

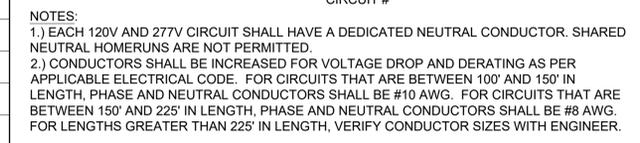
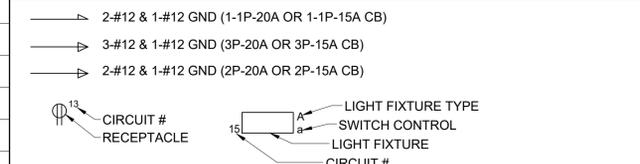
SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
—	-	CONDUIT AND WIRING	[FACP]	FACP	FIRE ALARM CONTROL PANEL
----	-	CONDUIT & WIRING TO BE REMOVED UON	[BPS]	BPS	BOOSTER POWER SUPPLY
---UG---	-	BURIED CONDUIT	[R]	-	FIRE ALARM RELAY
⚡	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P	~W~	EOL	END OF LINE RESISTOR
←	-	MULTI-POLE HOMERUN	[CFA]	-	CALL FOR AID PULL STATION
□	-	ELECTRICAL EQUIPMENT AS INDICATED	[CFA]	-	CALL FOR AID A/V DEVICE
□	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON	[HD]	-	ELECTRIC HAND DRYER
[M]	-	ELECTRIC METER	[EPO]	EPO	EMERGENCY POWER OFF SWITCH
[J]	-	JUNCTION BOX	[RASP]	RASP	RESCUE ASSIST. SYSTEM MASTER STATION
⊠	-	FUSED DISCONNECT SWITCH	[CB]	CB	CIRCUIT BREAKER
□	-	UNFUSED DISCONNECT SWITCH	⊠	-	ENCLOSED CIRCUIT BREAKER
⊠	-	COMBINATION MOTOR STARTER/FUSED DISC.	⊠	-	FUSED SWITCH
⊠	-	MOTOR STARTER	⊠	GND	GROUND AS PER LOCAL CODE
⊠	-	MOTOR	⊠	-	GROUND BAR
⊠	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW	⊠	-	GROUND ROD
S _x	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	⊠	XFMR	TRANSFORMER
S _x ³	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	⊠	CT	CURRENT TRANSFORMER
S _x ⁴	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	⊠	-	UTILITY POLE
S _x ^{DIM}	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	⊠	WM	WATER MAIN
S _M	-	MOTOR RATED TOGGLE SWITCH	[B]	-	BOILER BREAK GLASS STATION
S _K	-	KEY OPERATED SINGLE POLE SWITCH	⊠	NC	NORMALLY CLOSED CONTACTS
V	-	WALL MOUNTED OCCUPANCY SENSOR (V - INDICATES VACANCY SENSOR)	⊠	NO	NORMALLY OPEN CONTACTS
V	-	CEILING MOUNTED OCCUPANCY SENSOR (V - INDICATES VACANCY SENSOR)	[M]	MD	MOTORIZED DAMPER
⊠	-	DUPLEX RECEPTACLE	---	SD OR CFSD	SMOKE DAMPER
⊠	-	DOUBLE DUPLEX RECEPTACLE	A	A	AMPERE(S)
⊠	-	SPECIAL RECEPTACLE	AF	AF	ABOVE FINISHED FLOOR
▽	-	TELEPHONE OUTLET	AF	AF	AMPERAGE OF FUSE
▼ ^x	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)	AGL	AGL	ABOVE GRADE LEVEL
▼	-	COMBINATION TELEPHONE/DATA OUTLET	AHU	AHU	AIR HANDLING UNIT
▼ ^{WAP}	-	WIRELESS ACCESS POINT	AL	AL	ALUMINIUM
▼ ^C	-	CAMERA	ARC	ARC	ARC FAULT INTERRUPTER
[CR]	-	CARD READER	AS	AS	AMPERAGE OF SWITCH
[G]	-	FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE	ATS	ATS	AUTOMATIC TRANSFER SWITCH
[G]	-	FLOOR MOUNTED DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)	AWG	AWG	AMERICAN WIRE GAUGE
[FKV]	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE) V - DENOTES VOICE COMMUNICATION DEVICE	C	C	CONDUIT
[FKV ¹⁰]	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE) V - DENOTES VOICE COMMUNICATION DEVICE	CD	CD	CANDELA
[FKV ¹¹⁰]	-	FIRE ALARM STROBE 15/75 CD	CKT	CKT	CIRCUIT
[FKV ¹¹⁰]	-	FIRE ALARM STROBE 110 CD	CLG	CLG	CEILING
[S ^{EL, SH, SC}]	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING	CT	CT	COUNTER-TOP
[S ^{FC}]	-	DUCT MOUNTED SMOKE DETECTOR	CU	CU	COPPER
[H]	-	HEAT DETECTOR	DEM.	DEM.	DEMOLISH AND REMOVE
[TS]	-	FIRE ALARM TAMPER SWITCH	DISC	DISC	DISCONNECT
[WF]	-	FIRE ALARM WATER FLOW SWITCH	EMT	EMT	ELECTRICAL METALLIC TUBING
[ANN]	-	FIRE ALARM ANNUNCIATOR PANEL	EM	EM	EMERGENCY
[CM]	CM	FIRE ALARM CONTROL MODULE	EX.	EX.	EXISTING TO REMAIN
[MM]	MM	FIRE ALARM MONITORING MODULE	F	F	FLOOR
			GF	GF	GROUND FAULT INTERRUPTER
			HP	HP	HORSEPOWER
			KVA	KVA	KILO-VOLT-AMPERE
			KW	KW	KILO-WATT
			MAX	MAX	MAXIMUM
			MCB	MCB	MAIN CIRCUIT BREAKER
			MIN	MIN	MINIMUM
			MLO	MLO	MAIN LUG ONLY
			NIC	NIC	NOT IN CONTRACT
			NTS	NTS	NOT TO SCALE
			P	P	POLE
			PBO	PBO	PROVIDED BY OTHERS

SYMBOL	ABBREVIATION	DESCRIPTION
	PNL	PANEL
	SCH	SCHEDULE
	SPD	SURGE PROTECTION DEVICE
	SW	SWITCH(ES)
	TELCO	TELEPHONE COMPANY
	TYP	TYPICAL
	UG	UNDERGROUND
	UON	UNLESS OTHERWISE NOTED
	V	VOLT(S)
	WP	WEATHERPROOF

NOTES:
 1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
 2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

TYPICAL BRANCH CIRCUIT WIRING LEGEND



TRENCHING NOTES

- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.
- ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.
- ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962 (NY STATE).

FIRE RADIO DRAWINGS

- FIRE RADIO DRAWINGS SHALL BE PRICED AS AN ADD/ALTERNATE.

GENERAL NOTES

- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
- ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.
- ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
- ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
- CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
- CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING, & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
- FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE FROM THE OUTLET TO THE DATA ROOM FOR INSTALLATION OF CABLE BY ELECTRICAL CONTRACTOR.
- COMMUNICATION WIRING BY ELECTRICAL CONTRACTOR. COORDINATE COMMUNICATION JACKS WITH REPRESENTATIVE, TYPICAL.

GENERAL NOTES

- WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
- CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
- UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
- DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
- INCLUDE IN BASE BID (4) 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:
 FIRST FLOOR - PP11-29, 31, 33 AND 35
 SECOND FLOOR - PP21-23, 25, 27 AND 29
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL POWER AND DATA DRAWINGS A211, A401, A402, A403, A404 FOR LOCATIONS, MOUNTING HEIGHTS AND WIRELESS ACCESS POINTS LOCATIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL CEILING DRAWINGS A601, FOR LIGHTING FIXTURE LOCATIONS AND TYPES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOXES AND BLANK COVERS FOR ALL WIRING DEVICES.

PV SYSTEM

- ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 2" EMPTY CONDUIT WITH DRAGLINES BETWEEN THE ROOF AND THE MAIN ELECTRICAL ROOM FOR THE PV SYSTEM. COORDINATE FINAL LOCATION WITH PV INSTALLER.

DEMOLITION NOTES

- ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
- CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
- ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
- ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
- THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLEING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.

DEFINITION OF TERMS

- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "SCHOOL OF THE HOLY CHILD" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KAEYER, GARMENT, & DAVIDSON ARCHITECTS, P.C." IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "MARSCHALL ALARM SYSTEMS, INC." IS INTENDED.
- "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
 A.) "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 B.) "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 C.) "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
 D.) "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

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ISSUED FOR CONSTRUCTION

KEY PLAN

No.	Date	Issue
7	08/12/2021	Issued for Construction
6	06/25/2021	Issued for Permit
5	02/24/2021	Issued for Bid
4	02/10/2021	Issued for Review
3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design

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ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES

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Scale	AS NOTED	Drawn / Checked	NL / KS
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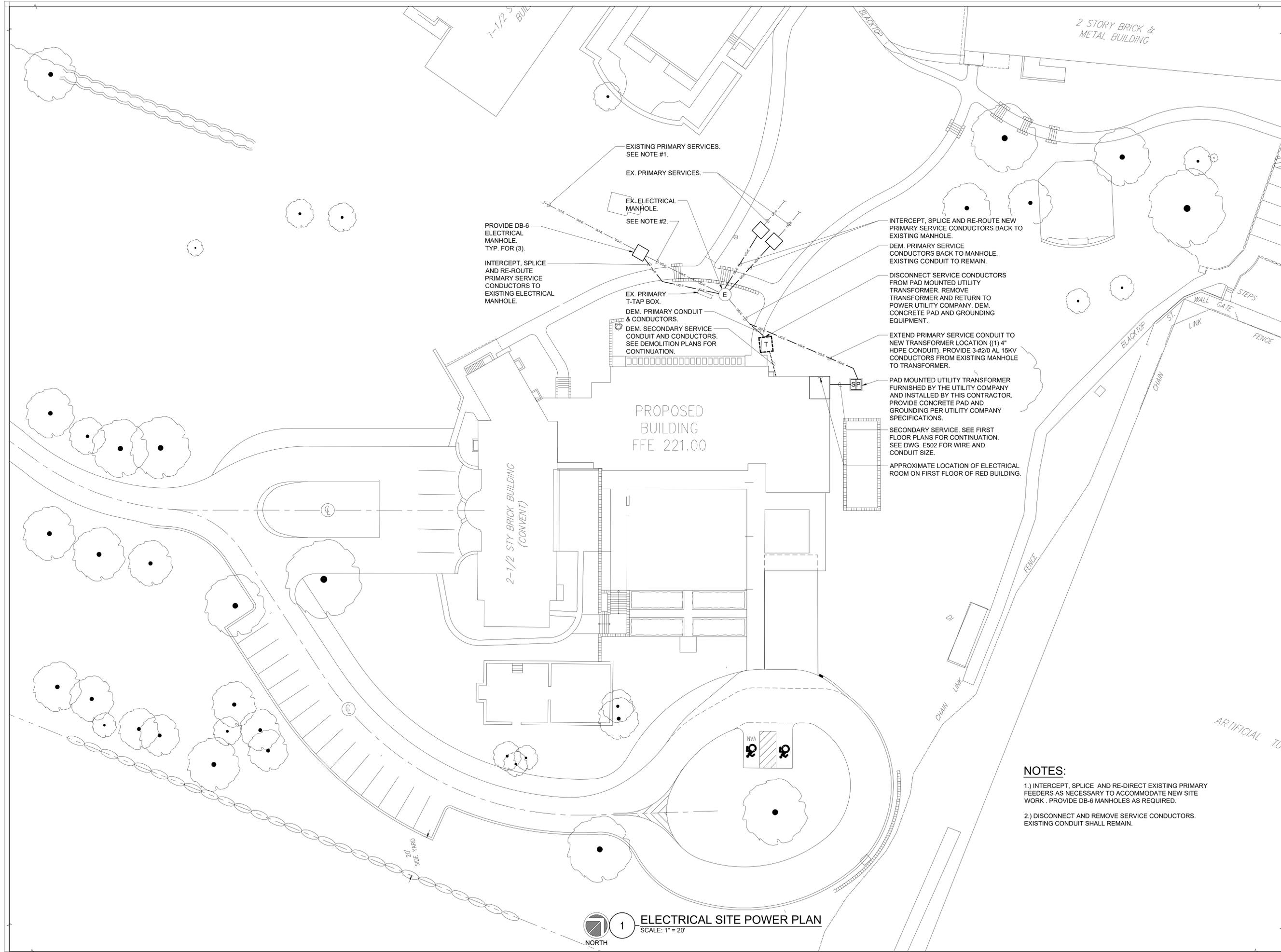
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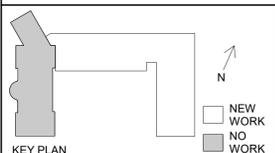
ELECTRICAL SITE POWER PLAN

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL/DS
Sheet Number E100	



NOTES:
 1.) INTERCEPT, SPLICE AND RE-DIRECT EXISTING PRIMARY FEEDERS AS NECESSARY TO ACCOMMODATE NEW SITE WORK. PROVIDE DB-6 MANHOLES AS REQUIRED.
 2.) DISCONNECT AND REMOVE SERVICE CONDUCTORS. EXISTING CONDUIT SHALL REMAIN.

1 ELECTRICAL SITE POWER PLAN
 SCALE: 1" = 20'



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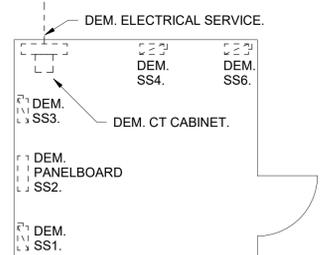
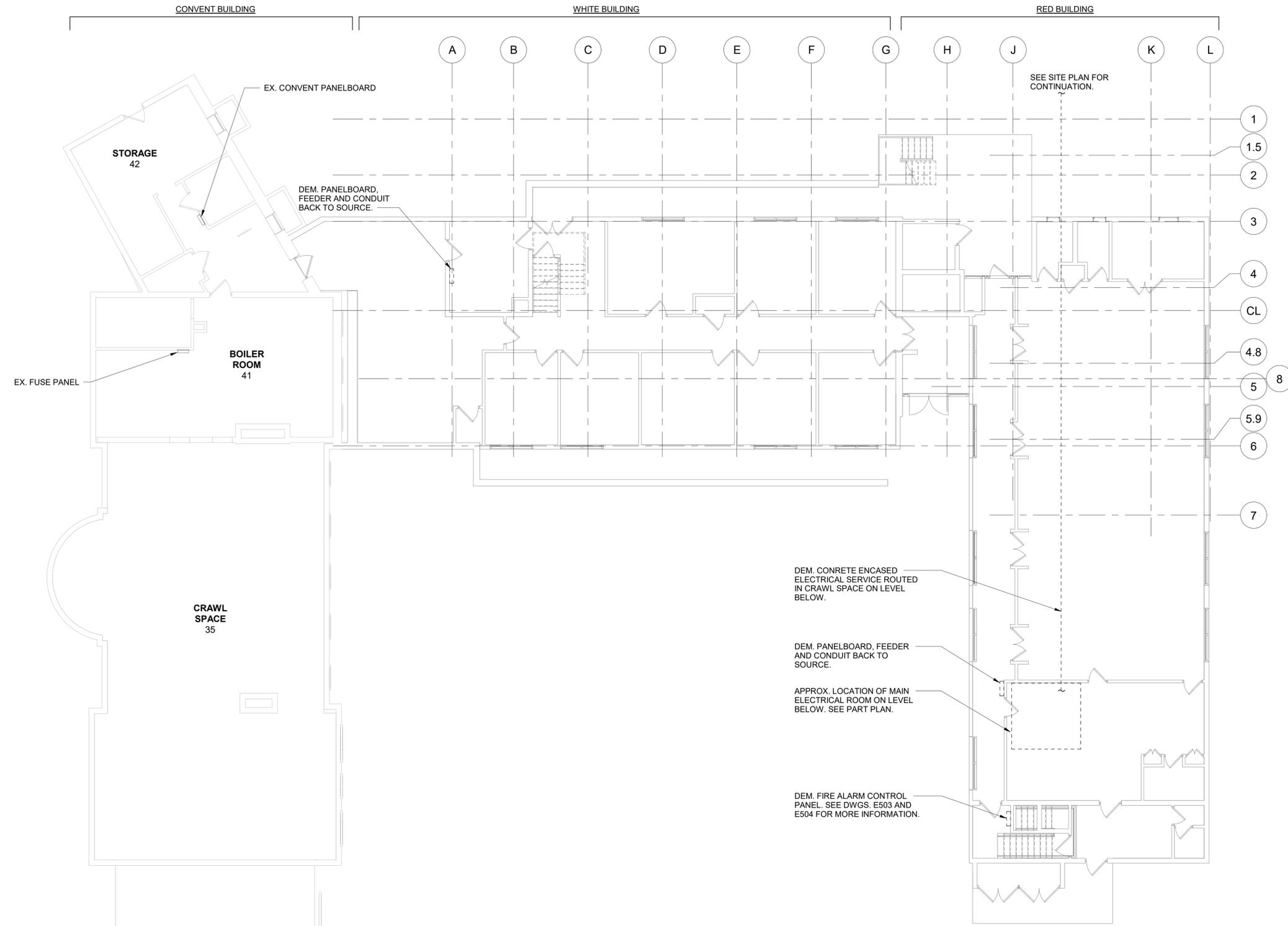
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Sheet Title
ELECTRICAL 1ST FLOOR DEMOLITION PLAN

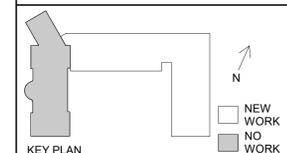
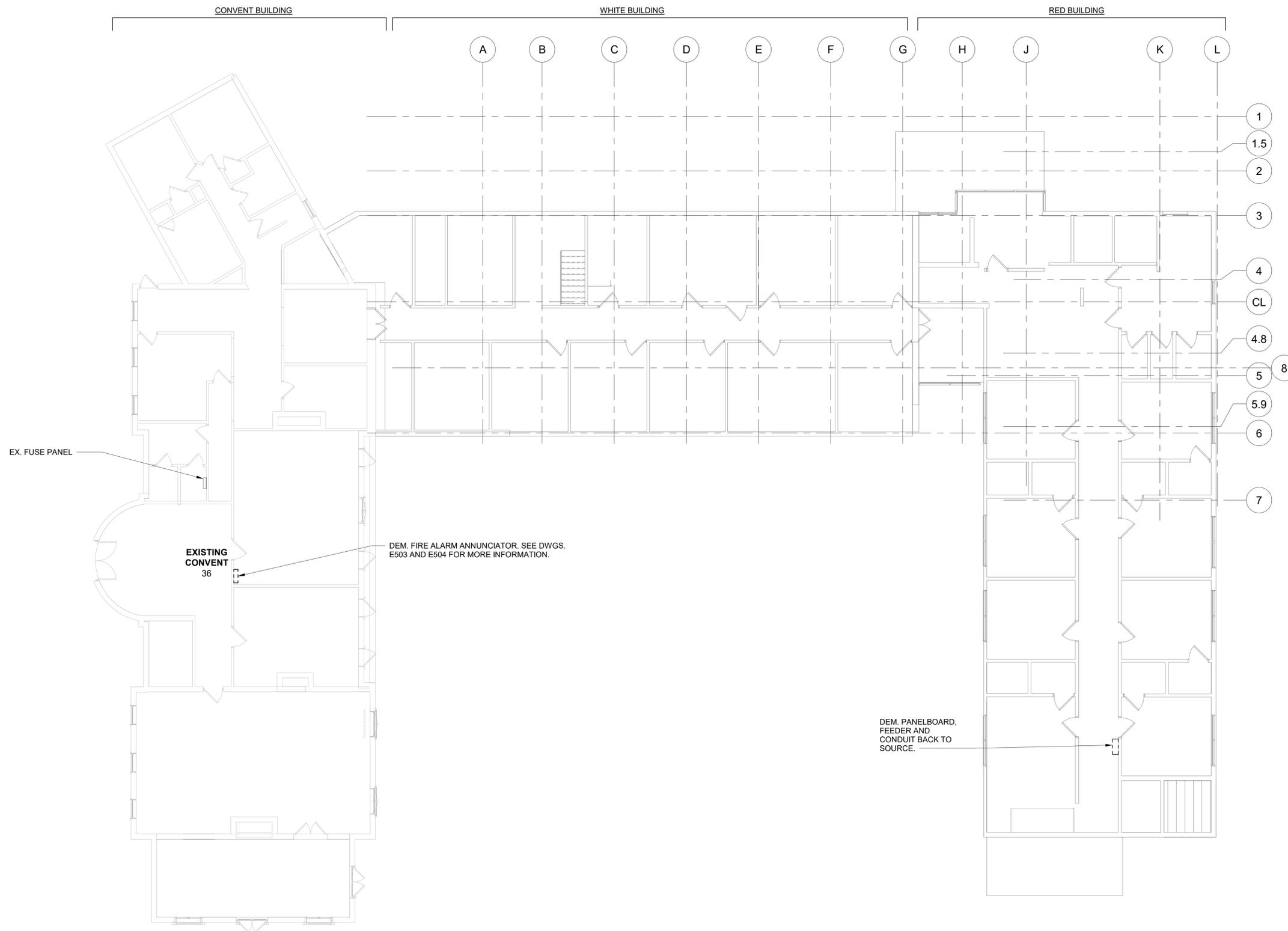
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Sheet Number
E101



1 ELECTRICAL 1ST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

2 ELECTRICAL ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'-0"
NORTH



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3	5/14/2020	90% Construction Documents
2	2/19/2020	Design Development
1	12/18/2019	Schematic Design

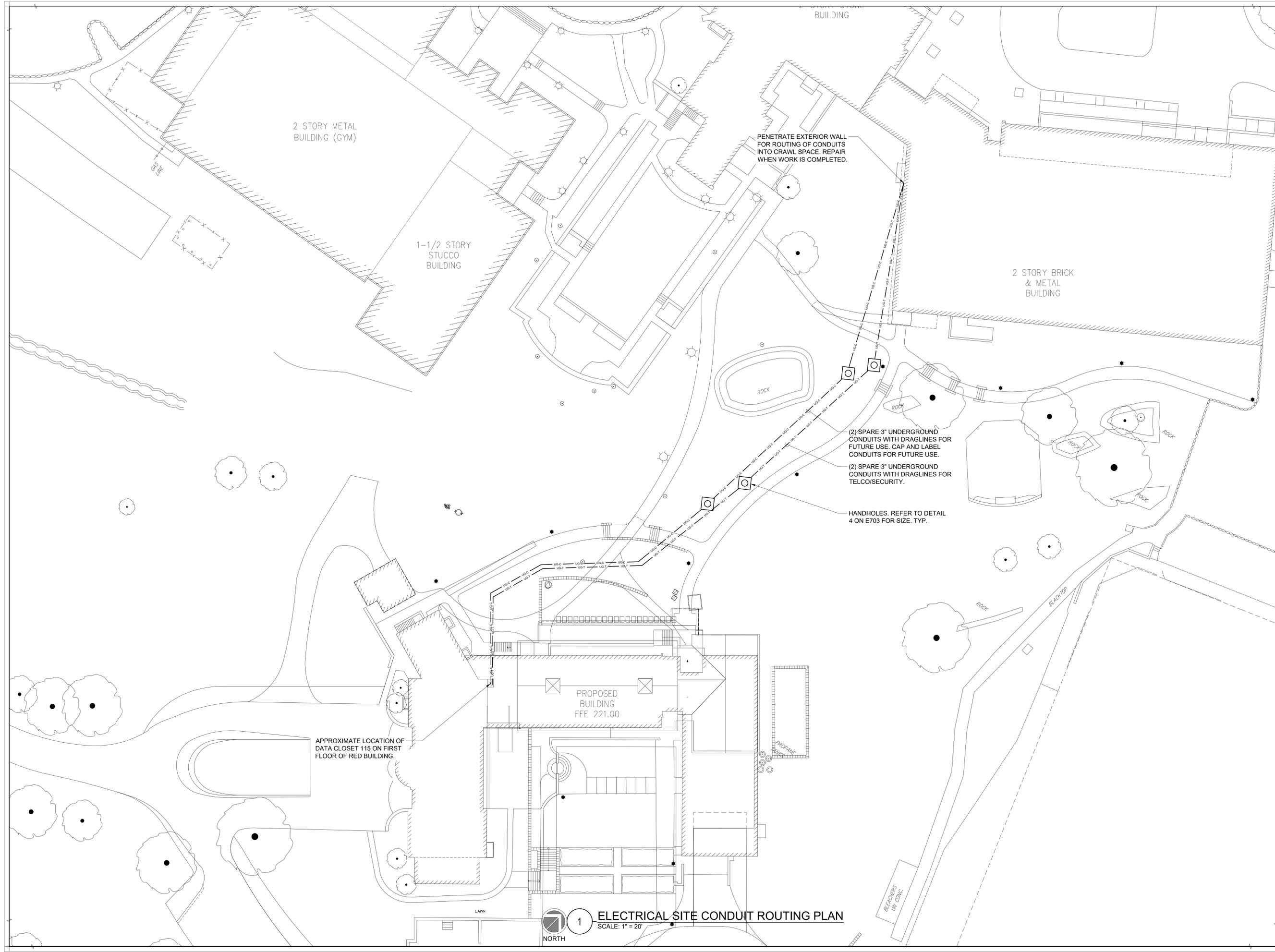
Sheet Title
**ELECTRICAL 2ND FLOOR
DEMOLITION
PLAN**

Job No. NKG0214.00 Date 02/10/2020
Scale AS NOTED Drawn / Checked NL / KS

Sheet Number
E102

ELECTRICAL 2ND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"





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1	12/18/2019	Schematic Design

ELECTRICAL SITE CONDUIT ROUTING PLAN

Job No. NKGD0214.00 Date 06/25/2021
 Scale AS NOTED Drawn / Checked NL/DS

Sheet Number **E103**

1 ELECTRICAL SITE CONDUIT ROUTING PLAN
 SCALE: 1" = 20'
 NORTH

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KEY PLAN

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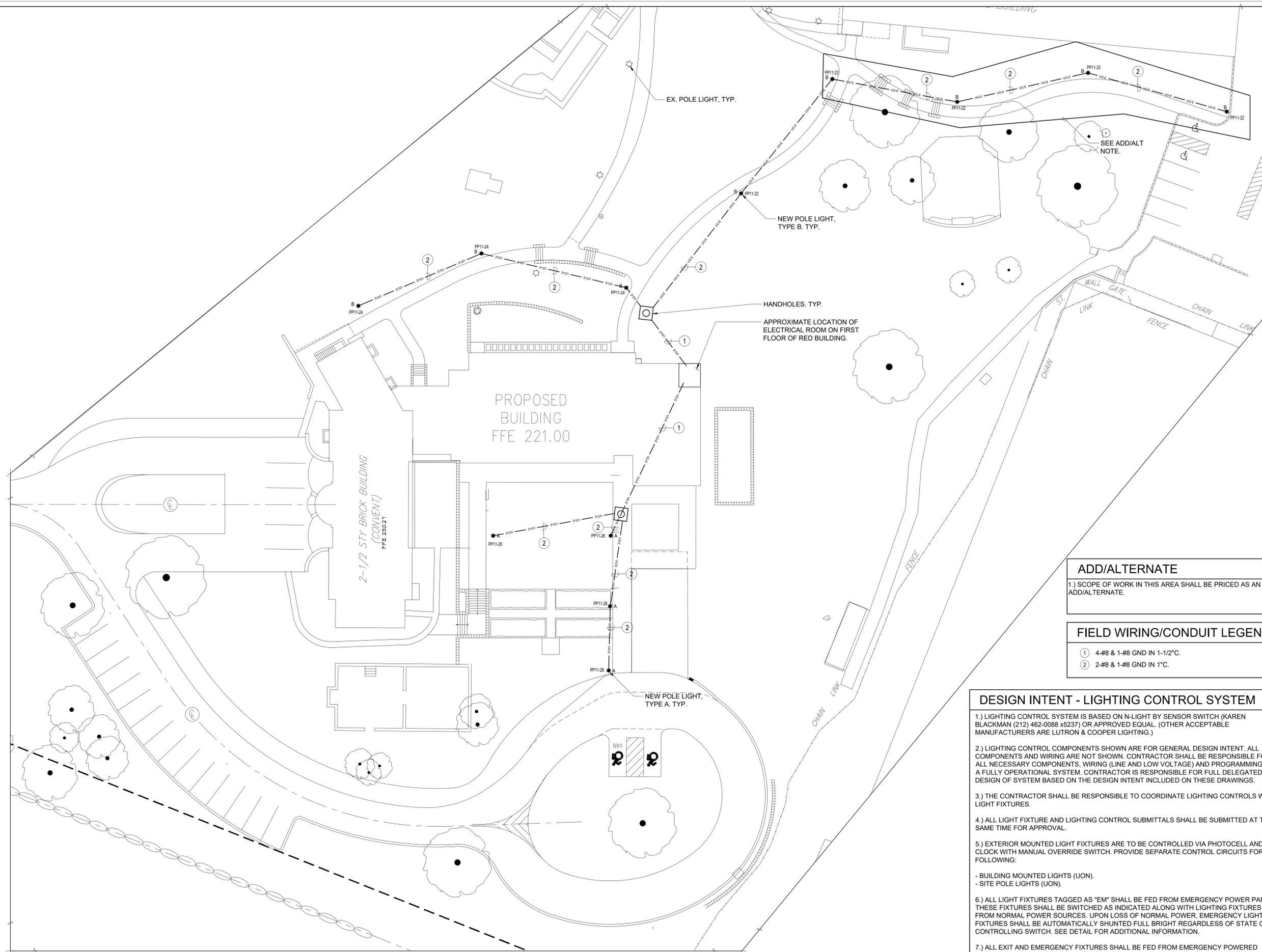
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**ELECTRICAL SITE
LIGHTING PLAN**

Job No.	Date
NKGD0214.00	06/25/2021
Scale	Drawn / Checked
AS NOTED	NL/DS

Sheet Number

E200



ADD/ALTERNATE
1.) SCOPE OF WORK IN THIS AREA SHALL BE PRICED AS AN ADD/ALTERNATE.

FIELD WIRING/CONDUIT LEGEND
① 4-#8 & 1-#8 GND IN 1-1/2" C.
② 2-#8 & 1-#8 GND IN 1" C.

DESIGN INTENT - LIGHTING CONTROL SYSTEM

- 1.) LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 x5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)
- 2.) LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR FULL DELEGATED DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.
- 3.) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.
- 4.) ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.
- 5.) EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH. PROVIDE SEPARATE CONTROL CIRCUITS FOR THE FOLLOWING:
- BUILDING MOUNTED LIGHTS (UON).
- SITE POLE LIGHTS (UON).
- 6.) ALL LIGHT FIXTURES TAGGED AS "EM" SHALL BE FED FROM EMERGENCY POWER PANELS. THESE FIXTURES SHALL BE SWITCHED AS INDICATED ALONG WITH LIGHTING FIXTURES FED FROM NORMAL POWER SOURCES. UPON LOSS OF NORMAL POWER, EMERGENCY LIGHT FIXTURES SHALL BE AUTOMATICALLY SHUNTED FULL BRIGHT REGARDLESS OF STATE OF CONTROLLING SWITCH. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 7.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM EMERGENCY POWERED PANELS.

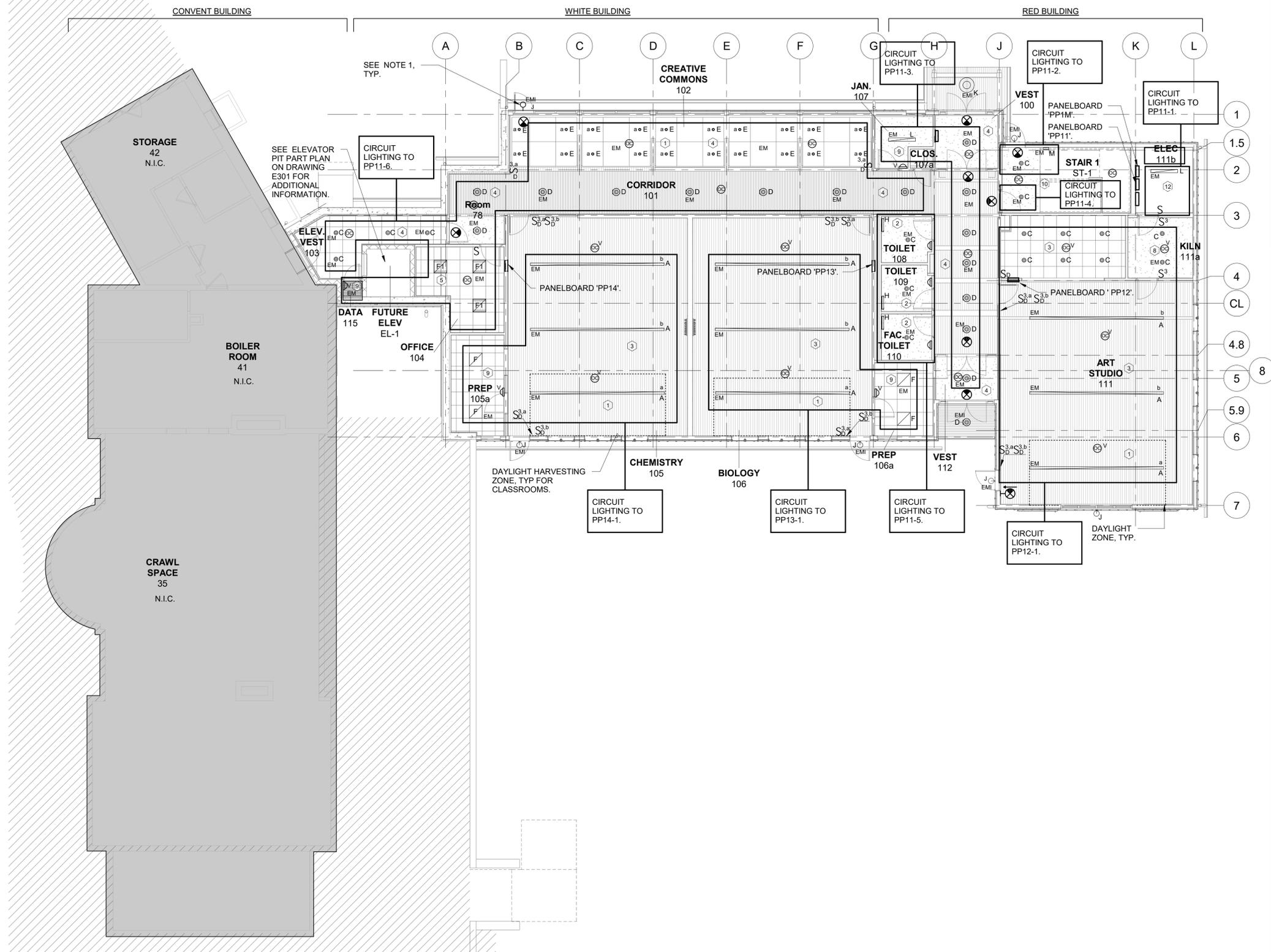
1 ELECTRICAL SITE LIGHTING PLAN
SCALE: 1" = 20'-0"
NORTH

DESIGN INTENT - LIGHTING CONTROL SYSTEM

1. LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 X5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING).
2. LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPONENTS WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR FULL DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.
4. ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.
5. EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.
 - BUILDING MOUNTED LIGHTS (UON)
 - SITE POLE LIGHTS
6. LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN EMERGENCY BATTERY BACKUP BALLASTS. WHERE POSSIBLE, THE BALLAST SHALL BE INTEGRAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY BALLAST IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BALLAST. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK AND FLOURESCENT LAMPS SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 12000 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
7. ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.

LIGHTING CONTROLS LEGEND

- 1 DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR
- 2 LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
- 3 LOW VOLTAGE MANUAL ON WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR. ONE SWITCH CONTROLLING ALL THE LIGHTS IN ROW NEAREST TO TEACHING WALL AND THE OTHER SWITCH CONTROLLING ALL REMAINING LIGHTS IN THE SPACE.
- 4 TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS.
- 5 LOW VOLTAGE WALL MOUNTED SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
- 6 LOW VOLTAGE MANUAL DIMMER SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
- 7 EXTERIOR LIGHTING CONTROLS. SEE DESIGN INTENT, NOTE #5.
- 8 LOW VOLTAGE MANUAL ON WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR
- 9 LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR
- 10 TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS WITH 50% DIMMING. DURING NORMAL BUSINESS HOURS, LIGHT FIXTURES SHALL BE ON FULL BRIGHT. DURING NON-BUSINESS HOURS, LIGHT FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AND SHALL DIM TO 50% WHEN IN OCCUPANCY SENSOR MODE.
- 11 LOW VOLTAGE MANUAL ON WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR
- 12 LINE VOLTAGE WALL SWITCH



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

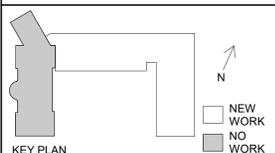
- NOTES:**
- 1) CIRCUIT EXTERIOR LIGHTING TO PP11-7 AND PP11-43.
 - 2) ALL TIMECLOCKS CONTROLLING LIGHT FIXTURES IN CORRIDORS AND STAIRS SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM ON THE FIRST FLOOR.
 - 3) PROVIDE FIVE (5) MINI-INVERTERS SIMILAR TO IOTA IIS-125-I FOR LIGHT FIXTURES D, J AND K BY EXTERIOR DOORS ON THE FIRST FLOOR. LOCATE MINI-INVERTERS ABOVE DROP CEILING.

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1	12/18/2019	Schematic Design

ELECTRICAL 1ST FLOOR LIGHTING PLAN

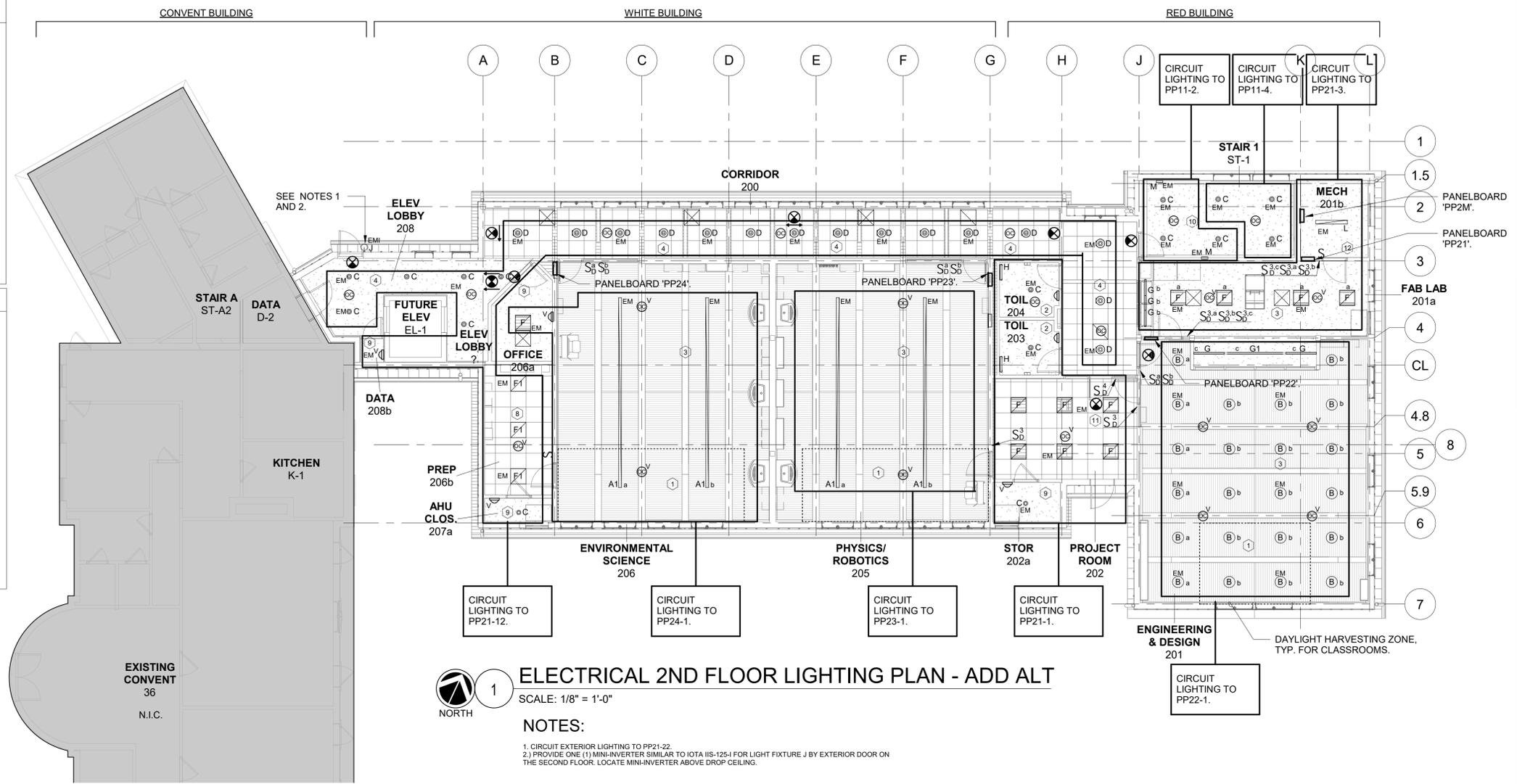
Job No.	NKGD0214.00	Date	02/10/2020
Scale	AS NOTED	Drawn / Checked	NL / KS
Sheet Number	E201		

DESIGN INTENT - LIGHTING CONTROL SYSTEM

1. LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 #5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING).
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4. ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.
5. EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.
 - BUILDING MOUNTED LIGHTS (LION)
 - SITE POLE LIGHTS
6. LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN EMERGENCY BATTERY BACKUP BALLASTS. WHERE POSSIBLE, THE BALLAST SHALL BE INTEGRAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY BALLAST IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BALLAST. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK AND FLOURESCENT LAMPS SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 12000 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
7. ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.

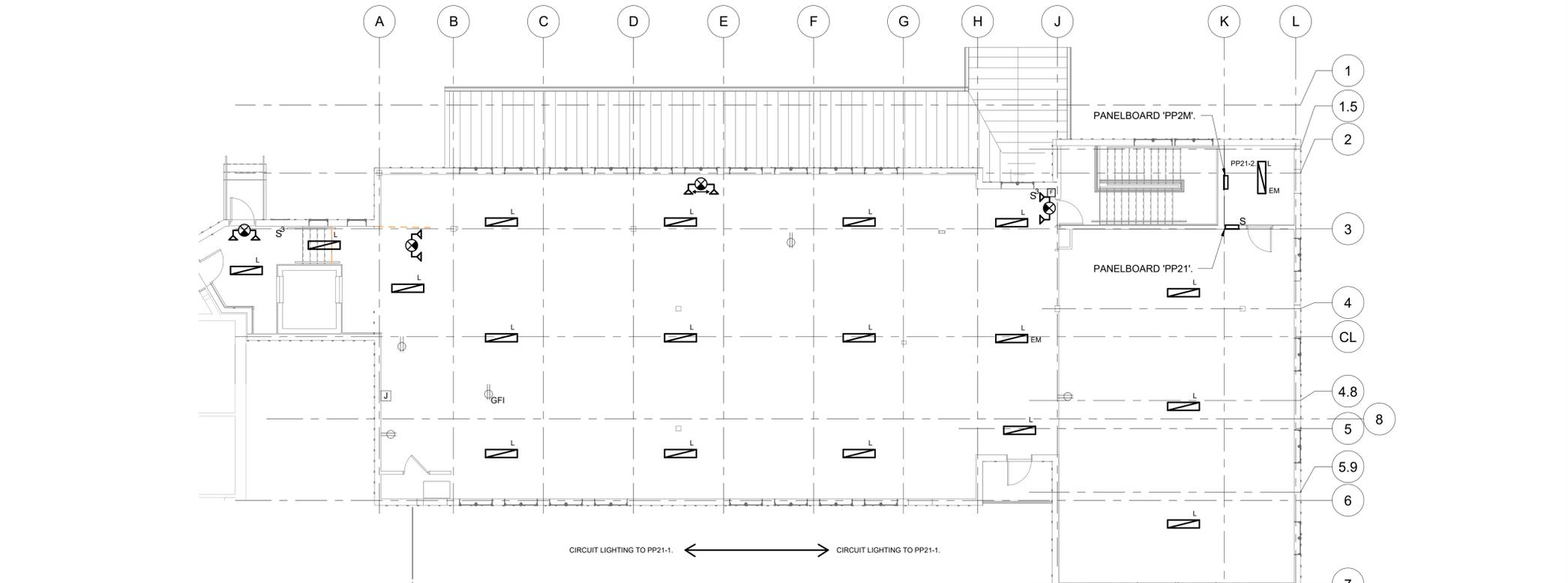
LIGHTING CONTROLS LEGEND

- 1 DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR
- 2 LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
- 3 LOW VOLTAGE MANUAL ON WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR; ONE SWITCH CONTROLLING ALL THE LIGHTS IN ROW NEAREST TO TEACHING WALL AND THE OTHER SWITCH CONTROLLING ALL REMAINING LIGHTS IN THE SPACE.
- 4 TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS.
- 5 LOW VOLTAGE WALL MOUNTED SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 6 LOW VOLTAGE MANUAL DIMMER SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- 7 EXTERIOR LIGHTING CONTROLS. SEE DESIGN INTENT, NOTE #5.
- 8 LOW VOLTAGE MANUAL ON WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- 9 LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR.
- 10 TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS WITH 50% DIMMING. DURING NORMAL BUSINESS HOURS, LIGHT FIXTURES SHALL BE ON FULL BRIGHT. DURING NON-BUSINESS HOURS, LIGHT FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS AND SHALL DIM TO 50% WHEN IN OCCUPANCY SENSOR MODE.
- 11 LOW VOLTAGE MANUAL ON WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- 12 LINE VOLTAGE WALL SWITCH.



1 ELECTRICAL 2ND FLOOR LIGHTING PLAN - ADD ALT
SCALE: 1/8" = 1'-0"

- NOTES:**
1. CIRCUIT EXTERIOR LIGHTING TO PP21-22.
 2. PROVIDE ONE (1) MINI-INVERTER SIMILAR TO IOTA IIS-125-J FOR LIGHT FIXTURE J BY EXTERIOR DOOR ON THE SECOND FLOOR. LOCATE MINI-INVERTER ABOVE DROP CEILING.



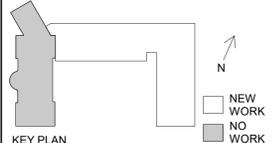
2 ELECTRICAL 2ND FLR NEW WORK LIGHTING PLAN - BASE BID
SCALE: 1/8" = 1'-0"

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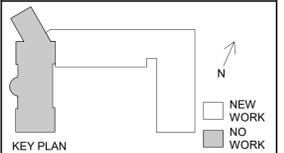
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1	12/18/2019	Schematic Design

ELECTRICAL 2ND FLOOR LIGHTING PLAN

Job No.	NKGD0214.00	Date	02/10/2020
Scale	AS NOTED	Drawn / Checked	NL / KS
Sheet Number	E202		



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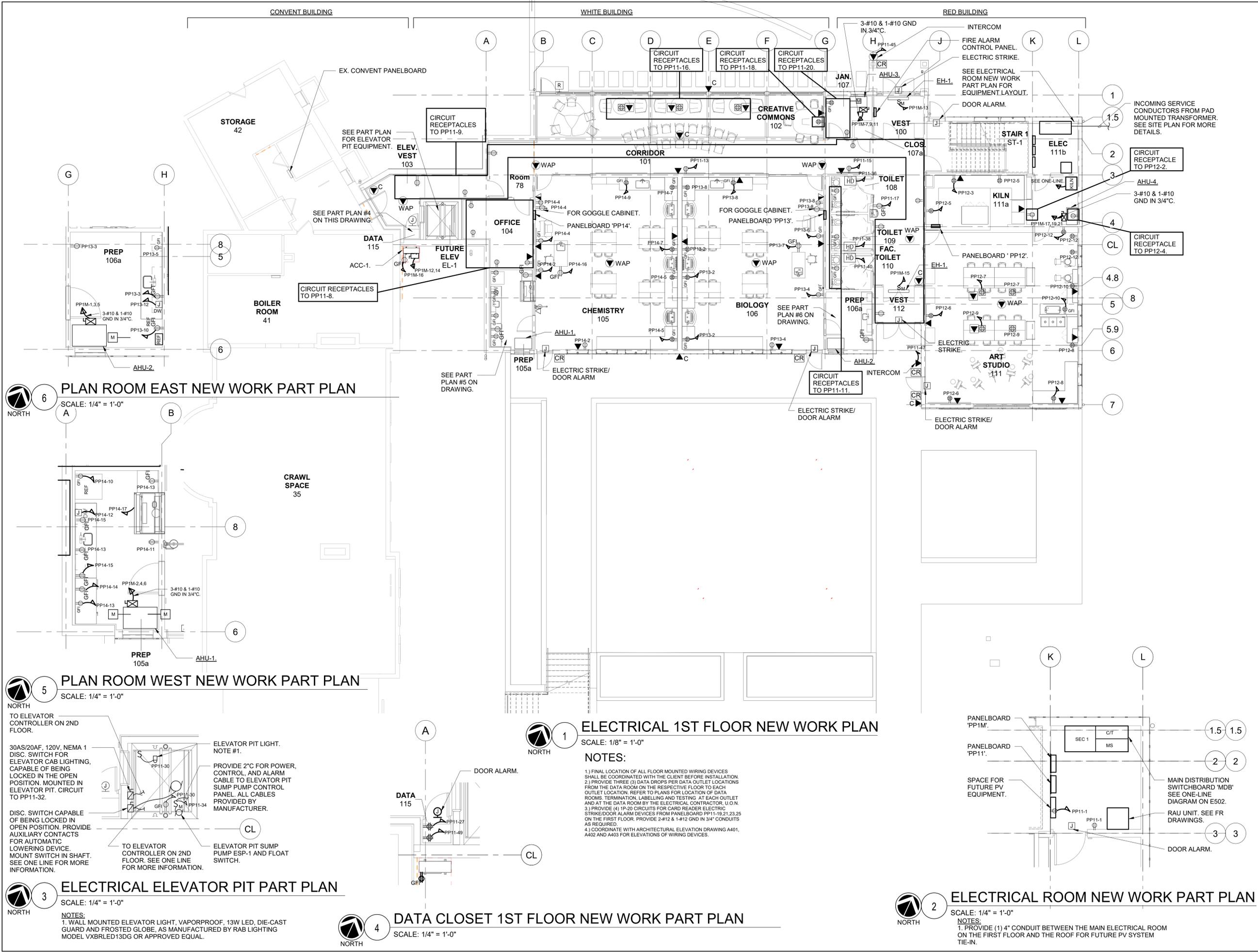
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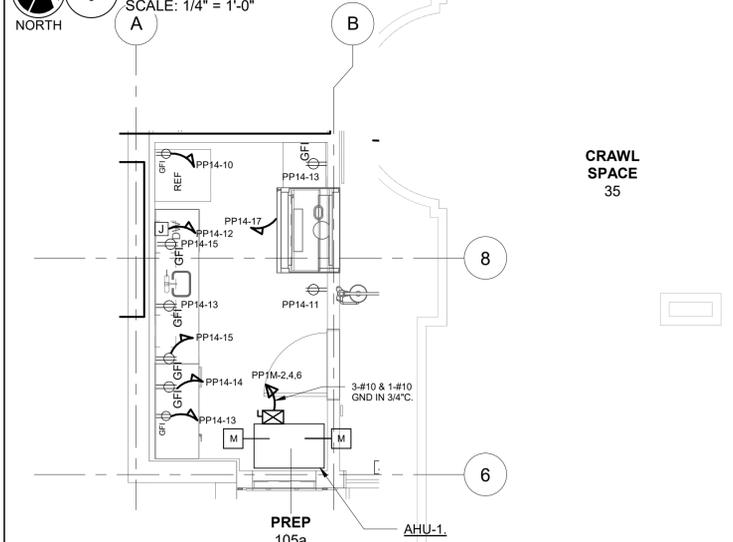
ELECTRICAL 1ST FLOOR NEW WORK PLAN

Job No.	Date
NKGD0214.00	02/10/2020
Scale	Drawn / Checked
AS NOTED	NL / KS
Sheet Number	

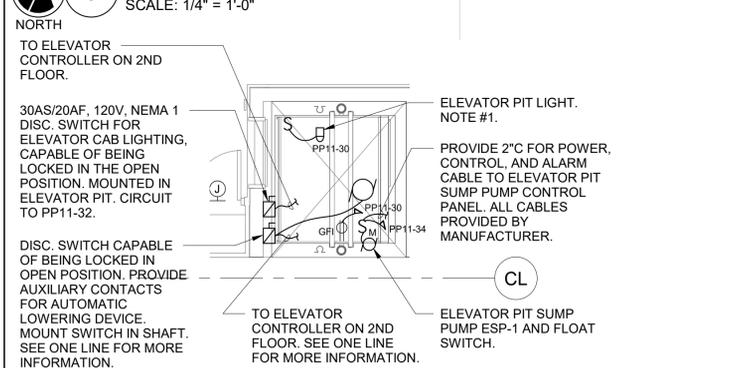
E301



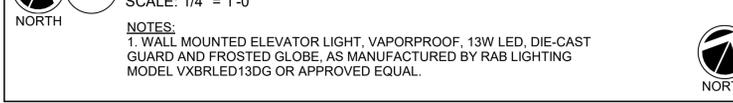
6 PLAN ROOM EAST NEW WORK PART PLAN
 SCALE: 1/4" = 1'-0"



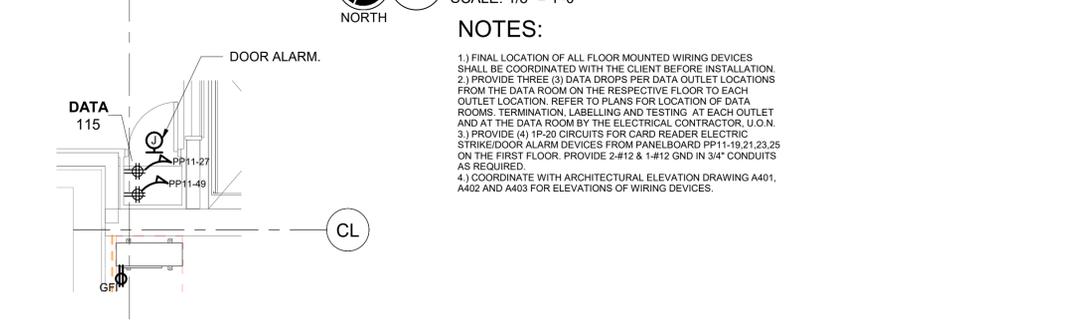
5 PLAN ROOM WEST NEW WORK PART PLAN
 SCALE: 1/4" = 1'-0"



3 ELECTRICAL ELEVATOR PIT PART PLAN
 SCALE: 1/4" = 1'-0"



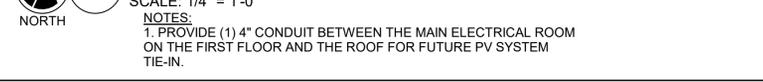
1 ELECTRICAL 1ST FLOOR NEW WORK PLAN
 SCALE: 1/8" = 1'-0"



4 DATA CLOSET 1ST FLOOR NEW WORK PART PLAN
 SCALE: 1/4" = 1'-0"

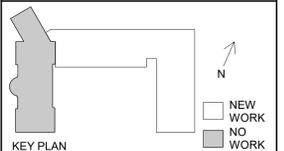


2 ELECTRICAL ROOM NEW WORK PART PLAN
 SCALE: 1/4" = 1'-0"



NOTES:

- 1) FINAL LOCATION OF ALL FLOOR MOUNTED WIRING DEVICES SHALL BE COORDINATED WITH THE CLIENT BEFORE INSTALLATION.
- 2) PROVIDE THREE (3) DATA DROPS PER DATA OUTLET LOCATIONS FROM THE DATA ROOM ON THE RESPECTIVE FLOOR TO EACH OUTLET LOCATION. REFER TO PLANS FOR LOCATION OF DATA ROOMS. TERMINATION, LABELLING AND TESTING AT EACH OUTLET AND AT THE DATA ROOM BY THE ELECTRICAL CONTRACTOR, U.O.N.
- 3) PROVIDE (4) 1P-20 CIRCUITS FOR CARD READER ELECTRIC STRIKE/DOOR ALARM DEVICES FROM PANELBOARD PP11-19,21,23,25 ON THE FIRST FLOOR. PROVIDE 2-#12 & 1-#12 GND IN 3/4" CONDUITS AS REQUIRED.
- 4) COORDINATE WITH ARCHITECTURAL ELEVATION DRAWING A401, A402 AND A403 FOR ELEVATIONS OF WIRING DEVICES.



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2	2/19/2020	Design Development
1	12/18/2019	Schematic Design

ELECTRICAL 2ND FLOOR NEW WORK PLAN

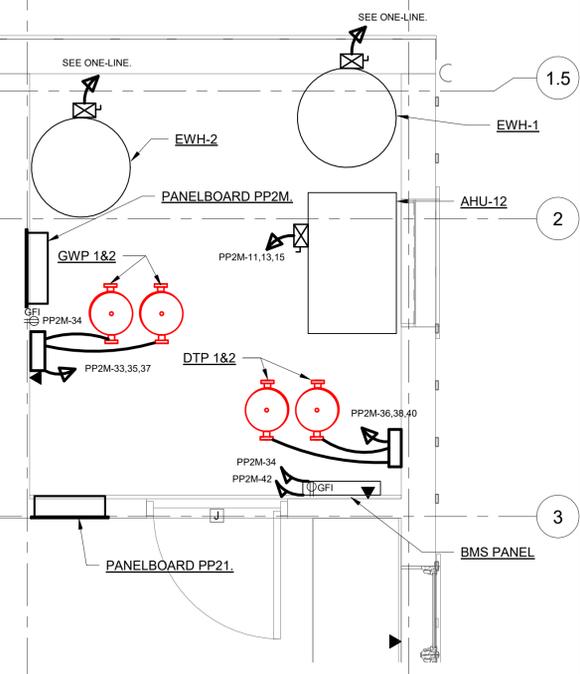
Job No.	Date
NKGD0214.00	02/10/2020
Scale	Drawn / Checked
AS NOTED	NL / KS
Sheet Number	E302

BASE BID:
 ELECTRICAL SCOPE OF WORK ON THE 2ND FLOOR ASSOCIATED WITH THE BASE BID INCLUDE THE FOLLOWING:
 • REFER TO DRAWING E202 DETAIL #2 FOR EM LIGHTING, NORMAL LIGHTING AND EXIT SIGNS WORK ASSOCIATED WITH THE BASE BID.
 • REFER TO DRAWING E402 DETAIL #4 FOR FIRE ALARM WORK ASSOCIATED WITH THE BASE BID. IN ADDITION, THE ENTIRE ELEVATOR SCOPE OF WORK IS PART OF THE BASE BID.
 • NO SHEETROCK OR DROP CEILING ARE BEING INSTALLED ON THE 2ND FLOOR IN THE BASE BID. ALL STUD MOUNTED AND FLOOR MOUNTED DEVICES SHALL BE ROUGH-IN WITH CONDUIT AND CONDUCTORS. CONDUIT AND CONDUCTORS SHALL BE ROUTED AND COILED AT THE RESPECTIVE PANELBOARD LOCATION FROM WHICH IT IS FED. APART FROM PANELBOARDS PP2M AND PP21, NO OTHER SECOND FLOOR PANELBOARDS ARE TO BE INSTALLED.

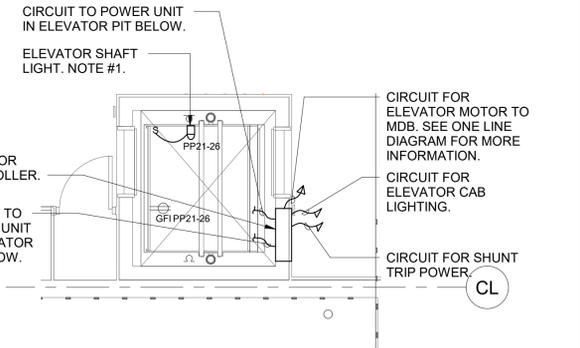
ADD ALTERNATE:
 • THE ENTIRE 2ND FLOOR SHALL BE BUILT OUT AS SHOWN ON PLANS.

DOOR ALARM.
 SEE PART PLAN #4 ON THIS DRAWING FOR CIRCUITING.

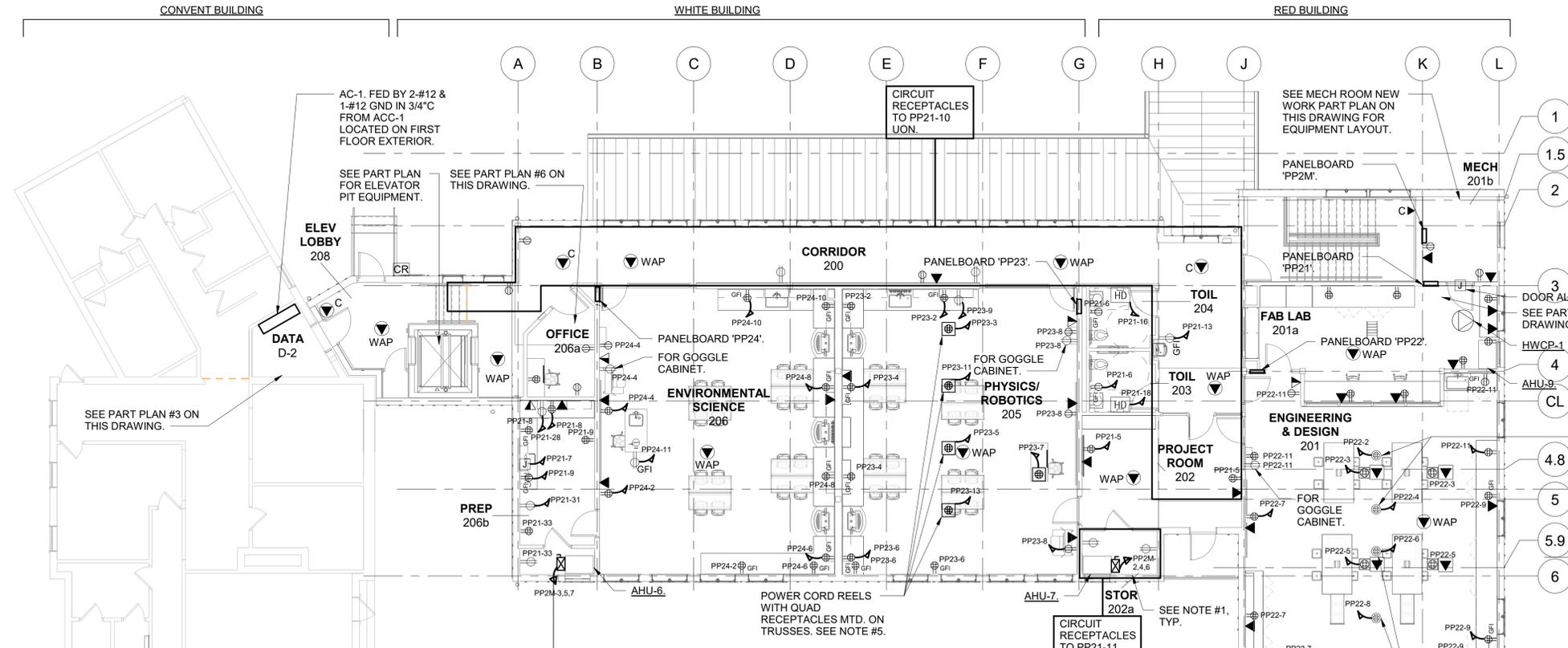
POWER CORD REELS WITH QUAD RECEPTACLES MTD. ON TRUSSES. SEE NOTE #5.



2 MECHANICAL NEW WORK PLAN
 SCALE: 1/2" = 1'-0"

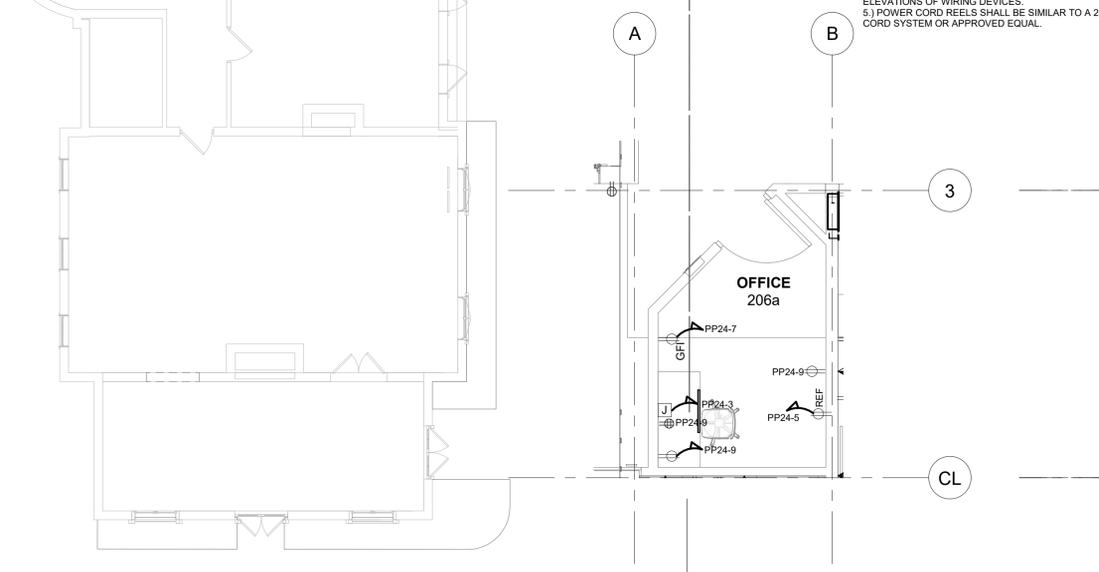
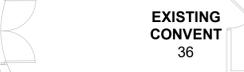


1 ELECTRICAL ELEVATOR SHAFT PART PLAN
 SCALE: 1/4" = 1'-0"
 NOTES:
 1. WALL MOUNTED ELEVATOR LIGHT, VAPORPROOF, 13W LED, DIE-CAST GUARD AND FROSTED GLOBE, AS MANUFACTURED BY RAB LIGHTING MODEL VXBRELD13DG OR APPROVED EQUAL.

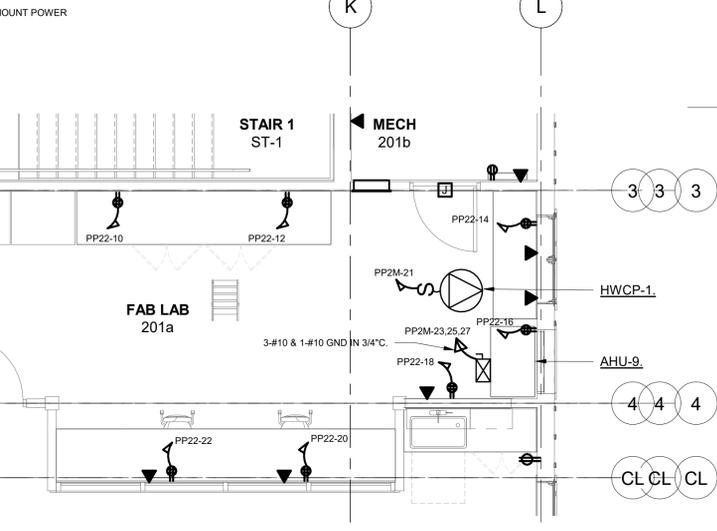


5 ELECTRICAL 2ND FLOOR NEW WORK PLAN

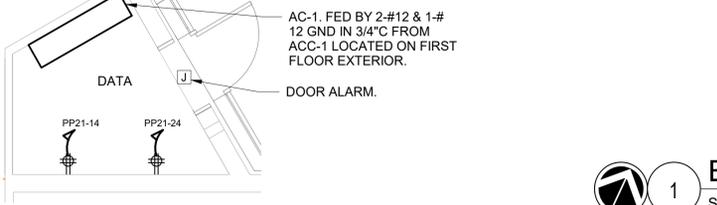
SCALE: 1/8" = 1'-0"
NOTES:
 1) FINAL LOCATION OF ALL FLOOR MOUNTED WIRING DEVICES SHALL BE COORDINATED WITH THE CLIENT BEFORE INSTALLATION.
 2) PROVIDE THREE (3) DATA DROPS PER DATA OUTLET LOCATIONS FROM THE DATA ROOM ON THE RESPECTIVE FLOOR TO EACH OUTLET LOCATION. REFER TO PLANS FOR LOCATION OF DATA ROOMS. TERMINATION, LABELLING AND TESTING AT EACH OUTLET AND AT THE DATA ROOM BY THE ELECTRICAL CONTRACTOR, U.O.N.
 3) PROVIDE (4) 1P-20 CIRCUITS FOR CARD READER ELECTRIC STRIKE/DOOR ALARM DEVICES IN PANELBOARD PP21-15, 17, 19, 21 ON THE SECOND FLOOR. PROVIDE 2-#12 & 1-#12 GND IN 3/4" CONDUITS AS REQUIRED.
 4) COORDINATE WITH ARCHITECTURAL ELEVATION DRAWING A401, A402 AND A403 FOR ELEVATIONS OF WIRING DEVICES.
 5) POWER CORD REELS SHALL BE SIMILAR TO A 25 FEET REEL CEILING MOUNT POWER CORD SYSTEM OR APPROVED EQUAL.



6 SECOND FLOOR PLAN ROOM WEST PART PLAN
 SCALE: 1/4" = 1'-0"



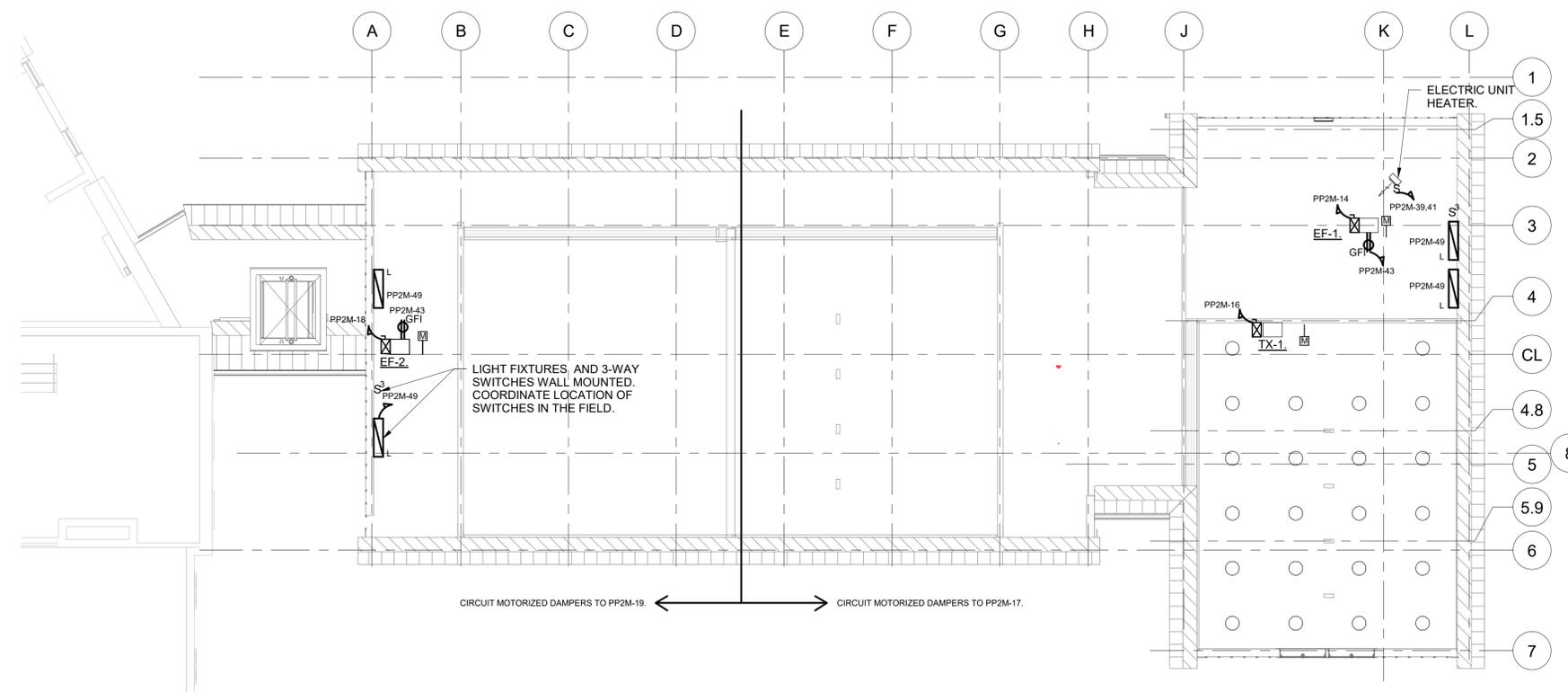
4 FAB LAB NEW WORK PART PLAN
 SCALE: 1/4" = 1'-0"



3 SECOND FLOOR DATA NEW WORK PART PLAN
 SCALE: 1/4" = 1'-0"



ISSUED FOR CONSTRUCTION



1 ELECTRICAL ATTIC NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NOTES:
1. CIRCUIT ALL MOTORIZED DAMPERS TO PP2M-48 AND PP2M-50.

KEY PLAN
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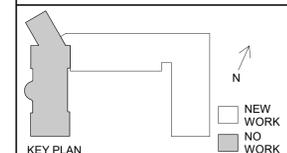
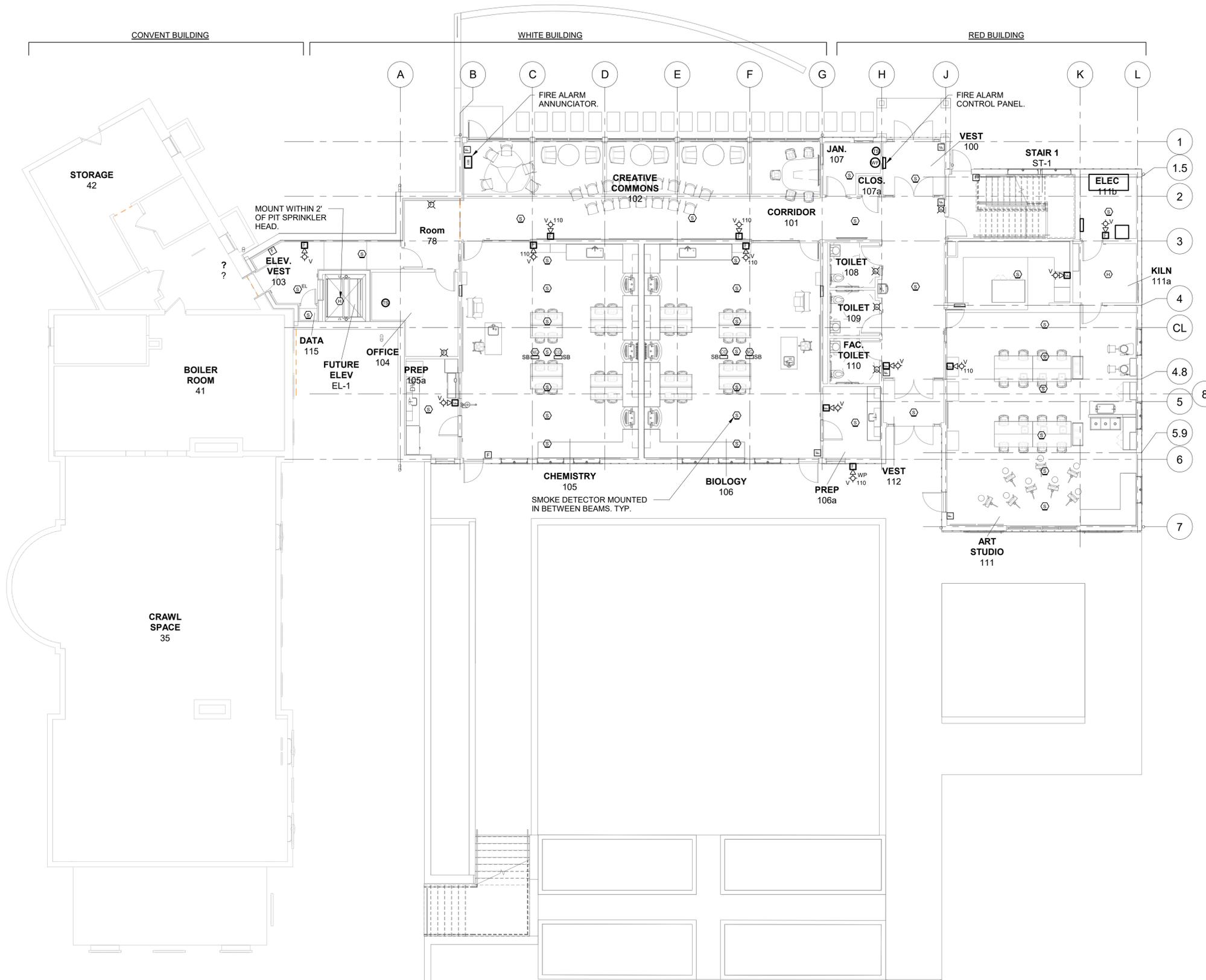
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Sheet Title
**ELECTRICAL
ATTIC NEW
WORK PLAN**

Job No. NKG00214.00	Date 02/10/2020
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Sheet Number
E303



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Sheet Title

FIRE ALARM 1ST FLOOR NEW WORK PLAN

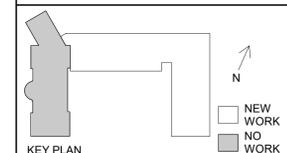
Job No.	NKGD0214.00	Date	02/10/2020
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Sheet Number

E401

1 FIRE ALARM 1ST FLOOR NEW WORK PLAN
SCALE: 1/8" = 1'-0"





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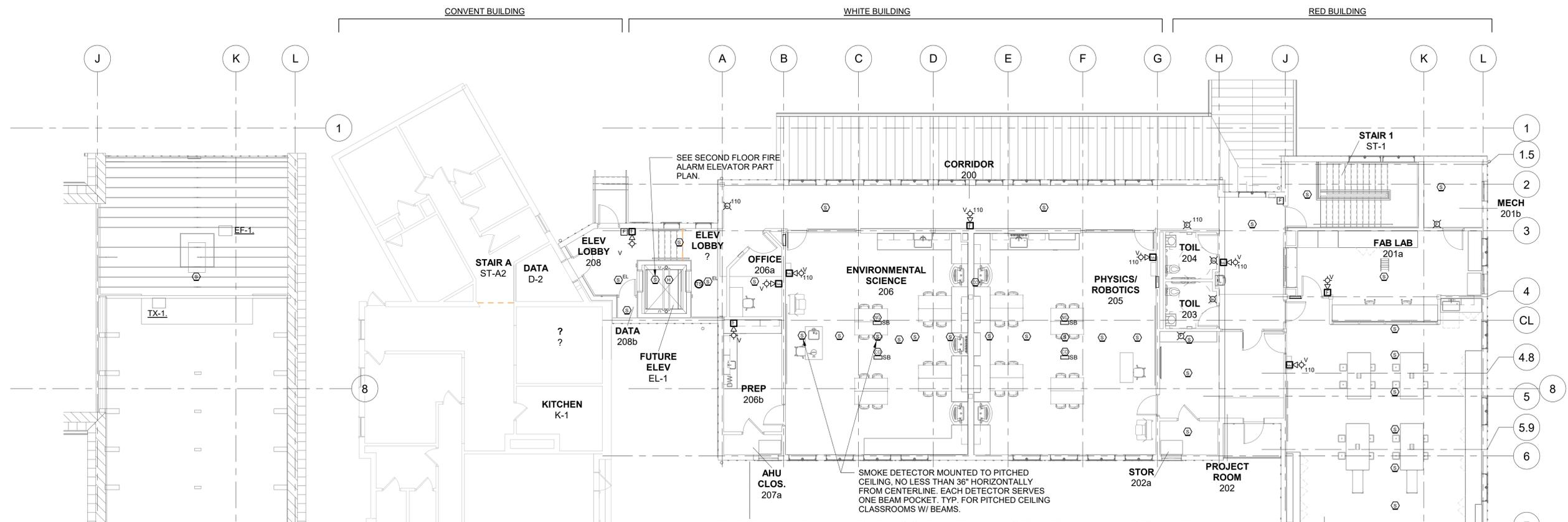
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FIRE ALARM 2ND FLOOR NEW WORK PLAN

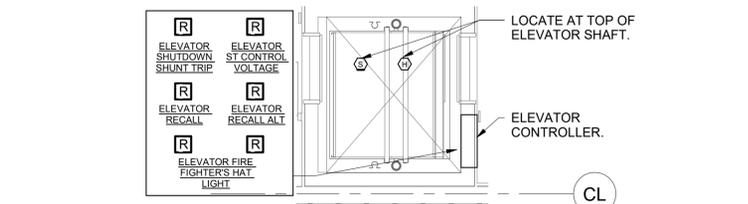
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AS NOTED	NL / KS

Sheet Number
E402

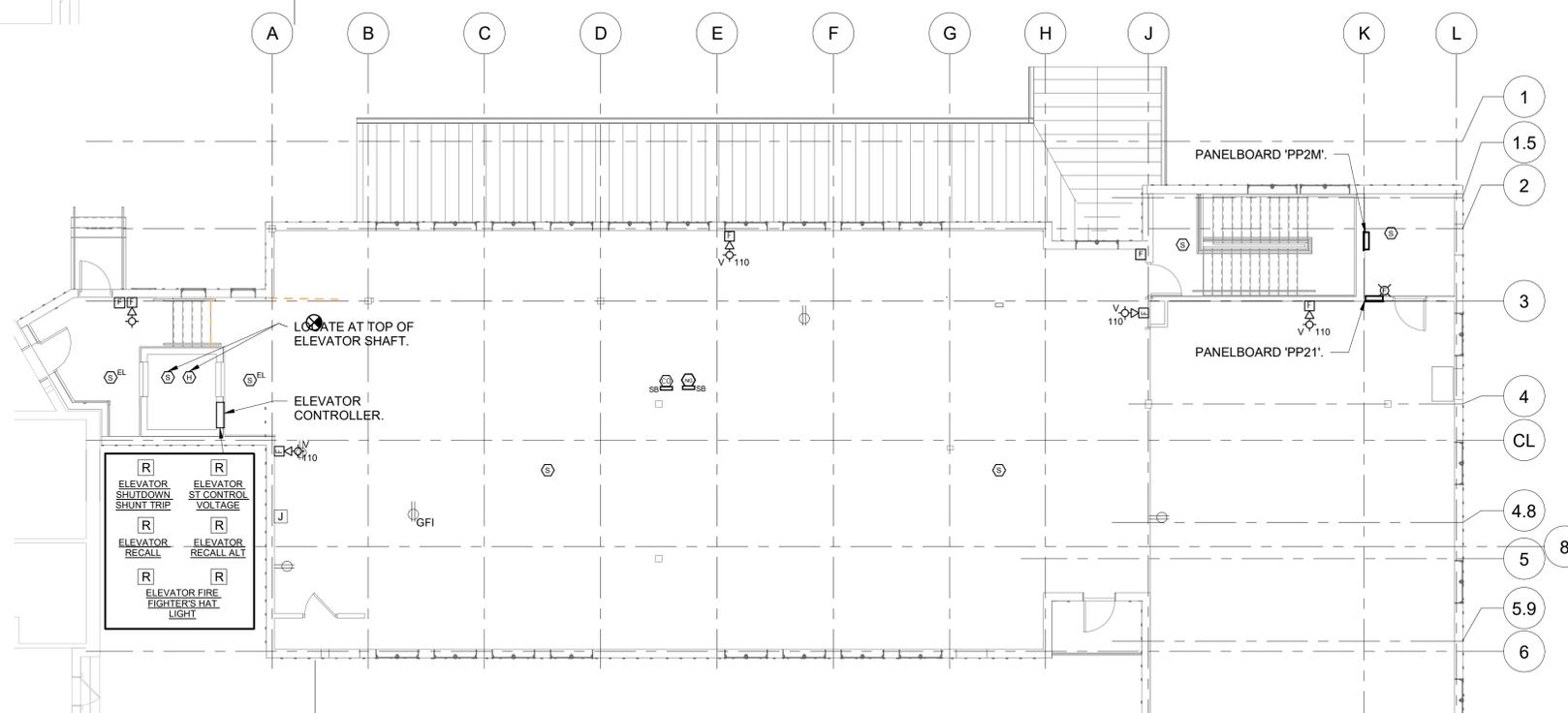


1 FIRE ALARM 2ND FLOOR NEW WORK PLAN - ADD ALT
 SCALE: 1/8" = 1'-0"
 NORTH

2 FIRE ALARM ATTIC NEW WORK PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

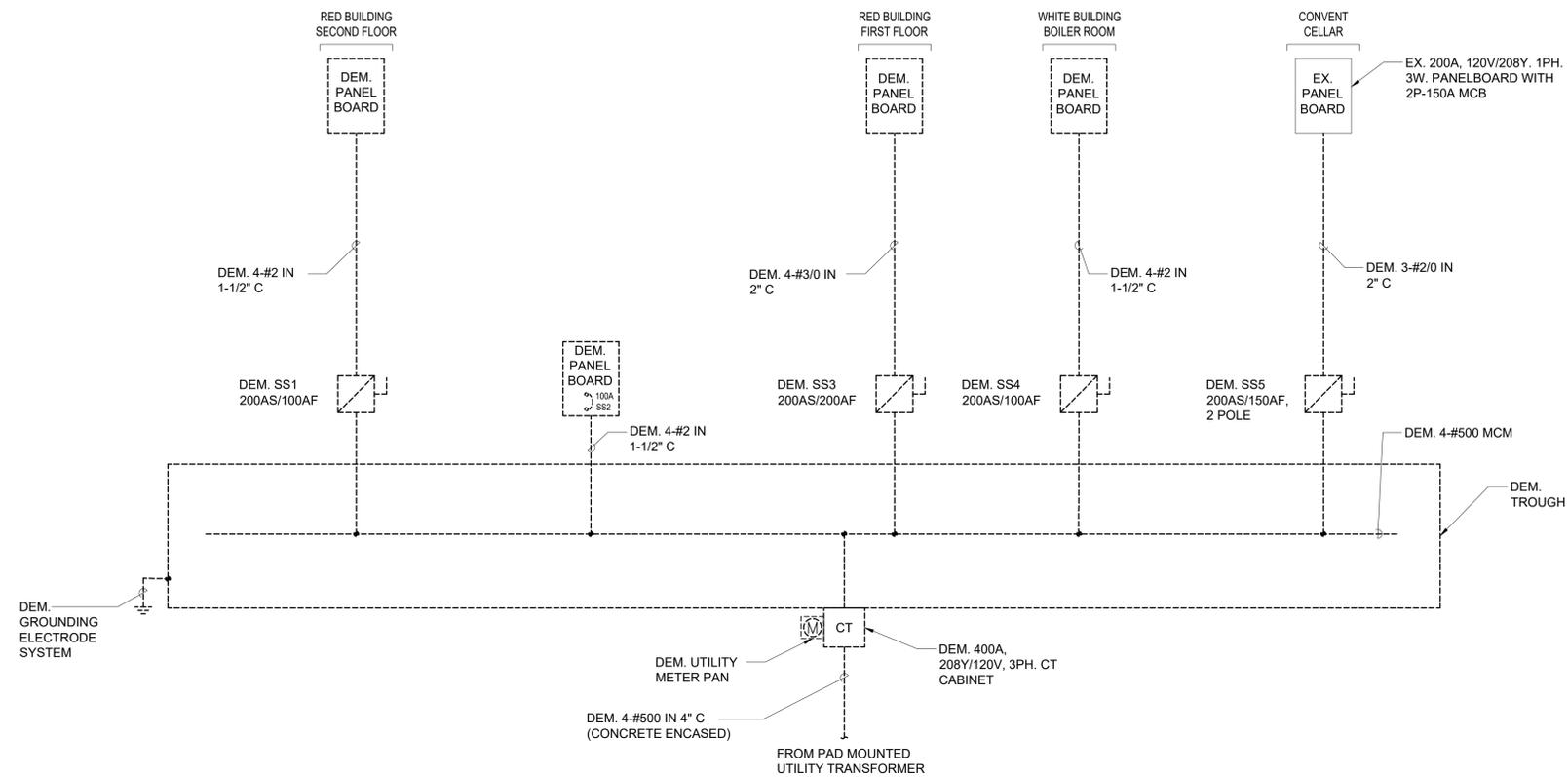


3 FIRE ALARM ELEVATOR SHAFT PART PLAN
 SCALE: 1/4" = 1'-0"
 NORTH



4 ELECTRICAL 2ND FLR NEW WORK FIRE ALARM PLAN - BASE BID
 SCALE: 1/8" = 1'-0"
 NORTH

ISSUED FOR CONSTRUCTION



1 ELECTRICAL ONE-LINE DIAGRAM - DEMO WORK
SCALE: NONE

NOTE:

- 1.) ALL SWITCHES AND CIRCUIT BREAKERS ARE 3 POLE, U.O.N.
- 2.) ALL EQUIPMENT IS LOCATED IN EXISTING BASEMENT ELECTRICAL ROOM U.O.N.

KEY PLAN

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1	12/18/2019	Schematic Design

Sheet Title
**ELECTRICAL
ONE-LINE DIAGRAM
DEMO WORK**

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL/DS

Sheet Number
E501

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KEY PLAN

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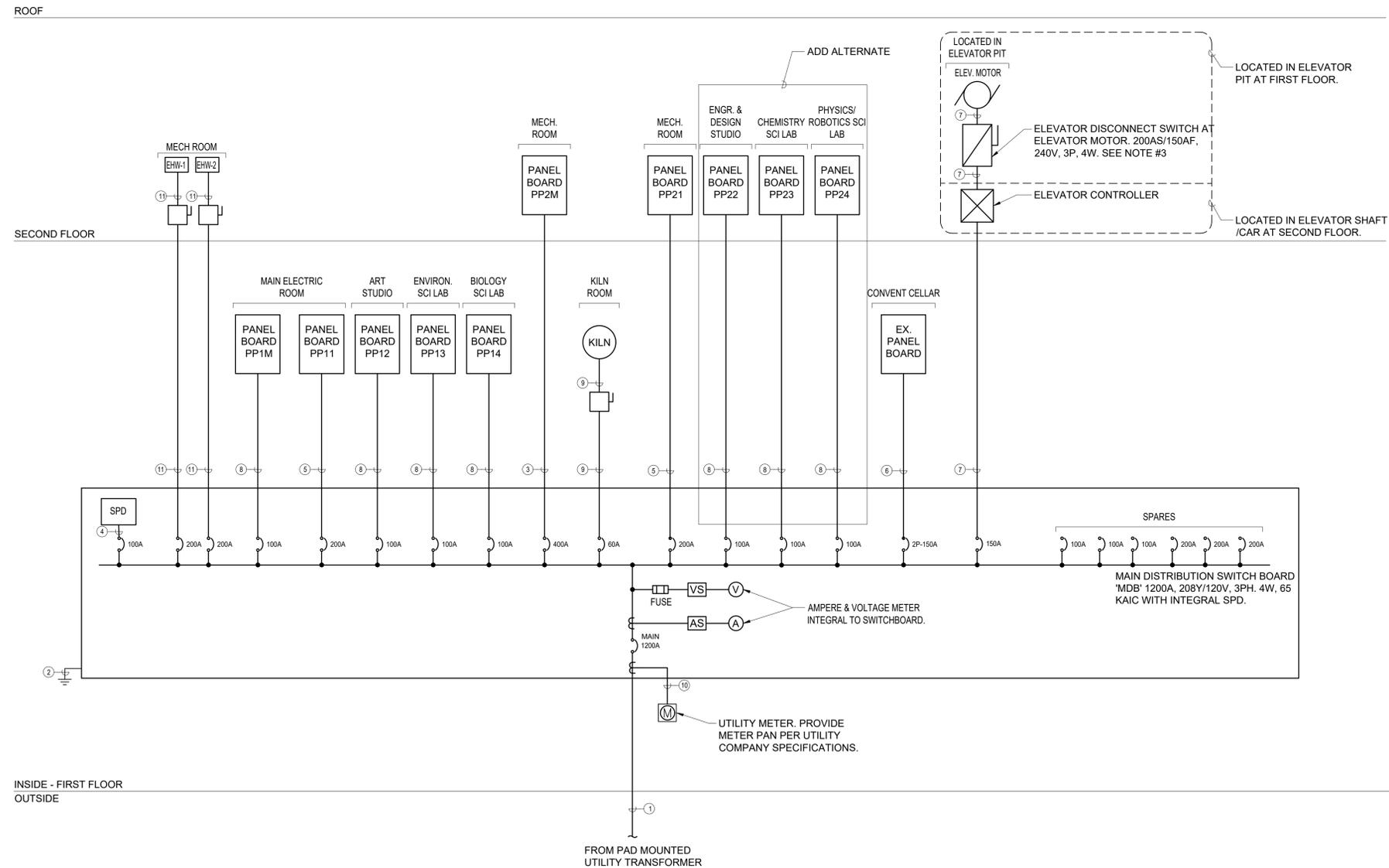
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Sheet Title
ELECTRICAL ONE-LINE DIAGRAM NEW WORK

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL/DS

Sheet Number
E502

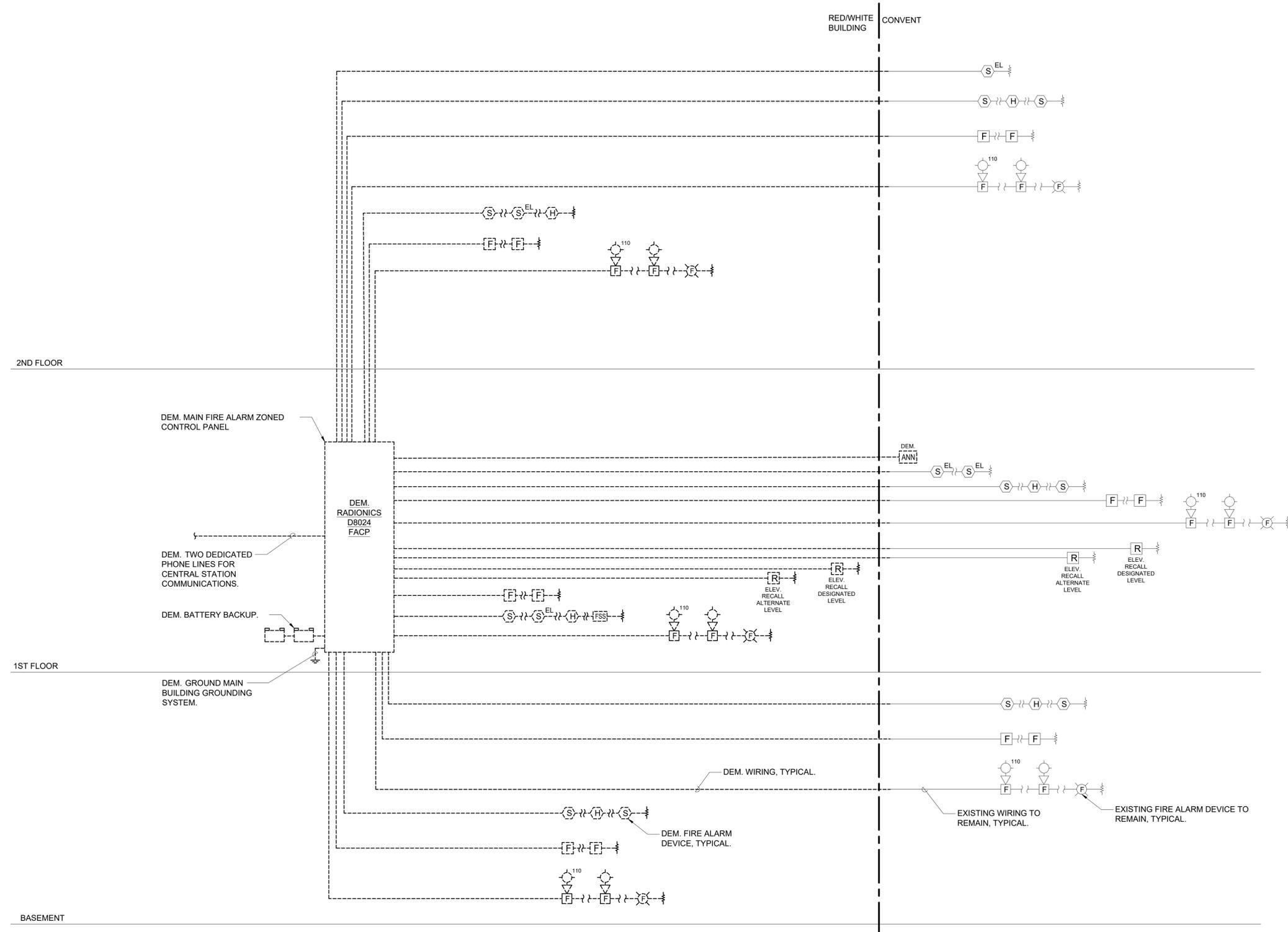


1 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
 SCALE: NONE

- NOTES:**
- 1.) ALL SWITCHES AND CIRCUIT BREAKERS ARE 3 POLE, U.O.N.
 - 2.) ALL EQUIPMENT TO BE INSTALLED IN THE MAIN ELECTRICAL ROOM U.O.N.
 - 3.) ELEVATOR DISCONNECT SWITCH TO HAVE THE CAPABILITY TO BE LOCKED IN THE OPEN POSITION. PROVIDE WITH AUXILIARY CONTACT FOR AUTOMATIC LOWERING DEVICE. MOUNT SWITCH ON STRIKE SIDE OF EMR DOOR, ADJACENT TO LIGHT SWITCH. PROVIDE WITH SHUNT TRIP CAPABILITY AND 2-NO & 2-NC AUXILIARY CONTACTS IN NEMA 1 ENCLOSURE FOR ELEVATOR MOTOR
 - 4.) PANELBOARDS FED WITH 100A FEEDERS SHALL BE RATED 125A, 208Y/120V, 3Ø, 4W PANELBOARD.
 - 5.) PANELBOARDS FED WITH 200A FEEDERS SHALL BE RATED 225A, 208Y/120V, 3Ø, 4W PANELBOARD.

- WIRING/CONDUIT LEGEND:**
- 1) (4) SETS OF 4-#500 MCM IN (4) 4" C
 - 2) #3/0 SERVICE GROUND. REFER TO DETAIL #12 ON DWG. E701.
 - 3) 4-#500 MCM & 1-1/0 GND IN 3" C
 - 4) 5-#2 IN 1-1/2" C
 - 5) 4-#3/0 & 1-#6 GND IN 2" C
 - 6) 3-#1/0 & 1-#6 GND IN 1-1/2" C
 - 7) 3-#1 & 1-#1 GND IN 1-1/2" C
 - 8) 4-#2 & 1-#8 GND IN 1-1/4" C
 - 9) 3-#4 & 1-#10 GND IN 1-1/4" C
 - 10) WIRE AND CONDUIT AS REQUIRED.
 - 11) 3-#3/0 & 1-#6 GND IN 2" C

ISSUED FOR CONSTRUCTION



1 FIRE ALARM RISER DIAGRAM - DEMO WORK
SCALE: NONE

KEY PLAN

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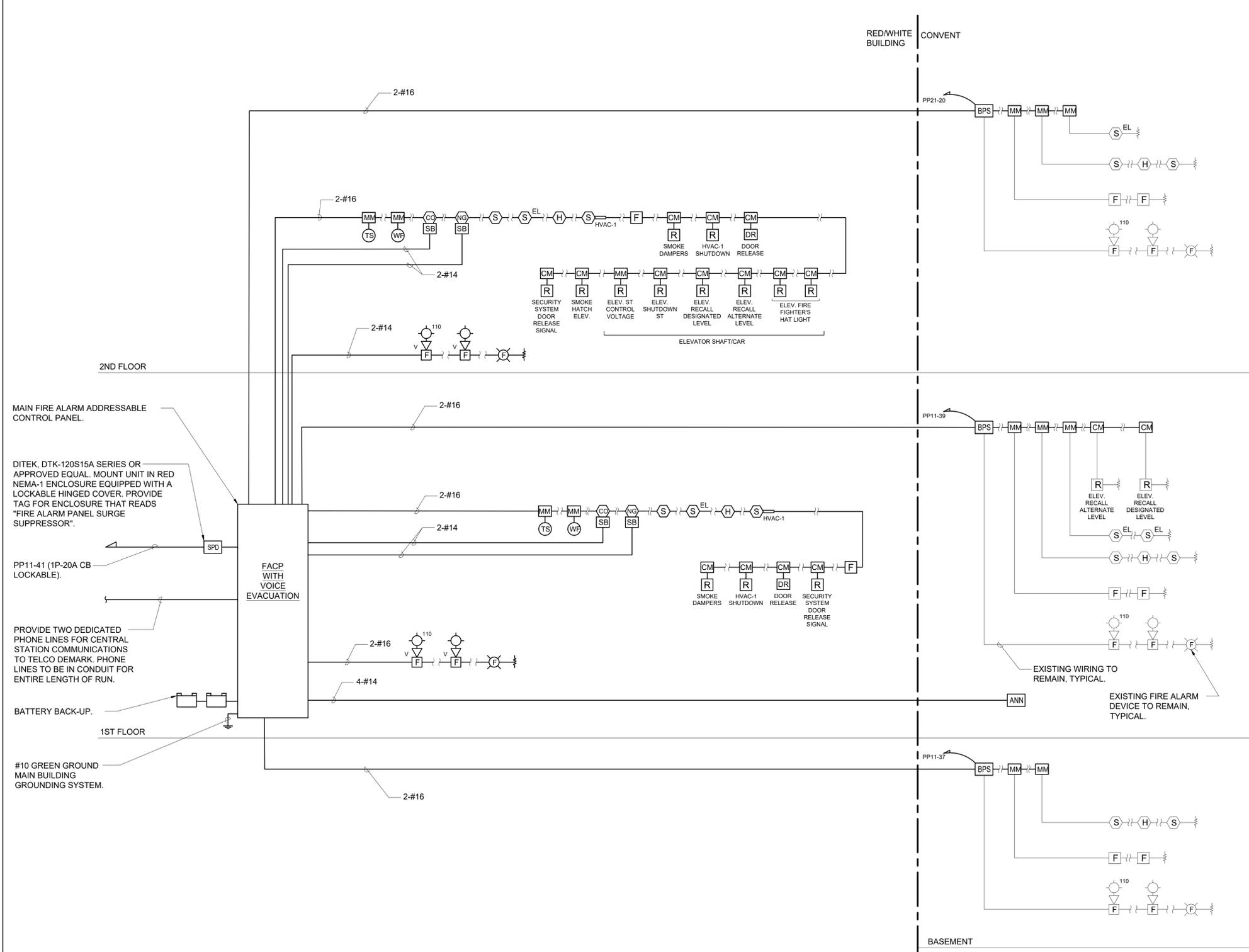
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Sheet Title
**FIRE ALARM
RISER DIAGRAM
DEMO WORK**

Job No. NKGD0214.00	Date 06/25/2021
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Sheet Number
E503



MAIN FIRE ALARM ADDRESSABLE CONTROL PANEL.

DITEK, DTK-120S15A SERIES OR APPROVED EQUAL. MOUNT UNIT IN RED NEMA-1 ENCLOSURE EQUIPPED WITH A LOCKABLE HINGED COVER. PROVIDE TAG FOR ENCLOSURE THAT READS "FIRE ALARM PANEL SURGE SUPPRESSOR".

PP11-41 (1P-20A CB LOCKABLE).

PROVIDE TWO DEDICATED PHONE LINES FOR CENTRAL STATION COMMUNICATIONS TO TELCO DEMARK. PHONE LINES TO BE IN CONDUIT FOR ENTIRE LENGTH OF RUN.

BATTERY BACK-UP.

#10 GREEN GROUND MAIN BUILDING GROUNDING SYSTEM.

1 FIRE ALARM RISER DIAGRAM - NEW WORK
SCALE: NONE

RISER NOTES:

- 1.) THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
- 2.) ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- 3.) QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
- 4.) PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED TO CONNECT EXISTING DEVICES TO NEW SYSTEM.
- 5.) PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
- 6.) PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL FIFTEEN (15) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE FIFTEEN (15) FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
- 7.) HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.
- 8.) DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
- 9.) CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL BE MOUNTED ON SOUNDER BASES WHICH PROVIDE LOCAL ALARM ONLY IN A TEMPORAL 4 PATTERN OR CONSTANT TONE.
- 10.) NATURAL GAS DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM BUT SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY.
- 11.) ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
- 12.) ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
- 13.) PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
- 14.) CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.
- 15.) CONTROL MODULES USED TO INITIATE EMERGENCY CONTROL FUNCTIONS THAT DO NOT FAIL IN A SAFE POSITION SHALL BE LOCATED WITHIN 3 FEET OF THE COMPONENT CONTROLLING THE EMERGENCY CONTROL FUNCTION PER NFPA 72. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL MODULES CONNECTED TO FAN MOTOR CONTROLLERS, ELEVATOR CONTROLLERS, ETC.
- 16.) BATTERY BACKUP FOR FACP SHALL PROVIDE A MINIMUM OF 24 HOURS OF STAND BY POWER FOLLOWED BY 45 MINUTES OF ALARM.
- 17.) ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC SHALL BE PAINTED "FIRE DEPARTMENT RED".

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4	02/10/2021	Issued for Review
3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design

Sheet Title

FIRE ALARM RISER DIAGRAM NEW WORK

Job No. NKGD0214.00 Date 06/25/2021

Scale AS NOTED Drawn / Checked NL/DS

Sheet Number

E504

LIGHTING FIXTURE SCHEDULE						
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS
INTERIOR						
A	LEDALITE	12-0-1-L-C-C-Q-E -16-N-D-E	45.6W/4FT LED 80 CRI/3000K 4900 LM/4FT	UNV	SUSPENDED	'JUMP' LINEAR LED. TO BE SUSPENDED ALONG BOTTOM CHORD OF TRUSSES WITH AIRCRAFT CABLE. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM". COORDINATE FINISH, MOUNT TYPE AND SUSPENSION HEIGHT WITH ARCHITECT.
A1		12-0-1-L-C-C-Q-E -20-N-D-E				
B	DELRAY	IL7801-1050-W30-1 -D-W11-EM	13W/56W LED UP/DOWN 3000K 2275/5400 LM	120	SUSPENDED	'INDUSTRIAL'. LOW BAY LED WITH UP AND DOWN LIGHTING, HOUSED IN DIE-CAST ALUMINUM. STANDARD 6FT POWER CORD, OR SPECIFY FOR ADDITIONAL LENGTH. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
C	PHILIPS	C6-R-EM/C6-L-25-8-30-M- Z10/C6-R-DL-CC	21.3W LED 3500K 2454 LM	UNV	RECESSED	'LIGHTOILER'. 2'X2' RECESSED PLENUM LUMINAIRE. FRAME: 6R-N-EM; TRIM: C6-R-DL-CC. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
D	DELRAY	KLS33-3-W30-D- EM-120	33W LED 92 CRI 3000 LM	120	SURFACE	'KONE3 KLS33'. SEMI-RECESSED DOWNLIGHT. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
E	3G LIGHTING	3G-DL33RF70-15-S80- 30K-60D-UNV- DIM-WT-NC-F-SF70	14W LED 80 CRI 1484LM	120	RECESSED	PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
F/F1	PHILIPS	2-ST-G-30L-830- 2-DS-UNV-DIM-EMLD	26.3W LED 80 CRI/3000K 3000 LM	UNV	RECESSED	'DAY-BRITE CFI'. 2'X2' RECESSED PLENUM LUMINAIRE. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
G	FOCAL POINT	FSM2L-FL-125LF- 30K-1C-UNV-LD1- CXF2-EM-WH	5W/4FT LED 80 CRI/3000K 125 LM/1FT	UNV	RECESSED	'SEEM 2'. RECESSED, WALL TO CEILING CORNER, LED LUMINAIRE. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
H	WAC	WS-77624-30-AL	20W LED 3000K 1440 LM	UNV	WALL	'BRINK'. BATHROOM SCNCE. HOUSED IN ALUMINUM WITH BRUSHED FINISH. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
J	HUBBARDTON FORGE	302711-1000	50W INCANDESCENT PAR20 BULB	120	WALL	'HENRY DARK SKY FRIENDLY OUTDOOR SCNCE'. OUTDOOR GOOSENECK SCNCE. UL OUTDOOR RATED. INCANDESCENT LAMPING MAX 50W. BULB NOT INCLUDED. PROVIDE WITH REMOTE MINI-INVERTER BATTERY WHERE DESIGNATED BY "EM".
K	HUBBARDTON FORGE	363010-1010	100W INCANDESCENT A19 BULB	120	PENDANT	'HENRY OUTDOOR PENDANT'. OUTDOOR PENDANT FIXTURE. UL OUTDOOR RATED. INCANDESCENT LAMPING 100W MAX. BULB NOT INCLUDED. PROVIDE WITH REMOTE MINI-INVERTER BATTERY WHERE DESIGNATED BY "EM".
L	PHILIPS	LBX-40L-835-UNV- FD-EMLD	31W LED 80 CRI/3000K 4000 LM/4FT	UNV	SURFACE	'LINEAR LBX'. LINEAR SURFACE MOUNT LED. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
M	OXYGEN	32-601-24-EM	21.2W LED 90 CRI/3000K 1110 LM	UNV	SURFACE	'PEEPERS'. SCNCE LED MOUNTED WITHIN STAIRWELL. PROVIDE WITH INTEGRAL BATTERY WHERE DESIGNATED BY "EM".
⊗	LITHONIA LIGHTING	EDGR-1-R-EL	3.8W LED	UNV	SURFACE	LED EXIT SIGN WITH 90 MINUTES OF BATTERY BACKUP TIME. 8" RED LETTERS ON CLEAR BACKGROUND.
EXTERIOR						
A	SPECTRUM LIGHTING INC.	WS1611GV -27L35K-EX	18W LED 3500K 2700 LM	UNV	SURFACE	'WAREHOUSE'. EXTERIOR RATED LED MOUNTED OUTSIDE BUILDING.
B	SPRING CITY	ALMYRK-M2-LE040/ EVX/X2-30-CR3 -YSDP-FBR-CU	40W LED 3000K	120-277	POLE	'YORKTOWN'. POLE MOUNTED LED LUMINAIRE ON SITE.

NOTES:

- 1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
- 2.) ALL BALLASTS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
- 3.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
- 4.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BATTERY BACKUP BALLAST. WHERE POSSIBLE THE BALLAST SHALL BE INTERNAL TO THE FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY BALLAST IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BALLAST. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK AND FLORESCENT LAMPS SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
- 5.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING

PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE BUILDING OWNER AND THE ENGINEER THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S DOCUMENTS. FUNCTIONAL TESTING, FOR THE APPLICABLE CONTROL TYPE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. OCCUPANT SENSOR CONTROLS

WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- A. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- B. FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
- C. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE BUILDING OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:

- i. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
- ii. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
- iii. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
- iv. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
- v. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

2. TIME-SWITCH CONTROLS

WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- A. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
- B. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
- C. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
- D. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
- E. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
- F. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
 - i. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
 - ii. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
- G. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
 - i. NONEXEMPT LIGHTING TURNS OFF.
 - ii. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.

3. DAYLIGHT RESPONSIVE CONTROLS

WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:

- A. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
- B. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
- C. THE CALIBRATION ADJUSTMENT EQUIPMENT IS LOCATED FOR READILY ACCESS ONLY BY AUTHORIZED PERSONNEL.

II. DOCUMENTATION REQUIREMENTS

THE DOCUMENTS DESCRIBED IN THIS SECTION SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 60 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

- A. DRAWINGS:
 - i. AS-BUILT CONSTRUCTION DOCUMENTS, SHOWING THE LOCATION AND CATALOG NUMBER OF EACH PIECE OF EQUIPMENT.
- B. MANUALS: AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
 - i. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
 - ii. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SET POINTS.
 - iii. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
 - iv. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED.
 - v. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
- C. REPORT: A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING.
 - i. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
 - ii. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

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1	12/18/2019	Schematic Design

Sheet Title

**ELECTRICAL
SCHEDULES**

Job No. NKGD0214.00	Date 06/25/2021
Scale AS NOTED	Drawn / Checked NL / KS

Sheet Number

E601

PP12 PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - ART RM/KILN	20	1	1	20	REC - KILN	2
3	REC - ART STOR	20	1	1	20	REC - KILN	4
5	REC - ART STOR	20	1	1	20	REC - ART STUDIO	6
7	REC - FLOOR	20	1	1	20	REC - ART STUDIO	8
9	REC - FLOOR	20	1	1	20	REC - ART STUDIO	10
11	SPARE	20	1	1	20	REC - ART STUDIO	12
13	SPARE	20	1	1	20	SPARE	14
15	SPARE	20	1	1	20	SPARE	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP13 PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - BIO ROOM	20	1	1	20	REC - BIOLOGY	2
3	REC - PREP	20	1	1	20	REC - BIOLOGY	4
5	REC - PREP	20	1	1	20	REC - BIOLOGY	6
7	REC - DEMONSTRATION TABLE - BIOLOGY	20	1	1	20	REC - BIOLOGY	8
9	SPARE	20	1	1	20	REC - PREP REF	10
11	SPARE	20	1	1	20GF	REC - PREP DISHWASHER	12
13	SPARE	20	1	1	20	SPARE	14
15	SPARE	20	1	1	20	SPARE	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP14 PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - CHEM RM	20	1	1	20	REC - CHEM RM	2
3	REC - CHEM RM	20	1	1	20	REC - CHEM RM	4
5	REC - CHEM RM	20	1	1	20	REC - CHEM RM	6
7	REC - CHEM RM	20	1	1	20	REC - CHEM RM	8
9	REC - CHEM RM	20	1	1	20	REC - PREP REF	10
11	REC - PREP	20	1	1	20GF	PREP DISHWASHER	12
13	REC - PREP	20	1	1	20	REC - CHEM RM - ICEMAKER	14
15	REC - PREP ICE	20	1	1	20	REC - DEMONSTRATION TABLE - CHEM	16
17	CHEM RM - FUME HOOD	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP11 PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 42KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC - ELEC RM	20	1	1	20	LTG - STAIR	2
3	LTG - CORR/VEST/JANELEC	20	1	1	20	LTG - STAIR	4
5	LTG - TOILETS	20	1	1	20	LTG - CORR/FACULTY	6
7	LTG - EXTERIOR	20	1	1	20	SPARE	8
9	REC - CORR	20	1	1	20	SPARE	10
11	REC - TOILET	20	1	1	20	SPARE	12
13	REC - CORR	20	1	1	20	SPARE	14
15	REC - CORR TV	20	1	1	20	REC - CREATIVE COMMONS	16
17	WATER FOUNTAIN - CORR	20	1	1	20	REC - CREATIVE COMMONS	18
19	CARD READER/ELEC STRIKE	20	1	1	20	REC - JAN	20
21	CARD READER/ELEC STRIKE	20	1	1	20	SITE LIGHTING	22
23	CARD READER/ELEC STRIKE	20	1	1	20	SITE LIGHTING	24
25	CARD READER/ELEC STRIKE	20	1	1	20	SITE LIGHTING	26
27	REC - DATA RM	20	1	1	20	SITE LIGHTING	28
29	CONTROL PANEL	20	1	1	20	ELEV - LTG AND REC	30
31	CONTROL PANEL	20	1	1	20	ELEV - CAB LTG	32
33	CONTROL PANEL	20	1	1	20	ELEV - SUMP PUMP	34
35	CONTROL PANEL	20	1	1	20	HAND DRYER	36
37	BPS	20	1	1	20	HAND DRYER	38
39	BPS	20	1	1	20	HAND DRYER	40
41	SPD	20	1	1	20	SPARE	42
43	LTG - EXTERIOR			1	20	SPARE	44
45	INTERCOM	20	1	1	20	SPARE	46
47	INTERCOM	20	1	1	20	SPARE	48
49	REC - DATA RM	20	1	1	20	SPARE	50
51	SPARE	20	1	1	20	SPARE	52
53	SPARE	20	1	1	20	SPARE	54

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP1M PANEL SCHEDULE							
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 42KAIC			
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1							2
3	AHU-2 - 1ST FLR PREP	30	3	3	30	AHU-1 - 1FT FLR PREP	4
5							6
7				1	20	OUTDOOR RECEPT.	8
9	AHU-3 - 1ST FLR JAN	30	3	1	20	SPARE	10
11				2	15	ACC-1/AC-1	12
13	EH-1	15	1				14
15	EH-1	15	1	1	20	GFI/WP REC.	16
17				1	20	SPARE	18
19	AHU-4 - 1ST FLR KILN	40	3	1	20	SPARE	20
21				1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

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KEY PLAN

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No.	Date	Issue
7	08/12/2021	Issued for Construction
6	06/25/2021	Issued for Permit
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4	02/10/2021	Issued for Review
3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design

Sheet Title

ELECTRICAL SCHEDULES

Job No. NKGD0214.00 Date 06/25/2021

Scale AS NOTED Drawn / Checked NL / KS

Sheet Number

E602

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KEY PLAN

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3	5/14/2020	90% Construction Documents
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1	12/18/2019	Schematic Design

Sheet Title

**ELECTRICAL
SCHEDULES**

Job No. NKGDD0214.00 Date 06/25/2021

Scale AS NOTED Drawn / Checked NL / KS

Sheet Number

E603

PP2M PANEL SCHEDULE									
MAIN RATING: 400A		MAIN C.B.: MLO		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	SPARE	20	1				2		
3				3	25	AHU-7 - 2ND FLR STOR	4		
5	AHU-6 - 2ND FLR STOR	25	3				6		
7				1	20	SPARE	8		
9	SPARE	20	1	1	20	SPARE	10		
11				1	20	SPARE	12		
13	AHU-12 - 2ND FLR MECH	25	3	1	15	EF-1 - ATTIC	14		
15				1	15	TX-1 - ATTIC	16		
17	MOTORIZED DAMPERS	20	1	1	15	EF-2 - ATTIC	18		
19	MOTORIZED DAMPERS	20	1	1	20	SPARE	20		
21	HWCP-1	25	1	1	20	SPARE	22		
23				1	20	SPARE	24		
25	AHU-9 - 2ND FLR FAB LAB	30	3	1	20	SPARE	26		
27				1	20	SPARE	28		
29	SPARE	20	1	1	20	SPARE	30		
31	SPARE	20	1				32		
33				1	20	REC - MECH RM	34		
35	GWP-1&2	30	3				36		
37				3	30	DPT-1 & 2	38		
39							40		
41	ELECTRIC HEATER - ATTIC	20	2	1	20	BMS	42		
43	REC - ATTIC	20	1	1	20	SPARE	44		
45				1	20	SPARE	46		
47	ACC-1/AC-1	15	2	1	20	SPARE	48		
49	GFI/WP REC. ON ROOF.	20	1	1	20	SPARE	50		
51	SPARE	20	1	1	20	SPARE	52		
54	SPARE	20	1	1	20	SPARE	54		

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP21 PANEL SCHEDULE - BASE BID									
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	LIGHTING - OPEN SPACE	20	1	1	20	LIGHTING - MECH RM.	2		
3	RECEPTACLES	20	1				4		
5	SPARE	20	1	1	20	SPARE	6		
7	SPARE	20	1	1	20	SPARE	8		
9	SPARE	20	1	1	20	SPARE	10		
11	SPARE	20	1	1	20	SPARE	12		
13	SPARE	20	1	1	20	SPARE	14		
15	SPARE	20	1	1	20	SPARE	16		
17	SPARE	20	1	1	20	SPARE	18		
19	SPARE	20	1	1	20	SPARE	20		
21	SPARE	20	1	1	20	SPARE	22		
23	SPARE	20	1	1	20	SPARE	24		
25	SPARE	20	1	1	20	SPARE	26		
27	SPARE	20	1	1	20	SPARE	28		
29	SPARE	20	1	1	20	SPARE	30		

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP21 PANEL SCHEDULE - ADD ALT									
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	LTG - PROJ RM/STOR/TOILET	20	1	1	20	REC - KILN	2		
3	LTG - CORR/MECH	20	1	1	20	REC - KILN	4		
5	REC - PROJECT ROOM	20	1	1	20	REC - TOILETS	6		
7	PREP - DISHWASHER	20GF	1	1	20	REC - PHOTO/VIDEO	8		
9	REC - PREP	20	1	1	20	REC - CORR	10		
11	REC - STOR	20	1	1	20	LTG - CORR	12		
13	WATER FOUNTAIN - CORR	20	1	1	20	REC - DATA RM	14		
15	CARD READER/ELEC STRIKE	20	1	1	20	HAND DRYER	16		
17	CARD READER/ELEC STRIKE	20	1	1	20	HAND DRYER	18		
19	CARD READER/ELEC STRIKE	20	1	1	20	BPS	20		
21	CARD READER/ELEC STRIKE	20	1	1	20	EXTERIOR LTG	22		
23	CONTROL PANEL	20	1	1	20	REC - DATA RM	24		
25	CONTROL PANEL	20	1	1	20	ELEV. SHAFT LIGHT/GFI REC.	26		
27	CONTROL PANEL	20	1	1	20	REC - PREP - ICE MAKER	28		
29	CONTROL PANEL	20	1	1	20	SPARE	30		
31	REC - PREP - REF	20	1	1	20	SPARE	32		
33	REC - PREP	20	1	1	20	SPARE	34		
35	SPARE	20	1	1	20	SPARE	36		
37	SPARE	20	1	1	20	SPARE	38		
39	SPARE	20	1	1	20	SPARE	40		
41	SPARE	20	1	1	20	SPARE	42		

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP24 PANEL SCHEDULE - ADD ALT									
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	LTG - ENVI SCI	20	1	1	20	REC - ENVI SCIENCE	2		
3	REC - PREP DISHWASHER	20GF	1	1	20	REC - ENVI SCIENCE	4		
5	REC - PREP REF	20	1	1	20	REC - ENVI SCIENCE	6		
7	REC - PREP RM	20	1	1	20	REC - ENVI SCIENCE	8		
9	REC - PREP RM	20	1	1	20	REC - ENVI SCIENCE	10		
11	REC - DEMONSTRATION TABLE - ENV SC	20	1	1	20	SPARE	12		
13	SPARE	20	1	1	20	SPARE	14		
15	SPARE	20	1	1	20	SPARE	16		
17	SPARE	20	1	1	20	SPARE	18		
19	SPARE	20	1	1	20	SPARE	20		
21	SPARE	20	1	1	20	SPARE	22		
23	SPARE	20	1	1	20	SPARE	24		
25	SPARE	20	1	1	20	SPARE	26		
27	SPARE	20	1	1	20	SPARE	28		
29	SPARE	20	1	1	20	SPARE	30		

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP23 PANEL SCHEDULE - ADD ALT									
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	LTG - PHYSICS/ROBOTICS	20	1	1	20	REC - PHYSICS	2		
3	REC - CLG REEL	20	1	1	20	REC - PHYSICS	4		
5	REC - CLG REEL	20	1	1	20	REC - PHYSICS	6		
7	REC - DEMONSTRATION TABLE - CHEM	20	1	1	20	REC - PHYSICS	8		
9	REC - PHYSICS - UC FRIDGE	20	1	1	20	SPARE	10		
11	REC - CLG REEL	20	1	1	20	SPARE	12		
13	REC - CLG REEL	20	1	1	20	SPARE	14		
15	SPARE	20	1	1	20	SPARE	16		
17	SPARE	20	1	1	20	SPARE	18		
19	SPARE	20	1	1	20	SPARE	20		
21	SPARE	20	1	1	20	SPARE	22		
23	SPARE	20	1	1	20	SPARE	24		
25	SPARE	20	1	1	20	SPARE	26		
27	SPARE	20	1	1	20	SPARE	28		
29	SPARE	20	1	1	20	SPARE	30		

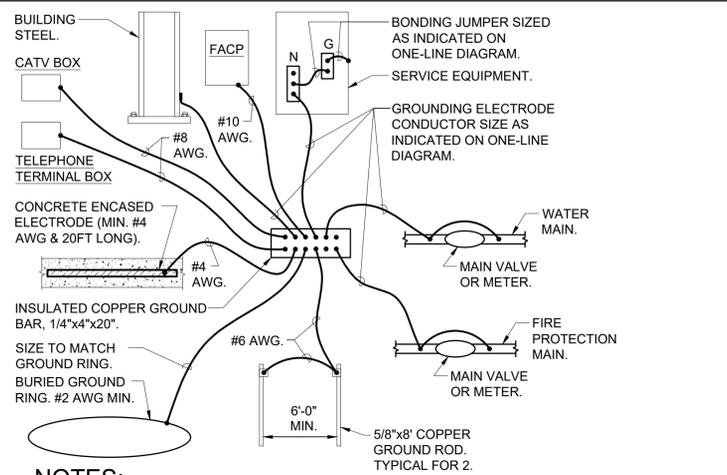
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PP22 PANEL SCHEDULE - ADD ALT									
MAIN RATING: 100A		MAIN C.B.: 100A		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	LTG - ENGR	20	1	1	20	REC - CLG REEL	2		
3	REC - FLR QUAD	20	1	1	20	REC - CLG REEL	4		
5	REC - FLR QUAD	20	1	1	20	REC - CLG REEL	6		
7	REC - ENGR RM WALL	20	1	1	20	REC - CLG REEL	8		
9	REC - ENGR RM WALL	20	1	1	20	REC - FAB LAB	10		
11	REC - ENGR RM WALL	20	1	1	20	REC - FAB LAB	12		
13	SPARE	20	1	1	20	REC - FAB LAB	14		
15	SPARE	20	1	1	20	REC - FAB LAB	16		
17	SPARE	20	1	1	20	REC - FAB LAB	18		
19	SPARE	20	1	1	20	REC - FAB LAB	20		
21	SPARE	20	1	1	20	REC - FAB LAB	22		
23	SPARE	20	1	1	20	SPARE	24		
25	SPARE	20	1	1	20	SPARE	26		
27	SPARE	20	1	1	20	SPARE	28		
29	SPARE	20	1	1	20	SPARE	30		

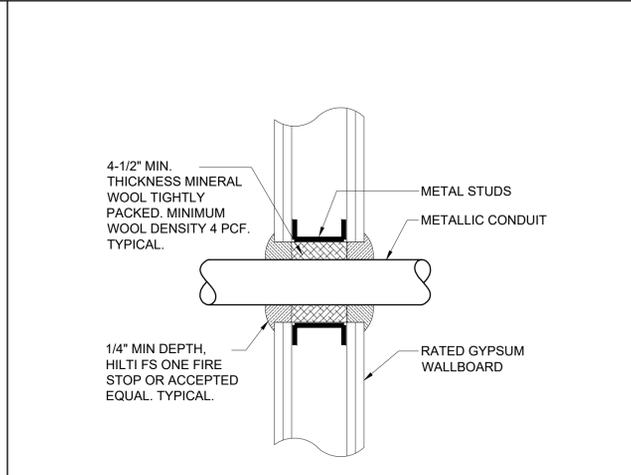
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
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NOTES:

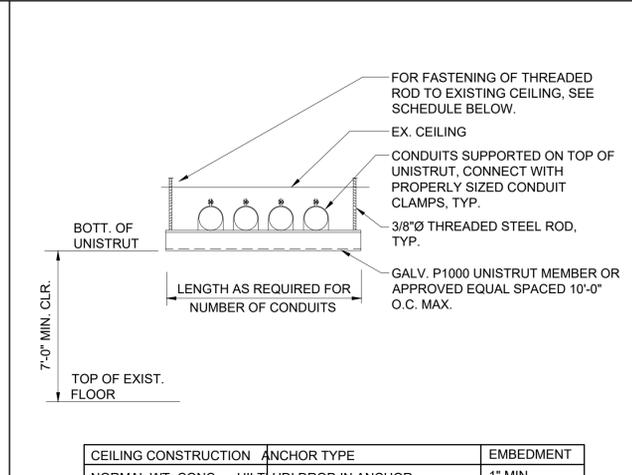


NOTES:
 1.) CONNECTION TO WATER MAIN AND FIRE PROTECTION MAIN SHALL BE A MAXIMUM OF 5'-0" FROM WHERE THE PIPE ENTERS THE BUILDING AND BE PRIOR TO ANY METER, VALVE JOINT, ETC.
 2.) ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING COMPRESSION LUGS SIZED TO ACCOMMODATE THE CONDUCTORS.

12 SERVICE GROUNDING DETAIL
 SCALE: NONE

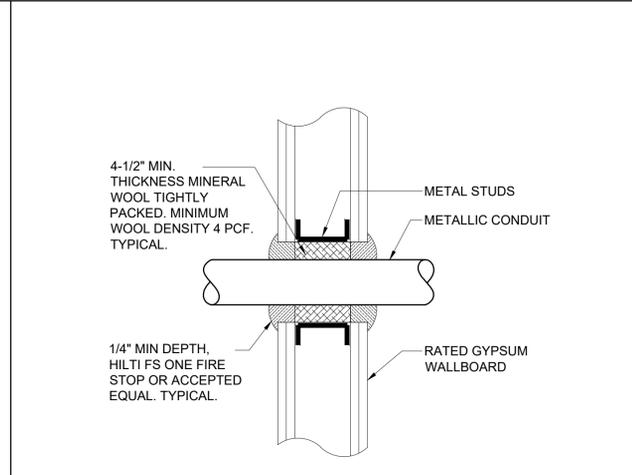


9 TYPICAL CONDUIT GYPSUM WALL PENETRATION DETAIL
 SCALE: NONE

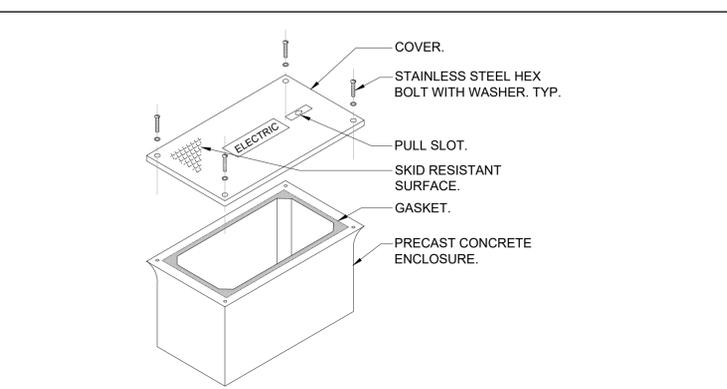


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

6 TRAPEZE SUPPORT DETAIL
 SCALE: NONE

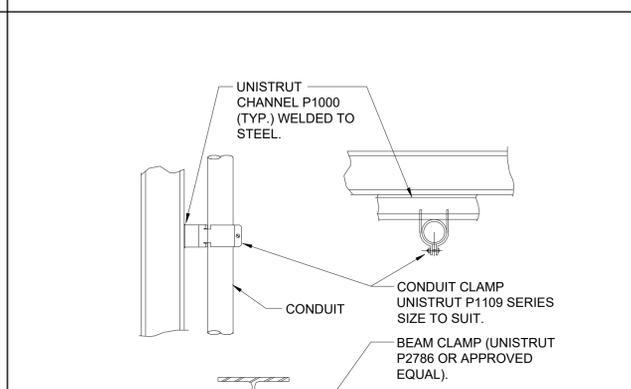


3 TYPICAL CONDUIT GYPSUM WALL PENETRATION DETAIL
 SCALE: NONE

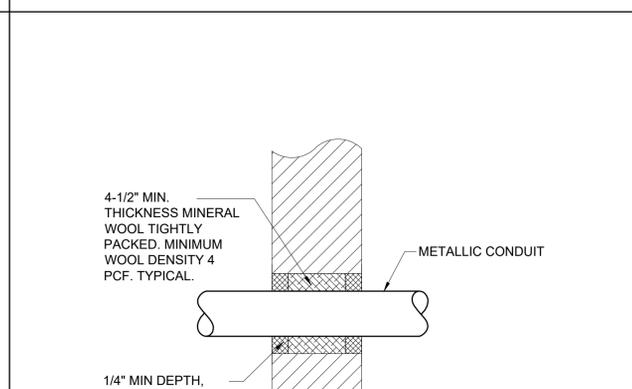


NOTES:
 1.) HAND HOLE SHALL BE TIER 15, 17"L x 30"W x 30"H WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC AS MANUFACTURED BY QUAZITE, CATALOG NUMBER B14173030A WITH #C12173002A*** COVER OR EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 2.) PROVIDE 6" OF GRAVEL BELOW BOX.
 3.) COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).

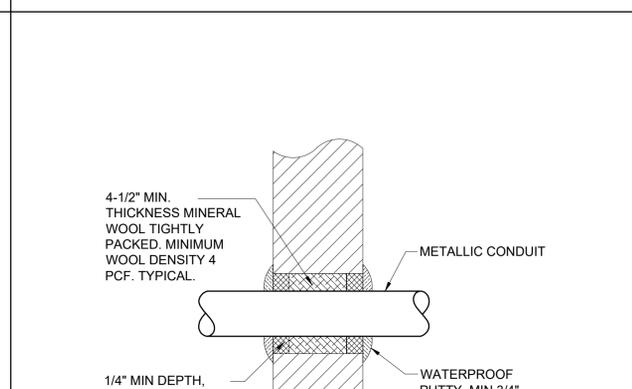
11 HAND HOLE DETAIL
 SCALE: NONE



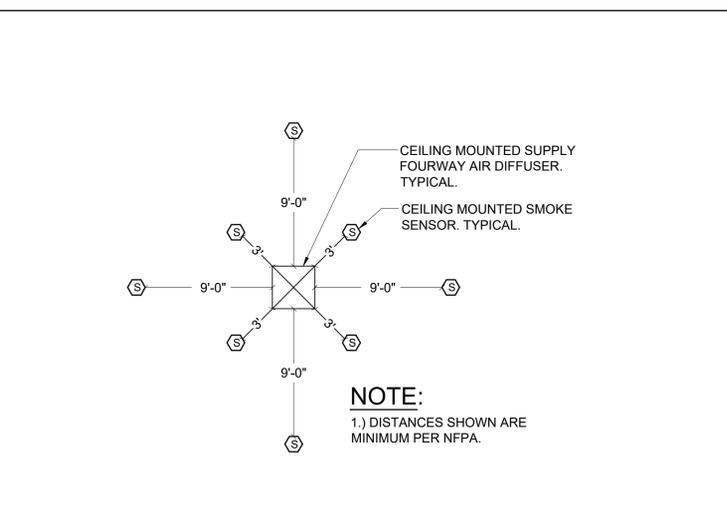
8 CONDUIT SUPPORTED FROM STRUCTURAL STEEL
 SCALE: NONE



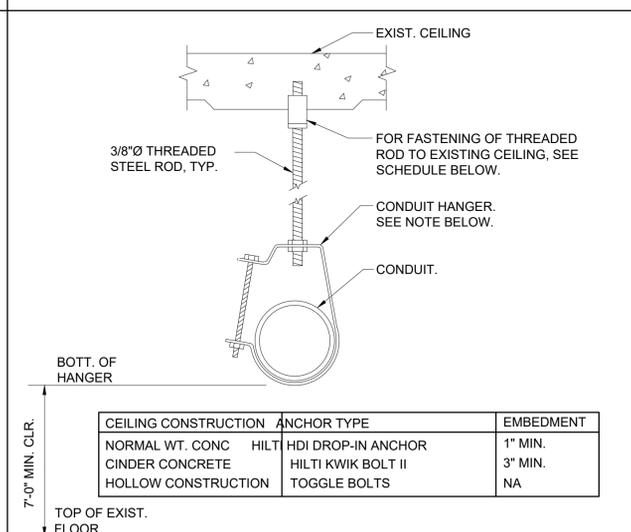
5 TYPICAL CONDUIT INTERIOR MASONRY WALL PENETRATION DETAIL
 SCALE: NONE



2 TYPICAL ABOVE GRADE CONDUIT EXTERIOR MASONRY WALL PENETRATION DETAIL
 SCALE: NONE

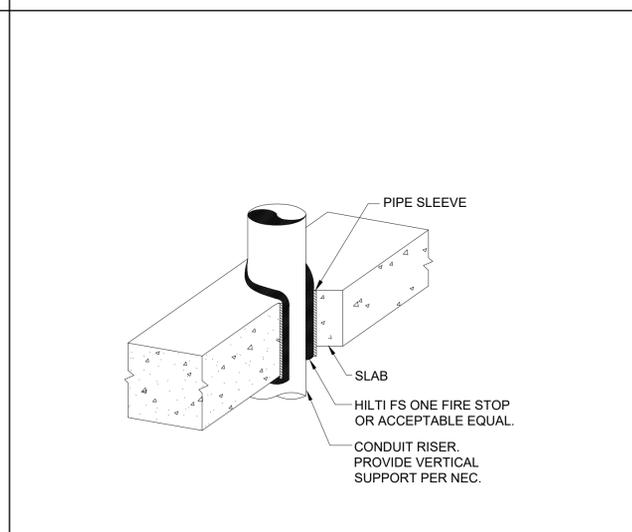


10 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
 SCALE: NONE

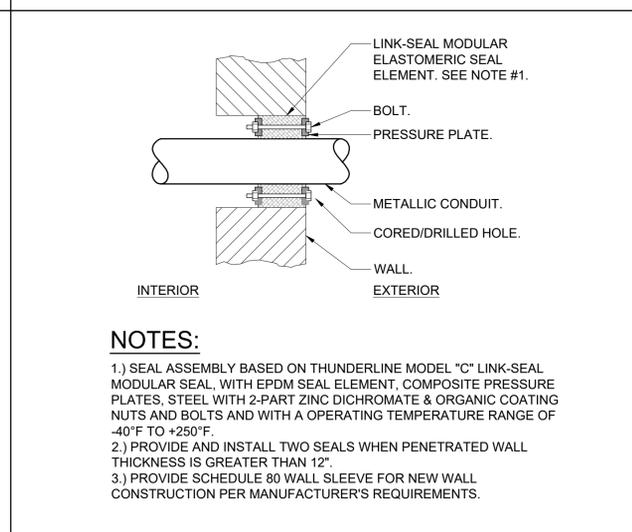


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

7 SINGLE CONDUIT HANGER DETAIL
 SCALE: NONE



4 VERTICAL CONDUIT PENETRATION DETAIL
 SCALE: NONE



1 TYPICAL BELOW GRADE CONDUIT EXTERIOR MASONRY WALL PENETRATION DETAIL
 SCALE: NONE

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3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design

Professional Seal

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1	12/18/2019	Schematic Design

ELECTRICAL DETAILS

Job No. NKGD0214.00 Date 06/25/2021
 Scale AS NOTED Drawn / Checked NL / KS

Sheet Number **E701**

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KEY PLAN

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Professional Seal

No.	Date	Issue
7	08/12/2021	Issued for Construction
6	06/25/2021	Issued for Permit
5	02/24/2021	Issued for Bid
4	02/10/2021	Issued for Review
3	5/14/2020	90% Construction Documents
2	2/21/2020	Design Development
1	12/18/2019	Schematic Design

Sheet Title

ELECTRICAL DETAILS

Job No.	NKGD0214.00	Date	06/25/2021
Scale	AS NOTED	Drawn / Checked	NL / KS

Sheet Number

E703

