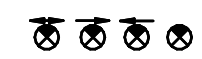
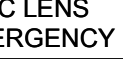
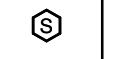
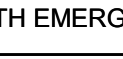
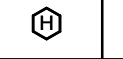
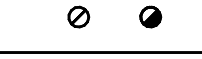
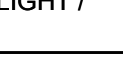
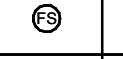
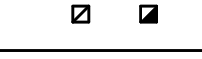
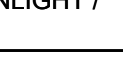
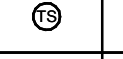
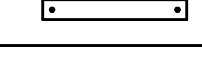
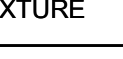
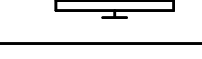
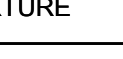
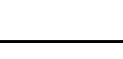
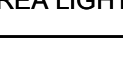
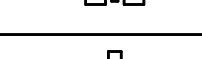
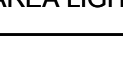
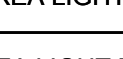
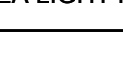
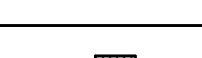
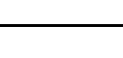
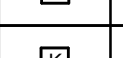


ELECTRICAL SYMBOL LEGEND (SYMBOLS ARE STANDARD AND MAY NOT ALL BE USED FOR EVERY PROJECT)					
	SINGLE FACE EXIT SIGN	S	SINGLE POLE SWITCH		MOTOR
	DOUBLE FACE EXIT SIGN	S ₂	THREE WAY SWITCH		MOTOR OPERATED DAMPER
	EMERGENCY BATTERY UNIT	S _{LD}	LOW VOLTAGE SWITCH WITH DIMMING. SENSOR SWITCH MODEL #: SP0DMA-D-SA-WH		FIRE ALARM CONTROL PANEL
	SINGLE / DUAL HEAD REMOTE LAMP	S _{LD2}	LOW VOLTAGE MULTI-WAY WITH DIMMING. SENSOR SWITCH MODEL #: SP0DMA-D-SA-3X-WH		FIRE ALARM ANNUNCIATOR PANEL
	2'X2' RECESSED PRISMATIC LENS LIGHT FIXTURE / WITH EMERGENCY		WALL MOUNTED PIR TECHNOLOGY OCCUPANCY SENSOR. SENSOR SWITCH MODEL #: HW-13		SMOKE DETECTOR
	STRIP LIGHT FIXTURE / WITH EMERGENCY		WALL MOUNTED DUAL TECH. OCC. SENSOR. SENSOR SWITCH MODEL #: WSXA-PDT-SA-WH		HEAT DETECTOR
	ROUND RECESSED DOWNLIGHT / WITH EMERGENCY		CEILING MOUNTED DUAL. SENSOR SWITCH MODEL #: CM-PDT-9		CONNECTION TO WATER FLOW SWITCH
	SQUARE RECESSED DOWNLIGHT / WITH EMERGENCY		JUNCTION BOX WITH LOW VOLTAGE POWER SUPPLY FOR OCCUPANCY SENSORS		CONNECTION TO TAMPER SWITCH
	LINEAR PENDANT LIGHT FIXTURE		PHOTOCELL		MANUAL PULL STATION
	WALL MOUNTED LIGHT FIXTURE		LIGHTING CONTROL PANEL		GROUND CONNECTION
	EXTERIOR WALL PACK		TIME CLOCK		GROUND ROD
	SINGLE POLE MOUNTED AREA LIGHT FIXTURE		CONTACTOR - SIZE & TYPE AS NOTED		GROUND TEST WELL
	DOUBLE POLE MOUNTED AREA LIGHT FIXTURE		TRANSFORMER		
	TRIPLE POLE MOUNTED AREA LIGHT FIXTURE		JUNCTION BOX		
	QUAD POLE MOUNTED AREA LIGHT FIXTURE		NON-FUSED DISCONNECT SWITCH		ACCESS CONTROL PANEL (PROVIDED BY OTHERS) (BOX AND CONDUIT BY E.C.)
	PANEL - 120/208V		FUSED DISCONNECT SWITCH		ELECTRIC STRIKE (PROVIDED BY OTHERS) (BOX AND CONDUIT BY E.C.)
	PANEL - 277/480V				ACCESS CONTROL SYSTEM KEY PAD

LIGHTING FIXTURE SCHEDULE					
MARK	MANUFACTURER	MODEL NO.	PES VOLTAGE	PES WATTAGE	REMARKS
A	ETHERIUM	ETH-L54-40-32-24W-3CCT	277 V	24 W	4' LED STRIP LIGHT - 4000LM-35K - 277V
A2	ETHERIUM	ETH-L54-40-32-24W-3CCT	120 V	24 W	4' LED STRIP LIGHT - 4000LM-35K - 120V
B	HONYA LIGHTING	HY-2FT-L550-2W3CCT-PIR MOTION SENSOR	277 V	18 W	2' LED STRIP LIGHT W/ OCCUPANCY SENSOR - 2000LM-35K
C2	SATCO / NUVO	NUVO 65-57R1	277 V	38.4 W	2 X 4 LED RECESSED FLAT PANEL LIGHT FIXTURE
C3	SATCO / NUVO	NUVO 65-57R1	277 V	39 W	2 X 2' X LED RECESSED FLAT PANEL LIGHT FIXTURE
D	DURAGUARD	CP10Q-F-1X30-U-3KW	277 V	30 W	10" SQUARE FLUSH MOUNTED LED LIGHT FIXTURE WITH WHITE FROSTED POLYCARBONATE LENS
E	SATCO / NUVO	65-62AR1	277 V	25 W	12" ROUND SURFACE MOUNTED LED LIGHT FIXTURE WITH WHITE OPAL POLYCARBONATE LENS
F	LUXRITE	LR24253	277 V	41.6 W	2 X 4 LED RECESSED FLAT PANEL LIGHT FIXTURE
R1	BEST LIGHTING	MRHLED-2-B-PWP-3.6V	9.6 V	3 W	WEATHERPROOF TWIN REMOTE LED HEADS
V	ETHERIUM	ETH-TT2VT4-40/50/60W-3CCT	120 V	60 W	48"W X 8"H WALL MOUNTED LED VAPORTIGHT FIXTURE WITH FROSTED POLYCARBONATE LENS
W1	BASELITE / SATCO	AZ-9WLED-PR4-CG2	277 V	9 W	SURFACE WALL MOUNTED JELLY JAR TYPE LIGHT FIXTURE WITH GUARD AND 9 WATT LED LAMP
W2	HYDREL	LOWELL-2RLED30-30K-277V-4FL-CNA-L3-DBL-C2	277 V	24 W	WALL MOUNTED 2'x4' X 191" LED UP/DOWN LIGHT FIXTURE
W3	WESTGATE	WAX-90-90W-277V-12600LM-3000K	277 V	90 W	WALL MOUNTED LED LIGHT FIXTURE
X1	SATCO / NUVO	67-101	277 V	2.5 W	THERMOPLASTIC SINGLE FACE LED EXIT SIGN FIXTURE
X2	SATCO / NUVO	67-101	277 V	2.5 W	THERMOPLASTIC DOUBLE FACED LED EXIT SIGN FIXTURE
X3	SATCO / NUVO	67-122	277 V	3.5 W	THERMOPLASTIC SINGLE FACE LED SIGN FIXTURE WITH REMOTE CAPACITY
X4	SATCO / NUVO	67-122	277 V	3.5 W	THERMOPLASTIC DUAL FACE LED SIGN FIXTURE WITH REMOTE CAPACITY
X5	HPEM	HPEMW-SDT	277 V	5 W	EMERGENCY BATTERY UNIT WITH 2 LED HEADS
X6	HPEM	HPEMW-SDT	277 V	5 W	EMERGENCY BATTERY UNIT WITH 2 LED HEADS
X7	SATCO / NUVO	67-139	277 V	1 W	EMERGENCY BATTERY UNIT WITH 2 LED HEADS
X8	SATCO / NUVO	67-122	277 V	3.5 W	THERMOPLASTIC SINGLE FACE LED EXIT SIGN FIXTURE WITH 2 LED HEADS
1. COORDINATE MOUNTING HEIGHTS WITH 'A' SERIES DRAWINGS PRIOR TO INSTALLATION.					
2. VERIFY ALL CEILING TYPES SHOWN ON THE 'A' SERIES DRAWINGS AND PROVIDE ALL NECESSARY MOUNTING ACCESSORIES.					
3. EXIT SIGNS SHALL BE CEILING, WALL, OR END MOUNTED. FIELD COORDINATE FINAL MOUNTING REQUIREMENTS.					
4. EXIT SIGNS SHALL HAVE DIRECTIONAL CHEVRONS AS REQUIRED. FIELD COORDINATE FINAL CHEVRON CONFIGURATION.					
5. PROVIDE FIXTURES WITH DLC LISTING OR ENERGY STAR.					
6. PROVIDE APPROPRIATE CABLE/CORD LENGTH FOR ALL PENDANT MOUNTED FIXTURES. REFER TO 'A' SERIES FLOOR PLANS, SECTIONS, AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.					
7. WHEN MOUNTING HEIGHT OF ANY LIGHT FIXTURES IS NOT CLEARLY STATED OR SHOWN ON DRAWINGS, CONTACT ENGINEER FOR APPROPRIATE LENGTH PRIOR TO INSTALLATION.					
PRIOR TO ANY LIGHT FIXTURE SUBSTITUTIONS, A PROFESSIONALLY PREPARED, POINT BY POINT PHOTOMETRIC CALCULATION IS REQUIRED FOR ENGINEER'S APPROVAL.					

LIGHT FIXTURE SCHEDULE NOTES:

1. FIXTURES SHALL BE MOUNTED ON UNISTRUT TO KEEP FIXTURES IN A STRAIGHT LINE THROUGHOUT STORAGE UNIT COORIDORS.

ABBREVIATIONS

A. AMP	AMPERE
A/C	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APP	AREA PROTECTION PANEL
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
C	CONDUIT
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DIA	DIAMETER
DM	DIGITAL METER
DWG	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EFC	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION
EP	EXPLOSION PROOF
EX	EXISTING
ETR	EXISTING TO REMAIN
EXR	EXISTING DEVICE TO BE RELOCATED
FC	FAN COIL UNIT
FLA	FULL LOAD AMPERES
G. GND, GRD	GROUND
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
HD	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATT
M.C.	MECHANICAL CONTRACTOR
MTD	MOUNTED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
OHF	OVERHEAD FIBER
P.C.	PLUMBING CONTRACTOR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UH	UNIT HEATER
UF	UNDERGROUND FIBER
V	VOLTS
WG	WIRE GUARD
WP	WEATHERPROOF
THE SYMBOLS AND ABBREVIATIONS SHOWN ARE STANDARDS AND DO NOT NECESSARILY APPEAR ON THE DRAWINGS.	

SHEET LIST - ELECTRICAL

DISCIPLINE NAME	SHEET NUMBER	SHEET NAME	CURRENT REVISION
ELECTRICAL			
ELECTRICAL	E001	ABBREVIATIONS, NOTES & SCHEDULES	CEILING AND GARAGE CHANGES
ELECTRICAL	E002	ELECTRICAL SPECIFICATIONS	
ELECTRICAL	E003	PANEL SCHEDULES	CEILING AND GARAGE CHANGES
ELECTRICAL	E004	ONE-LINE DIAGRAM	
ELECTRICAL	E101	FIRST FLOOR PLAN - LIGHTING	CEILING AND GARAGE CHANGES
ELECTRICAL	E102	SECOND FLOOR PLAN - LIGHTING	CEILING AND GARAGE CHANGES
ELECTRICAL	E103	THIRD FLOOR PLAN - LIGHTING	CEILING AND GARAGE CHANGES
ELECTRICAL	E104	FOURTH FLOOR PLAN - LIGHTING	CEILING AND GARAGE CHANGES
ELECTRICAL	E201	FIRST FLOOR PLAN - POWER	CEILING AND GARAGE CHANGES
ELECTRICAL	E202	SECOND FLOOR PLAN - POWER	CEILING AND GARAGE CHANGES
ELECTRICAL	E203	THIRD FLOOR PLAN - POWER	
ELECTRICAL	E204	FOURTH FLOOR PLAN - POWER	
ELECTRICAL	E205	ROOF PLAN - POWER	
ELECTRICAL	E301	FIRST FLOOR PLAN - SYSTEMS	CEILING AND GARAGE CHANGES
ELECTRICAL	E302	SECOND FLOOR PLAN - SYSTEMS	CEILING AND GARAGE CHANGES
ELECTRICAL	E303	THIRD FLOOR PLAN - SYSTEMS	
ELECTRICAL	E304	FOURTH FLOOR PLAN - SYSTEMS	
ELECTRICAL	E401	ENLARGED FLOOR PLANS	CEILING AND GARAGE CHANGES
ELECTRICAL	E402	ENLARGED FLOOR PLANS	CEILING AND GARAGE CHANGES
ELECTRICAL	E501	SITE PLAN	

MECHANICAL EQUIPMENT SCHEDULE

TAG	HP	WATTAGE	FLA	MCA	PES MOCP	VOLTAGE	PHASE	DISCONNECT BY	DESCRIPTION
AHU-1-1		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-1-2		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-1-3		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-1-4		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-2-1		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-2-2		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-2-3		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-2-4		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-2-5		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-3-1		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-3-2		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-3-3		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-3-4		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-4-1		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-4-2		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-4-3		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
AHU-4-4		0	0 A	0 A		208 V	1	EC	POWERED BY OUTDOOR UNIT
CP-1	1/20	114	1 A	1.2 A	15	120 V	1	EC	RECIRCULATING PUMP
CP-2	1/20	114	1 A	1.2 A	15	120 V	1	EC	RECIRCULATING PUMP
CP-3	1/20	114	1 A	1.2 A	15	120 V	1	EC	RECIRCULATING PUMP
CP-4	1/20	114	1 A	1.2 A	15	120 V	1	EC	RECIRCULATING PUMP
CU-1-1		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-1-2		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-1-3		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-1-4		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-2-1		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-2-2		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-2-3		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-2-4		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-2-5		2,662	13 A	16 A	25	208 V	1	EC	HEAT PUMP
CU-3-1		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-3-2		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-3-3		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-3-4		5,325	26 A	32 A	35	208 V	1	EC	HEAT PUMP
CU-4-1		5,325	26 A	32 A	40	208 V	1	EC	HEAT PUMP
CU-4-2		5,325	26 A	32 A	40	208 V	1	EC	HEAT PUMP
CU-4-3		5,325	26 A	32 A	40	208 V	1	EC	HEAT PUMP
CU-4-4		5,325	26 A	32 A	40	208 V	1	EC	HEAT PUMP
DH-1-1		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-1-2		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-1-3		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-1-4		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-2-1		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-2-2		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-3-1		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-3-2		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-3-3		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-4-1		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-4-2		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
DH-4-3		1,745	6 A	7.9 A	15	277 V	1	EC	DEHUMIDIFIER
ECU-1		3,178	15 A	19.1 A	30	208 V	1	EC	HEAT PUMP
ECU-2		3,178	15 A	19.1 A	30	208 V	1	EC	HEAT PUMP
EDH-1-1		10,000	12 A	15 A		480 V	3	MFR	ELECTRIC DUCT HEATER
EDH-1-2		10,000	12 A	15 A		480 V	3	MFR	ELECTRIC DUCT HEATER
EDH-1-3		10,000	12 A	15 A		480 V	3	MFR	ELECTRIC DUCT HEATER
EDH-1-4		10,000	12 A	15 A		480 V	3	MFR	ELECTRIC DUCT HEATER
EDH-4-1		10,000	12 A	15 A		480 V	3	MFR	ELECTRIC DUCT HEATER
EDH-4-2		10,000	12 A	15 A		480 V	3	MFR	ELECTRIC DUCT HEATER
EDH-4-3		10,000	12 A	15 A		480 V	3	MFR	ELECTRIC DUCT HEATER
EDH-4-4		10,000	12 A	15 A		480 V	3	MFR	ELECTRIC DUCT HEATER
EF-1	(53)	0	0 A	0 A		115 V	1	MFR	EXHAUST FAN
EF-2	(51)	53	0 A	0.6 A		120 V	1	MFR	EXHAUST FAN
EF-3	(325)	324	3 A	3.4 A		120 V	1	MFR	EXHAUST FAN
EH-1		3,000	11 A	13.5 A	20	277 V	1	MFR	ELECTRICAL WALL HEATER
EH-2		2,000	7 A	9 A	20	277 V	1	MFR	ELECTRICAL WALL HEATER
EH-3		3,000	11 A	13.5 A	20	277 V	1	MFR	ELECTRICAL WALL HEATER
F-A	1/3	691	6 A	7.2 A	20	120 V	1	MFR	INDUSTRIAL FAN
RP-1	1/20	114	1 A	1.2 A	15	120 V	1	EC	RECIRCULATING PUMP
SP-1		1,320	11 A	13.8 A	20	120 V	1	EC	SUMP PUMP
SP-1		1,320	11 A	13.8 A	20	120 V	1	EC	SUMP PUMP
SWH-1		4,493	22 A	27 A	30	208 V	1	EC	STORAGE WATER HEATER
TF-1	(325)	324	3 A	3.4 A		120 V	1	MFR	TRANSFER FAN
TF-2	(325)	324	3 A	3.4 A		120 V	1	MFR	TRANSFER FAN
UH-1		10,000	12 A	15.5 A	20	480 V	3	MFR	SUSPENDED UNIT HEATER
UH-2		20,000	25 A	30.6 A	30	480 V	3	MFR	SUSPENDED UNIT HEATER

CONTRACTOR SHALL LABOR AND MATERIALS REQUIRED TO COMPLETE ALL WORK IN BUILDING INCLUDING LIGHTING, POWER, SYSTEMS AND SERVICES.

- ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND EXAMINE THE SAME TO BE SATISFIED AS TO THE EXTENT OF THE WORK AND CONDITIONS UNDER WHICH THEY ARE OBLIGATED TO PERFORM THE WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED BY FAILURE TO DETERMINE ACTUAL CONDITIONS.

- EC SHALL FURNISH TOOLS, LABOR AND MATERIAL REQUIRED TO COMPLETE THE WORK DESCRIBED AND OUTLINED IN THE ELECTRICAL CONTRACT, INCLUDING BUT NOT LIMITED TO THE CONSTRUCTION AND INSTALLATION OF ELECTRICAL POWER AND LIGHTING SYSTEMS. BEFORE ORDERING ANY EQUIPMENT OR MATERIALS, VERIFY ALL CRITICAL DIMENSIONS, ELECTRICAL RATINGS, ENVIRONMENTAL CONSIDERATIONS AND LOCATION AS PERTAINING TO THE USE AND INSTALLATION OF EQUIPMENT OR CONSTRUCTION OF THE PROJECT.

- EQUIPMENT, FIXTURES, DEVICES, MATERIAL SHEETS, CATALOG OR MANUFACTURER'S REFERENCE USED IN DESCRIBING AN ITEM IS MERELY DESCRIPTIVE AND NOT RESTRICTIVE UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR SHALL CLEARLY IDENTIFY THE PROPOSED PRODUCT, MODEL, TYPE AND DISCRETION AS TO THE ACCEPTANCE AND APPLICATION.

- EC SHALL SUBMIT TO OWNER FOR REVIEW SUBMITTALS ON LIGHT FIXTURES, LIGHTING CONTROLS, PANELBOARDS, DISCONNECT SWITCHES, FIRE ALARM SYSTEM, VOICEDATA WIRING SYSTEM, CCTV SYSTEM, AND ACCESS CONTROL SYSTEM.

- EC SHALL TEST ALL ELECTRICAL CONDUCTORS TO INSURE PROPER INSTALLATION AND CONTINUITY. TESTING SHALL BE PERFORMED BY A QUALIFIED PROFESSIONAL WORKING WITHIN THE FIELD USING UP TO DATE TESTING EQUIPMENT. TESTING SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

- ALL PULL BOXES, JUNCTION BOXES AND OUTLET BOXES SHALL BE PROVIDED WITH A COVER PLATE. ALL EMPTY CONDUITS SHALL HAVE PULL STRINGS. BOXES MUST BE RATED FOR THE WEIGHT THEY ARE TO SUPPORT.

- NEW POWER SERVICE IS TO BE INSTALLED. COORDINATE NEW TELEPHONE/DATA AND CATV SERVICES AS REQUIRED. COORDINATE SERVICE REQUIREMENTS WITH UTILITIES. OWNER WILL PAY EACH UTILITY'S SERVICE COSTS DIRECTLY TO THE UTILITY. THIS CONTRACTOR IS RESPONSIBLE FOR ALL TRENCING, BACKFILLING AND RESTORATION TO MATCH ADJACENT AREAS.

- ALL POWER WIRING FOR HVAC AND PLUMBING EQUIPMENT, INCLUDING POWER WIRING THROUGH CONTROL DEVICES SUCH AS MOTOR STARTERS, LINE VOLTAGE SWITCHES AND THERMOSTATS, DISCONNECT SWITCHES, ETC. SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS NOTED OTHERWISE. ALL CONTROL DEVICES AND CONTROL WIRING FOR HVAC AND PLUMBING EQUIPMENT WILL BE FURNISHED AND INSTALLED UNDER HVAC AND PLUMBING PORTION OF CONTRACT. FINAL CONNECTION OF ALL POWER WIRING SHALL BE PERFORMED UNDER PORTION OF CONTRACT FURNISHING EQUIPMENT. FINAL CONNECTION OF ALL CONTROL WIRING WILL BE PERFORMED UNDER PORTION OF CONTRACT FURNISHING EQUIPMENT. FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH FLEX CONDUCTORS.

- EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT SHALL BE DETERMINED IN FIELD. COORDINATE WITH HVAC AND PLUMBING CONTRACTOR BEFORE RUOG WIRING IS STARTED.

- ALL RECEPTACLES SHALL BE MOUNTED 20" AFF TO TOP OF BOX UNLESS OTHERWISE NOTED.

- COUNTER MOUNTED RECEPTACLES SHALL BE MOUNTED AT HEIGHT AS REQUIRED.

- LIGHTING CONTROL SWITCHES SHALL BE MOUNTED 44" AFF TO TOP OF BOX UNLESS OTHERWISE NOTED.

- LED DRIVERS SHALL BE RATED AT 277 VOLT, UNLESS OTHER WISE NOTED. LIGHT FIXTURES SHALL COMPLY WITH NEC ARTICLE 410.130.

- ALL BRANCH WIRING SHALL BE TYPE "MC" WHERE ALLOWED BY CODE OR SHALL BE TYPE THHN/THWN IN E.M.T. UNLESS NOTED OTHERWISE. ALL WIRING TO BE RUN THRU STORAGE UNITS AND BELOW 10 FEET A.F.F. SHALL BE IN EMT CONDUIT. PANEL FEEDERS SHALL BE IN EMT CONDUIT WITH COMPRESSIONS FITTINGS. WIRE SHALL NOT BE SMALLER THAN #12. ALL WIRING UNDERGROUND AND IN WET LOCATIONS SHALL BE XHHW. ALL CIRCUITS SHALL HAVE SEPARATE GROUND WIRE. ALL WIRING IN THIS CONTRACT SHALL BE IN CONDUIT IN PLENUMS UNLESS NOTED OTHERWISE. ANY CABLES INSTALLED IN PLENUMS BY OWNER SHALL BE PLENUM RATED.

- ALL WIRING SHALL BE COPPER, ALUMINUM WILL NOT BE ACCEPTABLE. MINIMUM SIZE E.M.T. CONDUIT SHALL BE 1/2". POWER WIRING #12 THROUGH #1 SHALL BE RATED AT 60 DEGREES C. ALL OTHER WIRING SHALL BE RATED AT 75 DEGREES C.

- ANY CONDUIT SHOWN TO BE INSTALLED WITHAN AN EXTERIOR WALL MUST BE INSTALLED ON THE INTERIOR SIDE OF THE WALL INSLATION.

- ALL DISCONNECT SWITCHES SHALL BE SIZE AND NEMA ENCLOSURE AS STATED ON DRAWINGS. SWITCHES SHALL BE QUICK MAKE, QUICK BREAK, GENERAL OR HEAVY DUTY, AS REQUIRED. FUSES SHALL BE BUSSMAN TYPE RK-1 CURRENT LIMITING, TIME DELAY-DUTY ELEMENT. PROVIDE ONE COMPLETE SET OF SPARE FUSES FOR EACH SIZE USED. DISCONNECTS SHALL BE MANUFACTURED BY SQUARE D, CUTLER HAMMER OR SIEMENS.

- MANUAL STARTER SWITCHES SHALL BE RATED FOR 1 HP AT 115-230V AC SINGLE PHASE AND SHALL BE MANUFACTURED BY SQUARE D, CUTLER HAMMER OR SIEMENS.

- DRY TYPE TRANSFORMERS SHALL BE ENERGY EFFICIENT NEMA STANDARD TP-1 RATED. SQUARE-D TYPE EE OR EQUAL.

- ALL PANELBOARDS SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. THE SYSTEM IS BASED ON SQUARE D; HOWEVER, COMPARABLE EQUIPMENT BY CUTLER HAMMER OR SIEMENS WILL BE ACCEPTABLE. PANELBOARDS OVER 42 CIRCUITS SHALL BE DOUBLE PANELS. TANDEN AND HALF SPACE CIRCUIT BREAKERS SHALL NOT BE USED. PANELBOARDS SHALL HAVE HINGED LOCKABLE COVER. PROVIDE TYPE SQUARED PANELBOARD SCHEDULE. INSIDE DOOR OF PANELBOARD WITH NUMBERS CORRESPONDING WITH BREAKER NUMBERS. PROVIDE TYPE SQUARED OR SUPPLY LABEL FOR EACH SWITCHBOARD, SWITCHGEAR AND PANELBOARD INDICATING EACH DEVICE OR EQUIPMENT. WHERE THE POWER ORIGINATED. PANELBOARD SCHEDULES AND SOURCE SUPPLY LABELS, CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION SHALL BE COMPLETED AS REQUIRED BY NEC ARTICLE 408.4. SERIES RATED PANELBOARD ASSEMBLIES WILL BE APPROVED MAIN PANEL TO BE MARKED WITH AIC RATING.

- DUPLEX INDOOR RECEPTACLES SHALL BE 20A-120V/UL LISTED, COMMERCIAL SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL #C8RS20 OR SIMILAR BY LEVITON, A&H, P&S, BRYANT OR EAGLE. EACH RECEPTACLE SHALL BE EQUIPPED WITH A PLASTIC WALL PLATE. COLOR TO BE SELECTED BY THE ARCHITECT AND TO MATCH DECIVE.

- DUPLEX INDOOR AND OUTDOOR G.F.I. RECEPTACLES SHALL BE 20A-120V/UL LISTED. RECEPTACLES SHALL BE USED AS END-OF-LINE TYPE. FEED THRU TYPE WILL NOT BE ACCEPTABLE. EACH OUTDOOR RECEPTACLE SHALL BE EQUIPPED WITH A WEATHER PROOF WHILE-IN-USE COVER. OUTLET BOX HOOD SHALL BE EXTRA DUTY. INTERIOR RECEPTACLES SHALL BE HUBBELL #GFRST20 AND EXTERIOR RECEPTACLES SHALL BE HUBBELL #GFTWST20 WEATHER RESISTANT OR SIMILAR BY LEVITON, A&H, P&S, BRYANT OR EAGLE. EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT RATED, "WR". OUTLET BOX HOOD SHALL BE LISTED AS "EXTRA DUTY". GFCI PROTECTED RECEPTACLES SHALL BE READILY ACCESSIBLE TO COMPLY WITH NEC ARTICLE 210.8. IF NOT READILY ACCESSIBLE GFI BREAKERS SHALL BE USED.

- LIGHTING CONTROL SWITCHES SHALL BE 20A-120V/UL LISTED. COMMERCIAL SPECIFICATION GRADE AS MANUFACTURED BY HUBBELL #C8B120 SERIES OR SIMILAR BY LEVITON, A&H, P&S, BRYANT OR EAGLE. EACH SWITCH SHALL BE EQUIPPED WITH A PLASTIC WALL PLATE. COLOR TO BE SELECTED BY THE ARCHITECT AND TO MATCH DECIVE.

- OCCUPANCY SENSORS SHALL BE AS REQUIRED FOR THE INTENDED AREAS SHOWN ON THE DRAWINGS BY SENSOR SWITCH OR WATT SIMILAR BY WATT STOPPER COMPANY OR LEVITON.

- PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE AND THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE UNLESS NOTED OTHERWISE.

- BONDING JUMPERS, WITH APPROVED GROUND FITTINGS, SHALL BE INSTALLED AT ALL RACEWAYS. EQUIPMENT ENCLOSURES, PULL BOXES ETC., TO MAINTAIN GROUND CONTINUITY, WHERE REQUIRED BY CODE. PROVIDE INTERSYSTEM BONDING PER NEC.

- COORDINATE WORK WITH OTHER TRADES AND CONDITIONS TO AVOID INTERFERENCE BETWEEN PIPING, DUCTS, AND EQUIPMENT, ARCHITECTURAL OR STRUCTURAL FEATURES. IN CASE OF INTERFERENCE, THE ARCHITECT DECIDES WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH IS FIRST INSTALLED.

- THE INSTALLATION MUST COMPLY WITH ALL FEDERAL, STATE, MUNICIPAL OR OTHER AUTHORITY'S LAWS, RULES, OR REGULATIONS.

- AN ELECTRICAL INSPECTION SHALL BE MADE BY THE LOCAL INSPECTION AGENCY. ALL EQUIPMENT AND ITS COMPONENTS SHALL BEAR THE UNDERWRITERS LABEL.

- ALL LIGHT FIXTURES SHOWN SHALL BE SUPPORTED WITH FORMED CHANNELS, ANGLES, RODS, CLAMPS, WASHERS, ETC., OF SUFFICIENT SIZE AND STRENGTH TO SUPPORT THE WEIGHT OF THE FIXTURE FROM THE BUILDING STRUCTURE. ALL ADDITIONAL MOUNTING HARDWARE REQUIRED FOR A COMPLETE INSTALLATION IS TO BE SUPPLIED UNDER THIS CONTRACT. ALL RECESSED TROFFER LIGHTS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE VIA TWO (2) INDEPENDENT FOURTEEN (14) GAUGE WIRES FROM OPPOSITE CORNERS OF THE FIXTURE.

- LIGHT FIXTURE SCHEDULE IS AS INDICATED ON FLOOR PLANS OR EQUAL, BY EATON, CATY, HUBBELL, AND PHILIPS.

- LIGHT FIXTURES SHALL BE FOR CEILING TYPE AS REQUIRED.

- ALL PENETRATIONS THROUGH FIRE RATED WALL AND FLOOR SHALL BE SEALED WITH A SEALANT RATED FOR ITS USE. ALL OUTLETS BOXES SHALL HAVE COVERS.

- ALL WIRING AND CONDUIT SHALL BE CONCEALED IN FINISHED AREAS OF THE BUILDING.

- ARCHITECT/OWNER RESERVES THE RIGHT TO MOVE ANY OUTLET A DISTANCE OF TEN FEET BEFORE ROUGHING IN, AT NO ADDITIONAL EXPENSE TO THE OWNER.

- ALL EMERGENCY LIGHTING UNITS AND EXIT FIXTURES SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHES.

- CONTRACTOR SHALL COORDINATE SERVICES WITH MET ED, VERIZON, AND CATV COMPANY.

- CONTRACTOR TO PROVIDE CONDUIT, WIRING, COVER PLATES, AND JACKS FOR VOICEDATA SYSTEMS. THE CONTRACTOR SHALL PROVIDE SINGLE GANG OUTLET BOXES AND 3/4" CONDUIT TO ABOVE LIFT OUT CEILING FOR WIRING. CONTRACTOR SHALL RUN TWO (2) BY AIR CAT 6 CABLES TO EACH VOICEDATA OUTLET UNLESS NOTED OTHERWISE. TERMINATIONS AT THE JACK AND PATCH PANEL WILL BE BY THE ELECTRICAL CONTRACTOR ASSEMBLIES. TWO CATEGORY 6 MODULAR RJ45 JACKS AND FOUR BLANKS IN SIX-POSITION FLUSH-MOUNTING WALL PLATE, UNLESS OTHERWISE INDICATED. CABLE: UNSHIELDED MULTI-TWISTED PAIR, NO. 24 AWG LISTED FOR COMPLIANCE WITH CATEGORY 6 OF EIA/TIA 568 IN PVC SHEATH. CONTRACTOR SHALL PROVIDE ALL CABLE /OUTLET LABELING AND CIRCUIT TESTING. SUBMIT TESTING RESULTS TO OWNER FOR FINAL APPROVAL. COORDINATE EXACT LABELING REQUIREMENTS WITH OWNER.

- FIRE ALARM SHALL BE BASED ON GEI&E. EACH AND ALL ITEMS OF THE FIRE ALARM SYSTEM SHALL BE LISTED AS A PRODUCT OF A SINGLE FIRE ALARM SYSTEM MANUFACTURER BY UNDERWRITERS LABORATORIES, INC. (UL) AND SHALL BEAR THE "UL" LABEL. PULL STATIONS SHALL BE DOUBLE ACTION WITH NO GLASS ELEMENT TO BREAK (PLASTIC IS ACCEPTABLE).

1. GENERAL REQUIREMENTS:
 - a. PROVIDE READERS COMPATIBLE WITH CREDENTIALS TO BE USED.
 - b. COLOR: TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S AVAILABLE STANDARD COLORS.
2. PROXIMITY READER:
 - a. PRODUCT: DMP MODEL PROXPONT PLUS.
3. PROXIMITY CREDENTIALS:
 - a. PRODUCT: DMP:
 1. (100) PROX PATCH
 2. (100) PROXKEY III
 - b. RECESSED DOOR CONTACT (METAL DOOR):
 - b. OVERHEAD DOOR CONTACT:
1. DOOR LOCKING DEVICES (ELECTRIC STRIKES AND MAGNETIC LOCKS): COMPLY WITH SECTION 08 7100.
2. INSTALL ACCESS CONTROL SYSTEM IN ACCORDANCE WITH NECA 1 (GENERAL WORKMANSHIP).
3. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4. WIRING METHOD: UNLESS OTHERWISE INDICATED, USE CABLES (NOT IN CONDUIT).
 - a. USE SUITABLE LISTED CABLES IN WET LOCATIONS, INCLUDING UNDERGROUND RACEWAYS.
 - b. USE SUITABLE LISTED CABLES FOR VERTICAL RISER APPLICATIONS.
 - c. USE LISTED PLENUM RATED CABLES IN SPACES USED FOR ENVIRONMENTAL AIR.
4. INSTALL WIRING IN CONDUIT FOR THE FOLLOWING:
 1. WHERE REQUIRED FOR ROUGH-IN.
 2. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
 3. WHERE EXPOSED TO DAMAGE.
 4. WHERE INSTALLED OUTSIDE THE BUILDING.
 5. FOR EXPOSED CONNECTIONS FROM OUTLET BOXES TO DEVICES.
5. CONCEAL CABLES UNLESS SPECIFICALLY INDICATED TO BE EXPOSED.
6. ROUTE EXPOSED CABLES PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS AND SURFACES.
7. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM CABLE LENGTH BETWEEN COMPONENTS.
5. PROVIDE GROUNDING AND BONDING
6. INSTALL FIRESTOPPING TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS, USING MATERIALS AND METHODS SPECIFIED IN SECTION 07 4400.
7. IDENTIFY SYSTEM WIRING AND COMPONENTS IN ACCORDANCE WITH SECTION 26 0553.
8. PREPARE AND START SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
9. PROGRAM SYSTEM PARAMETERS ACCORDING TO REQUIREMENTS OF OWNER.
10. TEST FOR PROPER INTERFACE WITH OTHER SYSTEMS.
11. CORRECT DEFECTIVE WORK, ADJUST FOR PROPER OPERATION, AND RETEST UNTIL ENTIRE SYSTEM COMPLIES WITH CONTRACT DOCUMENTS.
12. SUBMIT DETAILED REPORTS INDICATING INSPECTION AND TESTING RESULTS AND CORRECTIVE ACTIONS TAKEN.
13. DEMONSTRATION: DEMONSTRATE PROPER OPERATION OF SYSTEM TO OWNER, AND CORRECT DEFICIENCIES OR MAKE ADJUSTMENTS AS DIRECTED BY OWNER.
14. TRAINING: TRAIN OWNER'S PERSONNEL ON OPERATION, ADJUSTMENT, AND MAINTENANCE OF SYSTEM.
 - a. USE OPERATION AND MAINTENANCE MANUAL AS TRAINING REFERENCE, SUPPLEMENTED WITH ADDITIONAL TRAINING MATERIALS AS REQUIRED.
 - b. PROVIDE MINIMUM OF FOUR HOURS OF TRAINING.
 - c. INSTRUCTOR: MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
 - d. LOCATION: AT PROJECT SITE.

PROVIDE MINIMUM ONE YEAR MANUFACTURER WARRANTY COVERING REPAIR OR REPLACEMENT DUE TO DEFECTIVE WORKMANSHIP.

B. PROVIDE NEW VIDEO SURVEILLANCE SYSTEM CONSISTING OF ALL REQUIRED EQUIPMENT, CONDUIT, BOXES, VIDEOS, CONNECTORS, HARDWARE, SUPPORTS, ACCESSORIES, SOFTWARE, SYSTEM PROGRAMMING, ETC. AS NECESSARY FOR A COMPLETE OPERATING SYSTEM THAT PROVIDES THE FUNCTIONAL INTENT INDICATED.

C. SYSTEM DESCRIPTION: IP SYSTEM WITH CONNECTION TO NETWORK (IP) CAMERAS.

1. SURGE PROTECTION:

- a. PROVIDE SURGE PROTECTION FOR EXTERIOR CAMERAS.

D. CAMERAS REQUIRED:

- 1. PROVIDE AS INDICATED ON THE DRAWINGS.

E. INTERFACE WITH OTHER SYSTEMS:

- 1. PROVIDE PRODUCTS COMPATIBLE WITH OTHER SYSTEMS REQUIRING INTERFACE WITH VIDEO SURVEILLANCE SYSTEM.
- 2. INTERFACE WITH ACCESS CONTROL SYSTEM AS SPECIFIED IN SECTION 28 1000.
 - a. CAPABLE OF AFFECTING CAMERA/VIDEO OPERATION FOR SELECTED ACCESS CONTROL SYSTEM EVENTS.
- F. PROVIDE PRODUCTS LISTED, CLASSIFIED, AND LABELED AS SUITABLE FOR THE PURPOSE INTENDED.
- G. PROVIDE VIDEO RECORDING AND VIEWING EQUIPMENT COMPATIBLE WITH CAMERAS TO BE CONNECTED TO AVIGILON AT-LA VIDEO CLOUD-BASED VMS.
- 1. INCLUDE REQUIRED LICENSING AND CLOUD STORAGE REQUIRED.

H. SOFTWARE:

- 1. UNLESS OTHERWISE INDICATED, PROVIDE ALL SOFTWARE AND LICENSES REQUIRED FOR FULLY OPERATIONAL SYSTEM.

I. MONITORS:

- 1. UNLESS OTHERWISE INDICATED, MONITORS TO BE PROVIDED BY OTHERS, MEETING SPECIFIED MINIMUM REQUIREMENTS.

J. PROVIDE CAMERAS AND ASSOCIATED ACCESSORIES SUITABLE FOR OPERATION UNDER THE SERVICE CONDITIONS AT THE INSTALLED LOCATION. PROVIDE ADDITIONAL COMPONENTS (E.G. ENCLOSURES, HEATERS, BLOWERS, ETC.) AS REQUIRED.

K. NETWORK (IP) CAMERAS:

- 1. SIGNAL-TO-NOISE RATIO: NOT LESS THAN 50 DB.
 - a. MAXIMUM FRAME RATE: 50/60 FPS AT 50/60 HZ.
 - b. MINIMUM ILLUMINATION/LIGHT SENSITIVITY (COLOR): 0.03 LUX.
- 2. NETWORK (IP) FIXED DOME CAMERA - BRAND OF DESIGN: AVIGILON; MODEL 6.0C-6HA-001.
- a. MAXIMUM FRAME RESOLUTION: 1920 X 1080.
- b. MINIMUM FRAME RATE: 50/60 FPS AT 50/60 HZ.
- c. IMAGE SENSOR SIZE: 1/1.8" PROGRESSIVE SCAN CMOS
- d. MINIMUM ILLUMINATION/LIGHT SENSITIVITY (COLOR): 0.02 LUX.

L. CAMERA ENCLOSURES: PROVIDE CAMERA ENCLOSURES SUITABLE FOR OPERATION UNDER SERVICE CONDITIONS AT INSTALLED LOCATION.

M. CAMERA MOUNTING SUPPORTS: PROVIDE MOUNTING SUPPORTS NECESSARY FOR INSTALLATION.

N. PROVIDE COMPONENTS AS INDICATED OR AS REQUIRED FOR CONNECTION OF VIDEO SURVEILLANCE SYSTEM TO DEVICES AND OTHER SYSTEMS INDICATED.

O. PROVIDE COMPONENTS AS INDICATED OR AS REQUIRED FOR SYSTEM POWER AND NETWORK CONNECTIONS.

P. PROVIDE CABLES AS LISTED OR AS REQUIRED FOR CONNECTIONS BETWEEN SYSTEM COMPONENTS.

- 1. DATA CABLES FOR IP NETWORK CONNECTIONS: UNSHIELDED TWISTED PAIR (UTP), MINIMUM CATEGORY 6 , COMPLYING WITH SECTION 27 1000.
- 2. PROVIDE ACCESSORY RACKS/CABINETS AS INDICATED OR AS REQUIRED FOR EQUIPMENT MOUNTING.

R. INSTALL VIDEO SURVEILLANCE SYSTEM IN ACCORDANCE WITH NECA 1 (GENERAL WORKMANSHIP) AND NECA 303.

S. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

T. PROVIDE REQUIRED SUPPORT AND ATTACHMENT IN ACCORDANCE WITH SECTION 26 0529.

U. WIRING METHOD: UNLESS OTHERWISE SPECIFIED, USE CABLES (NOT IN CONDUIT).

- 1. USE SUITABLE LISTED CABLES IN WET LOCATIONS.
- 2. USE SUITABLE LISTED CABLES FOR VERTICAL RISER APPLICATIONS.
- 3. USE LISTED PLENUM RATED CABLES IN SPACES USED FOR ENVIRONMENTAL AIR.

4. INSTALL WIRING IN CONDUIT FOR THE FOLLOWING:

- a. WHERE REQUIRED FOR ROUGH-IN.
- b. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- c. WHERE EXPOSED TO DAMAGE.
- d. WHERE INSTALLED OUTSIDE THE BUILDING.
- e. FOR EXPOSED CONNECTIONS FROM OUTLET BOXES TO CAMERAS.

5. CONDUIT: COMPLY WITH SECTION 26 0533.13.

6. CONCEAL ALL CABLES UNLESS SPECIFICALLY INDICATED TO BE EXPOSED.

7. ROUTE EXPOSED CABLES PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL MEMBERS AND SURFACES.

V. PREPARE AND START SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

W. ADJUST CAMERAS TO PROVIDE DESIRED FIELD OF VIEW AND PRODUCE SATISFACTORY IMAGES UNDER ALL SERVICE LIGHTING CONDITIONS.

X. PROGRAM SYSTEM PARAMETERS ACCORDING TO REQUIREMENTS OF OWNER.

Y. TEST FOR PROPER INTERFACE WITH OTHER SYSTEMS.

Z. CORRECT DEFECTIVE WORK: ADJUST FOR PROPER OPERATION, AND RETEST UNTIL ENTIRE SYSTEM COMPLIES WITH CONTRACT DOCUMENTS.

AA. DEMONSTRATION: DEMONSTRATE PROPER OPERATION OF SYSTEM TO OWNER, AND CORRECT DEFICIENCIES OR MAKE ADJUSTMENTS AS DIRECTED.

BB. TRAINING: TRAIN OWNER'S PERSONNEL ON OPERATION, ADJUSTMENT, AND MAINTENANCE OF SYSTEM.

1. USE OPERATION AND MAINTENANCE MANUAL AS TRAINING REFERENCE, SUPPLEMENTED WITH ADDITIONAL TRAINING MATERIALS AS REQUIRED.

2. PROVIDE MINIMUM OF FOUR HOURS OF TRAINING.

3. INSTRUCTOR: MANUFACTURER'S AUTHORIZED REPRESENTATIVE.

4. LOCATION: AT PROJECT SITE.

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ELECTRICAL SPECIFICATIONS	
Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	D.J.
Checked By	JLS
E002	
Scale	

7/17/2026 2:59:07 PM
C:\Users\JRW\Documents\Datashy Building 5 - Self Storage - Electrical R24_Jordan-Weaver.net

Branch Panel: MDP											
Location: ELECTRICAL 105				Volts: 480/277 Wye				A.I.C. Rating: 65KA			
Supply From: MDP				Phases: 3				Mains Type: MCB			
Mounting: Surface				Wires: 4				Mains Rating: 800 A			
Enclosure: NEMA 1								MCB Rating: 800 A			
Notes:											
CK T	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CK T	
1	PANEL HA	200 A	3	2710... 4010...	2399... 4160...		3	200 A	PANEL HB	2	
3				3149... 1100...	3256... 1000...	2533... 3984...	3			4	
5	PANEL LMB VIA TRANSFORMER "TLMB"	110 A	3		3256... 1000...		3	50 A	PANEL SR VIA TRANSFORMER "TSR"	6	
7						3087... 1000...				8	
9				9407... 9407...						10	
11					9407... 9407...		3	80 A	ELEVATOR NO. 2	12	
13	ELEVATOR NO. 1	80 A	3			9407... 9407...	3	80 A	ELEVATOR NO. 2	14	
15										16	
17	SHUNT TRIP	--	1	-- --	-- --		1	--	SHUNT TRIP	18	
19					-- --					20	
21	PROVISION	--	3			-- --	3	--	PROVISION	22	
23				-- --						24	
25					-- --					26	
27				-- --	-- --					28	
29	PROVISION	--	3			-- --	3	--	PROVISION	30	
31				-- --						32	
Total Load:				128518 VA	126977 VA	124876 VA					
Total Amps:				465 A	460 A	451 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEPTACLE	49216 VA	60.16%	29608 VA	
ELECTRIC HEAT	6000 VA	100.00%	6000 VA	Total Conn. Load: 379871 VA
ELEVATOR	0 VA	0.00%	0 VA	Total Est. Demand: 363554 VA
LIGHTING	13163 VA	125.00%	16454 VA	Total Conn. Current: 457 A
MISCELLANEOUS	1500 VA	100.00%	1500 VA	Total Est. Demand... 437 A
MOTORS	3617 VA	100.00%	3617 VA	
HVAC	143311 VA	100.00%	143311 VA	

Branch Panel: HA		
Location: SPRINKLER ROOM 106	Volts: 480/277 Wye	A.I.C. Rating: 14KA
Supply From: MDP	Phases: 3	Mains Type: MLO
Mounting: Surface	Wires: 4	Mains Rating: 225 A
Enclosure: NEMA 1		

CK T	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CK T	
1	1ST FLOOR HALLWAY LTS.	20 A	1	504 VA 1639...				1	20 A	1ST FLOOR HALLWAY LTS.	2
3	1ST FLOOR HALLWAY LTS.	20 A	1		144 VA 522 VA			1	20 A	2ND FLOOR STORAGE UNIT LTS.	4
5	2ND FLOOR HALLWAY LTS.	20 A	1			624 VA 198 VA		1	20 A	3RD FLOOR STORAGE UNIT LTS.	6
7	2ND FLOOR HALLWAY LTS.	20 A	1	805 VA 795 VA				1	20 A	4TH FLOOR HALLWAY LTS.	8
9	3RD FLOOR HALLWAY LTS.	20 A	1		720 VA 500 VA			1	20 A	BUILDING MOUNTED SIGN	10
11	3RD FLOOR HALLWAY LTS.	20 A	1		888 VA 500 VA			1	20 A	BUILDING MOUNTED SIGN	12
13	4TH FLOOR HALLWAY LTS.	20 A	1	1022... 500 VA				1	20 A	BUILDING MOUNTED SIGN	14
15	3RD/4TH FLOOR HALLWAY LTS.	20 A	1		2829... 0 VA			1	20 A	SPARE	16
17	DH-3-2 *	15 A	1			1745... 3000...		1	20 A	EH-1	18
19	DH-4-1 *	15 A	1	1745... 1745...				1	15 A	DH-4-2 *	20
21	DH-3-1 *	15 A	1		1745... 1745...			1	15 A	DH-2-1 *	22
23	DH-2-2 *	15 A	1			1745... 1745...		1	15 A	DH-1-1 *	24
25				3333... 1745...				1	15 A	DH-1-2 *	26
27	EDH-4-2	20 A	3		3333... 0 VA			1	20 A	SPARE	28
29					3333... 0 VA			1	20 A	SPARE	30
31				3333... 3333...							32
33	EDH-4-1	20 A	3		3333... 3333...			3	20 A	EDH-1-2	34
35					3333... 3333...						36
37				3333... 3268...							38
39	EDH-1-1	20 A	3		3333... 2452...			3	50 A	PANEL "LA" * - TRANSFORMER "TLA"	40
41					3333... 1560...						42
Total Load:				27102 VA	23990 VA	25339 VA					
Total Amps:				99 A	87 A	92 A					

Legend:

* PROVIDE GFI TYPE CIRCUIT BREAKER.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEPTACLE	4600 VA	100.00%	4500 VA	
ELECTRIC HEAT	3000 VA	100.00%	3000 VA	Total Conn. Load: 76431 VA
ELEVATOR	0 VA	0.00%	0 VA	Total Est. Demand: 78206 VA
LIGHTING	7098 VA	125.00%	8873 VA	Total Conn. Current: 92 A
MISCELLANEOUS	500 VA	100.00%	500 VA	Total Est. Demand... 94 A
MOTORS	1620 VA	100.00%	1620 VA	
HVAC	13961 VA	100.00%	13961 VA	

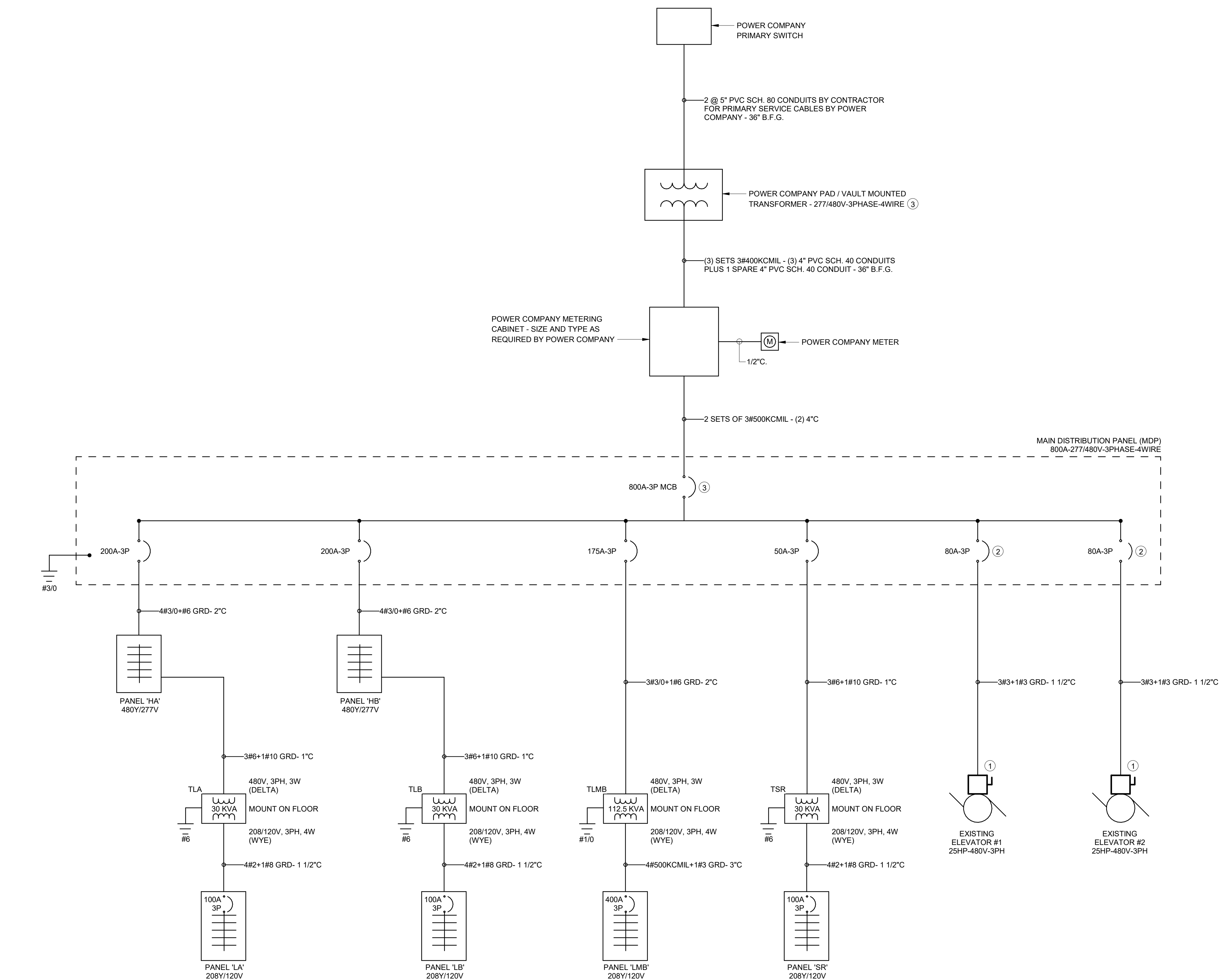
Branch Panel: LA											
Location: SPRINKLER ROOM 106				Volts: 120/208 Wye				A.I.C. Rating: 10KA			
Supply From: TLA				Phases: 3				Mains Type: MCB			
Mounting: Surface				Wires: 4				Mains Rating: 100 A			
Enclosure: NEMA 1								MCB Rating: 100 A			

CK T	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CK T	
1	1ST FLOOR HALLWAY REC. / ...	20 A	1	884 VA 1180...				1	20 A	3RD FLOOR HALLWAY RECEPTS.	2
3	2ND FLOOR HALLWAY RECPTS.	20 A	1		820 VA 1080...			1	20 A	4TH FLOOR HALLWAY RECEPTS.	4
5	SP-1	20 A	1			1320... 240 VA		1	20 A	ELEV. NO. 1 PIT REC. / LTS	6
7	SPKLR / ELEC. REC. / MOD / CP-2	20 A	1	704 VA 500 VA				1	20 A	ELEV. NO. 1 CAB LTS / CTRL PNL	8
9	TF-2	20 A	1		324 VA 228 VA			1	20 A	ELEV. MACHINE RM LTS / REC.	10
11	SPARE	20 A	1			0 VA 0 VA		1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA 0 VA				1	20 A	SPARE	14
15	PROVISION	--	1		--	--		1	--	PROVISION	16
17	PROVISION	--	1			--	--	1	--	PROVISION	18
19	PROVISION	--	1	--	--			1	--	PROVISION	20
21	PROVISION	--	1		--	--		1	--	PROVISION	22
23	PROVISION	--	1			--	--	1	--	PROVISION	24
Total Load:				3268 VA	2452 VA	1560 VA					
Total Amps:				28 A	22 A	13 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEPTACLE	4500 VA	100.00%	4500 VA	
ELECTRIC HEAT	0 VA	0.00%	0 VA	Total Conn. Load: 7280 VA
ELEVATOR	0 VA	0.00%	0 VA	Total Est. Demand: 7307 VA
LIGHTING	108 VA	125.00%	135 VA	Total Conn. Current: 20 A
MISCELLANEOUS	500 VA	100.00%	500 VA	Total Est. Demand... 20 A
MOTORS	1620 VA	100.00%	1620 VA	
HVAC	0 VA	0.00%	0 VA	

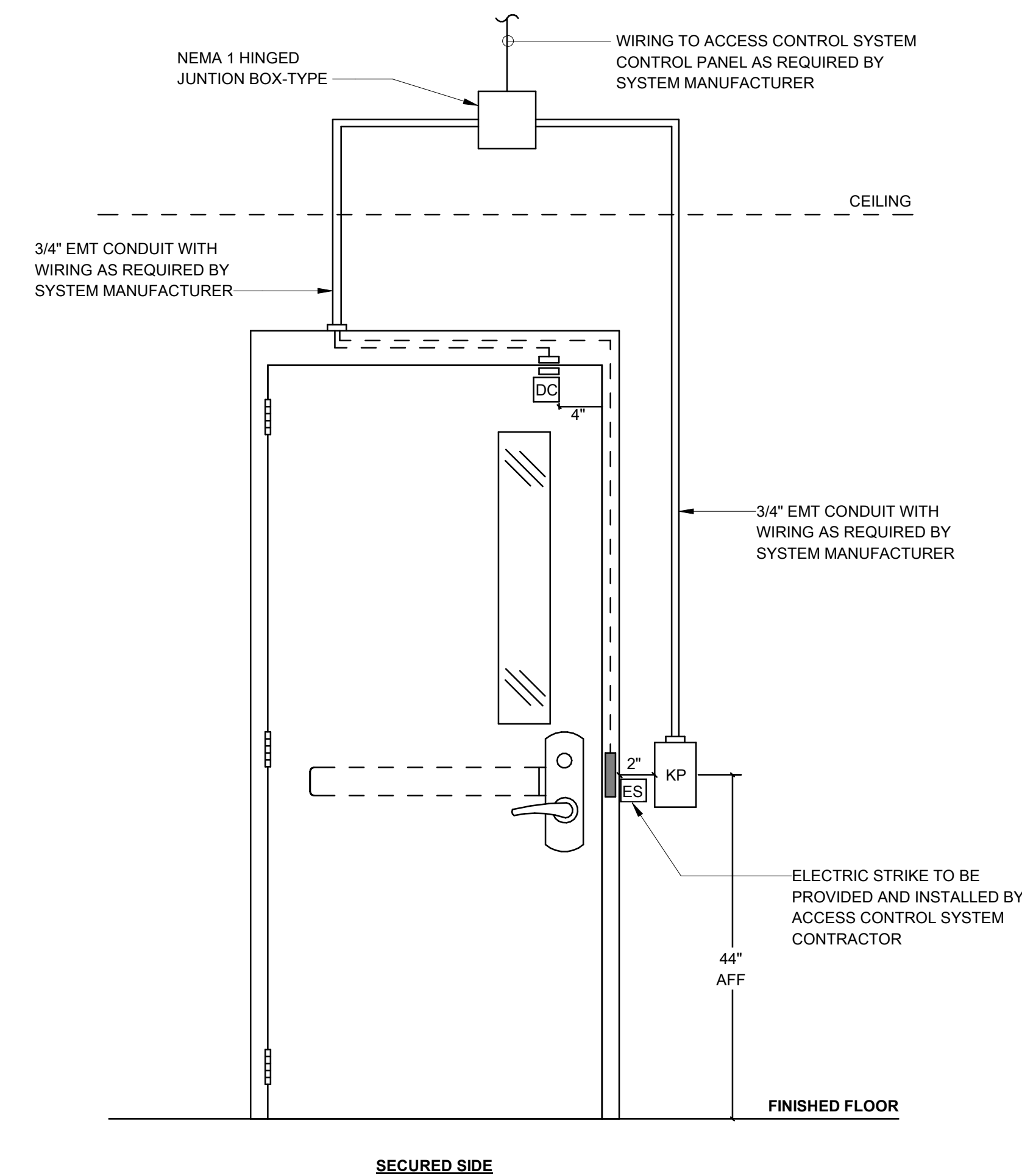
Branch Panel: HB											
Location: ELECTRICAL 105					Volts: 480/277 Wye			A.I.C. Rating: 65KA			
Supply From: MDP					Phases: 3			Mains Type: MLO			
Mounting: Surface					Wires: 4			Mains Rating: 225 A			
Enclosure: NEMA 1											
Notes:											
CK T	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CK T	
1	1ST FLOOR HALLWAY LTS.	20 A	1	624 VA 756 VA				1	20 A	1ST FLOOR STORAGE UNIT LTS.	2
3	1ST FLOOR HALLWAY LTS.	20 A	1		1328... 702 VA			1	20 A	2ND FLOOR STORAGE UNIT LTS.	4
5	2ND FLOOR HALLWAY LTS.	20 A	1			384 VA 180 VA		1	20 A	3RD FLOOR STORAGE UNIT LTS.	6
7	2ND FLOOR HALLWAY LTS.	20 A	1	1410... 144 VA				1	20 A	4TH FLOOR STORAGE UNIT LTS.	8
9	3RD FLOOR HALLWAY LTS.	20 A	1		408 VA 740 VA			1	20 A	2ND FLOOR OFFICE LTS.	10
11	3RD FLOOR HALLWAY LTS.	20 A	1			1274... 2205...		1	20 A	3RD/4TH FLOOR HALLWAY LTS.	12
13	4TH FLOOR HALLWAY LTS.	20 A	1	291 VA 0 VA				1	20 A	SPARE	14
15	4TH FLOOR HALLWAY LTS.	20 A	1		1541... 0 VA			1	20 A	SPARE	16
17	EH-2	20 A	1			2000... 3000...		1	20 A	EH-3	18
19	DH-4-3 *	15 A	1	1745... 0 VA				1	20 A	SPARE	20
21	DH-3-3 *	15 A	1		1745... 1745...			1	20 A	DH-1-4	22
23	SPARE	20 A	1			0 VA 1745...		1	15 A	DH-1-3 *	24
25				3333... 3333...							26
27	EDH-1-4	20 A	3		3333... 3333...			3	20 A	EDH-1-3	28
29						3333... 3333...					30
31				6667... 3436...							32
33	UH-2	35 A	3		6667... 3436...			3	20 A	UH-1	34
35						6667... 3436...					36
37				3333... 3333...							38
39	EDH-4-3	20 A	3		3333... 3333...			3	20 A	EDH-4-4	40
41						3333... 3333...					42
43				0 VA 1043...							44
45	SPARE	20 A	3		0 VA 9960...			3	50 A	PANEL "LB" * - TRANSFORMER "TLB"	46
47						0 VA 5624...					48
49				0 VA 0 VA							50
51	SPARE	20 A	3		0 VA 0 VA			3	20 A	SPARE	52
53					0 VA 0 VA						54
55	BUILDING MOUNTED LIGHTING	20 A	1	768 VA 500 VA				1	20 A	BUILDING MOUNTED SIGN	56
57	BUILDING MOUNTED LIGHTING	20 A	1		72 VA --			1	--	PROVISION	58
59	PROVISION	--	1			--	--	1	--	PROVISION	60
61	PROVISION	--	1	--	--			1	--	PROVISION	62



1 ONE-LINE DIAGRAM
NO SCALE

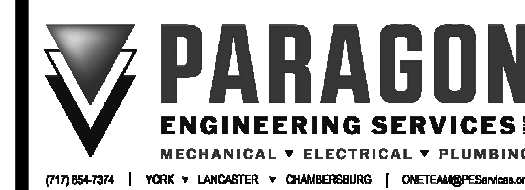
ONE-LINE DIAGRAM NOTES: (#)

1. 100/80A-3P-3F-600V-NEMA-1 DISCONNECT SWITCH. PROVIDE FUSE SIZE AND TYPE AS RECOMMENDED BY ELEVATOR MANUFACTURER.
2. CONNECT ELEVATOR SHUNT TRIP DEVICE TO FIRE ALARM SYSTEM CONTROL PANEL AS REQUIRED BY CODE.
3. CONTRACTOR MUST VERIFY THE AVAILABLE INTERRUPTING CURRENT FROM THE POWER COMPANY AND COORDINATE ALL ELECTRICAL EQUIPMENT RATINGS AS REQUIRED TO MEET CODE. MINIMUM SHORT CIRCUIT RATINGS ARE CALCULATED BASED ON A 60,200AMP A.I.C. AT THE SECONDARY OF THE POWER COMPANY TRANSFORMER.



2 SINGLE DOOR - ELECTRIC DOOR STRIKE
NO SCALE

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[illegible]StorageMart at York
Creek (Building 5)

470 W College Ave, York, PA 17401

ONE-LINE DIAGRAM

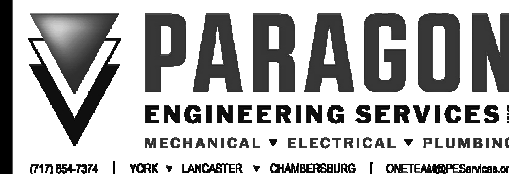
Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	D.J.
Checked By	JLS

E004

Scale	As indicated
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No.	Date	Description
1	2025-08-11	CEILING AND GARAGE CHANGES



StorageMart at York
Creek (Building 5)
470 W College Ave, York, PA 17401

**FIRST FLOOR PLAN
- LIGHTING**

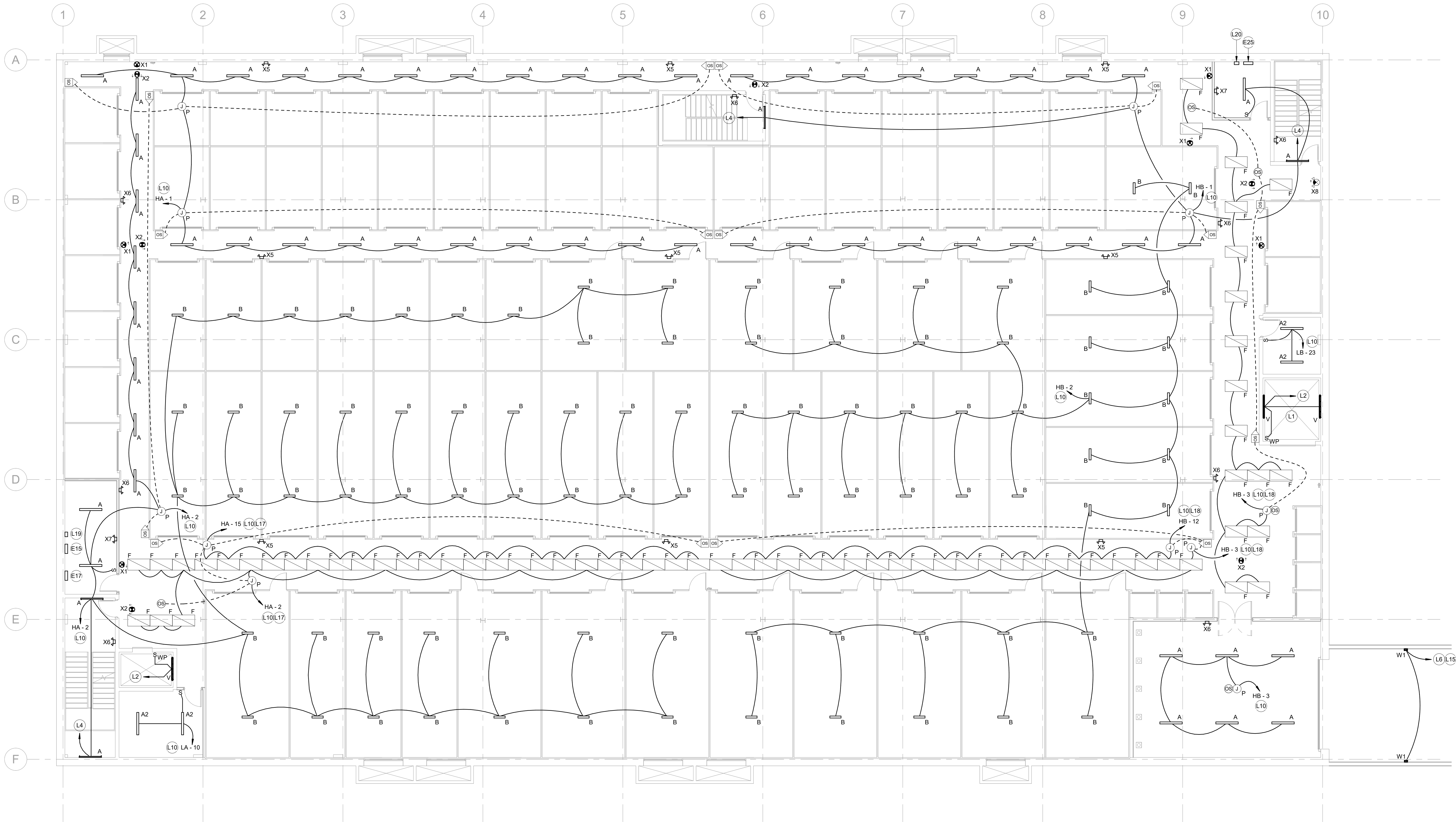
Project Number 1714-24-001
Date MAY 5, 2025
Drawn By DJ
Checked By JLS

E101

Scale 1/8" = 1'-0"

TAG	DESCRIPTION
L1	COORDINATE EXACT MOUNTING LOCATION IN FIELD WITH EQUIPMENT TO BE PROVIDED.
L2	CONNECT TO ELEVATOR PIT RECEPTACLE CIRCUIT.
L4	CONNECT TO "A1" TYPE LIGHT FIXTURE IN STAIRWELL ON LEVEL ABOVE.
L6	LIGHTING CIRCUIT HOME RUN TO PANEL AND BETWEEN LIGHT FIXTURES SHALL BE #10.
L10	LIGHTING CIRCUIT HOME RUN TO PANEL SHALL BE #10.
L15	CONNECT TO "W1" TYPE LIGHT FIXTURE SHOWN ON "ENLARGED OFFICE PLAN - LIGHTING" ON SHEET E401.
L17	CONNECT LIGHTING CIRCUIT THRU DIMMER SWITCH LOCATED ADJACENT TO PANEL "HA".
L18	CONNECT LIGHTING CIRCUIT THRU DIMMER SWITCH LOCATED ADJACENT TO PANEL "HB".
L19	PROVIDE SIX(6) DIMMER SWITCHES TO CONTROL TYPE "P" LIGHT FIXTURES.
L20	PROVIDE NINE(9) DIMMER SWITCHES TO CONTROL TYPE "F" LIGHT FIXTURES.

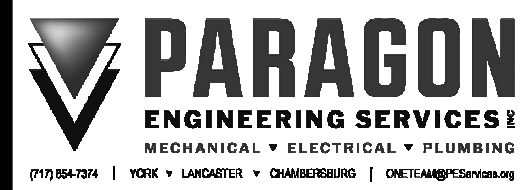
TAG	DESCRIPTION
E16	PANEL "HA".
E17	PANEL "LA".
E25	PANEL "HB".



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

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No.	Date	Description
1	2025-08-11	CEILING AND GARAGE CHANGES

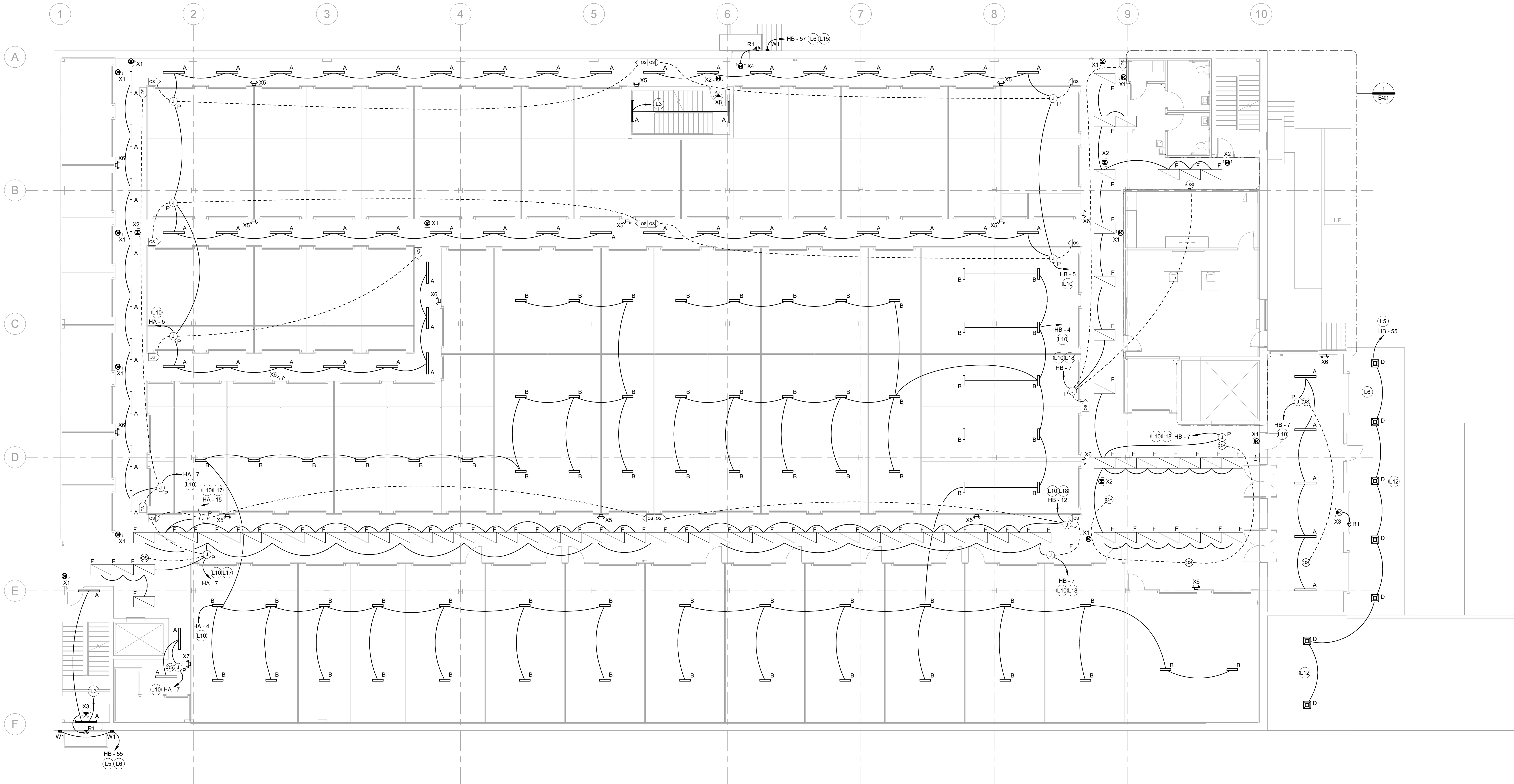


StorageMart at York
Creek (Building 5)
470 W College Ave, York, PA 17401

SECOND FLOOR PLAN - LIGHTING	
Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	DJ
Checked By	JLS

E102
Scale 1/8" = 1'-0"

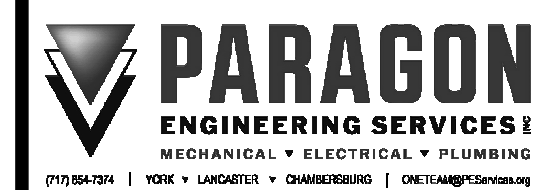
TAG	DESCRIPTION
L3	CONNECT TO "A1" TYPE LIGHT FIXTURE IN STAIRWELL ON LEVEL BELOW.
L5	CONNECT LIGHTING CIRCUIT THRU LIGHTING CONTROL PANEL (LCP) LOCATED IN ELECTRICAL EQUIPMENT ROOM ON FIRST FLOOR. LIGHTS TO BE CONTROLLED BY PHOTOCELL ONLY.
L6	LIGHTING CIRCUIT HOME RUN TO PANEL AND BETWEEN LIGHT FIXTURES SHALL BE #10.
L10	LIGHTING CIRCUIT HOME RUN TO PANEL SHALL BE #10.
L12	CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING FLUSH MOUNTED LIGHT FIXTURES. REPAIR EXISTING OPENINGS AS REQUIRED TO INSTALL NEW FLUSH MOUNTED LIGHT FIXTURES AT SAME LOCATIONS.
L15	CONNECT TO "W1" TYPE LIGHT FIXTURE SHOWN ON "ENLARGED OFFICE PLAN - LIGHTING" ON SHEET E401.
L17	CONNECT LIGHTING CIRCUIT THRU DIMMER SWITCH LOCATED ADJACENT TO PANEL "HA".
L18	CONNECT LIGHTING CIRCUIT THRU DIMMER SWITCH LOCATED ADJACENT TO PANEL "HB".



ELECTRICAL SHEET NOTES - LIGHTING	
TAG	DESCRIPTION
L3	CONNECT TO "A1" TYPE LIGHT FIXTURE IN STAIRWELL ON LEVEL BELOW.
L5	CONNECT LIGHTING CIRCUIT THRU LIGHTING CONTROL PANEL (LCP) LOCATED IN ELECTRICAL EQUIPMENT ROOM ON FIRST FLOOR. LIGHTS TO BE CONTROLLED BY PHOTOCELL ON ROOF.
L6	LIGHTING CIRCUIT HOME RUN TO PANEL AND BETWEEN LIGHT FIXTURES SHALL BE #10.
L10	LIGHTING CIRCUIT HOME RUN TO PANEL SHALL BE #10.
L17	CONNECT LIGHTING CIRCUIT THRU DIMMER SWITCH LOCATED ADJACENT TO PANEL "HA".
L18	CONNECT LIGHTING CIRCUIT THRU DIMMER SWITCH LOCATED ADJACENT TO PANEL "HA".



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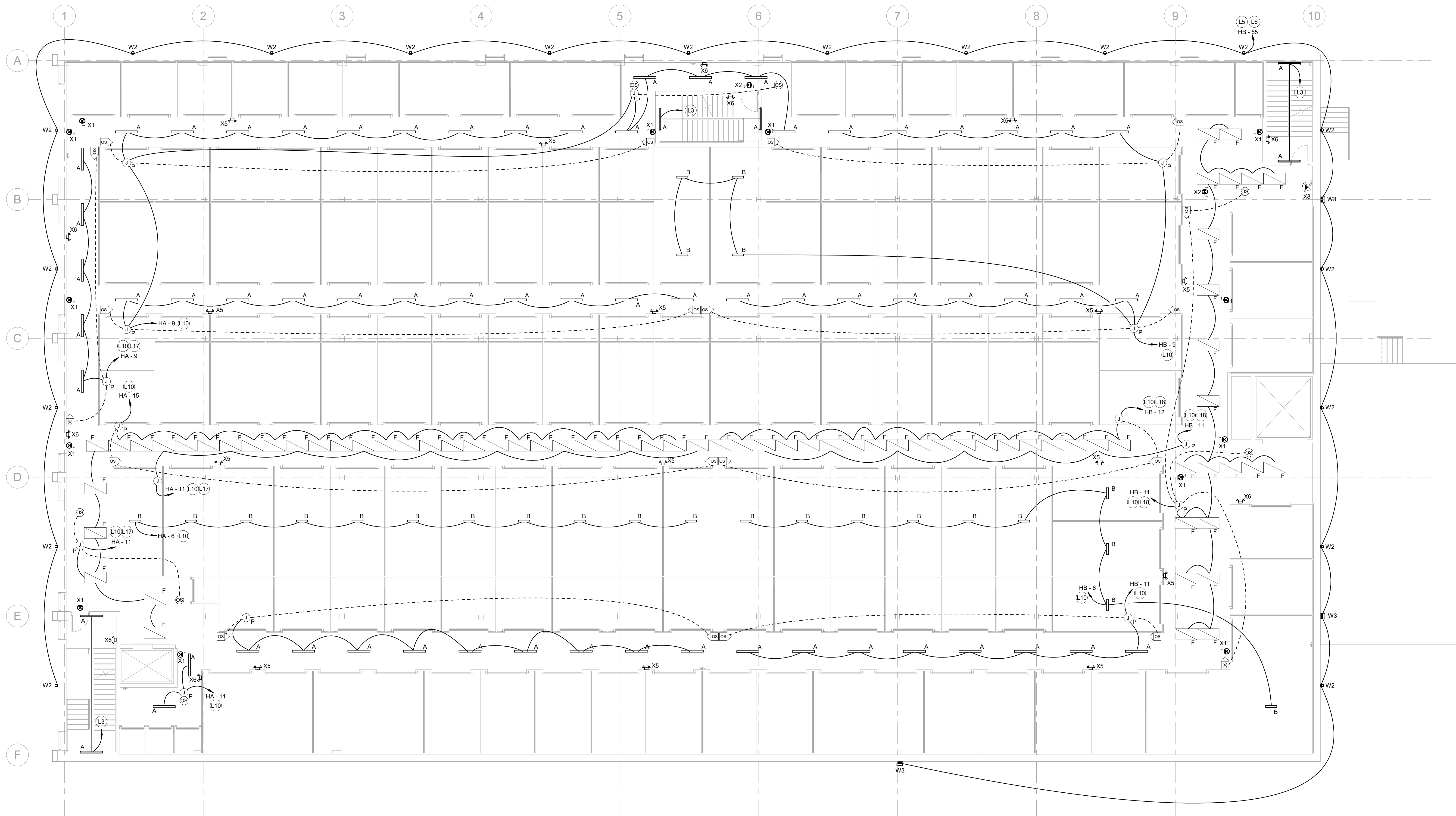
THIRD FLOOR PLAN - LIGHTING

Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	DJ
Checked By	JLS

E103

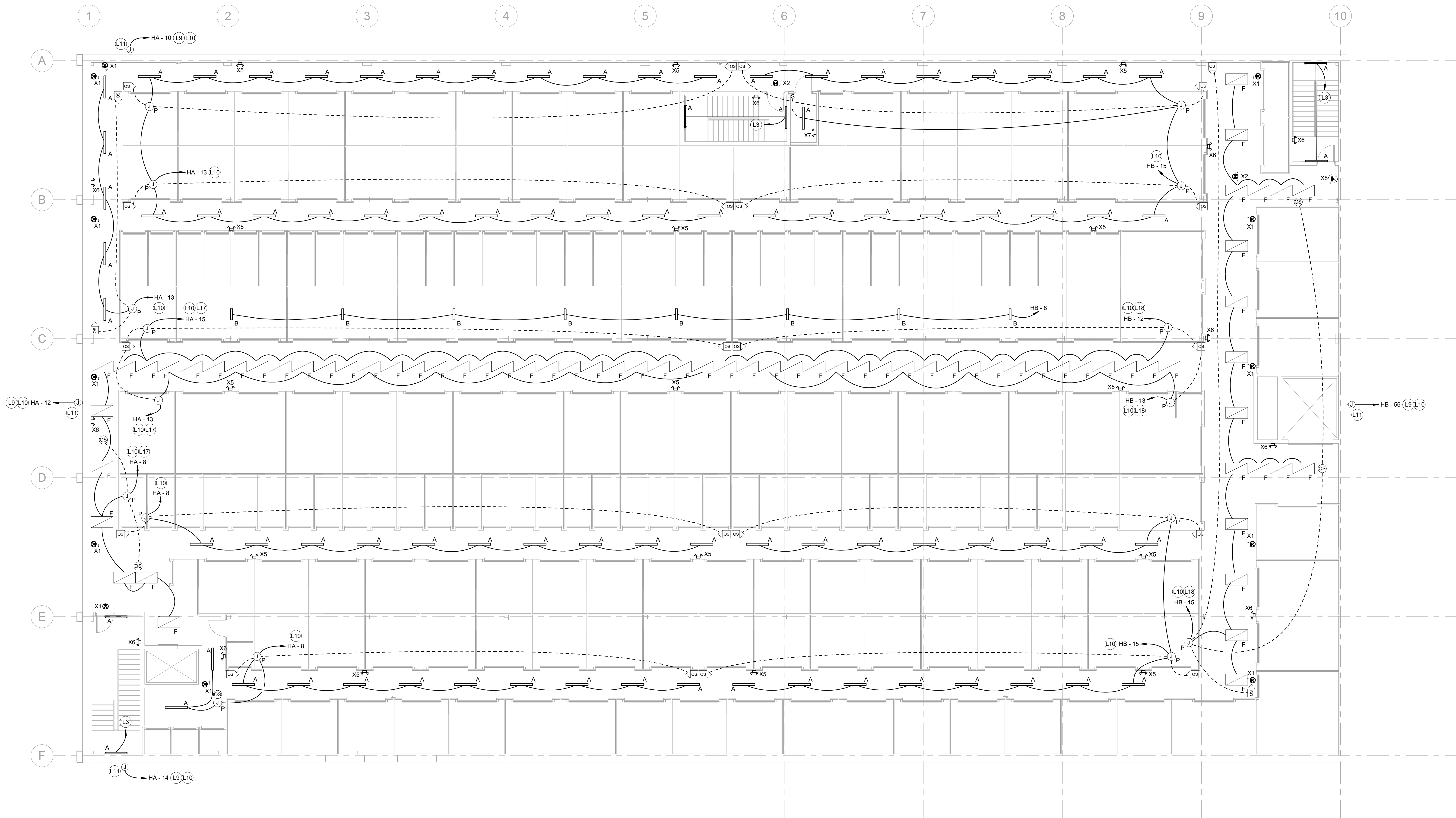
Scale	1/8" = 1'-0"
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1 THIRD FLOOR PLAN - LIGHTING
1/8" = 1'-0"

ELECTRICAL SHEET NOTES - LIGHTING	
TAG	DESCRIPTION
L3	CONNECT TO "A1" TYPE LIGHT FIXTURE IN STAIRWELL ON LEVEL BELOW.
L9	CONNECT LIGHTING CIRCUIT THRU LIGHTING CONTROL PANEL (LCP) LOCATED IN ELECTRICAL EQUIPMENT ROOM ON FIRST FLOOR. SIGN TO BE CONTROLLED BY PHOTOCELL AND TIMECLOCK.
L10	LIGHTING CIRCUIT HOME RUN TO PANEL SHALL BE #10.
L11	OUTLET FOR BUILDING MOUNTED SIGNAGE. COORDINATE EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER AND SIGN MANUFACTURER/INSTALLER IN FIELD.
L17	CONNECT LIGHTING CIRCUIT THRU DIMMER SWITCH LOCATED ADJACENT TO PANEL "HA".
L18	CONNECT LIGHTING CIRCUIT THRU DIMMER SWITCH LOCATED ADJACENT TO PANEL "HB".



① FOURTH FLOOR PLAN - LIGHTING
1/8" = 1'-0"

ARCHITECTS

HOFMANN ASSOCIATES, INC.

606 Baltimore Ave. Suite 102
Towson, Maryland 21204
410-828-9090
fax 410-828-4433

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No.	Date	Description
1	2025-08-11	CEILING AND GARAGE CHANGES

PARAGON

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PROJECTS | NEW • RENOVATION • DEMOLITION | OUTSOURCING

StorageMart at York
Creek (Building 5)

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FOURTH FLOOR PLAN - LIGHTING	
Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	DJ
Checked By	JLS

E104

Scale 1/8" = 1'-0"

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C:\Users\JLS\Documents\Drawings\Building 5 - Self Storage - Electrical\PSD_Building5\Sheet 104.dwg

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Description
CEILING AND GARAGE CHANGES

Date
2025-08-11

No.
1

StorageMart at York
Creek (Building 5)

470 W College Ave, York, PA 17401

**FIRST FLOOR PLAN
- POWER**

Project Number 1714-24-001
Date MAY 5, 2025
Drawn By DJ
Checked By JLS

E201

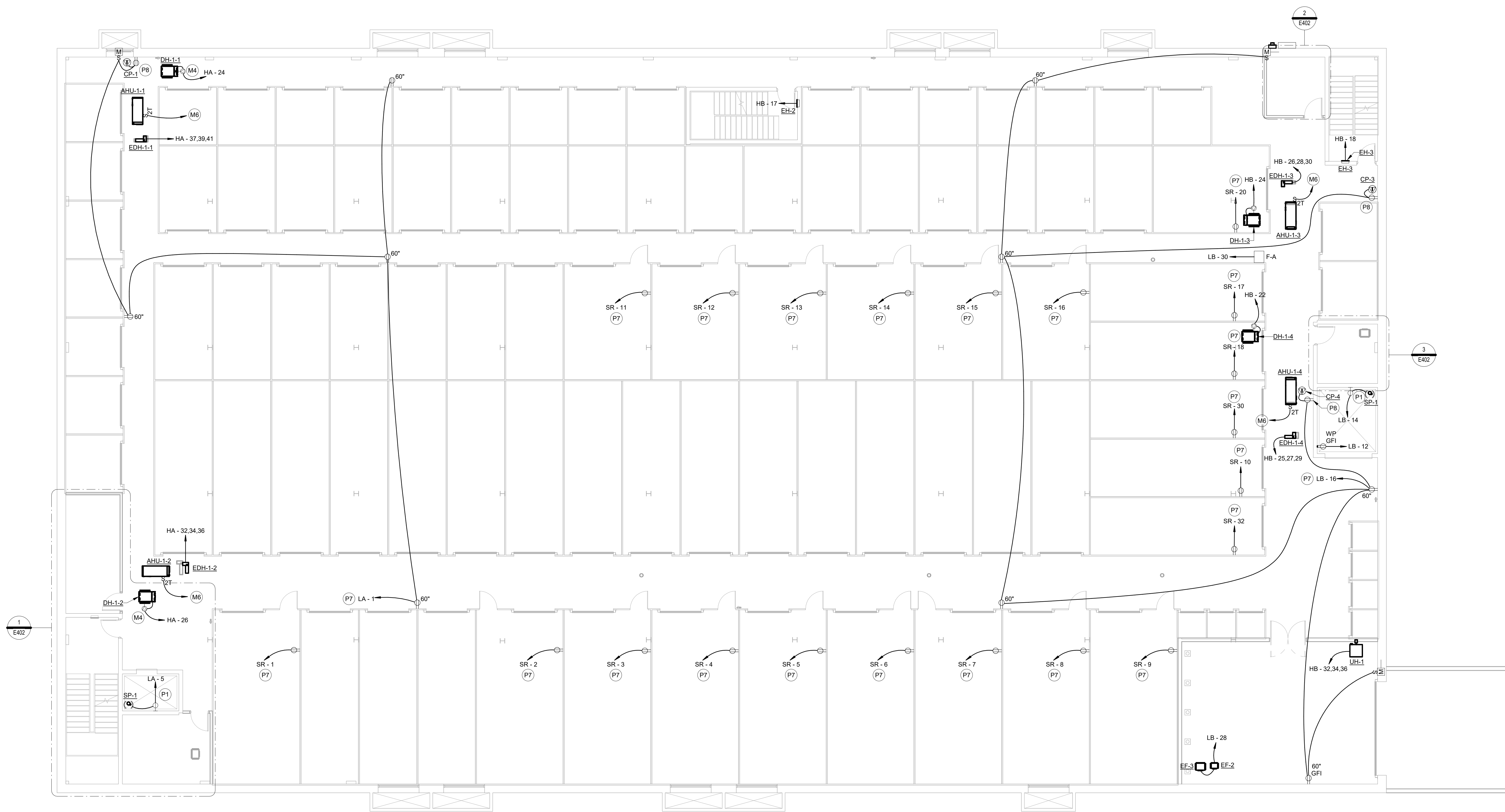
Scale 1/8" = 1'-0"

ELECTRICAL SHEET NOTES - MECHANICAL

TAG	DESCRIPTION
M4	RECEPTACLE FOR PLUG-IN DEHUMIDIFIER. COORDINATE EXACT RECEPTACLE TYPE AND MOUNTING LOCATION IN FIELD WITH EQUIPMENT TO BE FURNISHED.
M6	PROVIDE POWER AND CONTROL WIRING IN CONDUIT TO ROOF MOUNTED "CU" UNIT AS REQUIRED BY EQUIPMENT MANUFACTURER.

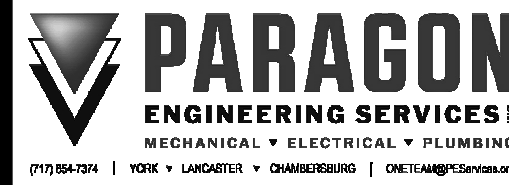
ELECTRICAL SHEET NOTES - POWER

TAG	DESCRIPTION
P1	COORDINATE EXACT MOUNTING LOCTIONS IN FIELD WITH EQUIPMENT TO BE PROVIDED.
P7	RECEPTACLE CIRCUIT HOME RUN TO PANEL AND BETWEEN RECEPTACLES SHALL BE #10.
P8	RECEPTACLE FOR PLUG-IN CONDENSATE PUMP (CP-1,2,3,4). COORDINATE EXACT MOUNTING LOCATION IN FIELD WITH EQUIPMENT TO BE PROVIDED.
P9	PROVIDE LOCKING COVERS (MULBERRY VERTICAL SELF-CLOSING COVER WITH LOCK HASPS) FOR ALL RECEPTACLES LOCATED IN STORAGE AREA CORRIDORS AND AREAS OPEN TO THE GENERAL CUSTOMERS. COORDINATE EXACT REQUIREMENTS WITH OWNER IN FIELD.



FIRST FLOOR PLAN - POWER P9
1/8" = 1'-0"

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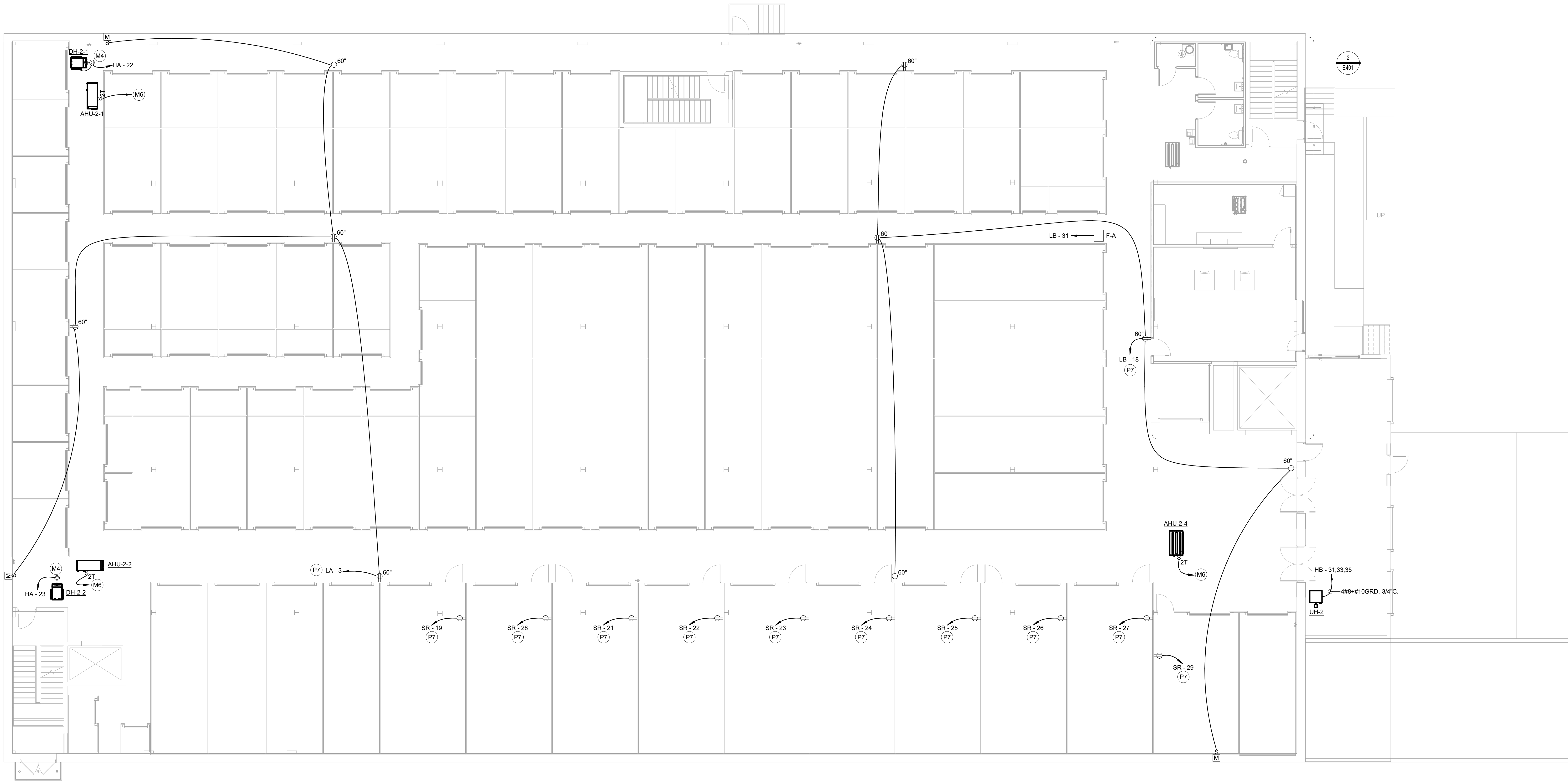
StorageMart at York
Creek (Building 5)

470 W College Ave, York, PA 17401

SECOND FLOOR PLAN - POWER	
Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	DJ
Checked By	JLS
E202	
Scale	1/8" = 1'-0"

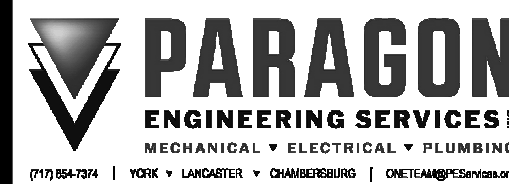
ELECTRICAL SHEET NOTES - MECHANICAL	
TAG	DESCRIPTION
M4	RECEPTACLE FOR PLUG-IN DEHUMIDIFIER. COORDINATE EXACT RECEPTACLE TYPE AND MOUNTING LOCATION IN FIELD WITH EQUIPMENT TO BE FURNISHED.
M6	PROVIDE POWER AND CONTROL WIRING IN CONDUIT TO ROOF MOUNTED "CU" UNIT AS REQUIRED BY EQUIPMENT MANUFACTURER.

ELECTRICAL SHEET NOTES - POWER	
TAG	DESCRIPTION
P7	RECEPTACLE CIRCUIT HOME RUN TO PANEL AND BETWEEN RECEPTACLES SHALL BE #10.
P9	PROVIDE LOCKING COVERS (MULBERRY VERTICAL SELF-CLOSING COVER WITH LOCK HASPS) FOR ALL RECEPTACLES LOCATED IN STORAGE AREA CORRIDORS AND AREAS OPEN TO THE GENERAL CUSTOMERS. COORDINATE EXACT REQUIREMENTS WITH OWNER IN FIELD.



1 SECOND FLOOR PLAN - POWER (P9)
1/8" = 1'-0"

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StorageMart at York Creek (Building 5)

470 W College Ave, York, PA 17401

THIRD FLOOR PLAN - POWER

Project Number1714-24-001

DateMAY 5, 2025

Drawn ByDJ

Checked ByJLS

E203

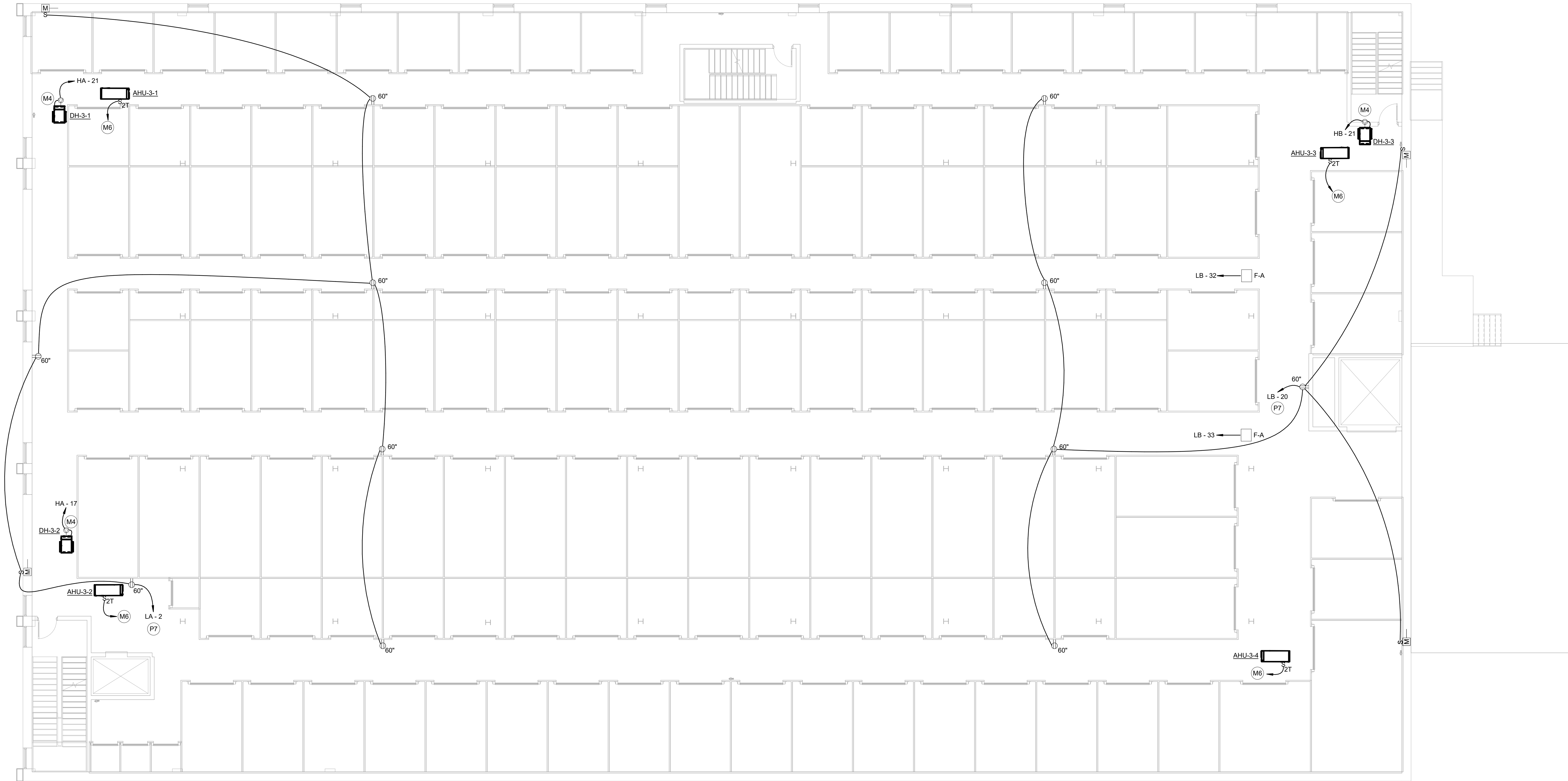
Scale1/8" = 1'-0"

ELECTRICAL SHEET NOTES - MECHANICAL

TAG	DESCRIPTION
M4	RECEPTACLE FOR PLUG-IN DEHUMIDIFIER. COORDINATE EXACT RECEPTACLE TYPE AND MOUNTING LOCATION IN FIELD WITH EQUIPMENT TO BE FURNISHED.
M6	PROVIDE POWER AND CONTROL WIRING IN CONDUIT TO ROOF MOUNTED "CU" UNIT AS REQUIRED BY EQUIPMENT MANUFACTURER.

ELECTRICAL SHEET NOTES - POWER

TAG	DESCRIPTION
P7	RECEPTACLE CIRCUIT HOME RUN TO PANEL AND BETWEEN RECEPTACLES SHALL BE #10.
P9	PROVIDE LOCKING COVERS (MULBERRY VERTICAL SELF-CLOSING COVER WITH LOCK HASPS) FOR ALL RECEPTACLES LOCATED IN STORAGE AREA CORRIDORS AND AREAS OPEN TO THE GENERAL CUSTOMERS. COORDINATE EXACT REQUIREMENTS WITH OWNER IN FIELD.

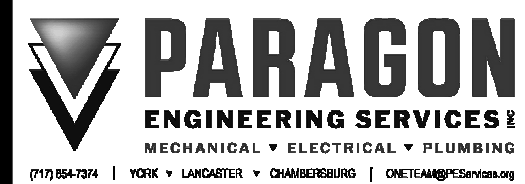


1 THIRD FLOOR PLAN - POWER P9

1/8" = 1'-0"

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No.	Date	Description
1	2025-08-11	CEILING AND GARAGE CHANGES



StorageMart at York Creek (Building 5)

470 W College Ave, York, PA 17401

FIRST FLOOR PLAN - SYSTEMS

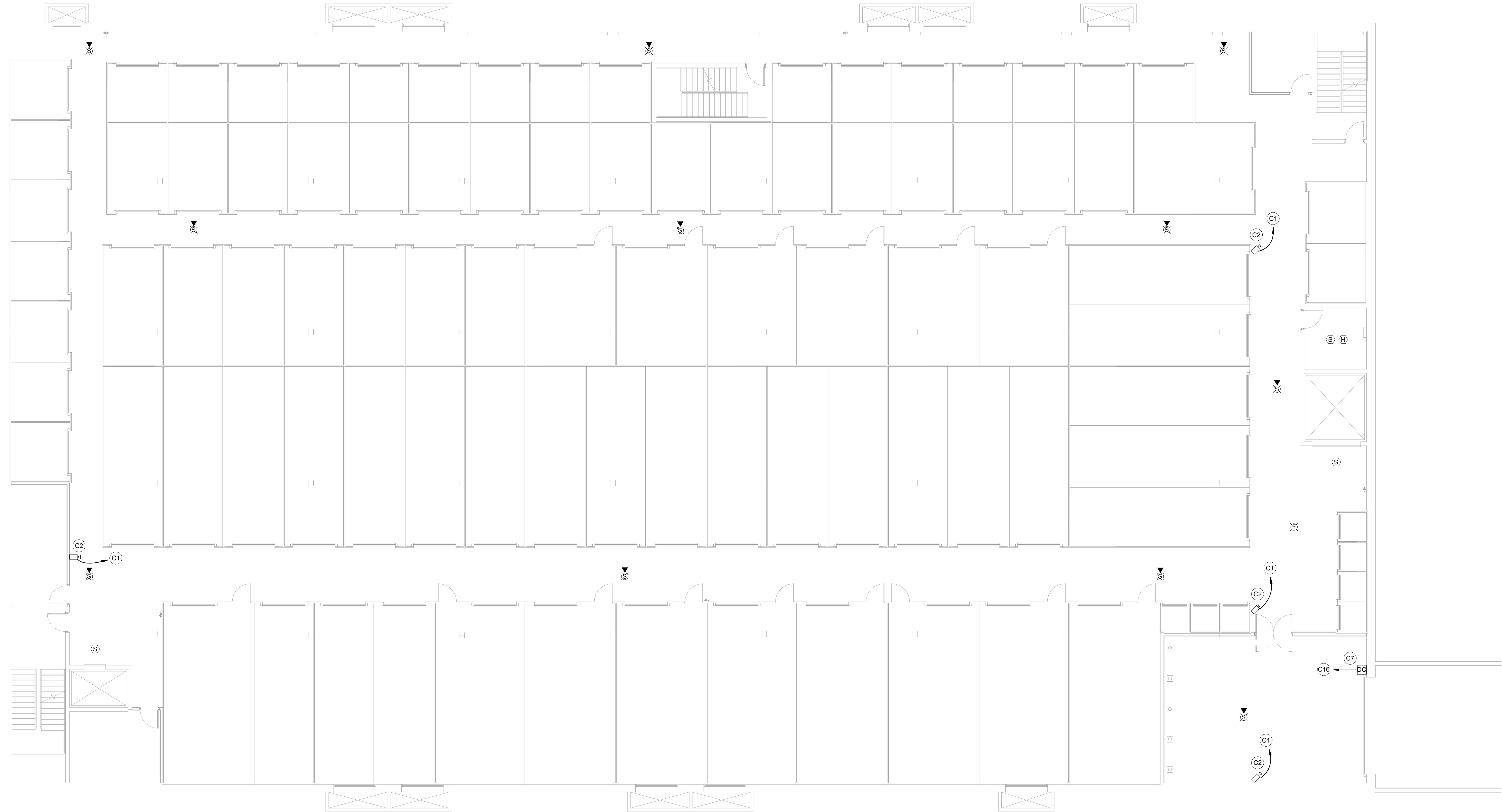
Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	DJ
Checked By	JLS

E301

Scale 1/8" = 1'-0"

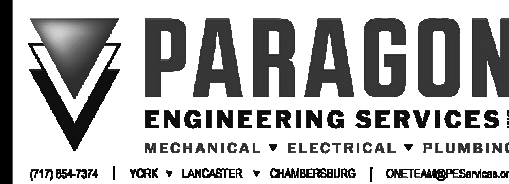
ELECTRICAL SHEET NOTES - COMMUNICATIONS

TAG	DESCRIPTION
C1	PROVIDE A CAT 6 DATA CABLE FROM CCTV CAMERA TO CCTV PATCH PANEL IN CCTV / DATA EQUIPMENT CABINET LOCATED IN SECOND FLOOR OFFICE AREA. RUN WIRING EXPOSED IN CORRIDORS AT UNDERSIDE OF FLOOR SLAB AND TRHU CHASES AND CONDUITS BETWEEN FLOORS. MAXIMUM CABLE LENGTH NOT TO EXCEED 330'. NO EXPOSED WIRING WILL BE ALLOWED BELOW 10'-0" A.F.F.
C2	PROVIDE A CEILING PENDANT MOUNTED INDOOR CAMERA - UNV MODEL #IPC3615SS-ADF28(4)K-11. EXACT COVERAGE AREA AND AIMING REQUIREMENTS TO BE VERIFIED WITH OWNER IN FIELD.
C7	ACCESS CONTROL SYSTEM DOOR CONTACTS FOR MONITORING OVERHEAD DOOR.
C16	CONNECT TO ACCESS CONTROL SYSTEM CONTROL PANEL LOCATED IN SECOND FLOOR OFFICE AREA. PROVIDE WIRING AS REQUIRED BY SYSTEM MANUFACTURER IN A 1/2" C. TO ABOVE ACCESSIBLE CEILING OR TO 10' A.F.F. IN AREAS WITH EXPOSED CONSTRUCTION.



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

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StorageMart at York Creek (Building 5)

470 W College Ave, York, PA 17401

THIRD FLOOR PLAN - SYSTEMS

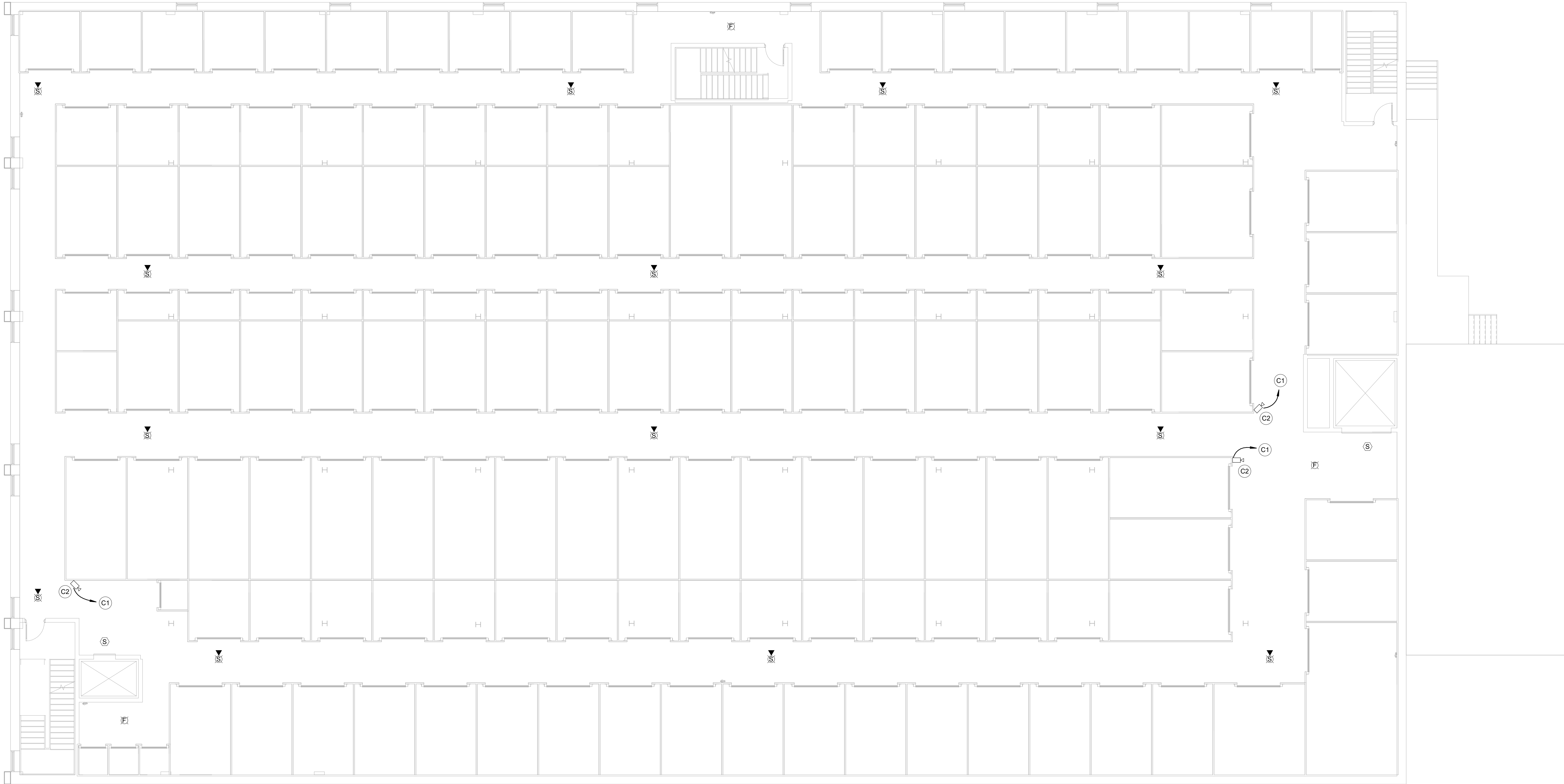
Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	DJ
Checked By	JLS

E303

Scale1/8" = 1'-0"

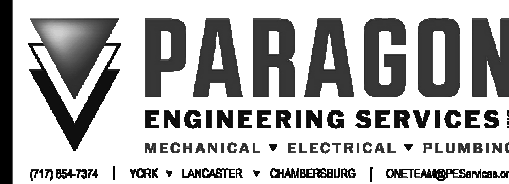
ELECTRICAL SHEET NOTES - COMMUNICATIONS

TAG	DESCRIPTION
C1	PROVIDE A CAT 6 DATA CABLE FROM CCTV CAMERA TO CCTV PATCH PANEL IN CCTV / DATA EQUIPMENT CABINET LOCATED IN SECOND FLOOR OFFICE AREA. RUN WIRING EXPOSED IN CORRIDORS AT UNDERSIDE OF FLOOR SLAB AND TRHU CHASES AND CONDUITS BETWEEN FLOORS. MAXIMUM CABLE LENGTH NOT TO EXCEED 330'. NO EXPOSED WIRING WILL BE ALLOWED BELOW 10'-0" A.F.F.
C2	PROVIDE A CEILING PENDANT MOUNTED INDOOR CAMERA - UNV MODEL #IPC3615SS-ADF28(4)K-1. EXACT COVERAGE AREA AND AIMING REQUIREMENTS TO BE VERIFIED WITH OWNER IN FIELD.



1
THIRD FLOOR PLAN - SYSTEMS
1/8" = 1'-0"

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StorageMart at York
Creek (Building 5)

470 W College Ave, York, PA 17401

FOURTH FLOOR
PLAN - SYSTEMS

Project Number1714-24-001

DateMAY 5, 2025

Drawn ByDJ

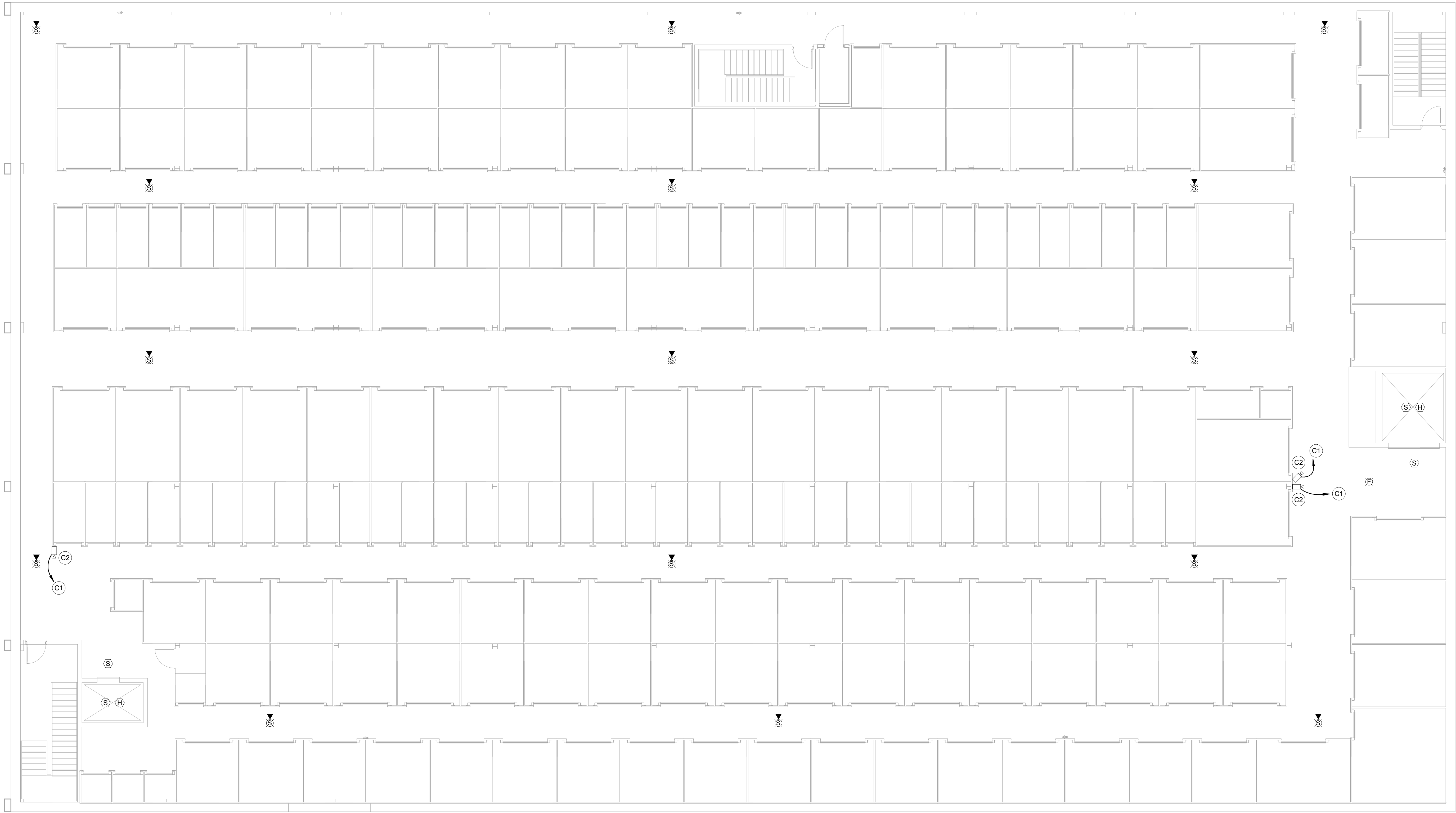
Checked ByJLS

E304

Scale1/8" = 1'-0"

ELECTRICAL SHEET NOTES - COMMUNICATIONS

TAG	DESCRIPTION
C1	PROVIDE A CAT 6 DATA CABLE FROM CCTV CAMERA TO CCTV PATCH PANEL IN CCTV / DATA EQUIPMENT CABINET LOCATED IN SECOND FLOOR OFFICE AREA. RUN WIRING EXPOSED IN CORRIDORS AT UNDERSIDE OF FLOOR SLAB AND TRHU CHASES AND CONDUITS BETWEEN FLOORS. MAXIMUM CABLE LENGTH NOT TO EXCEED 330'. NO EXPOSED WIRING WILL BE ALLOWED BELOW 10'-0" A.F.F.
C2	PROVIDE A CEILING PENDANT MOUNTED INDOOR CAMERA - UNV MODEL #IPC3615SS-ADF28(4)K-1. EXACT COVERAGE AREA AND AIMING REQUIREMENTS TO BE VERIFIED WITH OWNER IN FIELD.



① FOURTH FLOOR PLAN - SYSTEMS
1/8" = 1'-0"



ELECTRICAL SHEET NOTES - LIGHTING	
TAG	DESCRIPTION
L5	CONNECT TO "A1" TYPE LIGHT FIXTURE IN STAIRWELL ON LEVEL BELOW.
L6	CONNECT LIGHTING CIRCUIT THRU LIGHTING CONTROL PANEL (LCP) LOCATED IN ELECTRICAL EQUIPMENT ROOM ON FIRST FLOOR. LIGHTS TO BE CONTROLLED BY PHOTOCELL ONLY.
L6	LIGHTING CIRCUIT HOME RUN TO PANEL AND BETWEEN LIGHT FIXTURES SHALL BE #10.
L14	CONNECT LIGHTING CIRCUIT THRU LIGHTING CONTROL PANEL (LCP) LOCATED IN ELECTRICAL EQUIPMENT ROOM ON FIRST FLOOR. LIGHTS TO BE CONTROLLED BY PHOTOCELL AND TIMELOCK.

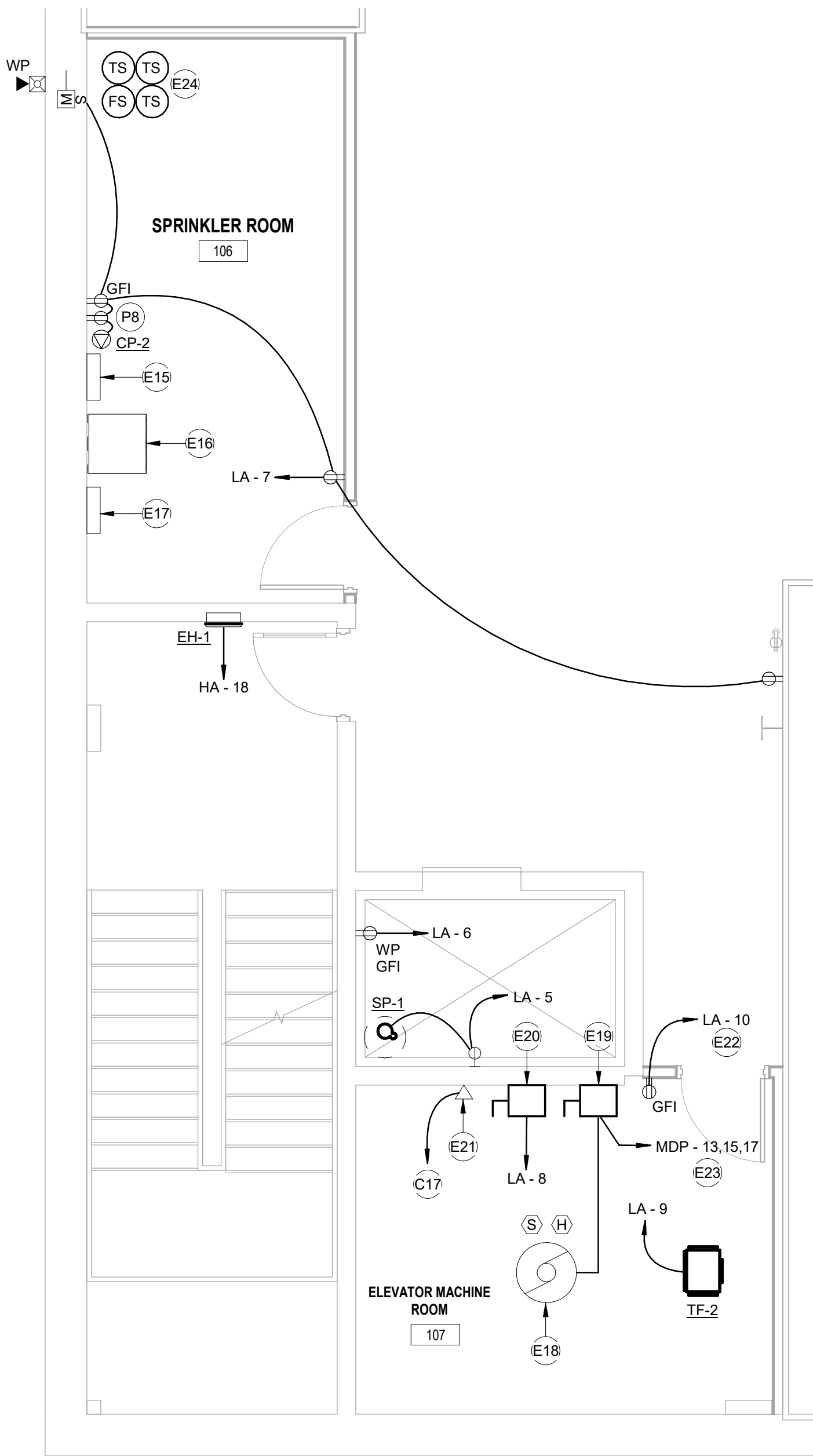


ELECTRICAL SHEET NOTES - POWER	
TAG	DESCRIPTION
P2	RECEPTACLE AND TV OUTLET FOR WALL MOUNTED MONITOR. MOUNT AT 72" A.F.F., COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER IN FIELD.
P3	MOUNT RECEPTACLE AND DATA OUTLET UNDER COUNTER IN CASEWORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF OUTLETS WITH OWNER IN FIELD PRIOR TO START OF CONSTRUCTION.
P4	PROVIDE A 1" CONDUIT FROM DATA OUTLET TO I.T. EQUIPMENT RACK/AC LOCATION IN RECEPTION, STUDY/CONDUITS.
P5	POWER OUTLETS FOR DATA / CCTV EQUIPMENT CABINET. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHT WITH OWNER IN FIELD.

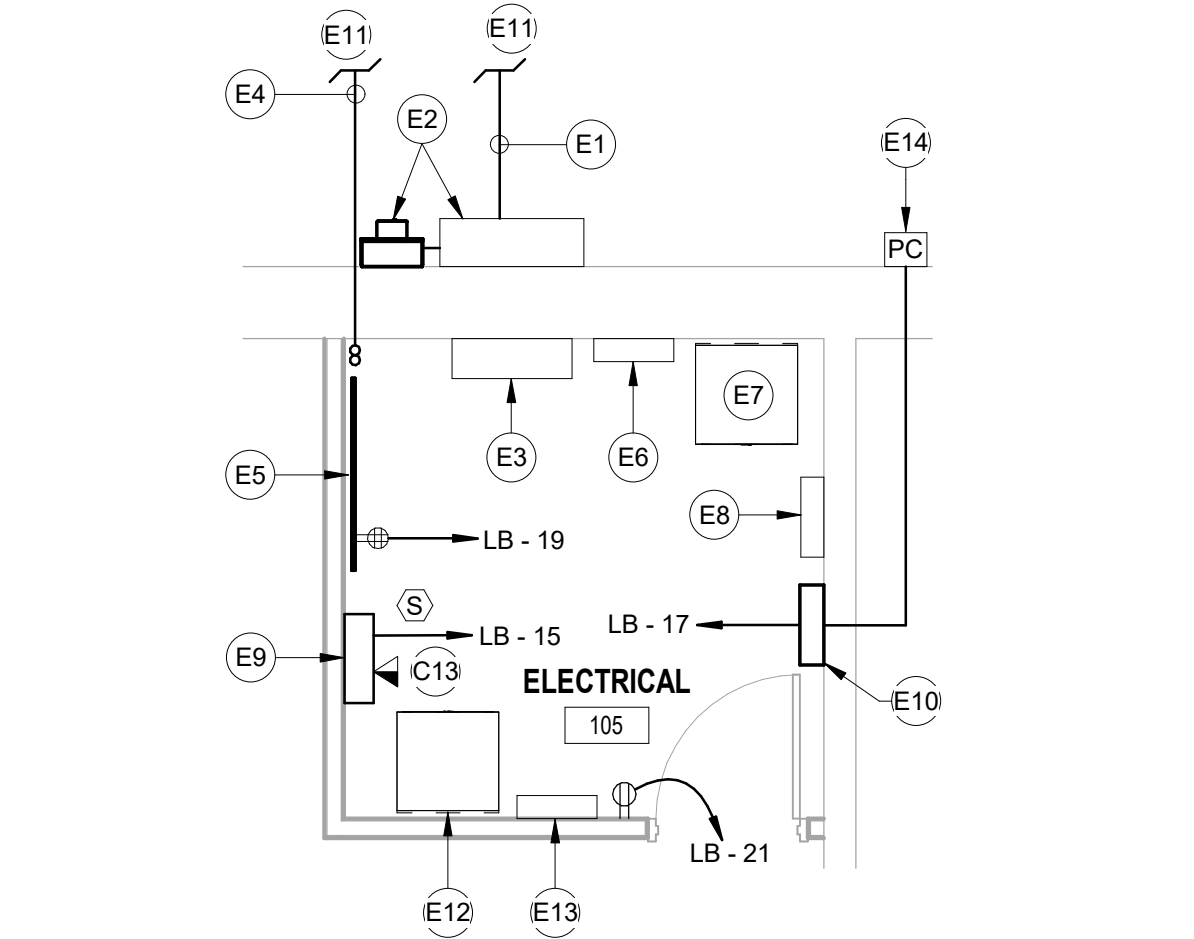
ELECTRICAL SHEET NOTES - MECHANICAL	
TAG	DESCRIPTION
M6	PROVIDE POWER AND CONTROL WIRING IN CONDUIT TO ROOF MOUNTED "CU" UNIT AS REQUIRED BY EQUIPMENT MANUFACTURER.
M8	30A-2P+SN-NF-240V-NEMA-1 DISCONNECT SWITCH.



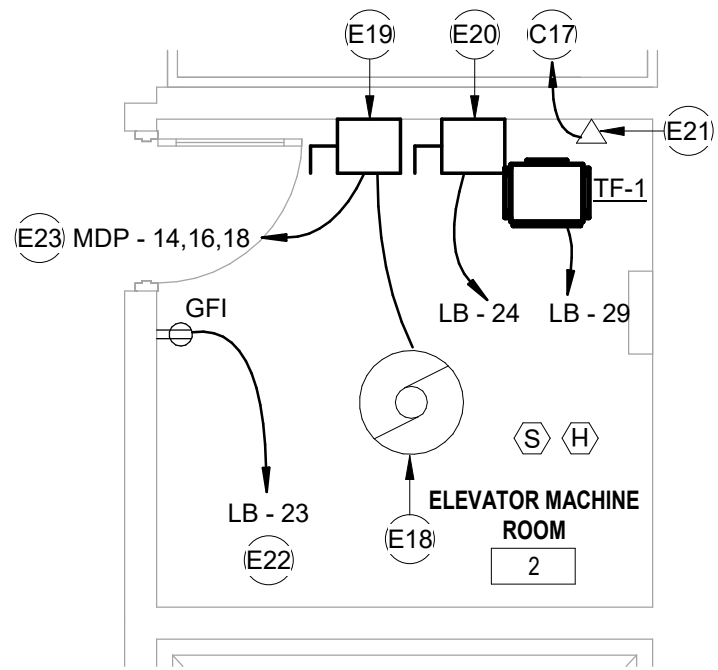
ELECTRICAL SHEET NOTES - COMMUNICATIONS	
TAG	DESCRIPTION
C1	PROVIDE A CAT 6 DATA CABLE FROM CCTV CAMERA TO CCTV PATCH PANEL. PROVIDE EQUIPMENT CABINET LOCATED IN SECOND FLOOR OFFICE AREA. RUN WIRING EXPOSED IN CORRIDORS AT UNDERSIDE OF FLOOR SLAB AND TRU/ CHAS AND CONDUITS BETWEEN FLOORS. MAXIMUM CABLE LENGTH NOT TO EXCEED 330'. NO EXPOSED WIRING WILL BE ALLOWED BELOW 10'-0" A.F.F.
C2	CEILING/CEILING AREA UNMOUNTED INDOOR CAMERA - UNIV. MODEL: IPC3615SS-ADF28/KJK1. EXACT COVERAGE AREA AND AIMING REQUIREMENTS TO BE VERIFIED WITH OWNER IN FIELD.
C4	PROVIDE A WALL MOUNTED EXTERIOR WEATHERPROOF/FANDAN RESISTANT CAMERA - UNIV. MODEL: IPC3615SS-ADF28/KJK1 EXACT COVERAGE AREA AND AIMING REQUIREMENTS TO BE VERIFIED WITH OWNER IN FIELD.
C5	WALL MOUNTED EXTERIOR FACE PROXIMITY READER AND KEY PAD. MODEL: IP-640 PATAGONIA PROXIMITY READER. CONNECT TO ACCESS CONTROL SYSTEM CONTROL PANEL LOCATED IN SECOND FLOOR OFFICE AREA.
C6	ACCESS CONTROL SYSTEM DOOR CONTACTS FOR MONITORING MAIN DOOR.
C7	ACCESS CONTROL SYSTEM DOOR CONTACTS FOR MONITORING OVERHEAD DOOR.
C8	FIRE ALARM SYSTEM KNOX BOX WITH TAMPER SWITCH. CONNECT TO FIRE ALARM CONTROL PANEL AND SET TO "TROUBLE" SIGNAL. UPON ACTIVATION, 24"x24"x4" RECESSED WALL MOUNTED PULLBOX WITH 6" P. CONDUITS. RUN ONE CONDUIT TO EACH FLOOR FOR INSTALLATION OF CABLES. STUBBED OUT AT EACH FLOOR. SEE REMARKS FOR FLOOR PLAN.
C9	PROVIDE EQUIPMENT CABINET WITH THE FOLLOWING EQUIPMENT: a. DATA WIRING - 24 PORT CAT 6 PATCH PANEL, b. VOICE WIRING - 24 PORT CAT 6 PATCH PANEL, c. CCTV WIRING - 24 PORT CAT 6 PATCH PANEL, d. CCTV CAMERA SYSTEM ETHERNET SWITCHES, e. CCTV CAMERA SYSTEM NETWORK VIDEO RECORDER (NVR)
C10	PROVIDE 4 CAT 6 CABLES (2 DATA) FROM OUTLET TO PATCH PANEL MOUNTED IN EQUIPMENT CABINET.
C13	PROVIDE 2 CAT 6 CABLES (2 DATA) FROM OUTLET TO PATCH PANEL MOUNTED IN EQUIPMENT CABINET.
C14	PROVIDE THE FOLLOWING CCTV SYSTEM EQUIPMENT: a. NETWORK VIDEO RECORDER - UNIV. MODEL: INVR504-SERIES - 4CHDS-32 CHANNEL OR EQUAL, b. ETHERNET SWITCH - UNIV. MODEL: INWS2010-16G12S24-POE-IN OR EQUAL - PROVIDE 5 SWITCHES
C15	PROVIDE 24 HOUR PROTECTED AND UNPROTECTED ACCESS TO THE EQUIPMENT CABINET. COORDINATE EQUIPMENT TYPE AND INSTALLATION REQUIREMENTS WITH GENERAL CONTRACTOR / OWNER IN FIELD. SEE "SINGLE DOOR - ELECTRIC DOOR STRIKE" DETAIL ON SHEET E004.
C16	CONNECT TO ACCESS CONTROL SYSTEM CONTROL PANEL LOCATED IN SECOND FLOOR OFFICE AREA. PROVIDE WIRING AS REQUIRED BY SYSTEM MANUFACTURER. N/A 1/20'. TO ADD ACCESS CONTROL SYSTEMS TO AREAS WITH EXISTING CONDUIT.
C17	PROVIDE 1 CAT 6 CABLE (VOICE) FROM OUTLET TO PATCH PANEL MOUNTED IN EQUIPMENT CABINET LOCATED IN SECOND FLOOR OFFICE AREA.



1 ENLARGED FLOOR PLAN - POWER (ELEV. NO. 1)
1/4" = 1'-0"



2 ENLARGED ELECTRICAL ROOM 210 - POWER
1/4" = 1'-0"



3 ELEVATOR ELECTRICAL ROOM - POWER (ELEV. NO. 2)
1/4" = 1'-0"

ELECTRICAL SHEET NOTES - EQUIPMENT	
TAG	DESCRIPTION
E1	UNDERGROUND SECONDARY POWER COMPANY SERVICE FEEDER FROM PAD MOUNTED TRANSFORMER. SEE "ONE LINE DIAGRAM" ON SHEET E004 FOR REQUIREMENTS.
E2	POWER COMPANY METERING CABINET AND METER.
E3	MAIN DISTRIBUTION PANEL "MDP".
E4	2@4" PVC SCH 40 CONDUITS FOR TELEPHONE / CATV SERVICE CABLE.
E5	3/4" X 4" X 4" PLYWOOD BACKBOARD FOR TELEPHONE / CATV SERVICE TERMINATION AND DISTRIBUTION EQUIPMENT.
E6	PANEL "HB".
E7	TRANSFORMER "TLB".
E8	PANEL "LB".
E9	FIRE ALARM SYSTEM CONTROL PANEL (FACP).
E10	LIGHTING CONTROL PANEL (LCP) WITH TIMECLOCK, PHOTOCELL, AND 8 RELAYS (ACUITY MODEL #ARPINTEL8-8FCR-MVOLT-HLK-SM-DTC) FOR CONTROL OF EXTERIOR BUILDING, SITE, AND SIGNAGE.
E11	SEE SHEET E501 FOR CONTINUATION.
E12	TRANSFORMER "TSR".
E13	PANEL "SR".
E14	EXTERIOR WALL MOUNTED PHOTOCELL. MOUNT AS HIGH AS POSSIBLE. COORDINATE EXACT MOUNTING LOCATION WITH OWNER IN FIELD.
E15	PANEL "HA".
E16	TRANSFORMER "TLA".
E17	PANEL "LA".
E18	EXISTING 25HP-480V-3PH ELEVATOR.
E19	100/80A-3P-3F-NEMA-1 DISCONNECT SWITCH.
E20	30A-1P-SN-NF-240V-NEMA-1 DISCONNECT FOR ELEVATOR CAB LIGHTING AND CONTROL CIRCUIT.
E21	OUTLET FOR TELEPHONE CONNECTION.
E22	CONNECT POWER CIRCUIT AHEAD OF ANY SWITCHING.
E23	SEE "ONE LINE DIAGRAM" ON SHEET E004 FOR WIRING REQUIREMENTS.
E24	CONTRACTOR SHALL VERIFY AND COORDINATE EXACT QUANTITY AND LOCATION OF ALL TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION CONTRACTOR.

ELECTRICAL SHEET NOTES - COMMUNICATIONS	
TAG	DESCRIPTION
C13	PROVIDE 2 CAT 6 CABLES (2 DATA) FROM OUTLET TO PATCH PANEL MOUNTED IN EQUIPMENT CABINET.
C17	PROVIDE 1 CAT 6 CABLE (VOICE) FROM OUTLET TO PATCH PANEL MOUNTED IN EQUIPMENT CABINET LOCATED IN SECOND FLOOR OFFICE AREA.

ELECTRICAL SHEET NOTES - POWER	
TAG	DESCRIPTION
P8	RECEPTACLE FOR PLUG-IN CONDENSATE PUMP (CP-1.2.3.4). COORDINATE EXACT MOUNTING LOCATION IN FIELD WITH EQUIPMENT TO BE PROVIDED.

ARCHITECTS

HOFMANN ASSOCIATES, INC.

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No.	Date	Description
1	2025-08-11	CEILING AND GARAGE CHANGES

PARAGON

ENGINEERING SERVICES I

MECHANICAL • ELECTRICAL • PLUMBING

PROFESSIONAL • DESIGN • CONSTRUCTION • MAINTENANCE

StorageMart at York Creek (Building 5)

470 W College Ave, York, PA 17401

ENLARGED FLOOR PLANS

Project Number1714-24-001

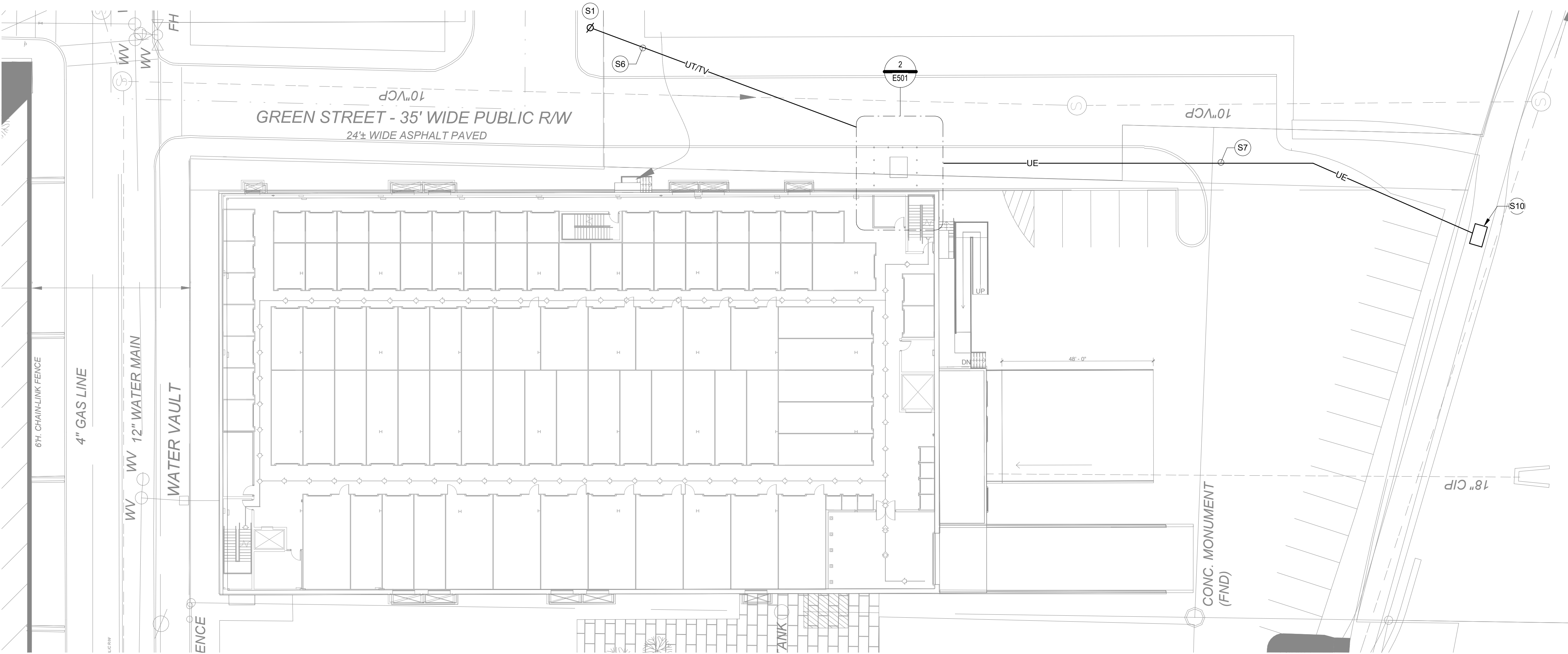
DateMAY 5, 2025

Drawn ByDJ

Checked ByJLS

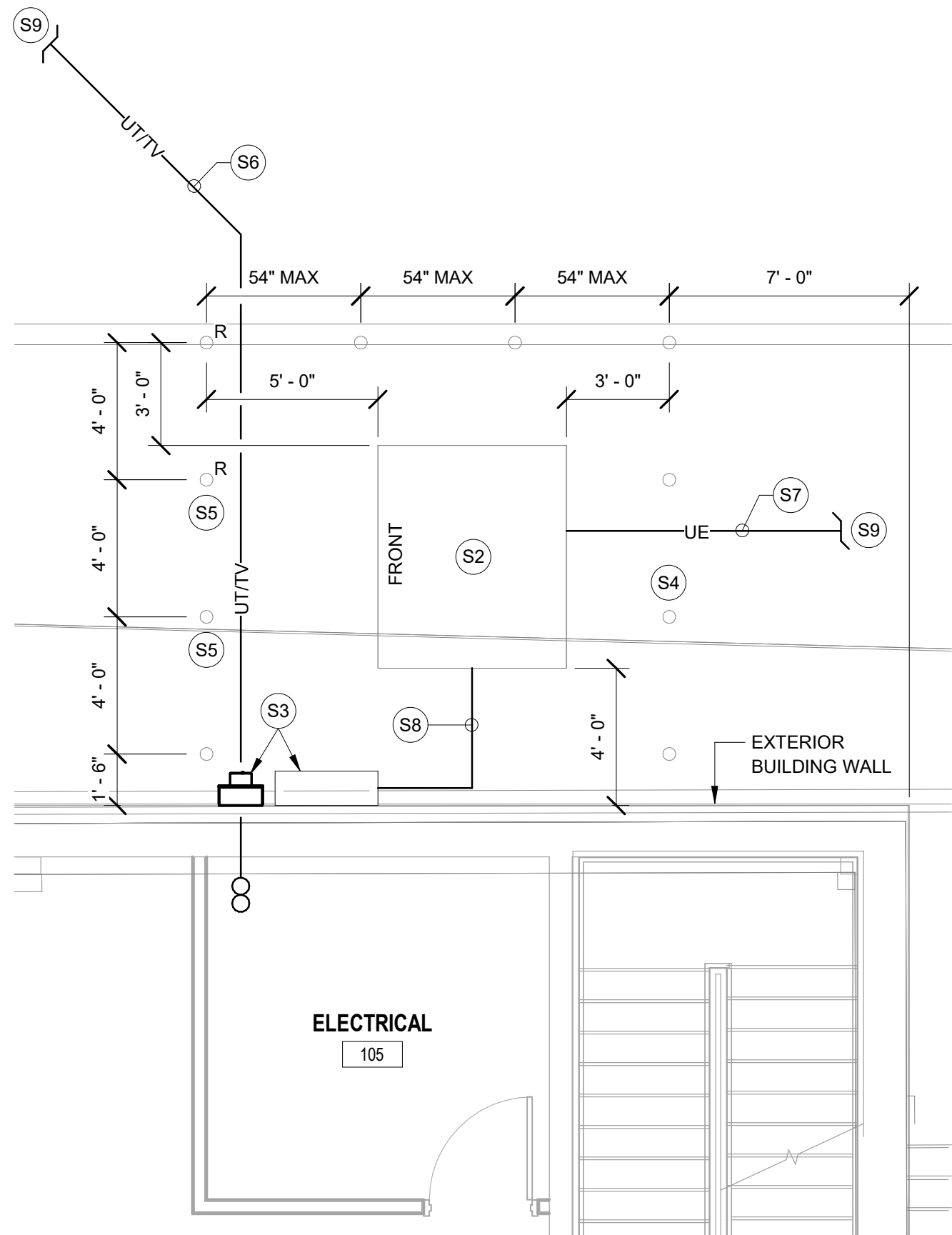
E402

Scale1/4" = 1'-0"



1 OVERALL SITE PLAN - ELECTRICAL

1" = 20'-0"



2 POWER COMPANY PAD / VAULT MOUNTED TRANSFORMER DETAIL

1/4" = 1'-0"

ELECTRICAL SHEET NOTES - SITE	
TAG	DESCRIPTION
S1	EXISTING POWER COMPANY SERVICE POLE TO REMAIN.
S2	POWER COMPANY PAD / VAULT MOUNTED TRANSFORMER WITH PROTECTIVE BOLLARDS. CONTRACTOR SHALL PROVIDE AND INSTALL CONCRETE VAULT AND PROTECTIVE BOLLARDS AS REQUIRED BY POWER COMPANY.
S3	POWER COMPANY METERING CABINET AND METER BASE TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR AS REQUIRED BY POWER COMPANY.
S4	PERMANENT TYPE PROTECTIVE BOLLARDS BY ELECTRICAL CONTRACTOR AS REQUIRED BY POWER COMPANY. TYPICAL FOR SEVEN(7).
S5	REMOVABLE TYPE PROTECTIVE BOLLARDS BY ELECTION CONTRACTOR AS REQUIRED BY POWER COMPANY.
S6	2@4" PVC SCH 80 CONDUITS BY ELECTRICAL CONTRACTOR FOR TELEPHONE AND CATV SERVICE CABLES BY UTILITIES. - 36" B.F.G.
S7	2@5" PVC SCH 80 CONDUITS BY ELECTRICAL CONTRACTOR FOR PRIMARY SERVICE CABLES BY POWER COMPANY - 36" B.F.G. START CONDUITS ON SERVICE POLE AT HEIGHT REQUIRED BY POWER COMPANY.
S8	UNDERGROUND SECONDARY SERVICE FEEDERS BY ELECTRICAL CONTRACTOR - 36" B.F.G. SEE "ONE-LINE DIAGRAM" ON SHEET E004 FOR EXACT REQUIREMENTS.
S9	SEE "OVERALL SITE PLAN - ELECTRICAL" ON THIS SHEET FOR CONTINUATION.
S10	POWER COMPANY PRIMARY SWITCH. VERIFY AND COORDINATE EXACT LOCATION WITH POWER COMPANY AND OWNER IN FIELD PRIOR TO START OF CONSTRUCTION.

H

A

ARCHITECTS

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Description

Date

No.

PARAGON

ENGINEERING SERVICES I

MECHANICAL • ELECTRICAL • PLUMBING

PROJECTS | NEW • RENOVATION | DEMOLITION | OUTDOOR LIVING

StorageMart at York
Creek (Building 5)

470 W College Ave, York, PA 17401

SITE PLAN	
Project Number	1714-24-001
Date	MAY 5, 2025
Drawn By	DJ
Checked By	JLS
E501	
Scale	As Indicated