

ABBREVIATIONS			ELECTRICAL DEMOLITION NOTES			GENERAL ELECTRICAL CONSTRUCTION NOTES		
1P	ONE POLE	KVA	KILOVOLT AMPERE	1.	ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. AND FIRE PROTECTION DRAWINGS. REFER TO ELECTRICAL MOTOR WIRING SCHEDULE FOR DETAILED REQUIREMENTS.	1.	FOR LOCATIONS OF ALL MECHANICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT, REFER TO THE RESPECTIVE MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS. REFER TO ELECTRICAL MOTOR WIRING SCHEDULE FOR DETAILED REQUIREMENTS.	
2P	TWO POLE	KW	KILOWATT	2.	DEMOLITION/RELOCATIONS: EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND RELOCATIONS OF SERVICES, EQUIPMENT, AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.	2.	ALL DEVICE LOCATIONS SUCH AS RECEPTACLE, DATA JACK, TV JACK, AND FLOOR OUTLETS, ETC., ARE APPROXIMATE. FINAL LOCATIONS AND MOUNTING HEIGHTS SHALL BE FIELD LOCATED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL ALL DEVICES AT LOCATIONS AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COMPENSATION.	
3P	THREE POLE	LA	LIGHTNING ARRESTOR	3.	PRIOR TO DEMOLITION CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED. SHOULD THE OWNER OPT TO KEEP ANY MATERIALS, THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE, ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE, AND BE DISPOSED OF IN A LEGAL MANNER.	3.	ALL BRANCH WIRING SHALL BE MINIMUM 3/4"-2#12+1#12GND. MC-CABLE MAY BE USED IN APPLICATIONS AND AREAS WHERE ALLOWED BY SPECIFICATIONS.	
#	PHASE	LLC	WIRE TO LOCAL LIGHTING CIRCUIT	4.	DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO THE POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.	4.	ALL LIGHTING WIRING FOR LED DIMMABLE LIGHTING BRANCH CIRCUITS SHALL BE 2#12+1#12GND +2#16 0-10V IN 3/4" (ALL 600V RATED WIRING) OR MC-CBS CABLE WHERE ALLOWABLE IN THE SPECIFICATION	
A	AMPERE	LSI	LONG TIME, SHORT TIME, AND INSTANTANEOUS PROTECTION	5.	MAINTAIN EXISTING UTILITIES INDICATED OR WHERE REQUIRED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN SCHEDULED WITH THE OWNER.	5.	COORDINATE OCCUPANCY SENSOR AND SMOKE DETECTOR LOCATIONS WITH LIGHTING FIXTURES, SPRINKLERS, AIR DIFFUSERS, AND OTHER CEILING MOUNTED EQUIPMENT. COORDINATE WITH THE REFLECTED CEILING PLAN.	
AF	AMP FRAME	LSIG	LONG TIME, SHORT TIME, AND INSTANTANEOUS GROUND FAULT PROTECTION	6.	DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.	6.	ALL EQUIPMENT ON FIRE ALARM DRAWINGS ARE APPROXIMATE, FINAL LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT SHOWN, AT LOCATIONS AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COMPENSATION.	
AFB	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER	7.	REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.	7.	FOLLOW DIMENSIONS WHERE SHOWN, DO NOT SCALE DRAWINGS.	
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL	8.	PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.	8.	ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES AND STANDARDS.	
AT	AMP TRIP	MLO	MAIN LUGS ONLY	9.	PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.	9.	FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE UNLESS OTHERWISE NOTED. COORDINATE FUSE SIZES WITH THE MOTORS FURNISHED UNDER THE MECHANICAL, AND OTHER CONTRACTS.	
ATS	AUTOMATIC TRANSFER SWITCH	MO	MANUALLY OPERATED	10.	ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED BY OTHERS. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY, THEY SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ENGINEER FOR DIRECTIONS.	10.	RECEPTACLES, DATA JACKS AND OTHER FLUSH MOUNTED DEVICES MOUNTED ON OPPOSITE SIDES OF SAME WALL MUST BE STAGGERED IN SEPARATE JOISTS FOR ACOUSTICS. ALL LOCATIONS ON SHARED WALLS SHALL BE PROVIDED WITH SPECSAL SSP PUTTY PADS OR EQUAL ON EACH BACKBOX.	
AIC	AMPERE INTERRUPTING CAPACITY	(N)	NEW WORK OR EQUIPMENT	11.	EXTREME CARE SHALL BE EXERCISED FOR ALL EXISTING ITEMS THAT ARE TO REMAIN IN SERVICE UNTIL NEW ITEMS ARE INSTALLED FOR THE SAME SERVICE. ALL SHUTDOWNS OF ANY SYSTEM SHALL BE COORDINATED WITH THE OWNER.	11.	DEVICES LOCATED IN FIRE RATED WALLS THAT ARE GREATER THAN 16 SQ/IN SHALL BE PROVIDED WITH SPECSAL SSP PUTTY PADS OR EQUAL ON EACH BACKBOX.	
BFC	BELOW FINISHED CEILING	NE	WIRED ON NORMAL EMERGENCY CIRCUIT	12.	ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO STARTING WORK.	12.	FIRE STOPPING: WHERE CONDUITS PENETRATE FIRE AND SMOKE BARRIERS INCLUDING WALLS, PARTITIONS, FLOORS, AND CEILINGS, INSTALL FIRE-STOPPING AT PENETRATIONS AFTER CABLES ARE INSTALLED. REFER TO DWG E601 FOR FURTHER DETAILS.	
C	CONDUIT	NIC	NOT IN CONTRACT	13.	ALL DEVICES SHOWN TO BE REMOVED AND REINSTALLED (RAR) OR TO BE RELOCATED (REL), SHALL BE PROTECTED AND STORED BY THE CONTRACTOR DURING CONSTRUCTION, AND THEN SHALL BE REINSTALLED AFTER CEILING OR ABOVE CEILING WORK IS COMPLETED.	13.	MATERIALS FOR FIRE STOPPING SHALL BE UL LISTED AND LABELED AND FM APPROVED FOR FIRE RATINGS CONSISTENT WITH PENETRATED BARRIERS. SLEEVES SHALL BE SCHEDULE 40, WELDED, BLACK STEEL PIPE SLEEVES. SIZES AS REQUIRED FOR EQUIVALENT AREA AS THE WIREWAYS. SEALING FITTINGS SHALL BE SUITABLE FOR SEALING CABLES IN SLEEVES OR CORE DRILLED HOLES. TWO-PART SEALANT: FORMED-IN-PLACE SEALANT FIRE-RESISTANT JOINT SEALERS.	
C/B	CIRCUIT BREAKER	PDU	POWER DISTRIBUTION UNIT	14.	CONTRACTOR SHALL IDENTIFY, CLEARLY TAG/MARK, RESUPPORT FROM BUILDING STRUCTURE, AND PROTECT THE FOLLOWING EXISTING WIRING DURING DEMOLITION AND NEW CONSTRUCTION IN THE RENOVATION AREAS: A. ALL WIRING ASSOCIATED WITH EXISTING TO REMAIN MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR TO IDENTIFY ALL MECHANICAL EQUIPMENT TO REMAIN. B. ALL TELEPHONE AND DATA CABLENG AND DEVICES SHOWN TO BE REMOVED SHALL BE REMOVED BACK TO SOURCE. ALL OTHER TELEPHONE AND DATA CABLEING SHALL BE RESUPPORTED FROM STRUCTURE, AND PROTECTED DURING CONSTRUCTION. C. ALL LOW-VOLTAGE AND POWER WIRING AND CABLES ASSOCIATED WITH EQUIPMENT IN OTHER AREAS THAT IS TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION WITHOUT INTERRUPTION OF SERVICE, UNLESS SPECIFICALLY COORDINATED WITH OWNER MINIMUM 14-DAYS IN ADVANCE.	14.	UNLESS OTHERWISE NOTED, ALL INDOOR ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH, AND HOUSED IN, A NEMA 1 ENCLOSURE. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN NEMA 3R ENCLOSURE.	
CKT	CIRCUIT	PLC	PROGRAMMABLE LOGIC CONTROLLER	15.	CONTRACTOR IS RESPONSIBLE TO REPLACE ANY WIRING NOTED ABOVE, THAT IS DAMAGED OR REMOVED BY THE CONTRACTOR.	15.	COMMON NEUTRALS ARE NOT ACCEPTABLE.	
CT	CURRENT TRANSFORMER	PNL	PANEL	16.	CONTRACTOR IS RESPONSIBLE TO PATCH ALL HOLES OR OPENINGS IN EXISTING WALLS OR FLOOR AFTER DEMOLITION, INCLUDING EXISTING FIRE RATED WALLS, ABOVE AND BELOW CEILING, TO MAINTAIN INTEGRITY OF THE FIRE RATED WALLS. PATCH AND FINISH TO MATCH EXISTING FINISHES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED WALLS.	16.	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK.	
DWG	DRAWING	PT	POTENTIAL TRANSFORMER	17.	REFER TO MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR COMPLETE SCOPE OF EQUIPMENT TO BE DEMOLISHED. EC SHALL REMOVE ALL WIRING AND CONDUIT FOR DEMOLISHED MECHANICAL AND PLUMBING EQUIPMENT BACK TO SOURCE.	17.	PROVIDE MATCHING CORD AND PLUGS FOR ALL RECEPTACLES OTHER THAN STANDARD 20A DUPLEX RECEPTACLES.	
(E)	EXISTING WORK OR EQUIPMENT	PVC	POLYVINYL CHLORIDE CONDUIT			18.	PROVIDE FIBER BUSHINGS ON THE ENDS OF ALL CONDUIT STUBS.	
EC	ELECTRICAL CONTRACTOR	(R)	REMOVE			19.	FOR ANY CORE DRILLING FOR CONDUIT OR WIRE PENETRATIONS IN EXISTING CONCRETE PLANK CEILING, EXTREME CARE SHALL BE TAKEN.	
EO	ELECTRICALLY OPERATED	S ₃	THREE WAY SWITCH			20.	EC SHALL CUT AND PATCH ALL WALL OPENINGS TO ACCOMMODATE THE INSTALLATION OF NEW ELECTRICAL BACKBOXES, DEVICES, AND WIRING IN EXISTING WALLS. EC SHALL FISH WIRING IN EXISTING WALLS, AS REQUIRED.	
FA	FIRE ALARM	SS	SOFT START			21.	ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THEIR WORK TO AVOID INTERFERENCE WITH STRUCTURE, AND ALL EQUIPMENT ABOVE AND BELOW THE CEILING.	
FLA	FULL LOAD AMPS	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION			22.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE MOUNTINGS AND NUMBER OF FACES FOR THE EXIT SIGNS. THE LIGHTING FIXTURE SHOP DRAWING SUBMISSION SHALL REFLECT THIS COORDINATION.	
GC	GENERAL CONTRACTOR	TPP	TYPICAL			23.	CONTRACTOR MUST COORDINATE ROOMS NAMES ON THE PANEL SCHEDULES WITH THE FINAL ROOM NAMES, IN THE FIELD. ALL PANELS SHALL BE PROVIDED WITH TYPED PANEL SCHEDULE.	
GFI	GROUND FAULT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY			24.	PROVIDE FIBER BUSHINGS ON THE ENDS OF ALL CONDUIT STUBS.	
GND	GROUND	V	VOLT			25.	ALL OF THE NOTES UNDER THE "GENERAL NOTES" SHALL APPLY TO ALL OF THE ELECTRICAL DRAWINGS.	
GP	GENERAL PURPOSE	W	WATT			26.	ALL SWITCHES, RECEPTACLES, PANELBOARDS, FIRE ALARM PANELS, POWER SUPPLIES, DISCONNECTS, AND EQUIPMENT SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT.	
HP	HORSE POWER	WG	WIRE GUARD			27.	THESE DRAWINGS SHOW EXISTING CONDITIONS AT THE TIME OF DESIGN. ACTUAL FIELD CONDITIONS MAY CHANGE PRIOR TO CONSTRUCTION. ALL DISCREPANCIES AFFECTING THE COMPLETION OF WORK SHALL BE REPORTED TO ENGINEER FOR RESOLUTION.	
IAM	INDIVIDUAL ADDRESSABLE MODULE	WP	WEATHERPROOF			28.	CALL BEFORE YOU DIG. PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL - PENNSYLVANIA ONE CALL SYSTEM, INC.1-800-242-1776.	
IDF	INTERMEDIATE DISTRIBUTION FRAME	XFMR	TRANSFORMER			29.	ALL DEVICES/BOXES IN BLOCK WALLS SHALL HAVE MIN 3/4" (UNLESS OTHERWISE NOTED) FROM BOX TO ABOVE AN ADJACENT ACCESSIBLE CEILING.	
IG	ISOLATED GROUND	Y	WYE			30.	ALL EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH A LOCKABLE CAST ALUMINUM WHILE-IN-USE COVER.	
JB	JUNCTION BOX					31.	ALL SPARE CONDUITS SHALL BE PROVIDED WITH A PULL STRING.	
						32.	ALL NOTES ON THIS DRAWING APPLY TO ALL ELECTRICAL DRAWINGS.	

SYMBOL LEGEND			DRAWING LIST						
	WALL MOUNTED NOTIFICATION DEVICE, SPEAKER AND STROBE (MOUNT AT MIN 80" AFF OR MAX 96"AFF TO BOTTOM OF DEVICE). APPLIANCE SHALL HAVE CLEAR STROBE LENS WITH WHITE HOUSING MARKED "ALERT".		EMERGENCY LOCKDOWN PUSH BUTTON, BY SECURITY VENDOR. WIRED BY EC. INSTALL 1--GANG BACKBOX WITH 3/4" CONDUIT TO ABOVE CEILING WHERE INSTALLED IN NEW WALL, SURFACE METALLIC RACEWAY WHERE INSTALLED ON EXISTING WALL, MOUNT AT 48"AFF TO TOP OF BACKBOX. INSTALL 4#22 PLENUM RATED CABLE FROM DEVICE TO SECURITY EQUIPMENT IN BASEMENT ELECTRICAL ROOM.	E001	ELECTRICAL COVER SHEET	E001 ELECTRICAL COVER SHEET E05001 ELECTRICAL SITE DEMOLITION PLAN E0101 LIGHTING DEMOLITION PLANS E0201 POWER DEMOLITION PLANS E0301 FIRE/COMM DEMOLITION PLANS E0401 ELECTRICAL DEMOLITION SINGLE LINE DIAGRAM E05100 ELECTRICAL SITE NEW WORK PLAN E100 LIGHTING SCHEDULES E101 LIGHTINGS NEW WORK PLANS E201 POWER NEW WORK PLANS E301 FIRE/COMM NEW WORK PLANS E302 FIRE ALARM RISER DIAGRAM AND DETAILS E401 ELECTRICAL NEW WORK SINGLE LINE DIAGRAM E501 ELECTRICAL MOTOR WIRING SCHEDULE E502 ELECTRICAL PANEL SCHEDULES E601 ELECTRICAL DETAILS			
	WALL MOUNTED NOTIFICATION DEVICE, STROBE UNIT ONLY (MOUNT AT MIN 80" AFF OR MAX 96"AFF TO BOTTOM OF DEVICE). APPLIANCE SHALL HAVE CLEAR STROBE LENS WITH WHITE HOUSING MARKED "ALERT".		INTERROOM DOOR STATION, BY SECURITY VENDOR. EC TO INSTALL RJ-45 DATA JACK WITH (1)CATEGORY 6e PLENUM RATED CABLE TO PATCH PANEL IN MDF RACK IN BASEMENT ELECTRICAL ROOM AND 2#18 FROM FORM C CONTACT FOR DOOR RELEASE TO ACCESS CONTROL PANEL.	E0501	ELECTRICAL SITE DEMOLITION PLAN				
	MANUAL PULL STATION WITH PROTECTIVE COVER AND ALARM HORN. (MOUNT AT 48" AFF TO TOP).		INTERROOM MASTER STATION, BY SECURITY VENDOR. EC TO INSTALL (1) CATEGORY 6e PLENUM RATED CABLE TO PATCH PANEL IN MDF RACK IN BASEMENT ELECTRICAL ROOM.	E0101	LIGHTING DEMOLITION PLANS				
	MANUAL PULL STATION WITH PROTECTIVE COVER AND ALARM HORN, MOUNT AT 48" AFF TO TOP OF PULL STATION WITH SPEAKER AND WALL MOUNTED NOTIFICATION DEVICE, SPEAKER AND STROBE, ABOVE PULL STATION AT MIN 80" AFF OR MAX 96"AFF TO BOTTOM OF DEVICE. APPLIANCE SHALL HAVE CLEAR STROBE LENS WITH WHITE HOUSING MARKED "ALERT".		RELEASE BUTTON FOR DOOR, BY SECURITY VENDOR. WIRED BY EC. INSTALL 4#22 PLENUM RATED CABLES TO INSTALL 4#22 PLENUM RATED CABLE FROM DEVICE TO SECURITY EQUIPMENT IN BASEMENT ELECTRICAL ROOM.	E0201	POWER DEMOLITION PLANS				
	CEILING MOUNTED NOTIFICATION DEVICE, SPEAKER AND STROBE. APPLIANCE SHALL HAVE CLEAR STROBE LENS WITH WHITE HOUSING MARKED "ALERT".		ACCESS CONTROL CARD READER, BY SECURITY VENDOR. EC SHALL INSTALL SINGLE GANG BACKBOX WITH 1/2" CONDUIT CONCEALED IN WALL TO ACCESS CONTROL JUNCTION BOX ABOVE CEILING. WHERE SHOWN ON ARCHITECTURAL STOREFRONT/AULLION, COORDINATE INSTALLATION WITH GC TO CONCEAL WIRING. TOP OF BOX TO BE AT 48" AFF. EC SHALL INSTALL PLENUM RATED COMPOSITE CABLE (22/6 SHIELDED, 22/4, 22/2 18/4) FROM BASEMENT ACCESS CONTROL PANEL TO DOOR.	E0301	FIRE/COMM DEMOLITION PLANS				
	CEILING MOUNTED NOTIFICATION DEVICE, STROBE UNIT ONLY. APPLIANCE SHALL HAVE CLEAR STROBE LENS WITH WHITE HOUSING MARKED "ALERT".		ELECTRIC LOCKING DEVICE, BY GC. EC TO INSTALL 1/2" CONDUIT FROM DOOR FRAME TO ACCESS CONTROL JUNCTION BOX ABOVE DOOR.	E100	LIGHTING SCHEDULES				
	CEILING MOUNTED NOTIFICATION DEVICE, SPEAKER ONLY. APPLIANCE SHALL HAVE CLEAR STROBE LENS WITH WHITE HOUSING MARKED "ALERT".		PA SYSTEM SPEAKER, WIRE IN DAISY-CHAIN WITH MAXIMUM OF 10 DEVICES. REFER TO SPECIFICATION FOR CABLENG TYPE AND GROUPINGS OF ROOM TYPES.	E101	LIGHTINGS NEW WORK PLANS				
	SMOKE DETECTOR		EXISTING PA SYSTEM SPEAKER WITH 2-WAY COMMUNICATION. THESE WILL BE WIRED WITH OTHER SPEAKERS, NO LONGER ALLOWING FOR 2-WAY COMMUNICATION. REFER TO SPECIFICATION FOR CABLENG TYPE AND GROUPINGS OF ROOM TYPES.	E201	POWER NEW WORK PLANS				
	HEAT DETECTOR		PA SYSTEM HORN SPEAKER FOR INDOOR/OUTDOOR INSTALLATION, WIRE IN DAISY-CHAIN WITH MAXIMUM OF 10 DEVICES. REFER TO SPECIFICATION FOR CABLENG TYPE AND GROUPINGS OF ROOM TYPES.	E301	FIRE/COMM NEW WORK PLANS				
	DUCT MOUNTED SMOKE DETECTOR. PROVIDE AND INSTALL WALL MOUNTED REMOTE TEST LED & SWITCH BELOW FINISHED CEILING ADJACENT AT LOCATIONS INDICATED ON PLANS. MOUNT AS PER NFPA 72 AND 90A.		EMERGENCY CALL BUTTON. DEMOLITION ONLY.	E302	FIRE ALARM RISER DIAGRAM AND DETAILS				
	DUCT SMOKE DETECTOR KEYED REMOTE TEST STATION. MOUNT IN UNDERSIDE OF ACT CEILING. LABEL WITH MECHANICAL EQUIPMENT # AND WHETHER IT IS INSTALLED IN THE SUPPLY OR RETURN DUCT.		WIRELESS CLOCK WITH SINGLE RECESSED RECEPTACLE WITH CLOCK HANGER AND BACKBOX. EC SHALL WIRE RECEPTACLE TO ROOM RECEPTACLE CIRCUIT.	E401	ELECTRICAL NEW WORK SINGLE LINE DIAGRAM				
	FLOW SWITCH. PROVIDE CONNECTION TO FIRE ALARM PANEL FROM FLOW SWITCH AS PER MANUFACTURERS RECOMMENDED STANDARDS. REFER TO FIRE PROTECTION DRAWINGS FOR FINAL LOCATIONS AND QUANTITIES.		BLUE LIGHT STROBE, BY SECURITY VENDOR, WIRED BY EC. INSTALL 2#18 PLENUM RATED CABLE DAISY-CHAINED FROM EACH BLUE LIGHT BACK TO SECURITY EQUIPMENT IN BASEMENT. MAXIMUM OF (10) BLUE LIGHTS ON A DAISY-CHAINED HOMERUN CIRCUIT.	E501	ELECTRICAL MOTOR WIRING SCHEDULE				
	MONITORED VALVE. PROVIDE CONNECTION TO FIRE ALARM PANEL FROM MONITORED VALVE AS PER MANUFACTURERS RECOMMENDED STANDARDS. REFER TO FIRE PROTECTION DRAWINGS FOR FINAL LOCATIONS AND QUANTITIES.		SECURITY CAMERA, BY SECURITY VENDOR. EC TO INSTALL, INSTALL FLUSH MOUNT 4" OCTAGON, 2-1/8" DEEP BOX, WHERE MOUNTED ON ACCESSIBLE CEILING. BACKBOX TO BE INSTALLED WITH 1-BAR CEILING GRD HANGER SUPPORT, WHERE MOUNTED ON INACCESSIBLE OR EXPOSED CEILING. BACKBOX TO BE INSTALLED WITH 3/4" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING. WHERE INSTALLED ON EXTERIOR OF BUILDING, WEATHERPROOF BACKBOX TO BE MOUNTED FLUSH WITH EXTERIOR WALL FINISH, WITH 3/4" CONDUIT TO ABOVE NEAREST INTERIOR ACCESSIBLE CEILING. PLENUM RATED CATEGORY 6e CABLE TO BASEMENT MDF.	E502	ELECTRICAL PANEL SCHEDULES				
	ELECTROMAGNETIC DOOR HOLD OPEN, CONTROLLED BY FIRE ALARM SYSTEM ADDRESSABLE RELAY FOR AUTOMATIC RELEASE.		DOOR CONTACT. FURNISHED AND INSTALLED BY SECURITY VENDOR, WIRED BY EC. INSTALL 2#18 PLENUM RATED CABLES TO SECURITY PANEL IN BASEMENT.	E601	ELECTRICAL DETAILS				
	JUNCTION BOX								

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Δ	DATE	ISSUED FOR
	2025-11-26	DESIGN DEVELOPMENT
	2026-06-11	95% CD ISSUE
	2026-10-05	BID ISSUE

ELECTRICAL SITE DEMOLITION PLAN

DES001

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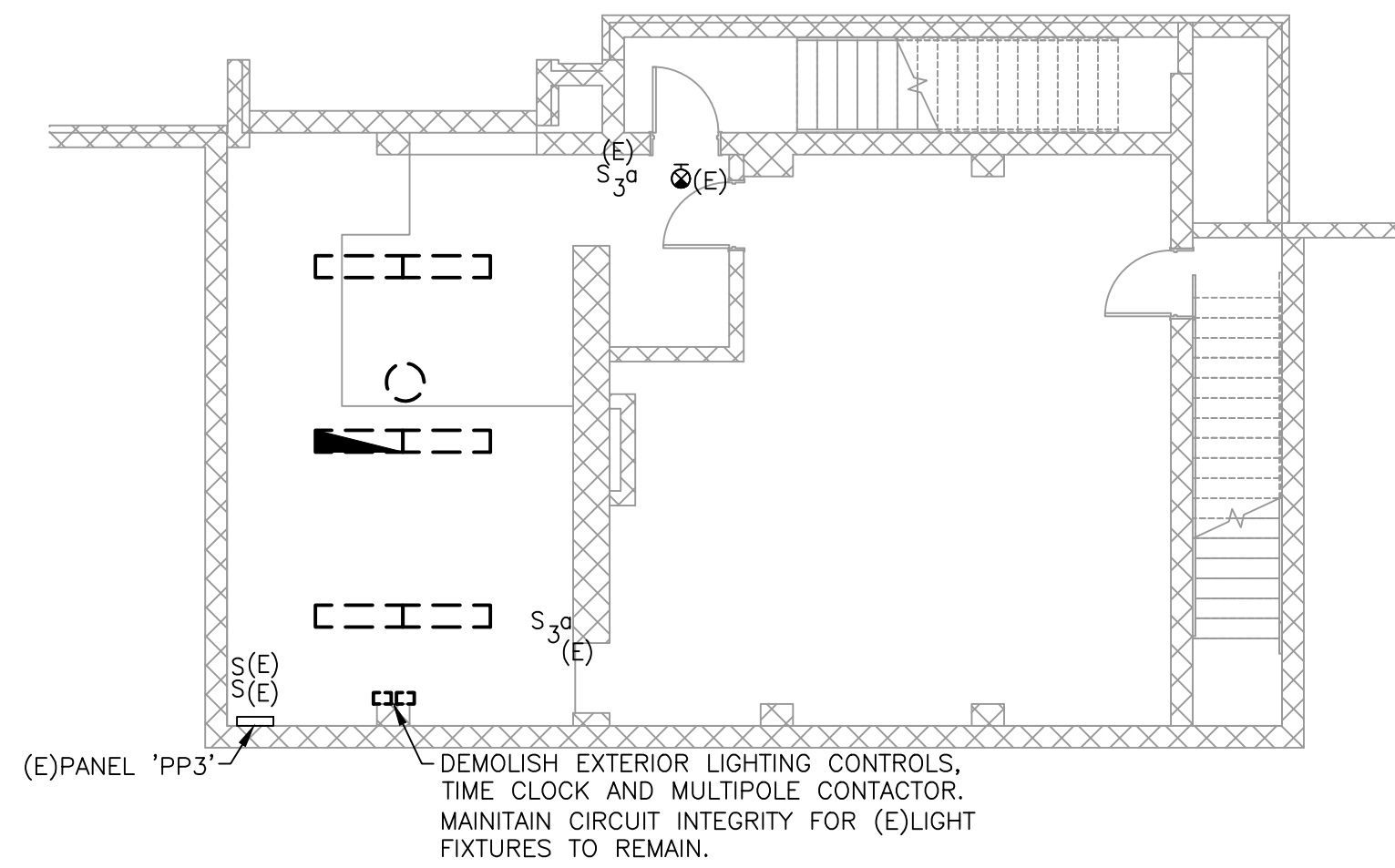
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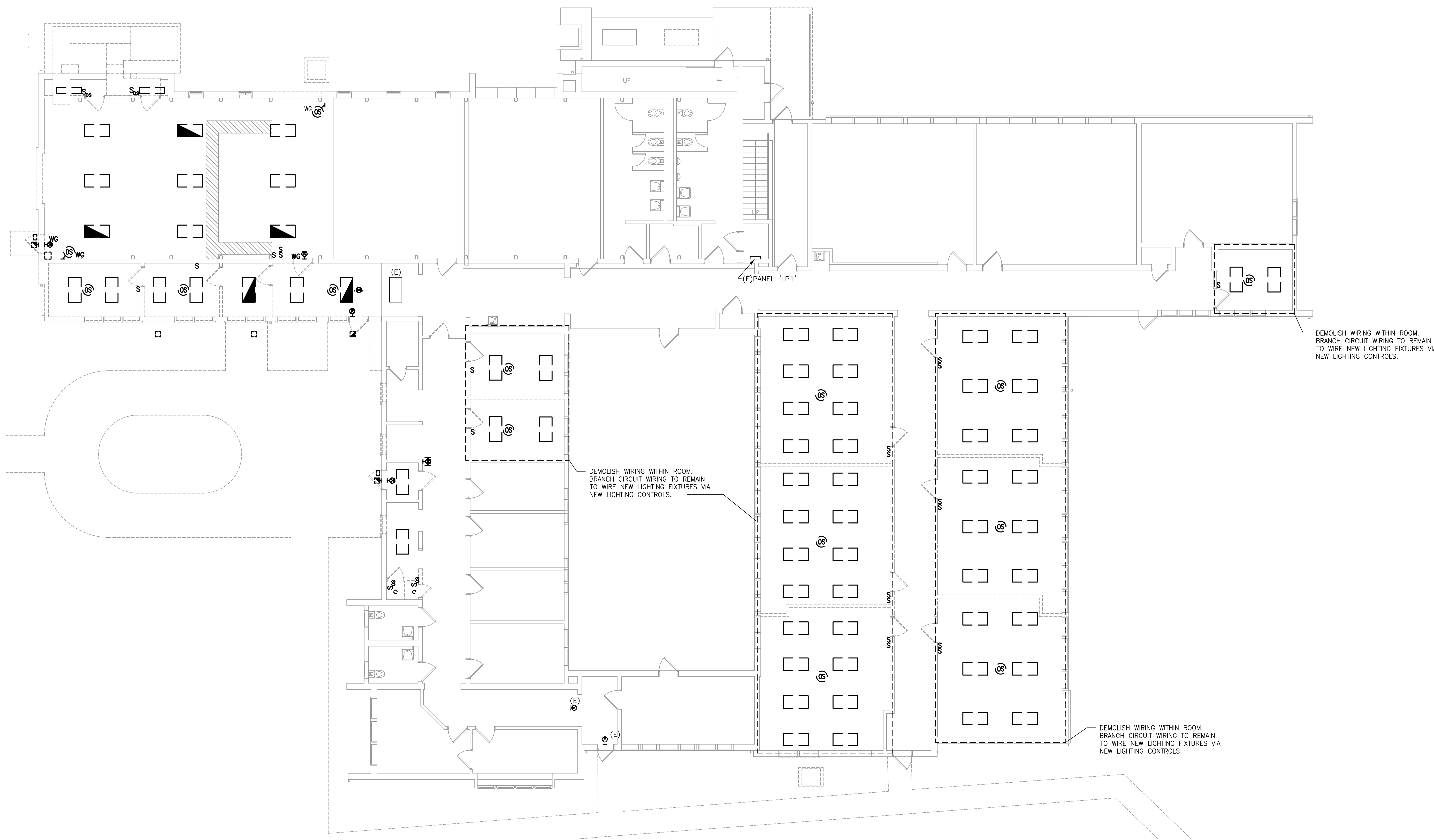
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NOTES:

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2 LIGHTING DEMOLITION PLAN BASEMENT
ED101 SCALE: 1/8"=1'-0"



1 LIGHTING DEMOLITION PLAN FIRST FLOOR
ED101 SCALE: 1/8"=1'-0"

ISSUE HISTORY

Δ	DATE	ISSUED FOR
	2025-11-26	DESIGN DEVELOPMENT
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	2026-10-05	80% ISSUE

SHEET TITLE

LIGHTING
DEMOLITION PLANS

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ED101

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	2026-10-05	BID ISSUE

SHEET TITLE

POWER DEMOLITION PLANS

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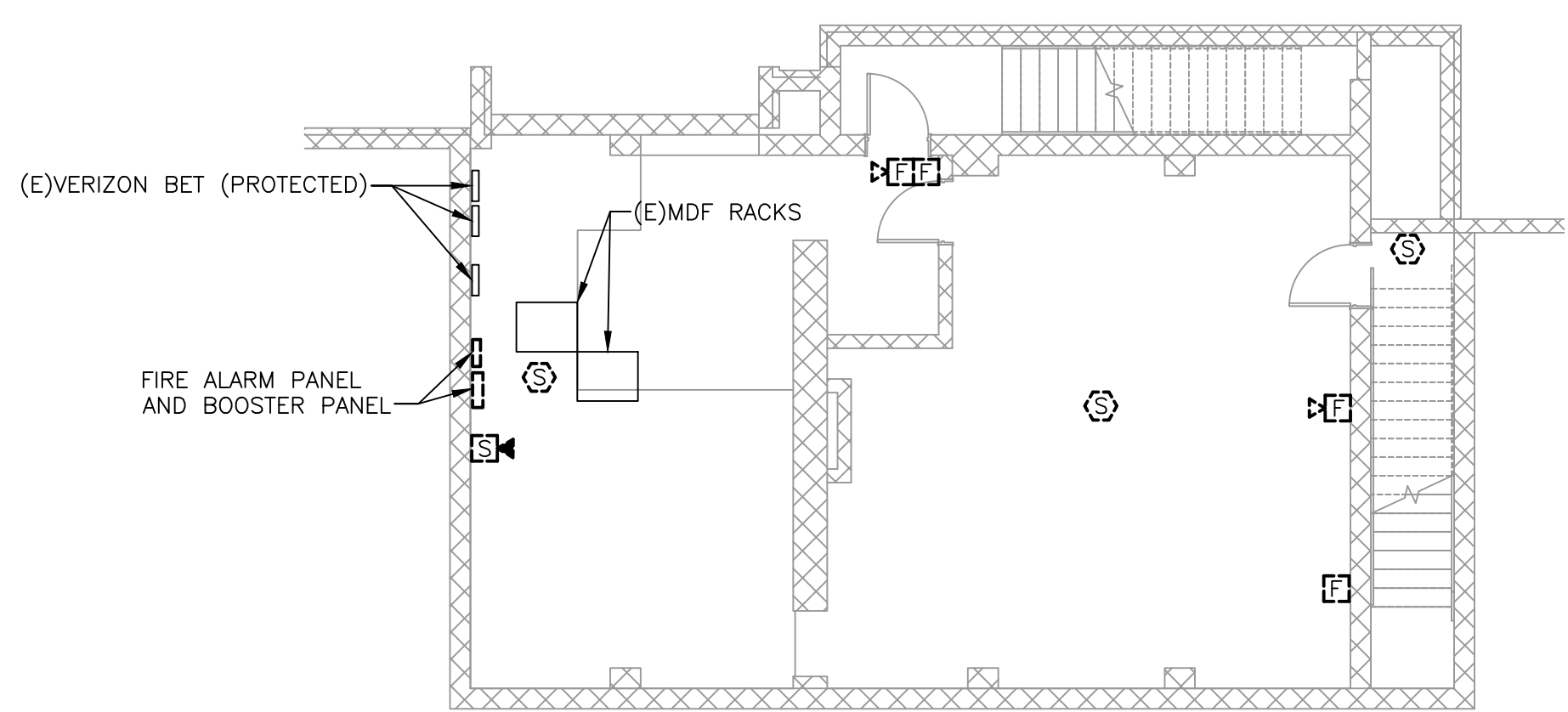
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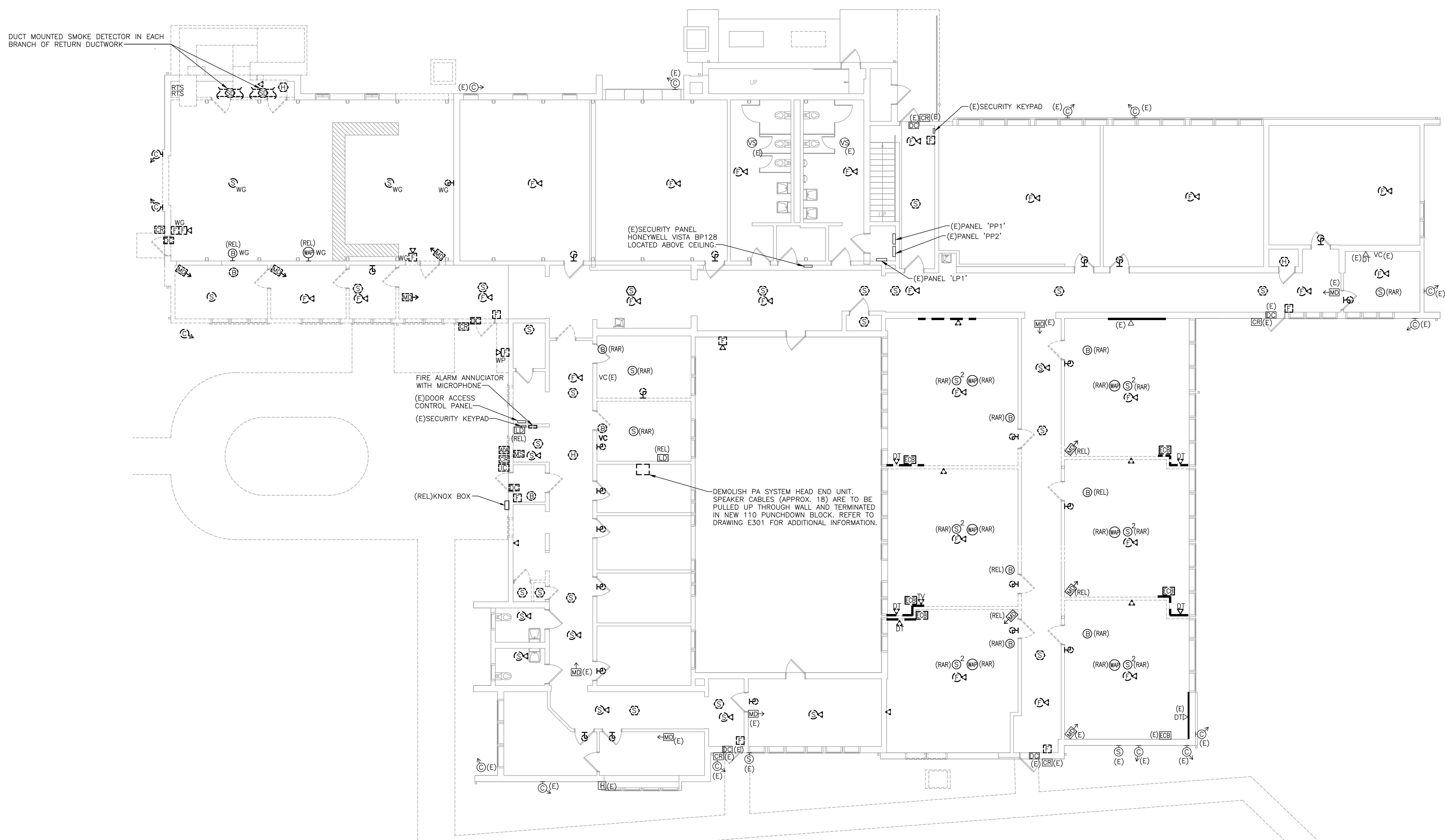
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2 FIRE/COMM DEMOLITION PLAN BASEMENT
ED301 SCALE: 1/8" = 1'-0"



1 FIRE/COMM DEMOLITION PLAN FIRST FLOOR
ED301 SCALE: 1/8" = 1'-0"

THE HISTORY

DATE	ISSUED FOR
2025-11-26	DESIGN DEVELOPMENT
2026-06-11	95% CD ISSUE
2026-10-05	BID ISSUE

ET TITLE

RE/COMM MOLITION PLANS

WING NUMBER

D301

PROJECT TEAM

CLIENT
CSL
345 Lakeside Drive
Levittown, PA 19054
215-269-7390

ARCHITECTURAL
Heckendorn Shiles Architects
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Wayne, PA 19087
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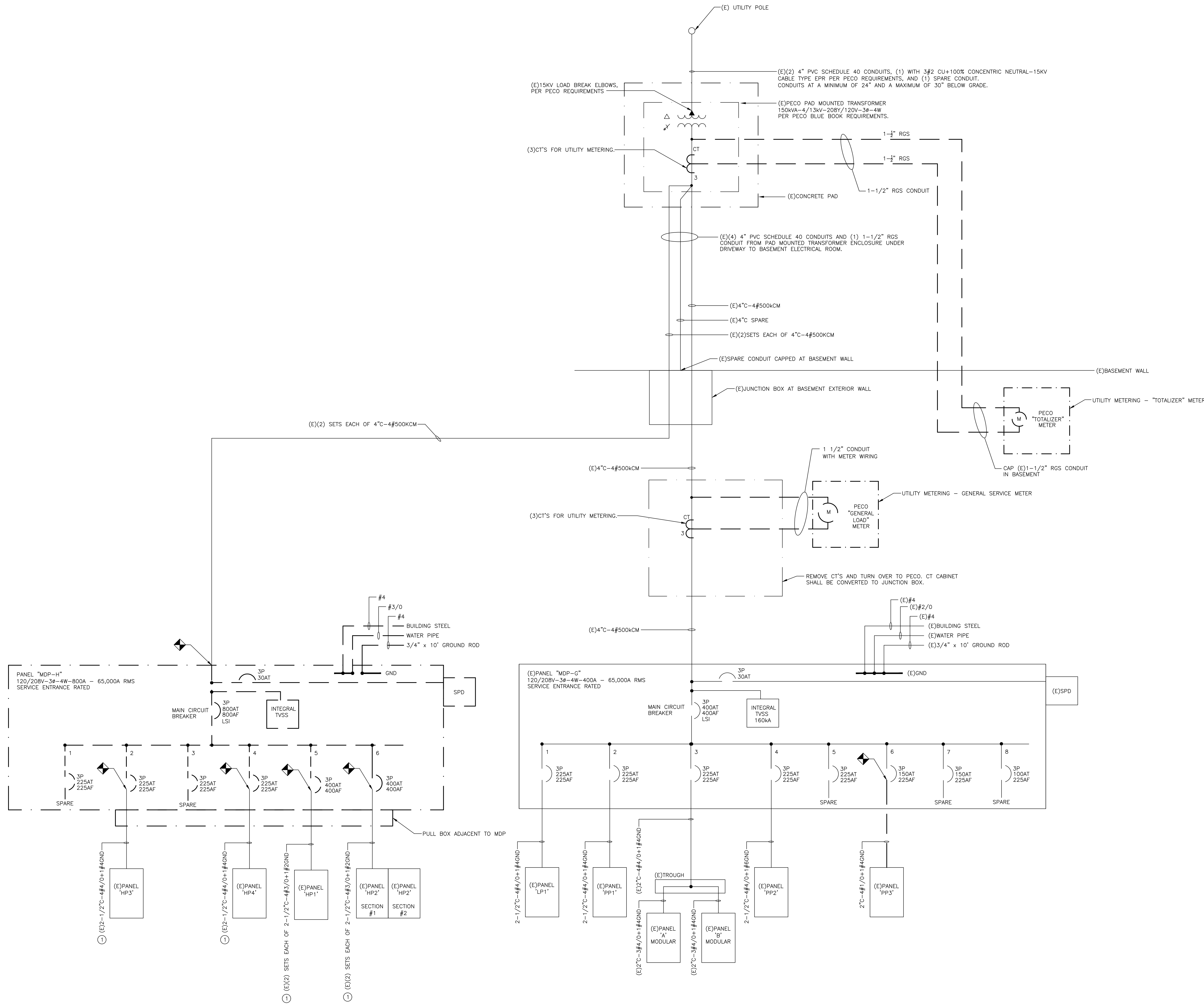
STRUCTURAL ENGINEER
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Conshohocken, PA 19428
610-852-2600

MEPP ENGINEER
Schiller & Hersh Associates
636 Skippack Pike, Suite 200
Blue Bell, PA 19422
215-886-8947

CIVIL ENGINEER
Bohler Engineering
636 Market Street Suite 920
Philadelphia, PA 19102
267-402-3400

- NOTES:
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWING E001.
 - ALL WORK SHOWN ON THIS DRAWING IS TO BE DEMOLISHED, UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REINSTALL (RAR), OR RELOCATED (REL).

- KEY NOTES:
- PULL CABLES BACK TO ACCOMMODATE DEMOLITION PANEL "MDP-H" AND PULL BOX. PARTIALLY DEMOLISH CONDUIT AS REQUIRED. REFER TO NEW WORK SINGLE LINE AND FLOOR PLAN FOR ADDITIONAL INFORMATION.



1 ELECTRICAL DEMOLITION SINGLE LINE DIAGRAM
ED401 / NOT TO SCALE

ISSUE HISTORY

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DEMOLITION SINGLE
LINE DIAGRAM
DRAWING NUMBER

ED401

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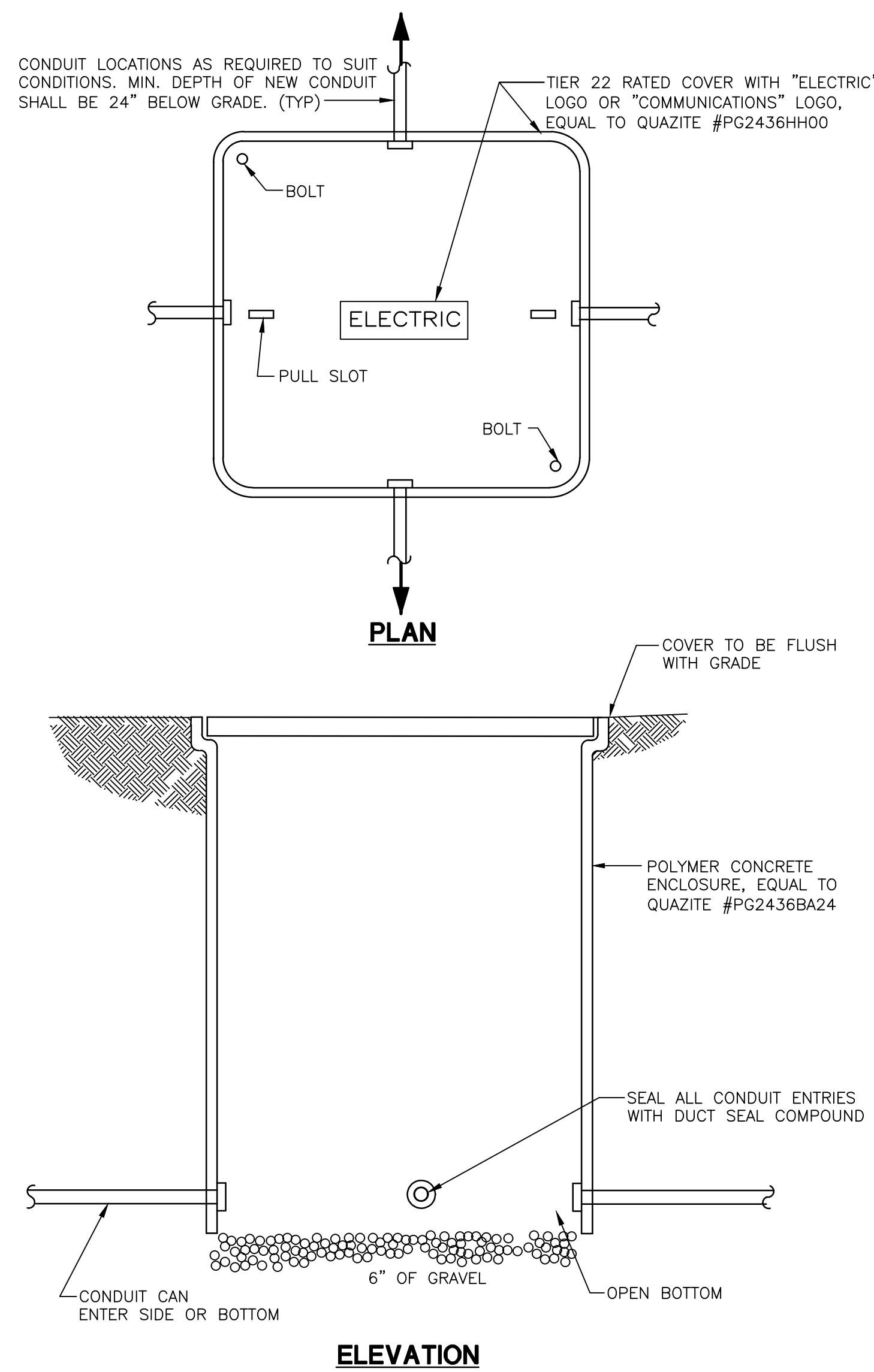
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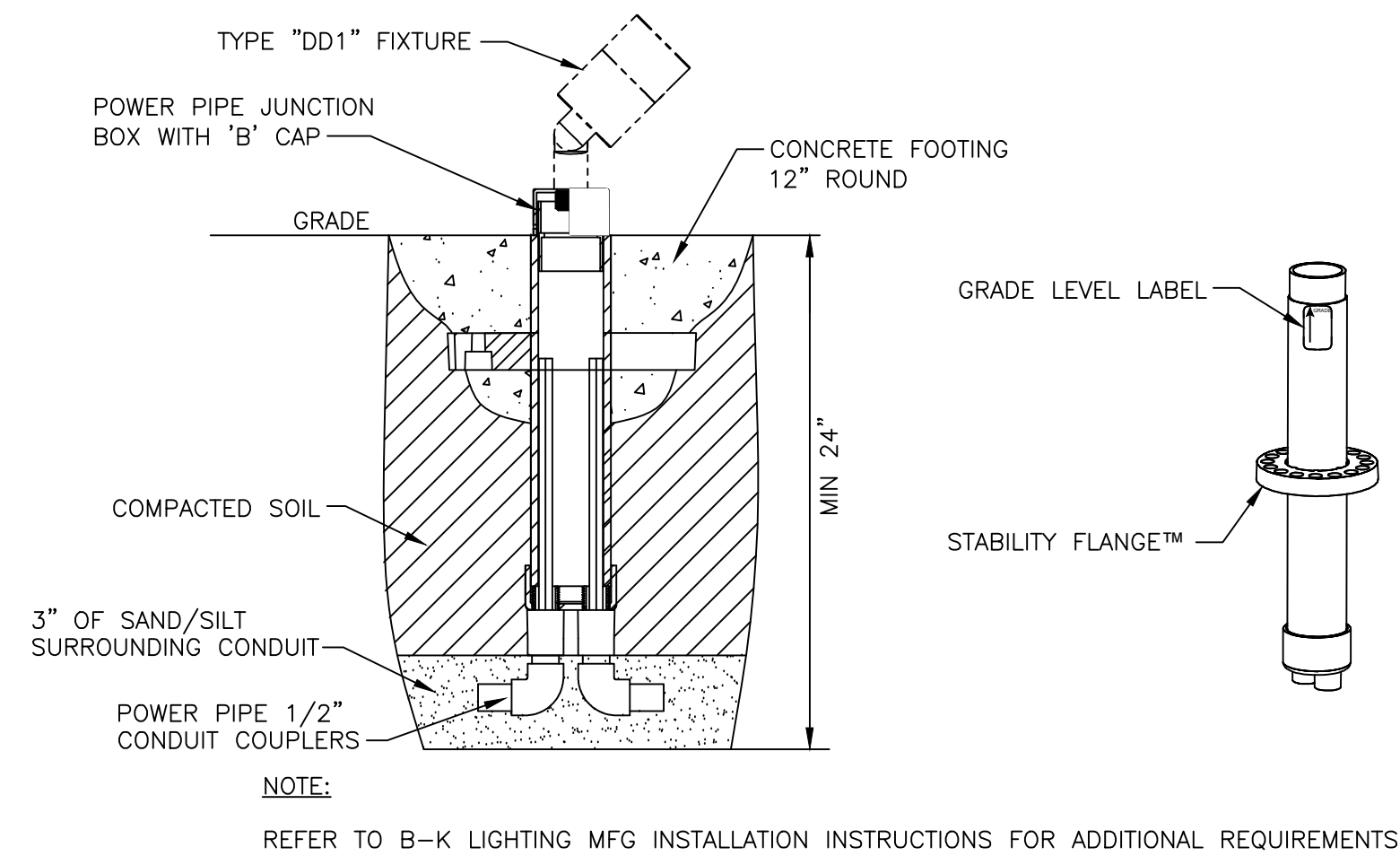
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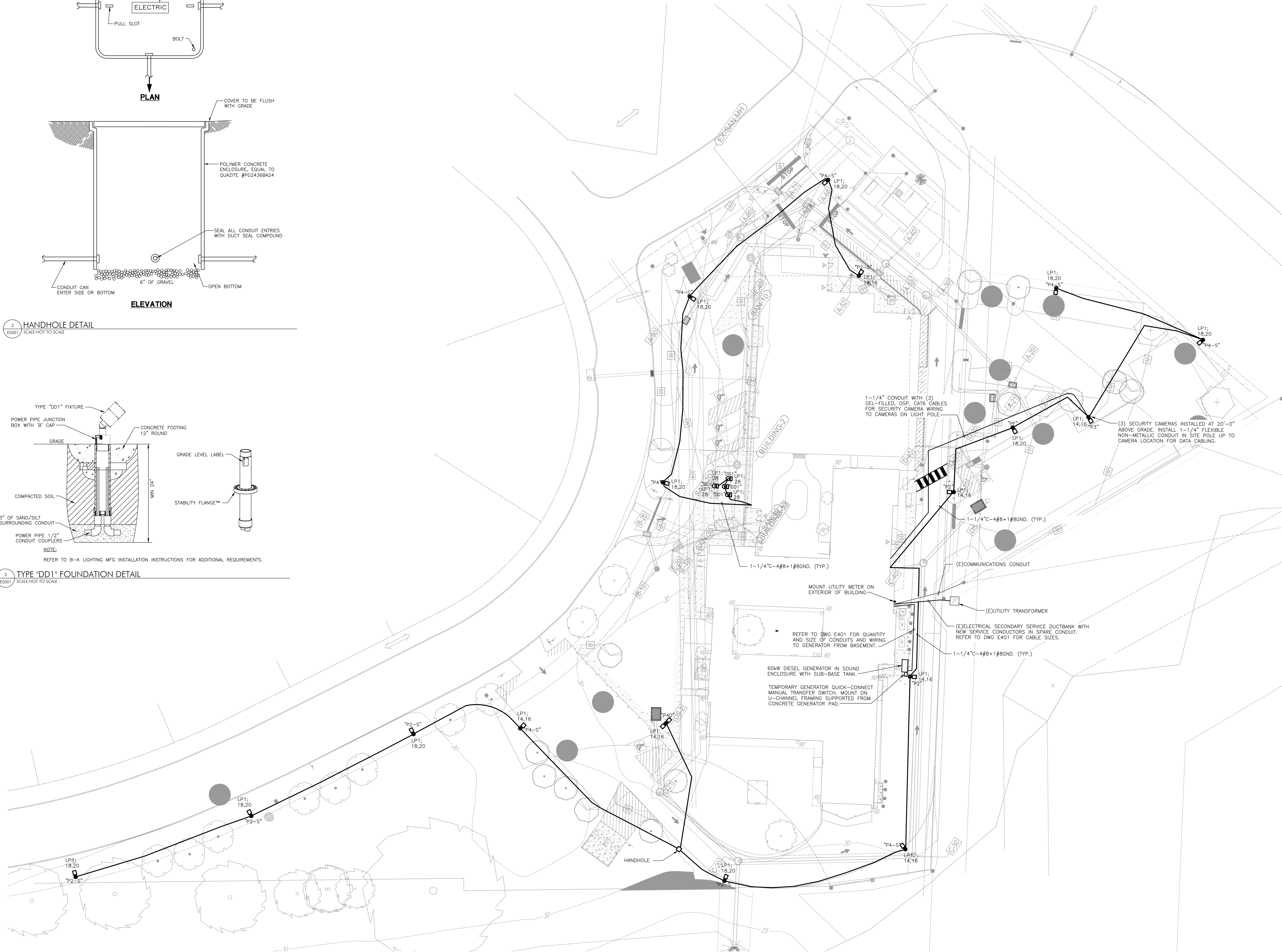
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2 HANDHOLE DETAIL
ES001 SCALE: NOT TO SCALE



3 TYPE "DD1" FOUNDATION DETAIL
ES001 SCALE: NOT TO SCALE



1 ELECTRICAL SITE PLAN-NEW WORK
ES001 SCALE: 1\"/>

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ELECTRICAL SITE
NEW WORK PLAN

DRAWING NUMBER

ES001

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LIGHTING FIXTURE SCHEDULE												
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	ALTERNATE MANUFACTURERS	VOLTS	LIGHT OUTPUT LUMENS (WATTS) (FOOT COUNCILS @ 70)			DRIVER	MOUNTING	WARRANTY	REMARKS	
A8	FINEUTE	S16-LED-0-000-0FT-3E-H-H-85-OPEN-120V-FC-10%-SC-FA-FE-CC	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	5178	85.6	3500K	100,000@0.90	LED	5-10V DIMMING	PENDANT	7'60"W x 8' LONG LINEAR PENDANT DIRECT/DIRECT LED FIXTURE WITH ACRYLIC LENSES. FIXTURES SHALL BE A CONTINUOUS RUN OF 4' SECTIONS AS INDICATED ON THE DRAWINGS. FIXTURE SHALL BE CONSTRUCTED OF DIE-CAST ALUMINUM HOUSING, BLACK BODY AND BRUSHED ALUMINUM FACE. AC ONLY AND UNIVERSAL MOUNT WITH UNIVERSAL FIELD INSTALLED ARROWS. CONTRACTOR SHALL DETERMINE THE NUMBER OF 1 AND 2 FACE BOWS ON THE PROJECT AND SHALL DETERMINE THE ARROWS BASED ON THE CONTRACT DRAWINGS.
A16	FINEUTE	S16-LED-0-000-0FT-3E-H-H-85-OPEN-120V-FC-10%-SC-FA-FE-CC	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	10356	171.2	3500K	100,000@0.90	LED	5-10V DIMMING	PENDANT	7'60"W x 16' LONG LINEAR PENDANT DIRECT/DIRECT LED FIXTURE WITH ACRYLIC LENSES. FIXTURES SHALL BE A CONTINUOUS RUN OF 4' SECTIONS AS INDICATED ON THE DRAWINGS. FIXTURE SHALL BE CONSTRUCTED OF DIE-CAST ALUMINUM HOUSING, BLACK BODY AND BRUSHED ALUMINUM FACE. AC ONLY AND UNIVERSAL MOUNT WITH UNIVERSAL FIELD INSTALLED ARROWS. CONTRACTOR SHALL DETERMINE THE NUMBER OF 1 AND 2 FACE BOWS ON THE PROJECT AND SHALL DETERMINE THE ARROWS BASED ON THE CONTRACT DRAWINGS.
B1	FINEUTE	HPR-SL-ANR-2M-4-B-835-000-96LG-120-SC-FC-10%-X-86LG	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	3100	28.4	3500K	100,000@0.90	LED	5-10V DIMMING	RECESSED	17M ARCHITECTURAL LED FIXTURE WITH ANGLED DIFFUSER AND DIFFUSE CENTER CHANNEL LENS. FIXTURE SHALL BE MAXIMUM 3-7/8" DEEP.
B2	FINEUTE	HPR-SL-ANR-2M-4-B-835-000-96LG-120-SC-FC-10%-X-86LG	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	4486	35.2	3500K	100,000@0.90	LED	5-10V DIMMING	RECESSED	24M ARCHITECTURAL LED FIXTURE WITH ANGLED DIFFUSER AND DIFFUSE CENTER CHANNEL LENS. FIXTURE SHALL BE MAXIMUM 3-7/8" DEEP.
B3A	FINEUTE	HPR-SL-ANR-2M-4-B-835-000-96LG-120-SC-FC-10%-X-86LG	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	5930	45.7	3500K	100,000@0.90	LED	5-10V DIMMING	RECESSED	SAME AS FIXTURE TYPE "B2", EXCEPT FIXTURE SHALL HAVE HIGHER LUMEN OUTPUT AND 90CRI LED LIGHT SOURCE.
B3	FINEUTE	HPR-SL-ANR-2M-4-B-835-000-96LG-120-SC-FC-10%-X-86LG	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	3226	28.5	3500K	100,000@0.90	LED	5-10V DIMMING	RECESSED	2X2 ARCHITECTURAL LED FIXTURE WITH ANGLED DIFFUSER AND DIFFUSE CENTER CHANNEL LENS. FIXTURE SHALL BE MAXIMUM 3-7/8" DEEP.
C2	FINEUTE	HP-X-0-2FT-0-B-835-TGF-120-SC-FC-10%-X-X-FE	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	2094	17.2	3500K	100,000@0.90	LED	5-10V DIMMING	PENDANT	2'0"V x 2'0"V CROSS-SECTION x 2' LONG LINEAR PENDANT DIRECT/DIRECT LED FIXTURE WITH ACRYLIC LENSES. FIXTURE SHALL BE CONSTRUCTED OF EXTRUDED ALUMINUM BODY, WITH SINGLE PRIZE EXTRUDED FLUSH PROTECTED WHITE SNAP-IN DIFFUSER. FIXTURES SHALL BE ARRANGED IN CONFIGURATION AS INDICATED ON THE DRAWINGS. PROVIDE ANKLE CONNECTORS AS NEEDED. CUSTOM RAL COLOR TO BE SELECTED BY ARCHITECT.
C4	FINEUTE	HP-X-0-2FT-0-B-835-TGF-120-SC-FC-10%-X-X-FE	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	4188	34.4	3500K	100,000@0.90	LED	5-10V DIMMING	PENDANT	SAME AS FIXTURE TYPE "C2", EXCEPT FIXTURE SHALL BE 4' LONG.
C8	FINEUTE	HP-X-0-2FT-0-B-835-TGF-120-SC-FC-10%-X-X-FE	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	8376	68.8	3500K	100,000@0.90	LED	5-10V DIMMING	PENDANT	SAME AS FIXTURE TYPE "C2", EXCEPT FIXTURE SHALL BE 8' LONG.
D1	COLUMBIA	CRN2-2-1-SCS-ED-MV-90, 100 DEGREE-FC REFRACTOR, CRN2-2-PC18 & DROP LENS, CRN2-2-POL	LITHONIA, CREE, OR APPROVED EQUAL	120V	32000	165	4000K	100,000	LED	5-10V DIMMING	PENDANT	10" DIAMETER LED HIGH BAY LIGHT FIXTURE WITH DIE CAST ALUMINUM HOUSING AND PROTECTED POLYCARBONATE REFRACTOR AND DROP LENS.
E1	EMESGLITE	BAP-10-2-R	LITHONIA, EVERLITE, OR APPROVED EQUAL	120V	-	2.5	-	-	LED	NON DIMMING	WALL/CILING	LED EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, BLACK BODY AND BRUSHED ALUMINUM FACE. AC ONLY AND UNIVERSAL MOUNT WITH UNIVERSAL FIELD INSTALLED ARROWS. CONTRACTOR SHALL DETERMINE THE NUMBER OF 1 AND 2 FACE BOWS ON THE PROJECT AND SHALL DETERMINE THE ARROWS BASED ON THE CONTRACT DRAWINGS.
E2	CURRENT/DUAL-LITE	EZ-2-L-I	LITHONIA, EMERGLITE, OR APPROVED EQUAL	120V	-	2	-	-	LED	NON DIMMING	WALL	BATTERY POWERED FULLY ADJUSTABLE TWIN HEAD LED EMERGENCY LIGHT FIXTURE WITH SELF-TEST/SELF-DIAGNOSTIC NICKEL METAL HYDRIDE BATTERY FOR 90-MINUTE OPERATION.
F1	BRUCK	MSXW-SW-35K-35-11-700-CC-DIM15Z TRACK, MEVO TRACK-FIT-48-00 POWER SUPPLY, MEVO 200W	OR APPROVED EQUAL	120V	910	14	3500K	66,000	LED	5-10V DIMMING	TRACK	1" LINEAR 13 DEGREE TILT ADJUSTABLE LED WALL WASH TRACK HEAD WITH EXTRUDED ALUMINUM HOUSING AND ALUMINUM REFLECTOR. TRACK SHALL BE RECESSED MOUNT WITH TRIM AND EXTRUDED ALUMINUM HOUSING AND REMOTE DRIVER CAPABLE OF PROVIDING POWER TO ALL TRACK HEADS AS INDICATED ON DRAWINGS.
G1	WILLIAMS	4DR-TL-120-835-DIM-UNV-RW-OF-CS	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	1323	19.8	3500K	55,000@0.90	LED	5-10V DIMMING	RECESSED	4.5" ROUND RECESSED LED DOWNLIGHT. FIXTURE SHALL HAVE SHALLOW 5-3/4" DEEP HOUSING. FIXTURE SHALL HAVE CLEAR SEMI-SPECULAR ANKOOZE REFLECTOR WITH REGRESSED LENS AND WIDE DISTRIBUTION.
G2	WILLIAMS	4DR-TL-120-835-DIM-UNV-RW-OF-CS	PEERLESS, FOCAL POINT, OR APPROVED EQUAL	120V	660	9	3500K	55,000@0.90	LED	5-10V DIMMING	RECESSED	4.5" ROUND RECESSED LED DOWNLIGHT. FIXTURE SHALL HAVE SHALLOW 5-3/4" DEEP HOUSING. FIXTURE SHALL HAVE CLEAR SEMI-SPECULAR ANKOOZE REFLECTOR WITH REGRESSED LENS AND WIDE DISTRIBUTION.
H1	ECOSENSE	L30-12-04-35-40-MULT-120	OR APPROVED EQUAL	120V	400	4.5	3500K	60,000@0.90	LED	5-10V DIMMING	COVE	1" LINEAR LED FIXTURE WITH EXTRUDED POLYCARBONATE HOUSING AND LENS AND INTEGRAL DRIVER. FIXTURE SHALL BE SURFACE MOUNTED IN ARCHITECTURAL COVE. PROVIDE AND INSTALL CONNECTORS AS REQUIRED FOR FIXTURE CONFIGURATION INDICATED ON DRAWINGS.
H4	ECOSENSE	L30-14-04-35-40-MULT-120	OR APPROVED EQUAL	120V	1600	18	3500K	60,000@0.90	LED	5-10V DIMMING	COVE	4" LINEAR LED FIXTURE WITH EXTRUDED POLYCARBONATE HOUSING AND LENS AND INTEGRAL DRIVER. FIXTURE SHALL BE SURFACE MOUNTED IN ARCHITECTURAL COVE. PROVIDE AND INSTALL CONNECTORS AS REQUIRED FOR FIXTURE CONFIGURATION INDICATED ON DRAWINGS.
I1	COLUMBIA	LCL4-3MML-EDU	LITHONIA, CREE, OR APPROVED EQUAL	120V	5,329	42	3500K	50,000	LED	5-10V DIMMING	SURFACE/ PENDANT	4" LED STRIP LIGHT FIXTURE WITH PROTECTED ACRYLIC LENS AND HEAVY DUTY DIE FORMED STEEL CHANNEL WITH WHITE BAKED ENAMEL PAINT. PROVIDE WITH CHAIR HANGER ASSEMBLY FOR SUSPENSION MOUNTING.
P2	LSI INDUSTRIES	FIXTURE: MRML-LED-24L-2L-4-x-x-x-40-70CRI-x POLE: 60P-83-5110-22F"-S	COOPER LIGHTING SOLUTIONS, GARDCO BY SIGNIFY, OR APPROVED EQUAL	120-277V	25,064	161	4000K	100,000@0.80	LED	5-10V DIMMING	POLE	MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE 2, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
P2-S	LSI INDUSTRIES	FIXTURE: MRML-LED-24L-2L-4-x-x-x-40-70CRI-x POLE: 60P-83-5110-22F"-S	COOPER LIGHTING SOLUTIONS, GARDCO BY SIGNIFY, OR APPROVED EQUAL	120-277V	25,064	161	4000K	100,000@0.80	LED	5-10V DIMMING	POLE	MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE 2 WITH INTEGRAL LOUVER, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
P3	LSI INDUSTRIES	FIXTURE: MRML-LED-24L-2L-4-x-x-x-40-70CRI-x POLE: 60P-83-5110-22F"-S	COOPER LIGHTING SOLUTIONS, GARDCO BY SIGNIFY, OR APPROVED EQUAL	120-277V	25,955	161	4000K	100,000@0.80	LED	5-10V DIMMING	POLE	MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE 3, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
P4	LSI INDUSTRIES	FIXTURE: MRML-LED-24L-2L-4-x-x-x-40-70CRI-x POLE: 60P-83-5110-22F"-S	COOPER LIGHTING SOLUTIONS, GARDCO BY SIGNIFY, OR APPROVED EQUAL	120-277V	25,601	161	4000K	100,000@0.80	LED	5-10V DIMMING	POLE	MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE 4, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
P4-S	LSI INDUSTRIES	FIXTURE: MRML-LED-24L-2L-4-x-x-x-40-70CRI-x POLE: 60P-83-5110-22F"-S	COOPER LIGHTING SOLUTIONS, GARDCO BY SIGNIFY, OR APPROVED EQUAL	120-277V	25,601	161	4000K	100,000@0.80	LED	5-10V DIMMING	POLE	MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE 4 WITH INTEGRAL LOUVER, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
P4-D	LSI INDUSTRIES	(2) FIXTURES: MRML-LED-24L-2L-4-x-x-x-40-70CRI-x POLE: 60P-83-5110-22F"-S	COOPER LIGHTING SOLUTIONS, GARDCO BY SIGNIFY, OR APPROVED EQUAL	120-277V	25,601	161	4000K	100,000@0.80	LED	5-10V DIMMING	POLE	TWIN (2) HEADS ON SINGLE POLE: MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE 4, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
P5	LSI INDUSTRIES	FIXTURE: MRML-LED-24L-2L-4-x-x-x-40-70CRI-x POLE: 60P-83-5110-22F"-S	COOPER LIGHTING SOLUTIONS, GARDCO BY SIGNIFY, OR APPROVED EQUAL	120-277V	25,601	161	4000K	100,000@0.80	LED	5-10V DIMMING	POLE	MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE 5, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
PF	LSI INDUSTRIES	FIXTURE: MRML-LED-24L-2L-4-x-x-x-40-70CRI-x POLE: 60P-83-5110-22F"-S	COOPER LIGHTING SOLUTIONS, GARDCO BY SIGNIFY, OR APPROVED EQUAL	120-277V	25,948	161	4000K	100,000@0.80	LED	5-10V DIMMING	POLE	MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE F7, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
AA1	AMP LIGHTING	SLV19-E00XLD5-12-40K	OR APPROVED EQUAL	120V	3,479	30	4000K	80,000	LED	5-10V DIMMING	WALL	MIRADA MEDIUM (MRM) OUTDOOR LED AREA LUMINAIRE, TYPE F7, ZERO UP-LIGHT, MOUNT AT 20'-0" AFS.
BB1	ECOSENSE	L50-12-12-40-80-MULT-ASYM	OR APPROVED EQUAL	120V	1081	12	4000K	50,000@0.50	LED	5-10V DIMMING	COVE	1" LINEAR LED FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND POLYCARBONATE LENS AND INTEGRAL DRIVER. PROVIDE AND INSTALL CONNECTORS AS REQUIRED FOR FIXTURE CONFIGURATION INDICATED ON DRAWINGS. PROVIDE 18 INCH WALL MOUNT ARM. FIXTURE SHALL BE UL LISTED FOR WET LOCATIONS.
DD1	INSIGHT	PSB-50-40K-40-491-CM-120-DM-X3	OR APPROVED EQUAL	120	2294	26	4000K	100,000	LED	NON DIMMING	PEDASTAL	SPOT LIGHT FOR FLAG POLE LIGHTING WITH DIE CAST ALUMINUM HOUSING AND TEMPERED GLASS LENS WITH 40 DEGREE BEAM SPREAD. FIXTURE TO BE MOUNTED WITH KNUCKLE MOUNT, INSTALLED ON CONCRETE FOUNDATION AND WEATHERPROOF 4" OCTAGON BOX. FIXTURE TO BE AIMED AT THE FLAGPOLE. FIXTURE SHALL BE IP66 RATED. ARCHITECT SHALL SELECT FINAL FIXTURE COLOR.

LIGHTING CONTROL SCHEDULE									
	OCCUPANCY SENSOR	VACANCY SENSOR	DAYLIGHT SENSOR	OTHER	AUTOMATIC SHUT OFF BY	WALL CONTROLS	LIFE SAFETY EMERGENCY LIGHTING	SEQUENCE	LOCATION
C01	-	YES	YES	-	VACANCY SENSOR	4-BUTTON DIGITAL SWITCHES (ON, OFF, RAISE, LOWER)	-	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER. LIGHTS DIMMED BY USER OR DAYLIGHT SENSOR. THE "ON" FUNCTION OF THE DIMMER SHALL RECALL THE LAST DIMMED SETTING.	CLASSROOMS
C02	-	YES	-	-	VACANCY SENSOR	4-BUTTON DIGITAL SWITCHES (ON, OFF, RAISE, LOWER)	CONTROLLED WITH NORMAL LIGHTING. ON TO 100% DURING POWER OUTAGE, WITH UL 924 DEVICE	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER. LIGHTS DIMMED BY USER. THE "ON" FUNCTION OF THE DIMMER SHALL RECALL THE LAST DIMMED SETTING.	CONFERENCE ROOM, OFFICES
C03	YES	-	-	-	TIME CLOCK	-	CONTROLLED WITH NORMAL LIGHTING. ON TO 20% WHEN SPACE NOT OCCUPIED. ON TO 100% DURING POWER OUTAGE VIA UL 924 DEVICE.	LIGHTS ON AND OFF BY TIMECLOCK DURING NORMAL SCHOOL HOURS. AFTER HOURS, LIGHTS CONTROLLED VIA OCCUPANCY SENSORS.	CORRIDORS AND VESTIBULES
C04	-	YES	-	-	VACANCY SENSOR	6-BUTTON DIGITAL SWITCHES (4 PRESET, RAISE/LOWER)	CONTROLLED WITH NORMAL LIGHTING. ON TO 100% DURING POWER OUTAGE VIA UL 924 DEVICE.	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER. LIGHTS DIMMED BY USER. THE "ON" FUNCTION OF THE DIMMER SHALL RECALL THE LAST DIMMED SETTING.	GYMNASIUM
C05	YES	-	-	-	OCCUPANCY SENSOR	-	CONTROLLED WITH NORMAL LIGHTING. ON TO 100% DURING POWER OUTAGE VIA UL 924 DEVICE.	LIGHTS ON AND OFF BY OCCUPANCY SENSOR.	GANG TOILET ROOMS
C06	YES	-	-	-	OCCUPANCY SENSOR	1-BUTTON DIGITAL SWITCH (ON/OFF) WITH INTEGRAL SENSOR AT SWITCH	-	LIGHTS ON AND OFF BY OCCUPANCY SENSOR. MANUAL OFF BY USER IF DESIRED.	INDIVIDUAL TOILET ROOMS
C07	-	YES	-	-	VACANCY SENSOR	1-BUTTON DIGITAL SWITCH (ON/OFF) WITH INTEGRAL SENSOR AT SWITCH	-	LIGHTS ON BY USER. LIGHTS OFF BY VACANCY SENSOR OR USER.	SMALL STORAGE, JAN CLOSET, ELEC/MECH ROOM

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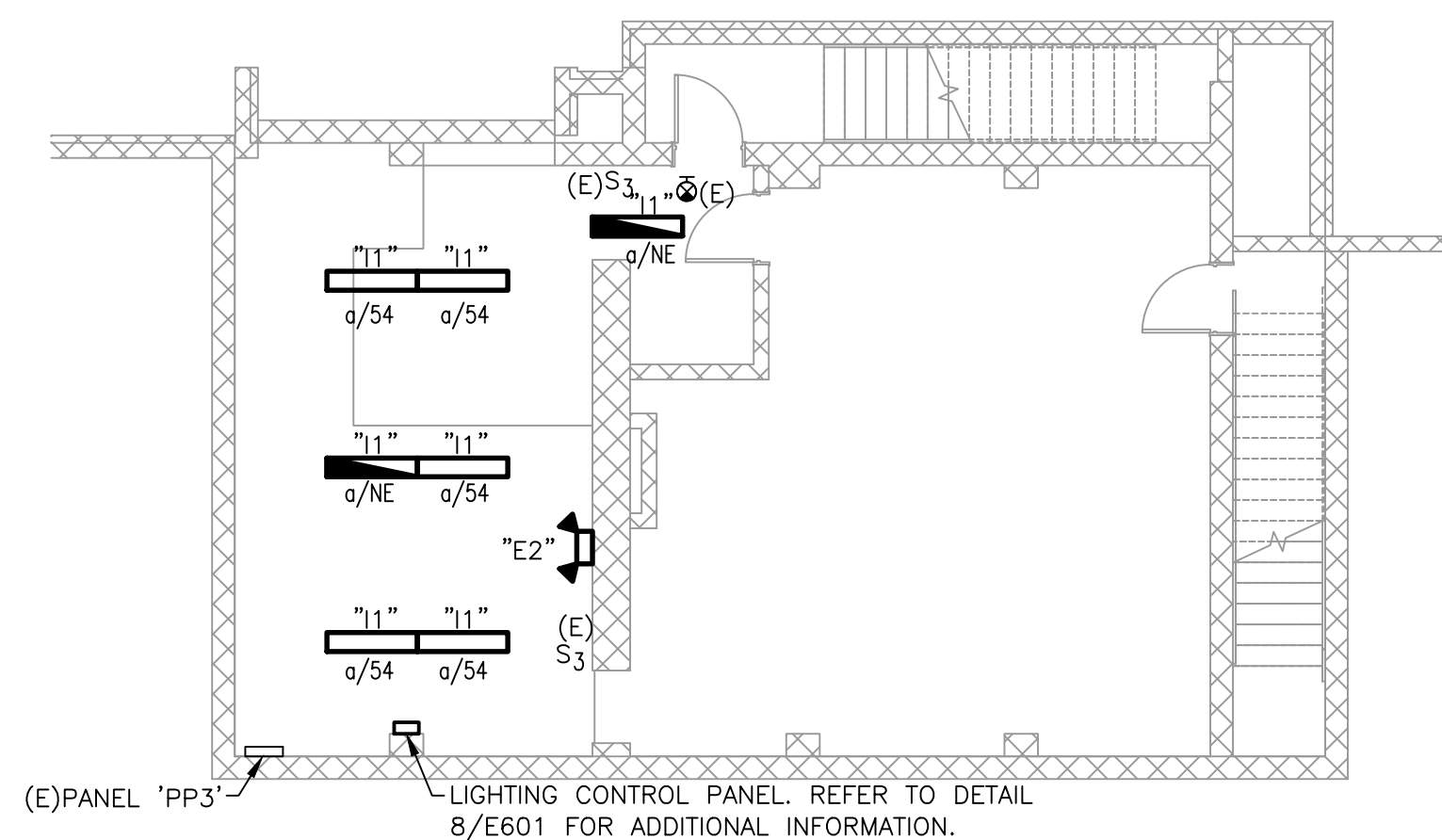
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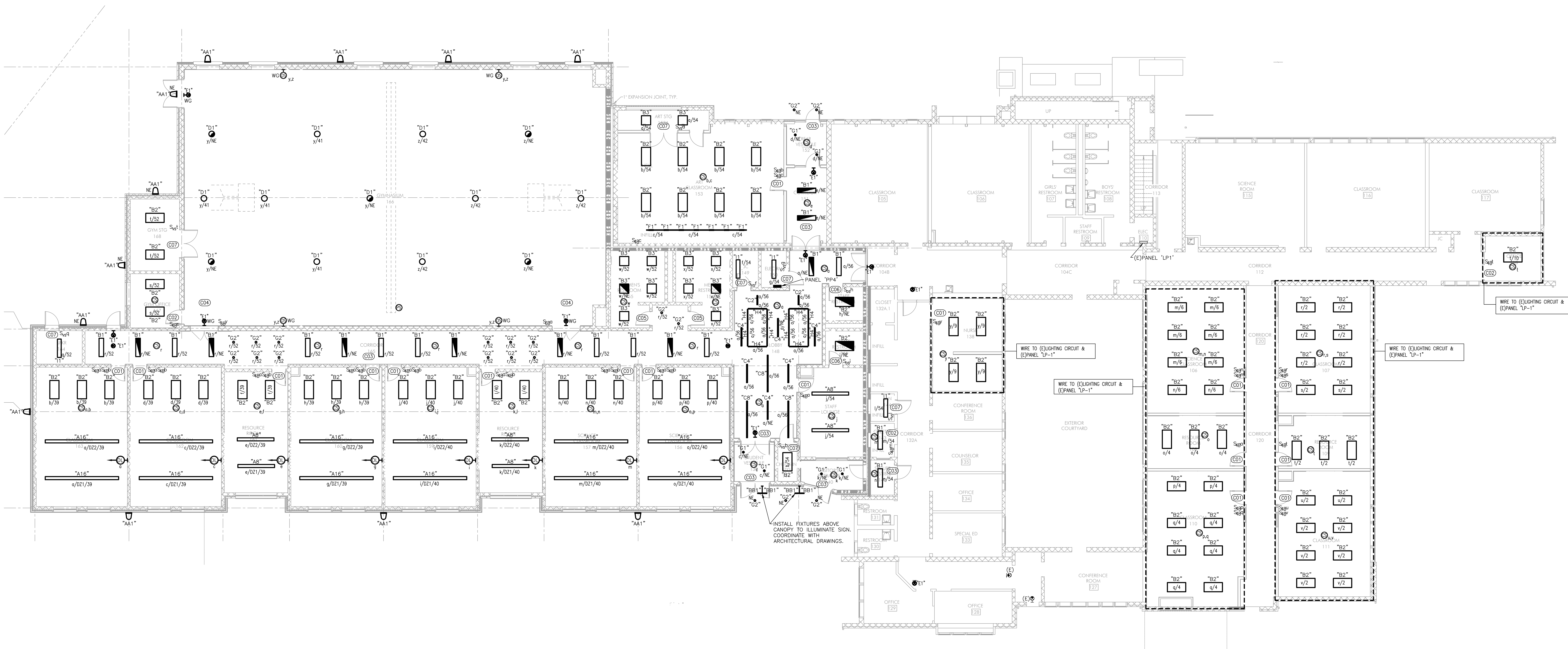
LIGHTING SCHEDULES

DRAWING NUMBER

- NOTES:
1. REFER TO DRAWING E001 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 2. ALL WORK SHOWN SHALL BE NEW UNLESS OTHERWISE NOTED.
 3. WIRE ALL NORMAL FIXTURES ON THIS DRAWING TO PANEL "PP4", CIRCUITING VIA LIGHTING CONTROLS AS INDICATED, UNLESS OTHERWISE NOTED.
 4. WIRE ALL INTERIOR NORMAL/EMERGENCY "NE" FIXTURES TO PANEL "PP3", CIRCUIT #24 VIA LIGHTING CONTROLS AS INDICATED, UNLESS OTHERWISE NOTED.
 4. WIRE EXIT SIGNS TO PANEL "PP3", CIRCUIT #26, AHEAD OF ANY SWITCHING OR LIGHTING CONTROL.
 5. REFER TO ARCHITECTURAL RCP AS REQUIRED FOR ADDITIONAL INFORMATION.
 6. WIRE ALL EXTERIOR NORMAL FIXTURES TO PANEL "LP1", CIRCUIT #26 VIA LIGHTING CONTROLS. REFER TO DETAIL 8/E001 FOR ADDITIONAL INFORMATION.
 7. WIRE ALL EXTERIOR NORMAL/EMERGENCY "NE" FIXTURES TO PANEL "PP3", CIRCUIT #28.
 8. WIRE ALL "E2" LIGHTING FIXTURES TO LLC AHEAD OF ALL SWITCHING OR LIGHTING CONTROLS. REFER TO DETAIL 8/E001 FOR ADDITIONAL INFORMATION.
 9. WIRE ALL GYM NORMAL/EMERGENCY "NE" FIXTURES TO PANEL "PP3", CIRCUIT #30 VIA LIGHTING CONTROLS AS INDICATED, UNLESS OTHERWISE NOTED.



2 LIGHTING NEW WORK PLAN BASEMENT
E101 SCALE 1/8"=1'-0"



1 LIGHTING NEW WORK PLAN FIRST FLOOR
E101 SCALE 1/8"=1'-0"

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2. ALL WORK SHOWN ON THIS DRAWING IS NEW WORK, UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REINSTALL (RAR), OR RELOCATED (REL).

3. WIRE 120V WIRELESS CLOCKS TO LOCAL 120V RECEPTACLE CIRCUIT WITHIN ROOM



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	2026-10-05	BID ISSUE

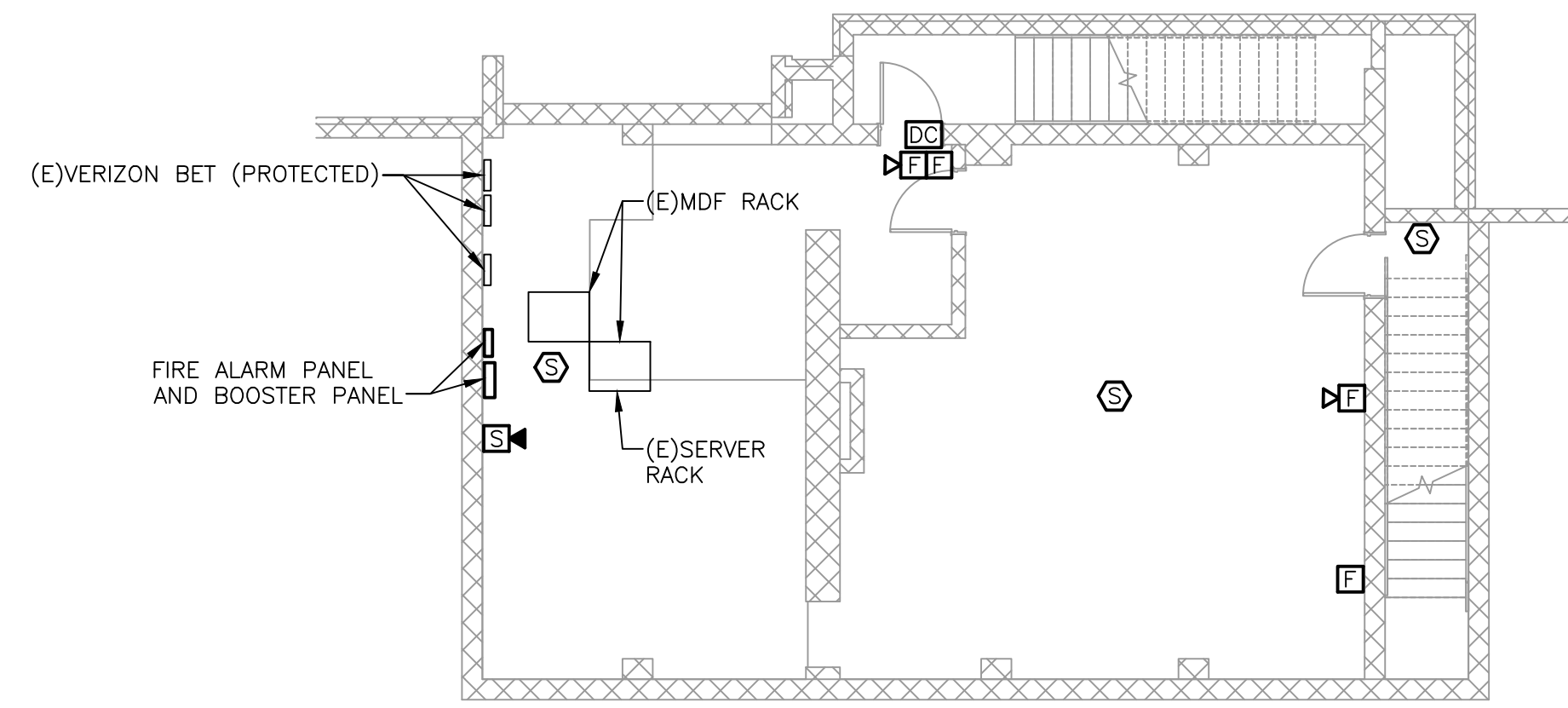
SHEET TITLE

POWER NEW WORK PLANS

DRAWING NUMBER

E201

- NOTES:
1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWING E001.
 2. ALL WORK SHOWN ON THIS DRAWING IS NEW WORK, UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REINSTALL (RAR), OR RELOCATED (REL).
 3. CONTRACTOR IS RESPONSIBLE TO REMOVE AND REINSTALL EXISTING CEILING TILES THROUGHOUT EXISTING BUILDING FOR INSTALLATION AND DEMOLITION OF FIRE ALARM WIRING. CONTRACTOR IS RESPONSIBLE TO REPLACE ANY CEILING TILES DAMAGED RELATED TO THIS WORK.
 4. CONTRACTOR SHALL HIRE AUDIO/VISUAL INSTALLER TO PROVIDE AND INSTALL LOCAL SOUND REINFORCEMENT SYSTEM FOR THE GYMNASIUM. REFER TO SPECIFICATION 275123 FOR FURTHER DETAILS AND REQUIREMENTS.
 5. TERMINATE (18) EXISTING SPEAKER CIRCUITS ON PUNCH DOWN BLOCKS. SPLICE AND EXTEND (3) NEW SPEAKER CIRCUITS FROM PUNCH BLOCKS TO NEW PA SYSTEM HEADEND IN EQUIPMENT RACK IN BASEMENT. INTENT IS FOR CLASSROOM SPEAKER CIRCUITS, CORRIDOR SPEAKERS CIRCUITS, AND OUTDOOR SPEAKER CIRCUITS ARE TO BE COMBINED TO (3) PA SYSTEM SPEAKER CIRCUITS.
 6. NEW PA SYSTEM AND MASTER CLOCK SYSTEMS ARE TO BE INSTALLED IN SUMMER OF 2027 FOR ALL EXISTING PORTIONS OF THE BUILDING. SYSTEMS IN THE NEW ADDITION WILL BE ADDED ON TO THESE SYSTEMS AT THE COMPLETION OF THE ADDITION PHASE. SEPARATE PROGRAMMING AND TESTING SHALL BE INCLUDED FOR BOTH PHASES.



2 FIRE/COMM NEW WORK PLAN BASEMENT
E301 SCALE: 1/8"=1'-0"

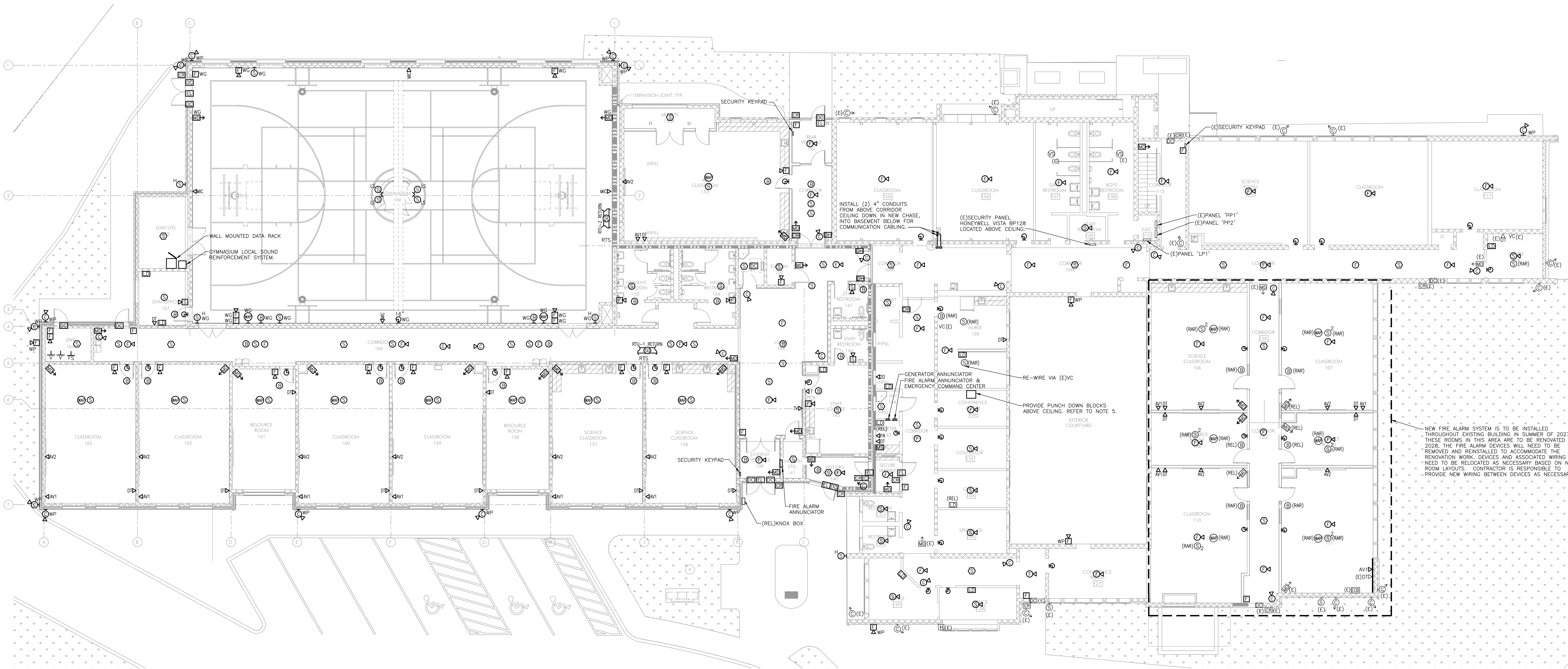
COMMUNICATIONS BLOCK DIAGRAM NOTES:

1. REFER TO DRAWINGS FOR EXACT QUANTITIES OF JACKS AND DEVICES.
2. FOR PATCH PANELS, QUANTITIES OF PANELS IS BASED JACK QUANTITY PLUS 25% SPARE CAPACITY.
3. SUPPORT ALL COMMUNICATION CABLEING AND CABLES EVERY 6 FEET, FROM STRUCTURE.
4. PROVIDE PATCH CORDS BETWEEN ALL EQUIPMENT, AS NEEDED, FOR A COMPLETE SYSTEM INSTALLATION.
5. REFER TO SPECIFICATION 271500 FOR ADDITIONAL REQUIREMENTS, EQUIPMENT, AND ACCESSORIES TO BE FURNISHED AND INSTALLED IN IDF RACKS, INCLUDING UPS'S.
6. COORDINATE THE INSTALLATION OF ALL COMMUNICATIONS EQUIPMENT AND TERMINATIONS WITH OWNER'S OIT DEPARTMENT PRIOR TO INSTALLATION.
7. ALL CABLING, TERMINATIONS, TESTING, AND EQUIPMENT SHOWN IN BLOCK DIAGRAM TO BE INCLUDED IN BASE BID, UNLESS OTHERWISE NOTED.

COMMUNICATIONS BLOCK DIAGRAM LEGEND

- | | |
|-----|---|
| NS | NETWORK SWITCH BY OWNER |
| PE | CAT 6 PATCH PANELS, REFER TO SPECIFICATION 271500 |
| LIU | FIBER INTERCONNECTION UNIT, REFER TO SPECIFICATION 271500 |
| UPS | UNINTERRUPTIBLE POWER SUPPLY, REFER TO SPECIFICATION 271500 |
| WMC | WIRELESS MASTER CLOCK, REFER TO SPECIFICATION 276000. |
| PAS | PA SYSTEM HEAD END UNIT, REFER TO SPECIFICATION 275123 |

3 COMMUNICATIONS BLOCK DIAGRAM
NOT TO SCALE



1 FIRE/COMM NEW WORK PLAN FIRST FLOOR
E301 SCALE: 1/8"=1'-0"

ISSUE HISTORY

DATE	ISSUED FOR
2025-11-26	DESIGN DEVELOPMENT
2024-06-11	95% CD ISSUE
2026-10-05	BID ISSUE

SHEET TITLE

FIRE/COMM
NEW WORK PLANS

DRAWING NUMBER

E301

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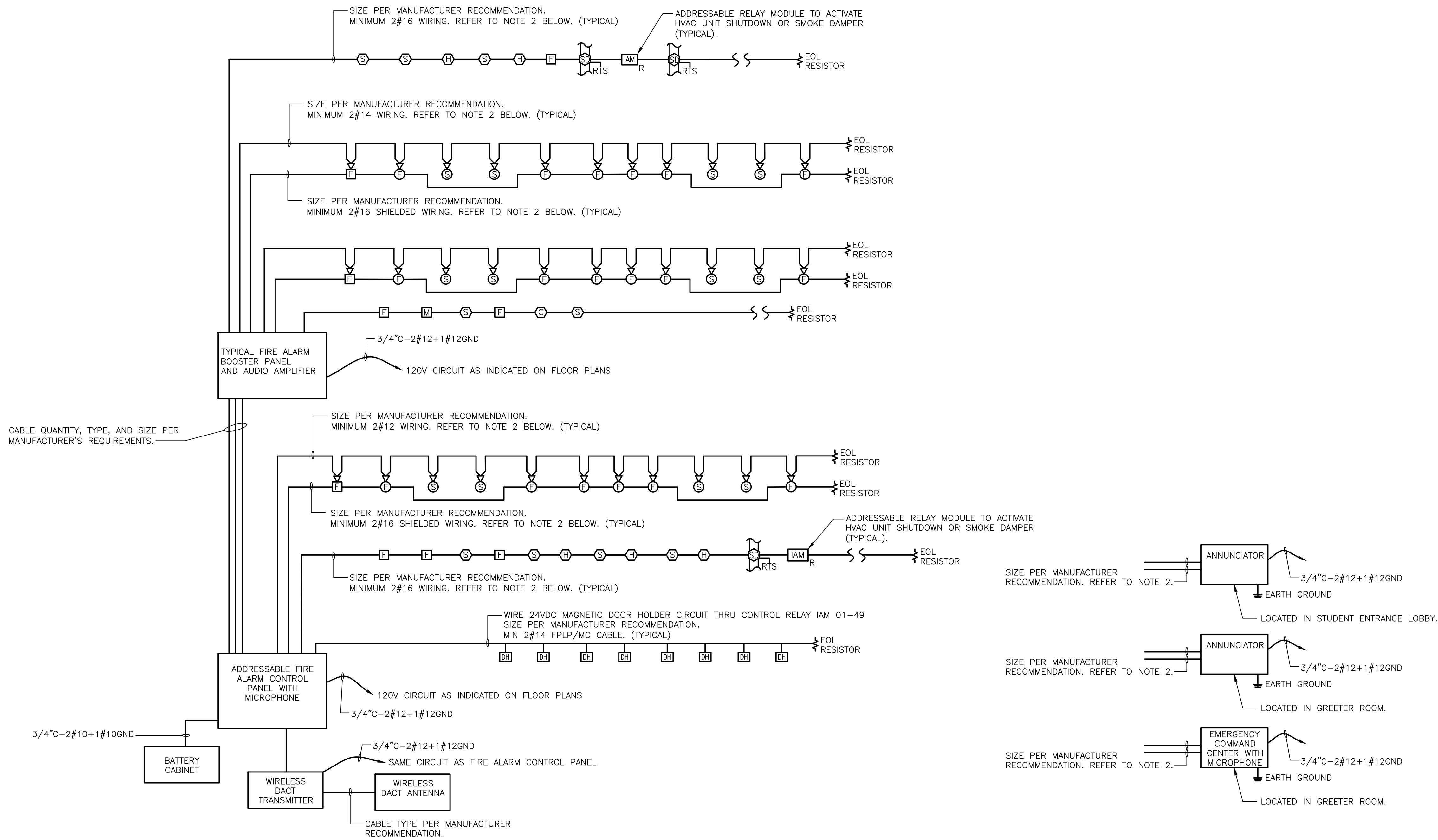
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267-402-3400

- NOTES:
1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWING E001.
 2. ALL WORK SHOWN ON THIS DRAWING IS TO BE NEW, UNLESS OTHERWISE NOTED AS EXISTING (E) OR RELOCATED (REL).

EVENT	ACTION					
	TROUBLE SIGNAL @ FACP & REMOTE ANNUNCIATORS	SUPERVISORY SIGNAL @ FACP & REMOTE ANNUNCIATORS	ALARM SIGNAL @ FACP & REMOTE ANNUNCIATORS	ACTIVATES ALL SPEAKER/STROBES	ACTIVATES ASSOCIATED SPEAKER/STROBES	SHUTDOWN ASSOCIATED HVAC UNIT
SMOKE/HEAT DETECTOR ACTIVATION		X	X	X		X
MANUAL PULL STATION ACTIVATION		X	X	X		
WATERFLOW SWITCH ACTIVATION		X	X	X		
TAMPER SWITCH ACTIVATION		X				
DUCT SMOKE DETECTOR ACTIVATION		X				X
NON-FIRE EMERGENCY ON-SITE						

2 FIRE ALARM EVENT MATRIX

E302 SCALE:NOT TO SCALE

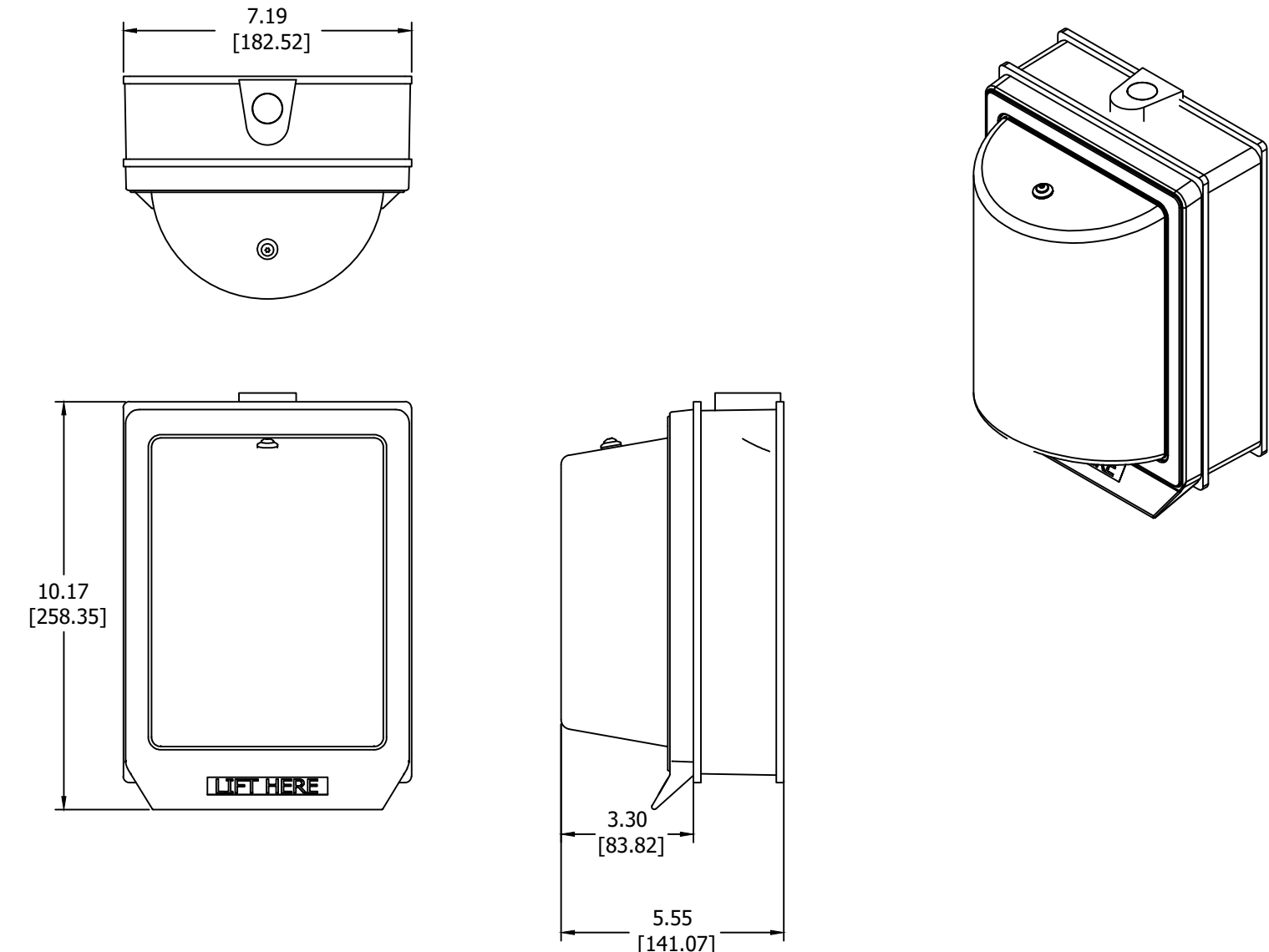


COMBINATION MASS NOTIFICATION AND FIRE ALARM SYSTEM NOTES:

1. FIRE ALARM / MASS NOTIFICATION SYSTEM BASIS OF DESIGN SHALL BE FIRE-LITE ES-200X ADDRESSABLE FIRE ALARM CONTROL PANEL WITH EMERGENCY COMMAND CENTER ECC-100.
2. ALL FIRE ALARM WIRING SHALL BE METAL-CLAD FPLP TYPE WHERE CONCEALED. ALL FIRE ALARM WIRING SHALL BE SIZED AS REQUIRED BY THE FIRE ALARM MANUFACTURER.
3. FIRE ALARM RISER DIAGRAM IS TYPICAL AND DOES NOT INDICATE FINAL QUANTITY OF DEVICES. REFER TO FLOOR PLANS AND SPECIFICATIONS FOR DEVICE QUANTITY AND LOCATIONS.
4. IN GENERAL, ALL REQUIRED FIRE ALARM SYSTEM WIRING IS NOT SHOWN ON THE PLAN DRAWINGS. INSTALLATION AND ROUTING OF THESE CIRCUITS AND WIRING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH FIELD CONDITIONS, FIRE ALARM DIAGRAMS, SPECIFICATIONS AND CODES.
5. LOCATIONS OF MASS NOTIFICATION AND FIRE ALARM DEVICES AND EQUIPMENT SHOWN ON THE PLAN DRAWINGS IS DIAGRAMMATIC. EXACT LOCATIONS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH FIELD CONDITIONS AND THE FOLLOWING:
 - a. CEILING MOUNTED DEVICES SHALL BE COORDINATED WITH SUSPENDED CEILING, LIGHT FIXTURES, SPEAKERS, DIFFUSERS, DUCTWORK, SPRINKLER HEADS, ETC., AND NFPA REQUIREMENTS.
 - b. WALL MOUNTED DEVICES SHALL BE COORDINATED WITH ALL OTHER WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL ITEMS SUCH AS TACK AND WHITE BOARD, WALL CONSTRUCTION, ETC., AND NFPA AND IBC REQUIREMENTS. WHEREVER POSSIBLE LOCATE WALL MOUNTED DEVICES ON WALLS WHICH WILL PERMIT DEVICES TO BE FLUSH OR SEMI-FLUSH MOUNTED. SURFACE MOUNTED DEVICES WILL BE PERMITTED ONLY IN MECHANICAL ROOMS AND WHERE APPROVED BY THE ENGINEER, ARCHITECT, AND OWNER.
6. A 100% TOTAL ACCEPTANCE TEST SHALL BE PERFORMED AT THE COMPLETION OF THE NEW FIRE ALARM SYSTEM INSTALLATION ASSOCIATED WITH THE NEW BUILDING ADDITIONS ACCORDING IBC 2018. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. DUCT SMOKE DETECTORS SHALL BE PROVIDED IN THE SUPPLY AND RETURN DUCTS OF EACH HVAC SYSTEM OVER 2,000 CFM AND AT LOCATIONS REQUIRED BY IMC/2018. WHERE POSSIBLE, EXISTING SAMPLING TUBES MAY REMAIN AND BE REUSED FOR NEW DUCT MOUNTED SMOKE DETECTOR.
8. PROVIDE A DEDICATED CONTROL RELAY MODULE FOR EACH DUCT SMOKE DETECTOR TO BE PROGRAMMED FOR SHUTDOWN SIGNAL OF HVAC SYSTEM TO INCLUDE FAN MOTOR(S) AND DAMPER(S). LOW VOLTAGE CONTROL WIRING BETWEEN CONTROL RELAY MODULES AND UNIT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
9. LOCATE REMOTE INDICATING LIGHT/TEST SWITCH ASSOCIATED WITH EACH DUCT SMOKE DETECTOR
 - MOUNTED IN ACCESSIBLE CEILING
 - WHERE LOCATED IN AREAS WITHOUT ACCESSIBLE CEILING MOUNT ON THE WALL AT 80" UNLESS OTHERWISE NOTED.
 - IN THE CORRIDORS MOUNT AT 9'-0" AFF MOUNTED TO CORRIDOR
 - ALL WORK SHALL COMPLY WITH THE APPLICABLE BUILDING CODE LOCAL ORDINANCE AND REGULATION, THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND NFPA 70 AND NFPA 72.
11. ALL CIRCUIT BREAKERS FEEDING FIRE ALARM PANELS AND POWER SUPPLIES SHALL BE MARKED RED.
12. ALL INITIATION AND NOTIFICATION CIRCUIT WIRING SHALL BE CLASS "B".

1 TYPICAL COMBINATION FIRE ALARM / MASS NOTIFICATION RISER DIAGRAM

E302 SCALE:NOT TO SCALE



NOTE: COVER SHALL STI MODEL #STI-1200 OR APPROVED EQUAL.

3 FIRE ALARM PULL STATION COVER DETAIL

E303 SCALE:NOT TO SCALE

SPARE COMPONENTS:

CONTRACTOR SHALL INCLUDE THE FOLLOW IN THE BASE CONTRACT BID:

1. ATTIC STOCK:
 - a. (5) SMOKE DETECTORS WITH STANDARD BASE
 - b. (2) CONVENTIONAL HEAT DETECTOR
 - c. (5) FIRE ALARM STROBES
 - d. (10) FIRE ALARM SPEAKER/STROBES
 - e. (5) ADDRESSABLE MONITOR MODULES
 - f. (5) ADDRESSABLE RELAY MODULES
 - g. (2) DUCT MOUNTED SMOKE DETECTOR HOUSING AND 60" LONG SAMPLING TUBE.
 - h. (2) REMOTE TEST STATION
 - i. (2) FIRE ALARM PULL STATION WITH PROTECTIVE COVER
2. FURNISH AND INSTALL 500' OF MC-FPLP ALARM CABLE AND 100' OF SURFACE METALLIC RACEWAY (WIREMOLD) AT THE DIRECTION OF THE ENGINEER, AS NEEDED FOR UNFORESEEN FIELD CONDITIONS.
3. ADDITIONAL PROGRAMMING OF ATTIC STOCK DEVICES, IF DETERMINED NECESSARY TO INSTALL DURING CONSTRUCTION.

4 SPARE COMPONENTS

E302 SCALE:NOT TO SCALE

ISSUE HISTORY

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SHEET TITLE

FIRE ALARM
RISER DIAGRAM
AND DETAILS

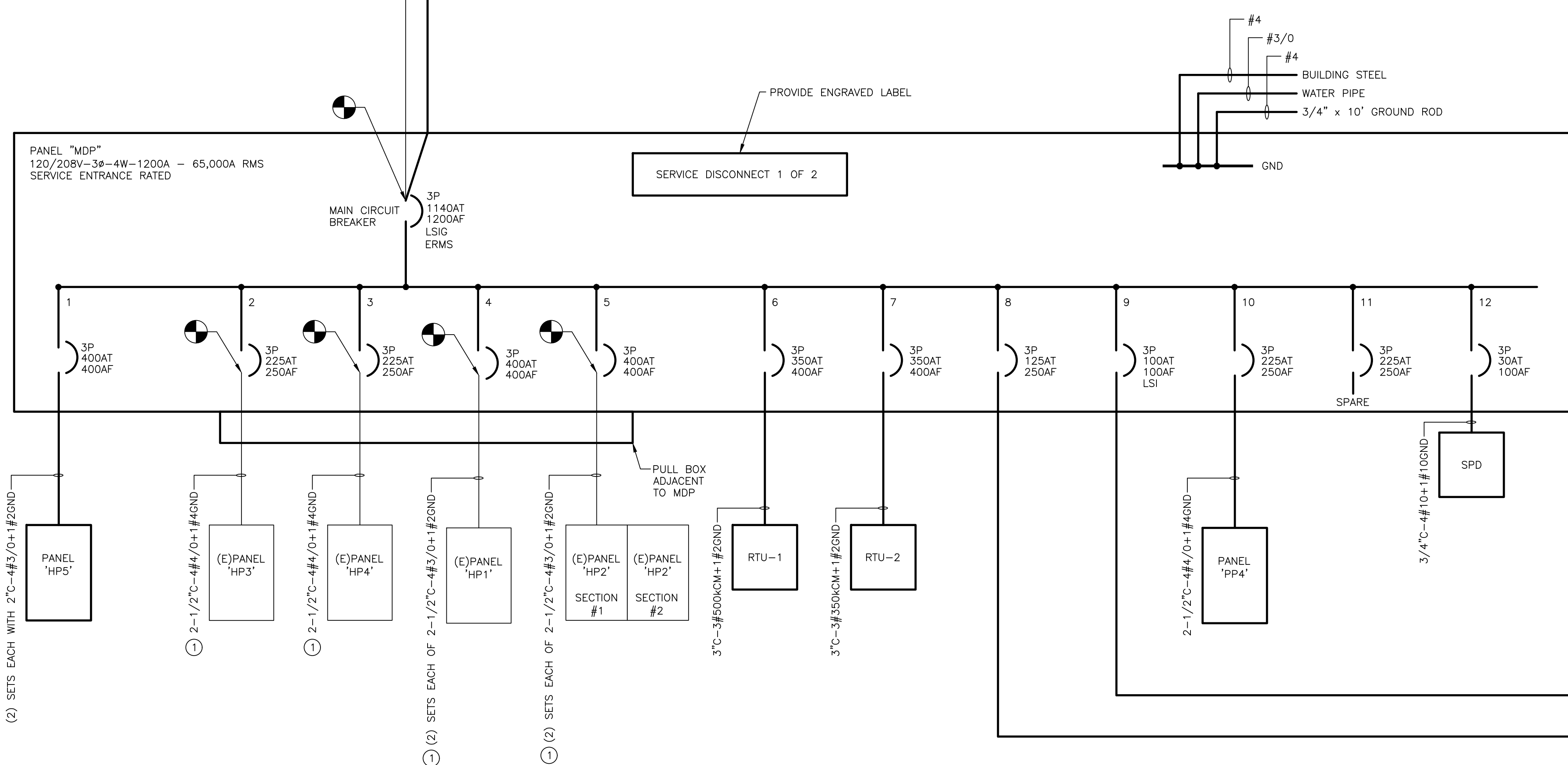
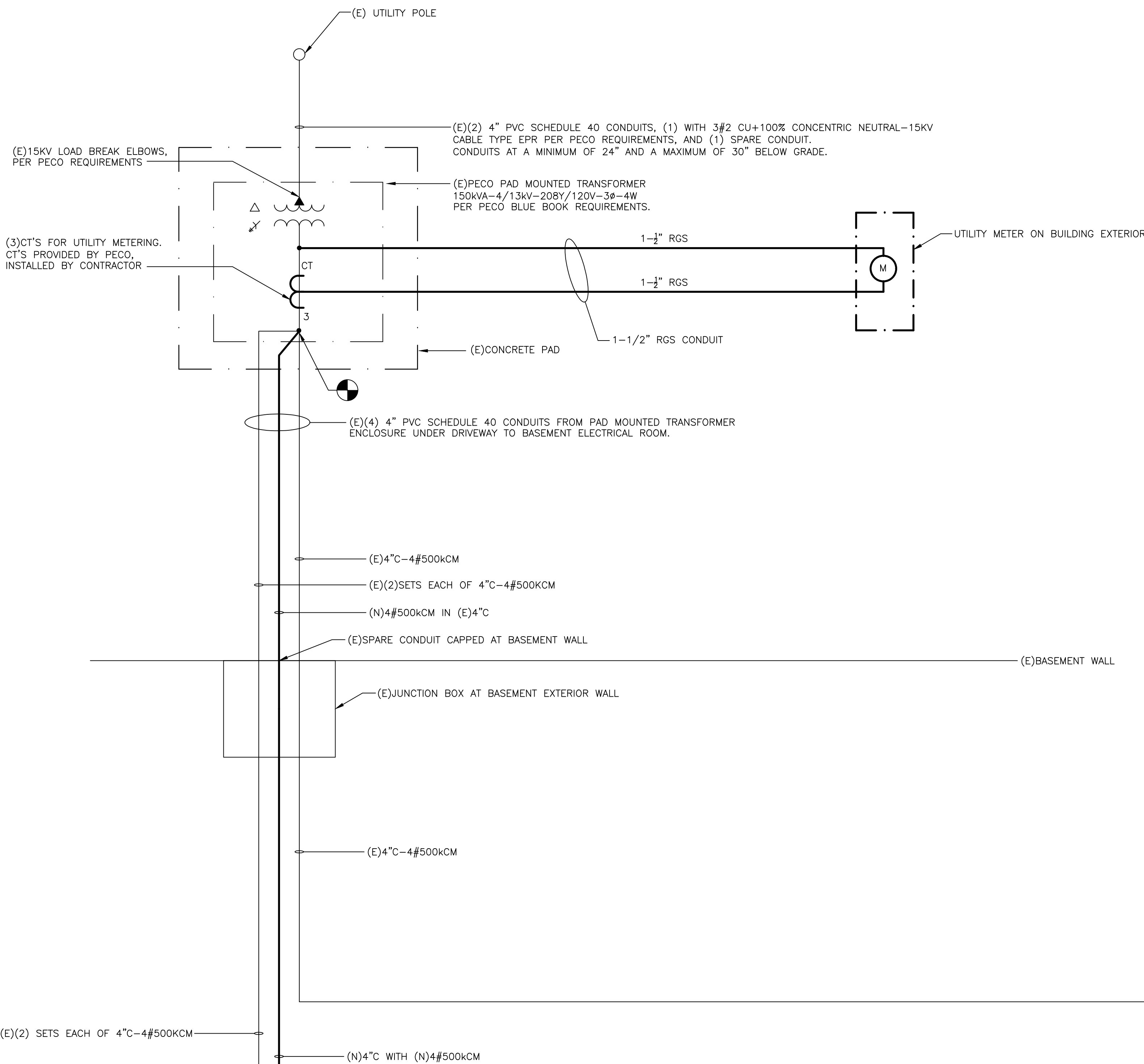
DRAWING NUMBER

E302

Load Description	Load (VA)	208V-3 Phase Load (A)	Continuous and Non-Continuous Load (A)
12-Month Peak Utility Demand	98444	274	342
Lighting (12.647 sqft at 3VA/sqft)	37,941	105	132
Receptacles (1st 10,000VA)	10,000	28	28
Receptacles (Remaining @ 50%)	8,500	24	24
Mechanical Load (Winter Peak Load) 70% Diversity	323,899	900	900
Building Service Total	380,340		1425

2 ELECTRICAL SERVICE CALCULATION

E401 NOT TO SCALE

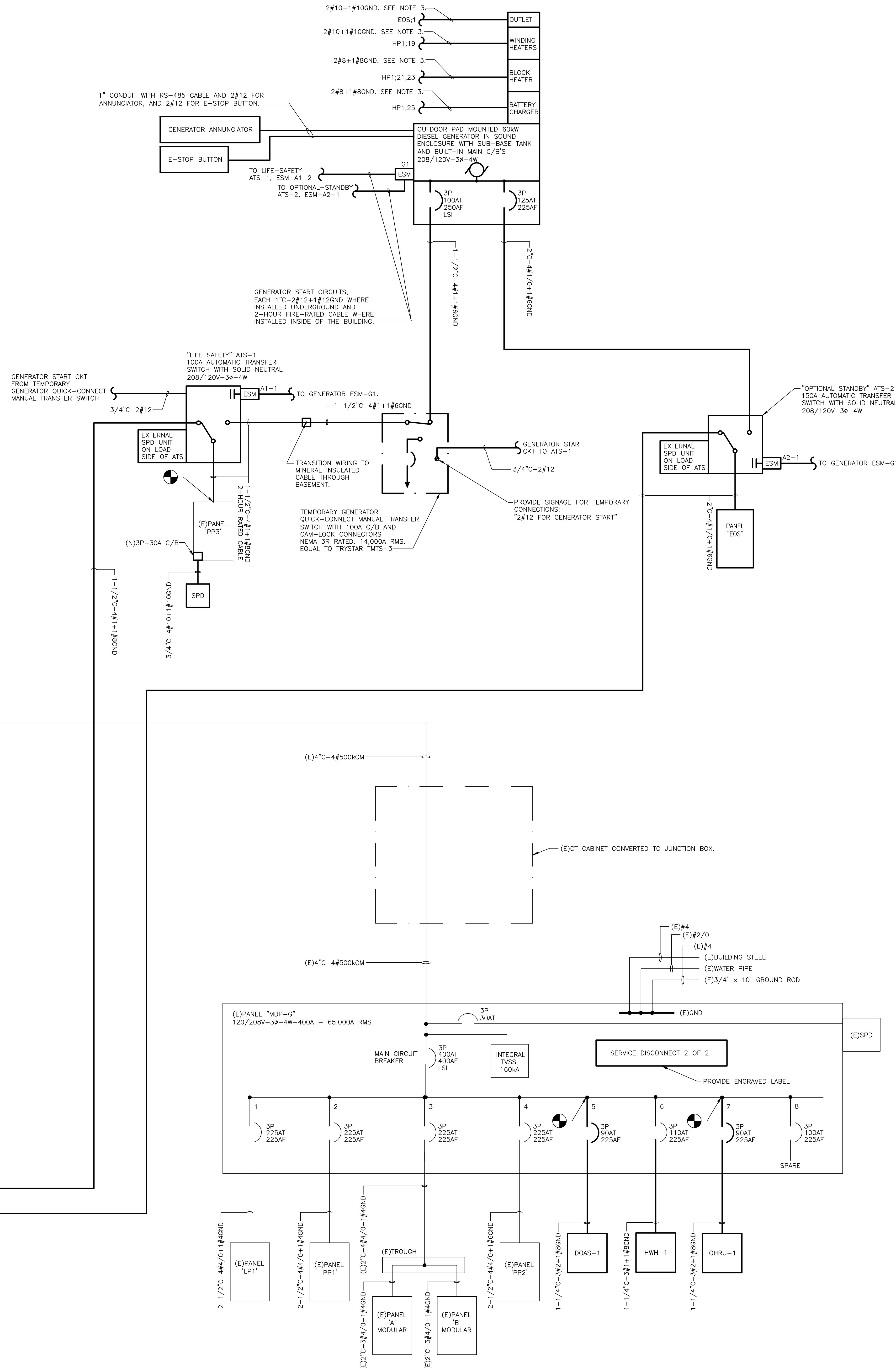


1 ELECTRICAL NEW WORK SINGLE LINE DIAGRAM

E401 NOT TO SCALE

- NOTES:
- FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWING E001.
 - ALL WORK SHOWN ON THIS DRAWING IS NEW WORK, UNLESS OTHERWISE NOTED AS EXISTING (E), REMOVE AND REINSTALL (RAR), OR RELOCATED (REL).
 - CIRCUIT SHALL BE RUN IN SHARED 2" CONDUIT.

- KEY NOTES:
- EXTEND (E)CONDUITS AS REQUIRED TO (N)PULL BOX ADJACENT TO PANEL "MDP", PULL (E)CABLES THRU (E)CONDUITS AND (N)CONDUIT EXTENSIONS AND TERMINATE IN (N)PANEL.



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SHEET TITLE

