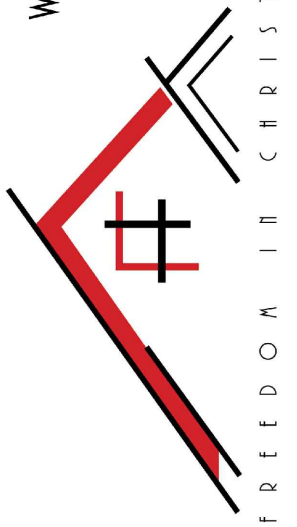


REVISIONS	BY

WINTER JR. ARCHITECT, INC.  
PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@winterarchitect.com  
www.winterarchitect.com

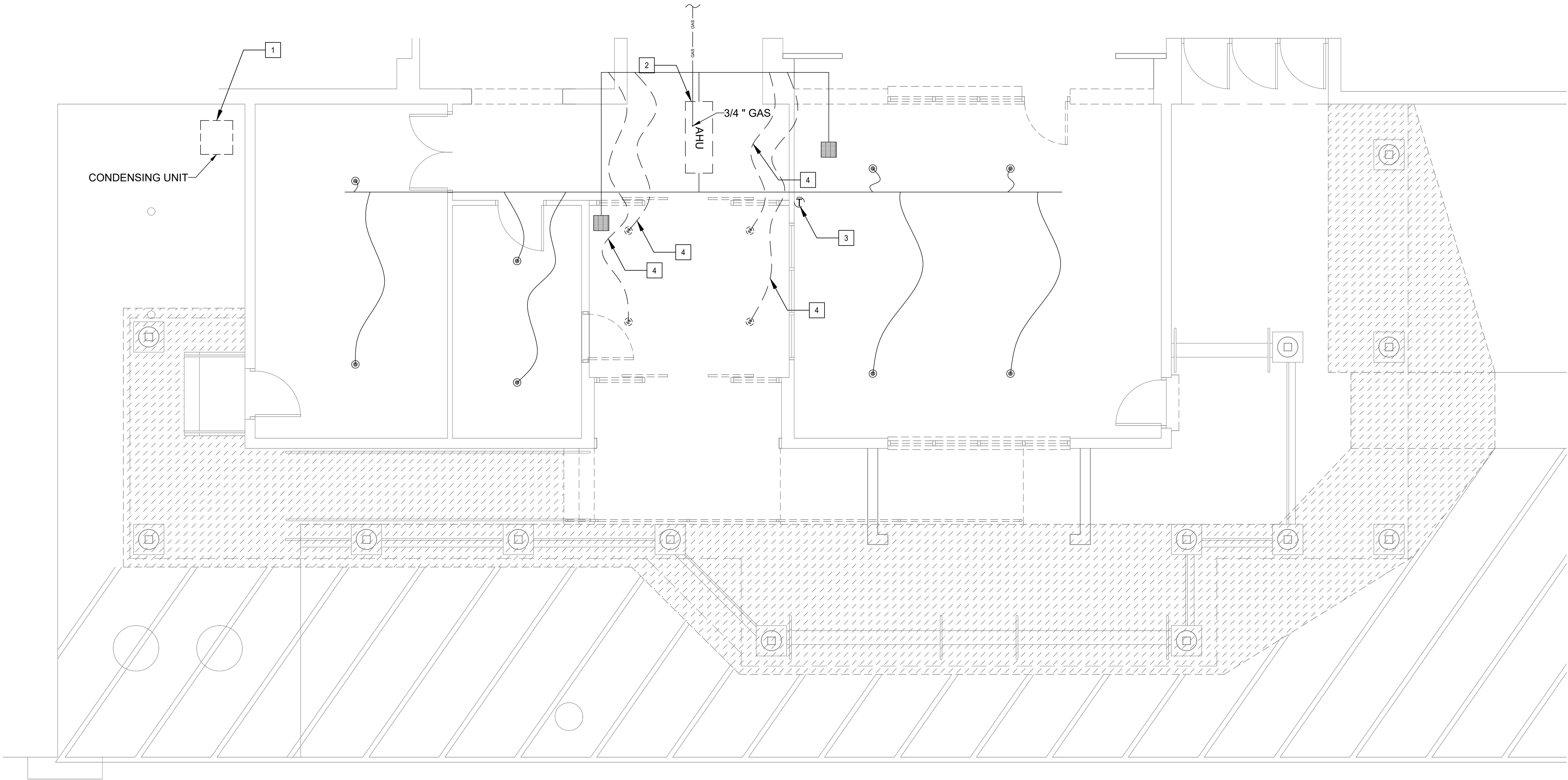
  
F E E T D O N I I C H I T E C T

ADDITIONS AND RENOVATIONS TO  
**MODERN MATURITY CENTER:**  
**LONGWOOD ENTRANCE**  
1121 FORREST AVENUE  
DOVER, DELAWARE 19904

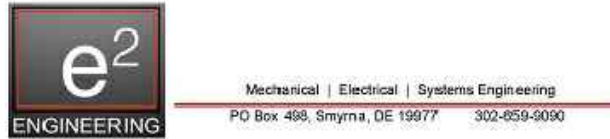
MECHANICAL  
- HVAC  
DEMOLITION  
PLAN

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CHECKED EAU
DATE 14 JUNE 2024
SCALE NOTED
DWG NO. C1366-0919
SHEET MD-1
OF SHEETS

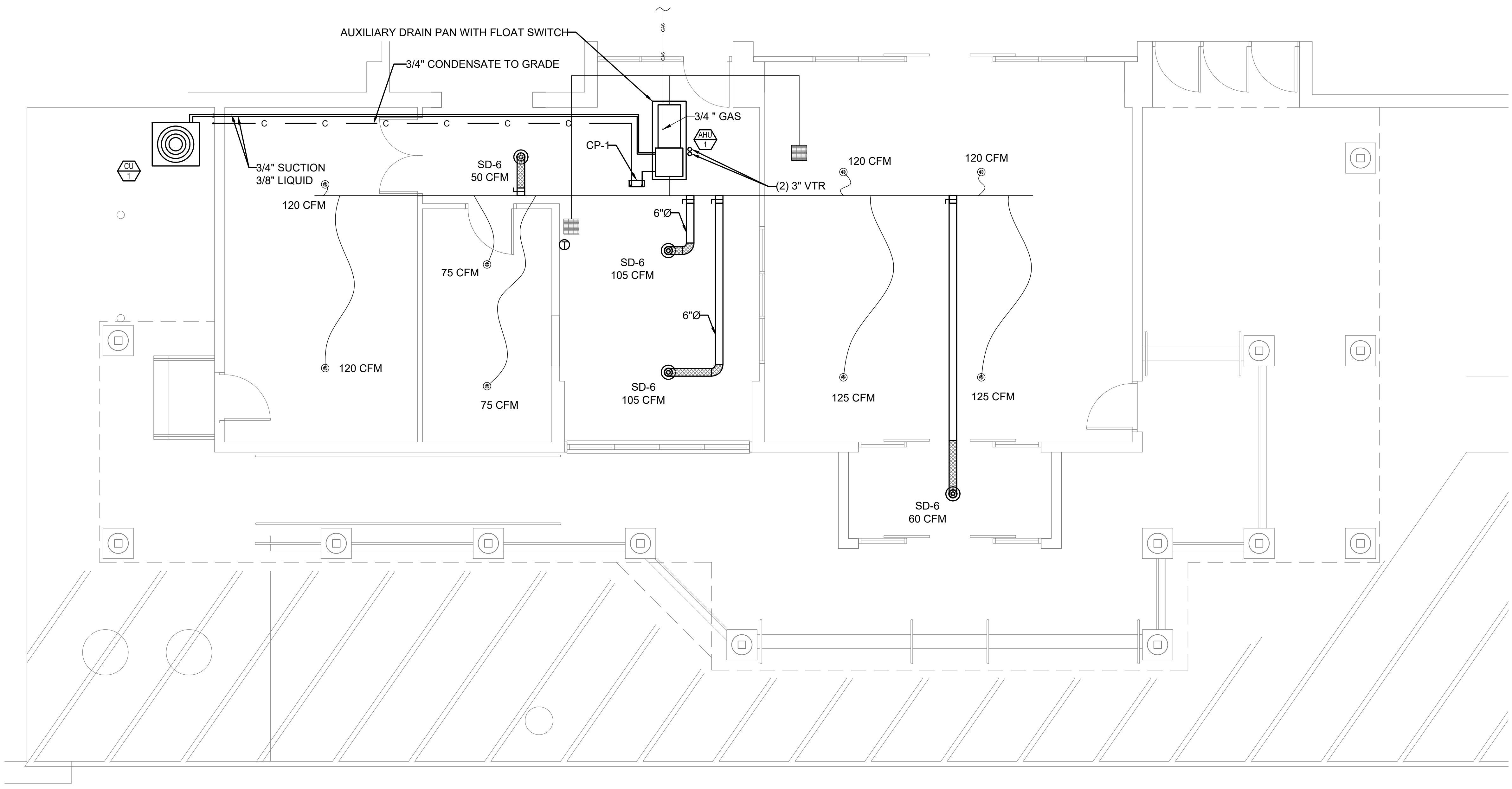
DEMOLITION NOTES (APPLIES TO THIS DRAWING)	
1	REMOVE EXISTING CONDENSING UNIT AND REFRIGERANT PIPING COMPLETE.
2	REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED PIPING COMPLETE.
3	REMOVE EXISTING THERMOSTAT AND WIRING COMPLETE.
4	REMOVE EXISTING DUCT AND DIFFUSER COMPLETE.



1  
MD-1  
MECHANICAL - HVAC DEMOLITION PLAN  
SCALE: 1/4"=1'-0"







1  
M-1

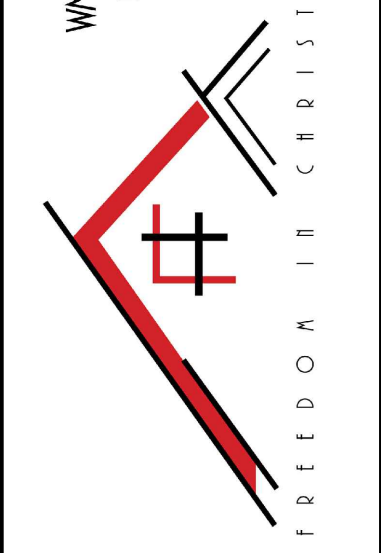
**MECHANICAL - HVAC NEW WORK PLAN**  
SCALE: 1/4"=1'-0"



Mechanical | Electrical | Systems Engineering  
PO Box 406, Smyrna, DE 19955 302-459-9200

REVISIONS	BY

W. BYLER JR. ARCHITECT, INC.  
PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@wbylerarchitect.com  
www.wbylerarchitect.com



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**MECHANICAL**  
**- HVAC NEW**  
**WORK PLAN**

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**M-1**

OF SHEETS



MECHANICAL NOTES		
1. GENERAL NOTES: THESE GENERAL NOTES APPLY TO ALL MECHANICAL DRAWINGS.	EQUIPMENT.	20. CONTROLS: MOUNT AND WIRE SENSORS AND THERMOSTATS TO CONTROL HEATING AND COOLING SYSTEMS AT 48" AFF (ADA).
2. CODES: ALL WORK SHALL CONFORM WITH THE 2009 INTERNATIONAL MECHANICAL CODE, 2018 INTERNATIONAL ENERGY CONSERVATION CODE, 2018 INTERNATIONAL FUEL GAS CODE, NFPA, NEC, CITY OF DOVER AND STATE OF DELAWARE CODES, ORDINANCES AND REGULATIONS AND SHALL MEET OR EXCEED THE LATEST VERSIONS OF ASHRAE & SMACNA RECOMMENDATIONS.	10. DUCTWORK: DUCT FITTINGS ARE INDICATED SYMBOLICALLY. REFER TO DETAILS FOR CONFIGURATION OF FITTINGS, TAPS AND CONNECTIONS. DUCT CONSTRUCTION SHALL COMPLY WITH SMACNA CONSTRUCTION STANDARDS (LATEST EDITION).	21. EQUIPMENT INSTALLATION: INSTALL ALL EQUIPMENT LEVEL AND PLUMB. PROVIDE BLOCKING AND MOUNTING HARDWARE AS REQUIRED.
3. SYMBOLS: NOT ALL SYMBOLS, ABBREVIATIONS AND NOTES MAY BE USED FOR THIS PROJECT.	11. FLEXIBLE DUCTWORK: FLEXIBLE DUCTWORK SHALL NOT EXCEED FIVE (5) FEET IN LENGTH. FLEXIBLE DUCTWORK SHALL BE PREFABRICATED INSULATED TYPE WITH VAPOR BARRIER. TOTAL LENGTH SHALL NOT EXCEED 8'-0".	22. EXPOSED PIPE INSULATION: PROVIDE UV PROTECTIVE COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.
4. COORDINATION: WORK SHALL BE COORDINATED WITH ALL OTHER TRADES. ROUTING OF DUCTWORK AND PIPING ARE INDICATED TO SHOW GENERAL INTENT. CLEARANCES BETWEEN CEILING AND STRUCTURE ARE MINIMAL IN SEVERAL LOCATIONS. COORDINATE WITH OTHER TRADES PRIOR TO FABRICATION OF WORK.	12. DUCT DIMENSIONS: ALL DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.	23. DUCT INSULATION: ALL DUCTS SHALL BE EXTERNALLY INSULATED WITH R-6 INSULATION AND R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING ENVELOPE. INSULATE EXHAUST DUCTS FROM SHOWER AREAS WHERE LOCATED OUTSIDE THE BUILDING ENVELOPE.
5. INTERFERENCE: PROVIDE OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED TO AVOID INTERFERENCE AT NO ADDITIONAL COST TO THE OWNER.	13. DUCTWORK SHOP DRAWINGS: PROVIDE DUCTWORK SHOP DRAWINGS INDICATING DUCT ROUTING, SIZES AND ELEVATIONS FOR COORDINATION WITH OTHER TRADES.	24. HARDWARE: PROVIDE ALL REQUIRED HARDWARE, EQUIPMENT RAILS AND ROOF CURBS TO SECURELY MOUNT ALL OUTDOOR EQUIPMENT.
6. FINAL CONNECTIONS: VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. PROVIDE TRANSITIONS TO FINAL TO EQUIPMENT. MAKE FINAL CONNECTION TO EQUIPMENT, UNLESS OTHERWISE INDICATED. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF WORK.	14. WEIGHT LOADS: CONCENTRATE LOADS AT JOIST/BEAM LOCATIONS. PROVIDE ANGLE BRACES WHERE CONCENTRATED LOADS OCCUR AT OTHER LOCATIONS.	25. COMMISSIONING: THE CONTRACTOR SHALL COMMISSION THE HVAC SYSTEMS BASED ON MANUFACTURER'S RECOMMENDATIONS AND A PLAN DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE OWNER WHICH WILL INCLUDE BALANCING OF THE AIR SYSTEMS, TESTING ALL CONTROLS AND EQUIPMENT.
7. SUPPLY AND RETURN LOCATIONS: EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE REFLECTED CEILING PLANS BEFORE INSTALLATION. PROVIDE SYMMETRY WITH THE ROOM LIGHTING SYSTEMS. IN CASE OF ANY CONFLICT CONTACT THE DESIGN TEAM.	15. DUCT TURNS: USE RADIUS DUCTWORK ELBOWS WHERE POSSIBLE. PROVIDE TURNING VANES FOR SQUARE ELBOWS IN SUPPLY AIR DUCTWORK AND AS INDICATED.	26. DUCT SEALING: ALL INTERIOR DUCTWORK SHALL BE SEALED WITH MASTIC AND INSULATED WITH A MINIMUM R-6 INSULATION. CONCEALED INSULATION SHALL BE FIBERGLASS DUCT WRAP WITH FOIL FACE.
8. SUPPLY AND RETURN FRAMES: VERIFY DIFFUSER, GRILLE AND REGISTER MOUNTING FRAME TYPES WITH THE CEILING TYPES. MATCH FRAME TYPE WITH CEILING CONFIGURATION.	16. NATURAL GAS PIPING: PROVIDE SCH 40 METALLIC PIPING FOR OUTDOOR, CCST PIPING FOR INDOOR AND PE FOR UNDERGROUND PIPING, SIZED PER THE 2018 IFGC. FIELD VERIFY PIPE SIZES AND LENGTHS WITH MANUFACTURER.	27. FLASHING: PROVIDE WATER TIGHT FLASHING AT ALL EXTERIOR DUCT AND INTAKE/EXHAUST PENETRATIONS. MATCH COLOR WITH BUILDING.
9. ACCESS PANELS: PROVIDE ACCESS DOORS OR PANELS FOR DUCT-MOUNTED FIRE OR FIRE & SMOKE DAMPERS, SMOKE DETECTORS, VALVES AND OTHER CONCEALED	17. CONDENSATE PIPING: ALL CONDENSATE PIPING SHALL BE SCH 40 PVC. INSULATE WITH 3/4" CLOSED CELL INSULATION.	28. SCREENS: PROVIDE PROPERLY SIZED PERMANENTLY ATTACHED CORROSION RESISTANT BIRD SCREENS FOR ALL HVAC EQUIPMENT EXTERIOR WALL OR ROOF PENETRATIONS.
	18. FIRE PROTECTION: FIRE-SAFE PIPE AND DUCTWORK PENETRATIONS OF ALL FIRE RATED AND SMOKE RESISTIVE CONSTRUCTION IN ACCORDANCE WITH NFPA 90A.	29. MANUALS: PROVIDE (2) SETS OF OPERATION AND MAINTENANCE MANUALS TO OWNER.
	19. LIFE SAFETY: COORDINATE WITH LIFE-SAFETY PLANS.	

SPLIT SYSTEM SCHEDULE																			
				COOLING						NATURAL GAS				INDOOR UNIT			OUTDOOR UNIT		
TAG	CFM	OA CFM	HP	INPUT MBH	EAT	LAT	STAGES	SEER	STAGES	OUTPUT MBH	EAT	LAT	VOLTAGE	MCA	MOCP	VOLTAGE	MCA	MOCP	MFGR
AHU-1/CU-1	1200	85	0.75	60	76/64	56.6/54.3	2	16	2	60	63.9	110	120-1-60	10.3	15	208-230/3/60	18.4	30	TRANE
																			MODEL
																			4TTR6036N1000A + 4TXCB004DS3HCC + S9X2B060U4PSBA

NOTES:  
1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.  
2. PROVIDE 2-STAGE COMPRESSOR.

GRD SCHEDULE							
TAG	TYPE	NECK	FACE	MATERIAL	COLOR	MFGR	MODEL
SD-6	ROUND SUPLY DIFFUSER	6"Ø	11-1/8"Ø	ALUMINUM	WHITE	TUTTLE & BAILEY	P3

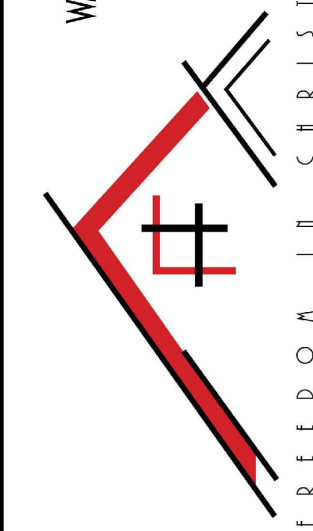
CONDENSATE PUMP						
TAG	MANUFACTURER	MODEL	HP	VOLTAGE	WATTS	AMPS
CP-1	LITTLE GIANI	VCA-20-P-SERIES	1/30	115	93	1.5



Mechanical | Electrical | Systems Engineering  
PO Box 406, Smyrna, DE 19077 302-459-9200

REVISIONS	BY

WINTER JR. ARCHITECT, INC.  
PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@winterjrarchitect.com  
www.winterjrarchitect.com

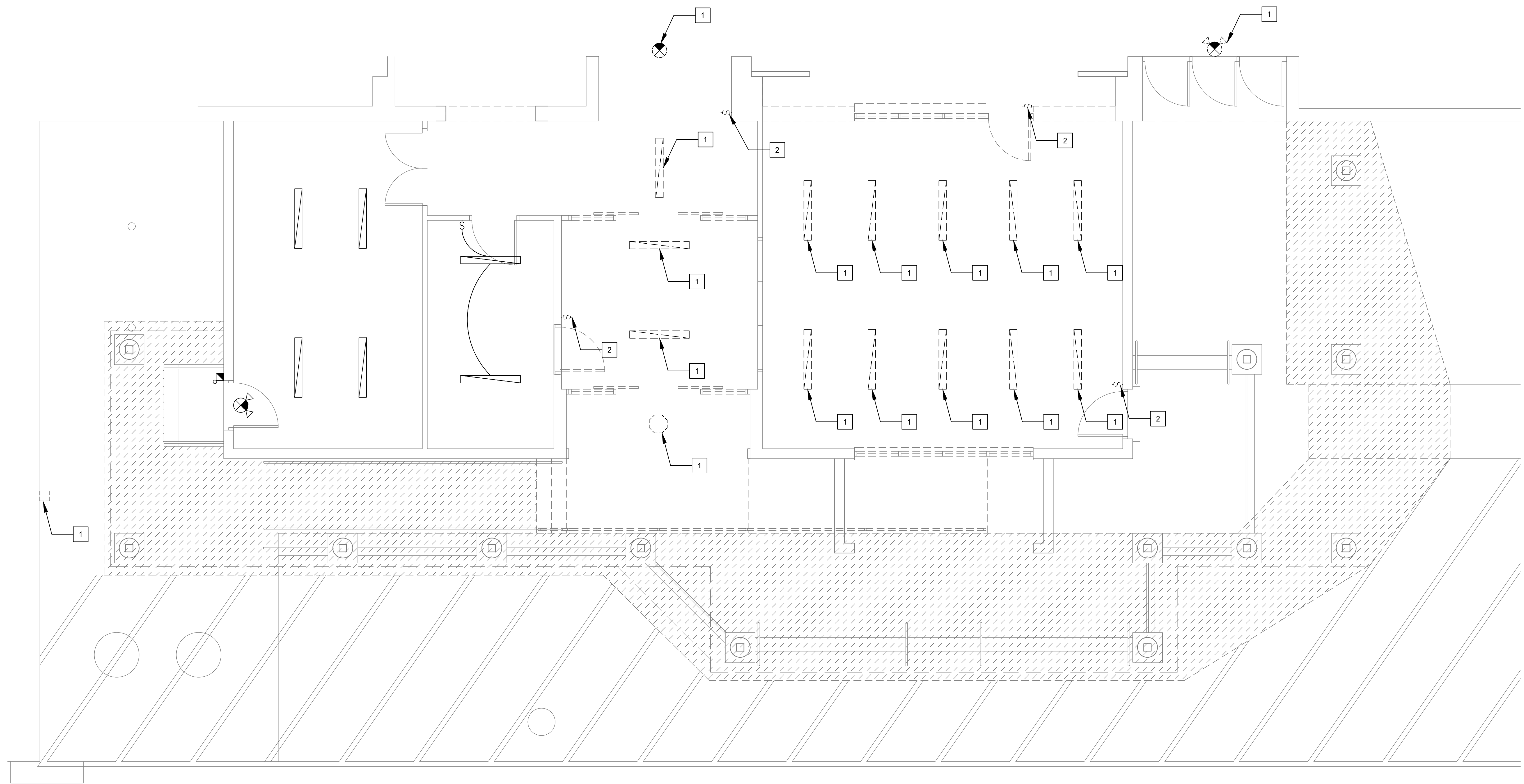


ADDITIONS AND RENOVATIONS TO  
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MECHANICAL  
- SCHEDULES  
& NOTES

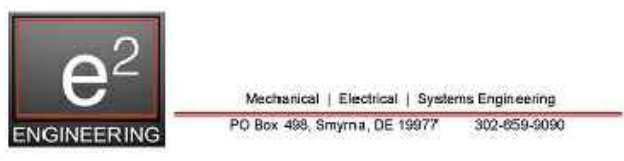
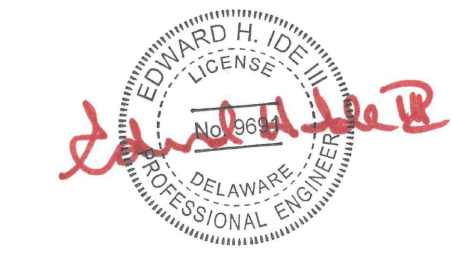
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SHEET
M-2
OF SHEETS





DEMOLITION NOTES	
(APPLIES TO THIS DRAWING)	
1	REMOVE EXISTING LIGHT FIXTURE.
2	REMOVE EXISTING SWITCH.

1  
ED-1  
ELECTRICAL - LIGHTING DEMOLITION PLAN  
SCALE: 1/4"=1'-0"



REVISIONS	BY

WIMBYLER JR. ARCHITECT, INC.  
PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@wimbylerarchitect.com  
www.wimbylerarchitect.com

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FREEDOM IN DESIGN

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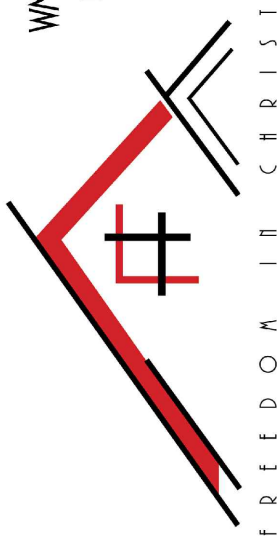
ELECTRICAL -  
LIGHTING  
DEMOLITION  
PLAN

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REVISIONS	BY

WILBY JR. ARCHITECT, INC.  
PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@wilbyjrarchitect.com  
www.wilbyjrarchitect.com

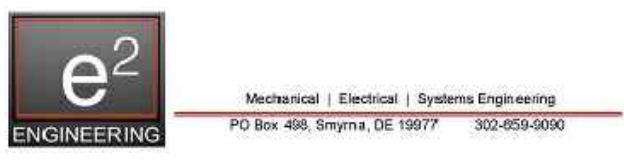
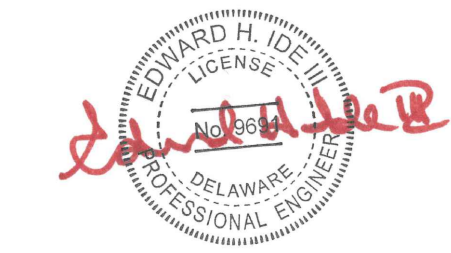
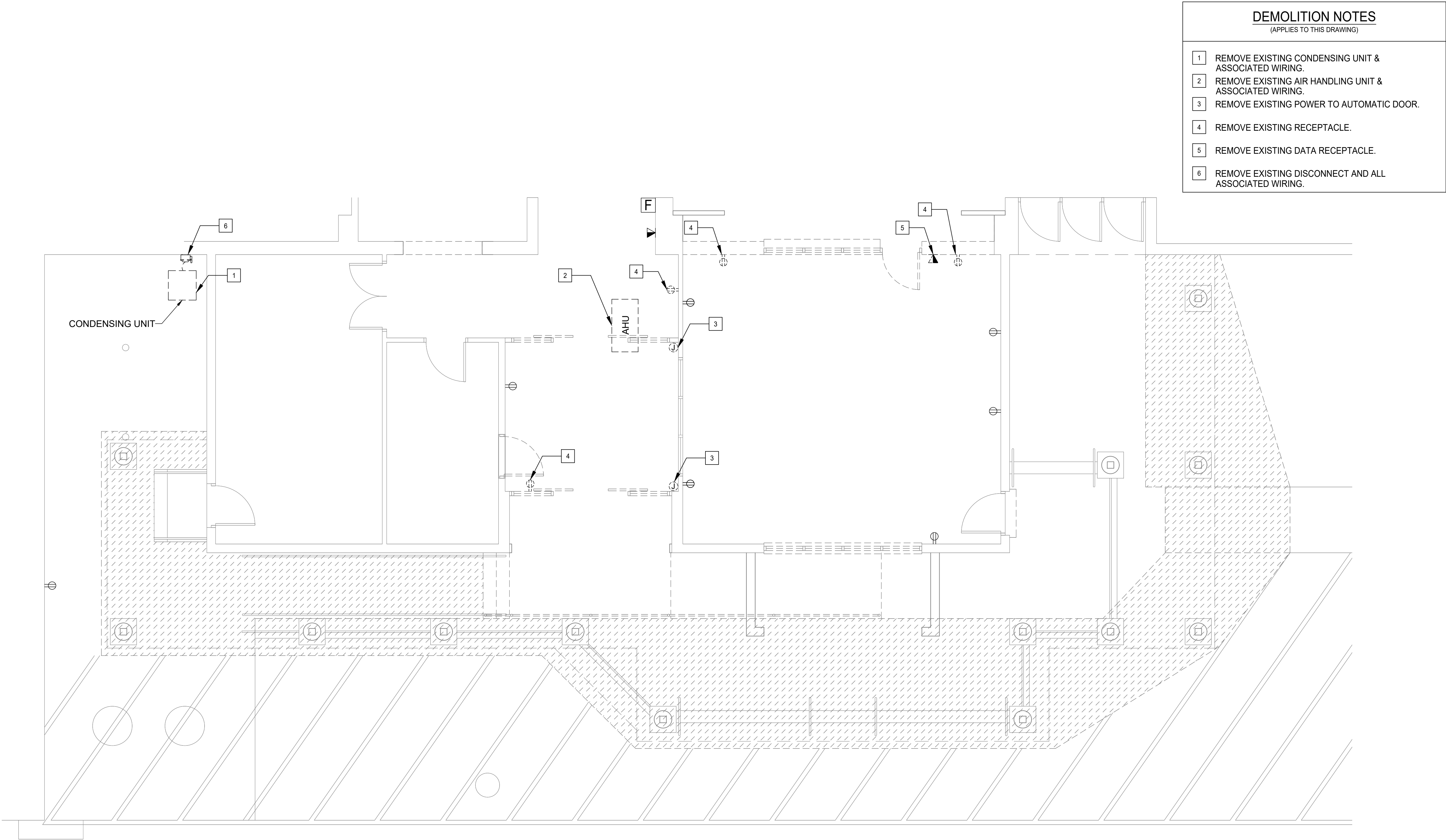


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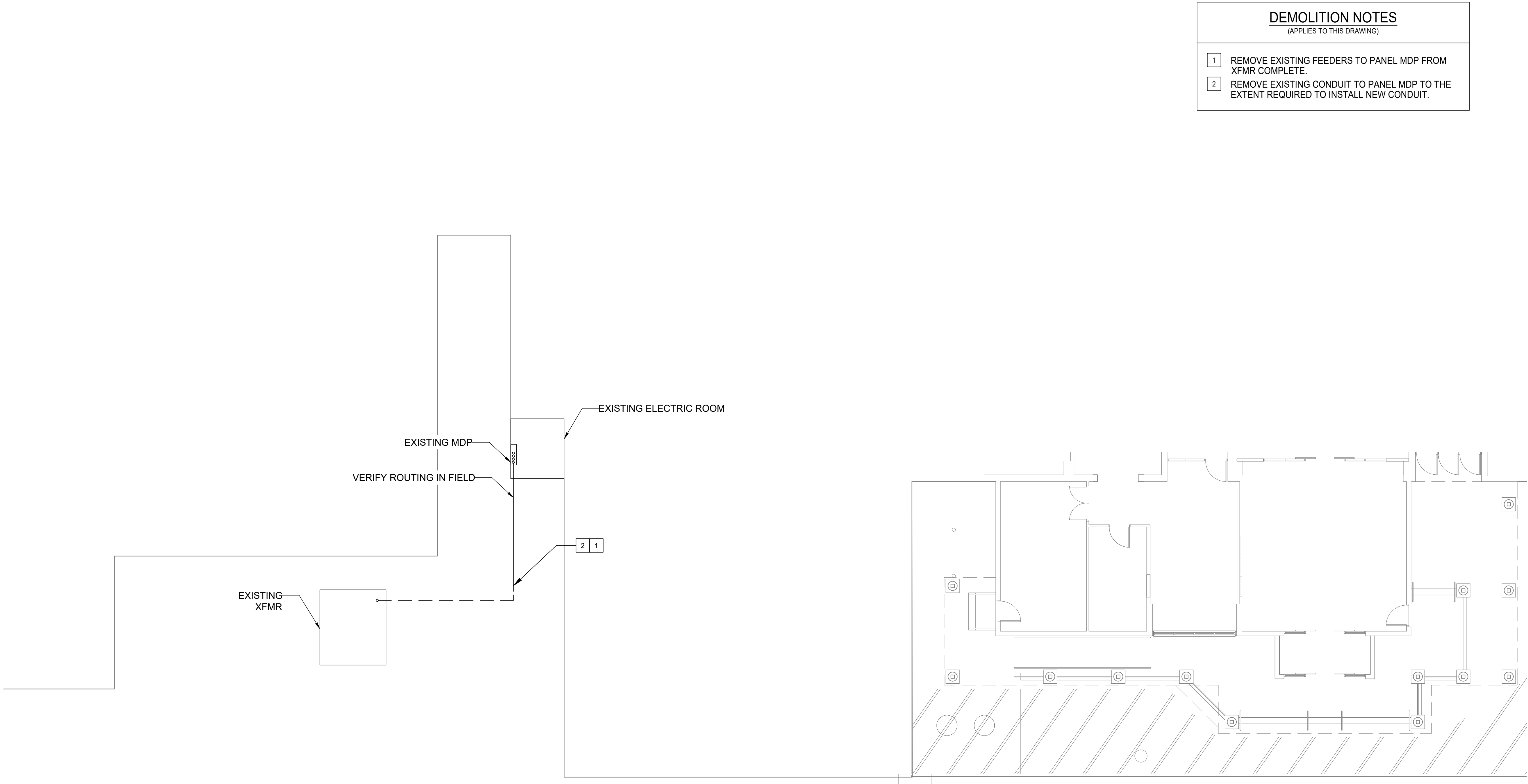
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ELECTRICAL -  
POWER  
DEMOLITION  
PLAN

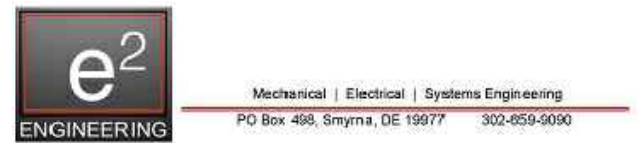
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SCALE NOTED
JOB NO. C1366-0919
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OF SHEETS







1  
ED-3  
ELECTRICAL - NEW SERVICE DEMOLITION PLAN  
SCALE: 1/8"=1'-0"



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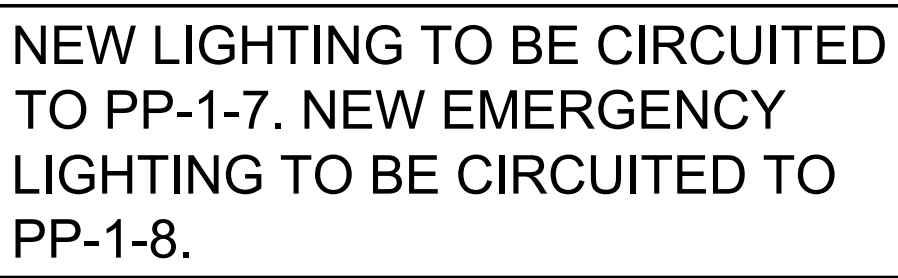
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PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@wimblyerarchitect.com  
www.wimblyerarchitect.com

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ELECTRICAL -  
POWER NEW  
WORK PLAN

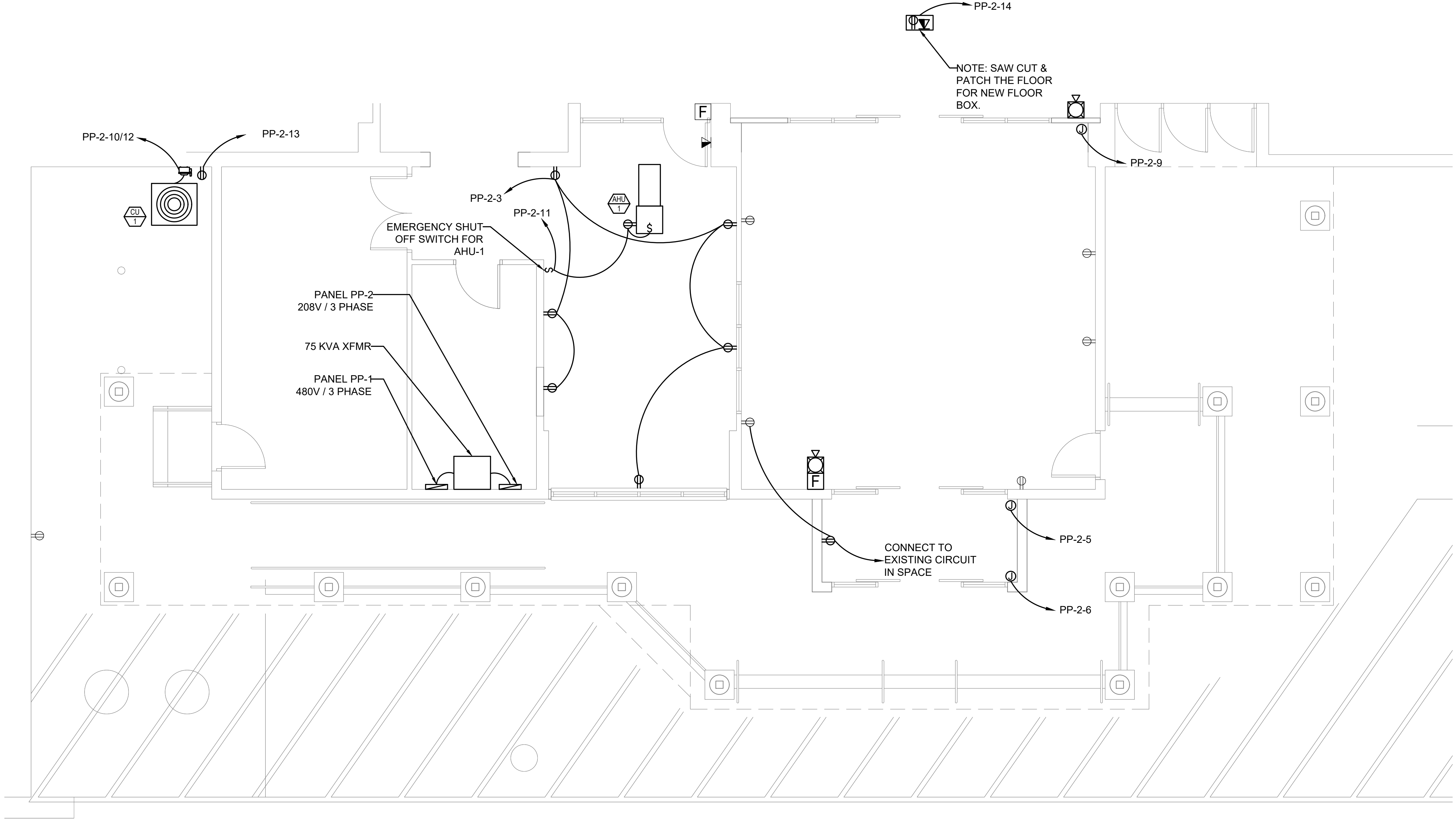
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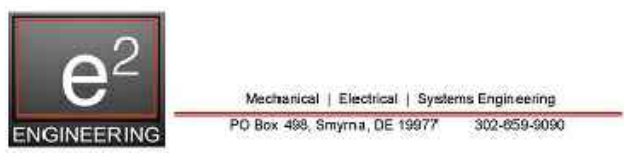
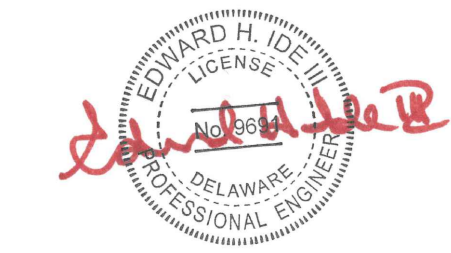


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LICENSE  
No. 9684  
DELAWARE  
PROFESSIONAL ENGINEER





1  
E-2  
ELECTRICAL - POWER NEW WORK PLAN  
SCALE: 1/4"=1'-0"



REVISIONS	BY

WINTER JR. ARCHITECT, INC.  
PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@winterjrarchitect.com  
www.winterjrarchitect.com

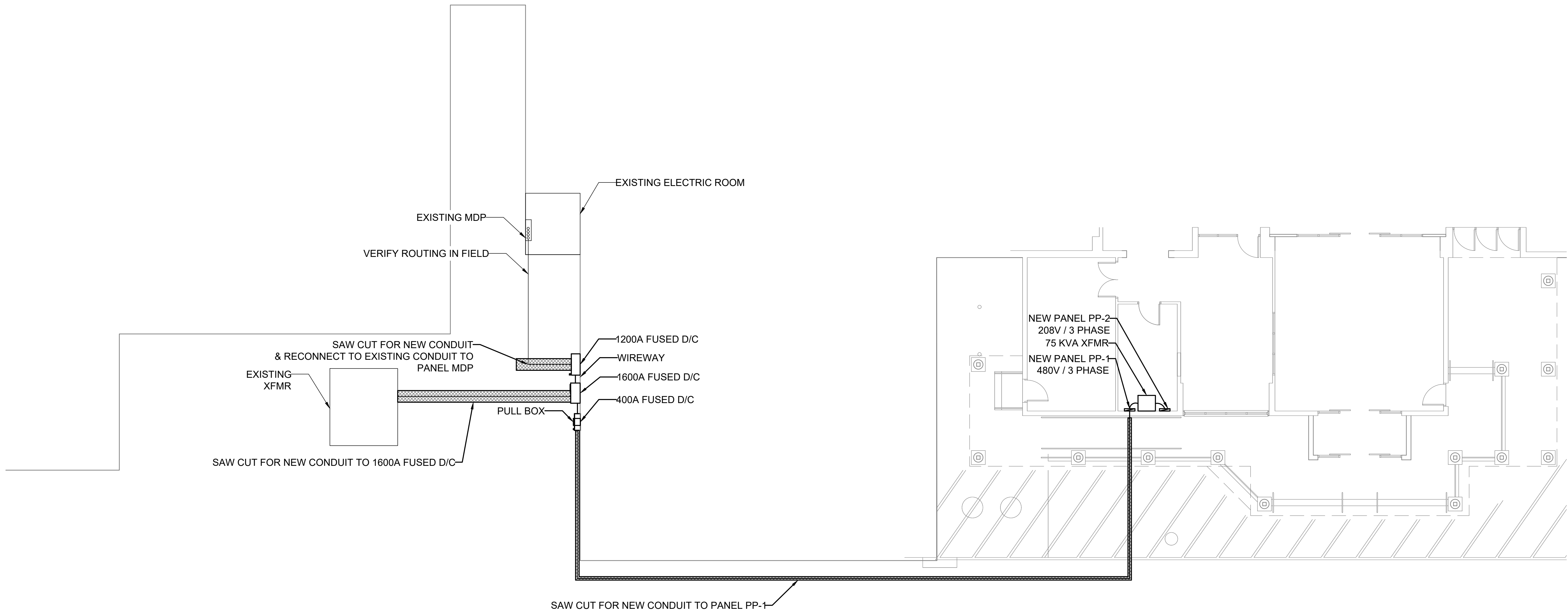
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**ELECTRICAL -  
POWER NEW  
WORK PLAN**

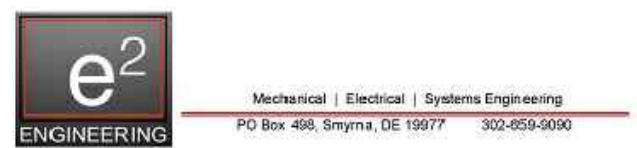
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SHEET <b>E-2</b>
OF SHEETS





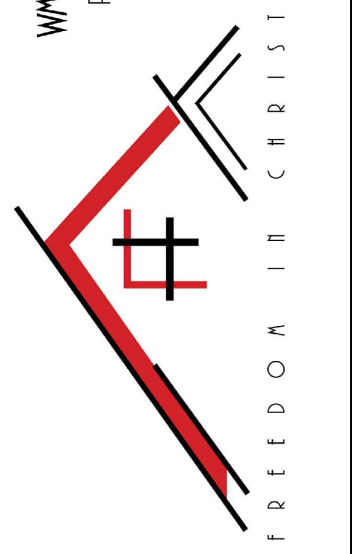
1  
E-3

**ELECTRICAL - NEW SERVICE PLAN**  
SCALE: 1/8"=1'-0"



REVISIONS	BY

WINTER JR. ARCHITECT, INC.  
PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@winterjrarchitect.com  
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SHEET

**E-3**

OF SHEETS



GENERAL ELECTRICAL NOTES:

1.

CODES: ALL ELECTRICAL WORK SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE, UNDERWRITERS LABORATORIES, NATIONAL BOARD OF UNDERWRITERS, NFPA, AND ANY STATE, COUNTY, OR MUNICIPAL LAWS OR REGULATIONS HAVING JURISDICTION. ALL MATERIAL AND EQUIPMENT SHALL BE APPROVED FOR THE INTENDED USE. THIS IS IN ADDITION TO COMPLYING WITH OTHER SPECIFIC DIRECTION PROVIDED IN THESE DOCUMENTS. NO EXTRAS WILL BE APPROVED TO COMPLY WITH THE APPLICABLE CODES.
2.

INSPECTIONS: THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR THE COMPLETION OF HIS WORK. THE ELECTRICAL CONTRACTOR SHALL ARRANGE AND PAY FOR ALL INSPECTIONS AND TESTS REQUIRED BY THE ABOVE AGENCIES. HE SHALL FURNISH REQUIRED CERTIFICATES OF INSPECTION TO THE OWNER, INCLUDING THE ELECTRICAL CERTIFICATE FROM FIRST STATE INSPECTION AGENCY.
3.

CONTRACTOR'S RESPONSIBILITY: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL LABOR, TOOLS, MATERIALS, AND SUPERVISION TO COMPLETE ALL THE ELECTRICAL WORK AS SHOWN AND DESCRIBED ON THE DRAWINGS. ALL INCIDENTAL MATERIALS NORMALLY REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM, ALTHOUGH NOT SPECIFICALLY IDENTIFIED ON THESE DRAWINGS, ARE UNDERSTOOD TO BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL WORK INCLUDING MATERIALS IS SUBJECT TO APPROVAL OF THE OWNER. ANY QUESTIONS PERTAINING TO THESE NOTES OR LOCATIONS OF EQUIPMENT AND DEVICES, OR CONFLICTS IN DOCUMENTS, MUST BE RESOLVED BY THE ENGINEER.
4.

WORKMANSHIP: ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER IN CONFORMANCE WITH THE N.E.C. BY SKILLED MECHANICS, USING THE BEST METHODS KNOWN TO THE TRADE, AND SHALL PRESENT A NEAT AND PROFESSIONAL APPEARANCE WHEN COMPLETED. FINAL LOCATIONS OF ALL EXPOSED DEVICES ARE SUBJECT TO THE APPROVAL OF THE OWNER. ALL ELECTRICAL DEVICES MUST BE ACCESSIBLE AND CONFORM TO MOUNTING HEIGHTS AND CLEARANCES REQUIRED BY THE N.E.C. AND ADA. MATERIALS NOT INSTALLED TO THE SATISFACTION OF THE OWNER MUST BE REARRANGED AT NO ADDITIONAL COST TO THE OWNER.
5.

OWNER'S RIGHTS: THE OWNER RESERVES THE RIGHT TO CHANGE, WITHOUT ADDITIONAL COST, THE LOCATION OF ANY OUTLET, LIGHT FIXTURE, OR APPARATUS SPECIFIED OR SHOWN ON THE DRAWINGS, PROVIDED SUCH CHANGE DOES NOT ADD MORE THAN 10'-0" TO THE CONDUIT AND/OR CIRCUIT, AND CHANGE IS ORDERED BEFORE THE INSTALLATION FOR SAID WORK HAS COMMENCED.
6.

GUARANTEE: THE CONTRACTOR SHALL SUBMIT A GUARANTEE IN WRITING TO THE OWNER THAT WARRANTS THE INSTALLATION IS FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER ALL WORK IS COMPLETED, ACCEPTED BY THE OWNER, AND THE OWNER OCCUPIES THE SPACE.
7.

COORDINATION: PROGRESS OF THE ELECTRICAL WORK SHALL BE COORDINATED WITH THE OWNERS REPRESENTATIVE & OTHER TRADES SO THAT ALL WORK WILL BE FULLY COMPLETED ON SCHEDULE. THE CONTRACTOR SHALL WORK IN HARMONY WITH OTHER TRADES. EXECUTION AND COORDINATION OF THE WORK SHALL BE PERFORMED IN AN INTELLIGENT MANNER, INCLUDING ALLOWANCE FOR FUTURE EXPANSION.
8.

SAFETY: THE CONTRACTOR SHALL PERFORM HIS WORK IN A CLEAN AND SAFE MANNER. HE SHALL, AT ALL TIMES, TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE SAFETY OF ALL PERSONNEL AND COMPLY WITH ALL OSHA REQUIREMENTS & RECOMMENDATIONS. THE CONTRACTOR SHALL CLEAN UP AFTER EACH WORKING DAY AND SECURE INCOMPLETE WORK IN A SAFE AND ORDERLY CONDITION. ALL DEBRIS SHALL BE REMOVED FROM THE SITE IN A TIMELY MANNER.
9.

EQUIPMENT TESTING: THE ELECTRICAL CONTRACTOR SHALL TEST ALL EQUIPMENT AND DEVICES INSTALLED TO THE SATISFACTION OF THE OWNER. RESPONSIBILITY AS TO THE OPERATION OF ALL EQUIPMENT SHALL APPLY ONLY TO THOSE ITEMS FURNISHED BY THE ELECTRICAL CONTRACTOR, BUT THE ELECTRICAL CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ACCURATE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR AND TEST INSTRUMENTS REQUIRED FOR TESTING THIS ELECTRICAL WORK, INCLUDING INFRARED IMAGES.
10.

UPON COMPLETION OF THE WORK, THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE THAT THE INSTALLATIONS ARE COMPLETE AND IN PERFECT OPERATING ORDER WITH WIRING FREE FROM GROUNDS OR SHORTS AND WITH EQUIPMENT AND RACEWAYS PROPERLY GROUNDED.
11.

O & M MANUAL: THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH TWO (2) O & M MANUALS THAT PROVIDES BASIC DATA RELATING TO THE DESIGN AND MAINTENANCE OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM. THE MANUAL SHALL INCLUDE A TABLE OF CONTENTS, TABS, ELECTRONIC AND HARD COPY OF RECORD DOCUMENTS, AND MANUFACTURERS OPERATIONAL AND MAINTENANCE INFORMATION FOR ELECTRICAL EQUIPMENT.
12.

SITE VISIT: THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO REVIEW AND EVALUATE THE EXISTING ELECTRICAL SYSTEMS PRIOR TO BIDDING. OBSERVATIONS AND DETERMINATIONS SHALL BE MADE AS THE CAPACITY OF THE EXISTING PROPOSED CONSTRUCTION. ANY COSTS OF MODIFICATIONS OR UPGRADES DETERMINED TO BE NECESSARY SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTORS BID. FAILURE TO ADEQUATELY INVESTIGATE THE SITE CONDITIONS PRIOR TO BIDDING SHALL NOT BE GROUNDS FOR AN EXTRA COST TO THE OWNER.
13.

QUALITY OF MATERIALS: ALL MATERIALS SHALL BE NEW AND SHALL BEAR THE U.L. LABEL OR BE U.L. LISTED, WHERE APPLICABLE, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE N.E.C. AND NEMA STANDARDS. THE MATERIALS DESCRIBED ARE INTENDED TO SET A HIGH STANDARD OF COMMERCIAL QUALITY.
14.

SPECIFIED ITEMS: WHERE MATERIALS OR EQUIPMENT ARE SPECIFIED BY MANUFACTURER OR BRAND NAME AND CATALOG NUMBER, SUCH DESIGNATION IS TO ESTABLISH STANDARDS OF QUALITY AND STYLE. THE CONTRACTOR ASSUMES THE RISK IF AN ITEM IS SUBSTITUTED FOR BID PURPOSES WITHOUT APPROVAL. MATERIALS SO SPECIFIED, OR APPROVED EQUALS, SHALL BE FURNISHED UNDER THE CONTRACT UNLESS CHANGED BY WRITTEN AGREEMENT. SUBSTITUTIONS MAY BE ACCEPTED ALONG WITH APPROPRIATE DEDUCTS TO THE BID PRICE.
15.

RECORD DRAWINGS: THE CONTRACTORS SHALL KEEP AT THE JOB SITE A CLEAN SET OF DRAWINGS FOR HIS USE AND RECORD THEREON ANY AND ALL CHANGES OR DEVIATIONS FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT UP-TO-DATE AND SHALL BE TURNED OVER TO THE ENGINEER AT THE COMPLETION OF THE JOB. THE ENGINEER HAS THE RIGHT TO REVIEW THE SET OF AS-BUILTS AT ANYTIME.
16.

OUTLET, SWITCH & JUNCTION BOXES: ALL OUTLET BOXES SHALL BE SQUARE AND PLUMB WITH THE SURFACE AND LABELED ON THE COVER PLATE WITH THE CIRCUIT NUMBER AND PANEL FROM WHICH THE CIRCUIT ORIGINATES. OUTLET BOXES SHALL BE METAL, NON-GANG ABLE KNOCKOUT TYPE. MINIMUM SIZE SHALL BE 4"x2". PROVIDED PLASTER RINGS OF DEPTH REQUIRED TO REACH FINISHED SURFACES.
17.

WIRE ROUTING: THE ELECTRICAL SYSTEM AND WIRE ROUTING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR. ALL ROUTING MUST BE CONFIRMED BY THE CONTRACTOR AFTER VERIFYING ALL DIMENSIONS AND CONDITIONS FOR POSSIBLE INTERFERENCES WITH MECHANICAL EQUIPMENT, PLUMBING, DUCTWORK, STRUCTURAL SUPPORTS, ETC. AND RECEIVING APPROVAL FROM THE PROJECT MANAGER. ALL MODIFICATIONS ARE UNDERSTOOD TO BE AT NO COST TO THE OWNER. THE CONTRACTOR MAY MODIFY ROUTING WITH THE ABOVE LIMITATIONS.
18.

FIXTURES: THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL REQUIRED SUPPORTS FOR FIXTURES AND EQUIPMENT. LIGHTING FIXTURES, FANS, ETC., SHALL BE SECURELY MOUNTED TO OUTLET BOXES AND BUILDING CONSTRUCTION. PROVIDE LAMPS FOR ALL FIXTURES.
19.

PANEL SCHEDULE: CONTRACTOR SHALL ADHERE TO THE PANEL SCHEDULE(S) AS SPECIFIED AND PROVIDE REVISED CIRCUIT DIRECTORY CARD(S). DIRECTORY CARD(S) SHALL BE NEATLY AND ACCURATELY TYPED, HAVE A TRANSPARENT COVER(S), AND CONTAIN ALL INFORMATION FROM THE DRAWING PANEL SCHEDULE.
20.

NEUTRALS: ALL CIRCUITS SHALL HAVE DEDICATED NEUTRALS AND GROUND WIRES. NEUTRALS SHALL NOT BE SHARED BY MORE THAN ONE PHASE CONDUCTOR OR CIRCUIT.
21.

GROUNDING: PROVIDE ALL WIRING, GROUNDING CONDUCTORS, AND GROUNDING DEVICES REQUIRED TO COMPLY WITH ARTICLE 250 OF THE N.E.C. EVERY CIRCUIT SHALL HAVE A GROUND WIRE.
22.

RECEPTACLES: INSTALL G.F.C.I. RECEPTACLES AS PER N.E.C. MOUNT RECEPTACLES 8" ABOVE COUNTERTOPS OR SINKS WHERE INDICATED. MOUNT SWITCH OUTLETS 50"A.F.F. TO CENTER OF DEVICE A.F.F. AND RECEPTACLES 18" A.F.F. UNLESS OTHERWISE NOTED. MATCH EXISTING AS APPROPRIATE.
23.

COVER-PLATES: COVER-PLATES FOR WIRING DEVICES SHALL BE SMOOTH, UNBREAKABLE NYLON, WHITE COLOR. COVER-PLATES FOR WEATHER PROOF DEVICES SHALL BE GASKETED LEXAN, SELF-CLOSING TYPE AND PERMIT THE RECEPTACLE TO BE ACTIVE WHILE MAINTAINING RATING (BUBBLE COVER). HUBBELL STAINLESS STEEL COVERS TO BE USED IN KITCHEN.
24.

EXPOSED CONDUIT: NO EXPOSED CONDUIT, FLEX, OR MC CABLE SHALL BE INSTALLED ON THE EXTERIOR SURFACES OF THE BUILDING, OR IN FINISHED AREAS ON THE INTERIOR OF THE BUILDING..
25.

CONDUIT SUPPORT: ELECTRICAL CONTRACTOR TO PROVIDE SUPPORT FROM STRUCTURE FOR CONDUITS, RUNNING THROUGH CEILING SPACE. ALL CONDUIT SHALL BE INSTALLED PARALLEL WITH BUILDING LINES.
26.

CONDUIT DROPS: THE ELECTRICAL CONTRACTOR SHALL PROVIDE 1" DIAMETER THIN WALL CONDUIT DROPS WITH PLASTER RING TO EACH DATA OR PHONE JACK. CONDUITS SHALL TERMINATE HORIZONTALLY WITH A BUSHING APPROXIMATELY 10" ABOVE THE CEILING OR TOP PLATE OF WALL.
27.

WIRE AND CABLE: INSTALL WIRE AND CABLE OF SIZE, TYPE, AND QUALITY INDICATED ON DRAWINGS OR AS REQUIRED BY THE N.E.C. ALLOW SUFFICIENT SLACKS AT BOXES TO PERMIT PROPER TERMINATION AT DEVICE WITHOUT SPLICES. MINIMUM SIZE #12.
28.

MC: METALLIC CLAD CABLE, MINIMUM SIZE #12 AWG SHALL BE USED FOR ALL INTERIOR WIRING NOT IN CONDUIT.
29.

WIRE IDENTIFICATION: ALL POWER WIRING SHALL BE PROPERLY COLOR CODED IN CONFORMANCE WITH THE N.E.C. APPROVED WIRE MARKERS SHALL BE USED AT EACH JUNCTION BOX AND TERMINATION TO IDENTIFY THE WIRE WITH ITS PANEL AND CIRCUIT NUMBERS.
30.

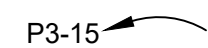

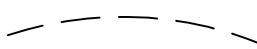
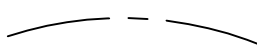


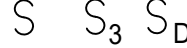





INSULATION TAPE SHALL BE VINYL PLASTIC ELECTRICAL TAPE, MINIMUM 7 MIL THICK, SCOTCH #33 OR APPROVED EQUAL.
31.

SPLICES: SPLICES OF #10 WIRE AND SMALLER SHALL BE MADE WITH APPROVED TYPE PRESSURE CONNECTORS AND INSULATING CAPS (WIRE NUTS). SPLICES IN #8 WIRE AND LARGER SHALL BE MADE WITH APPROVED TYPE SLEEVE CONNECTORS AND INSULATED TO SAME THICKNESS AS THE ORIGINAL INSULATION, WITH AN APPROVED TAPE HAVING HIGH DIELECTRIC STRENGTH. ELIMINATE ALL UNNECESSARY SPLICES. POLARIS TYPE FACTORY INSULATED MECHANICAL CONNECTION LUGS SHALL ALSO BE PERMITTED.
32.

CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER, MINIMUM SIZE #12
33.

PVC: SCHEDULE 40, MINIMUM SIZE 3/2" POLYVINYL CHLORIDE (RIGID NON-METALLIC TUBING) SHALL BE USED FOR ALL EXTERIOR AND BELOW GRADE WIRING. ALL UNDERGROUND CONDUIT SHALL BE BURIED 24" TO 30" BELOW GRADE AND SHALL BE MARKED 8" TO 10" ABOVE CONDUIT WITH 6" WIDE POLYETHYLENE RED MARKING TAPE WITH TRACEABLE FOIL BACKING WHICH READS "CAUTION - ELECTRIC LINE BELOW." (PANDUIT CAT. #HTDU6R-E) STANDARD RADIUS ELLS SHALL BE USED.

ELECTRICAL LEGEND


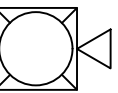
SYMBOL	DESCRIPTION
	HOMERUN TO PANELBOARD/LOAD CENTER - ONE BRANCH-CIRCUIT - TEXT INDICATES PANELBOARD / LOAD CENTER DESIGNATION AND BRANCH-CIRCUIT NUMBER. E.G. [PANELBOARD DESIGNATION] - [BRANCH-CIRCUIT NUMBER]. FEATURES: CONDUCTOR (EGC) USING APPROVED WIRING METHOD, U.O.N. OR SPECIFIED.
	BRANCH-CIRCUIT. BRANCH-CIRCUIT FEATURES: CONDUCTOR IN APPROVED WIRING METHOD
	BELOW SLAB OR GRADE BRANCH-CIRCUIT. FEATURES: CONDUCTOR IN APPROVED WIRING METHOD
	LOW VOLTAGE CABLING
	DUPLEX RECEPTACLE - M.H. 18" AFF
	DATA/COMM OUTLET. M.H. 18" AFF U.O.N.
	TOGGLE SWITCH - SINGLE POLE, 3-WAY, DIMMABLE (LOW VOLTAGE), OCCUPANCY SENSOR,. M.H. 42" AFF
	EMERGENCY LIGHTING UNIT - SELF-CONTAINED, REMOTE HEAD. M.H. 7'-6" AFF U.O.N. TEXT INDICATES FIXTURE TYPE
	EXIT UNIT - SELF-CONTAINED UNIT, - WITH HEADS. CEILING MOUNT U.O.N. TEXT INDICATES FIXTURE TYPE
	FIRE ALARM - PULL STATION. M.H. 48" A.F.F.
	CEILING MOUNTED OCCUPANCY SENSOR
	PHOTOCELL

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	BASIS OF DESIGN		BALLAST/DRIVER		SOURCE			INPUT VOLTAGE	WATTAGE	MOUNTING	COMMENTS
		MANUFACTURER	SERIES	QTY	TYPE	TYPE	LUMENS	TEMP (K)				
A	6" DOWNLIGHT	LITHONIA	LDN6	1	LED	LED	2,000	4,000	MVOLT	22.5	RECESSED	LDN6-40K-2,000LM-LO6-AR-LSS-TRW-MVOLT
B	LINEAR FLUSH WRAP AROUND	LITHONIA	FML4W	1	LED	LED	5,000	4,000	MVOLT	53.4	SURFACE	FML4W-48-5,000LM-840-ZT-MVOLT
C	ARCHITECTURAL WALL SCONCE	LITHONIA	WDGE1	1	LED	LED	1,200	3,000	MVOLT	10	SURFACE	WDGE1-LED-4WP-1-1,200LM-80CRI-VF-SRM
D	OUTDOOR DECORATIVE WALL SCONCE	PROGRESS LIGHTING	P5863-31	1	LED	LED	-	-	MVOLT	-	SURFACE	P5863-31-MVOLT-22 WATT LED BULB
E	6" DOWNLIGHT	LITHONIA	LDN6	1	LED	LED	750	4,000	MVOLT	8.9	RECESSED	LDN6-40K-750LM-LO6-AR-LSS-TRW-MVOLT
EH	EMERGENCY HEAD	LITHONIA	ERE	1	LED	LED	-	-	120V	-	SURFACE	ERE-W-S-RD-WP
EX	EMERGENCY EXIT	LITHONIA	LQM LED	1	LED	LED	-	-	MVOLT	-	SURFACE	LQM-S-W-3-R-MVOLT'
EM	EMERGENCY LIGHT	LITHONIA	ELM6L	N/A	LED	LED	1100	--	MVOLT	-	SURFACE	ELM6L-UVOLT
EXM	COMBINATION EXIT/EMEGENCY	LITHONIA	LHQM LED	1	LED	LED	-	-	MVOLT	-	SURFACE	LHQM-LED-R-M6

NOTES:  
1. TYPE "D" LIGHT FIXTURE, INCLUDE A 22 WATT LED BULB.

FIRE ALARM LEGEND

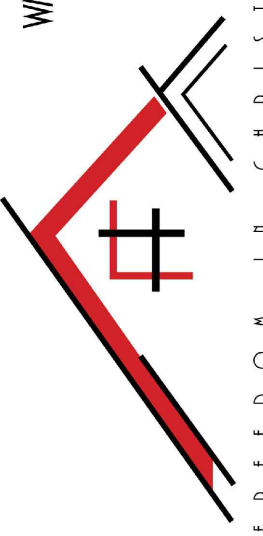
SYMBOL	DESCRIPTION
	FIRE ALARM MANUAL PULL STATION MOUNT CENTER @ 46" A.F.F.
	FIRE ALARM HORN-STROBE MOUNT CENTER @ 84" A.F.F.



Mechanical | Electrical | Systems Engineering  
PO Box 405, Smyrna, DE 19077 302-459-9200

REVISIONS	BY

WIMBLYER JR. ARCHITECT, INC.  
PO Box 104, Kenton, DE 19955  
Phone: 302-653-3550  
Cell: 302-359-3313  
bill@wimblyerarchitect.com  
www.wimblyerarchitect.com



ADDITIONS AND RENOVATIONS TO  
MODERN MATURITY CENTER:  
LONGWOOD ENTRANCE  
1121 FORREST AVENUE  
DOVER, DELAWARE 19904

ELECTRICAL –  
SCHEDULES &  
NOTES

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CHECKED EAU
DATE 14 JUNE 2024
SCALE NOTED
SHEET NO. C1366-0919
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