

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
PROVIDE LIGHTING	
	LED LIGHTING FIXTURE (-) INDICATES BRACKET, WALL MOUNTED FIXTURES). REFER TO LIGHTING FIXTURE SCHEDULE ON EL601. COORDINATE EXACT LOCATION OF CEILING MOUNTED FIXTURES WITH ARCHITECTURAL CEILING PLANS.
	SHADING OF ANY FIXTURE INDICATES EMERGENCY EGRESS FIXTURE TO BE CONNECTED TO GENERATOR AND EMERGENCY RELAY OR UL924 DEVICE PER PLANS. "NL" SUBSCRIPT INDICATES UNSWITCHED, ALWAYS ON / NIGHT LIGHT FIXTURE. "LOWERCASE (a)" SUPERSCRIPIT INDICATES SWITCHING ZONE FOR CONTROL SWITCH. SEE EL601 FOR ADDITIONAL INFORMATION.
	EXIT LIGHTING FIXTURE. ARROW, WHEN USED, INDICATES DIRECTION. (-) INDICATES BRACKET, WALL MOUNTED FIXTURES). FILLED IN QUADRANT(S) OF SYMBOL INDICATES NUMBER AND ORIENTATION OF ILLUMINATED FACES. "WG" SUBSCRIPT TO DENOTE WIREGUARD. (SEE LEGEND NOTE 3)
	UL924 LISTED EMERGENCY RELAY TRANSFER SWITCH. EMERGENCY POWER CONTROLLER. PROVIDE DIMMING TRANSFER SWITCH AS REQUIRED PER SWITCHING TYPE IN EACH RESPECTIVE SPACE. MOUNT ABOVE CEILING SYSTEM AS APPLICABLE IN AN ASSESSIBLE LOCATION. UON, MOUNT IN AN INCONSPICUOUS LOCATION IN EXPOSED LOCATIONS, UON.
S	SINGLE POLE SWITCH, 20 A, 120/277 V, MOUNT 48" AFF UON.
SL	DIGITAL LIGHTING MASTER OVERRIDE SWITCH, 6-BUTTON, SEE DETAIL D1 ON SHEET EL602 FOR ADDITIONAL INFORMATION.
S3	THREE-WAY SWITCH, 20 A, 120/277 V, MOUNT 48" AFF UON.
S4	FOUR-WAY SWITCH, 20 A, 120/277 V, MOUNT 48" AFF UON.
SD	DIMMER SWITCH, (WATTAGE AS REQUIRED TO CONTROL THE FIXTURE(S) CONNECTED UON.), MOUNT 48" AFF UON.
SG	GOAL WINCH CONTROLLER. REFER TO DETAIL D2 ON SHEET EL602 FOR ADDITIONAL INFORMATION.
SoD	COMBINATION DUAL TECHNOLOGY OCCUPANCY SENSOR AND DIMMER SWITCH, MOUNT 48" AFF UON.
So	COMBINATION DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, MOUNT 48" AFF UON.
SPo	DIGITAL CONTROL PANEL OVERRIDE SWITCH. SWITCH TO OVERRIDE LIGHTS IN AREA FOR 2 HOURS (MAXIMUM), WALL MOUNTED 48" AFF, UON.
	DUAL TECHNOLOGY OCCUPANCY SENSOR, 277VAC, CEILING MOUNTED. (-) INDICATES BRACKET, WALL MOUNTED FIXTURES). SEE LEGEND NOTE 5.
	DUAL TECHNOLOGY VACANCY SENSOR, 277VAC, CEILING MOUNTED. (-) INDICATES BRACKET, WALL MOUNTED FIXTURES). SEE LEGEND NOTE 5.
POWER DEVICES	
GFI	DUPLEX CONVENIENCE RECEPTACLE, 20 A, 125 VAC, MOUNT + 18" AFF UON. SUPERSCRIPIT TO INDICATE: "WP" = INDICATES WEATHERPROOF WHILE IN USE OUTLET WITH COVER. "GFI" = INDICATES RECEPTACLE WITH INTERNAL GROUND FAULT PROTECTION. "TR" = INDICATES TAMPER-RESISTANT. "TV" = MOUNTED 82" AFF. COORDINATE FINAL HEIGHT AND LOCATION WITH TOUCHSCREEN LOCATION. "EWC"= ELECTRONIC WATER COOLER.
	RECEPTACLE AS NOTED ABOVE BUT, MOUNT 42" AFF OR 6" ABOVE BACKSPASH OR COUNTER TOP WHERE COUNTER IS INDICATED. GFI INDICATES GROUND FAULT INTERRUPTOR.
	QUADRUPLEX CONVENIENCE RECEPTACLE MOUNTED IN TWO-GANG OUTLET BOX - EACH RATED 20A, 125 VOLTS WITH SINGLE COVER PLATE, MOUNT 18" AFF, UON.
	SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AS NOTED.
	SPECIAL PURPOSE FLOOR BOX. RUN 1" CONDUIT FROM PANEL TO END USE LOCATION PER PLANS. NEMA CONFIGURATION AS NOTED. COORDINATE WITH MANUFACTURER'S PLUG TYPE PRIOR TO INSTALLATION.
TELEPHONE, DATA, AND MISC SYSTEMS	
	TELEPHONE OUTLET, MOUNT 18" AFF UON. PROVIDE 4X4 JUNCTION BOX WITH SINGLE GANG PLASTER RING WITH 1" CONDUIT TO NEAREST CABLE TRAY OR PULLBOX. (2) INDICATES NUMBER OF POTS LINES.
	(2) PORT DATA OUTLET, MOUNT 80" AFF, UON PROVIDE 4X4 JUNCTION BOX WITH SINGLE GANG PLASTER RING WITH 1" CONDUIT TO NEAREST CABLE TRAY OR PULLBOX WITH PULLSTRING. SUBSCRIPT TO INDICATE THE BELOW: TS = TOUCHSCREEN, MOUNT AT 82" AFF. WAP = WIRELESS ACCESS POINT. MOUNT TO CEILING SYSTEM IN AREA EXCEPT WALL MOUNTED AS SHOWN IN MEDIA CENTER AND DINING ROOM.
	DOORBELL PROVIDE A COMPLETE WORKING NUTONE (OR EQUIVALENT) WIRED DOORBELL SYSTEM COMPLETE WITH WIRING, CONDUIT, AND TRANSFORMER FOR CHIME. MOUNT CHIME IN A LOCATION WHERE CAN BE HEARD THROUGHOUT PREP AND OFFICE AREAS.
	3/4" PLYWOOD BACKBOARD, TO COVER 3 WALLS OF TELECOMIT ROOMS EXCEPT ON WALL WITH DOOR.
	IN-WALL RECESSED SPEAKER FOR AUDIO/VISUAL USE. PROVIDE 4X4 JUNCTION BOX WITH 1" CONDUIT AND PULLSTRING TO NEAREST AV CONTROLLER.
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	STANDARD 42U FLOOR MOUNTED RACK. BY OWNER.
EQUIPMENT CONNECTIONS	
	EQUIPMENT CONNECTION AS NOTED
	JUNCTION BOX
	MOTOR CONNECTION AS NOTED. PROVIDE 4X4 JUNCTION BOX WITH 1" CONDUIT TO POWER PANELBOARD WITH PULL STRING. DISCONNECT SWITCH, 600 V IN NEMA 1 ENCLOSURE UON 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE) (SEE LEGEND NOTE 4)
	ENCLOSED CIRCUIT BREAKER 480V IN NEMA 1 ENCLOSURE 14 KAIC UON 3P = NO. OF POLES, 100 = FRAME RATING, 40 = TRIP RATING (SEE LEGEND NOTE 4)
	DISCONNECT SWITCH PROVIDED INTEGRAL WITH EQUIPMENT.
	VARIABLE FREQUENCY DRIVE CONNECTION (DRIVE FURNISHED WITH EQUIPMENT)
	MOTOR RATED SWITCH
	HEAVY-DUTY BOLLARD FOR CARD READER AND/OR ADA PUSH PLATE MOUNTING WHERE WALL MOUNTING IS NOT FEASIBLE. "PP" TO REPRESENT WALL MOUNTED ADA PUSH PLATE.

ELECTRICAL ABBREVIATIONS

A	AMPERE	MCB	MAIN CIRCUIT BREAKER
A/C	AIR CONDITIONING	MH	MANHOLE
AV	AUDIO/VISUAL	MLO	MAIN LUG ONLY
AF	AMPERE FRAME	MSB	MAIN SWITCHBOARD
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE	MTG HT	MOUNTING HEIGHT
AHU	AIR HANDLING UNIT	N/C	NORMALLY CLOSED
ARCH	ARCHITECTURE	NEC	NATIONAL ELECTRICAL CODE
AT	AMPERE TRIP	NF	NON-FUSED
AWG	AMERICAN WIRE GAUGE	N/O	NORMALLY OPEN
BAS	BUILDING AUTOMATION SYSTEM	NESC	NATIONAL ELECTRICAL SAFETY CODE
BG	BELOW GRADE	N2A	NET 2 AIR
BLDG	BUILDING	NEU	NEUTRAL
BMS	BUILDING MANAGEMENT SYSTEM	NIC	NOT IN CONTRACT
BRKR	BREAKER	P	POLE
C	CONDUIT	PH	PHASE
CB	CIRCUIT BREAKER	PNL	PANEL
CCT	CIRCUIT	POTS	PLAIN OLD TELEPHONE SERVICE
DCU	DOOR CONTROL UNIT	PVC	POLY VINYL CHLORIDE
DISC SW	DISCONNECT SWITCH	QTY	QUANTITY
DT	DRY TYPE	RCPT	RECEPTACLE
DWG	DRAWING	REQD	REQUIRED
EC	EMPTY CONDUIT	RPZ	REDUCED PRESSURE ZONE
EF	EXHAUST FAN	SC	SPLIT CIRCUIT (SEE LEGEND NOTE 2)
EMT	ELECTRICAL METALLIC TUBING	SF	SUPPLY FAN
EQUIP	EQUIPMENT	SIN	SOLID NEUTRAL
EWC	ELECTRIC WATER COOLER	SPD	SURGE PROTECTIVE DEVICE
EWH	ELECTRIC WATER HEATER	SW	SWITCH
FACP	FIRE ALARM CONTROL PANEL	TEL	TELEPHONE
FC	FOOTCANDLE	TGB	TELECOMMUNICATIONS GROUND BUS
FCU	FAN COIL UNIT	TGMB	TELECOMMUNICATIONS MAIN GROUND BUS
FLA	FULL LOAD AMPS	TTB	TELEPHONE TERMINAL BOARD
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	UH	UNIT HEATER
GRS	GALVANIZED RIGID STEEL	UG	UNDERGROUND
GTD	GENERATOR TRANSFER DEVICE	UON	UNLESS OTHERWISE NOTED
HCPS	HENDERSON COUNTY PUBLIC SCHOOLS	UP	UNDERGROUND POWER
		V	VOLTS
HH	HANDHOLE	VAC	VOLTS ALTERNATING CURRENT
HP	HORSEPOWER	VDC	VOLTS DIRECT CURRENT
KAIC	THOUSAND AMP INTERRUPTING CAPACITY, RMS SYMMETRICAL	W	WIRE
		WH	WATER HEATER
KCMIL	THOUSAND CIRCULAR MILS	TEL	INDICATES WEATHERPROOF EQUIPMENT
KWH	KILOWATT HOUR	XFMR	TRANSFORMER
KVA	KILOVOLT AMPERE		
LAN	LOCAL AREA NETWORK		
LTG	LIGHTING		

LEGEND NOTES

- WIRE AND CONDUIT FOR MOTOR AND EQUIPMENT LOADS SHALL BE CONTINUOUS IN SIZE AND COUNT FROM SOURCE TO FINAL CONNECTION. SIZE AND COUNT SHALL BE AS INDICATED ON THE CIRCUIT HOMERUN UNLESS OTHERWISE NOTED.
- WHERE BRANCH CIRCUIT HOMERUNS ARE LABELED "SPLIT CIRCUIT" (SC), THE BRANCH CIRCUIT NUMBER INDICATED HAS BEEN USED ON MORE THAN ONE HOMERUN INDICATOR. INSTALL ONLY ONE CONDUCTOR PER CIRCUIT BREAKER POLE WITHIN THE PANELBOARD ENCLOSURE. SPLICES NECESSARY TO COMPLY WITH THIS REQUIREMENT SHALL BE MADE IN A SEPARATE SPLICE BOX OUTSIDE THE PANELBOARD ENCLOSURE.
- BRANCH CIRCUIT WIRING TO EXIT LIGHT FIXTURES AND TO THE BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS SHALL BE UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHES.
- A (1) IN THE FUSE RATINGS OR TRIP RATING POSITION FOR THIS SYMBOL INDICATES PROVIDE FUSE OR BREAKER TRIP RATING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.
- PROVIDE QUANTITY OF OCCUPANCY SENSOR UNITS SHOWN ON DRAWINGS AS A MINIMUM. PROVIDE ADDITIONAL UNITS TO GIVE FULL COVERAGE OVER CONTROLLED AREA. FULL COVERAGE SHALL PROVIDE HAND AND ARM MOTION DETECTION FOR OFFICE AND ADMINISTRATION TYPE AREAS AND WALKING MOTION FOR STORAGE ROOMS, CORRIDORS, ETC. LOCATE SENSOR(S) AS INDICATED AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO MAXIMIZE ENERGY SAVINGS AND TO AVOID NUISANCE ACTIVATION AND DEACTIVATION DUE TO SUDDEN TEMPERATURE OR AIRFLOW CHANGES AND USAGE.

GENERAL NOTES

- WIRING SHALL BE IN CONDUIT. MINIMUM SIZE ONE-HALF (1/2) INCH WITH LARGER SIZES AS INDICATED OR REQUIRED BY NEC.
- WIRE AND CABLE SHALL BE #12 AWG MINIMUM.
- OPENINGS CREATED IN A FIRE OR SMOKE RATED WALL OR FLOOR BY PROVISION OF ANY ELECTRICAL DEVICE OR CONDUIT, SHALL BE SEALED AFTER THE WORK IS COMPLETED WITH A UL APPROVED FIRE/SMOKE SEALANT APPROPRIATE TO RE-ESTABLISH THE PREVIOUS RATING OF THE WALL OR FLOOR. SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS/FLOORS AND THEIR RATING. SEE A2, A3, AND A5 ON THIS SHEET.
- COORDINATE EXACT LOCATION OF CEILING MOUNTED LIGHTING FIXTURES, WIRELESS ACCESS POINTS, SECURITY CAMERAS, AND SPEAKERS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- PROVIDE QUANTITY AND SIZED PULL BOX IN ACCORDANCE WITH THE NEC. PULL BOXES SHOWN ARE FOR TELECOM TRAY AND CONDUIT ROUTINGS ONLY. EXPOSED AREAS SHALL BE RUN IN CONDUIT. ACCESSIBLE AREAS SHALL BE RUN IN 12"x8" BASKET CABLE TRAY. INACCESSIBLE AREAS WILL BE RUN IN CONDUIT WITH ACCESS PANELS AS REQUIRED. KEEP CONDUIT TIGHT TO STRUCTURE AND BENT IN 90 DEGREE TURNS.
- ALL BRANCH CONDUIT ROUTING IN AREAS OF EXPOSED CEILINGS SHALL BE RUN ON THE TOP OF THE DECK IN THE SAME PLANE AS THE ROOF INSULATION. JUNCTION BOXES SHALL BE FLUSH WITH ROOF UNDERLAY. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
- TELECOM CABLE TRAY AND CONDUIT ROUTING SHOWN ON PLANS IS BASED ON THE PRELIMINARY DESIGNED MODEL. CONTRACTOR TO ROUTE WIREWAY(S) HOWEVER DEEMED APPROPRIATE PER SPECIFICATIONS AND BASED ON CONSTRUCTED FIELD CONDITIONS. ABOVE CEILING ROUTING TO BE COORDINATED WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE:	<input checked="" type="checkbox"/> PRESCRIPTIVE	<input type="checkbox"/> PERFORMANCE
ASHRAE 90.1:	<input type="checkbox"/> PRESCRIPTIVE	<input type="checkbox"/> PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)

LAMP TYPE REQUIRED IN FIXTURE:	REFER TO FIXTURE SCHEDULE ON SHEET ELA101A
NUMBER OF LAMPS IN FIXTURE:	REFER TO FIXTURE SCHEDULE ON SHEET ELA101A
BALLAST TYPE USED IN FIXTURE:	REFER TO FIXTURE SCHEDULE ON SHEET ELA101A
NUMBER OF BALLAST IN FIXTURE:	REFER TO FIXTURE SCHEDULE ON SHEET ELA101A
TOTAL WATTAGE PER FIXTURE:	REFER TO FIXTURE SCHEDULE ON SHEET ELA101A
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (WHOLE BUILDING):	50,401 WATTS SPEC. VS. 57,917 WATTS ALLOWED
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED:	3,770 WATTS SPEC. VS. 5,351 WATTS ALLOWED

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
- 506.2.2 REDUCED LIGHTING POWER DENSITY
- 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
- 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
- 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
- 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEM

EDNEYVILLE ELEMENTARY SCHOOL

2875 FACE ROAD
HENDERSONVILLE, NC 28792

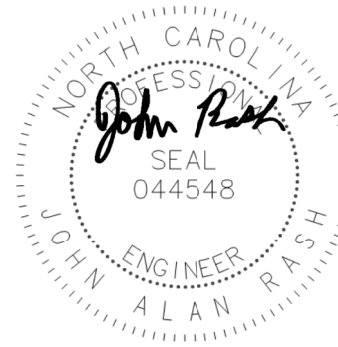
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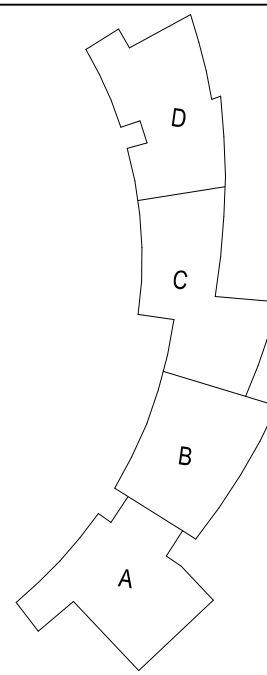
06.04.2018

ISSUED FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION

KEY PLAN



SHEET

ELECTRICAL LEGEND

E-001

DESIGN: JAR
DRAWN: JAR
REVIEW: PJR

NC
5199.D