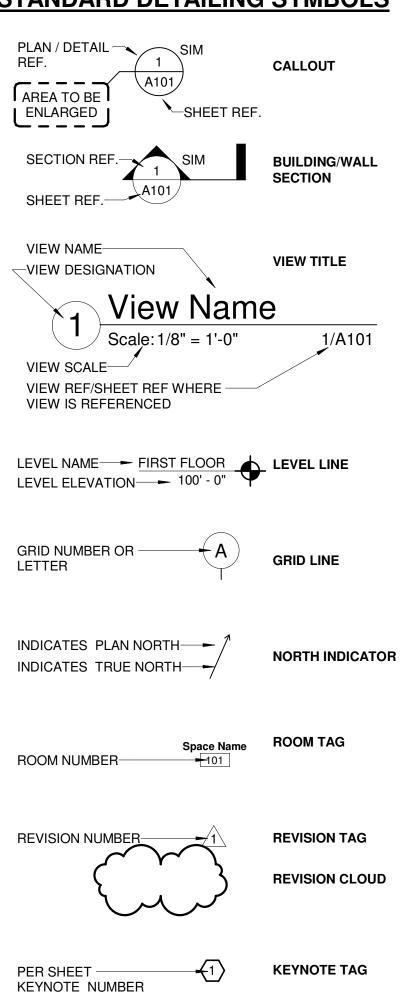
STANDARD	DETAILING	SYMBOLS



POINT INDICATED \rightarrow

REVISION CLOUD SPOT ELEVATION SYMBOL

CONNECT NEW TO EXISTING POINT OF DISCONNECTION

<u>ABBR</u>	EVIATIONS - ELECTRICAL
THIS IS A MASTI APPLY TO THIS	ER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT PROJECT.
A, AMP	AMPERE
A/C	AIR CONDITIONING
AAP	AREA ALARM PANEL
AC	ALTERNATING CURRENT
AC	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT OF 1990
AF	AMPERE FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	
AFG AFRMS	ABOVE FINISH GRADE ARC FLASH REDUCTION MAINTENANCE
AFRINS	SWITCH/SYSTEM
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AMPERE TRIP
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AWS	
BAS BAT	BUILDING AUTOMATION SYSTEM BATTERY
BF	BELOW FLOOR
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BRKR, BKR	
BTU	BRITISH THERMAL UNIT
С	CONDUIT
C/B, CB	CIRCUIT BREAKER
CATV	CABLE TELEVISION
CB	CRITICAL BRANCH
CBM	CERTIFIED BALLAST MANUFACTURER
CCTV	CLOSED CIRCUIT TELEVISION
cd CHWP	CANDELA CHILLED WATER PUMP
CHWF	CIRCUIT
CL	CENTERLINE
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CNT	CONTACTS
COL	COLUMN
COMB	COMBINATION MOTOR STARTER
COMM	COMMUNICATION
CONV	CONVENIENCE
CP	
CP	
CPT CRI	CONTROL POWER TRANSFORMER COLOR RENDERING INDEX
CSA	COLOR REINDERING INDEX CANADIAN STANDARDS ASSOCIATION
CT	CURRENT TRANSFORMER
CU	COPPER
CUH	CABINET UNIT HEATER
CWP	COLD WATER PUMP
D	DEPTH
DB	DUCTBANK
dB	DECIBEL
DC	DIRECT CURRENT
DD	DUCT DETECTOR
DET	DETECTOR
DIA DK	DIAMETER DARK
DK DN	DOWN
DR	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DTEN	DETENTION
DWG	DRAWING

ELECTRICAL SYMBOLS **LIGHTING**

ELECTRICAL SYMBOLS
POWER

SYMBOL DESCRIPTION							
CEILING MTD	NORMAL WALL MTD	EMERGENCY	POST MTD	FLOOR MTD			
\bigcirc	φ	Φ	ð	Ø	SIMPLEX OUTLETS	SUBSCRIPTS	
٢	φ	۵	8	Φ	DUPLEX OUTLETS	"AC" = ABOVE COUNTER "C" = SWITCH CONTROLLED	
۲	₩	#	\$		QUADRAPLEX OUTLETS	"GF" = GROUND FAULT "IG" = ISOLATED GROUND "UC" = UNDER COUNTER	
	₿	۵			220V OUTLETS	"USB"= W/ USB PORTS "WP" = WEATHERPROOF BOX	
0	Ø	₲			SPECIALTY OUTLETS (NEMA TYPE AS SHOWN)	"WR" = WEATHER RESISTANT	
C	Ū				JUNCTION BOX	SUBSCRIPTS	
					COMBINATION AV, DATA & POWER BOX 3/4"C FOR POWER UNO, 1-1/4"C FOR DATA UNO, 1-1/2"C FOR AV UNO	 "P" = FURNITURE POWER CONNECTION, 3/4"C UNO "T" = FURNITURE TELECOM CONNECTION, 1-1/4"C UNO "AV" = DEDICATED TO AUDIO/VISUAL, 1-1/2"C 	
		PT	<u> </u>	1	POWER/TELECOM POLE	UNO	
He is a second s					PUSH BUTTON	SUBSCRIPTS	
e A			EQUIPMENT CONNECTION	"ADA" = ADA COMPLIANT DOOR OPERATOR "EPO" = EMERGENCY POWER			
			CORD REEL	OFF "DO" = DOOR OPERATOR			
		MOTOR "HF" = HANDS FRI		"HF" = HANDS FREE			
\$ ^M (s					MANUAL MOTOR STARTER (SEE STARTER SCHEDULE	, FRACTIONAL HORSEPOWER FOR SIZE, ETC.)	
	DISCONNECTING MEANS FURNISHED BY DIV. 23, INSTALLED UNDER DIV. 26			TALLED UNDER DIV. 26			
	9)φ(P		SURFACE MOUNTED PLUGMOLD OR WIREMOLD (DEVICE QUANTITIES AND TYPES AS INDICATED)		
		HH			POWER/TELECOMMUNICATIONS HANDHOLE		
		MH			POWER/TELECOMMUNICATIONS MANHOLE		
ESSENTIAL BON- BON- BO			EQUENTIAL	POWER DISTR	IBUTION PANELS		
			WALL MOUNTED				
RECESSED							

	SYMB	OL	DESCF	RIPTION				
NORMAL	EMERGENCY	LIFE SAFETY						
			RECESSED LIGHT FIXTURE	- SIZE AND TYPE AS SHOW				
			PENDANT LIGHT FIXTURE -	SIZE AND TYPE AS SHOWN				
- - -		■	STRIP LIGHT FIXTURE - SIZ BRACKET INDICATES WALL					
\otimes	۲	•	CAN LIGHT					
Ō	Ö	ě	WALL SCONCE					
0	۲	•	SITE LIGHTING - BOLLARD	LIGHT				
$\bigcirc \textcircled{\bullet}$			SITE LIGHTING - POLE MOUNTED LIGHT HEAD QUANTITY AND ORIENTATION AS SHOWN					
®	()	I	SITE LIGHTING - IN/ON-GRADE ACCENT/SPOT LIGHT					
	‡⊗‡		CEILING MOUNTED EXIT SIGN FACES AND CHEVRONS AS SHOWN					
	‡® ‡		PENDANT MOUNTED EXIT SIGN FACES AND CHEVRONS AS SHOWN					
±⊗‡		‡ ∯‡	WALL MOUNTED EXIT SIGN FACES AND CHEVRONS AS					
			WALL MOUNTED COMBINA EMERGENCY LIGHT - FACE	TION EXIT SIGN AND S AND CHEVRONS AS SHOV				
			WALL MOUNTED EMERGEN	ICY LIGHT				
-Ş	~~~ ~	≫∽	TRACK LIGHT					
	\$		SWITCH	SUBSCRIPTS				
*		$\overline{\mathbb{A}}$	OCCUPANCY SENSORS	"a" = SWITCHED CIRCUIT "2" = 2 POLE				
&≁		₿	OCCUPANCY SENSORS (LONG RANGE)	"3" = 3-WAY "4" = 4-WAY "D" = DIMMER				
¢		坟	DAYLIGHT SENSORS	"K" = KEY OPERATED "LV" = LOW VOLTAGE				
*		*	PHOTOCELL "OS" = OCCUPAN DUAL TEC					
			LIGHTING CONTROL PANEL, SURFACE - TYPE (CONTACTOR, RELAY, ROOM CONTROLLER, ETC.) AS SHOWN	SINGLE RELAY "OS2"= OCCUPANCY SENS DUAL TECHNOLOG DUAL RELAY "OSD"= OCCUPANCY SENS DUAL TECHNOLOG DIMMER "P" = PILOT LIGHT				
RP-1			LIGHTING CONTROL PANEL, RECESSED - TYPE (CONTACTOR, RELAY, ROOM CONTROLLER, ETC.) AS SHOWN	"RO" = RELAY OVERRIDE "T" = TIMER "WP" = WEATHERPROOF				
			1	1				

ABBREVIATIONS - ELECTRICAL

THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT

EXISTING EACH EQUIPMENT BRANCH ELECTRICAL CONTRACTOR ENCLOSED CIRCUIT BREAKER EQUIPMENT CONTROL PANEL EXHAUST FAN EARTH, ELECTRICAL OR EQUIPMENT GROUND BAR EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC UNIT HEATER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW FULL LOAD AMPS	KVAR KW KWH L LED LFMC LP LR, LRB LRA LS, LSB LSIG LTG LTS LV LVRC MAN MANUF MANUF MANUF MATL MC MCA MCB MCC MCP MDP MECH
EQUIPMENT BRANCH ELECTRICAL CONTRACTOR ENCLOSED CIRCUIT BREAKER EQUIPMENT CONTROL PANEL EXHAUST FAN EARTH, ELECTRICAL OR EQUIPMENT GROUND BAR EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	KWH L LED LFMC LP LR, LRB LRA LS, LSB LSIG LTG LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
ELECTRICAL CONTRACTOR ENCLOSED CIRCUIT BREAKER EQUIPMENT CONTROL PANEL EXHAUST FAN EARTH, ELECTRICAL OR EQUIPMENT GROUND BAR EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	L LED LFMC LP LR, LRB LRA LS, LSB LSIG LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
ENCLOSED CIRCUIT BREAKER EQUIPMENT CONTROL PANEL EXHAUST FAN EARTH, ELECTRICAL OR EQUIPMENT GROUND BAR EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LED LFMC LP LR, LRB LRA LS, LSB LSIG LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
EQUIPMENT CONTROL PANEL EXHAUST FAN EARTH, ELECTRICAL OR EQUIPMENT GROUND BAR EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LFMC LP LR, LRB LRA LS, LSB LSIG LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
EXHAUST FAN EARTH, ELECTRICAL OR EQUIPMENT GROUND BAR EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LP LR, LRB LRA LS, LSB LSIG LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
EARTH, ELECTRICAL OR EQUIPMENT GROUND BAR EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LR, LRB LRA LS, LSB LSIG LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
GROUND BAR EQUIPMENT GROUNDING CONDUCTOR ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LRA LS, LSB LSIG LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
ELECTRIC, ELECTRICAL ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LSIG LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
ELEVATOR EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LTG LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
EMERGENCY ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LTS LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LV LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
END OF LINE RESISTOR EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	LVRC MAN MANUF MATL MC MCA MCB MCC MCP MDP
EQUIPMENT ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MAN MANUF MC MCA MCB MCC MCP MDP
ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MANUF MATL MC MCA MCB MCC MCP MDP
ELECTRIC WATER COOLER ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MATL MC MCA MCB MCC MCP MDP
ELECTRICAL WATER HEATER EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MC MCA MCB MCC MCP MDP
EXHAUST FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MCA MCB MCC MCP MDP
FUSE FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MCB MCC MCP MDP
FIRE ALARM FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MCC MCP MDP
FIRE ALARM RELAY CONTACTS FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MCP MDP
FOOTCANDLE FAN COIL UNIT FROM FLOOR BELOW	MDP
FAN COIL UNIT FROM FLOOR BELOW	
FROM FLOOR BELOW	MECH
FULL LOAD AMPS	MI
	MLO
	MOCP
	MTR
	MV
	MW
	MZU
	N.C.
	N.O.
	N/A
	NEC
	NECA
	NEMA
	NESC
	NF
GAS WATER HEATER	NFPA
HIGH INTENSITY DISCHARGE	NFSS
HORN LIGHT	NIC
HAND OFF AUTO	NL
HORIZONTAL	NO
HORSE POWER	NPT
HEAT	NRTL
HIGH VOLTAGE	
HEATING, VENTILATION AND AIR CONDITIONING	NTS O.L.
HOT WATER PUMP	OCC
HERTZ, FREQUENCY	OCPD
INSULATED CAN	ORIENT
INSTITUTE OF ELECTRICAL AND	Р
	PB
	PH, Ø
	PLC
	PMCP
	PNL
	POE
	POS
	PP
	PRE
	PS
	PT
	PVC
	PWR
	FULL LOAD AMPS FLEXIBLE CONDUIT CONNECTION FLOOR FUSED FUSED SAFETY SWITCH FAN TERMINAL UNIT FURNITURE FULL VOLTAGE NON-REVERSING GROUND GALVANIZED GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION GALVANIZED RIGID METALLIC CONDUIT GAS UNIT HEATER GAS WARM AIR FURNACE GAS WATER HEATER HIGH INTENSITY DISCHARGE HORN LIGHT HAND OFF AUTO HORIZONTAL HORSE POWER HEAT HIGH VOLTAGE HEATING, VENTILATION AND AIR CONDITIONING HOT WATER PUMP HERTZ, FREQUENCY INSULATED CAN

ABBREVIATIONS - ELECTRICAL THIS IS A MASTER ABBREVIATIONS LIST. SOME ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT. KILOVOLT-AMPERES REACTIVE KILOWATT KILOWATT-HOUR LENGTH LIGHT EMITTING DIODE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT LIGHTING PANEL LEGALLY REQUIRED BRANCH LOCKED ROTOR AMPS LIFE SAFETY BRANCH LONG, SHORT, INSTANTANEOUS & GROUND LIGHTING LIGHTS LOW VOLTAGE LOW VOLTAGE RELAY CABINET MANUAL MANUFACTURER MATERIAL METAL CLAD CABLE MAXIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CURRENT PROTECTION MAIN DISTRIBUTION PANEL MECHANICAL MINERAL INSULATED MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION MOTOR MEDIUM VOLTAGE MEGAWATT MULTI-ZONE UNIT NORMALLY CLOSED NORMALLY OPEN NOT APPLICABLE NATIONAL ELECTRIC CODE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NATIONAL ELECTRIC SAFETY CODE NOT FUSED / NON-FUSED NATIONAL FIRE PROTECTION ASSOCIATION NON-FUSED SAFETY SWITCH NOT IN CONTRACT NIGHT LIGHTING NUMBER NATIONAL STANDARD PIPE TAPER NATIONALLY RECOGNIZED TESTING LABORATORY NOT TO SCALE OVERALL LENGTH OCCUPANCY (SENSOR) OVERCURRENT PROTECTIVE DEVICE ORIENTATION POLE PULL BOX PHASE PROGRAMMABLE LOGIC CONTROLLER PIPE MOUNTED CIRCULATING PUMP PANEL POWER OVER ETHERNET POSITION POWER PANEL POWER ROOF EXHAUSTER PRESSURE SWITCH POTENTIAL TRANSFORMER POLYVINYL CHLORIDE POWER

ABBREVIATIONS - ELECTRICAL

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

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

ELECTRICAL SYMBOLS FIRE ALARM

			<u> </u>		
	SYM	IBOL	DESCRIPTION		
	CEILING MOUNTED	WALL MOUTNTED			
TYPE AS SHOWN	$\langle S \rangle$	H(S)	SMOKE DETECTOR	SUBSCRIPTS	
	<u>s</u>		COMBINATION SMOKE/CARBON MONOXIDE DETECTORS	"ASD"= AIR SAMPLING DETECTOR "E" = ELEVATOR	
PE AS SHOWN			CARBON MONOXIDE DETECTOR		
	200		COMBINATION HEAT/CARBON MONOXIDE DETECTORS	"IP" = COMBINATION I/P "LBR"= LINEAR BEAM, RECEIVER	
AS SHOWN	200		HEAT DETECTOR	"LBT" = LINEAR BEAM, TRANSMITTER	
		0-	DUCT MOUNTED DETECTOR	"P" = PHOTOELECTRIC "R" = RATE OF RISE	
		Ρ	PULL STATION	"RC" = RATE COMPENSATION "RF" = COMBINATION R/F	
			HORN "XX dB" DECIBEL RATING		
			HORN "XX dB" DECIBEL RATING		
SHOWN	×	Ж	STROBE "XX cd" CANDELA RATING		
SPOT LIGHT			COMBINATION HORN & STROBE "XX cd" CANDELA RATING		
		ÞX	COMBINATION HORN & STROBE "XX cd" CANDELA RATING		
	×	Ŕ	MASS NOTIFICATION STROBE		
			COMBINATION MASS NOTIFICAT	ION SPEAKER & STROBE	
GN AND RONS AS SHOWN	X	Ř	REMOTE ALARM INDICATOR LIG	ЧТ	
	F	S	FLOW SWITCH		
	[ſS	TAMPER SWITCH		
<u>CRIPTS</u>	\langle	R	FIRE ALARM RELAY		
TCHED CIRCUIT	\langle	M	FIRE ALARM MONITOR MODULE		
AY AY MER	D	Η	MAGNETIC DOOR HOLD OPEN DEVICE	SUBSCRIPTS	
OPERATED VOLTAGE	£	÷	FIRE ALARM BELL	"C" = CEILING MOUNTED "F" = FLOOR MOUNTED	
UPANCY SENSOR, L TECHNOLOGY, GLE RELAY UPANCY SENSOR, L TECHNOLOGY, L RELAY CUPANCY SENSOR, L TECHNOLOGY,			FIRE ALARM PANEL SURFACE MOUNTED		
MER IT LIGHT AY OVERRIDE ER ITHERPROOF			FIRE ALARM PANEL RECESSED		

ELECTRICAL SYMBOLS BONDING & GROUNDING

-		
SYMBOL	DESC	CRIPTION
	GROUND ROD	SUBSCRIPTS
		"CR" = CHEMICAL ROD "TW" = TEST WELL
-AL-AL-AL-	ALUMINUM GROUND CONDUC #4/0AWG, UNLESS NOTED OT	
-CU-CU-CU-	COPPER GROUND CONDUCT #4/0AWG, UNLESS NOTED OT	
•	COMPRESSION/MECHANICAL	
	EXOTHERMIC CONNECTION	
<u>+-</u> +	GROUND BAR	

STANDARD WALL MOUNTING HEIGHTS

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

DRAWING LIST - ELECTRICAL

E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES		
E-002	ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES		
E-111	FIRST AND SECOND FLOOR LIGHTING PLAN		
E-112	FIRST AND SECOND FLOOR EQUIPMENT PLAN		
E-113	FIRST AND SECOND FLOOR POWER & LOW VOLTAGE PLAN		
E-401	RISER DIAGRAMS		
E-501	DETAILS		
E-601	SCHEDULES AND DIAGRAMS		
Grand total: 8			

NOTES:

UNLESS NOTED OTHERWISE. WALL MOUNTING HEIGHTS INDICATED ON 1. DRAWINGS SHALL SUPERSEDE STANDARD WALL MOUNTING HEIGHTS LISTED HERE. COORDINATE ALL DEVICE LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION. ADJUST TO MATCH MASONRY COURSES, IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.

2. CEILING HEIGHT PERMITTING, OTHERWISE MOUNT 12" BELOW CEILING TO TOP OF BOX.

3. MOUNTING HEIGHT AS MEASURED TO TOP OF ENCLOSURE OR CENTER OF OPERATING HANDLE AT HIGHEST POSITION, WHICHEVER IS HIGHER.

4. CEILING HEIGHT PERMITTING, CENTER EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING. FOR ALL OTHER AREAS AND CEILING HEIGHT PERMITTING, MOUNT 96" AFF TO TOP OF BOX. OTHERWISE, MOUNT 12" BELOW CEILING TO TOP OF BOX.

MOUNT 6" ABOVE COUNTERTOP OR BACKSPASH TO TOP OF BOX. COORDINATE 5 EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION.

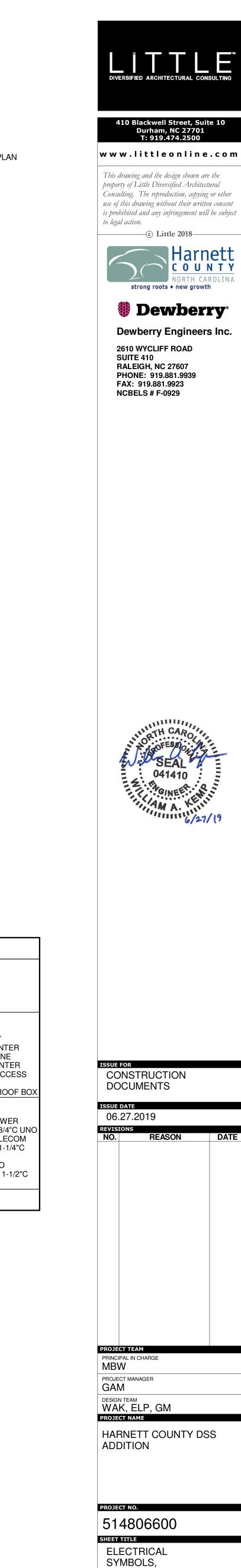
6. UTILITY AREAS INCLUDE, BUT ARE NOT STRICTLY LIMITED TO: ELECTRICAL, INTERSTITIAL, JANITORIAL AND MECHANICAL AREAS/ROOMS.

ELECTRICAL SYMBOLS SECURITY

			<u>SECURITY</u>	
	SYM	BOL	DESCR	IPTION
	CEILING MOUNTED	WALL MOUTNTED		
			SECURITY CAMERA	SUBSCRIPTS
D		AK	ALARM KEYPAD	"CM" = CORNER MOUNT "M" = MEGAPIXEL "PTZ"= POINT/TILT/ZOOM
		CR	CARD READER	"V" = V-CELL
		DA	DURESS ALARM	
		DS	DOOR SECURITY HARDWARE	HARDWARE LABEL
		DR	DOOR RELEASE	"DC" = DOOR CONTACT "EH" = ELECTRIC HINGE
		PA	PANIC ALARM BUTTON	"EL" = ELECTRIC LOCK "ES" = ELECTRIC STRIKE "ML" = MAGNETIC LOCK
	X	Ř	DURESS STROBE	"RX" = REQUEST TO EXIT
			DURESS HORN/STROBE	
	■ _c		MOTION DETECTOR	

ELECTRICAL SYMBOLS AV DATA & TELECOMMUNICATIONS

	4	<u>AV,</u>	DF	TA & TELECOMMU	
ę	SYM	IBOL	-	DESCRI	PTION
CEILING MTD	WALL MTD	POST MTD	FLOOR MTD		
\bigcirc	\bigtriangledown	V		DATA OUTLET, 1-1/4"C UNO	SUBSCRIPTS
				COMBINATION AV, DATA & POWER BOX 3/4"C FOR POWER UNO, 1-1/4"C FOR DATA UNO, 1-1/2"C FOR AV UNO	"4" = OUTLET QTY "AC" = ABOVE COUNTER "IP" = INMATE PHONE "UC" = UNDER COUNTER "WAP"= WIRELESS ACCESS POINT "WP" = WEATHERPROOF E
U	Ū			JUNCTION BOX	<u>SUBSCRIPTS</u>
	P	T		POWER/TELECOMMUNICATIONS POLE	P" = FURNITURE POWER CONNECTION, 3/4"C U "T" = FURNITURE TELECOM CONNECTION, 1-1/4"C
	Η	Η		POWER/TELECOMMUNICATIONS HANDHOLE	
		H		POWER/TELECOMMUNICATIONS	MANHOLE



ABBREVIATIONS &

E-001

NOTES

SHEET NUMBER

TER IE TER CESS
DOF BOX
VER '4"C UNO ECOM -1/4"C
-1/2"C

ELECTRICAL NOTES

<u>GENERAL</u>

- 1. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW ALL DETAILS REQUIRED FOR THE COMPLETE SYSTEM. THEY SHOULD HOWEVER BE FOLLOWED AS CLOSELY AS POSSIBLE IN THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT. ALL DIMENSIONS SHALL BE CHECKED AT THE BUILDING AND ALL STRUCTURAL AND FINISH CONDITIONS INVESTIGATED. THE CONTRACTOR SHALL ARRANGE HIS WORK TO MEET THESE CONDITIONS AND PROVIDE SUCH EQUIPMENT AND ACCESSORIES AS MAY BE REQUIRED.
- 2. PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT PLUMB AND PARALLEL WITH BUILDING LINES. STUDY ALL GENERAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS, SHOP DRAWINGS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT, ACCESSORIES, PIPING, FIXTURES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, PIPE STANDS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- COORDINATE THE ELECTRICAL WORK WITH ALL OTHER CONTRACTORS BEFORE BEGINNING WORK TO ENSURE THAT THE ELECTRICAL WORK DOES NOT INTERFERE WITH OTHER WORK. LINES WHICH REQUIRE SLOPE SHALL TAKE PRECEDENCE OVER ELECTRICAL WORK. COORDINATE THIS WITH THE PLUMBING, HVAC AND GENERAL CONTRACTORS.
- 4. NOTIFY THE ENGINEER IN WRITING IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCY OR POINTS OF CONFLICT IN THE DRAWINGS OR THE SPECIFICATIONS. THE ENGINEER WILL CLARIFY SUCH DISCREPANCY OR POINTS OF CONFLICT IN WRITING PRIOR TO THE PROGRESS OF THE WORK BEYOND THE POINT CONCERNED.
- 5. BEFORE INSTALLING EQUIPMENT, MAKE FIELD MEASUREMENTS TO ENSURE THAT ALL ITEMS OF EQUIPMENT FURNISHED WILL FIT INTO THE SPACE AS SHOWN ON THE DRAWINGS. WHERE EQUIPMENT WILL NOT FIT AS SHOWN ON THE DRAWINGS, PROVIDE A DRAWING TO THE ENGINEER FOR APPROVAL WITH A PROPOSED REVISED ARRANGEMENT BEFORE INSTALLING THE EQUIPMENT.
- PRIOR TO ROUGH-IN COORDINATE THE LOCATION AND MOUNTING HEIGHT 6 OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. NOTIFY THE ARCHITECT IN THE EVENT OF A CONFLICT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5'-0", SHALL BE MADE IN ANY DIRECTION WITH NO ADDITIONAL COST TO THE OWNER.
- 7. ALL WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, SWITCHES, TELECOM OUTLETS, SECURITY DEVICES, INTEGRATED COMMUNICATIONS DEVICES, AND FIRE ALARM DEVICES, SHALL BE RECESSED WITHIN WALLS, FURRING, OR CASEWORK, UNLESS NOTED OTHERWISE. USE OF EXPOSED SURFACE MOUNTED CONDUIT OR RACEWAY IS PROHIBITED EXCEPT IN ELECTRICAL AND MECHANICAL SPACES AND LOCATIONS NOTED ON THE DRAWINGS.
- LOCATION OF ALL FLOOR-MOUNTED DEVICES OUTLETS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- OUTLET BOXES INCLUDING BUT NOT LIMITED TO LIGHT SWITCHES. 9 RECEPTACLES, TELECOM OUTLETS, SECURITY DEVICES, INTEGRATED COMMUNICATIONS DEVICES, ETC. LOCATED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. WALL PENETRATIONS SHALL BE SEPARATED BY MOUNTING BOXES ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER INSIDE THE WALL.
- 10. FEEDER CONDUITS, BRANCH CIRCUITS AND CABLE TRAY ROUTING SHALL CONFORM TO THE DETAILS ON DRAWINGS AND SPECIFICATIONS. COORDINATE ROUTING WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.
- 11. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- 12. THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
- A. WHERE MULTIWIRE BRANCH CIRCUITS (MORE THAN ONE CIRCUIT PER CONDUIT) ARE INSTALLED, THE CONTRACTOR SHALL INSTALL A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT PER NEC ARTICLE 210.4.
- B. MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15.
- C. THE USE OF MULTIPOLE BREAKERS TO SERVE MULTIWIRE BRANCH CIRCUITS IS NOT ALLOWED.
- D. BRANCH CIRCUIT AND FEEDER CIRCUIT SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER. A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS
- UNLESS NOTED OTHERWISE. 13. COORDINATE LOCATION OF ALL RATED WALL ASSEMBLIES WITH THE
- ARCHITECTURAL DRAWINGS BEFORE AND DURING CONSTRUCTION.
- 14. DEVICES REQURIED TO ADA ACCESSIBLE SHALL BE INSTALLED PER ANSI A117.1.

ELECTRICAL NOTES (CONT.)

- <u>LIGHTING</u> 1. FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN.
- 2. LIGHT FIXTURE LOCATIONS IN MECHANICAL SPACES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. FIXTURES SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPING. CHAIN OR TRAPEZE-TYPE HANGERS SHALL BE PROVIDED WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO STRUCTURE OR CEILING.
- 3. LIGHT FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.

<u>POWER</u>

- 1. FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN . 2. LIGHT FIXTURE LOCATIONS IN MECHANICAL SPACES SHALL BE
- COORDINATED AND DETERMINED IN THE FIELD. FIXTURES SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPING. CHAIN OR TRAPEZE-TYPE HANGERS SHALL BE PROVIDED WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO STRUCTURE OR CEILING.
- 3. LIGHT FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.

<u>POWER</u>

- 1. FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND DEVICES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN .
- 2. LIGHT FIXTURE LOCATIONS IN MECHANICAL SPACES SHALL BE COORDINATED AND DETERMINED IN THE FIELD. FIXTURES SHALL NOT BE SUPPORTED FROM DUCTWORK OR PIPING. CHAIN OR TRAPEZE-TYPE HANGERS SHALL BE PROVIDED WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO STRUCTURE OR CEILING.
- 3. LIGHT FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.

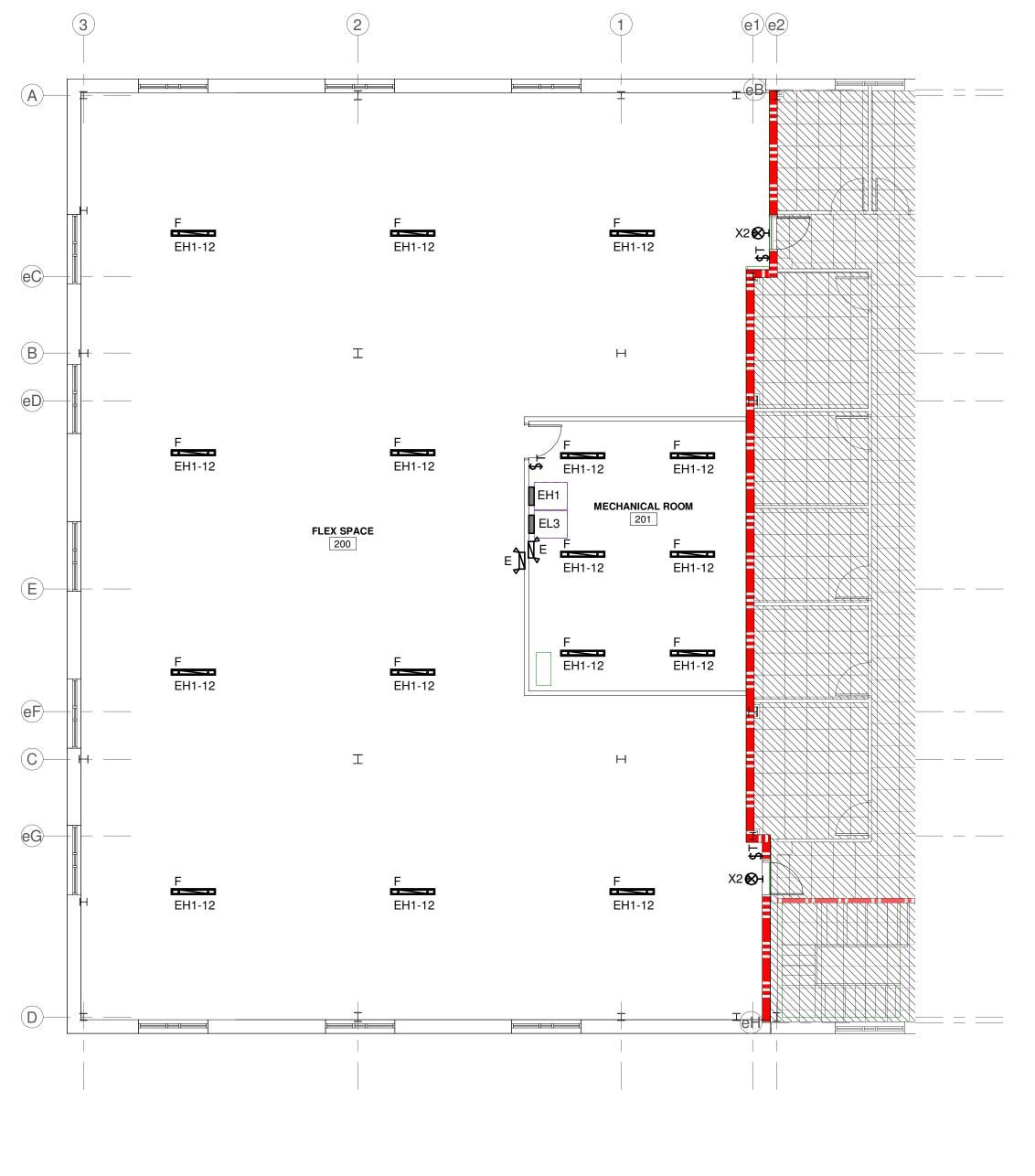
TELECOM

- 1. TELECOM/TELEVISION OUTLET SHALL BE PROVIDED WITH A 3/4" (1" TO FLOOR BOXES) CONDUIT WITH PULL WIRE TO ABOVE THE LAY IN CEILING IN THE CORRIDOR. TURN CONDUIT 12" INTO CEILING CAVITY AT A MINIMUM OF 6" ABOVE THE CEILING. THE END OF THE CONDUIT SHALL BE TERMINATED WITH AN INSULATED THROAT BUSHING.
- 2. ALL TELECOM CABLES SHALL NOT EXCEED 295 FEET IN LENGTH AND INSTALLED PER MANUFACTURER RECOMMENDATIONS.
- 3. TELECOM CABLES SHALL BE SUPPORTED WITH J-HOOKS AND D-RINGS. PROVIDE J-HOOKS AT INTERVALS NOT EXCEEDING 5 FEET. PROVIDE J-HOOKS WITHIN 6" FROM CABINETS, BOXES, FITTINGS, OUTLETS, RACKS, FRAMES AND TERMINALS. CABLES SHALL NOT BE SUPPORTED DIRECTLY FROM STRUCTURE. ALL WALL PENETRATIONS SHALL BE METAL SLEEVES AND SIZED AS INDICATED ON THE DRAWINGS. SEAL ALL FIRE RATED ASSEMBLY PENETRATIONS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ASSEMBLIES.
- 4. ALL FIBER OPTIC AND TELECOM CABLING SHALL BE TESTED AND TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- 5. FIBER OPTIC AND TELECOM CABLING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND EIA/TIA STANDARDS.
- 6. TELECOM CABLING SHALL BE ROUTED PERPENDICULAR OR PARALLEL WITH THE BUILDING STRUCTURE AND CONCEALED IN ALL FINISHED SPACES.
- 7. PROVIDE DOUBLE GANG BOX FOR ALL TELECOM OUTLETS WITH A SINGLE GANG MUD RING.

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





2 SECOND FLOOR LIGHTING PLAN Scale: 1/8" = 1'-0"

GENERAL NOTES

REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E-60 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1 WIRE SUCH THAT FIXTURE REMAINS UNSWITCHED.

O RATED WALLS & PARTITIONS

	FIRE BARRIER	FIR	Е
1-HOUR		1-HOUR	2
2-HOUR		2-HOUR	2
3-HOUR		3-HOUR	
	FIRE WALL		F
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			
0-HOUR	SMOKE PARTITION	1-HOUR	S

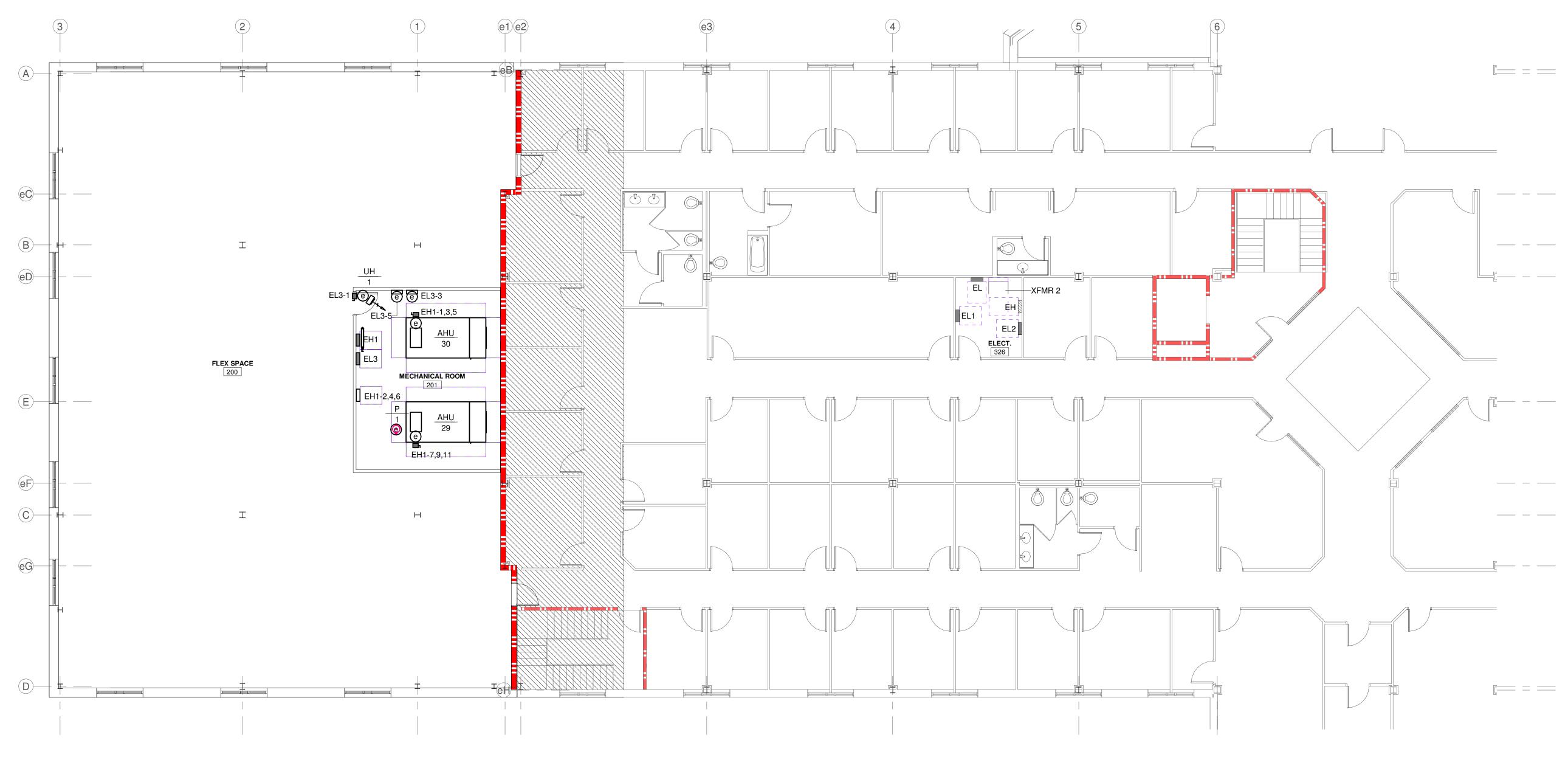
60	1

VERSIFIED ARCHITECTURAL 410 Blackwell Street, Suite 10 Durham, NC 27701 T: 919.474.2500 www.littleonline.com This drawing and the design shown are the property of Little Diversified Architectural Consulting. The reproduction, copying or other use of this drawing without their written consent is prohibited and any infringement will be subject to legal action. ______ C Little 2018______ Harnett : O U N T Y ORTH CAROLINA strong roots • new growth 👹 Dewberry Dewberry Engineers Inc. 2610 WYCLIFF ROAD SUITE 410 RALEIGH, NC 27607 PHONE: 919.881.9939 FAX: 919.881.9923 NCBELS # F-0929 41410 ISSUE FOR CONSTRUCTION DOCUMENTS ISSUE DATE 06.27.2019 PROJECT TEAM PRINCIPAL IN CHARGE MBW PROJECT MANAGER DESIGN TEAM WAK, ELP, GM HARNETT COUNTY DSS ADDITION PROJECT NO. 514806600 SHEET TITLE FIRST AND SECOND FLOOR LIGHTING PLAN SHEET NUMBER E-111

E & SMOKE BARRIER

FIRE PARTITION

SMOKE BARRIER

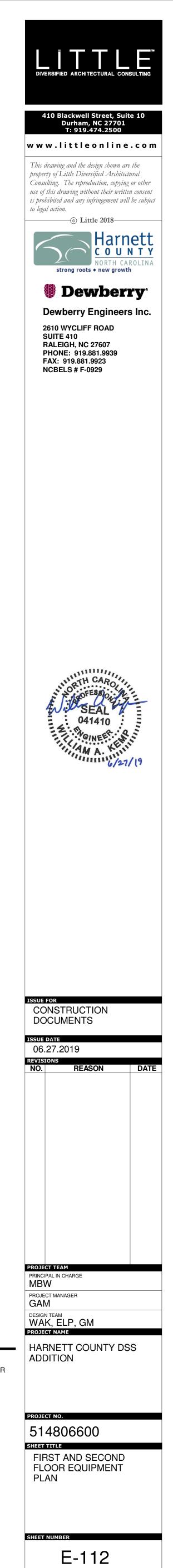




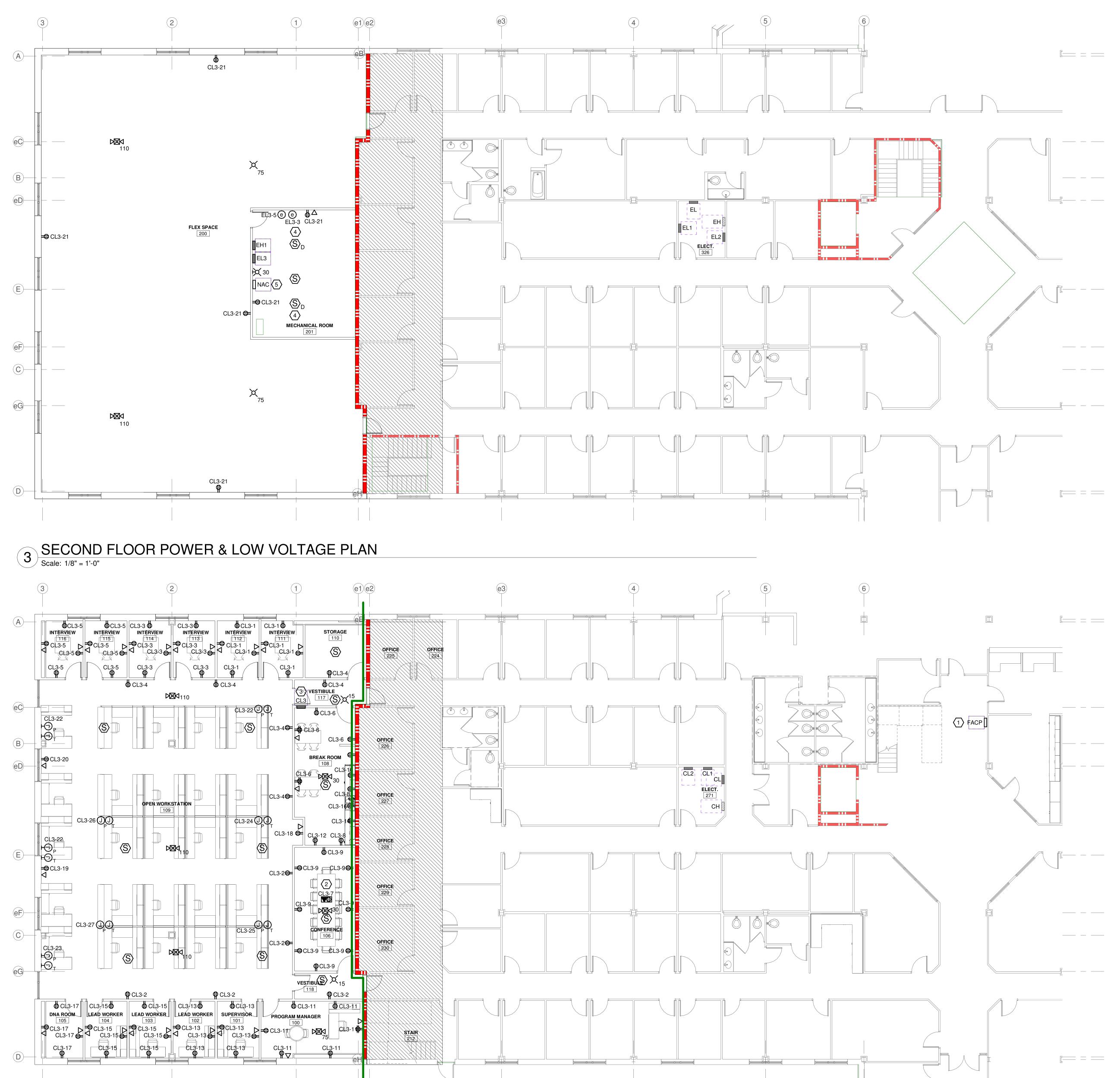


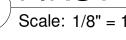
O RATED WALLS & PARTITIONS

	FIRE BARRIER	FIR	E & SMOKE BARRIE
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	
3-HOUR		3-HOUR	11///11///
	FIRE WALL		FIRE PARTITION
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			
	SMOKE PARTITION		SMOKE BARRIER
0-HOUR		1-HOUR	

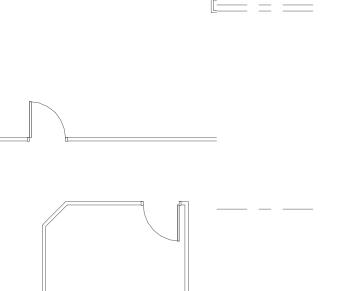


RE & SMOKE BARRIER 11///11///





1 FIRST FLOOR POWER & LOW VOLTAGE PLAN Scale: 1/8" = 1'-0"



GENERAL NOTES

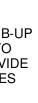
- 1. PROVIDE TELECOMMUNICATIONS DOUBLE-GANG OUTLET BOX WITH SINGLE-GANG MUD RING. STUB-UP A 1-1/4" CONDUIT WITH PULL STRING FROM BOX TO NEAREST ACCESSIBLE CEILING. OWNER TO PROVIDE ALL TELECOMMUNICATION CABLING, COVERPLATES AND JACKS.
- 2. REFER TO FIRE ALARM SYSTEM RISER DIAGRAM, SHEET E-402, FOR EXTENTION OF EXISTING SYSTEM INTO ADDITION.

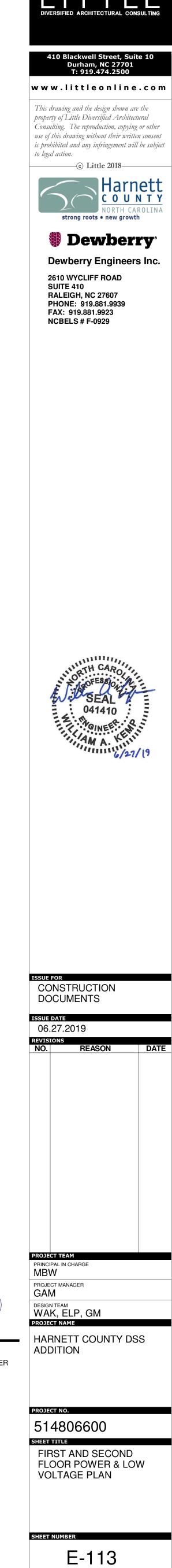
KEYED NOTES:

- 1 EXISTING FIRE ALARM CONTROL PANEL FACP-3. REFER TO FIRE ALARM RISER DIAGRAM, SHEET E-402.
- 2 FLOORBOX TYPE 'FB1'. REFER TO DETAIL, SHEET E-501. 3 COORDINATE WITH ARCHITECT AND CONTRACTOR TO PROVIDE WALL THICKNESS TO ACCOMMODATE RECESSED PANELBOARD.
- 4 PROVIDE INTEGRAL AHU SHUTDOWN RELAY. COORDINATE WITH MECHANICAL CONTROLS CONTRACTOR.
- 5 PROVIDE NEW FIRE ALARM NAC PANEL TO SERVE DSS ADDITION. NAC PANEL SERVED FROM PANEL 'EL3'. SEE FIRE ALARM RISER DIAGRAM, SHEET E-402, FOR CIRCUIT INFORMATION.

○ RATED WALLS & PARTITIONS

	FIRE BARRIER	FIF	RE & SMOKE BARRIE
1-HOUR		1-HOUR	
2-HOUR		2-HOUR	11///////
3-HOUR		3-HOUR	11/////////////////////////////////////
	FIRE WALL		FIRE PARTITION
2-HOUR		0.5-HOUR	
3-HOUR		1-HOUR	
4-HOUR			
	SMOKE PARTITION		SMOKE BARRIER
0-HOUR		1-HOUR	

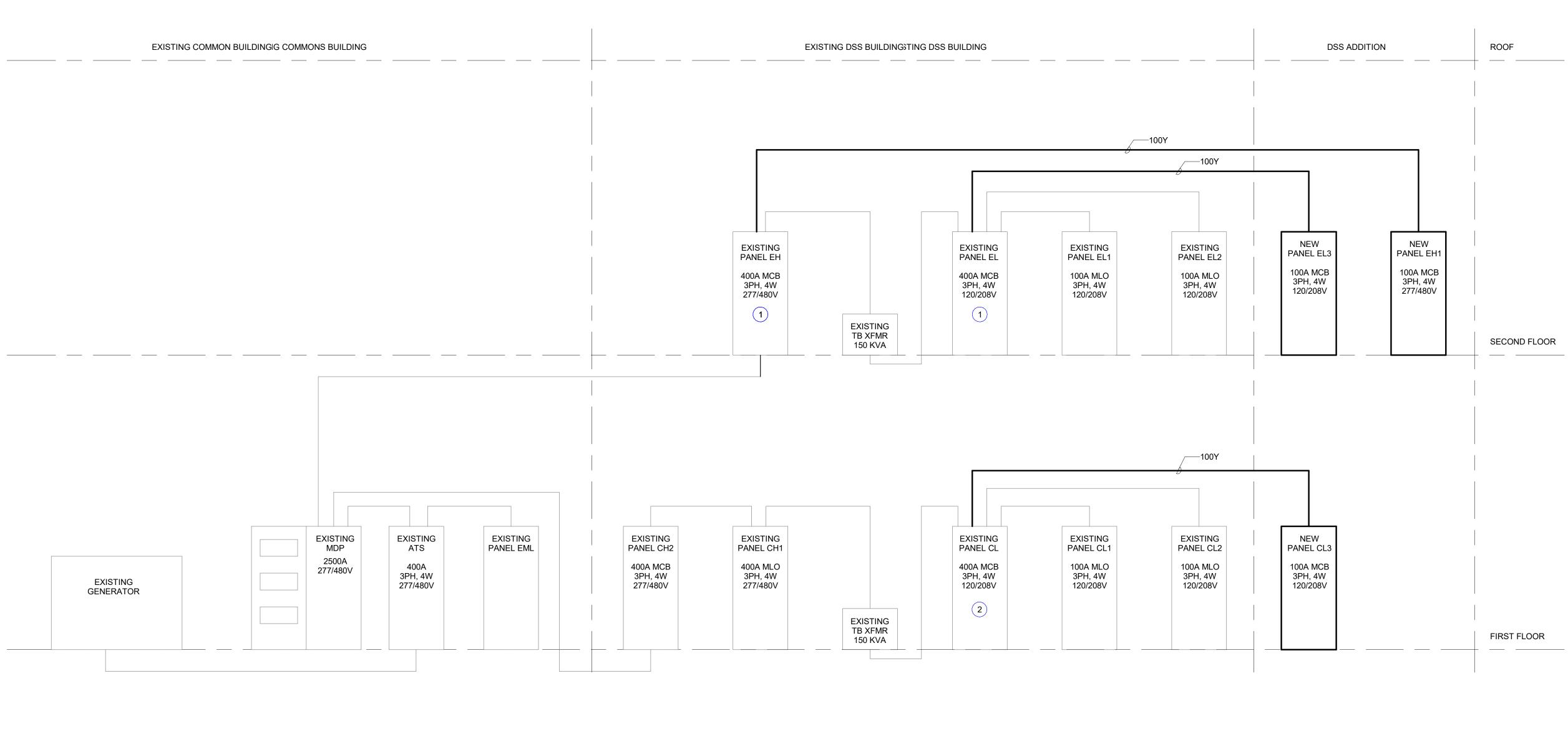




RE & SMOKE BARRIER

STANDARD FEEDER CHART THREE PHASE, NEUTRAL, & EQUIPMENT GROUND												
FEEDER TAG	THRE AMPACITY (A)1	E PHASE, NEUTRAL, & EQUIPMENT GROUND COPPER FEEDER SIZE2,3										
60Y	60	3#6, 1#6N, 1#10G IN 1"C										
90Y	85	3#4, 1#4N, 1#8G IN 1-1/4"C										
100Y	100	3#3, 1#3N, 1#8G IN 1-1/4"C										
110Y	115	3#2, 1#2N, 1#6G IN 1-1/4"C										
125Y	130	3#1, 1#1N, 1#6G IN 1-1/2"C										
150Y	150	3#1/0, 1#1/0N, 1#6G IN 1-1/2"C										
175Y	175	3#2/0, 1#2/0N, 1#6G IN 2"C										
200Y	200	3#3/0, 1#3/0N, 1#6G IN 2"C										
225Y	230	3#4/0, 1#4/0N, 1#4G IN 2-1/2"C										
250Y	255	3-250kcmil, 1-250kcmil N, 1#4G IN 2-1/2"C										
300Y	300	3-350kcmil, 1-350kcmil N, 1#4G IN 2-1/2"C										
350Y	380	3-500kcmil, 1-500kcmil N, 1#3G IN 4"C										
400Y	400	2 SETS OF 3#3/0, 1#3/0N, 1#3G IN 2"C EACH SET										
500Y	500	2 SETS OF 3-250kcmil, 1-250kcmil N, 1#2G IN 2-1/2"C EACH SET										
600Y	600	2 SETS OF 3-350kcmil, 1-350kcmil N, 1#1G IN 2-1/2"C EACH SET										
800Y	800	3 SETS OF 3-300kcmil, 1-300kcmil N, 1#1/0G IN 2-1/2"C EACH SET										
1000Y	1000	3 SETS OF 3-400kcmil, 1-400kcmil N, 1#2/0G IN 4"C EACH SET										
1200Y	1200	4 SETS OF 3-350kcmil, 1-350kcmil N, 1#3/0G IN 4"C EACH SET										
1200Y ALT 1600Y	1200	3 SETS OF 3-600kcmil, 1-600kcmil N, 1#3/0G IN 4"C EACH SET										
	1600	5 SETS OF 3-400kcmil, 1-400kcmil N, 1#4/0G IN 4"C EACH SET										
1600Y ALT 1900Y	1600 1900	4 SETS OF 3-600kcmil, 1-600kcmil N, 1#4/0G IN 4"C EACH SET 5 SETS OF 3-500kcmil, 1-500kcmil N, 1-250kcmil G IN 4"C EACH SET										
1900 Y 2000 Y	2000	6 SETS OF 3-400kcmil, 1-400kcmil N, 1-250kcmil G IN 4 C EACH SET										
2000 Y 2000Y ALT	2000	5 SETS OF 3-400kcmil, 1-400kcmil N, 1-250kcmil G IN 4 C EACH SET										
2000 Y AL I 2500Y	2000 2500	7 SETS OF 3-500kcmil, 1-500kcmil N, 1-250kcmil G IN 4 C EACH SET										
2500 F	2500	6 SETS OF 3-600kcmil, 1-500kcmil N, 1-350kcmil G IN 4 C EACH SET										
3000Y	3000	8 SETS OF 3-500kcmil, 1-500kcmil N, 1-400kcmil G IN 4°C EACH SET										
3000Y ALT	3000	7 SETS OF 3-750kcmil, 1-750kcmil N, 1-400kcmil G IN 4"C EACH SET										
4000Y	4000	11 SETS OF 3-500kcmil, 1-500kcmil N, 1-500kcmil G IN 4"C EACH SET										
4000Y ALT	4000	9 SETS OF 3-750kcmil, 1-750kcmil N, 1-400kcmil G IN 4"C EACH SET										
		PHASE, NEUTRAL, & GROUNDING ELECTRODE										
EEDER TAG 100YT	AMPACITY (A)1 100	COPPER FEEDER SIZE2,3 3#3, 1#3N, 1#8G IN 1-1/4"C										
150YT	150	3#1/0, 1#1/0N, 1#6G IN 1-1/2"C										
225YT	230	3#4/0, 1#4/0N, 1#2G IN 2-1/2"C										
350YT	380	3-500kcmil, 1-500kcmil N, 1#1/0G IN 4"C										
400YT	400	2 SETS OF 3#3/0, 1#3/0N, 1#2G IN 2"C EACH SET										
500YT	500	2 SETS OF 3-250kcmil, 1-250kcmil N, 1#1/0G IN 2-1/2"C EACH SET										
600YT	600	2 SETS OF 3-350kcmil, 1-350kcmil N, 1#2/0G IN 2-1/2"C EACH SET										
800YT	800	3 SETS OF 3-300kcmil, 1-300kcmil N, 1#2/0G IN 2-1/2"C EACH SET										
		PHASE & EQUIPMENT GROUND (NO NEUTRAL)										
	AMPACITY (A)1	COPPER FEEDER SIZE2,3										
50Δ	50	3#8, 1#10G IN 3/4"C										
60Δ 70.0	60 65	3#6, 1#10G IN 3/4"C										
70Δ	65 85	3#6, 1#8G IN 3/4"C										
80Δ 90Δ	85 85	3#4, 1#8G IN 1"C 3#4, 1#8G IN 1"C										
90Δ 100Δ	100	3#3, 1#8G IN 1"C										
100Δ 110Δ	115	3#2, 1#6G IN 1-1/4"C										
125Δ	130	3#1, 1#6G IN 1-1/4°C										
125Δ 150Δ	150	3#1/0, 1#6G IN 1-1/2"C										
130∆ 175∆	175	3#2/0, 1#6G IN 1-1/2"C										
200Δ	200	3#3/0, 1#6G IN 2"C										
200Δ 225Δ	200	3#4/0, 1#4G IN 2"C										
223Δ 250Δ	255	3-250kcmil, 1#4G IN 2"C										
230Δ 300Δ	300	3-350kcmil, 1#4G IN 2-1/2"C										
350∆	380	3-500kcmil, 1#3G IN 2-1/2"C										
400∆	400	2 SETS OF 3#3/0, 1#3G IN 2"C EACH SET										
FEDER TAG	THRE AMPACITY (A)1	E PHASE & GROUNDED NEUTRAL (SERVICE) COPPER FEEDER SIZE2,3										
400SE	400	2 SETS OF 3#3/0, 1#3/0GN IN 2"C EACH SET										
400SE 600SE	600	2 SETS OF 3-350kcmil, 1-350kcmil GN IN 2-1/2"C EACH SET										
800SE	800	3 SETS OF 3-300kcmil, 1-300kcmil GN IN 2-1/2"C EACH SET										
1000SE	1000	3 SETS OF 3-400kcmil, 1-400kcmil GN IN 4"C EACH SET										
1200SE	1200	4 SETS OF 3-350kcmil, 1-350kcmil GN IN 4"C EACH SET										
1200SE ALT	1200	3 SETS OF 3-600kcmil, 1-600kcmil GN IN 4"C EACH SET										
1600SE	1600	5 SETS OF 3-400kcmil, 1-400kcmil GN IN 4"C EACH SET										
1600SE ALT	1600	4 SETS OF 3-600kcmil, 1-600kcmil GN IN 4"C EACH SET										
1900SE	1900	5 SETS OF 3-500kcmil, 1-500kcmil GN IN 4"C EACH SET										
2000SE	2000	6 SETS OF 3-400kcmil, 1-400kcmil GN IN 4"C EACH SET										
2000SE ALT	2000	5 SETS OF 3-600kcmil, 1-600kcmil GN IN 4"C EACH SET										
2500SE	2500	7 SETS OF 3-500kcmil, 1-500kcmil GN IN 4"C EACH SET										
2500SE ALT	2500	6 SETS OF 3-600kcmil, 1-600kcmil GN IN 4"C EACH SET										
3000SE	3000	8 SETS OF 3-500kcmil, 1-500kcmil GN IN 4"C EACH SET										
3000SE ALT	3000	7 SETS OF 3-750kcmil, 1-750kcmil GN IN 4"C EACH SET										
4000SE	4000	11 SETS OF 3-500kcmil, 1-500kcmil GN IN 4"C EACH SET										
	4000	9 SETS OF 3-750kcmil, 1-750kcmil GN IN 4"C EACH SET										
4000SE AL I												
UNLES: TERMIN	S LIMITED BY EQ JALS OR SPLICE	ASED ON NEC TABLE 310.15(B)(16) AND THE 75°C RATING COLUMN QUIPMENT GROUNDING CONDUCTOR PER NEC TABLE 250.122. IF S RATED LESS THAN 75°C ARE ENCOUNTERED CONTRACTOR CONDUCTOR AND EQUIPMENT GROUND ACCORDINGLY.										
NOTES: 1. AMPAC UNLES: TERMIN SHALL 2. IF PHAS EQUIPN	S LIMITED BY EC IALS OR SPLICE RESIZE PHASE (SE CONDUCTOR //ENT GROUNDII	QUIPMENT GROUNDING CONDUCTOR PER NEC TABLE 250.122. IF S RATED LESS THAN 75°C ARE ENCOUNTERED CONTRACTOR										

EXISTI REMOV ADDED NEW T EQUIPI



1 ELECTRICAL POWER PARTIAL RISER DIAGRAM Scale: N.T.S.

KEYED NOTES:

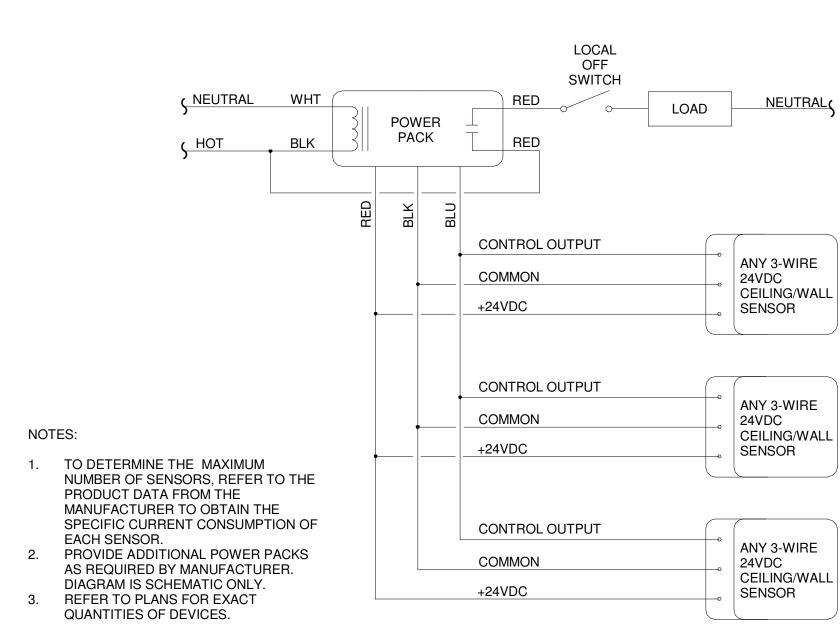
1. PROVIDE A 100A/3P FEEDER CIRCUIT BREAKER TO MATCH EXISTING AND A TYPED, UPDATED DIRECTORY.

2. EXISTING PANEL 'CL' IS A EATON/CUTLER HAMMER TYPE PRL1 PANELBOARD. PROVIDE NEW 3P/100A BREAKER TO SERVE NEW FEEDER INSIDE PANEL ON CIRCUITS 20,22,24.

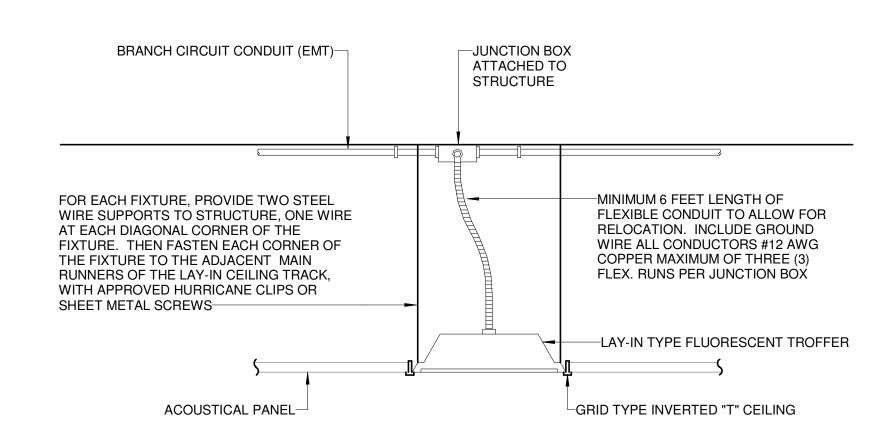
EXISTING 'M	DP' L(DAD S	UMM	ARY
TING MEASURED PEAK LOAD:	234.1	125%	292.6	KVA
OVED LOAD:			0	KVA
D LOAD:			51.2	KVA
TOTAL LOAD:			343.8	KVA
			413	AMPS @ 480Y/277V
PMENT RATING:			2500	AMPS



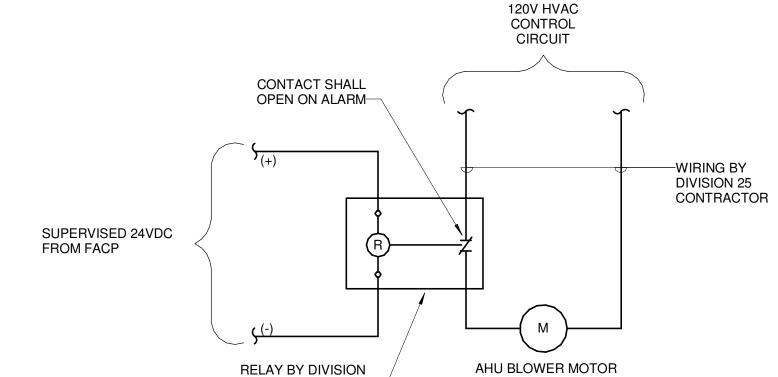




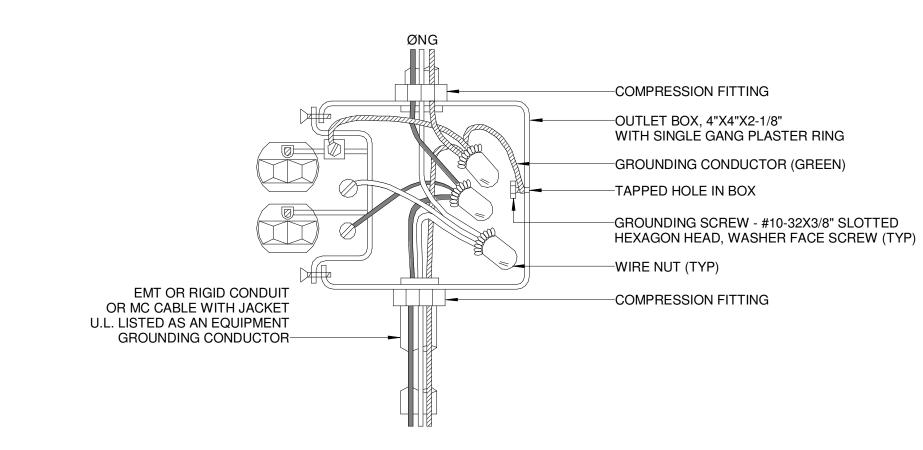
8 LIGHT FIXTURE MOUNTING Scale: N.T.S.



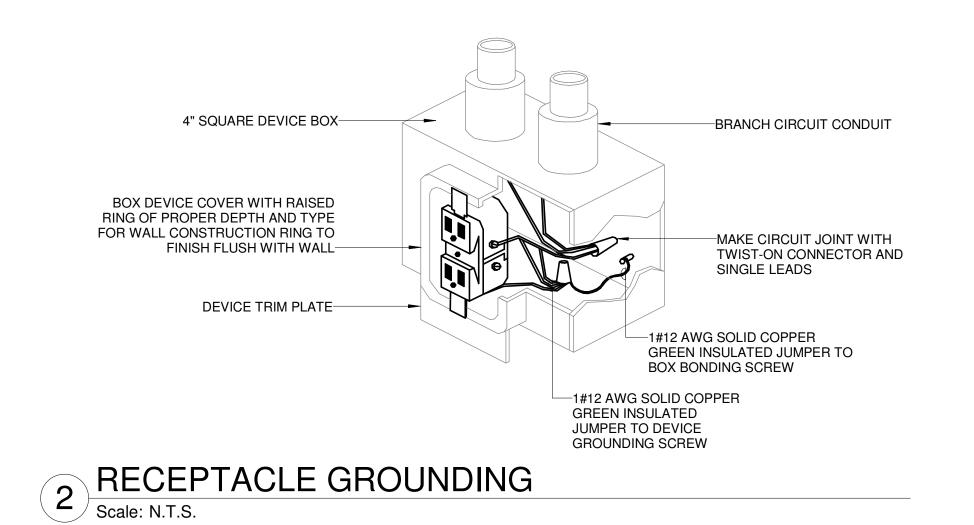
FROM FACP RELAY BY DIVISION 26 CONTRACTOR AHU BLOWER MOTOR 4 FIRE ALARM AIR HANDLER SHUTDOWN Scale: N.T.S.

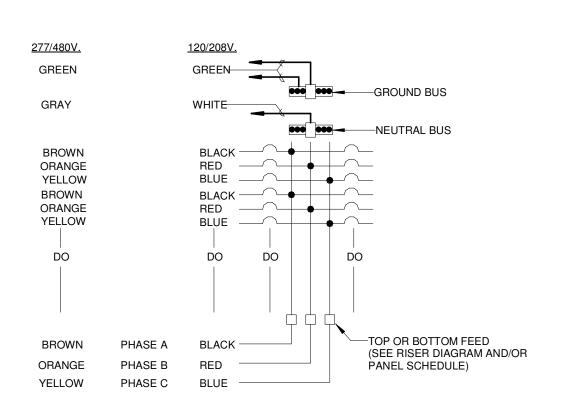


CONVENTIONAL RECEPTACLE Scale: N.T.S.

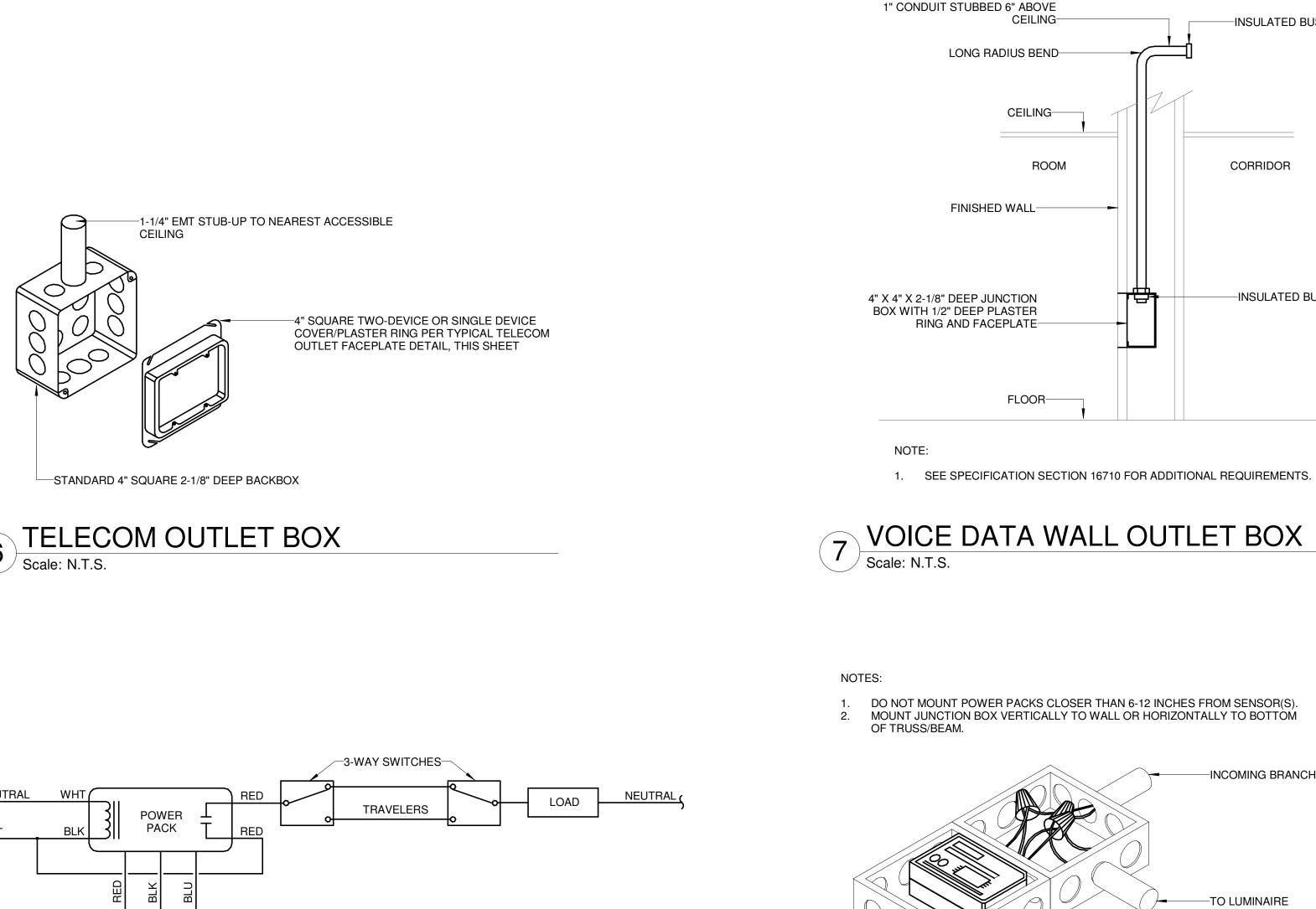


1. ALL CONDUCTORS ARE CONTINUOUS SO THAT REMOVAL OF DEVICE WILL NOT INTERFERE WITH CONDUCTOR CONTINUITY.

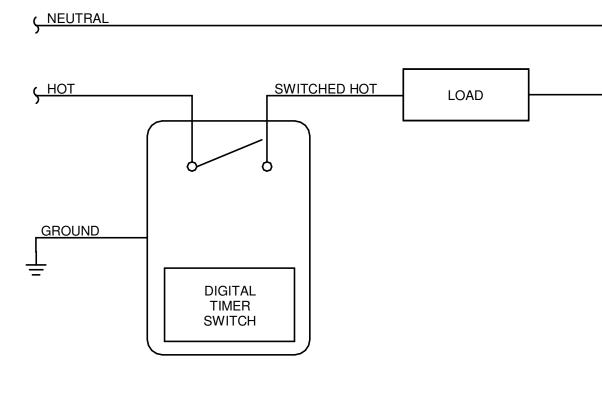




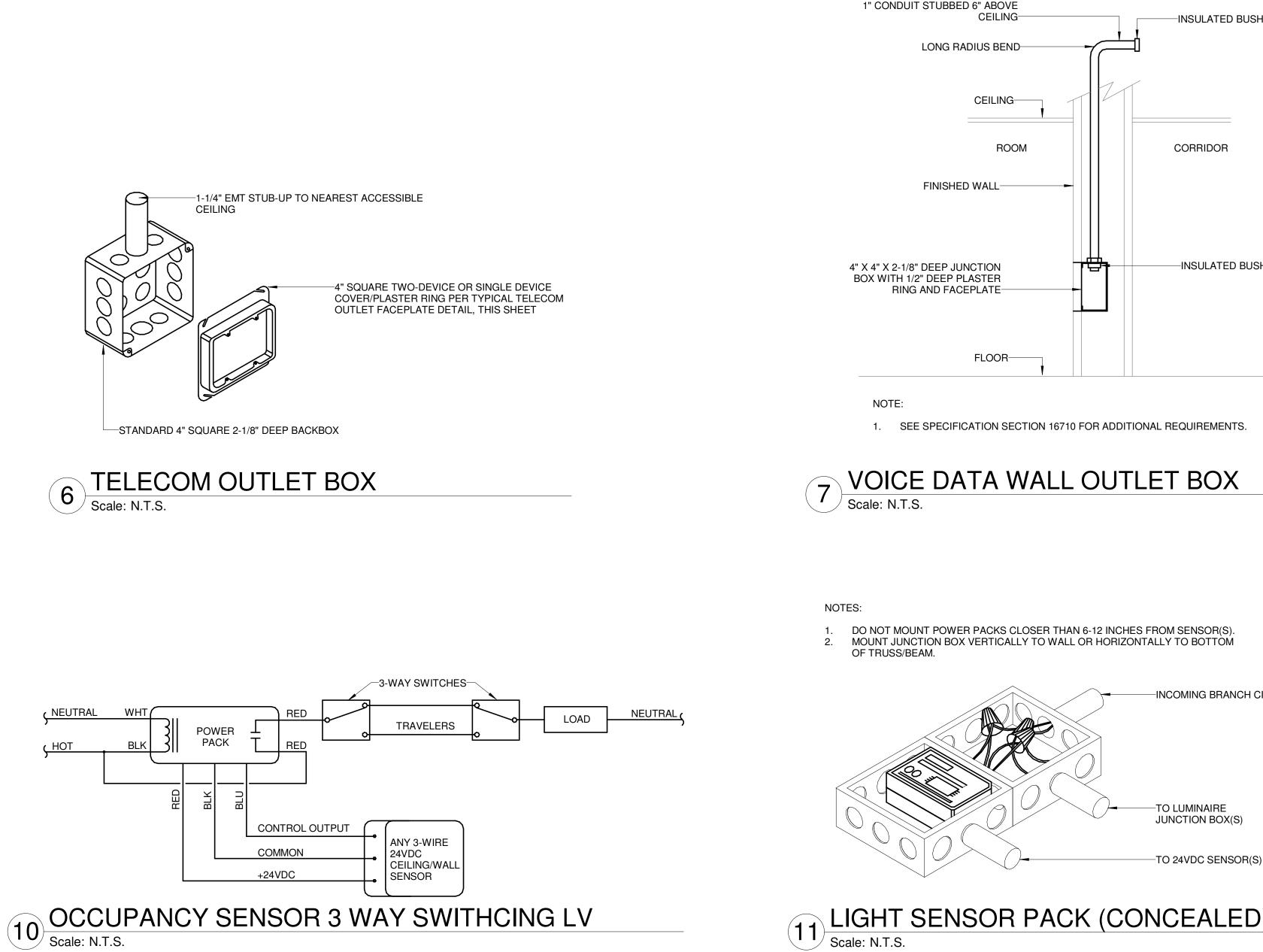
P. PANEL COLOR CODE DETAIL 5 TYP / Scale: N.T.S.

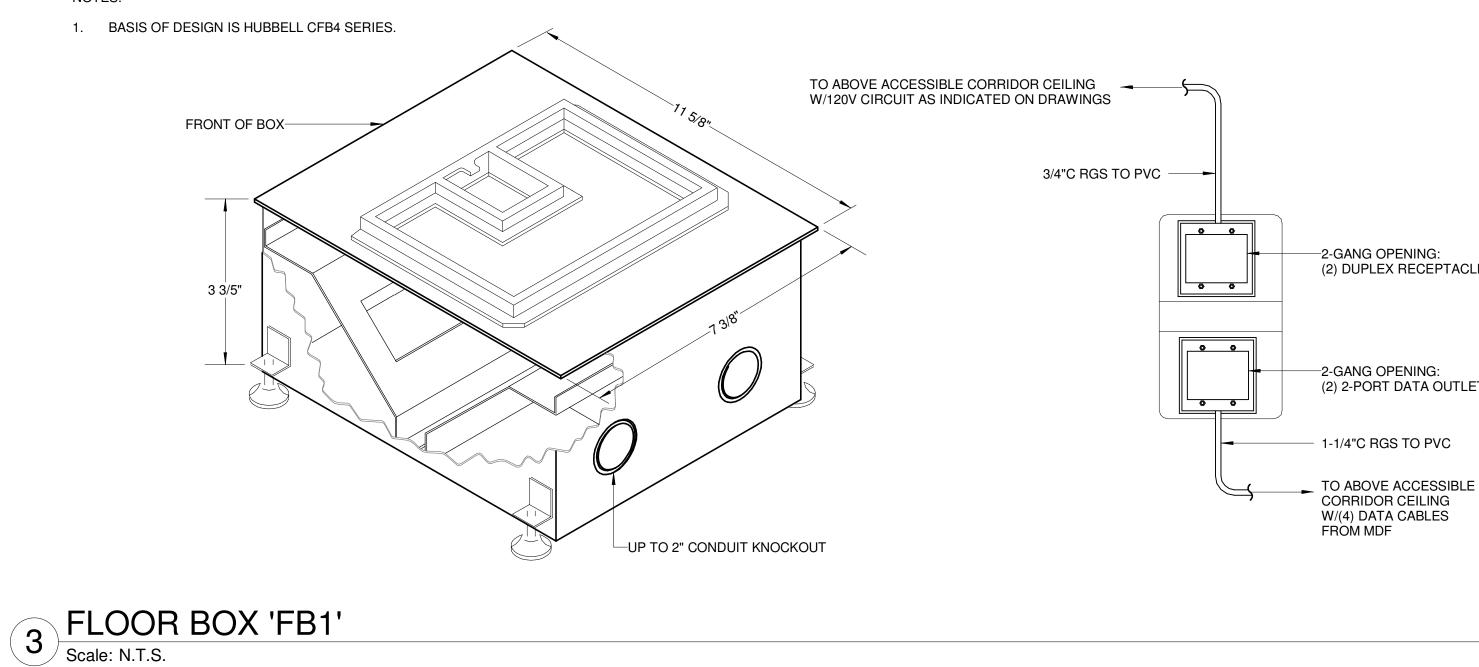


6

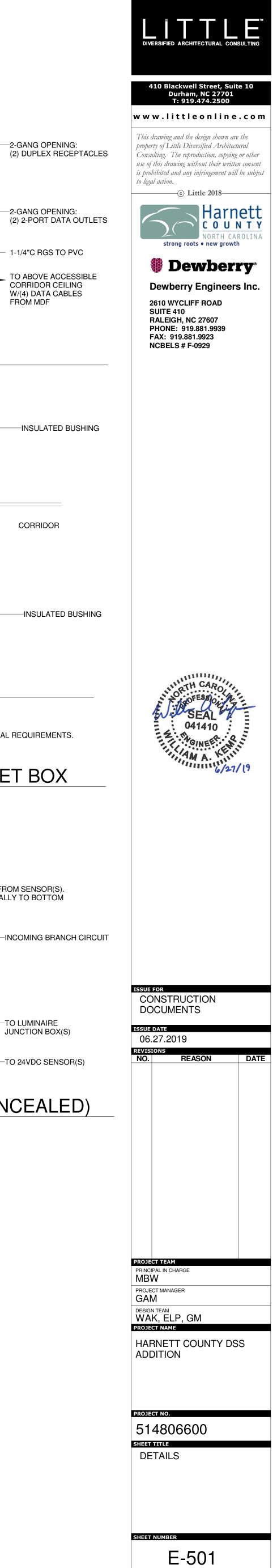












PANI	LOCATION: MECH/ SUPPLY FROM: EH MOUNTING: Surface ENCLOSURE: Type 1		0M 201		V	# OI	RATING: PHASES: WIRES: RATED:	3 4	Wye		MAIN CIRCUIT BREAKER: YES BREAKER RATING: 100 A BUS RATING: 100 A NEUTRAL RATING: 100% MINIMUM KAIC: 18								
СКТ	LOAD SERVED	СВ	Р	N		۹	E	3	C	;	N	Р	СВ	LOAD SERVED	СК				
1 3 5	AHU-30	20 A	3	-	2106	582	2106	582	2106	582	-	3	15 A	PUMP P-1	2 4 6				
7 9 11	AHU-29	20 A	3		2106	1680	2106	0	2106	0		1 1 1		LTS 100-106, 108, 110-116 LTS OPEN WORKSTATION 109 LTS MECH RM 201, SHELL SPACE	8 1(
13	TU-29-05,06,07,08	20 A	1		3660	0			2100	0		1	20 A	SPARE	14				
15 17	TU-29-01,02,03,04 SPARE	20 A 20 A	1				3660	0	0	0		1	20 A 20 A	SPARE SPARE	10				
19	SPARE	20 A	1		0	0			0	•		1		SPARE	2				
21	SPARE	20 A	1				0	0				1	20 A	SPARE	2				
23	SPARE	20 A	1						0	0		1	20 A	SPARE	2				
25	SPARE	20 A	1		0	0						1	20 A	SPARE	20				
27	SPARE	20 A	1				0	0				1	20 A	SPARE	2				
29	SPARE	20 A	1						0	0		1	20 A	SPARE	3				
31	SPARE	20 A	1		0	0						1	20 A	SPARE	32				
33	SPARE	20 A	1				0	0				1	20 A	SPARE	34				
35	SPACE								0	0				SPACE	30				
37	SPACE				0	0								SPACE	3				
39	SPACE						0	0						SPACE	4(
41	SPACE								0	0				SPACE	42				
	UIT BREAKER NOTES (N):			LOAD: AMPS:		5 VA A		5 VA S A	4795 17		_								

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTA	ALS
HVAC	12638 VA	12638 VA	TOTAL LOAD: 2	23384 V
Lighting	1680 VA	2100 VA	DEMAND FACTOR: 1	103.66%
Motor	9066 VA	9503 VA	DEMAND LOAD: 2	24241 V
			DEMAND AMPS: 2	29 A

	PANEL C	DESIGNATION:	EL3	3									PANEL D	ESIGNATION:		CL3					
	SUPPLY FROM: EL MOUNTING: Surface ENCLOSURE: Type 1	ING: Surface # OF WIRES: 4						MAI	BREAI NEUT	IT BREAKER: YES KER RATING: 100 A BUS RATING: 100 A RAL RATING: 100% NIMUM KAIC: 10			LOCATION: VESTIBL SUPPLY FROM: CL MOUNTING: Surface ENCLOSURE: Type 1	ULE 117	V	# OF PHA # OF W	TING: 120/208 ASES: 3 IRES: 4 ATED: NO	BUS RATI NEUTRAL RATI		UIT BREAKER: YES AKER RATING: 100 BUS RATING: 100 TRAL RATING: 100 /INIMUM KAIC: 10	
PANEL	NOTES:											PANEL N	DTES:								
СКТ	LOAD SERVED	CB P N	Α		В		С	N	Р СВ	LOAD SERVED	СКТ	СКТ	LOAD SERVED	CB P N	A	\	В	С	N !	P CE	B LOAD
1 1	JH-1	20 A 1	187 0						1 20 A	SPARE	2	1 INT	ERIVEW 111-112	20 A 1	1440	900				i 20	A SOUTH CORRI
3 I	HVAC CONTROL PANEL	20 A 1		500	0				1 20 A	SPARE	4	3 INT	ERVIEW 113-114	20 A 1		1	440 1080			1 20	A NORTH CORRI
5 I	HVAC CONTROL PANEL	20 A 1				500	0		1 20 A	SPARE	6	5 INT	ERIVEW 115-116	20 A 1				1440 1080		20	A BREAK ROOM
7 \$	SPARE	20 A 1	0 0						1 20 A	SPARE	8	7 CO	NFERENCE 106 FLOOR BOX	20 A 1	360	360				20	A BREAK ROOM
9 5	SPARE	20 A 1		0	0				1 20 A	SPARE	10	9 CO	NFERENCE 106 RECEPTACL	ES 20 A 1		1	440 800			20	A REFRIGERATC
11 9	SPARE	20 A 1				0	0		1 20 A	SPARE	12	11 PR0	OGRAM MAN. 100 RECEPTS	20 A 1				1260 1000		1 20	A COFFEE MAKE
13 \$	SPARE	20 A 1	0 0						1 20 A	SPARE	14	13 RO	OM 101-102 RECEPTACLES	20 A 1	1440	1500				20	A MICROWAVE
15 \$	SPARE	20 A 1		0	0				1 20 A	SPARE	16	15 RO	OM 103-104 RECEPTACLES	20 A 1		1	440 250			20	A DISHWASHER
17 \$	SPARE	20 A 1				0	0		1 20 A	SPARE	18	17 DN/	A ROOM 105 RECEPTACLES	20 A 1				720 1000		1 20	A OPEN OFFICE
19 8	SPARE	20 A 1	0 0						1 20 A	SPARE	20	19 OPI	EN OFFICE PRINTER	20 A 1	1000	1000				1 20	A OPEN OFFICE
21 \$	SPARE	20 A 1		0	0				1 20 A	SPARE	22	21 Rec	eptacle FLEX SPACE-1 200-1	20 A 1		1	080 2100			20	A OPEN WORKST
23	SPARE	20 A 1				0	0		1 20 A	SPARE	24	23 OPI	EN WORKSTATION 109	20 A 1				600 1200		20	A OPEN WORKS
25 \$	SPARE	20 A 1	0 0						1 20 A	SPARE	26	25 OPI	EN WORKSTATION 109	20 A 1	1200	1200				20	A OPEN WORKS
27	SPARE	20 A 1		0	0				1 20 A	SPARE	28	27 OPI	EN WORKSTATION 109	20 A 1		1	200 0		1	20	A SPARE
29	SPARE	20 A 1				0	0		1 20 A	SPARE	30	29						0	1	1 20	A SPARE
31 \$	SPARE	20 A 1	0 0						1 20 A	SPARE	32	31 SPA	ARE	20 A 1	0	0			1	20	A SPARE
33 3	SPARE	20 A 1		0	0				1 20 A	SPARE	34	33 SPA	ARE	20 A 1			0 0		1	1 20	A SPARE
35 \$	SPACE					0	0			SPACE	36	35 SPA	ARE	20 A 1				0 0			- SPACE
37 3	SPACE		0 0							SPACE	38	37 SPA	ACE		0	0					- SPACE
39 3	SPACE			0	0					SPACE	40	39 SPA	ACE				0 0				- SPACE
	SPACE					0	0			SPACE	42	41 SP/						0 0			- SPACE
		TOTAL LOAD:	187 VA	50	0 VA	500	O VA						-	TOTAL LOAD:	10400	0 VA	10830 VA	8300 VA			
		TOTAL AMPS:	2 A	Į	5 A		δA							TOTAL AMPS:			93 A	69 A	-		
CIRCU	IT BREAKER NOTES (N):					1						CIRCUIT	BREAKER NOTES (N):								
OAD	CLASSIFICATION	CON	NECTED LOAD	ES	TIMATED	DEMAND)			PANEL TOTALS		LOAD CL	ASSIFICATION	CON	INECTED	LOAD	ESTIMATE	D DEMAND			PANEL TOTALS
HVAC			1000 VA		1000	VA			Г	OTAL LOAD: 1187 VA		Receptacl	Э		29530 VA	۱	1976	5 VA			TOTAL LOAD: 295
Votor			187 VA		234 \	/A			DEMA	ND FACTOR: 103.94%										DEM	IAND FACTOR: 66.9
									DE	MAND LOAD: 1234 VA										D'	EMAND LOAD: 197
									DE	MAND AMPS: 3 A											EMAND AMPS: 55 A

PANEL D	ESIGNATI	ON:		EL	.3	PANEL DESIGNATION: EL3 LOCATION: MECHANICAL BOOM 201 VOLTAGE BATING: 120/208 Wye MAIN CIRCUIT BREAKER: YES														ATION:		CL3							
SUPPLY FROM: EL MOUNTING: Surface ENCLOSURE: Type 1	OUNTING: Surface# OF WIRES: 4					Wye		MAIN CIRCUIT BREAKER: YES BREAKER RATING: 100 A BUS RATING: 100 A NEUTRAL RATING: 100% MINIMUM KAIC: 10								LOCATION: VESTIBUL SUPPLY FROM: CL MOUNTING: Surface ENCLOSURE: Type 1		VOLTAGE RATING: 120/208 Wye # OF PHASES: 3 # OF WIRES: 4 SE RATED: NO								T BREAKER: YES KER RATING: 100 A BUS RATING: 100 A RAL RATING: 100% NIMUM KAIC: 10			
PANEL NOTES:																PANI	EL NOTE	S:											
CKT LOAD SERVED	СВ Р	N		Α		В	}		0	N	Р	СВ		LOAD SERVED	СКТ	СКТ		LOAD SERVED	СВ	P N	N A		A B		С		N P	СВ	LOAD SER
1 UH-1	20 A 1		187	' (D						1	20 A	SPARE		2	1		/EW 111-112	20 A	1	1440	900					1	20 A	SOUTH CORRIDOR
3 HVAC CONTROL PANEL	20 A 1				-	500	0				1		SPARE		4			IEW 113-114	20 A				1440	1080			1		NORTH CORRIDOR
5 HVAC CONTROL PANEL	20 A 1						-	500	0		1		SPARE		6			/EW 115-116	20 A						1440	1080	1		BREAK ROOM 108 RE
7 SPARE	20 A 1		0	(o C						1		SPARE		8			RENCE 106 FLOOR BOX	20 A	1	360	360			_		1		BREAK ROOM 108 RE
9 SPARE	20 A 1					0	0				1		SPARE		10			RENCE 106 RECEPTACLES		1			1440	800			1		REFRIGERATOR
11 SPARE	20 A 1					-	-	0	0		1		SPARE		12			AM MAN. 100 RECEPTS	20 A	1			-		1260	1000	1		COFFEE MAKER
13 SPARE	20 A 1		0	(D C						1		SPARE		14			101-102 RECEPTACLES	20 A		1440	1500					1		MICROWAVE
15 SPARE	20 A 1					0	0				1	20 A	SPARE		16	15	ROOM 1	103-104 RECEPTACLES	20 A				1440	250			1	20 A	DISHWASHER
17 SPARE	20 A 1							0	0		1	20 A	SPARE		18	17	DNA RC	OOM 105 RECEPTACLES	20 A	1					720	1000	1	20 A	OPEN OFFICE PRINT
19 SPARE	20 A 1		0	(C						1		SPARE		20	19	OPEN C	OFFICE PRINTER	20 A		1000	1000					1	20 A	OPEN OFFICE PRINT
21 SPARE	20 A 1					0	0				1	20 A	SPARE		22	21	Recepta	cle FLEX SPACE-1 200-1	20 A	1			1080	2100			1	20 A	OPEN WORKSTATIO
23 SPARE	20 A 1							0	0		1	20 A	SPARE		24	23	OPEN W	VORKSTATION 109	20 A	1					600	1200	1	20 A	OPEN WORKSTATIO
25 SPARE	20 A 1		0	(C						1	20 A	SPARE		26	25	OPEN W	VORKSTATION 109	20 A	1	1200	1200					1	20 A	OPEN WORKSTATIO
27 SPARE	20 A 1					0	0				1	20 A	SPARE		28	27	OPEN W	VORKSTATION 109	20 A	1			1200	0			1	20 A	SPARE
29 SPARE	20 A 1							0	0		1	20 A	SPARE		30	29										0	1	20 A	SPARE
31 SPARE	20 A 1		0	(C						1	20 A	SPARE		32	31	SPARE		20 A	1	0	0					1	20 A	SPARE
33 SPARE	20 A 1					0	0				1	20 A	SPARE		34	33	SPARE		20 A	1			0	0			1	20 A	SPARE
35 SPACE								0	0				SPACE		36	35	SPARE		20 A	1					0	0			SPACE
37 SPACE			0	(C								SPACE		38	37	SPACE				0	0							SPACE
39 SPACE						0	0						SPACE		40	39	SPACE						0	0					SPACE
41 SPACE								0	0				SPACE		42		SPACE								0	0			SPACE
	ΤΟΤΑ	L LOA	D:	187 VA		500	VA	500	VA										1	OTAL LOAD:	1040	o VA	1083	30 VA	8300) VA			
	ΤΟΤΑ	L AMP	S:	2 A		57	4	5	A										ſ	OTAL AMPS:	89	A	93	3 A	69	Α			
CIRCUIT BREAKER NOTES (N):																CIRC	UIT BRE	AKER NOTES (N):											
LOAD CLASSIFICATION		C	ONNECT	ED LOA	D	EST	IMATED	DEMAND					PANEL	TOTALS		LOA	D CLASSI	IFICATION		CON	NECTED	LOAD	ES	TIMATED	DEMAND				PANEL TOTALS
HVAC			1000				1000 \	/A						AD: 1187 VA		Rece	ptacle				29530 V			19765	i VA				OTAL LOAD: 29530 VA
Motor			187	VA			234 V	Ά				DEMAN	D FACT	OR: 103.94%														DEMA	ND FACTOR: 66.93%
												DEM		AD: 1234 VA														DEN	MAND LOAD: 19765 VA MAND AMPS: 55 A

			LIG		SCHEDULE								
ТҮРЕ	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	SIZE	LIGHT SOURCE				DRIVER	ļ		
						TYPE	LUMEN OUTPUT	COLO R	CRI (min)	ТҮРЕ	NOTES	VOLT	SYSTEM WATTS
Α	2x2 RECESSED VOLUMETRIC TROFFER	LITHONIA	2BLT2-48L-ADSM-EZ1-LP840	CEILING	23-3/4"W x 23-3/4"L x 2-3/8"H	LED	4877	4000	80	0-10V DIMMING		277	44 W
В	2X4 RECESSED ACRYLIC LENS TROFFER	LITHONIA	2TL4-60L-FW-A12-EZ1-LP840	CEILING	24"W x 48"L x 3-3/4"D	LED	5588	4000	80	0-10V DIMMING		277	47 W
С	2X4 RECESSED VOLUMETRIC TROFFER	LITHONIA	2BLT4-60L-ADSM-EZ1-LP840	CEILING	23-3/4"W x 47-3/4"L x 2-3/8"H	LED	6112	4000	80	0-10V DIMMING		277	47 W
CE	2X4 RECESSED VOLUMETRIC TROFFER W/ INTEGRAL BATTERY	LITHONIA	2BLT4-60L-ADSM-EZ1-LP840	CEILING	23-3/4"W x 47-3/4"L x 2-3/8"H	LED	6112	4000	80	0-10V DIMMING		277	47 W
D	16' LINEAR DIRECT / INDIRECT PENDANT	NEO-RAY	S122-DIP-ULO-1-40-SC48-FTG-0192-1-D-2 -DD-1-W	PENDANT	2"W x 16'L x 5.13"H	LED	16304	4000	80	0-10V DIMMING		277	160 W
DE	16' LINEAR DIRECT / INDIRECT PENDANT W/ INTEGRAL BATTERY	NEO-RAY	S122-DIP-ULO-1-40-SC48-FTG-0192-1-D-2 -DD-1-W	PENDANT	2"W x 16'L x 5.13"H	LED	16304	4000	80	0-10V DIMMING		277	160 W
E	EMERGENCY BATTERY UNIT	LITHONIA	ELM6L-UVOLT-LTP	WALL		LED	1100	0	0			277	11 W
F	4' LINEAR STRIPLIGHT	LITHONIA	ZL1D-L48-SMR-5000LM-FST-40K-80CRI- WH-HC36	PENDANT	2-1/4"W x 48"L x 3"H	LED	5541	4000	80	0-10V DIMMING		277	48 W
Х	EXIT SIGN WITH ALUMINUM HOUSING	LITHONIA	LE-S-1/2-R-ELN-SD	CEILING / WALL	12-15/16"W x 9-7/16"H x 1-3/4"D	LED		0	0			277	
X2	EXIT SIGN WITH LED LAMP HEAD	LITHONIA	LHQM-LED-R-SD	CEILING / WALL	19-1/4"W x 8"H x 2-1/4"D	LED		0	0			277	

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	ISSUE FOR CONSTRUCTION DOCUMENTS
	ISSUE DATE 06.27.2019 REVISIONS NO. REASON DATE
	PROJECT TEAM PRINCIPAL IN CHARGE
	MBW PROJECT MANAGER GAM DESIGN TEAM WAK, ELP, GM
	HARNETT COUNTY DSS ADDITION
	project no. 514806600
	SHEET TITLE SCHEDULES AND DIAGRAMS
	SHEET NUMBER E-601