:
LARGEST UNBALANCE PHASE AMPS:

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NQ.

McKIM&CREED
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Raleigh, NC 27606
919.233.8091 (Voice)
919233.8031 (Fax)
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LS3P PROJECT: 8403-225630

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL PANEL SCHEDULES

ORIG SUBMISSION: 2023-05-12

SHEET: **E400**

100% CONSTRUCTION DOCUMENTS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

5/17/2023 4:04:55 PM

Branch Panel: 1LA

MAINS: 300 A | PHASE: 3 | SERVED FROM: TX-1LA | 22 :KAIC RATING
VOLTAGE: 208/120 Wye | WIRE: 4 | ENCLOSURE NEMA... Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BR K...	CIR NO	A		B		C		CIR NO	BR K...	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Other	1-#12, 1-#12, 1-#12	3/4"	LIGHTING PANEL	20	1	0.5	0.54					2	20	RECS 106,107	3/4"	1-#12, 1-#12, 1-#12	REC
REC	1-#12, 1-#12, 1-#12	3/4"	WEST, NORTH EXTERIOR RECS	20	3			0.54	0.36			4	20	OPEN SPACE RECS	3/4"	1-#12, 1-#12, 1-#12	REC
–	–	–	—SPACE—	--	5					0	0	6	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	7	0	0					8	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	9			0	0			10	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	11					0	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	41					0	0	42	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	43	0	0					44	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	45			0	0			46	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	47					0	0	48	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	49	0	0					50	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	51			0	0			52	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	53					0	0	54	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	55	0	0					56	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	57			0	0			58	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	59					0	0	60	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	61	0	0					62	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	63			0	0			64	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	65					0	0	66	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	67	0	0					68	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	69			0	0			70	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	71					0	0	72	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	73	0	0					74	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	75			0	0			76	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	77					0	0	78	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	79	0	0					80	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	81			0	0			82	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	83					0	0	84	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	85	0	0					86	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	87			0	0			88	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	89					0	0	90	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	91	0	0					92	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	93			0	0			94	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	95					0	0	96	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	97	0	0					98	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	99			0	0			100	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	101					0	0	102	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	103	0	0					104	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	105			0	0			106	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	107					0	0	108	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	109	0	0					110	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	111			0	0			112	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	113					0	0	114	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	115	0	0					116	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	117			0	0			118	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	119					0	0	120	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	121	0	0					122	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	123			0	0			124	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	125					0	0	126	–	—SPACE—	–	–	–
			TOTAL CONN. LOAD:			1.04		0.9		0							

LOAD TOTALS (kVA)	CONNECTED	DEMAND
LIGHTING (LTG)		
HVAC		
MOTOR (MOT)		
KITCHEN (KIT)		
RECEPTACLE (REC)	1.44 kVA	1.44 kVA
MISCELLANEOUS (MISC)		
TOTAL:	1.94 kVA	1.94 kVA

LOAD BALANCE	
PHASE A:	160.82 %
PHASE B:	139.18 %
PHASE C:	0 %
TOTAL DEMAND AMPS:	5 A
LARGEST UNBALANCE PHASE %:	1.61
LARGEST UNBALANCE PHASE KVA:	3.12 kVA
LARGEST UNBALANCE PHASE AMPS:	9 A

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NQ.
2. THIS PANEL IS A 3-SECTION PANEL WITH FEED THRU LUGS.

Branch Panel: 1LB

MAINS: 300 A | PHASE: 3 | SERVED FROM: TX-1LB | 22 :KAIC RATING
VOLTAGE: 208/120 Wye | WIRE: 4 | ENCLOSURE NEMA... Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BR K...	CIR NO	A		B		C		CIR NO	BR K...	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Power	1-#12, 1-#12, 1-#12	3/4"	SP-2	20	1	0.5	0.36					2	20	DEDICATED QUAD DATA 102	3/4"	1-#12, 1-#12, 1-#12	REC
Power	1-#12, 1-#12, 1-#12	3/4"	JUNCTION BOX FOR DIRECTORY	20	3			1	0.36			4	20	DEDICATED QUAD DATA 102	3/4"	1-#12, 1-#12, 1-#12	REC
Other	1-#12, 1-#12, 1-#12	3/4"	ELEVATOR-2 CAB LTS	20	5					0.5	0.72	6	20	RECS RM 102,103	3/4"	1-#12, 1-#12, 1-#12	REC
REC	1-#12, 1-#12, 1-#12	3/4"	ELEVATOR-2 PIT REC	20	7	0.18	0.9					8	20	GENERAL RECS	3/4"	1-#12, 1-#12, 1-#12	REC
Other	1-#12, 1-#12, 1-#12	3/4"	SLIDING DOORS	20	9			0.5	0.18			10	20	SOUTH EXTERIOR REC	3/4"	1-#12, 1-#12, 1-#12	REC
REC	1-#12, 1-#12, 1-#12	3/4"	EAST EXTERIOR RECS	20	11					0.36	0.18	12	20	OPEN SPACE REC	3/4"	1-#12, 1-#12, 1-#12	REC
Other	1-#12, 1-#12, 1-#12	3/4"	EXTERIOR SIGN	20	13	1.2	0.3					14	20	TLT 104 PLUMBING FIXTURES	3/4"	1-#12, 1-#12, 1-#12	Other
Other	1-#12, 1-#12, 1-#12	3/4"	EXTERIOR SIGN	20	15			1.2	0.18			16	20	HOT BOX REC	3/4"	1-#12, 1-#12, 1-#12	REC
–	–	–	—SPACE—	–	17					0	0	18	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	19	0	0					20	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	21			0	0			22	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	31	0	0					32	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	33			0	0			34	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	35					0	0	36	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	37	0	0					38	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	39			0	0			40	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	41					0	0	42	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	43	0	0					44	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	45			0	0			46	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	47					0	0	48	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	49	0	0					50	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	51			0	0			52	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	53					0	0	54	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	55	0	0					56	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	57			0	0			58	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	59					0	0	60	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	61	0	0					62	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	63			0	0			64	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	65					0	0	66	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	67	0	0					68	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	69			0	0			70	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	71					0	0	72	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	73	0	0					74	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	75			0	0			76	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	77					0	0	78	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	79	0	0					80	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	81			0	0			82	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	83					0	0	84	--	—SPACE—	–	–	–
–	–	–	—SPACE—	–	85	0	0					86	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	87			0	0			88	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	89					0	0	90	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	91	0	0					92	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	93			0	0			94	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	95					0	0	96	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	97	0	0					98	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	99			0	0			100	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	101					0	0	102	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	103	0	0					104	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	105			0	0			106	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	107					0	0	108	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	109	0	0					110	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	111			0	0			112	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	113					0	0	114	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	115	0	0					116	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	117			0	0			118	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	119					0	0	120	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	121	0	0					122	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	123			0	0			124	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	125					0	0	126	–	—SPACE—	–	–	–
			TOTAL CONN. LOAD:			3.44		3.42		1.76							

LOAD TOTALS (kVA)	CONNECTED	DEMAND
LIGHTING (LTG)		
HVAC		
MOTOR (MOT)		
KITCHEN (KIT)		
RECEPTACLE (REC)	3.42 kVA	3.42 kVA
MISCELLANEOUS (MISC)		
TOTAL:	8.62 kVA	8.62 kVA

LOAD BALANCE	
PHASE A:	119.72 %
PHASE B:	119.03 %
PHASE C:	61.25 %
TOTAL DEMAND AMPS:	24 A
LARGEST UNBALANCE PHASE %:	1.2
LARGEST UNBALANCE PHASE KVA:	10.34 kVA
LARGEST UNBALANCE PHASE AMPS:	29 A

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NQ.
2. THIS PANEL IS A 3-SECTION PANEL WITH FEED THRU LUGS.

Branch Panel: 1NA

MAINS: 400 A | PHASE: 3 | SERVED FROM: MSB | 65 :KAIC RATING
VOLTAGE: 480/277 Wye | WIRE: 4 | ENCLOSURE NEMA... Type 1
LUG OPTION: MLO | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
Other; REC	3-#1, 1-#1, 1-#6	1-1/2"	TX-1LA	125	1	1.04	0.43					2	20	PARKING LOT LTS	3/4"	1-#12, 1-#12, 1-#12	Other
					3			0.9	0.58			4	20	PARKING LOT LTS	3/4"	1-#12, 1-#12, 1-#12	Other
					5					0	0.43	6	20	PARKING LOT LTS	3/4"	1-#12, 1-#12, 1-#12	Other
Other	1-#12, 1-#12, 1-#12	3/4"	UH-1	15	7	3.32	0.29					8	20	PARKING LOT LTS	3/4"	1-#12, 1-#12, 1-#12	Other
Other	1-#6, 1-#6, 1-#10	1"	UH-2	50	9			10	0.14			10	20	BOLLARDS	3/4"	1-#12, 1-#12, 1-#12	Lighting
Other	1-#6, 1-#6, 1-#10	1"	UH-3	50	11					10	1.2	12	20	MONUMENT SIGN	3/4"	1-#12, 1-#12, 1-#12	Other
Other	1-#6, 1-#6, 1-#10	1"	UH-4	50	13	10	0.13					14	20	LTS LOBBY TEMP, CORRIDOR AND TLT	3/4"	1-#12, 1-#12, 1-#12	Lighting
Other	1-#6, 1-#6, 1-#10	1"	UH-5	50	15			10	0.72			16	20	OPEN SPACE TEMP LTS	3/4"	1-#12, 1-#12, 1-#12	Lighting
Other	1-#6, 1-#6, 1-#10	1"	UH-6	50	17					10	0	18	20	MAIN ENTRANCE CANOPY LTS	3/4"	1-#12, 1-#12, 1-#12	Lighting
–	–	–	—SPACE—	–	19	0	0.5					20	20	J-BOX FUTURE WALL LIGHTS	3/4"	1-#12, 1-#12, 1-#12	Lighting
–	–	–	—SPACE—	–	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	41					0	0	42	–	—SPACE—	–	–	–
			TOTAL CONN. LOAD:			15.62		21.63		21.63							

LOAD TOTALS (kVA)	CONNECTED	DEMAND
LIGHTING (LTG)		
HVAC		
MOTOR (MOT)		
KITCHEN (KIT)		
RECEPTACLE (REC)	1.44 kVA	1.44 kVA
MISCELLANEOUS (MISC)		
TOTAL:	58.87 kVA	58.87 kVA

LOAD BALANCE	
PHASE A:	79.58 %
PHASE B:	110.22 %
PHASE C:	110.24 %
TOTAL DEMAND AMPS:	71 A
LARGEST UNBALANCE PHASE %:	1.1
LARGEST UNBALANCE PHASE KVA:	64.76 kVA
LARGEST UNBALANCE PHASE AMPS:	78 A

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NF.

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Raleigh, NC 27606
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Designed OWN | Drawn OWN
Checked JCA | Date 05/12/23
Project No. 05607-0028

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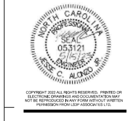

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CFVH HARNETT MOB - Core & Shell

225 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT: 8403-225630

Δ	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL PANEL SCHEDULES

ORIG SUBMISSION: 2023-05-12

SHEET: E401

100% CONSTRUCTION DOCUMENTS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE
5/17/2023 4:00:38 PM

Branch Panel: 2LA

MARS: 300 A | PHASE: 3 | SERVED FROM: TX-2LA | 22 kAIC RATING
VOLTAGE: 208/120 Wye | WIRE: 4 | ENCLOSURE NEMA: Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	CONDIT.	LOAD DESCRIPTION	CKT NO	CKT BKR	A	B	C	CKT NO	CKT BKR	LOAD DESCRIPTION	CONDIT.	WIRE SIZE PH / N / GND	LOAD CLASS
Other Feeder	4#12, 1#12, 1#12	3/3"	EMH, CONV RECS	20	1	0.18 / 0.36			21	1	RECEPTACLE OUTDOOR DATA 202	3/3"	4#12, 1#12, 1#12	Other
RECS	4#12, 1#12, 1#12	3/3"	RECS OUTSIDE STUDIO 202	22	1		0.18 / 0.36		23	1	RECEPTACLE OUTDOOR DATA 202	3/3"	4#12, 1#12, 1#12	RECS
-	-	-	SPARE	-	1			0 / 0	24	1	RECS RM 202, 203	3/3"	4#12, 1#12, 1#12	RECS
-	-	-	SPACE	-	1	0.1			26	1	X-RAY P - SERVER FURUNO	3/3"	4#12, 1#12, 1#12	Other
-	-	-	SPACE	-	1		0 / 0		28	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	30	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		32	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	34	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		36	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	38	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		40	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	42	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		44	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	46	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		48	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	50	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		52	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	54	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		56	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	58	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		60	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	62	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		64	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	66	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		68	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	70	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		72	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	74	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		76	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	78	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		80	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	82	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		84	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	86	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		88	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	90	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		92	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	94	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		96	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	98	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		100	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	102	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		104	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	106	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		108	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	110	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		112	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	114	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		116	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	118	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		120	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	122	-	SPACE	-	-	-
-	-	-	SPACE	-	1		0 / 0		124	-	SPACE	-	-	-
-	-	-	SPACE	-	1			0 / 0	126	-	SPACE	-	-	-
			TOTAL CONN. LOAD			0.18	0.54	0.18						

	CONNECTED	DEMAND		LOAD BALANCE	
LOAD TOTALS (kVA)				PHASE A:	146.24 %
LIGHTING (LTG)				PHASE B:	69.85 %
HVAC				PHASE C:	87.21 %
MOTOR (MOT)					
KITCHEN (KIT)					
RECEPTACLE (REC)	2.16 kVA	2.16 kVA		TOTAL DEMAND AMPS:	7 A
MISCELLANEOUS (MISC)				LARGEST UNBALANCE PHASE %:	1.46
TOTAL:	2.46 kVA	2.46 kVA		LARGEST UNBALANCE PHASE kVA:	3.59 kVA
				LARGEST UNBALANCE PHASE AMPS:	10 A

NOTES:
1. BASED OF DESIGN IS SQUARE D PANEL NQ.
2. THIS PANEL IS A 3-SECTION PANEL WITH FEED THRU LUGS.

Branch Panel: 2NA

MARS: 400 A | PHASE: 3 | SERVED FROM: MSB | 42 kAIC RATING
VOLTAGE: 480/277 Wye | WIRE: 4 | ENCLOSURE NEMA: Type 1
LUG OPTION: MCB | MOUNTING: Surface

LOAD CLASS	WIRE SIZE PH / N / GND	CONDIT.	LOAD DESCRIPTION	BRKR RTG	CKT NO	A	B	C	CKT NO	BRKR RTG	LOAD DESCRIPTION	CONDIT.	WIRE SIZE PH / N / GND	LOAD CLASS
Other Feeder	3#1, 1#1, 1#6	3/3"	TX-2LA	100	5		12.7 / 10			3	10	1/3"	3#6, 1#6, 1#10	Other
					5			0.24 / 10		1	15	1/3"	3#6, 1#6, 1#10	Other
					5				0.72 / 10	1	15	1/3"	3#6, 1#6, 1#10	Other
Lighting	4#12, 1#12, 1#12	3/3"	LTG CORRIDOR AND TILT	20	7	0.72 / 10				1	20	1/3"	3#6, 1#6, 1#10	Other
Lighting	4#12, 1#12, 1#12	3/3"	RECESSED FLOOR TEMP LTG	20	9		0.72 / 10			1	20	1/3"	-	-
-	-	-	SPARE	-	11			0 / 0		1	15	1/3"	-	-
-	-	-	SPARE	-	13				0 / 0	1	15	1/3"	-	-
-	-	-	SPARE	-	15			0 / 0		1	15	1/3"	-	-
-	-	-	SPARE	-	17				0 / 0	1	15	1/3"	-	-
-	-	-	SPARE	-	19			0 / 0		1	20	1/3"	-	-
-	-	-	SPARE	-	21				0 / 0	1	20	1/3"	-	-
-	-	-	SPARE	-	23			0 / 0		1	20	1/3"	-	-
-	-	-	SPARE	-	25				0 / 0	1	20	1/3"	-	-
-	-	-	SPARE	-	27			0 / 0		1	20	1/3"	-	-
-	-	-	SPARE	-	29				0 / 0	1	20	1/3"	-	-
-	-	-	SPARE	-	31			0 / 0		1	20	1/3"	-	-
-	-	-	SPARE	-	33				0 / 0	1	20	1/3"	-	-
-	-	-	SPARE	-	35			0 / 0		1	20	1/3"	-	-
-	-	-	SPARE	-	37				0 / 0	1	20	1/3"	-	-
-	-	-	SPARE	-	39			0 / 0		1	20	1/3"	-	-
-	-	-	SPARE	-	41				0 / 0	1	20	1/3"	-	-
			TOTAL CONN. LOAD			21.24	13.37	10.72						

	CONNECTED	DEMAND		LOAD BALANCE	
LOAD TOTALS (kVA)				PHASE A:	145.85 %
LIGHTING (LTG)				PHASE B:	74.6 %
HVAC				PHASE C:	75.07 %
MOTOR (MOT)					
KITCHEN (KIT)					
RECEPTACLE (REC)	2.16 kVA	2.16 kVA		TOTAL DEMAND AMPS:	51 A
MISCELLANEOUS (MISC)				LARGEST UNBALANCE PHASE %:	1.3
TOTAL:	42.2 kVA	42.2 kVA		LARGEST UNBALANCE PHASE kVA:	3.73 kVA
				LARGEST UNBALANCE PHASE AMPS:	77 A

NOTES:
1. BASED OF DESIGN IS SQUARE D PANEL NF.

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NC License # F-1253

Designed: DWN | Drawn: DWN
Checked: JCA | Date: 05/12/23
Project No. 0668140.09

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CFVH HARNETT MOB - Core & Shell

226 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT 0402-225630

△	DATE	DESCRIPTION

SHEET NAME:
ELECTRICAL PANEL SCHEDULES

ORIG SUBMISSION: 2023-05-12

SHEET:
E402

100% CONSTRUCTION DOCUMENTS

5/11/2023 4:05:39 PM

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

Branch Panel: 3LA

MAINS: 300 A
VOLTAGE: 208/120 Wye
PHASE: 3
WIRE: 4
LUG OPTION: MCB
SERVED FROM: TX-3LA
ENCLOSURE NEMA...: Type 1
MOUNTING: Surface
22 :KAIC RATING

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BR K...	CIR NO	A		B		C		CIR NO	BR K...	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
REC	1-#12, 1-#12, 1-#12	3/4"	ROOFTOP RECS	20	1	0.18	0.36					2	20	DEDICATED QUAD DATA 302	3/4"	1-#12, 1-#12, 1-#12	REC
REC	1-#12, 1-#12, 1-#12	3/4"	JAN, CONV RECS	20	3			0.54	0.36			4	20	DEDICATED QUAD DATA 302	3/4"	1-#12, 1-#12, 1-#12	REC
REC	1-#12, 1-#12, 1-#12	3/4"	REC OUTSIDE STAIRS SB3	20	5					0.18	0.72	6	20	RECS RM 302, 303	3/4"	1-#12, 1-#12, 1-#12	REC
Other	1-#10, 1-#10, 1-#10	3/4"	EXTERIOR SIGN	20	7	1.2	0.3					8	20	TLT 304 PLUMBING FIXTURES	3/4"	1-#12, 1-#12, 1-#12	Other
Other	1-#10, 1-#10, 1-#10	3/4"	EXTERIOR SIGN	20	9			1.2	0			10	–	—SPACE—	–	–	–
Other	1-#10, 1-#10, 1-#10	3/4"	EXTERIOR SIGN	20	11					1.2	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	41					0	0	42	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	43	0	0					44	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	45			0	0			46	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	47					0	0	48	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	49	0	0					50	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	51			0	0			52	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	53					0	0	54	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	55	0	0					56	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	57			0	0			58	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	59					0	0	60	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	61	0	0					62	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	63			0	0			64	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	65					0	0	66	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	67	0	0					68	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	69			0	0			70	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	71					0	0	72	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	73	0	0					74	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	75			0	0			76	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	77					0	0	78	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	79	0	0					80	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	81			0	0			82	–	—SPACE—	–	–	–
–	–	–	—SPACE—	--	83					0	0	84	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	85	0	0					86	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	87			0	0			88	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	89					0	0	90	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	91	0	0					92	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	93			0	0			94	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	95					0	0	96	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	97	0	0					98	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	99			0	0			100	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	101					0	0	102	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	103	0	0					104	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	105			0	0			106	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	107					0	0	108	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	109	0	0					110	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	111			0	0			112	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	113					0	0	114	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	115	0	0					116	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	117			0	0			118	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	119					0	0	120	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	121	0	0					122	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	123			0	0			124	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	125					0	0	126	–	—SPACE—	–	–	–
				TOTAL CONN. LOAD:		2.04		2.1		2.1							

LOAD TOTALS (kVA)	CONNECTED	DEMAND	LOAD BALANCE	
LIGHTING (LTG)			PHASE A:	98.08 %
HVAC			PHASE B:	100.96 %
MOTOR (MOT)			PHASE C:	100.96 %
KITCHEN (KIT)				
RECEPTACLE (REC)	2.34 kVA	2.34 kVA	TOTAL DEMAND AMPS:	17 A
MISCELLANEOUS (MISC)			LARGEST UNBALANCE PHASE %:	1.01
TOTAL:	6.24 kVA	6.24 kVA		
			LARGEST UNBALANCE PHASE KVA:	6.30 kVA
			LARGEST UNBALANCE PHASE AMPS:	17 A

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NQ.
2. THIS PANEL IS A 3-SECTION PANEL WITH FEED THRU LUGS.

Branch Panel: 3NA

MAINS: 400 A
VOLTAGE: 480/277 Wye
PHASE: 3
WIRE: 4
LUG OPTION: MCB
SERVED FROM: MSB
ENCLOSURE NEMA...: Type 1
MOUNTING: Surface
42 :KAIC RATING

LOAD CLASS	WIRE SIZE PH / N / GND	COND IN.	LOAD DESCRIPTION	BRKR RTG	CIR NO	A		B		C		CIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN.	WIRE SIZE PH / N / GND	LOAD CLASS
					1	2.04	2.16					2					
Other; REC	3-#1, 1-#1, 1-#6	1-1/2"	TX-3LA	125	3			2.1	2.16			4	15	EF-1, 2, 3	3/4"	3-#12, 1-#12	Other
					5					2.1	2.16	6					
Lighting	1-#12, 1-#12, 1-#12	3/4"	LTS CORRIDOR AND TLT	20	7	0.05	0					8	–	—SPACE—	–	–	–
Lighting	1-#12, 1-#12, 1-#12	3/4"	THIRD FLOOR TEMP LTS	20	9			0.9	0			10	–	—SPACE—	–	–	–
Lighti...	1-#12, 1-#12, 1-#12	3/4"	EXTERIOR COVE LIGHT	20	11					1	0	12	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	13	0	0					14	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	15			0	0			16	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	17					0	0	18	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	19	0	0					20	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	21			0	0			22	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	23					0	0	24	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	25	0	0					26	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	27			0	0			28	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	29					0	0	30	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	31	0	0					32	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	33			0	0			34	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	35					0	0	36	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	37	0	0					38	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	39			0	0			40	–	—SPACE—	–	–	–
–	–	–	—SPACE—	–	41					0	0	42	–	—SPACE—	–	–	–
				TOTAL CONN. LOAD:		4.24		4.35		4.38							

LOAD TOTALS (kVA)	CONNECTED	DEMAND	LOAD BALANCE	
LIGHTING (LTG)			PHASE A:	98.49 %
HVAC			PHASE B:	101.25 %
MOTOR (MOT)			PHASE C:	101.76 %
KITCHEN (KIT)				
RECEPTACLE (REC)	2.34 kVA	2.34 kVA	TOTAL DEMAND AMPS:	16 A
MISCELLANEOUS (MISC)			LARGEST UNBALANCE PHASE %:	1.02
TOTAL:	12.9 kVA	12.9 kVA		
			LARGEST UNBALANCE PHASE KVA:	13.16 kVA
			LARGEST UNBALANCE PHASE AMPS:	16 A

NOTES:
1. BASIS OF DESIGN IS SQUARE D PANEL NF.

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NC License # F-1222

Designed OWN Drawn OWN
Checked JCA Date 05/12/23
Project No. 05607-0028

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NORTH CAROLINA PROFESSIONAL SEAL 053121 ENGINEER JESSE C. ALONZO JR. 5/15/23

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CFVH HARNETT MOB - Core & Shell

225 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT: 8403-225630

Δ	DATE	DESCRIPTION

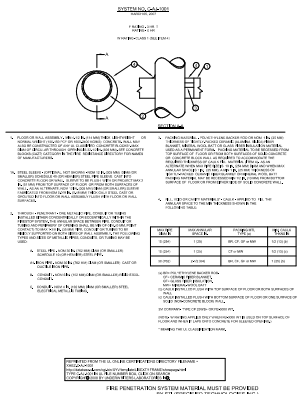
SHEET NAME:
ELECTRICAL PANEL SCHEDULES

ORIG SUBMISSION: 2023-05-12

SHEET:
E403

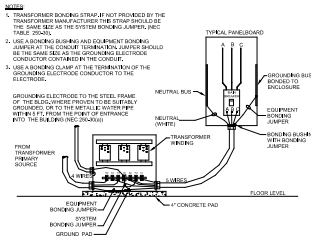
100% CONSTRUCTION DOCUMENTS

5/17/2023 4:00:40 PM



FIRE PENETRATION SYSTEM MATERIAL MUST BE PROVIDED BY STI (SPECIFIED TECHNOLOGIES INC.)

1 PENETRATION DETAIL - C - AJ - 1001
SCALE: NTS



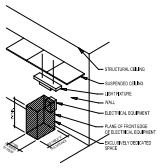
2 DRY TYPE TRANSFORMER GROUNDING
SCALE: NTS

TABLE 4 (WORKING CLEARANCES)				
NOMINAL VOLTAGE TO GROUND	MINIMUM CLEAR DISTANCE			
	CONDITION 1	CONDITION 2	CONDITION 3
120-250	3	3	3
251-600	3	4	5

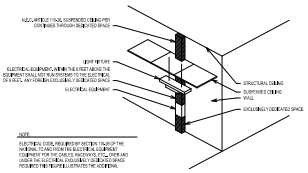
WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS GUARDED BY SUITABLE GUARDS OR BUSINGS, WOOD OR OTHER INSULATING MATERIALS, INSULATED PER 30 (INSULATED BUSBARS OPERATED AT 300 VOLTS OR LESS SHALL NOT BE CONSIDERED LIVE PARTS).
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE, EXPOSED OR GUARDED BY INSULATION, WITH THE OPERATOR BETWEEN.

NOTE:
CONDITION 3 REQUIRES A MINIMUM OF 36 INCHES WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.

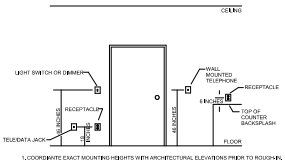


3 ELECTRICAL EQUIPMENT WORKING CLEARANCE
SCALE: NTS



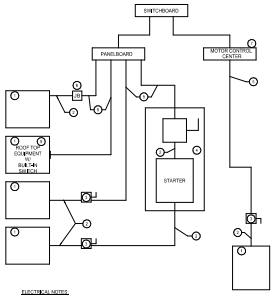
NOTE:
ELECTRICAL CODE, PER ARTICLE 110.26 OF THE NATIONAL ELAND PROVIDES ELECTRICAL EQUIPMENT EQUIPMENT FOR THE DAMPS, MACHINES, ETC., OVER AND ABOVE THE ELECTRICAL EQUIPMENT. THE ARCHITECT REQUIRES THE DEDICATED ELEVATOR THE MATERIAL.

4 ELECTRICAL EQUIPMENT DEDICATED SPACE
SCALE: NTS



1. COORDINATE EXACT MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

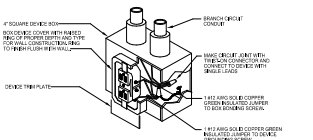
5 TYPICAL MOUNTING HEIGHT OF DEVICES
SCALE: NTS



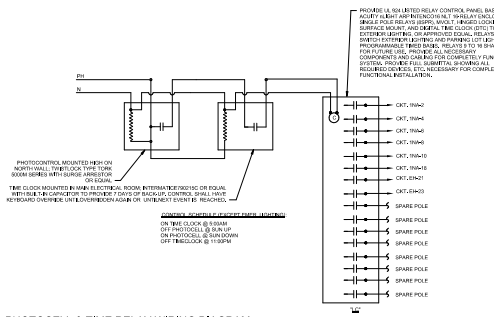
ELECTRICAL NOTES:

1. EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
2. CONDUIT & WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES.
3. IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
4. A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER LOCATE ADJACENT TO EQUIPMENT.
5. FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
6. JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER OR DISCONNECT IS SUPPLIED. A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX, LOAD SIDE WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
7. PROJECTS UTILIZING AN MCC, THE STARTER, CB OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
8. IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
9. IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.

8 ELECTRICAL CONNECTION COORDINATION
SCALE: NTS



6 RECEPTACLE GROUNDING DETAIL
SCALE: NTS



7 PHOTOCELL & TIME RELAY WIRING DIAGRAM
SCALE: 1/8" = 1'-0"

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Designed: DWN Drawn: DWN
Checked: JCA Date: 05/12/23
Project No. 0568140.08

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CFVH HARNETT MOB - Core & Shell

226 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

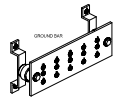
SHEET NAME:
ELECTRICAL - DETAILS

ORIG SUBMISSION: 2023-05-12

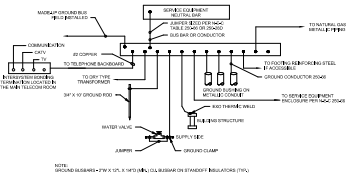
SHEET:
E500

100% CONSTRUCTION DOCUMENTS

BY12023 4:05:42 PM

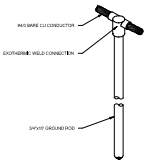


1 GROUND BAR DETAIL
SCALE: NTS



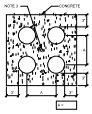
NOTE:
GROUND BUSBARS = 2"W X 1/4", X 14"D (MIN.) CU. BUSBAR ON STANDOFF INSULATORS (TYP.)

2 SERVICE EQUIPMENT GROUNDING DETAIL
SCALE: NTS



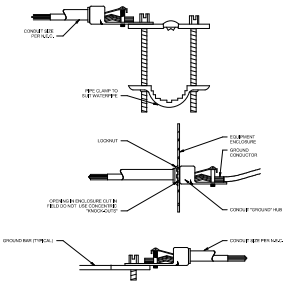
NOTES:
1. PROVIDE GROUNDING ELECTRODES WITH ACCESS WELLS, HAND-HOLES, OR BOLTED BRACKETS TO ALLOW FOR FUTURE INSPECTION, TESTING OR MAINTENANCE.

4 GROUND ROD DETIAL
SCALE: NTS

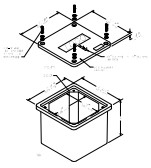


NOTES:
1. SEE TYPICAL DUCTBANK TRENCH DETAIL FOR ADDITIONAL REQUIREMENTS.
2. CONDUIT IS FOR DRAWING TO SCALE.
3. ALL CONDUITS SHALL BE SPACED AND WIRED WITHIN CONCRETE ALONG EXPIRED PATHWAY LENGTH, EXCEPTIONALLY CONNECT TO GROUND FIELD WALL, THE GROUNDING WILL BE ACCEPTED TO ANY GROUNDED (NEUTRAL) AND GROUNDING CONDUCTORS REQUIRED TO BE INSTALLED WITHIN THE CONCRETE ENCASEMENT. THE GROUNDING CONDUCTOR SHALL BE THREE THREE THROUGH THE DUCT SPACERS TO PREVENT FULL ELECTRICAL POWER DUCTBANK DISCL.

5 4-WAY DUCTBANK DIAGRAM
SCALE: NTS



6 GROUNDING CONDUCTOR TERMINATION DETAIL
SCALE: NTS



MANUFACTURER: QUAZITE OR APPROVED EQUAL
NOTE: BOXES SHALL BE UL LISTED TO MEET ANSI/SCTE 77 2017 REQUIREMENTS.

INSTALLATION:
1. EXCAVATE APPROXIMATELY 58-60 INCHES DEEPER THAN THE DEPTH OF ENCLOSURE, ADD 6 INCH INCHES OF GRAVEL OR CRUSHED STONE TO THE BOTTOM.
2. CAREFULLY LOWER ENCLOSURE INTO HOLE UNTIL TOP IS AT GRADE LEVEL.
3. ADJUST TO GRADE. ENSURE TO GRADE LEVEL WITH SURROUNDING GRADE.
4. ADJUST TO CONFORM TO LANDSCAPE.

PAINTING:
1. MANUFACTURER'S LOGO "ELECTRIC"
2. BOX AND COVER SHALL BE GREEN.

ADDERS:

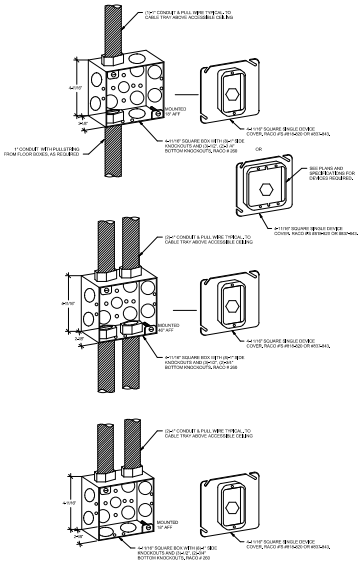
DESCRIPTION	PART NO.	WEIGHT
Heavy Duty Lid (Logo)	PC1012HDG	12# (5.4 kg)

REWORK (Standards):

DESCRIPTION	PART NO.	WEIGHT	DIMENSIONS
			X
Mr No Base	PC1012BHG	31# (14.1 kg)	12.34" (314 mm)

Dimensions in parentheses are metric equivalents.

7 TYPICAL HANDHOLE DETAIL
SCALE: NTS

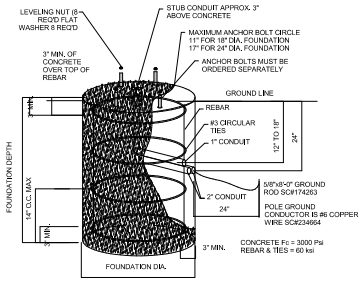


OTHER ACCEPTABLE MANUFACTURERS ARE: APPLETON, T&B, AND MIDLAND RIDGESTEEL, CEP.

NOTES:

1. CONTRACTOR PROVIDE WALL BOXES AND CONDUIT ONLY. CONTRACTOR TO EXTEND AND TURN OUT ABOVE CEILING ON AN ACCESSIBLE SPACE ABOVE ADJACENT CEILING TILE. PROVIDE PULL WIRE IN CONDUIT BY TELECOMMUNICATIONS CONTRACTOR.
2. BOX AND FIRE NUMBERS SHOWN FOR STUD WALL CONSTRUCTION.
3. SUBSTITUTE MASONRY BOX EQUIVALENT WHERE LOCATED IN CMU OR CONCRETE WALLS.

3 TELE/DATA OUTLET BOX DETAIL
SCALE: NTS



NOTE TO CONTRACTOR: THIS DETAIL DEVELOPED BY DUKE ENERGY IS FOR GENERAL REFERENCE ONLY AND MAY NOT BE COMPATIBLE WITH SPECIFIED LIGHT/CAMERA POLES OR THE REQUIRED MOUNTING CONFIGURATION. THIS DETAIL IS TO BE SUPERCEDED BY BASE DETAILS PROVIDED BY POLE MANUFACTURER AND/OR LIGHTING / SECURITY DESIGNER

A	18"	30"	4 #5x22" LG	3 #3x12" BC 14" O.C. MAX	.2
B	24"	30"	4 #5x22" LG	3 #3x18" BC 14" O.C. MAX	.3
C	18"	42"	4 #5x35" LG	3 #3x12" BC 14" O.C. MAX	.3
D	18"	54"	4 #8x31" LG	5 #3x12" BC 14" O.C. MAX	.3
E	24"	54"	4 #8x31" LG	5 #3x18" BC 14" O.C. MAX	.6
F	18"	66"	4 #8x63" LG	5 #3x12" BC 14" O.C. MAX	.4
G	24"	66"	4 #8x63" LG	5 #3x18" BC 14" O.C. MAX	.7
H	24"	72"	4 #8x69" LG	5 #3x18" BC 14" O.C. MAX	.4

8 LIGHT POLE BASE
SCALE: NTS

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Designed: DWN Drawn: DWN
Checked: JCA Date: 05/12/23
Project No. 0560140.08

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CFVH HARNETT MOB - Core & Shell

225 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT 0402-225630

#	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL - DETAILS

ORIG SUBMISSION: 2023-05-12

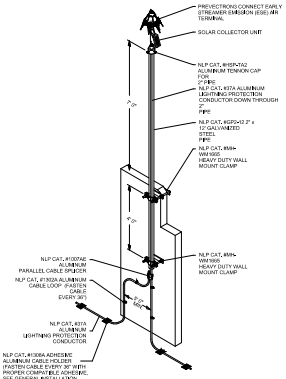
SHEET: E501

100% CONSTRUCTION DOCUMENTS

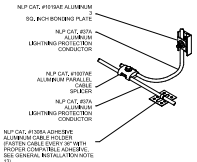
05/17/2023 8:06:42 PM

GENERAL INSTALLATION NOTES

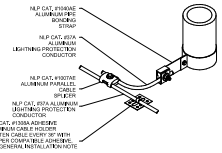
1. INSTALLATION SHALL CONFORM TO THESE DRAWINGS. ALL ALTERATIONS SHALL BE APPROVED BY THE DESIGNER BEFORE ALTERATIONS.
2. FIELD VERY PROTECTION REQUIREMENTS AND COMMUNICATE ANY DISCREPANCIES AND/OR DEFICIENCIES WITH THE SYSTEM DESIGNER PRIOR TO INSTALLATION.
3. ACTUAL JOB SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS OF AIR TERMINAL, MAST AND BASE LOCATIONS. ANY ALTERATIONS SHALL BE APPROVED BY THE SYSTEM DESIGNER PRIOR TO THEIR EXECUTION.
4. NO BEND OF CONDUCTOR SHALL FORM A TRAP. INCLUDED ANGLE OF LESS THAN 90 DEGREES AND ALL BENDS SHALL HAVE A MINIMUM RADIUS OF 8 INCHES.
5. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED AT A MINIMUM OF EVERY 36 INCHES ON CENTER.
6. CONNECTIONS TO GROUND RODS OR GROUND LOOP SHALL BE MADE AT A POINT NO LESS THAN 24" AWAY FROM THE FOUNDATION OR FOOTING AND NOT LESS THAN 12" BELOW GRADE.
7. THE COMPLETE LIGHTNING PROTECTION GROUND SYSTEM SHALL HAVE NO MORE THAT 10 ohms OF RESISTANCE TO EARTH. ACHIEVED BY THE BEST FALL OF POTENTIAL METHOD.
8. ALL METAL BODIES OF CONDUCTANCE OR INDUCTANCE WITHIN 10' 6" OF A LIGHTNING PROTECTION CONDUCTOR SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM.
9. ALL INCOMING ELECTRICAL, TELEPHONE, DATA, RADIO, AND TELEVISION SERVICES SHALL BE EQUIPPED WITH SURGE SUPPRESSION DEVICES. SURGE SUPPRESSION DEVICES SHALL BE PROVIDED. SURGE SUPPRESSION DEVICES SHALL BE FURNISHED AND INSTALLED BY THE RESPECTIVE SYSTEM VENDOR, NOT NLP.
10. ALL POTENTIAL GROUND SOURCES THAT ENTER A STRUCTURE FROM BELOW GRADE EARTH MUST BE INTERCONNECTED TO THE LIGHTNING PROTECTION SYSTEM.
11. ALL REQUIRED 1" SCH 40 PVC CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT LOCATIONS DESIGNATED BY NLP. CONDUIT SHALL MAINTAIN A CONTINUOUS AND DIRECT ROUTE TO GROUND WITH NO BENDS EXCEEDING 45 DEGREES OF CUMULATIVE BEND IN ANY SINGLE RUN.
12. ALL REQUIRED SEALING AND/OR FLASHING OF ROOF PENETRATION SHALL BE FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR.
13. ANY ROOF PADS, PAVERS, SLIP SHEETS, BATTEN STRIPS, OR SPECIAL REQUIREMENTS OF THE ROOF SYSTEM MANUFACTURER FOR ROOF MOUNTED LIGHTNING PROTECTION EQUIPMENT SHALL BE FURNISHED.
14. ALL GROUNDING MATERIAL INSTALLATION SHALL BE COORDINATED WITH OTHER BELOW GRADE WORK TO AVOID INTERFERENCE.
15. THE LIGHTNING PROTECTION MAST AND MAST BASE INSTALLATION SHALL BE COORDINATED WITH THE PROJECT STRUCTURAL ENGINEER.
16. IT IS THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR TO REVIEW THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS TO ENSURE ALL NECESSARY MATERIALS ARE INCLUDED IN THEIR SCOPE OF WORK TO PROVIDE A COMPLETE ESTIMATE.
17. CAPART NUMBERS SHOWN ARE THOSE OF:
National Lightning Protection Corp.
4200 Commerce Ct. Suite 100
Boulder, Colorado 80301
(303) 286-7555 office
estimating@nlpcorp.com
www.lineprotectionsource.com



SCREENWALL LIGHTNING PROTECTION POLE
NOT TO SCALE



ROOFTOP BONDING
NOT TO SCALE



PIPE BONDING
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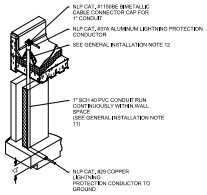
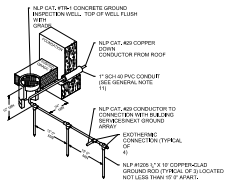
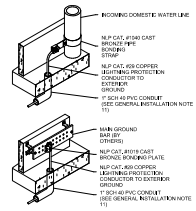


DOWNLEAD; ROOF TO GROUND
NOT TO SCALE



GROUND ARRAY DETAIL
NOT TO SCALE



POTENTIAL EQUALIZATION
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL SEAL 053121 ENGINEER JACK C. ALONEO

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CFVH HARNETT MOB - Core & Shell

226 Bragg Blvd. Drive
Lillington, NC 27546

LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

SHEET NAME: ELECTRICAL - DETAILS

ORIG SUBMISSION: 2023-05-12

SHEET: **E502**

100% CONSTRUCTION DOCUMENTS

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FIRE ALARM

WALL	CEILING	DESCRIPTION
H (x)	(H) x	HORN AND STROBE FIRE ALARM SYSTEM. X = cd
S (x)	(S) x	SPEAKER AND STROBE FIRE ALARM SYSTEM. X = cd
H	(F) x	HORN ONLY, FIRE ALARM SYSTEM.
x	( ) x	FIRE ALARM STROBE ONLY DEVICE. X=cd
F		MANUAL FIRE ALARM PULL STATION
DD		DUCT DETECTOR, FURNISHED BY E.C. INSTALLED BY M.C. REQUIRED FOR ALL HVAC SYSTEM OVER 2000 CFM, COORDINATE FINAL COUNTS AND LOCATIONS WITH M.C.
L		FLUSH MOUNTED CEILING FIRE ALARM SYSTEM DUCT DETECTOR REMOTE TEST STATION AND ALARM INDICATING LAMP.
R		FIRE ALARM SYSTEM RELAY. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
SD		LOCAL 120v SMOKE DETECTOR.
S		SYSTEM SMOKE DETECTOR.
		SMOKE DETECTOR NOMENCLATURE: P PHOTOELECTRIC; I IONIZATION; R RELAY BASE
S		SYSTEM SMOKE DETECTOR WITH SOUNDER BASE
S #		SYSTEM SMOKE DETECTOR WITH STROBE BASE
SE		SYSTEM SMOKE DETECTOR FOR ELEVATOR RECALL.
HD		LOCAL 120v HEAT DETECTOR.
H		SYSTEM HEAT DETECTOR.
HR		SYSTEM HEAT DETECTOR. RATE OF RISE
HF #		SYSTEM HEAT DETECTOR. FIXED TEMP, #° = ACTIVATING TEMP
CO		CARBON MONOXIDE DETECTOR
CO2		CARBON DIOXIDE DETECTOR
FS		SYSTEM FIRE WATER FLOW MONITORING SWITCH.
TS		SYSTEM FIRE WATER TAMPER MONITORING SWITCH.
HO		MAGNETIC DOOR HOLD OPEN. PROVIDE 120v AND FIRE ALARM INTERFACE. HOLD OPEN WILL DE-ENERGIZE ALLOWING DOOR TO CLOSE WHEN FIRE ALARM IS ACTIVATED
FACP		FIRE ALARM CONTROL PANEL
FAA		FIRE ALARM ANNUNCIATOR PANEL
FAPS		FIRE ALARM POWER SUPPLY
FATC		FIRE ALARM TERMINAL CABINET
CM		FIRE ALARM ADDRESSABLE CONTROL MODULE
MM		FIRE ALARM ZONE INTERFACE MODULE WITH RELAY
PS		PRESSURE SWITCH FOR DRY TYPE SPRINKLER SYSTEM. FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
GDS		GAS DETECTION SYSTEM
MS		FIREMAN'S TWO-WAY COMMUNICATION SYSTEM MASTER STATION.
CS		FIREMAN'S TWO-WAY COMMUNICATION SYSTEM CALL STATION.
FSD Z DD CM		FIRE SMOKE DAMPER (BY MC). PROVIDE DUCT DETECTOR, 120V POWER, CONTROL MODULE, & INTERFACE MODULE TO FIRE ALARM SYSTEM. COORDINATE FINAL COUNTS AND LOCATIONS WITH M.C.

MOUNTING HEIGHT SCHEDULE

HEIGHT	DEVICE
4-INCHES BELOW THE FINISHED CEILING TO TOP OF DEVICE AND NOT MORE THAN 12-INCHES TO BOTTOM OF DEVICE.	TOP OF WALL MOUNTED HEAT OR SMOKE DETECTORS
6'-8" AFF OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER (BOTTOM OF LENS; MIN.) 96-INCHES AFF MAXIMUM.	TOP OF FIRE ALARM HORNS/STROBES
6'-0"	TOP OF FIRE ALARM CONTROL PANEL
4'-0" MAX	TOP OF PULL HANDLE ON FIRE ALARM PULL STATIONS
0'-0"	FINISHED FLOOR

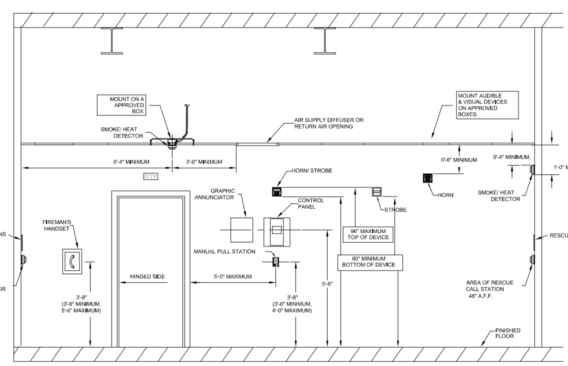
GENERAL NOTES

1. THE WIRING REQUIREMENTS CHANGE FROM MANUFACTURER TO MANUFACTURER. VERIFY WIRING WITH THE FIRE ALARM MANUFACTURER AND INSTALL AS DIRECTED AND APPROVED.
2. THE FIRE ALARM SYSTEM PRODUCT DATA INFORMATION, BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, INSTALLATION DRAWINGS AND DETAILS WILL BE PROVIDED AS A DEFERRED SUBMISSION TO THE FIRE ALARM PERMIT REVIEWER FROM THE CONTRACTOR AFTER THE FIRE ALARM SYSTEM VENDOR HAS SUBMITTED THE INFORMATION TO BE REVIEWED AND APPROVED BY THE ENGINEER.
3. SOUND PRESSURE COVERAGE THROUGHOUT THE BUILDING WILL BE DETERMINED AFTER THE FIRE ALARM SYSTEM HAS BEEN INSTALLED. ADDITIONAL DEVICES WILL BE ADDED IF THE COVERAGE IS DEEMED TO BE INADEQUATE BY THE INSPECTOR DURING THE FIRE ALARM SYSTEM TEST.
4. 25 PERCENT SPARE CAPACITY SHALL BE PROVIDED ON ALL NOTIFICATION APPLIANCE CIRCUITS FOR ANY ADDITIONAL DEVICES THAT MAY BE ADDED IN THE FUTURE. ALL EMPLOYEE WORK AREAS SHALL HAVE AUDIBLE AND VISUAL APPLIANCES.
5. ALL AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 DECIBELS ABOVE THE MAXIMUM SOUND LEVEL FOR A DURATION OF NOT LESS THAN 60 SECONDS, WHICHEVER IS GREATER. PER 907.5.2.1.1.

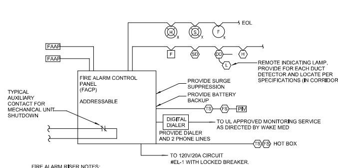
FIRE ALARM SHEET INDEX

FA104	FIRE ALARM - NEW WORK PLAN - ROOF LEVEL
FA001	FIRE ALARM DATA SHEET
FA101	FIRE ALARM - NEW WORK PLAN - LEVEL 1
FA102	FIRE ALARM - NEW WORK PLAN - LEVEL 2
FA103	FIRE ALARM - NEW WORK PLAN - LEVEL 3

INSTALLATION REQUIREMENTS



3 TYPICAL MOUNTING HEIGHT OF FIRE ALARM DEVICES
SCALE: NTS



FIRE ALARM RISER NOTES:

1. ALL CONDUCTORS SHALL BE IN METALLIC RACEWAYS. MC CABLE MAY BE USED IN CERTAIN LOCATIONS.
2. SEE PLANS FOR QUANTITY AND TYPE OF DEVICES. INITIATING DEVICES ARE: F D SD FS TS H DD . INDICATING DEVICES ARE: H x S x F x
3. UPON ACTIVATION OF ANY INITIATING DEVICE, ALL INDICATING DEVICES SHALL ANNUNCIATE AS DESCRIBED IN SPECIFICATIONS.
4. UPON ACTIVATION OF SMOKE DETECTOR ASSOCIATED WITH STAIRWELL,MAGNETIC DOOR HOLDERS SHALL RELEASE STAIRWELL DOORS ON BOTH LEVELS ABOVE AND BELOW.
5. UPON ACTIVATION OF SMOKE DETECTORS ASSOCIATED WITH ADJACENT DOOR HOLDERS ONLY THOSE PARTICULAR DOORS SHALL CLOSE.
6. UPON ACTIVATION OF ANY DUCT DETECTOR, ALL AIR HANDLING UNITS AND FAN COIL UNITS IN THE ASSOCIATED SMOKE ZONE ONLY SHALL AUTOMATICALLY SHUT DOWN. UPON ACTIVATION OF ALL OTHER INITIATING DEVICE, ALL AIR HANDLING UNITS AND FAN COIL UNITS SHALL AUTOMATICALLY SHUTDOWN.
7. SEE MECHANICAL DRAWINGS FOR SMOKE DAMPER LOCATIONS.
8. SEE MECHANICAL & ELECTRICAL PLANS FOR QUANTITY OF DUCT DETECTORS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO BID ANY DISCREPANCIES.
9. PROVIDE TEMPORAL FIRE ALARM EVACUATION TONE, SEE SPECIFICATIONS 283111.

2 FIRE ALARM RISER
SCALE: NTS

MATRIX - SPRINKLED OFFICE BUILDING 6 STORIES OR LESS

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM OUTPUTS — FACP ANNUNCIATION | NOTIFICATION | REQUIRED FIRE SAFETY CONTROL

- A ACTUATE COMMON ALARM SIGNAL INDICATOR
- B ACTUATE AUDIBLE FIRE ALARM SIGNAL
- C ACTUATE AUDIBLE CARBON MONOXIDE ALARM SIGNAL
- D ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR
- E ACTUATE AUDIBLE SUPERVISORY SIGNAL
- F ACTUATE COMMON TROUBLE SIGNAL INDICATOR
- G ACTUATE AUDIBLE TROUBLE SIGNAL
- H ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR
- I ACTUATE GENERAL EVACUATION SIGNAL TEMPORAL 3
- J DISPLAY CHANGE OF STATUS
- K TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION
- L TRANSMIT CARBON MONOXIDE SIGNAL TO CENTRAL STATION
- M TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION
- N TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
- O TEMPORAL 4
- P RELEASE MAGNETICALLY HELD DOORS
- Q RECALL ELEVATOR TO RECALL FLOOR
- R RECALL ELEVATOR TO ALTERNATE RECALL FLOOR
- S ACTUATE WARNING TO ELEVATOR CABS
- T DELAYED REMOVAL OF POWER FROM ELEVATOR
- U UNLOCK EXITS AND CONTROL DOORS
- V SHUT DOWN RESPECTIVE AIR HANDLING EQUIPMENT
- W
- X
- Y
- Z

	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	X	Y	Z	
1	FIRE ALARM SYSTEM AC POWER FAILURE					●	●						●															1
2	FIRE ALARM SYSTEM LOW BATTERY					●	●						●															2
3	OPEN CIRCUIT					●	●						●															3
4	GROUND FAULT					●	●						●															4
5	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●						●															5
6	BUILDING MANUAL PULL STATIONS	●	●					●	●	●	●				●					●		●	●					6
7	CORRIDOR SMOKE DETECTORS	●	●					●	●	●	●				●	●				●		●	●					7
8	AREA SMOKE DETECTORS	●	●					●	●	●	●				●	●				●		●	●					8
9	HVAC AIR DUCT SMOKE DETECTORS			●	●			●				●									●	●	●					9
10	SPRINKLER TAMPER SWITCH			●	●			●				●																10
11	SPRINKLER WATER FLOW IN BUILDING	●	●					●	●	●	●				●	●				●								11
12	SPRINKLER WATER FLOW IN ELEV SHAFT	●	●					●	●	●	●				●	●		●	●	●								12
13	ELEV SHAFT AREA SMOKE DETECTOR	●	●					●	●	●	●				●	●		●		●		●	●					13
14	ELEV SHAFT HEAT DETECTORS	●	●					●	●	●	●				●	●		●	●	●		●	●					14
15	ELEV LOBBY SMOKE DETECTORS - UPPER FLOORS	●	●					●	●	●	●				●	●				●		●	●					15
16	ELEV LOBBY SMOKE DETECTOR - RECALL FLOOR	●	●					●	●	●	●				●		●	●		●		●	●					16
17	ELEV CONTROLLER POWER SHUNT TRIP STATUS			●	●			●				●																17
18	CARBON MONOXIDE									●				●														18
19	-																											19
20	-																											20
21	-																											21
22	-																											22
23	-																											23
24	-																											24
25	-																											25
26	-																											26
27	-																											27

1 FIRE ALARM MATRIX
SCALE: NTS

McKIM&CREED
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Raleigh, NC 27606
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Designed OWN Drawn OWN
Checked JCA Date 05/12/23
Project No. 05607-0028

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NORTH CAROLINA PROFESSIONAL SEAL 053121 ENGINEER JESSE C. ALONZO JR. 5/15/23

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225 Brightwater Drive
Lillington, NC 27546
LS3P PROJECT: 8403-225630

Δ	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM DATA SHEET

ORIG SUBMISSION: 2023-05-12

SHEET:
FA001

100% CONSTRUCTION DOCUMENTS

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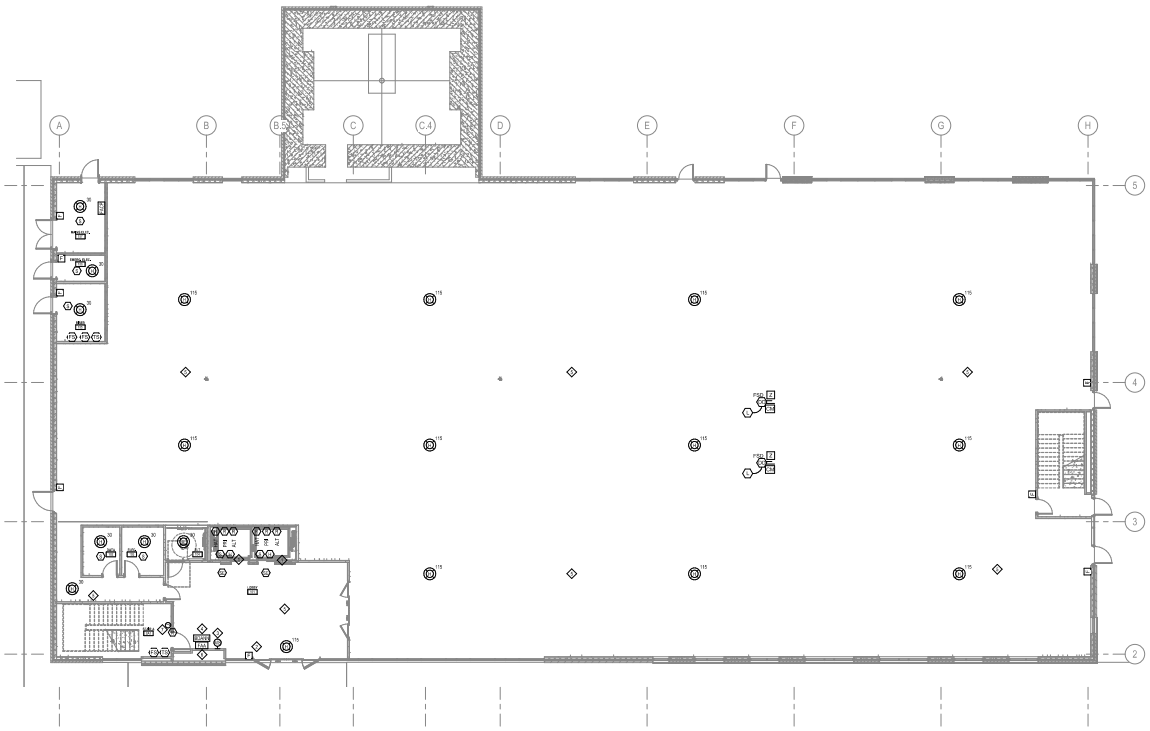

1 FIRE ALARM FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

FA101 - KEYED NOTES

1. PROVIDE ELEVATOR RELAYS FOR PRIMARY ELEVATOR RECALL, ALTERNATE ELEVATOR RECALL, AND ELEVATOR FIRE HAT. PROVIDE 135 DEGREE C ADDRESSABLE HEAT DETECTOR WITHIN 24" OF SPRINKLER HEAD IN ELEVATOR PIT TO CONTROL SHUNT TRIP BREAKER FOR ELEVATOR. PROVIDE ADDRESSABLE RELAY AND CONTROL RELAY AS REQUIRED FOR PROPER OPERATION OF ELEVATOR SHUNT TRIP. FIRE ALARM PROGRAMMING SHALL INCLUDE NECESSARY DELAY TO ASSURE ELEVATOR IS RETURNED TO RECALL FLOOR PRIOR TO SHUNTING POWER TO CONTROLLER. COORDINATE WITH ELEVATOR CONTRACTOR.
2. MOUNT MANUAL PULL STATION IN MULLION WITHIN 60" OF EXIT DOOR. COORDINATE WITH ARCHITECT.
3. PROVIDE CALL BOX MASTER STATION AS PART OF A TWO-WAY FIREMAN'S COMMUNICATION SYSTEM IN LOCATION SHOWN AND INSTALLED PER IBC 1009.8.1 AND 1009.8.2.
4. PROVIDE BI-DIRECTIONAL AMPLIFIER (BDA) SYSTEM ANNUNCIATOR (BDA SYSTEM PER SPECIFICATION 28 05 05).
5. FIRE ALARM SYSTEM DESIGN IS BASED ON A MAXIMUM CEILING HEIGHT OF 20'-0" AFF.
6. PROVIDE FIRE ALARM ANNUNCIATOR (DIGITAL FIRE ALARM ADDRESSABLE SYSTEM PER SPECIFICATION 28 31 11).
7. JUNCTION BOX AND RELAY FOR DOOR HARDWARE, OVERRIDE RELAY TO HOLD DOOR IN THE OPEN POSITION. CONTRACTOR TO PROVIDE ADDRESS FOR RELAY TO FIRE ALARM CONTROL PANEL.

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CFVH HARNETT MOB - Core & Shell

226 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT 5402-225630

△	DATE	DESCRIPTION

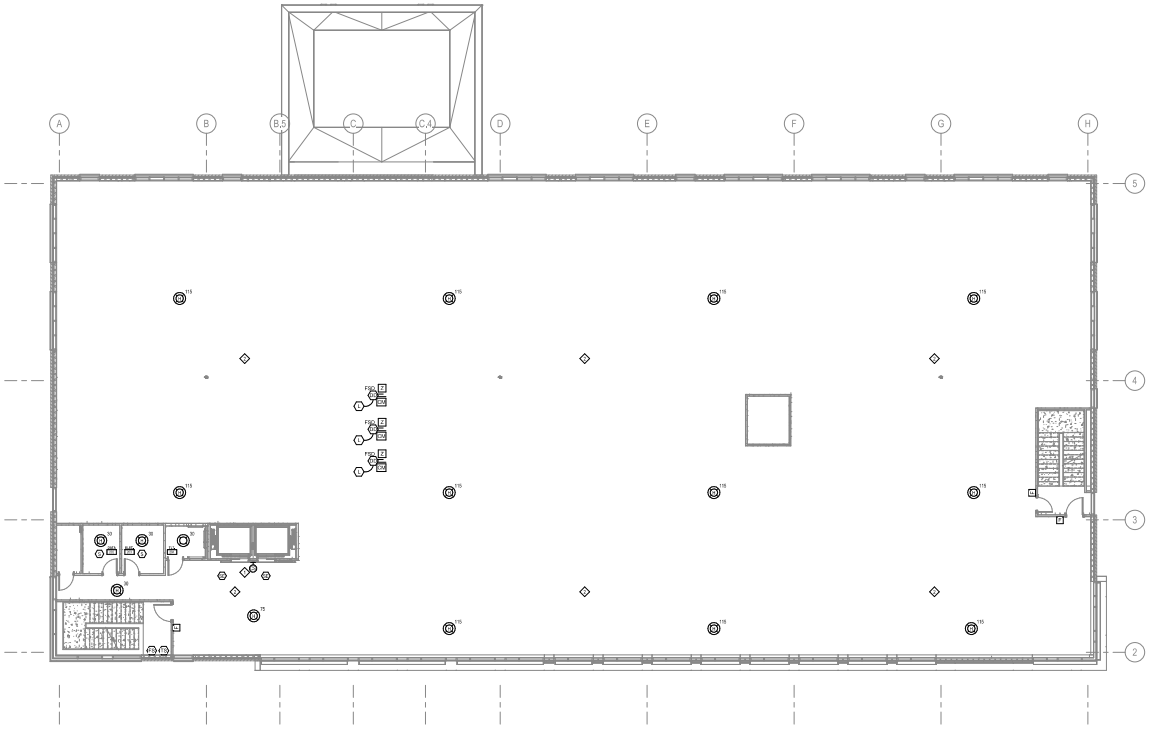
SHEET NAME:
FIRE ALARM - NEW WORK PLAN - LEVEL 1

ORIG SUBMISSION: 2023-05-12

SHEET:
FA101

100% CONSTRUCTION DOCUMENTS

5/11/2023 3:55:47 PM



1 FIRE ALARM SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

FA102 - KEYED NOTES

1. PROVIDE CALL BOX CALL CENTER AS PART OF A TWO-WAY FIREMAN'S COMMUNICATION SYSTEM IN LOCATION SHOWN AND INSTALLED PER IBC 1009.8.1 AND 1009.8.2.
2. FIRE ALARM SYSTEM DESIGN IS BASED ON A MAXIMUM CEILING HEIGHT OF 20'-0" AFF.

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Checked: JCA Date: 05/12/23
Project No. 0568140.08

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CFVH HARNETT MOB - Core & Shell

225 Brightwater Drive
Lillington, NC 27546

LS3P PROJECT: 0402-225630

△	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM - NEW WORK PLAN - LEVEL 2

ORIG SUBMISSION: 2023-05-12

SHEET:
FA102

100% CONSTRUCTION DOCUMENTS

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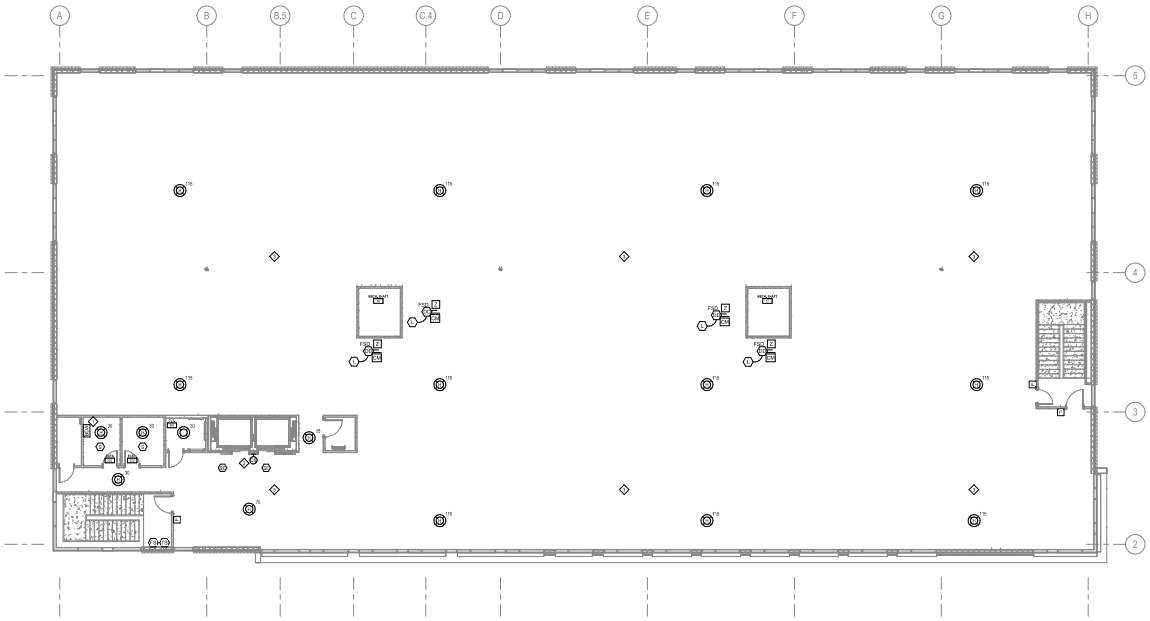

1 FIRE ALARM THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

FA103 - KEYED NOTES

1. PROVIDE A BDA PANEL (BDA SYSTEM PER SPECIFICATION 28 05 00).
2. PROVIDE CALL BOX CALL CENTER AS PART OF A TWO-WAY FIREMAN'S COMMUNICATION SYSTEM IN LOCATION SHOWN AND INSTALLED PER IBC 1006.8.1 AND 1009.8.2.
3. FIRE ALARM SYSTEM DESIGN IS BASED ON A MAXIMUM CEILING HEIGHT OF 20'-0" AFF.

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Designed: DWN Drawn: DWN
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LS3P PROJECT: 0402-225630

△	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM - NEW WORK PLAN - LEVEL 3

ORIG SUBMISSION: 2023-05-12

SHEET:
FA103

100% CONSTRUCTION DOCUMENTS

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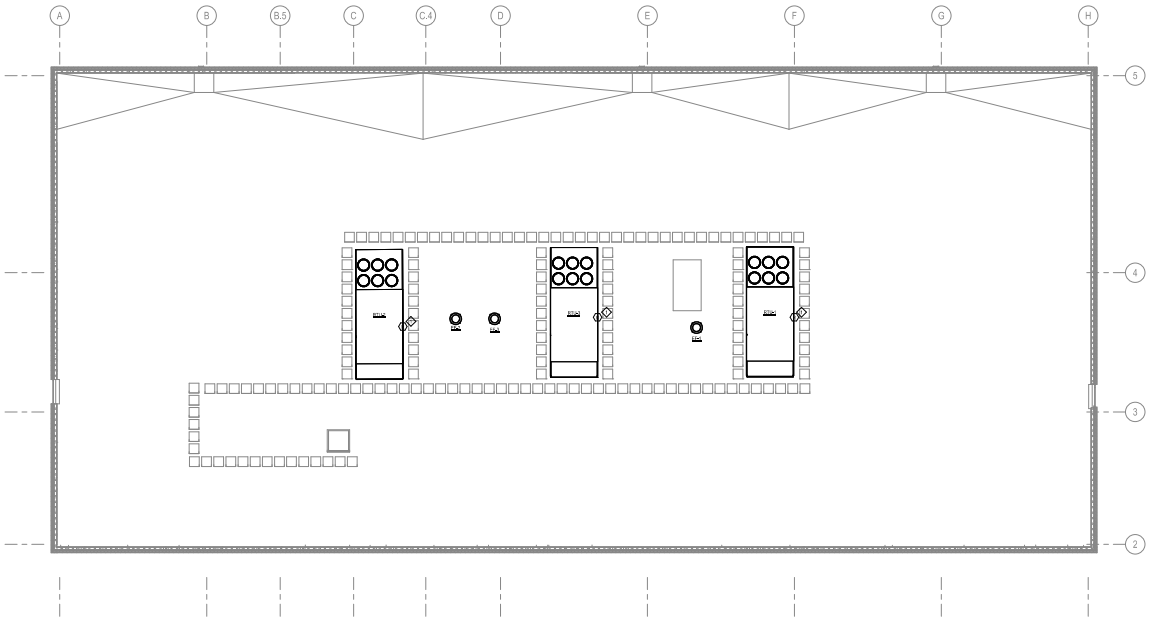

1 FIRE ALARM ROOF PLAN
SCALE: 1/8" = 1'-0"

FA104 - KEYED NOTES

1 CONTRACTOR SHALL PROVIDE SHUTDOWN RELAYS FOR HVAC RTU VFDS. DEVICES SHALL BE LOCATED WITHIN THREE (3) FEET OF DEVICE THE RELAY CONTROLS

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LS3P PROJECT 5402-225630

#	DATE	DESCRIPTION

SHEET NAME:
FIRE ALARM - NEW WORK PLAN - ROOF LEVEL

ORIG SUBMISSION: 2023-05-12

SHEET: **FA104**

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