

ROCKFORD PUBLIC SCHOOLS # 205

4145 Samuelson Rd, Rockford, IL 61109

IFB# 23-16 PROJECT NUMBER: 2403

ESSER HVAC Improvements – Jefferson High School

ARCHITECTURAL Sheet List	
Number	Name
C000	PROJECT COVERSHEET
G000	GENERAL INFORMATION, DOOR SCHEDULE, DOOR TYPE, FRAME TYPE, HEAD, SILL AND JAM DETAIL.
G001	FIRST FLOOR CODE PLAN
G002	ROOM FINISH SCHEDULE FIRST FLOOR
D101E	FIRST FLOOR DEMOLITION PLAN AREA E
A101E	FIRST FLOOR PLAN AREA E
A201E	FIRST REFLECTED CEILING FLOOR PLAN AREA E
A202E	ROOF PLAN AREA E
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MECHANICAL / PLUMBING / ELECTRICAL Sheet List	
Number	Name
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M102	ROOF DEMOLITION - MECHANICAL
M201	LEVEL 01 - MECHANICAL
M202	ROOF - MECHANICAL
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M500	MECHANICAL CONTROL DIAGRAMS
M600	MECHANICAL SCHEDULES
E000	ELECTRICAL COVERSHEET
E101	LEVEL 01 DEMOLITION - ELECTRICAL
E102	ROOF DEMOLITION - ELECTRICAL
E201	LEVEL 01 - ELECTRICAL
E202	ROOF - ELECTRICAL
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VICINITY MAP	APPLICABLE CODES
	2015 International Energy Conservation Code (IECC) 2015 International Existing Building Code (IEBC) 2015 International Fire Code (IFC), excluding Chapter 4 2015 International Fuel Gas Code (IFGC) 2015 International Mechanical Code (IMC) 2014 Illinois Plumbing Code 2014 National Electrical Code
SCOPE OF WORK	PROJECT DIRECTORY
Heating, ventilation and air conditioning revisions to school as well as architectural, structural, and electrical revisions to support the HVAC work.	<p>PROJECT MANAGER: BRANDON PIERSON IMEG CORP 623 26TH AVENUE QUAD CITIES, IL 61201 PHONE: 13097933260 CONTACT: BRANDON.W.PIERSON@IMEGCORP.COM</p> <p>MECHANICAL ENGINEER: ZACH MANARY IMEG CORP 623 26TH AVENUE QUAD CITIES, IL 61201 PHONE: 13094306553 CONTACT: ZACHARY.G.MANARY@IMEGCORP.COM</p> <p>ELECTRICAL ENGINEER: GAURAV SHARMA IMEG CORP 623 26TH AVENUE QUAD CITIES, IL 61201 PHONE: 13097053579 CONTACT: GAURAV.D.SHARMA@IMEGCORP.COM</p> <p>STRUCTURAL ENGINEER: LISA POGUE IMEG CORP 623 26TH AVENUE QUAD CITIES, IL 61201 PHONE: 13094306577 CONTACT: LISA.M.POGUE@IMEGCORP.COM</p> <p>ARCHITECT: MARCO SAN ROMAN SAAVEDRA GROUP ARCHITECTS 504 NORTH CHURCH STREET ROCKFORD, IL 61103 PHONE: 8159636392 CONTACT: MARCO@SGADESIGN.COM</p>

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LICENSE EXP: mm/dd/yyyy

LICENSE EXP: mm/dd/yyyy

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SCHOOLS # 205



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REVISIONS			
No.	Date	Revision / Issue	
SHEET INFORMATION			
Issue	Construction Documents		
Date	November 03, 2022		
Job Number	21002885.11		

PROJECT COVERSHEET

Scale: _____

SHEET NUMBER

C000

ABBREVIATIONS

AC	AIR CONDITIONING	EA	EACH	L.P.	LOW POINT	Q.T.	QUARRY TILE
AC/FL	ACCESS FLOOR	EL	ELEVATION	LAM.	LAMINATE	QTY.	QUANTITY
ACP	ACOUSTICAL CEILING PANEL	ELEC.	ELECTRICAL	LAV.	LAVATORY	R/RAD.	RADIUS
ADJ.	ADJUSTABLE	ELEV.	ELEVATOR	LH	LEFT HAND	R.B.	RESILIENT BASE
ADJ.	ADJUSTABLE	EMER.	EMERGENCY	LT.	LIGHT	R.O.	ROUGH OPENING
AFF	ABOVE FINISHED FLOOR	ENCL.	ENCLOSED	LVR.	LOUVER	R.T.	RUBBER TILE
AL/ALUM.	ALUMINUM	ENGR.	ENGINEER	M.O.	MASONRY OPENING	RD.	ROOF DRAIN
ALT.	ALTERNATE	ENG.	ENGINEER	MACH.	MACHINE	REF.	REFERENCE
ANOD.	ANODIZED	ESC.	EQUIPMENT	MAX.	MAXIMUM	REINF.	REINFORCED
ANT.	ANTENNA	ESC.	ESCALATOR	MDF	MEDIUM DENSITY FIBERBOARD	REMO.	REMOVED
APPD.	APPROVED	EX	ELECTRIC WATER COOLER	MECH.	MECHANICAL	REV.	REVISION OR REVISED
ARCH.	ARCHITECT	EXIST.	EXISTING	MEZZ.	MEZZANINE	RF.	ROOF
ARCHL.	ARCHITECTURAL	EXP.	EXPANSION OR EXPOSED	MFR.	MANUFACTURER	RFG.	ROOFING
B.M.	BENCHMARK	EXT.	EXTERIOR	MN.	MINIMUM	RH	RIGHT HAND
BETW.	BETWEEN	FD	FLOOR DRAIN	MISC.	MISCELLANEOUS	RM.	ROOM
BLDG.	BUILDING	FVDC	FIRE DEPARTMENT VALVE CABINET	MTD.	MOUNTED	S&BR	SEALANT AND BACKER
BLK.	BLOCK	FE	FIRE EXTINGUISHER	MTG.	MOUNTING	ROD	ROD
BLKG.	BLOCKING	FEC	FIRE EXTINGUISHER CABINET	MTL.	METAL	SCWD	SOLID CORE WOOD
BM.	BEAM	FECV	FIRE EXTINGUISHER AND VALVE CABINET	MUL.	MULLION	S.S.	STAINLESS STEEL
BOT.	BOTTOM	EXT.	EXTERIOR	MWK.	MILLWORK	SHT.	SHEET
BRG.	BEARING	FHC	FIRE HOSE CABINET	NIC	NOT IN CONTRACT	SIM.	SIMILAR
C.G.	CORNER GUARD	FIN.	FINISHED	NO.	NUMBER	ST.	STAIN
C.T.	CERAMIC TILE	FLG.	FLASHING	NOM.	NOMINAL	STD.	STANDARD
CAB.	CABINET	FLR.	FLOOR	NRC	NOISE REDUCTION COEFFICIENT	STL.	STEEL
CFCI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	FRT	FIRE RETARDANT TREATED FUTURE	NTS	NOT TO SCALE	SUSP.	SUSPENDED
CFMF	COLD FORMED METAL	FVC	FIRE VALVE CABINET	O.C.	ON CENTER	T/	TOP OF
CL	CL	FRAMING	GA.	OA	OVERALL	T&B	TOP AND BOTTOM
CLG.	CENTER LINE	GA.	GALVANIZED	OH	OVERHEAD	T&G	TONGUE AND GROOVE
CLO.	CLOSET	GB	GRAB BAR	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED	TEL.	TELEPHONE
CLO.	CLOSET	GFRG	GLASS FIBER REINFORCED CONCRETE	OFOI	OWNER FURNISHED/ OWNER INSTALLED	TEMP.	TEMPORARY
CLR.	CLEAR	GFRP	GLASS FIBER REINFORCED PLASTER	OFF.	OFFICE	THK.	THICK
CMU	CONCRETE MASONRY UNIT	GL	GLASS, GLAZING	OFF.	OFFICE	TYP.	TYPICAL
COL.	COLUMN	GYP.BD./G	GYP.SUM WALL BOARD	OPG.	OPENING	UL.	UNDERWRITERS
CONN.	CONNECTION	B	HOLLOW CORE	OPP.	OPPOSITE	U.N.O.	UNLESS NOTED
CONST.	CONSTRUCTION	H.C.	HOLLOW CORE	ORN.	ORNAMENTAL	P.C.	OTHERWISE
CORR.	CORRIDOR	H.M.	HOLLOW METAL	P.LAM.	P.LAM.	V.B.	VINYL BASE
CPT./CP	CARPET	H.P.	HIGH POINT	PERF.	PERFORATED	V.C.T.	VINYL COMPOSITE TILE
DBL.	DOUBLE	HD	HEAD	PH.	PHASE	VAP.BAR	VAPOR BARRIER
DET.	DETAIL	HDWR.	HARDWARE	PL.	PLATE	VERT.	VERTICAL
DIA.	DIAMETER	HDWD.	HARDWOOD	PLAS.	PLASTIC	VEST.	VESTIBULE
DN	DOWN	HORIZ.	HORIZONTAL	PLBG.	PLUMBING	VIF.	VERIFY IN FIELD
DR.	DOOR	HT.	HEIGHT	PLYWD.	PLYWOOD	VWC.	VINYL WALL COVERING
DS	DOWNSPOUT	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	PNL.	PANEL	W/	WITH
DWG.	DRAWING	INCL.	INCLUDE (ED) (ING)	PKG.	PARKING	W/O	WITHOUT
		INFO.	INFORMATION	PPT.	PRESSURE TREATED	WD.	WOOD
		INSUL.	INSULATION	PR.	PAIR	WP	WATERPROOFING
		INT.	INTERIOR	PROT.	PROTECTION		
		J.C.	JANITOR'S CLOSET	PT.	PAINT		
		JB.	JAMB	PTD.	PAINTED		
		JT.	JOINT	PTN.	PARTITION		
				PVMT.	PAVEMENT		

SYMBOL LEGEND

ITEM	SYMBOL		
DRAWING TITLE	0	TITLE	
ROOM NAME AND NUMBER	101	ROOM NAME	
	000 SF	ROOM SF	
DOOR NUMBER	101		
WALL TYPE	00		
WINDOW NUMBER / CURTAIN PANEL	00 (OR) 00		
CEILING ELEVATION	00'-00"		
KEYNOTE (Sheet Note)	0		
SPOT ELEVATION	0'-0"		
EQUIPMENT NUMBER	00		
AREA NAME	000 SF	AREA SF	
NORTH ARROW	N		
REVISION			
BUILDING SECTION	1 A101		

WALL SECTION	1 A101
DETAIL	1 A101
DETAIL	1 A101
ELEVATION	Name Elevation
EXISTING COLUMN LINE	00
COLUMN LINE	00
FLOOR FINISH	T-1
BASE FINISH	B-1
WALL FINISH	P-1
WOOD STAIN	ST-1
WALL PAINT FINISH	PT-1

ACCESSIBILITY COMPLIANCE STATMENT

STATEMENT OF COMPLIANCE

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT [410 ILCS 25] AND THE ILLINOIS ACCESSIBILITY CODE [71 III. ADM. CODE 400].

SIGNED: Daniel Baumbach ARCHITECT/ENGINEER
ILLINOIS REGISTRATION NO. 001-015740
DATE: 12/23/2021

ENERGY CODE COMPLIANCE STATEMENT

I hereby certify that I am a Licensed Architect in the State of Illinois and I also certify that to the best of my knowledge and belief that the plans for Jefferson High School fully comply with the following sections of the 2018 International Energy Conservation Code and State of Illinois amendments.

ICC - Commercial Building
Chapter 1 [C1] - Scope and Administration
Chapter 2 [C2] - Definitions
Chapter 3 [C3] - General Requirements
Chapter 4 [C4] - Commercial Energy Efficiency
Chapter 5 [C5] - Existing Buildings
Chapter 6 [C6] - Referenced Standards
State of Illinois Amendments to C101.1, C101.1.2, C101.1.3, C101.5, C102.1.1, C109.1, C109.2, C402.2, C402.3, C402.3.1 and C503.1

In accordance with Illinois amendments to C101.5, US DOE COMcheck's Energy Code Compliance Certificate have been submitted to the AHJ (Authority Having Jurisdiction) along with all associated supporting documentation. In accordance with IECC Section 103.2, insulation materials and R-values, fenestration (windows and doors), and weighted U-factors and SHGC calculations, mechanical system design criteria, mechanical system and service hot water system equipment types, size and efficiency, air conditioner, equipment and system controls, fan motor horsepower and controls, duct sealing, duct and pipe insulation and location, lighting and fixture schedules with controls and control system, and lighting details and system commissioning requirements are detailed, described and specified in the construction documents (Drawings and Project Manual) and the COMcheck Compliance Certificate including attached supporting documentation and calculations.

LINETYPE LEGEND

PROPERTY LINE	— • • • • —
DEMOLITION	- - - - -
EXISTING	_____
NEW	_____
FIRE BARRIER 1 HOUR	1 — 1 — 1 — 1 — 1
FIRE BARRIER 2 HOUR	2 — 2 — 2 — 2 — 2

ARCHITECTURAL SEAL

LICENSE: 001-015740
DATE: 12/23/2021
EXPIRATION DATE: 11.30.2024

THIS SEAL APPLIES TO ALL G.D. AND A SHEETS.

GENERAL DEMOLITION NOTES

- PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE EXPOSED AND NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ELECTRICAL ITEMS, ELECTRICAL DEVICES, MECHANICAL ITEMS, PLUMBING ITEMS, ETC.
- DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED.
- EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREAS, AND INTERRUPTION OF FREE PASSAGE TO AND FROM SUCH AREAS.
- CONTRACTOR TO PERFORM REQUIRED DEMOLITION AND TO LAWFULLY AND PROPERLY DISPOSE OF DEMOLISHED MATERIAL, OTHER OBSTACLES, DEBRIS, AND MATERIALS INCIDENTAL TO THE WORK FROM THE SITE.
- CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO ENSURE EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED DURING DEMOLITION. IF ANY ITEM INDICATED TO BE REMOVED, STORED AND/OR REINSTALLED IS DAMAGED DURING THE DEMOLITIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE THE ITEM TO ITS PRE-DEMOLITION CONDITION. IF ANY ITEM SCHEDULED FOR DEMOLITION WAS DAMAGED PRIOR TO DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PERFORMING THE DEMOLITION WORK.
- WHETHER OR NOT SPECIFICALLY INDICATED, THE CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL, ELECTRICAL AND PLUMBING DEVICES AS REQUIRED INCLUDING BUT NOT LIMITED TO REROUTING CONDUITS, WIRING, PIPING, ETC. TO ACCOMMODATE THE WORK. PROVIDE NEW DEVICES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRING, PIPING, ETC AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS.

GENERAL NOTES

- EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF WORK INCLUDED UNDER THE CONTRACT.
- FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
- MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING AND SITE ACCESS THROUGH SUBSTANTIAL COMPLETION.
- ITEMS NOTED AS EXISTING ARE TO REMAIN, UNLESS OTHERWISE NOTED.
- VERIFY WITH OWNER ITEMS TO BE SALVAGED AND RETURNED TO OWNER, INCLUDING BUT NOT NECESSARILY LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, ETC. ITEMS TO BE SALVAGED SHALL BE CAREFULLY REMOVED AS TO ALLOW FOR OWNER'S REUSE.
- EXISTING LOOSE ITEMS INCLUDING FURNITURE, EQUIPMENT, AND SUPPLIES SHALL BE REMOVED BY OWNER AS NECESSARY. COORDINATE MOVING SCHEDULE WITH OWNER FOR LOOSE ITEMS TO BE REMOVED BY OWNER PRIOR TO START OF THE WORK.
- REMOVE AND REINSTALL EXISTING CEILINGS, MECHANICAL, AND ELECTRICAL EQUIPMENT, DEVICES, LIGHTING, EXIT SIGNS, FIRE ALARM DEVICES, CONDUIT, WIRING, ETC. AS REQUIRED TO ACCOMPLISH REMOVAL AND INSTALLATION OF NEW WORK, UNLESS OTHERWISE NOTED. VERIFY THE OPERATING CONDITION OF EQUIPMENT PRIOR TO THE START OF THE WORK AND REPORT CONDITIONS TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- AT LOCATIONS WHERE NEW ELECTRICAL CONDUITS, MECHANICAL AND PLUMBING PIPING, ETC. PENETRATE THROUGH NEW OR EXISTING WALLS, INSTALL UL RATED THROUGH-PENETRATION FIRE STOPPING SYSTEM AROUND CONDUITS AND PIPING, ETC. TO PROVIDE A COMPLETE FIRE RATED SEPARATION AS REQUIRED.
- WHERE NEW PENETRATIONS ARE MADE IN EXISTING WALLS AND FLOORS AND WHERE DEMOLITION HAS OCCURRED, CONTRACTOR SHALL RECONSTRUCT WALL OR FLOOR TIGHT AROUND PENETRATION WITH MATERIALS TO MATCH EXISTING WALL OR FLOOR CONSTRUCTION.
- PATCH AND REPAIR EXISTING CONSTRUCTION, EXISTING SURFACES, AND NEWLY EXPOSED CONSTRUCTION AFFECTED BY THE WORK WITH MATERIALS AND FINISHES CONSISTENT WITH EXISTING TO MATCH ADJACENT SURFACES AND FINISHES, WHETHER SHOWN OR NOT ON THE DRAWINGS, TYP. UNLESS NOTED OTHERWISE, PROVIDE NECESSARY AND REQUIRED PREPARATORY WORK TO EXISTING CONSTRUCTION AFFECTED BY THE WORK TO RECEIVE NEW AND PROPER FINISHES.
- RESTORE ITEMS/DAMAGED AREAS AT STAGING AREAS, ETC. TO ORIGINAL FULLY FUNCTIONAL CONDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS WHETHER SHOWN OR NOT, INCLUDING ELECTRICAL, WIRING, CONDUITS, MECHANICAL, PLUMBING, FLOOR DRAIN COVERS, ETC.
- PATCH, REPAIR, AND PAINT EXISTING WALLS AND CEILINGS AS REQUIRED IN AREAS WHERE MECHANICAL SYSTEMS AND SUPPORTS, PLUMBING SYSTEMS AND SUPPORTS, AND EQUIPMENT AND SUPPORTS WERE REMOVED. PATCH, REPAIR, AND PAINT WALLS AND CEILINGS TO MATCH ADJACENT SURFACE.
- PROPERLY PROTECT EXISTING BUILDING, CONCRETE WALKS, CURBS, PAVING, GRASS, LANDSCAPING, ETC. FROM DAMAGE DURING CONSTRUCTION. REPLACE ANY DISTURBED AND DAMAGED AREAS WITH NEW LIKE MATERIALS, SOIL, LANDSCAPING, ETC. MATCHING EXISTING.
- EXISTING ENTRANCES AND DRIVES MUST REMAIN OPEN AND PASSABLE.
- MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING THROUGH SUBSTANTIAL COMPLETION.
- COORDINATE STAGING AREA LOCATIONS WITH OWNER.
- CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOFING AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WATERTIGHT CONDITION THAT MATCHES ADJACENT ROOF SYSTEM. MAINTAIN EXISTING WARRANTIES.
- G.C. TO ENSURE THAT ANY FIRE RATED WALL SHALL MAINTAIN ITS FIRE RATING.



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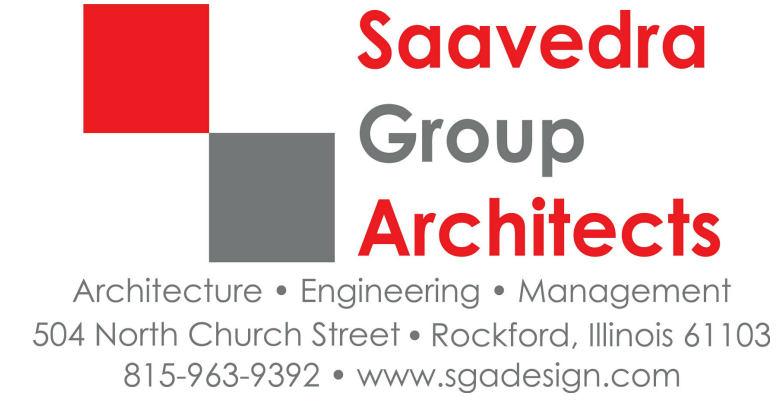
ESSER HVAC Improvements- Jefferson High School

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ROCKFORD PUBLIC SCHOOLS # 205

PROFESSIONAL SEAL

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KEY PLAN

AGENCY APPROVAL

REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No. Date Revision / Issue

SHEET INFORMATION

CONSTRUCTION DOCUMENTS

Issue NOVEMBER 3, 2022

Date 22006.10

Drawn MI

Checked MS

Approved DS/MS

SHEET TITLE

GENERAL INFORMATION, DOOR SCHEDULE, DOOR TYPE, FRAME TYPE, HEAD, SILL AND JAM DETAIL.

SCALE

Scale: As Indicated

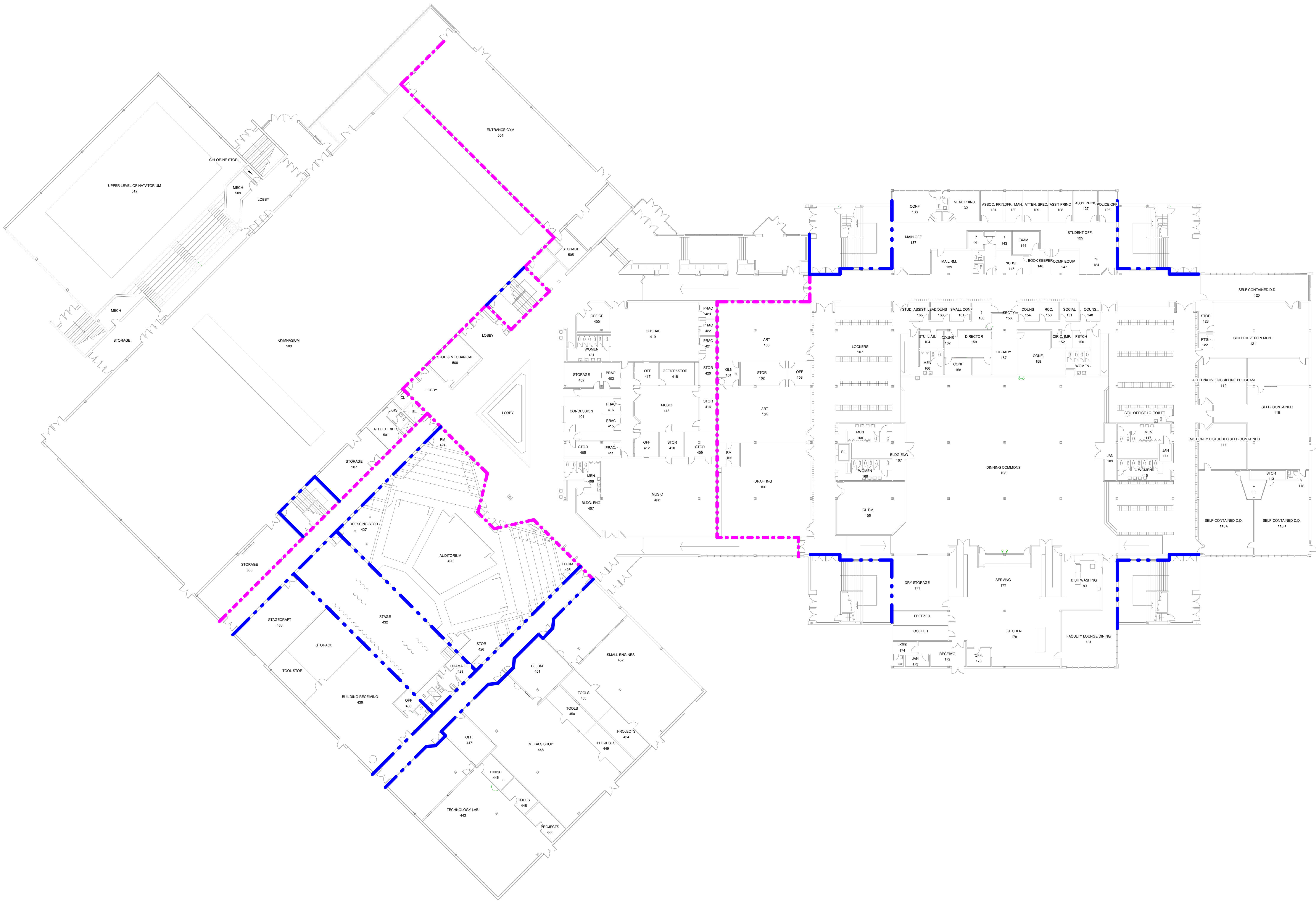
SHEET NUMBER



2

FIRST FLOOR CODE PLAN

1" = 20'-0"



WALL RATING KEY

- 1 HOUR FIRE WALL RATING
- 2 HOURS FIRE WALL RATING
- SMOKE COMPARTMENT



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SCHOOLS # 205

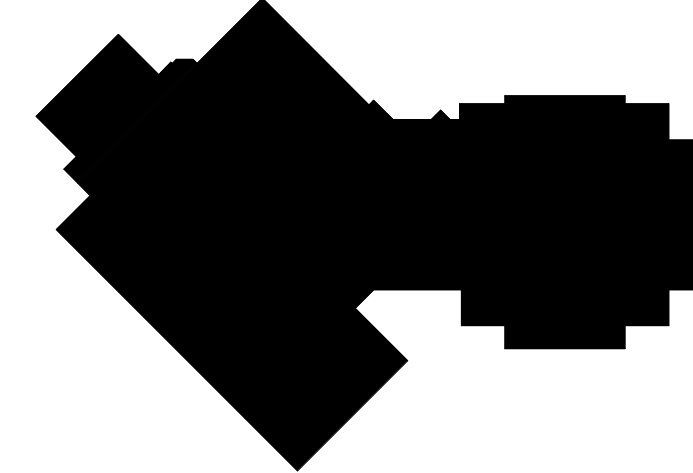
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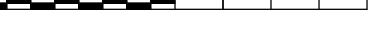
KEY PLAN



AGENCY APPROVAL

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REFERENCE SCALE IN INCHES



REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	CONSTRUCTION DOCUMENTS
Date	NOVEMBER 3, 2022
Job Number	22006.10
Drawn	MI
Checked	MS
Approved	DS/MS

SHEET TITLE

FIRST FLOOR
CODE PLAN

SCALE

Scale: As Indicated

SHEET NUMBER

G001

JEFFERSON HIGH SCHOOL																																							
ROOM FINISH SCHEDULE																																							
		FLOOR					BASE			CEILING							WALLS				CEILING HT.										TRM			KEYNOTE					
		VCT	CARPET	MATCH EXISTING	EXISTING		RUBBER	MATCH EXISTING	EXISTING		2 X2 SUSP. ACT.	GYPSUM BOARD	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING		CMU	GYPSUM BOARD	PAINT	EXISTING		9'-2" AFF	9'-0" AFF	8'-3" AFF	8'-0" AFF	7'-10 1/2 " AFF	7'-10" AFF	7'-7 " AFF	7'-6 " AFF	7'-4 " AFF	EXPOSED	EXISTING		METAL	PAINT	EXISTING		
FIRST FLOOR ROOM FINISH SCHEDULE																																							
443	TECHNOLOGY LAB				●				●							●				●	●													●				●	3
443A	CL RM.				●				●							●				●	●													●				●	2, 3
447	OFFICE				●				●							●				●	●													●				●	
448	METAL SHOPS				●				●							●				●	●													●				●	3
450	TOOLS				●				●							●				●	●													●				●	3
451	CL RM.				●				●							●				●	●													●				●	2, 3
452A	CL RM.				●				●							●				●	●													●				●	2, 3
452	SMALL ENGINES				●				●							●				●	●													●				●	3
453	TOOLS				●				●							●				●	●													●				●	3
454	PROJECTS				●				●							●				●	●													●				●	3

ROOM FINISH SCHEDULE GENERAL NOTES:

- A. DO NOT PAINT SUSPENDED ACOUSTICAL CEILING SYSTEM.
- B. PAINT ALL NEW EXPOSED DUCTWORK, CONDUIT, JUNCTION BOXES, ETC.INCLUDING ALL. HANGERS,TRIM AND ASSOCIATED COMPONENTS WHETHER INDICATED OR NOT IN THE ROOM FINISH SCHEDULE.
- C. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
- D. PATCH TO MATCH EXISTING WALLS WHETHER INDICATED OR NOT TO ACCOMMODATE THE NEW WORK.
- E. PROVIDE GYPSUM BOARD CONTROL JOINTS ON HORIZONTAL AND VERTICAL SURFACES AT LOCATIONSINDICATED ON THE DRAWINGS.

ROOM FINISH SCHEDULE KEYNOTES:

1. PROVIDE CERAMIC TILE FLOORING TO MATCH EXISTING ADJACENT FLOORING AS REQUIRED TO COMPLETE THE WORK.
2. PAINT NEW MASONRY WALL.
3. PAINT MASONRY INFILL WALL TO MATCH EXISTING ADJACENT WALL.
4. PAINT FIRST COURSE TO MATCH EXISTING FIRST COURSE PAINTED CMU.

GENERAL PAINTING NOTES:

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
2. FIELD VERIFY ITEMS, CONDITIONS, QUANTITIES, ETC.
3. PROVIDE PREPARATION AS NECESSARY PRIOR TO PAINTING WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES AND OTHER AREAS OF DAMAGE, SECURING LOOSE TRIM,CONDUITS AND ANY OTHER WALL OR CEILING HARDWARE ITEMS REQUIRING ATTENTION.
4. PROPERLY PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING INCLUDING BUT NOT LIMITED.
5. PRIOR TO PAINTING WORK, PROVIDE TRI-SODIUM PHOSPHATE (TSP) CLEANING OF EXISTING SURFACES TO RECEIVE PAINT USING APPROVED METHODS OF CLEANING PER CHEMICAL MANUFACTURER'S REQUIREMENTS. PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING.
6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS.PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
8. PAINT NEW ITEMS AS INDICATED.
9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS, TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN ROOM FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.



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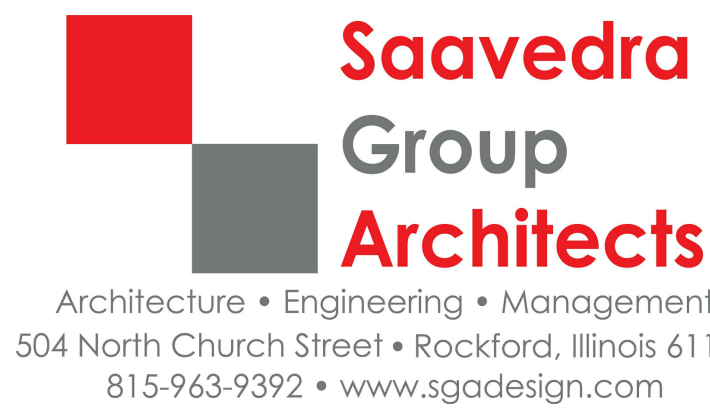
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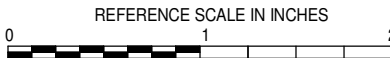


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REVISIONS

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Issue NOVEMBER 3, 2022

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Approved DS/MS

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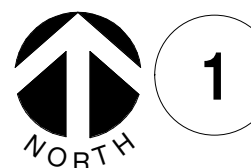
ROOM FINISH
SCHEDULE
FIRST FLOOR

SCALE

Scale: As Indicated

SHEET NUMBER

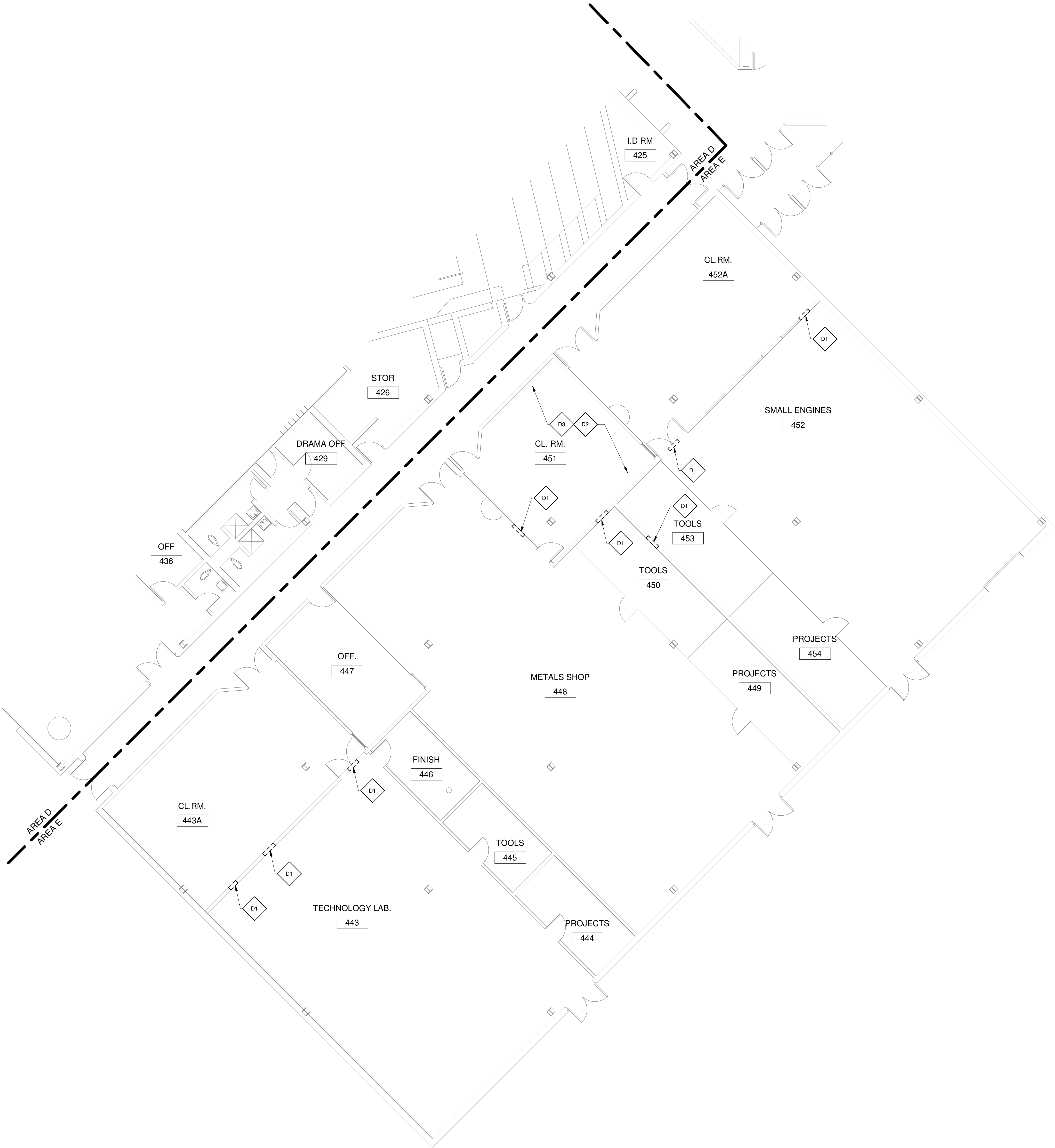
G002



1

FIRST FLOOR DEMOLITION PLAN AREA E

1/8" = 1'-0"



GENERAL DEMOLITION NOTES	
1.	PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE EXPOSED AND NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ELECTRICAL ITEMS, ELECTRICAL DEVICES, MECHANICAL ITEMS, PLUMBING ITEMS, ETC.
2.	DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED.
3.	EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREAS, AND INTERRUPTION OF FREE PASSAGE TO AND FROM SUCH AREAS.
4.	CONTRACTOR TO PERFORM REQUIRED DEMOLITION AND TO LAWFULLY AND PROPERLY DISPOSE OF DEMOLISHED MATERIAL, OTHER OBSTACLES, DEBRIS, AND MATERIALS INCIDENTAL TO THE WORK FROM THE SITE.
5.	CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO ENSURE EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED DURING DEMOLITION. IF ANY ITEM INDICATED TO BE REMOVED, STORED AND/OR REINSTALLED IS DAMAGED DURING THE DEMOLITIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE THE ITEM TO ITS PRE-DEMOLITION CONDITION. IF ANY ITEM SCHEDULED FOR DEMOLITION WAS DAMAGED PRIOR TO DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PERFORMING THE DEMOLITION WORK.
6.	WHETHER OR NOT SPECIFICALLY INDICATED, THE CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL, ELECTRICAL AND PLUMBING DEVICES AS REQUIRED INCLUDING BUT NOT LIMITED TO REROUTING CONDUITS, WIRING, PIPING, ETC. TO ACCOMMODATE THE WORK. PROVIDE NEW DEVICES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRING, PIPING, ETC AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS.

DEMOLITION KEY NOTES	
D1	CORE/REMOVE MASONRY AS NECESSARY TO ROUTE NEW DUCTWORK OR PIPING. REMOVE FULL CMU OR BRICK. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
D2	CAREFULLY REMOVE EXISTING ACT CEILING SYSTEM AND SALVAGE FOR REINSTALLATION.
D3	REMOVE DUCTWORK. SEE MECHANICAL DRAWINGS.



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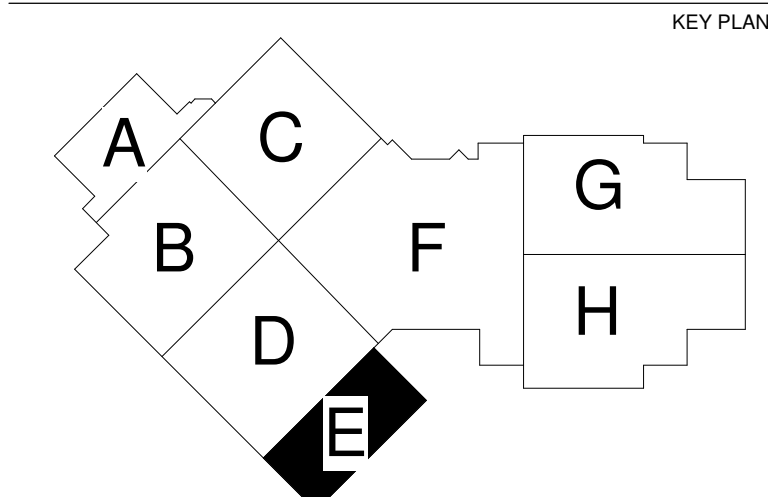
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REVISIONS			
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SHEET INFORMATION	
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Approved	DS/MS

SHEET TITLE
FIRST FLOOR
DEMOLITION
PLAN AREA E

SCALE
As Indicated

SHEET NUMBER

GENERAL COORDINATION NOTE
GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK

DEMO LEGEND
----- DEMOLITION WORK

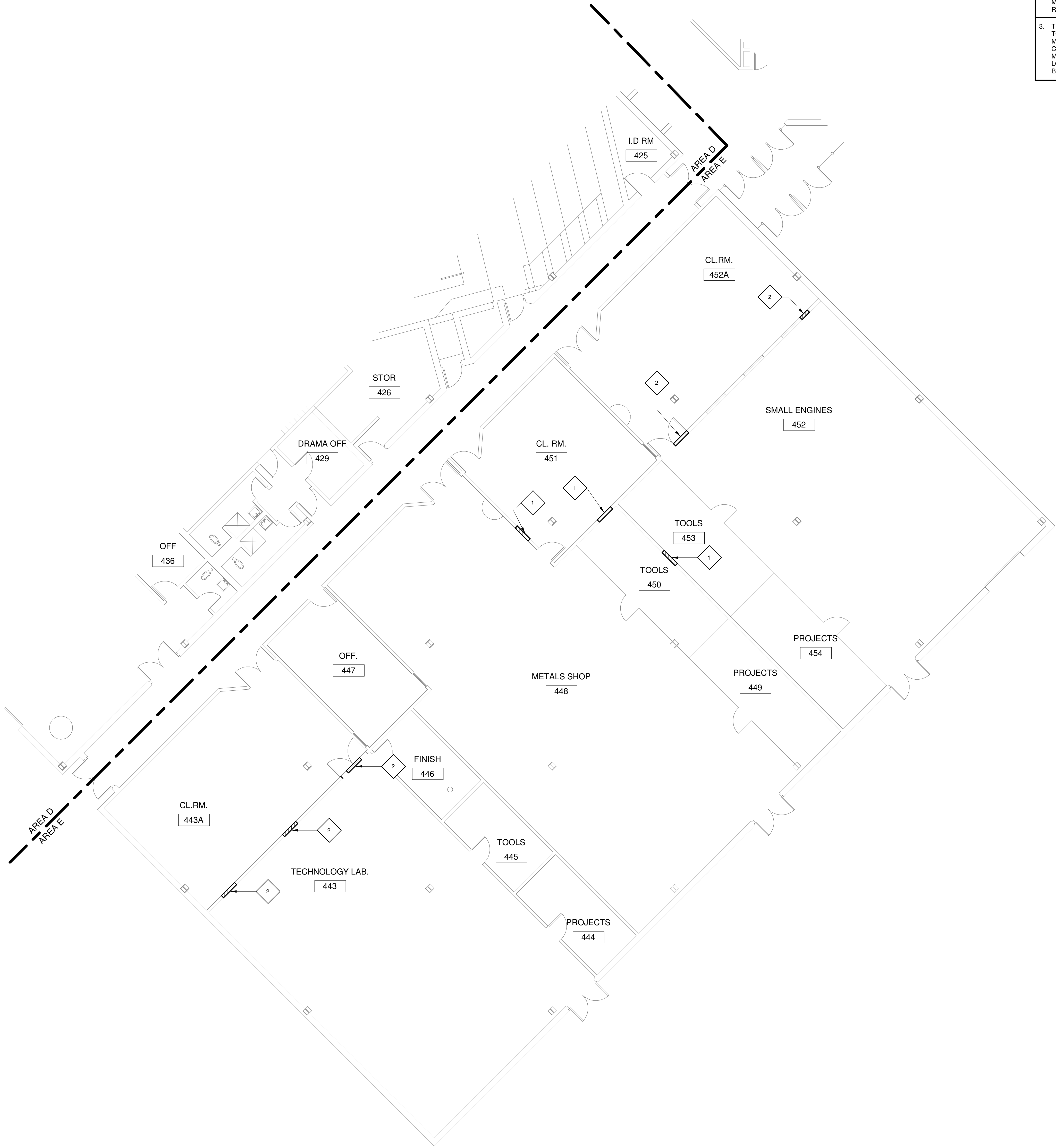
D101E



1

FIRST FLOOR PLAN AREA E

1/8" = 1'-0"



GENERAL NOTES

1. FOR THE REMOVAL OF MECHANICAL DUCTWORK AND PIPING, REFER TO MECHANICAL DRAWINGS.
2. GENERAL CONTRACTOR TO REMOVE EXISTING EXIT SIGNS, SURFACE MOUNTED CLOCKS, SECURITY CAMERAS, WALL MOUNTED EMERGENCY LIGHT PACK, WALL MOUNTED SPEAKERS, WALL MOUNTED ALARM BELL AND SALVAGE FOR REINSTALLATION AS REQUIRED TO ACCOMMODATE THE NEW WORK.
3. THE EXTENT OF WALL AND FLOOR DEMOLITION IS SHOWN WHERE ANTICIPATED TO APPROXIMATE THE SCOPE OF WORK. THE INTENT IS TO ACCOMMODATE ALL MECHANICAL PIPING, DUCTWORK AND EQUIPMENT INSTALLATION. FINAL COORDINATION IS REQUIRED BETWEEN GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO CONFIRM ALL PENETRATION SIZES AND LOCATIONS. INCLUDE ALL WORK AS SHOWN ON DRAWINGS AND AS REQUIRED BY THE MECHANICAL CONTRACTOR FOR THEIR INSTALLATION.

NEW WORK KEYNOTES

1. WHERE NEW DUCTWORK OR PIPING HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO NEW DUCTWORK / PIPE WITH FULL MASONRY - MATCH THICKNESS AND COURSING PROVIDE FIRE CAULK AROUND PENETRATION. WHERE INFILL IS EXPOSED AND VISIBLE, PAINT TO MATCH EXISTING.
2. WHERE NEW DUCTWORK OR PIPING HAS BEEN ROUTED - INFILL HOLE TIGHT TO NEW DUCTWORK / PIPE MATCH TO EXISTING

LEGEND

NEW WORK



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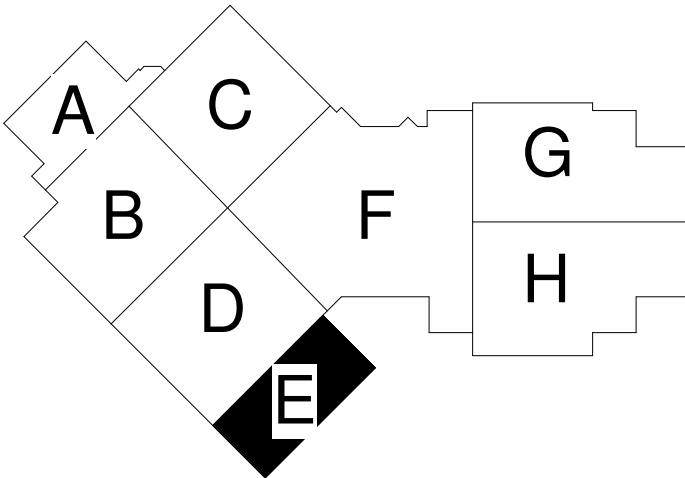
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SHEET INFORMATION

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NOVEMBER 3, 2022

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FIRST FLOOR
PLAN AREA E

SCALE

Scale: As Indicated

SHEET NUMBER

A101E

3/11/2022 11:44:55 a.m. 22006.10 ESSER HVAC Improvements- Jefferson High School



1

FIRST REFLECTED CEILING PLAN AREA E

1/8" = 1'-0"



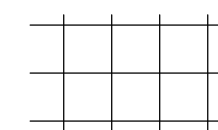
CEILING COORDINATION NOTES

ANY DAMAGE TO THE EXISTING ACOUSTIC CEILING TILES SYSTEM AND GRID SHALL BE REPLACE OR REPAIR AT NO COST TO THE OWNER. GENERAL CONTRACTOR TO VERIFY OWNER OF ANY DAMAGE CEILINGS PRIOR TO THE COMMENCEMENT OF DEMOLITION.

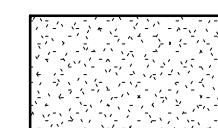
REFLECTED CEILING PLAN KEY NOTES

R1 REINSTALL SALVAGED ACT CEILING SYSTEM

CEILING PLAN LEGEND



2X2 SUSPENDED ACT CEILING SYSTEM



GYPSUM BOARD CEILING SYSTEM



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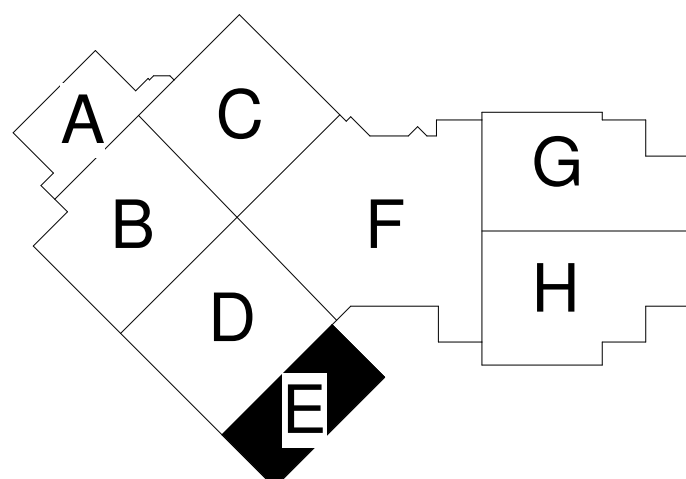
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**Saavedra
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Architects**

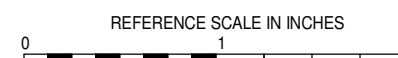
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CONSTRUCTION DOCUMENTS

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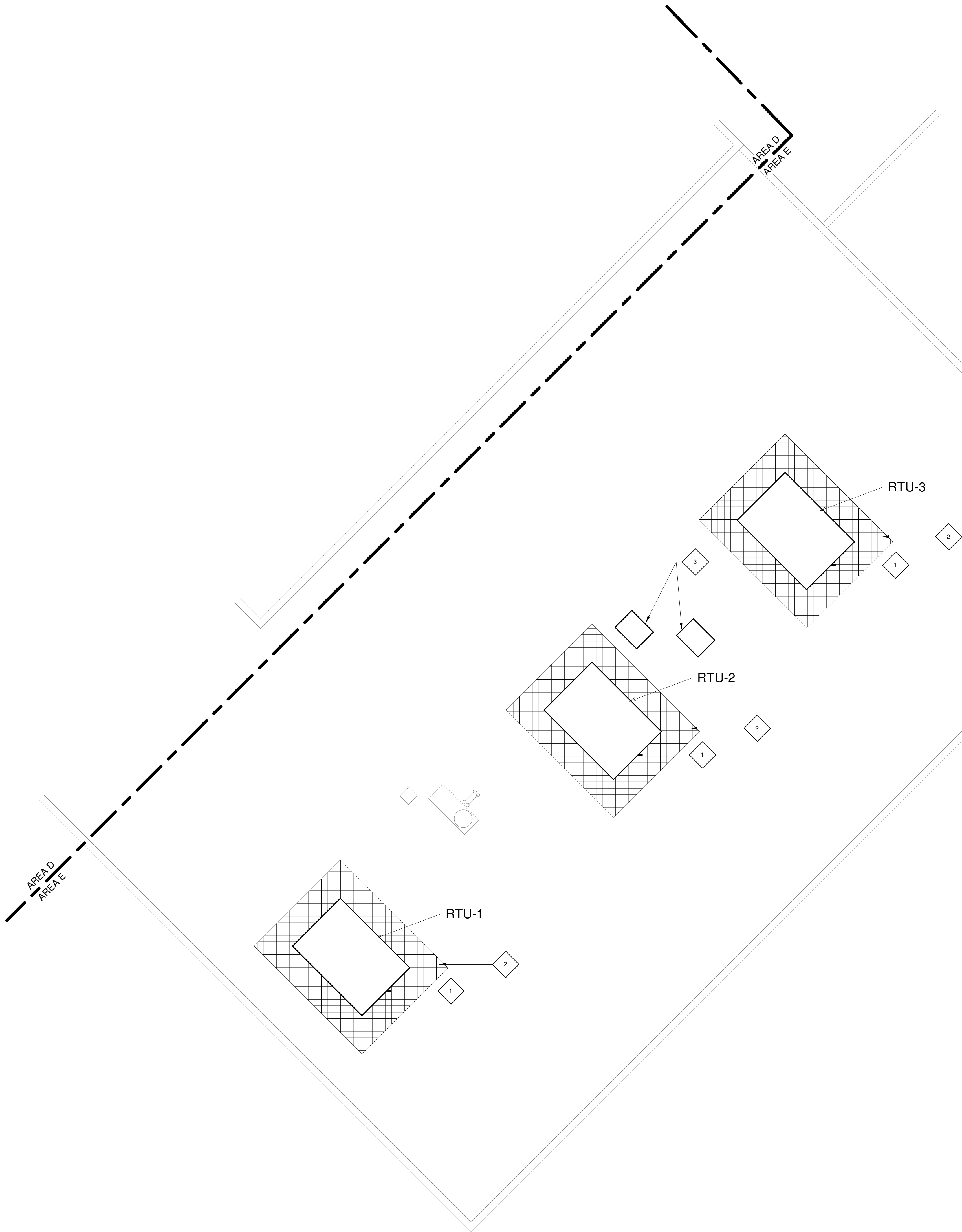
**FIRST
REFLECTED
CEILING
FLOOR PLAN
AREA E**

SCALE

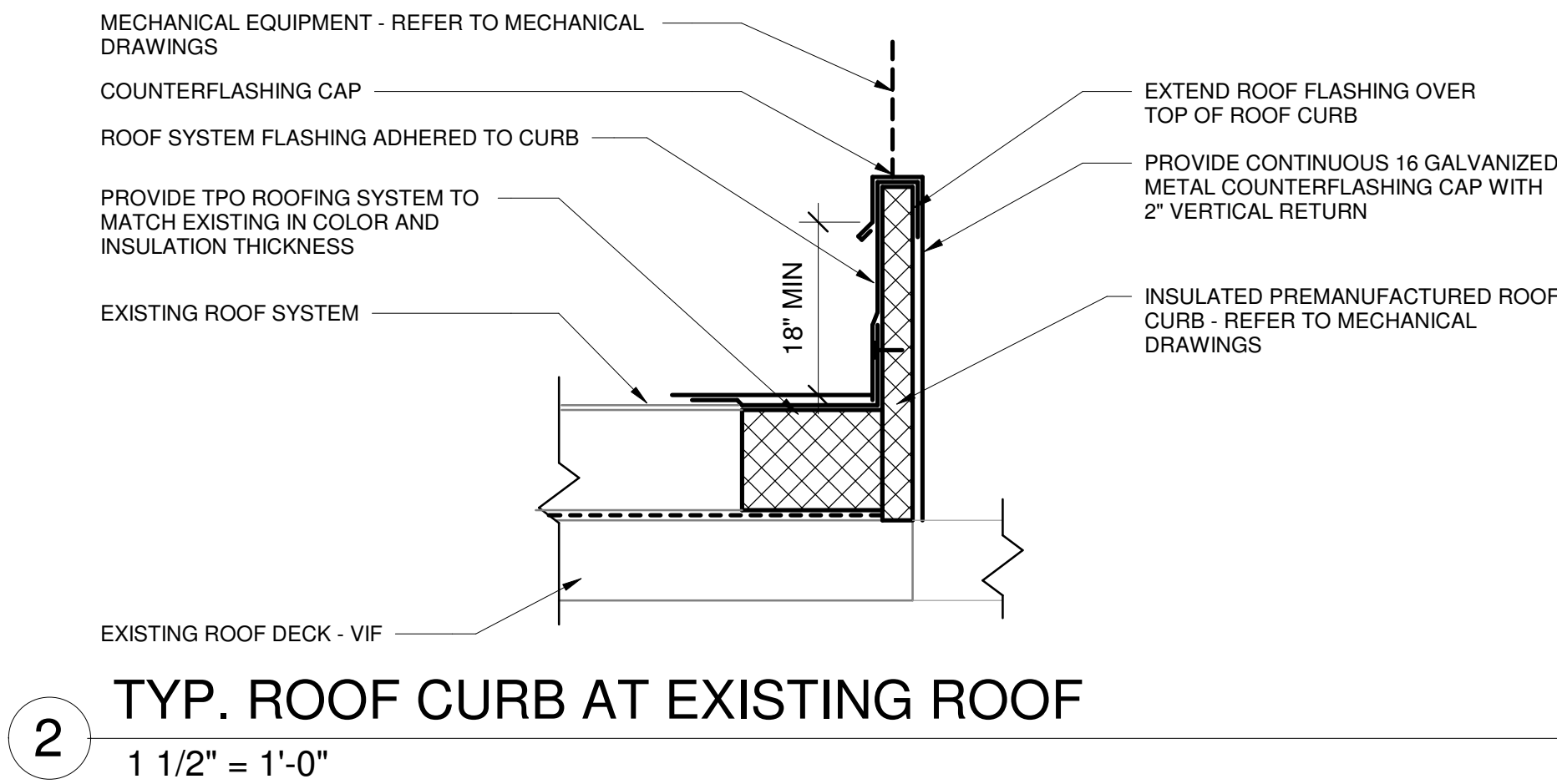
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SHEET NUMBER

A201E



1 ROOF PLAN AREA E
1/8" = 1'-0"



2 TYP. ROOF CURB AT EXISTING ROOF
1 1/2" = 1'-0"

LEGEND	
	NEW WORK

ROOF WARRANTY NOTE	
GENERAL CONTRACTOR TO VERIFY WITH EXISTING ROOFING MANUFACTURER THE REQUIREMENTS TO MAINTAIN EXISTING FULL ROOF WARRANTY PRIOR TO THE COMMENCEMENT OF ANY ROOF WORK.	

ROOF KEY NOTES	
1	MECHANICAL EQUIPMENT - SEE MECHANICAL DRAWINGS, STRUCTURAL DRAWINGS AND DETAIL 2/A204E
2	PROVIDE WALKWAY PADS ALL SIDES OF MECHANICAL EQUIPMENT.
3	AFTER MECHANICAL EQUIPMENT HAS BEEN REMOVED, PATCH ROOF TO MATCH EXISTING INSULATION THICKNESS, AND ROOFING SYSTEM.

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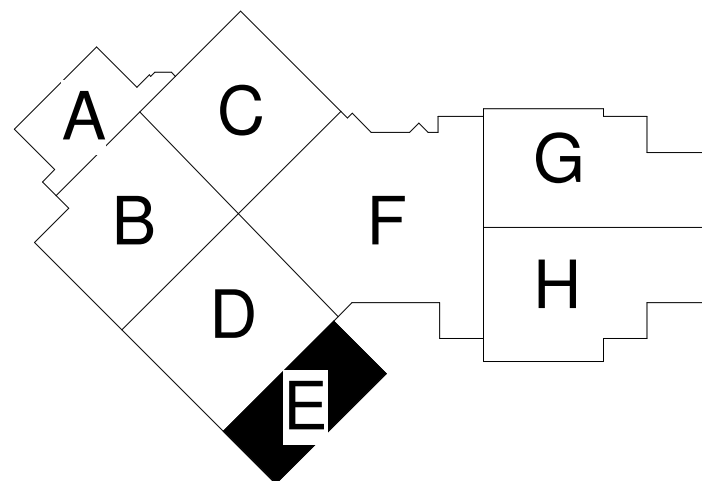
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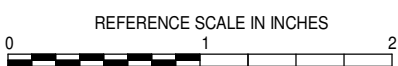
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SHEET INFORMATION

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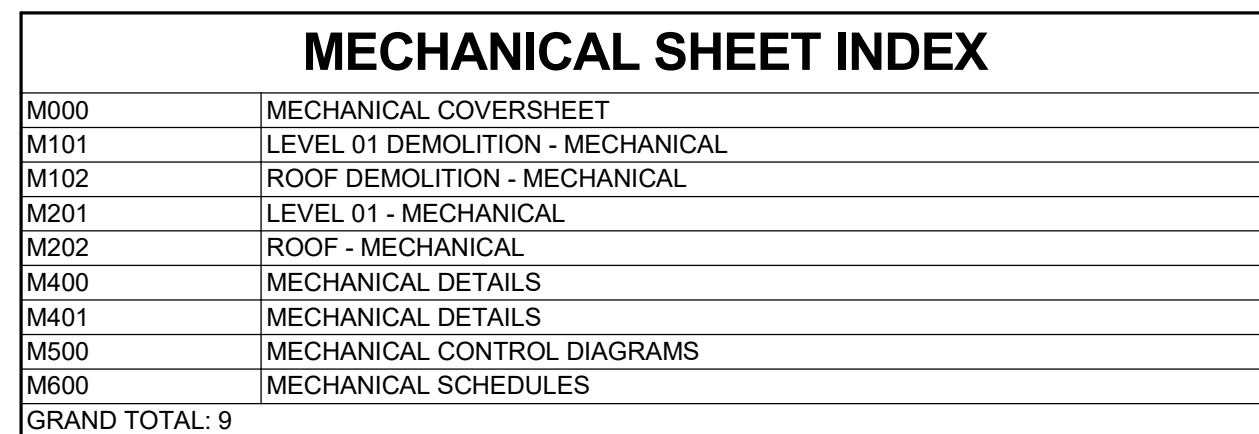
**ROOF PLAN
AREA E**

SCALE

Scale: **As Indicated**

SHEET NUMBER

A204E



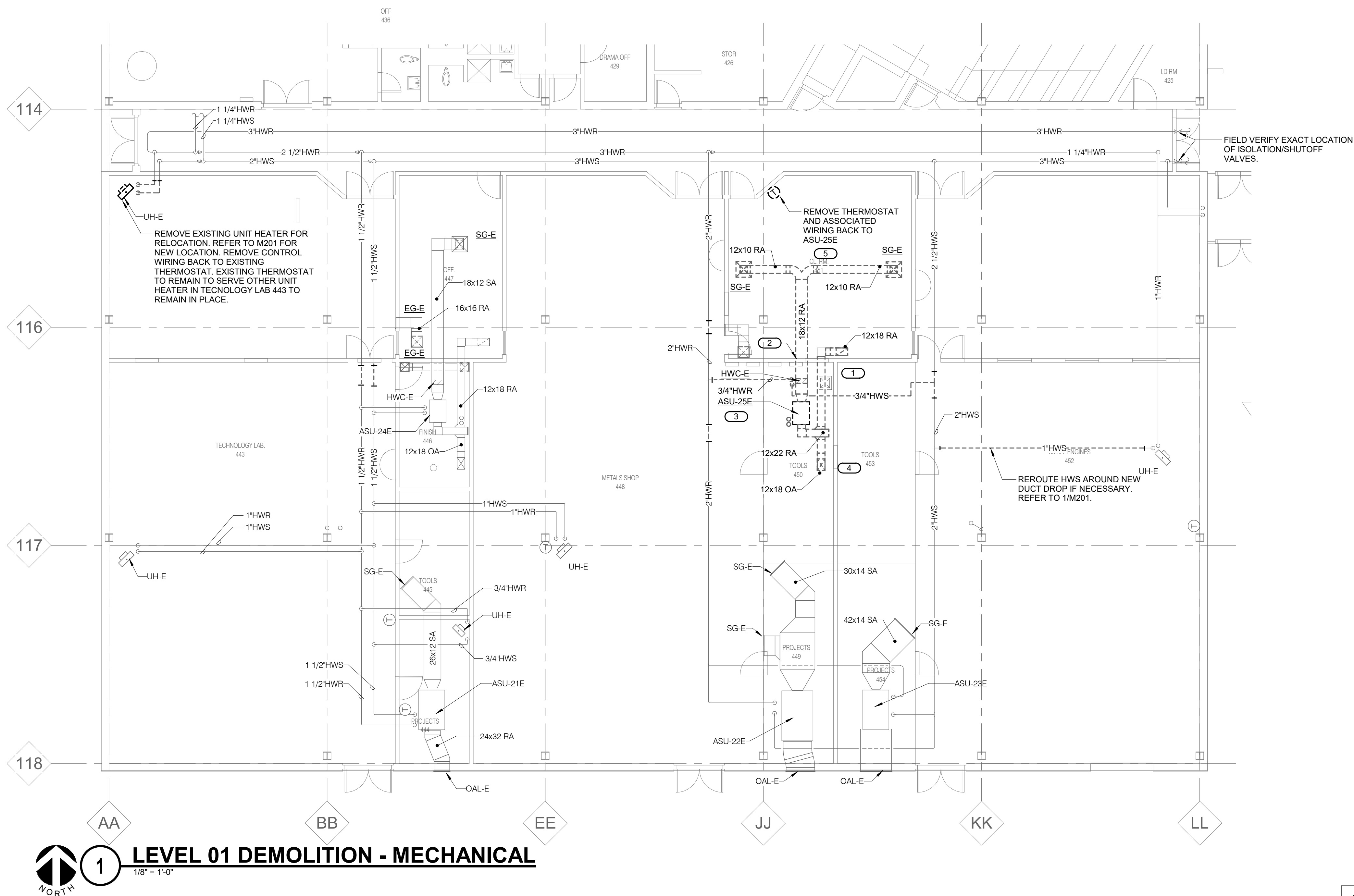
PLUMBING SLOPE REQUIREMENTS:	
	BASED ON ILLINOIS PLUMBING CODE 2014 EDITION
CONDENSATE AND INDIRECT DRAINAGE:	1/8" PER FOOT

1. REFER TO GENERAL CONTRACTOR'S/ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
2. REVIEW PROJECT PHASING TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH ADJACENT ADJACENT AREAS.
3. REMOVE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
4. INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
5. PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. THE CONTRACTOR SHALL VERIFY THE GENERAL LOCATION OF PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS ALLOW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INFORMATION NOT ON SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR SPECIFICATIONS. VERIFY ALL SIZES AND TYPES OF EQUIPMENT AND TRADES TRADERS.
2. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO PREVENT INTERFERENCE WITH INTERFERING TRADES. VERIFY ALL TRADES FOR ANY INTERFERENCE OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INFORMATION NOT ON SCALE DRAWINGS.
3. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
4. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR PENALTY TO OTHER TRADES.
5. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING EQUIPMENT AND OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL TRADES.
7. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR REPAIRING THE DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH.
8. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE ARCHITECT. GAIN ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
9. VERIFY ALL FLOOR AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUCITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR THE APPLICATION.
10. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE AND AIR LEAKAGE FROM ONE FLOOR TO THE NEXT. VERIFY ALL PENETRATIONS AT ALL LEVELS WITHIN ROOMS.
11. WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED PENETRATIONS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATER TIGHT.
12. EQUIPMENT AND DUCTS ARE DIFFERENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANUFACTURERS' CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, DUCTWORK, PIPING, ETC.
13. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
14. MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT. EQUIPMENT MAINTENANCE SPACE SHALL BE MAINTAINED AND NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
15. PROVIDE CLEARANCE OF 6'-0" ABOVE ALL EQUIPMENT MEASURED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL SPACE ARE NOT TO BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE INCLUDING DUCTWORK, PIPING, ETC.
16. PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL BE 12" THICK CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE APPROVED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
18. ROOF WARRANTY NOTE:
CONTRACTOR TO VERIFY WITH EXISTING ROOFING MANUFACTURER THE REQUIREMENTS FOR MAINTAINING EXISTING FULL ROOF WARRANTY PRIOR TO THE COMMENCEMENT OF ANY ROOF WORK.

[illegible]

SHEET NUMBER



- SHEET NOTES:

 - WHERE EXISTING INSULATION IS REMOVED FOR DEMOLITION, REINSULATE ANY EXISTING PIPING TO REMAIN PER NEW PIPING INSULATION SCHEDULE.
- KEYNOTES: **#**

 - PATCH HOLE LEFT BY REMOVED DUCTWORK.
 - NEW DUCTWORK WILL BE ROUTED THROUGH EXISTING OPENING LET BY REMOVED DUCTWORK. REFER TO 1/M201.
 - REMOVE ASU-25E AND ACCESSORIES. REMOVE CONDENSATE LINES, REFRIGERANT LINES, AND ASSOCIATED ACCU-E ON ROOF. REFER TO 1/M02 FOR CONTINUATION.
 - UP TO GOOSENECK, REMOVE GOOSENECK AND DUCTWORK. PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
 - REMOVE AND REINSTALL DROP CEILING AS NECESSARY FOR NEW WORK. COORDINATE WITH E.C. AND ARCHITECT.



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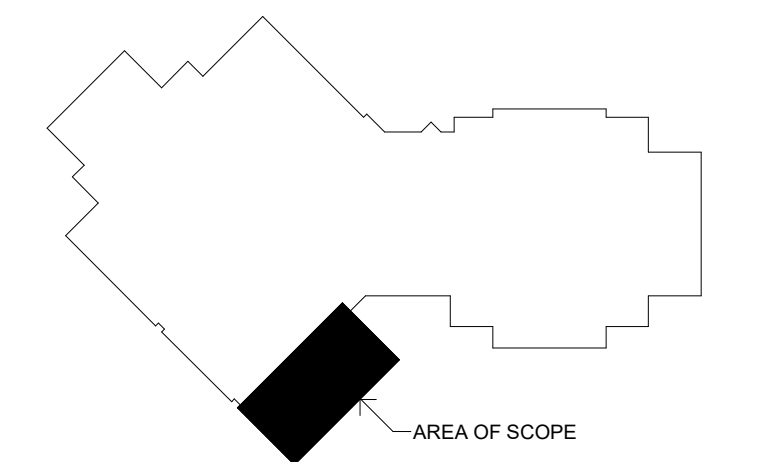
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REVISIONS

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Approved	BRAPIE

SHEET TITLE

LEVEL 01 DEMOLITION

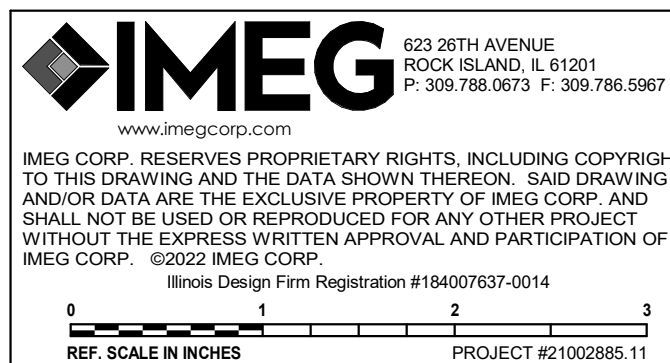
MECHANICAL

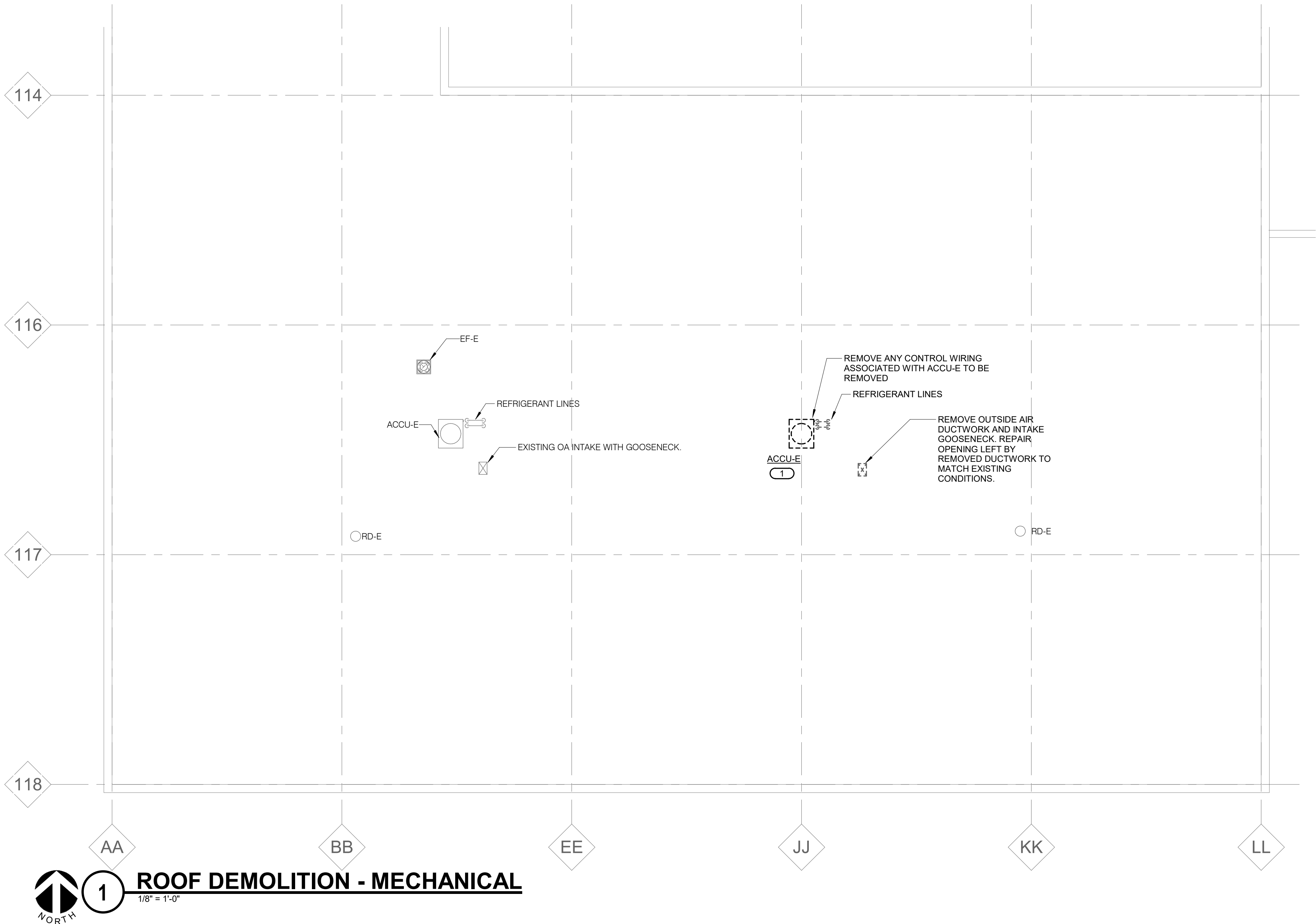
SCALE

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

SHEET NUMBER

M101





KEYNOTES: **II**
1. REMOVE ACCU-E ON ROOF AND ASSOCIATED PIPING. REFER TO M101 FOR CONTINUATION.

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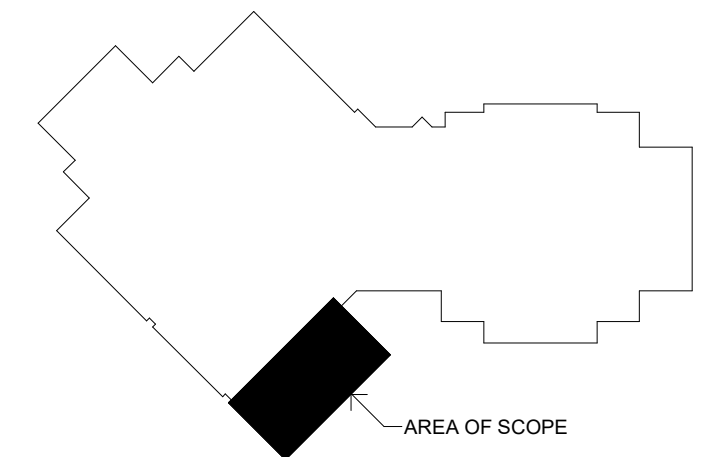
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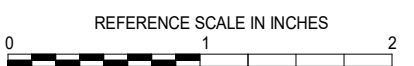
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REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.11
Drawn	ZACMAN
Checked	BRAPIE
Approved	BRAPIE

SHEET TITLE

ROOF
DEMOLITION
MECHANICAL

SCALE

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SHEET NUMBER

M102

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REFERENCE SCALE IN INCHES

REVISIONS

No	Date	Revision / Issue
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SHEET INFORMATION

Construction Documents

November 03, 2022

Job Number 21002885.11

Drawn ZACMAN

Checked	BRAPIE
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Approved _____ **BRAPIE**

SHEET TITLE: _____

**LEVEL 01 -
MECHANICAL**

SCALE

Scale: $1/8" = 1'-0"$

SHEET NUMBER

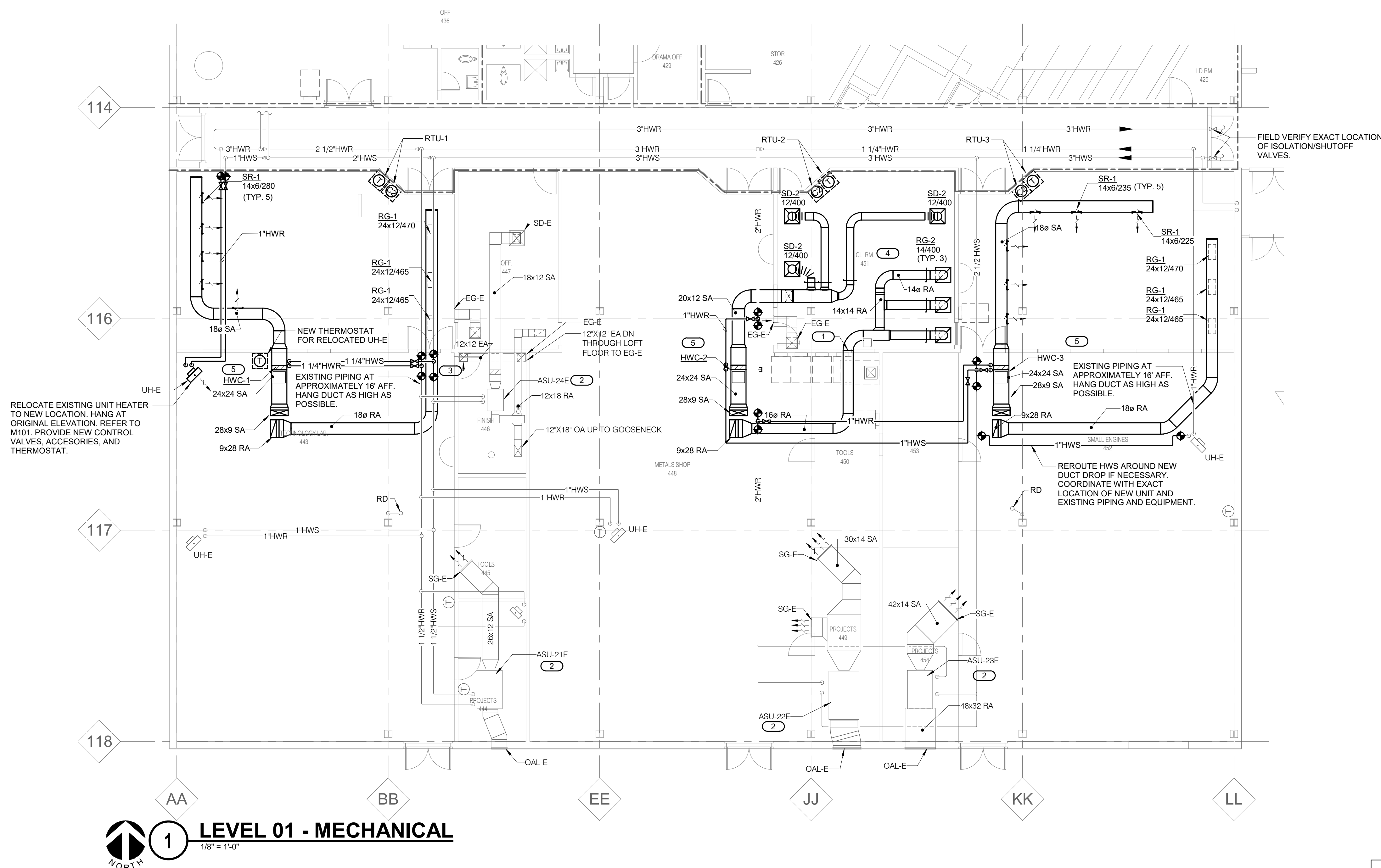
M201

SHEET NOTES:

1. ROUTE EXPOSED DUCTWORK AND PIPING AS HIGH AS POSSIBLE IN SPACE, ABOVE HANGING LIGHT FIXTURES.
2. REMOVE EXISTING INSULATION IS REMOVED FOR DEMOLITION. REINSULATE ANY EXISTING PIPING TO 1/2" MIN PER INSULATION INSULATION SCHEDULE.
3. PROVIDE PROTECTIVE CAGES FOR ALL THERMOSTATS AND CO2 SENSORS.
4. IN ROOMS WITH FINISHED CEILING, PROVIDE WIRE MOLD FOR ALL SURFACE MOUNTED CABLING FROM THERMOSTATS AND CO2 SENSORS TO ABOVE CEILING.
5. PROVIDE CONDUIT FOR ALL CABLE ABOVE FINISHED CEILINGS AND FOR ALL CABLE IN ROOMS WITHOUT FINISHED CEILINGS.
6. ALL EXPOSED ROUND DUCT SHALL BE GALVANIZED DOUBLE WALL SPIRAL DUCT. ALL RECTANGULAR DUCT SHALL BE WRAPPED SINGLE WALL DUCT WITH LAMINATED ALUMINUM JACKETING REINFORCED SPECIFICALLY FOR DESCRIPTION OF DUCTWORK TYPE.

KEYNOTES:

1. ROUTE NEW RETURN DUCTWORK THROUGH EXISTING OPENING. ENLARGE AS NECESSARY AND SEAL EXISTING DUCTWORKS AIRTIGHT.
2. UNIT HANGING FROM STRUCTURE AND LOCATED ABOVE LOFT.
3. 12"X12" EA UP TO EXISTING EXHAUS FAN ON ROOF.
4. GC TO REMOVE AND REINSTALL DROP CEILING AS NECESSARY FOR NEW WORK. COORDINATE EXACT DIFFUSER/GRILLE LOCATION IN CEILING GRID WITH E.C. AND ARCHITECT.
5. REFER TO DETAIL 3/M400 AND 5/M400.



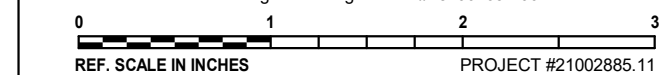
1 LEVEL 01 - MECHANICAL

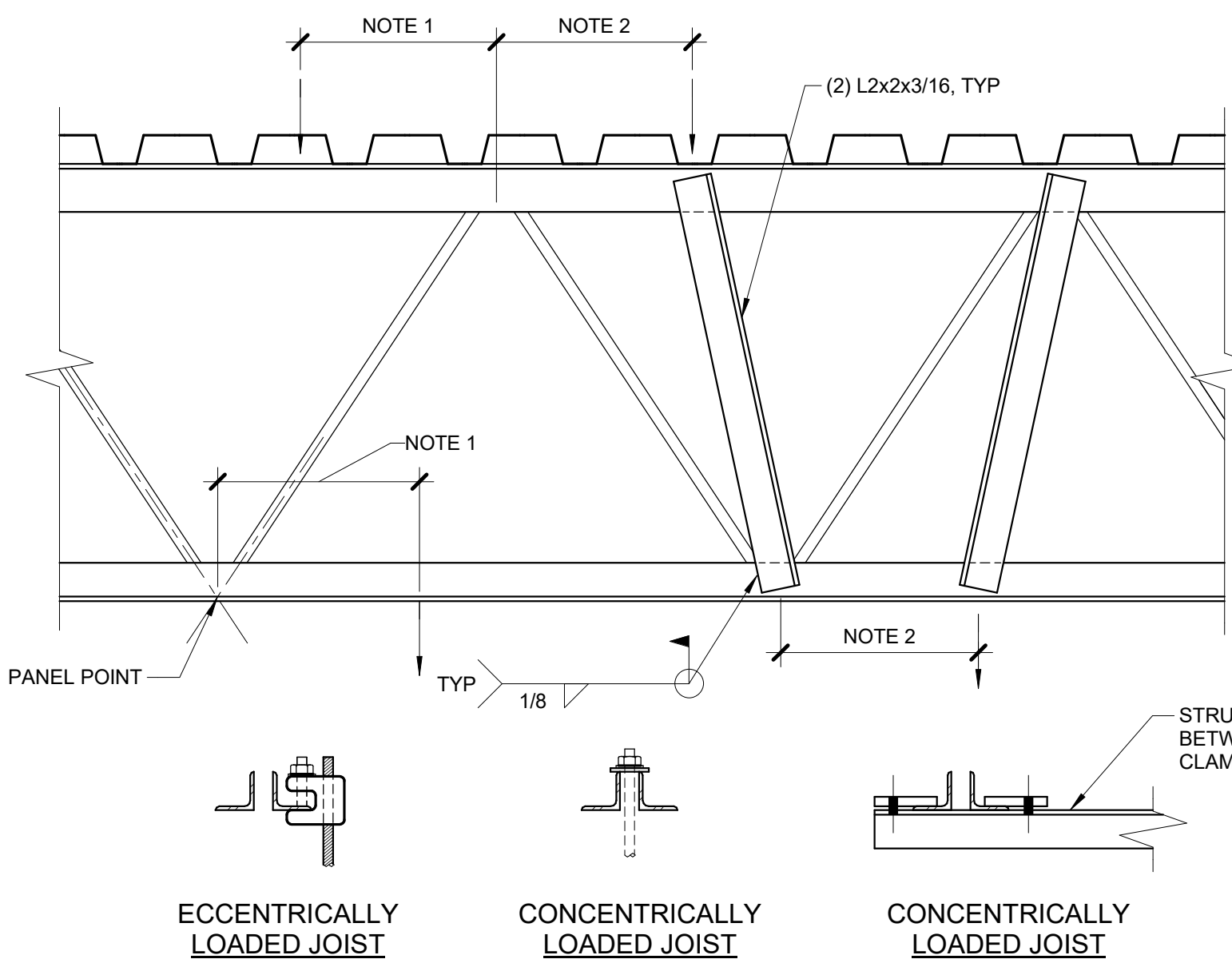


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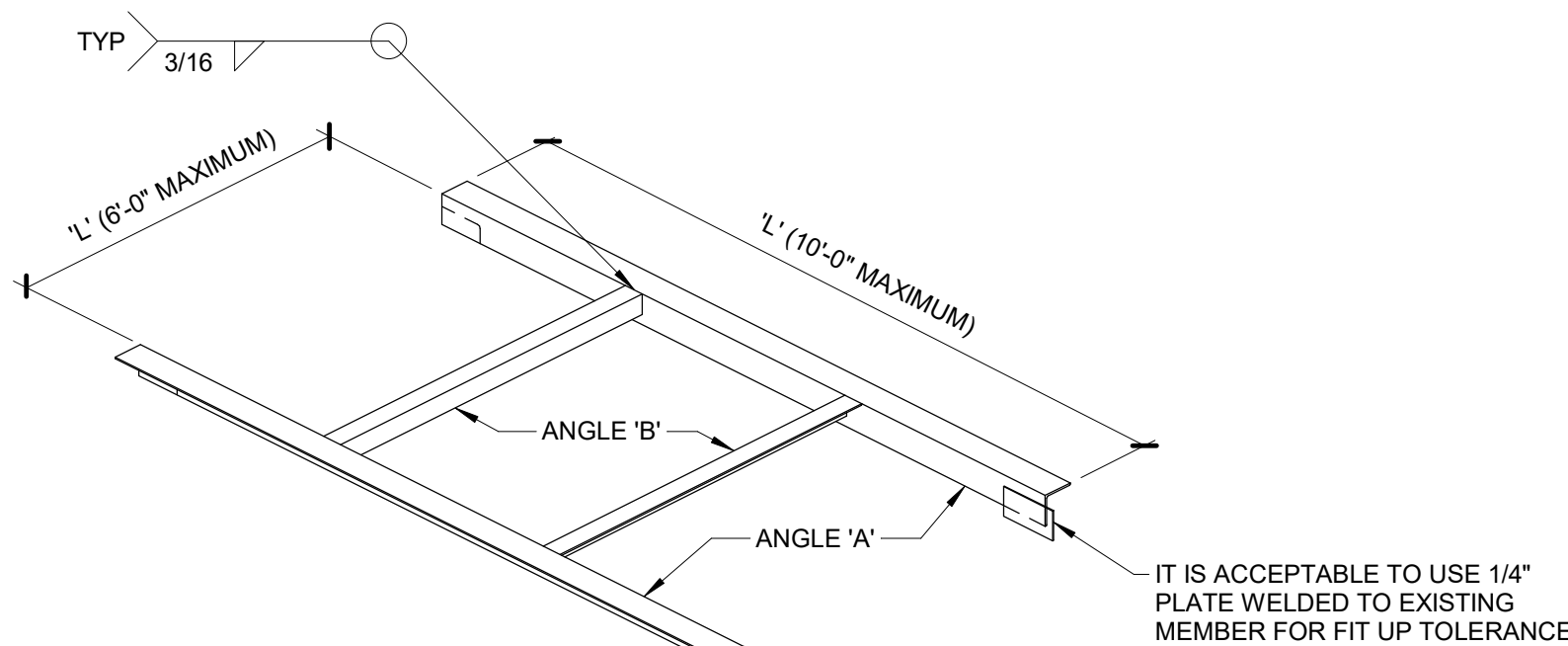


NOTES:

1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

2 JOIST MODIFICATION DETAIL

1 1/2" = 1'-0"



3 JOIST REINFORCING DETAIL

NO SCALE

STEEL JOIST REINFORCING SCHEDULE

MARK #	RTU #	WEB REINFORCING			REMARKS
		SIZE	'B'	'C'	
A	1	(2) 1/2" A36 RODS	12'-0"	12'-0"	
B	2	(2) 1/2" A36 RODS	11'-0"	11'-0"	

NOTES:

1. REMOVE AND REINSTALL JOIST BRIDGING AS NECESSARY TO INSTALL REINF MEMBERS.
2. JOIST REINF IS DUE TO NEW ROOF EQUIPMENT. PRIOR TO PLACING EQUIPMENT OR BUILDING TALLER STRUCTURE, JOIST REINF MUST BE INSTALLED.
3. JOIST SHALL BE SHORED.
4. SPLICE CHORD REINF SEGMENTS TOGETHER TO DEVELOP FULL CAPACITY OF MEMBER. SPLICE DETAIL BY STEEL FABRICATOR.

STRUCTURAL SHEET NOTES:

1. ONLY STRUCTURAL MEMBERS APPLICABLE TO REINFORCEMENT OF JOISTS DUE TO RTUS ARE SHOWN HEREIN.
2. MATERIALS FOR NEW WORK:
 - A. STRUCTURAL STEEL ANGLES AND RODS SHALL CONFORM TO ASTM A36.
 - B. ELECTRODES FOR ARC WELDING SHALL CONFORM TO AWS 5.1, E70XX.
3. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
4. EXISTING CONDITIONS:
 - A. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED AUGUST 23, 1976 AND OCTOBER 15, 1976 BY ORPUT ASSOCIATES, INC.
 - B. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK, WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE SEOR SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
5. SHOP DRAWINGS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
6. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE STRUCTURAL ENGINEER SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE STRUCTURAL ENGINEER.
7. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS IN RELATION TO THE STRUCTURAL PLAN AND DETAIL AND SHOWN FOR DUCTS, PIPE, INSERTS, AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
8. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION. START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS, IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
11. ANY EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL, ETC. ITEMS ATTACHED TO OR HANGING FROM EXISTING STRUCTURAL FRAMING WHICH REQUIRES REINFORCEMENT SHALL BE PROPERLY SHORED, REMOVED FROM STRUCTURAL ELEMENTS, THEN REATTACHED AFTER REINFORCEMENT WORK IS COMPLETE.
12. STRUCTURAL FRAMING MEMBERS SHALL NOT BE CUT OR REMOVED. MODIFICATION OF STRUCTURAL FRAMING IS ONLY ACCEPTABLE AS SHOWN IN DETAILS 2 AND 3 OF THIS SHEET.
13. FOR ADDITIONAL MEP ITEMS BEING ATTACHED TO EXISTING JOIST AS WORK DONE FOR THIS PROJECT SEE DETAIL 2M202.
14. FOR LINTELS IN NON LOAD BEARING WALLS SEE DETAIL 5M202.
15. ANGLE FRAMING FOR CURB SUPPORT SHALL BE PROVIDED PER 4M202 AND ARCHITECTURAL DRAWINGS. GC TO COORDINATE.

MECHANICAL SHEET NOTES:

1. ROUTE TCC CABLING FROM BELOW, SEAL ALL PENETRATIONS WEATHER AND AIR TIGHT. PAINT ALL EXPOSED CONDUIT WITH EXTERIOR RATED PAINT, COLOR SELECTION BY OWNER/ARCHITECT.

KEYNOTES: (E)

1. MAINTAIN A 12" OR GREATER CLEARANCE BETWEEN ROOF EDGE AND ROOFTOP UNIT.
2. ROUTE CONDENSATE TO NEAREST ROOF DRAIN. ROOF DRAIN LOCATIONS ARE APPROXIMATE. FIELD VERIFY, REFER TO DETAIL 4M400 FOR CONDENSATE PIPING TRAP.

'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

NOTES:

1. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION ON NEW OPENINGS.

4 ROOF OPENING DETAIL

NO SCALE

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS. LINTELS OCCURRING IN EXISTING BEARING WALLS ARE TO BE SIZED ACCORDING TO SIMILAR CONDITIONS AND SPANS IN THE NEW CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS AND AT LEAST 1 COURSE BELOW THE TOP OF WALL.
3. LINTELS IN NON-BEARING MASONRY CAN BE SIZED PER THE FOLLOWING:

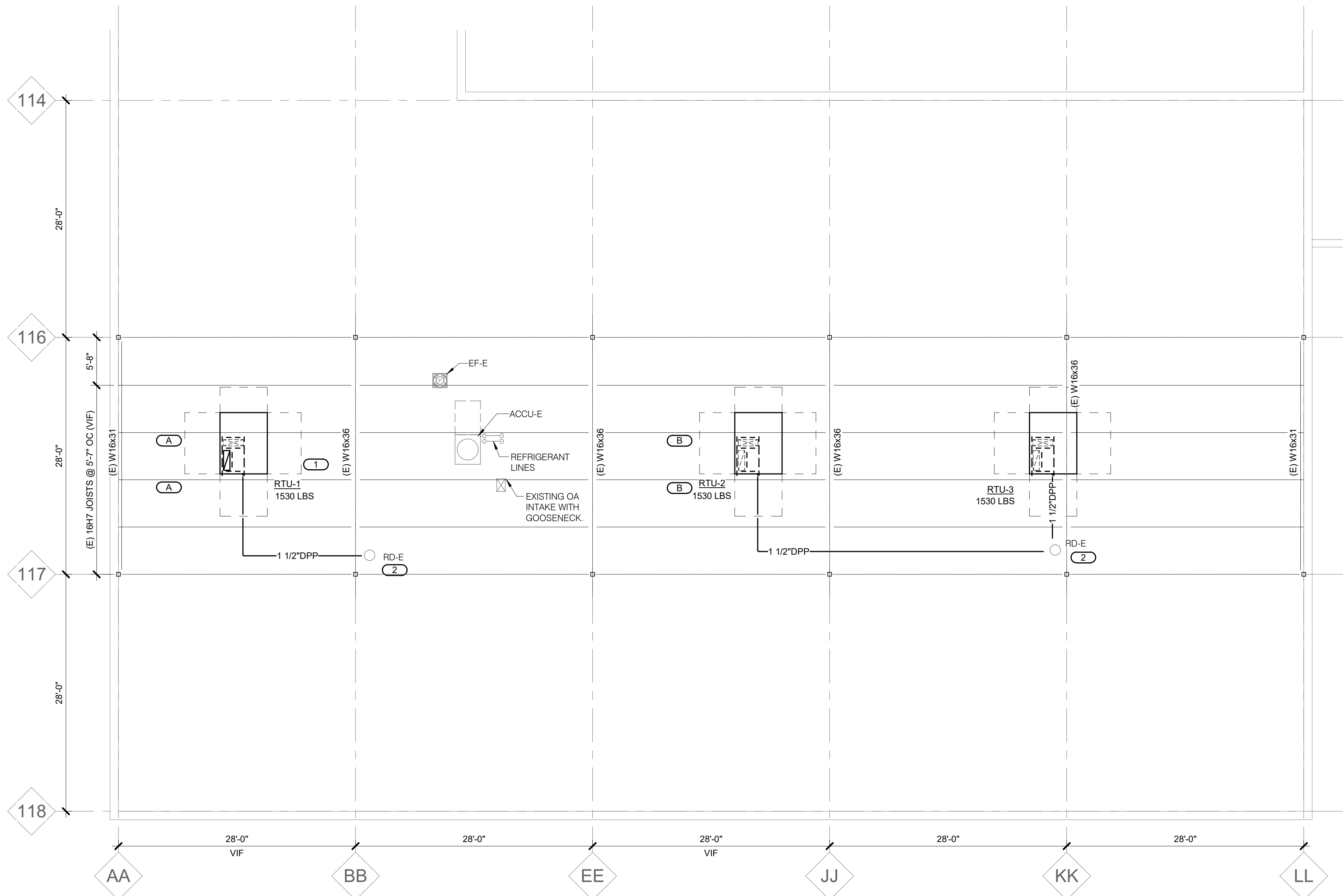
SPAN, L	STEEL OPTION (FOR EA 4" OF MASONRY*)
1'-0" < L < 4'-0"	L3 1/2x3 1/2x1/4
4'-0" < L < 6'-0"	L4x3 1/2x5/16 (LLV)
6'-0" < L < 8'-0"	L5x3 1/2x5/16 (LLV)
8'-0" < L < 10'-0"	L6 1/2x3 1/2x3/8 (LLV)

*ALL ANGLES THAT ARE BACK-TO-BACK SHALL BE WELDED TOP AND BOTTOM 3" @ 12" OC MINIMUM.

4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES, UNLESS OTHERWISE NOTED.
5. TEMPORARY SHORING OF MASONRY LINTELS MUST BE PROVIDED UNTIL MASONRY HAS REACHED 75% OF DESIGN STRENGTH.
6. ALL STEEL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNLESS OTHERWISE NOTED.

5 LINTEL GENERAL NOTES

NO SCALE



1 ROOF - MECHANICAL

1/8" = 1'-0"



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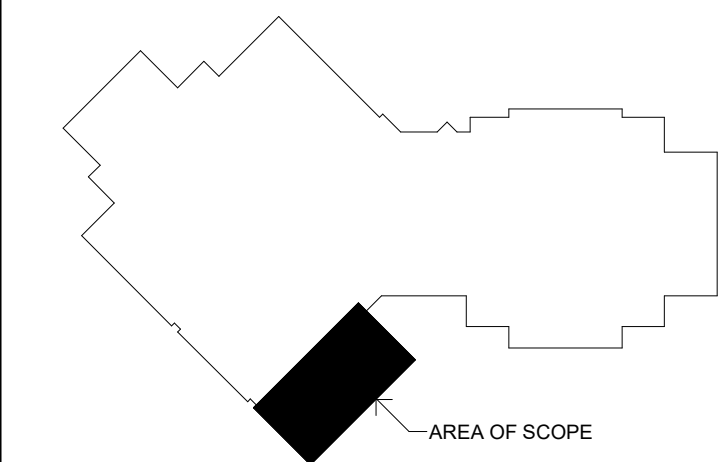
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Construction Documents

Issue November 03, 2022

Date 21002885.11

Job Number ZACMAN

Drawn BRAPIE

Checked BRAPIE

Approved BRAPIE

SHEET TITLE

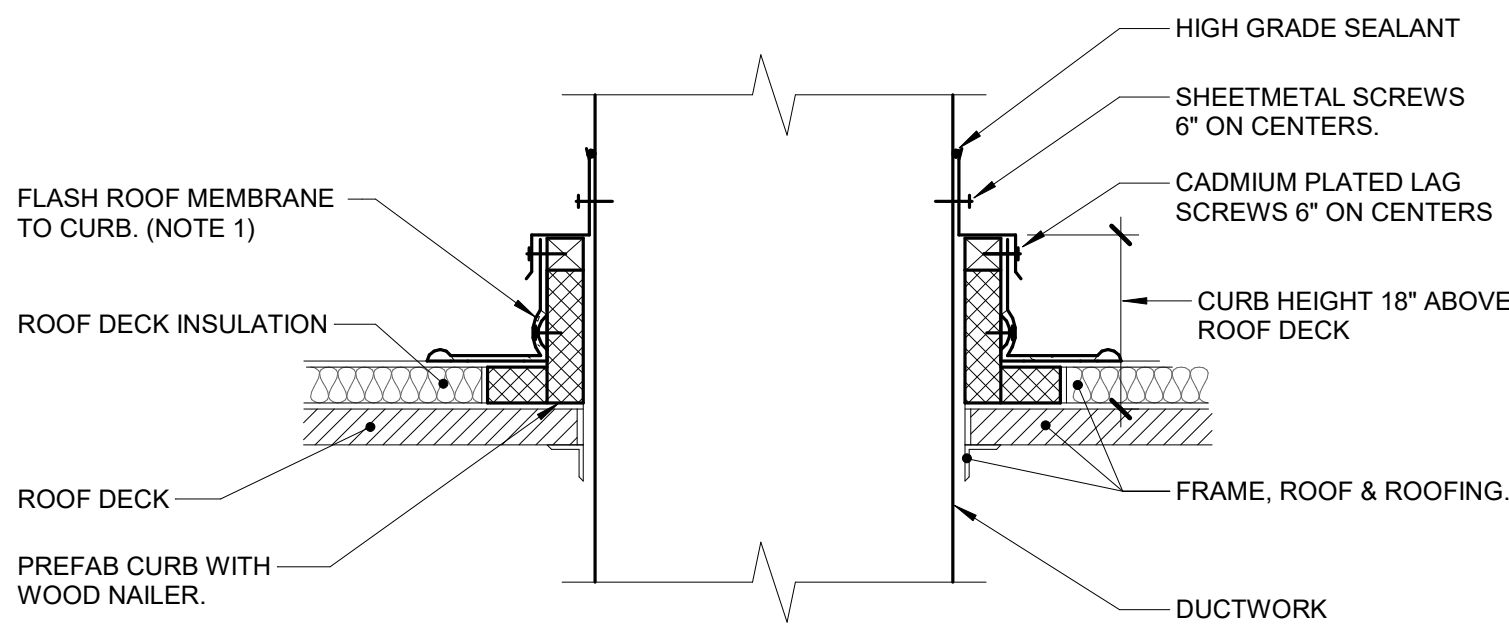
ROOF - MECHANICAL

SCALE

Scale: As Indicated

SHEET NUMBER

M202

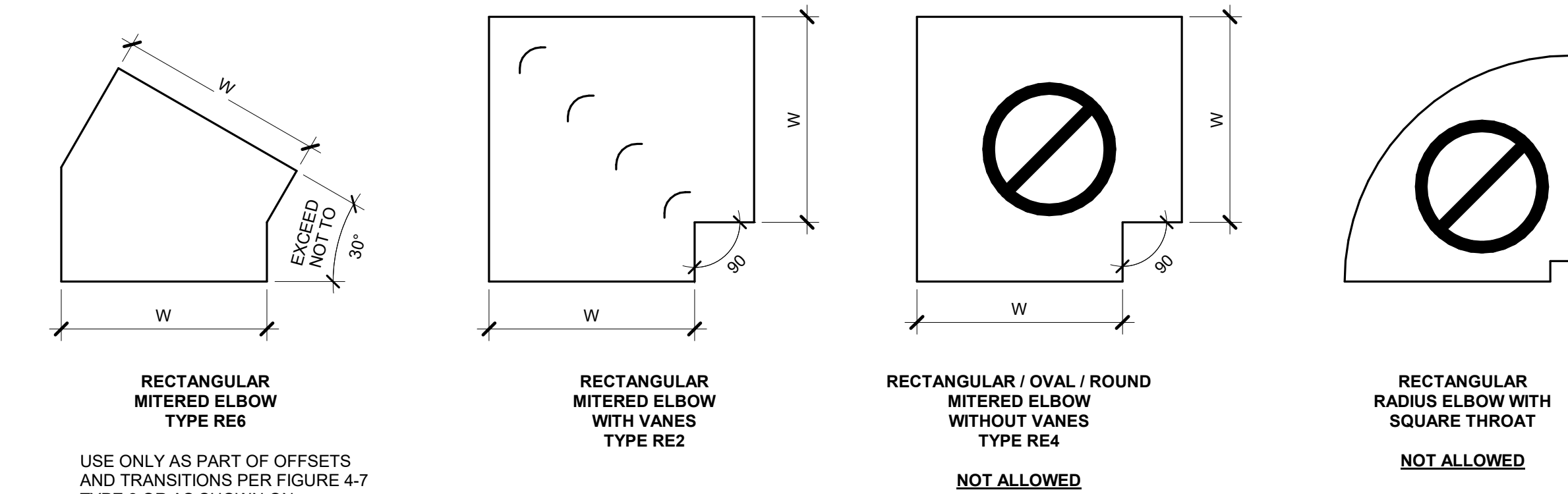
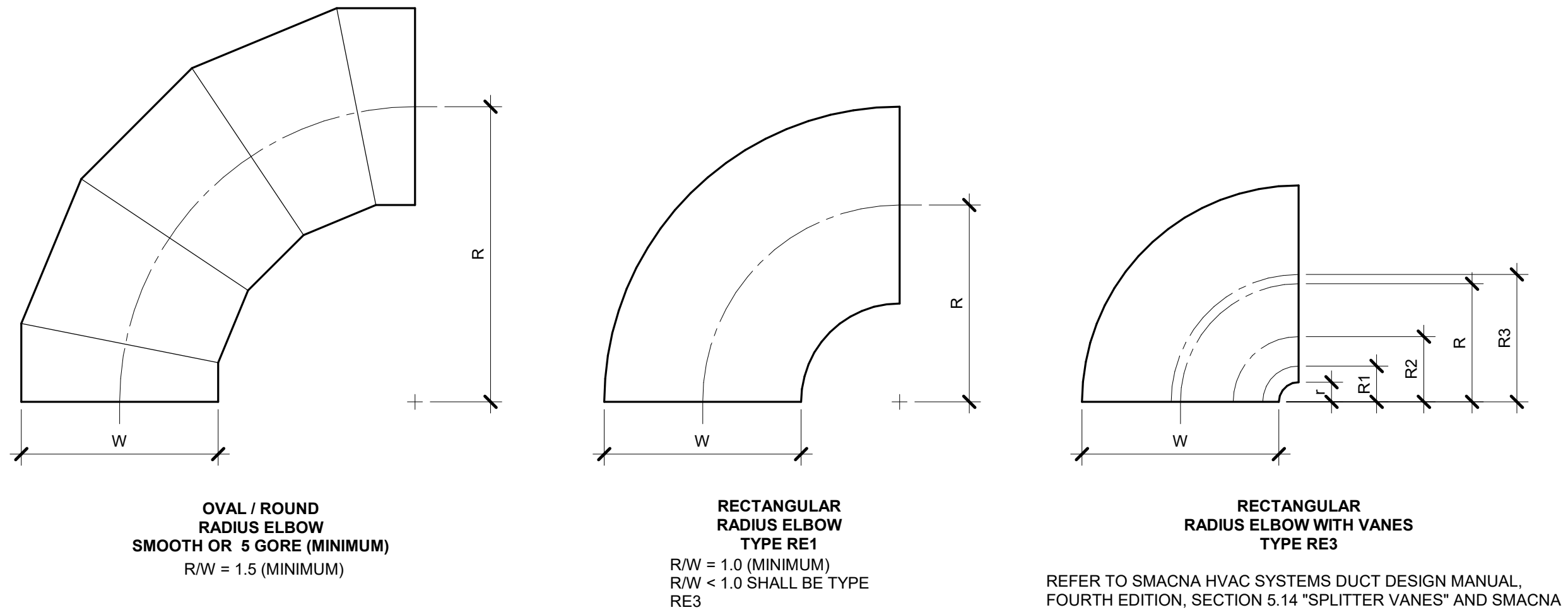


1 DUCT ROOF PENETRATION (MEMBRANE ROOF)

NO SCALE

NOTES:

1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.

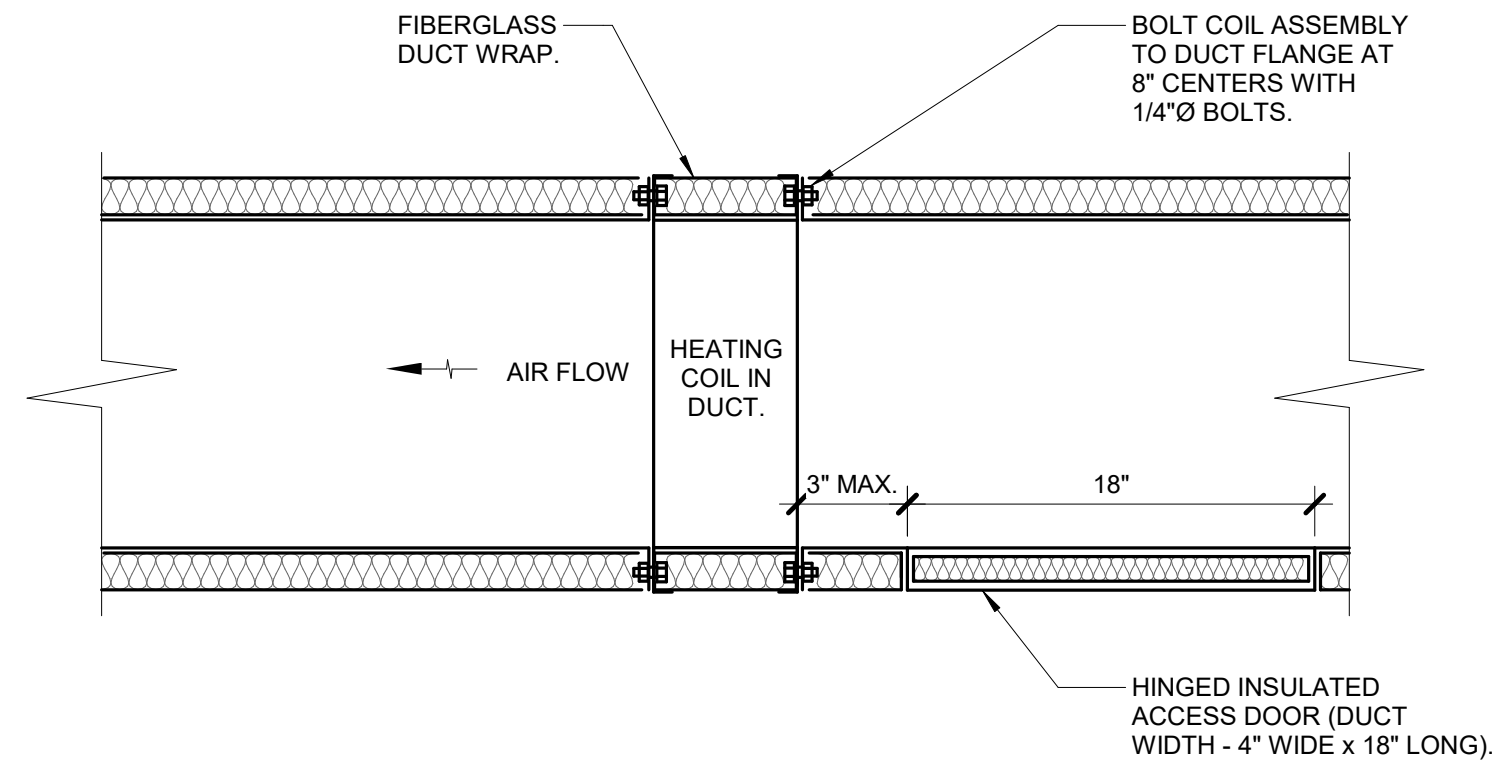


2 ELBOW CONSTRUCTION

NO SCALE

NOTES:

1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE 'RE1'.
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.

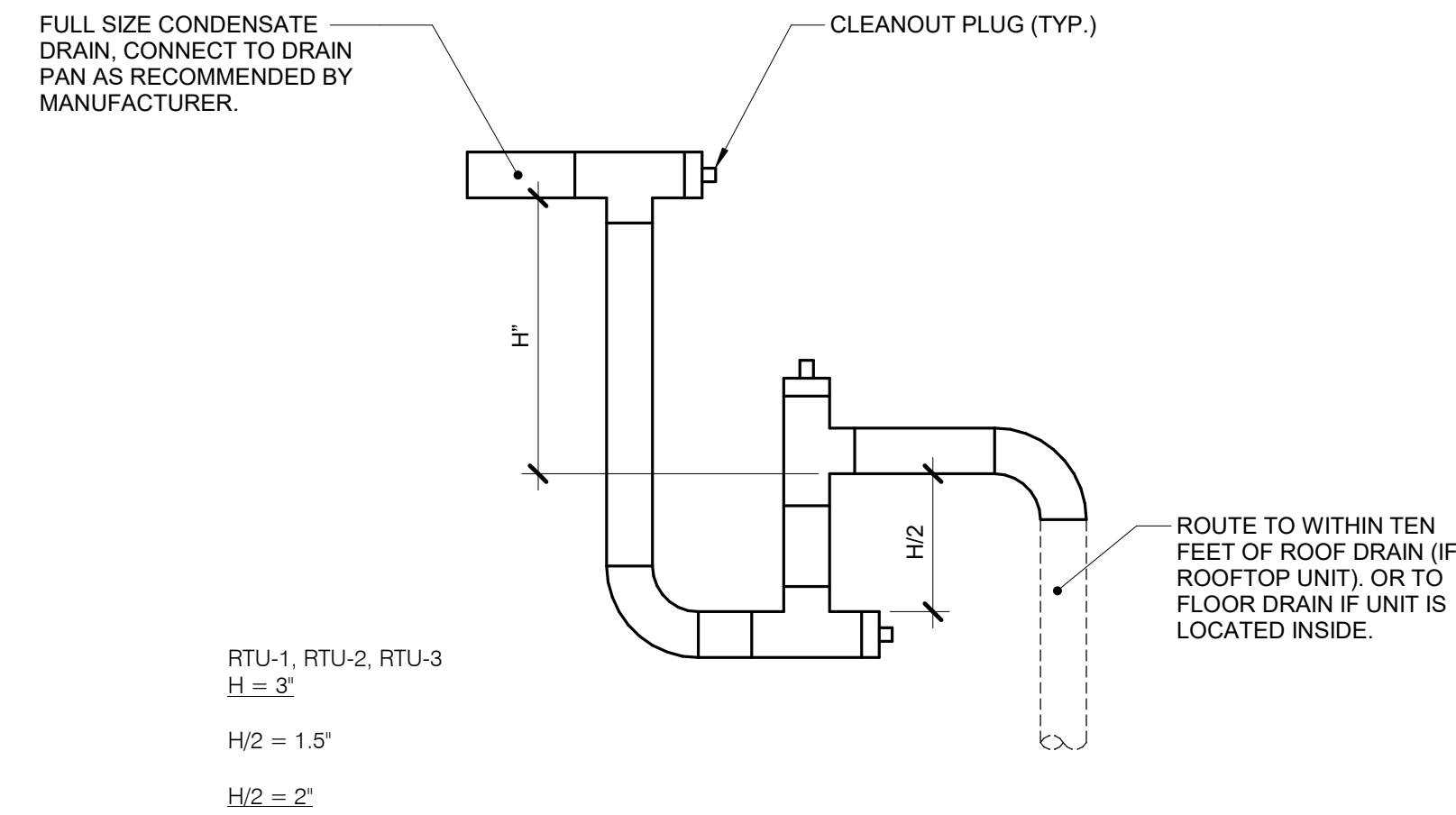


3 COIL - IN DUCT HEATING - WRAPPED

NO SCALE

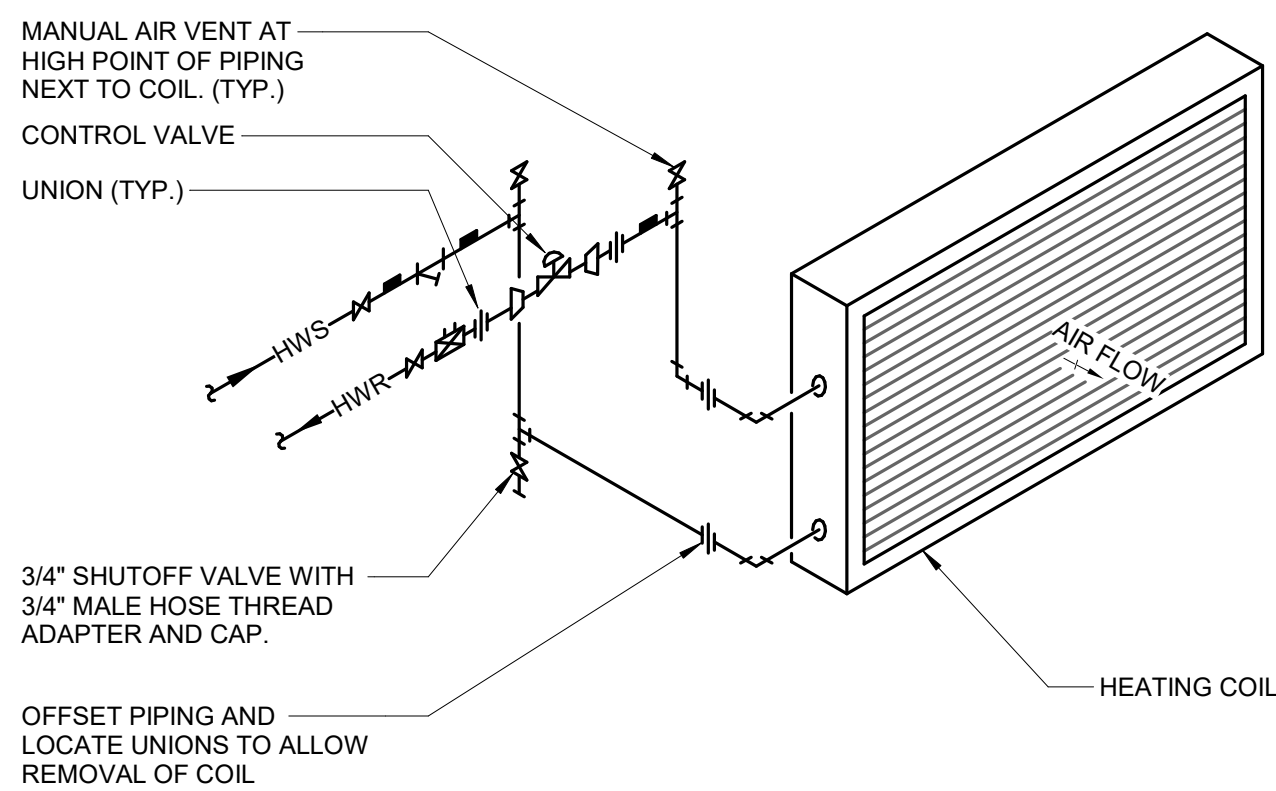
NOTES:

1. THIS DETAIL APPLIES TO ALL HEATING COILS INSTALLED IN DUCTS. ACCESS DOORS AND FLANGED CONNECTIONS MUST BE PROVIDED AT ALL COILS UNLESS SPECIFICALLY NOTED OTHERWISE.
2. PROVIDE FLANGED CONNECTION ON BOTH SIDES OF COILS. ACCESS DOORS ARE ONLY REQUIRED UPSTREAM OF COILS.
3. PROVIDE 42\"/>



4 CONDENSATE TRAP DETAIL (DRAW-THROUGH)

NO SCALE



5 COIL - HOT WATER PIPING DIAGRAM W/2-WAY VALVE

NO SCALE

NOTES:

1. SEE SPECIFICATION SECTION 23 21 00 - HYDRONIC PIPING FOR BALANCE VALVE SIZING REQUIREMENTS.

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Checked **BRAPIE**
Approved **BRAPIE**

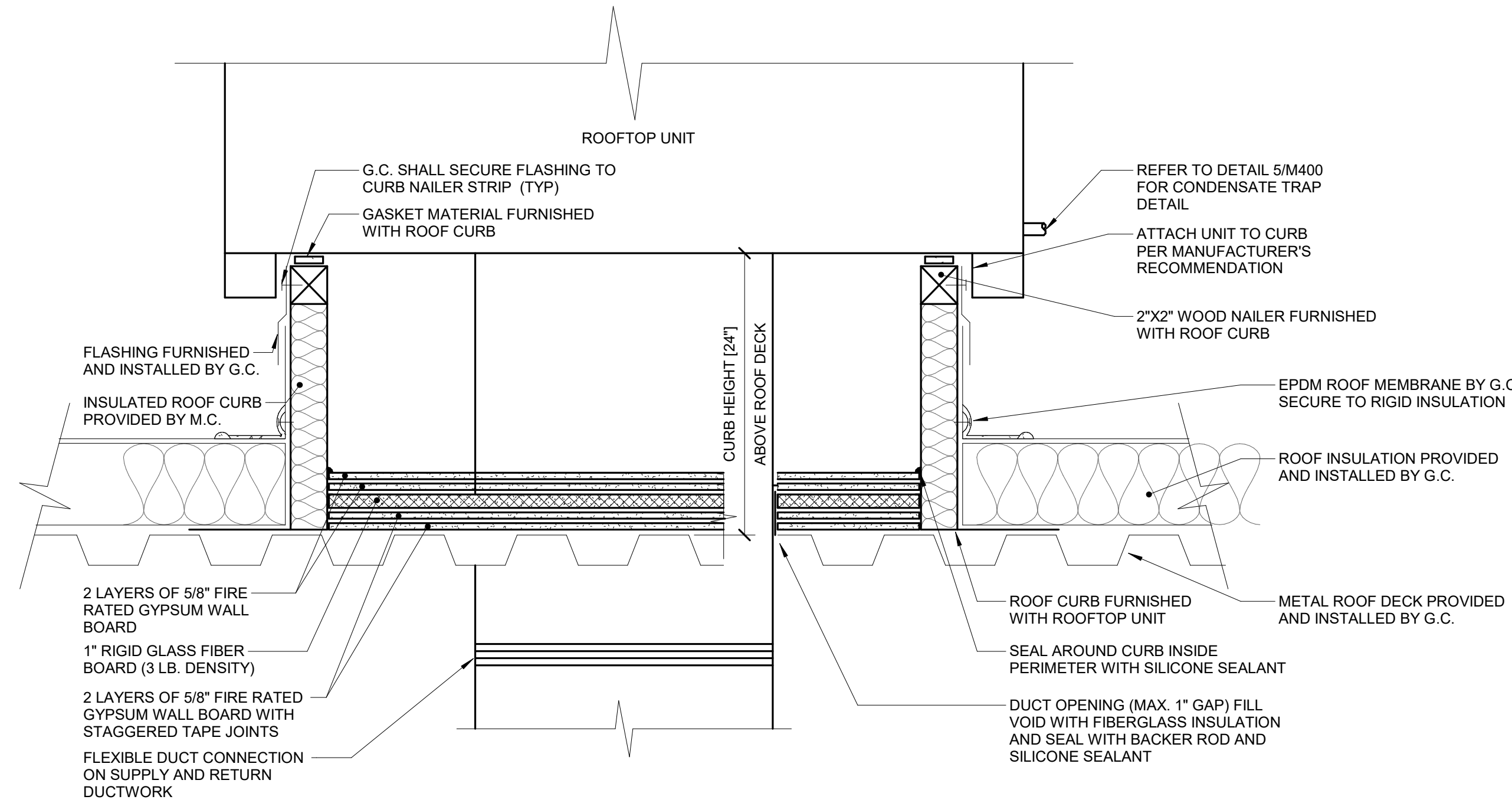
SHEET TITLE
MECHANICAL DETAILS

SCALE

Scale: **1/2" = 1'-0"**

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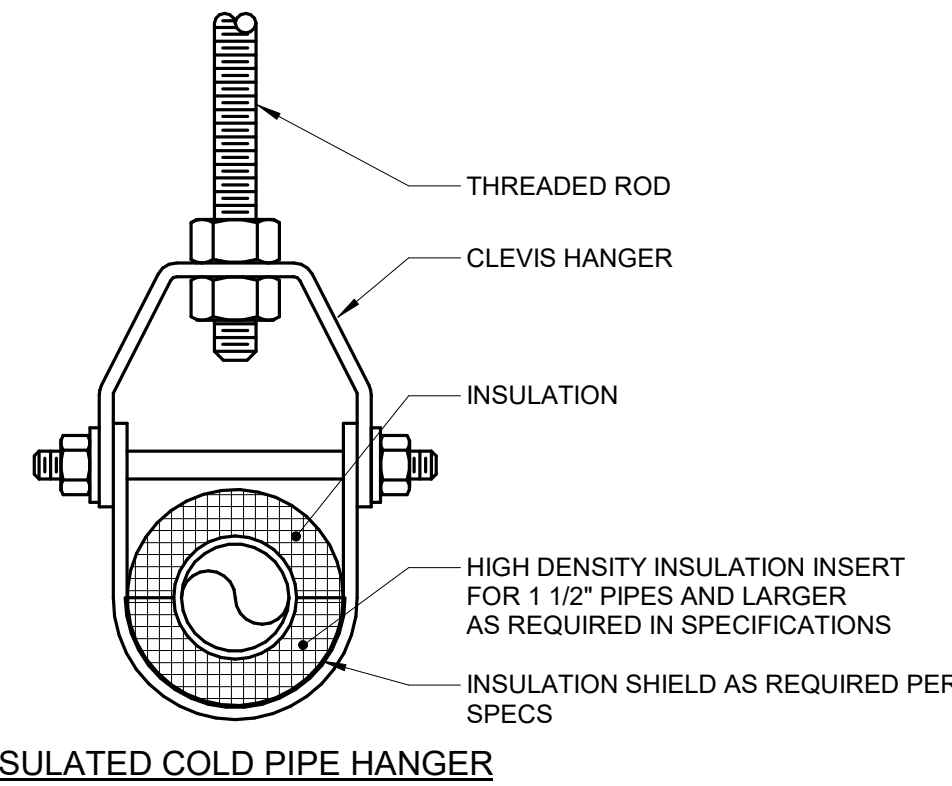
M400



1 ROOF SUPPORT - ROOF TOP UNIT CURB
NO SCALE

NOTES:

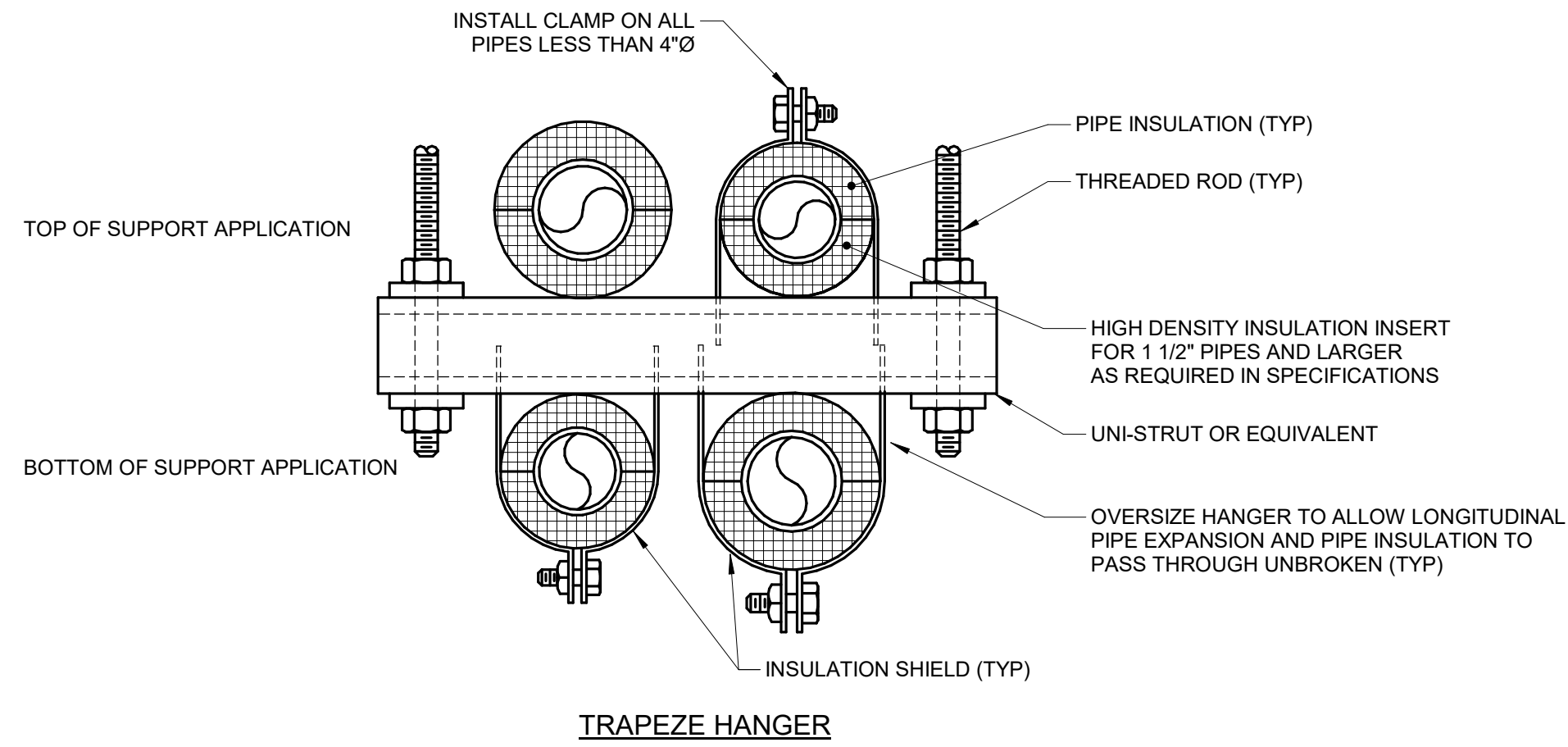
1. ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.
2. ROOF CURB SHALL BE INSTALLED PER ROOF CURB MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE EXTENDED CURB AS REQUIRED TO MAINTAIN 12" CLEARANCE ABOVE INSULATION.



2 PIPE - HANGERS AND SUPPORTS
NO SCALE

NOTES:

1. REFER TO SPECIFICATION SECTION 23 05 29-HVAC & SECTION 23 07 19-HVAC.



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SHEET TITLE
MECHANICAL DETAILS

SCALE

Scale: **1/2" = 1'-0"**

SHEET NUMBER

M401

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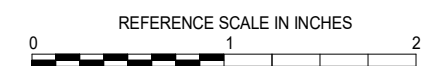
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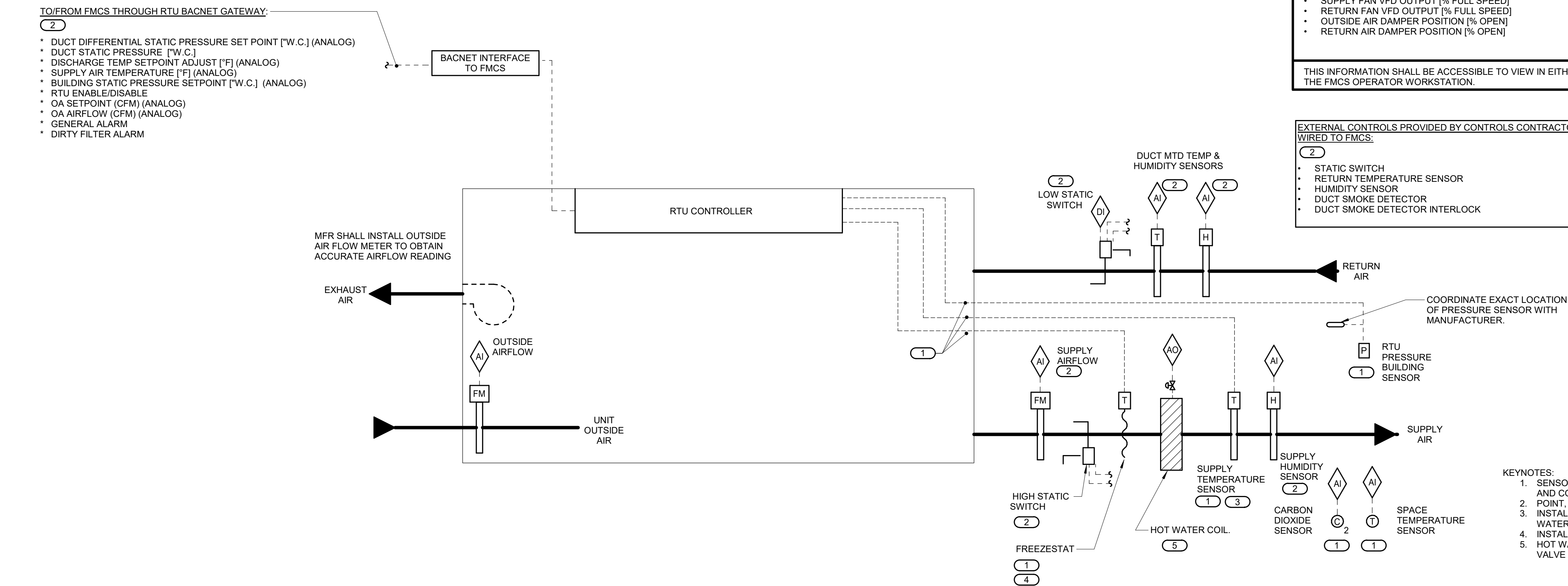
SHEET TITLE
MECHANICAL CONTROL DIAGRAMS

SCALE

Scale: **1/2" = 1'-0"**

SHEET NUMBER

M500



CONTROLS SEQUENCE PROVIDED BY CONTRACTOR IN FIELD:

SEQUENCE OF OPERATION:
THE TCC SHALL EXTEND THE FMCS NETWORK TO THE RTU BACNET INTERFACE PER THE PROTOCOL SPECIFIED IN SECTION 23 09 00.

WHEN RTU IS INDEXED TO RUN, THE FOLLOWING SHALL OCCUR:

- SUPPLY FAN SHALL BE ENABLED TO RUN.

BUILDING OCCUPANCY SCHEDULING:
ENABLE RTU TO RUN BASED ON THE FOLLOWING OCCUPANCY SCHEDULE:

Mode	Day	Start Time (ADJ.)	End Time (ADJ.)
MORNING START-UP MODE:	MONDAY THROUGH FRIDAY	5:00AM-6:00AM	7:00AM-8:00AM
	SATURDAY THROUGH SUNDAY	7:00AM-8:00AM	
OCCUPIED MODE:	MONDAY THROUGH FRIDAY	6:00AM-9:00PM	8:00AM-6:00PM
	SATURDAY THROUGH SUNDAY	8:00AM-6:00PM	
UNOCCUPIED MODE:	MONDAY THROUGH FRIDAY	9:00PM-5:00AM	6:00PM-7:00AM
	SATURDAY THROUGH SUNDAY	6:00PM-7:00AM	

CONTRACTOR SHALL FIELD INSTALL THE FOLLOWING MANUFACTURER PROVIDED EXTERNAL SENSORS AND WIRE BACK TO RTU CONTROLLER:

- BUILDING PRESSURE SENSOR.
- SUPPLY AIR TEMPERATURE IN SUPPLY DUCT.

ALARMS, INTERLOCKS AND SAFETIES:
THE FOLLOWING SAFETIES SHALL BE INSTALLED AND WIRED IN THE FIELD.

- HIGH STATIC SWITCH (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- LOW STATIC SWITCH (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)
- FIRE ALARM RELAY (WIRED TO UNIT ENABLE/DISABLE TO TURN FANS OFF)

CONTROLS PROVIDED BY PACKED EQUIPMENT MANUFACTURER:

PACKAGE ROOFTOP UNIT SYSTEM DESCRIPTION:
REFER TO SECTION 23 74 11 FOR A DESCRIPTION OF THE RTU AND THE CONTROLS PROVIDED BY THE RTU MANUFACTURER.

SUPPLY FAN CONTROL:
RTU CONTROLLER SHALL MODULATE SIGNAL TO SUPPLY FAN VFD AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AND MINIMUM AIRFLOW AS DETERMINED BY OCCUPANCY AND CO2 SETPOINT.

EXHAUST/RELIEF DAMPER CONTROL:
RTU CONTROLLER SHALL MONITOR BUILDING PRESSURE SIGNAL. MODULATE EXHAUST/RELIEF DAMPER AS REQUIRED TO MAINTAIN +0.05" (ADJ.) W.C..

VENTILATION CONTROL:
WHENEVER THE UNIT IS IN OCCUPIED MODE THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN MINIMUM OUTSIDE AIR CFM BASED ON QUANTITY OF AIR FROM UNIT MOUNTED AIRFLOW MEASURING STATION.

DEMAND CONTROL VENTILATION:
WHENEVER THE AIR HANDLING UNIT IS IN OCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL BE FULLY OPEN. THE RETURN AIR AND RELIEF AIR DAMPER SHALL MODULATE IN OPPOSITION TO MAINTAIN THE LARGER OF THE MINIMUM OUTSIDE AIR FLOW RATE AS MEASURED AT THE OUTSIDE AIRFLOW MEASURING STATION, AND THE FLOW RATE NEEDED TO SATISFY THE ECONOMIZER DISCHARGE AIR SEQUENCE. THE MINIMUM OUTSIDE AIR FLOW RATE SHALL BE RESET AS FOLLOWS:

- DURING OCCUPIED MODE, THE MINIMUM OA FLOW RATE SHALL NOT FALL BELOW THE AMOUNT LISTED IN THE AHU SCHEDULE.
- IF ANY DCV ZONE HAS A CO2 CONCENTRATION ABOVE ITS SCHEDULED SETPOINT AND THAT ZONE'S TAB MINIMUM FLOW IS RESET TO ITS MAXIMUM FLOW RATE, THE MINIMUM OA SETPOINT SHALL INCREASE UNTIL THAT ZONE CO2 SETPOINT IS SATISFIED OR UNTIL THE DESIGN OCCUPIED OUTSIDE AIR FLOW ON THE AHU SCHEDULE IS REACHED.
- IF THE CRITICAL ZONE'S CO2 CONCENTRATION DROPS BELOW THE SCHEDULED CO2 SETPOINT, THE MINIMUM OUTSIDE AIR RATE SHALL BE RESET LOWER UNTIL THE CO2 CONCENTRATION REACHES ITS SETPOINT OR UNTIL THE AHU OUTSIDE AIR FLOW RATE REACHES THE MINIMUM OA RATE IN AHU SCHEDULE.

SUPPLY AIR TEMPERATURE CONTROL:
DISCHARGE AIR TEMPERATURE SHALL BE MODULATED TO MAINTAIN SPACE SETPOINT (76 SUMMER, 68 WINTER (ADJ.)). WHENEVER THE SUPPLY AIR TEMPERATURE IS ABOVE SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:

- MODULATE HOT WATER CONTROL VALVE.
- CLOSE HOT WATER CONTROL VALVE.
- MODULATE DX HEATING COIL.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL.
- THE COMPRESSORS SHALL BE ENABLED AND MFR SHALL MODULATE COMPRESSOR CAPACITY AS REQUIRED TO MAINTAIN SET POINT.

WHENEVER THE DISCHARGE AIR TEMPERATURE IS BELOW SETPOINT, THE FOLLOWING SHALL OCCUR IN SEQUENCE:

- IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 5°F (ADJ.) BELOW SETPOINT, MFR SHALL MODULATE COMPRESSORS OFF.
- MODULATE OA DAMPER AS REQUIRED UNTIL SET POINT IS REACHED.
- IF SET POINT CANNOT BE MAINTAINED BY OA DAMPER CONTROL, MODULATE DX HEATING COIL AND HOT WATER CONTROL VALVE AS REQUIRED TO MAINTAIN SET POINT.

SEND AN ALARM TO THE CONTROLLER INTERFACE (FMCS) FOR THE FOLLOWING:

- SUPPLY FAN FAULT (AIRFLOW, CURRENT OR VFD)
- EXHAUST FAN FAULT (AIRFLOW, CURRENT OR VFD)
- DIRTY FILTERS (WHEN FILTER PRESSURE DROP EXCEEDS 0.6" W.C. (ADJ.))
- IF DISCHARGE AIR TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT AS MEASURED BY TEMPERATURE SENSOR DOWNSTREAM OF HEATING COIL.

WHENEVER RTU IS SHUTDOWN THE RTU CONTROLLER SHALL COMMAND THE FOLLOWING TO OCCUR:

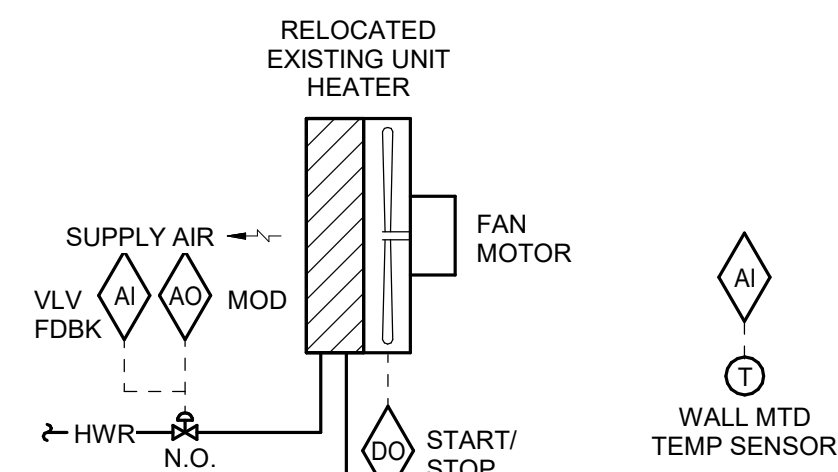
- SUPPLY FAN AND EXHAUST FAN SHALL STOP.
- OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL FULLY CLOSE. THE RETURN AIR DAMPER SHALL FULLY OPEN.
- HEATING AND COOLING SHALL BE DISABLED.
- OUTSIDE AIR AND RELIEF AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN.

UNOCCUPIED MODE OPERATION:

- OUTSIDE AIR AND RELIEF AIR DAMPER SHALL REMAIN CLOSED. RETURN AIR DAMPER SHALL BE 100% OPEN.

1 PACKAGED ROOFTOP UNIT CONTROL SINGLE-ZONE VAV WITH DCV - RTU-1, RTU-2, RTU-3

NO SCALE



SEQUENCE OF OPERATION:

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 40°F (ADJ.), TEMPERATURE SENSOR SHALL MODULATE THE CONTROL VALVE AND CYCLE THE UNIT FAN TOGETHER TO MAINTAIN A SPACE TEMPERATURE OF 68°F (ADJ.).

WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 40°F (ADJ.), TEMPERATURE SENSOR SHALL MODULATE THE CONTROL VALVE TO MAINTAIN A SPACE TEMPERATURE OF 68°F (ADJ.) AND THE UNIT FAN SHALL RUN CONTINUOUSLY.

IN LOCATIONS WITH MULTIPLE UNIT HEATERS, STAGE THE UNIT HEATERS ON/OFF BY SETTING INDIVIDUAL TEMPERATURE SENSORS 2°F APART.

ALARMS, INTERLOCKS & SAFETIES:
SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF SPACE TEMPERATURE FALLS 10°F (ADJ.) BELOW SETPOINT.

2 UNIT HEATER CONTROL - HYDRONIC

NO SCALE

PACKAGED ROOFTOP UNIT SCHEDULE - AIR COOLED HEAT PUMP

NOTES:
1. UNIT DOES NOT HAVE SEPERATE EXHAUST FAN.
2. TOTAL OPERATING WEIGHT INCLUDES UNIT, CURB, ACCESSORIES AND UNIT MOUNTED POWER EXHAUST. DUCT MOUNTED ACCESSORIES AND EQUIPMENT ARE NOT INCLUDED. CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES REQUIRED DUE TO ROOFTOP UNIT HEAVIER THAN THE BASIS OF DESIGN AT NO ADDITIONAL COST.
3. PROVIDE SHAFT GROUNDING IF REQUIRED IN THE MOTOR SPECIFICATION 23 05 13.
4. LAT LISTED IS AT LEAVING SIDE OF COIL.
5. REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
6. STAGES: DIG = DIGITAL SCROLLS, VFD = INVERTER, # = NUMBER OF COMPRESSOR STAGES.
7. PROVIDED WITH FIELD POWERED CONVENIENCE OUTLET.
8. PROVIDED WITH HOT WATER COIL SHIPPED LOOSE, INSTALLED IN DUCTWORK DOWNSTREAM OF UNIT, REFER TO COIL SCHEDULE.
9. PROVIDED WITH DISCHARGE AIR TEMPERATURE SENSOR, SHIPPED LOOSE, TO BE FIELD INSTALLED IN DUCTWORK DOWNSTREAM OF HOT WATER COIL.

TAG NAME	AREA SERVED	NOMINAL TONS	MINIMUM OUTSIDE AIR (CFM)	SUPPLY FAN (NOTE 3)						UNIT ELECTRICAL DATA										COOLING COIL - DX								HEATING COIL - DX				DISCHARGE DIRECTION				
				NO. OF FANS	CFM TOTAL	EXT S.P. IN W.C.	R.P.M	BHP EACH	MHP EACH	NO. OF POWER CONNECTIONS	VOLTAGE	PHASES	FLA	INCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE B)	SCCR	NO. OF AUXILIARY CONNECTIONS	EAT DB °F	EAT WB °F	LAT DB °F (NOTE 4)	LAT WB °F (NOTE 4)	SENSIBLE MBH	TOTAL MBH	AMB TEMP °F	STAGES (NOTE 6)	EAT DB °F	LAT DB °F (NOTE 4)		TOTAL MBH	AMB TEMP °F	SEER	FILTER TYPE
RTU-1	RM 442	3	400	1	1400	1.0	2003	0.6	4	1	460	3	10 A	13 A	15 A	MFR	NF	MFR	ECM	5,000 A	1	80.0	66.4	58.2	58.1	33	36.4	95	INVERTER	65	82	25.7	30	15.3	MERV 13	DOWN
RTU-2	RM 451	3	400	1	1200	1.0	2003	0.3	4	1	460	3	10 A	13 A	15 A	MFR	NF	MFR	ECM	5,000 A	1	80.0	66.4	57.7	57.6	30	35.6	95	INVERTER	65	84.6	25.7	30	15.3	MERV 13	DOWN
RTU-3	RM 452.1	3	400	1	1400	1.0	2003	0.6	4	1	460	3	10 A	13 A	15 A	MFR	NF	MFR	ECM	5,000 A	1	80.0	66.4	58.2	58.1	33	36.4	95	INVERTER	65	82	25.7	30	15.3	MERV 13	DOWN

PACKAGED ROOFTOP UNIT SCHEDULE - AIR COOLED HEAT PUMP - CONT.

TAG NAME	CONTROL TYPE (NOTE 5)	CURB TYPE (NOTE 6)	MAX DIMENSIONS			WEIGHT (NOTE 2)			MANUFACTURER	MODEL	NOTES
			LENGTH	WIDTH	HEIGHT	UNIT WEIGHT	CURB WEIGHT	(TOTAL) OPERATING			
RTU-1	MFR	MFR	67	87	40.8	1248	282	1530	DAIKIN APPLIED	DPS-003	
RTU-2	MFR	MFR	67	87	40.8	1248	282	1530	DAIKIN APPLIED	DPS-003	
RTU-3	MFR	MFR	67	87	40.8	1248	282	1530	DAIKIN APPLIED	DPS-003	

SCHEDULE GENERAL NOTES:

A. DISCONNECT AND CONTROLLER STARTER FURNISHED AND INSTALLED BY:
MFR = MANUFACTURER
EC = ELECTRICAL CONTRACTOR.
MC = FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
MFR/EC = FURNISHED LOOSE BY MANUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR....
B. DISCONNECT TYPE:
F = FUSED
NF = NON-FUSED
C. CONTROLLER STARTER TYPE:
FV = FULL VOLTAGE
WYE = WYE-DELTA
SS = SOLID STATE (SOFT START)
MS = MANUAL STARTER
VFD = VARIABLE FREQUENCY DRIVE
VFDB = VARIABLE FREQUENCY DRIVE WITH BYPASS
D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BI OR BIA FANS FOR FC IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.
E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.
F. MUST BE WITHIN +/- 10% OF SCHEDULED RPM.
G. CURB TYPE:
MFR = STANDARD CURB BY MANUFACTURER
GC = BY GENERAL CONTRACTOR
SAC = SOUND ATTENUATOR CURB

COIL SCHEDULE - WATER

NOTES:
1. COIL PROVIDED BY MFR OF ROOFTOP UNIT WITH CONTROL VALVES. COIL AND VALVES TO BE SHIPPED LOOSE FOR FIELD INSTALL.
2. THREE WAY CONTROL VALVE TO BE CONTROLLED BY PACKAGED ROOFTOP CONTROLS, WITH DISCHARGE AIR SENSOR SHIPPED LOOSE AND INSTALLED DOWNSTREAM OF COIL. REFER TO RTU SCHEDULE AND CONTROL DIAGRAMS.

TAG NAME	AREA SERVED	CFM	EAT		LAT		TOTAL MBH	A.P.D. IN. W.C.	EWT °F	LWT °F	GPM	W.P.D. FT. HEAD	MAX. DIMENSIONS			WEIGHT OPERATING	MANUFACTURER	NOTES
			DB °F	WB °F	DB °F	WB °F							LENGTH	WIDTH	HEIGHT			
HWC-1	RM 442	1400	50.0	40.0	95.0	65.4	68.0	0.18	180	150	4.0	0.5	20	6"	20	100	DAIKIN	NOTES 1 AND 2
HWC-2	RM 451	1200	50.0	40.0	95.0	67.2	58.3	0.14	180	150	3.7	0.4	20	6"	20	100	DAIKIN	NOTES 1 AND 2
HWC-3	RM 452.1	1400	50.0	40.0	95.0	65.4	68.0	0.18	180	150	4.0	0.5	20	6"	24	100	DAIKIN	NOTES 1 AND 2

AIR TERMINAL SCHEDULE

NOTES:
1. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.
2. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
RG-1	INLET + 2	DOUBLE DEFLECTION	1 1/4"	ALUMINUM	WHITE	NO	TITUS	S8F	DIRECT DUCT MOUNTED RETURN GRILLE
RG-2	24x24	PERFORATED FACE	LAY-IN	ALUMINUM	WHITE	NO	TITUS	PAR	DUCTED RETURN
SD-2	24x24	PANEL FACE	LAY-IN	ALUMINUM	WHITE	NO	TITUS	OMNI	FLUSH FACE PANEL
SR-1	INLET + 1 1/2	DOUBLE DEFLECTION	1"	ALUMINUM	WHITE	YES	TITUS	S301FL	DIRECT DUCT MOUNTED SUPPLY REGISTER

PIPE INSULATION SCHEDULE (HVAC)

GENERAL NOTES:
1. REFER TO THE SPECIFICATIONS FOR TYPE DESCRIPTIONS AND JACKETING REQUIREMENTS. VALUES LISTED BELOW ARE BASED ON ASHRAE / IECC REQUIREMENTS.
2. TYPE A INSULATION IS NOT ALLOWED IN NON-AIR CONDITIONED SPACES, SUCH AS MECHANICAL ROOMS, EXTERIOR ATTICS, ETC.
3. TYPE B INSULATION GREATER THAN 1" THICK SHALL BE INSTALLED USING MULTIPLE LAYERS OF 3/4" OR 1" WITH STAGGERED SEAMS.
4. TYPE E IS NOT ALLOWED IN RETURN AIR PLENUMS, UNLESS LISTED AND LABELED AS 25/50 RATED PER ASTM E84/UL723
5. TYPE G 4" SHALL BE INSTALLED IN TWO (2) 2" LAYERS WITH STAGGERED SEAMS.
6. PROVIDE RIGID INSERT AT HANGERS, EITHER PRE-MANUFACTURED COUPLINGS (REFER TO PIPE HANGER AND SUPPORTS SPECIFICATIONS) OR TYPE C, D, OR E INSULATION. SEE SPEC. FOR MORE DETAILS.
7. DIRECT BUIRED PIPING SHALL ONLY USE TYPE C OR TYPE E. REDUCTION IN THICKNESS FOR DIRECT BURED PIPING IS ALLOWED PER ASHRAE / IECC AS APPLICABLE.

PIPE SYSTEM	INSULATION TYPE	INSULATION THICKNESS PER NOMINAL PIPE OR TUBE SIZE					NOTES
		< 1"	1" TO < 1.5"	1.5" TO < 4"	4" TO < 8"	≥ 8"	
23 PIPING - COOLING	A (GlsFbr), B (Elasto), C (CelGla), E (Plyiso), F (Phenol)	0.5"	0.5"	1"	1"	1"	APPLY INSULATION ONLY TO LOW TEMP DRAINS (55 DEG AND LOWER IE: COOLING COIL CONDENSATE, ICE MACHINE DRAINS, ETC.)
DPP - DRAIN - PIPING							
23 PIPING - HEATING							
HWV - HEATING WATER RETURN	A (GlsFbr), C (CelGla), E (Plyiso), F (Phenol)	1.5"	1.5"	2"	2"	2"	
HWS - HEATING WATER SUPPLY	A (GlsFbr), C (CelGla), E (Plyiso), F (Phenol)	1.5"	1.5"	2"	2"	2"	
23 PIPING - OTHER							
MISC RELIEF VENTS, INTAKES, AND DISCHARGES	A (GlsFbr), B (Elasto), E (Plyiso), F (Phenol)	0.5"	0.5"	1"	1"	1"	APPLY INSULATION ONLY WITHIN 10' OF EXTERIOR PENETRATION ON COMPRESSOR INTAKES, VACUUM DISCHARGES, VENT/RELIEF LINES, ETC.



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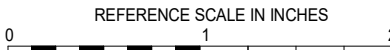
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REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Construction Documents	
Issue	November 03, 2022
Date	
Job Number	21002885.11
Drawn	ZACMAN
Checked	BRAPIE
Approved	BRAPIE

SHEET TITLE
MECHANICAL SCHEDULES

SCALE

Scale:

SHEET NUMBER

M600

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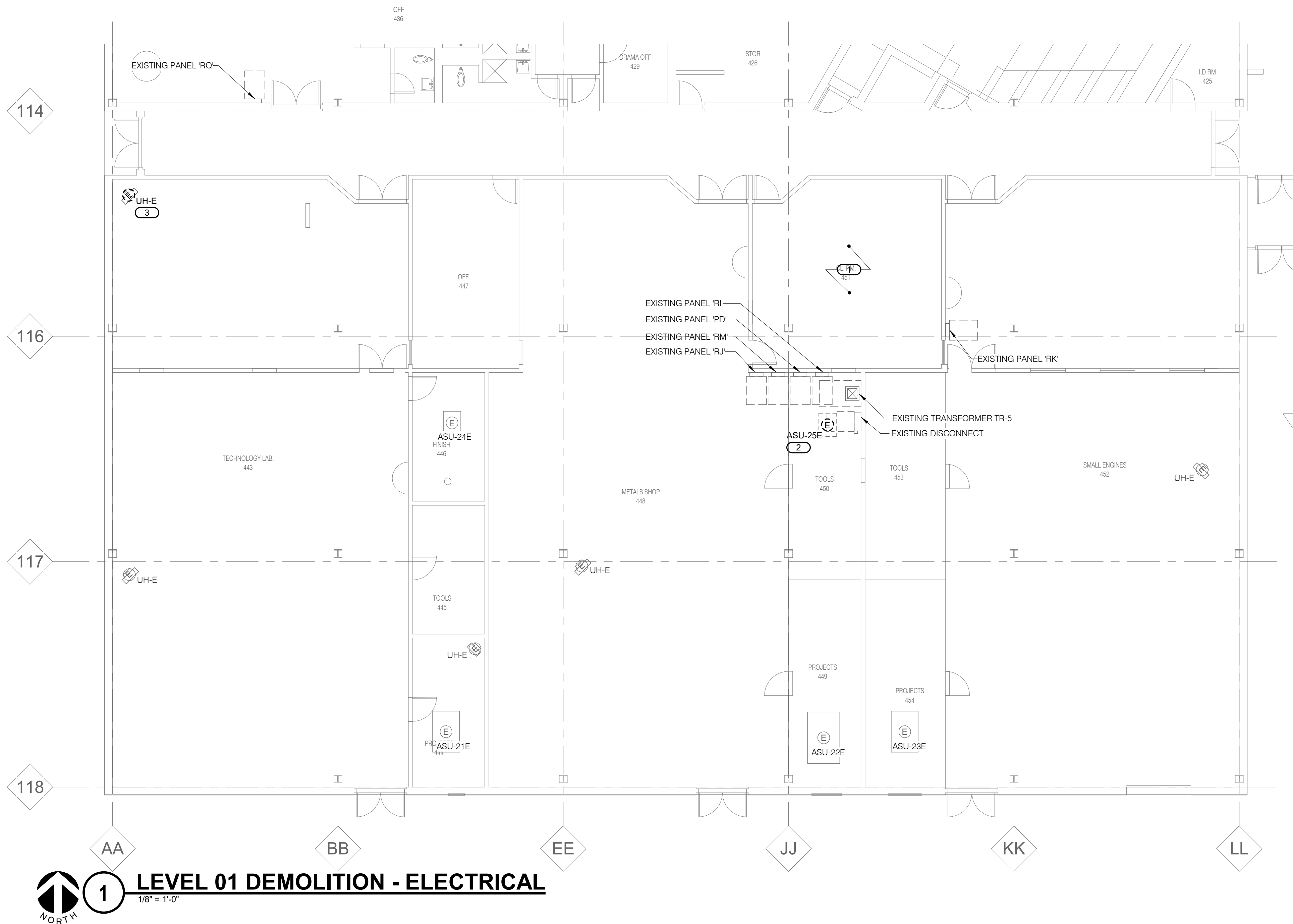
Illinois Design Firm Registration #194007637-0014

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REF. SCALE IN INCHES

0123

PROJECT #21002885.11



- KEYNOTES:** (E)
1. DISCONNECT AND RETAIN EXISTING CEILING MOUNTED ELECTRICAL DEVICES (LIGHT FIXTURES, SMOKE DETECTORS, OCCUPANCY SENSORS, SPEAKERS, ETC.) AS NEEDED FOR CEILING REMOVAL DUE TO NEW DUCT AND PIPING WORK. REINSTALL AND RECONNECT EXISTING DEVICES AFTER COMPLETION OF NEW CEILING WORK. FIELD COORDINATE THE FINAL SCOPE REQUIREMENTS WITH THE CONTRACTOR.
 2. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT, STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.
 3. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT AND ASSOCIATED DISCONNECT TO REUSE AT NEW LOCATION PER NEW PLANS. RETAIN EXISTING BRANCH CIRCUIT AND PREPARE IT TO SERVE THE REUSED EQUIPMENT AT NEW LOCATION.



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REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.11
Drawn	RAJMAK
Checked	MATSNY
Approved	GAUSHA

SHEET TITLE

**LEVEL 01
DEMOLITION
ELECTRICAL**

SCALE

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

SHEET NUMBER

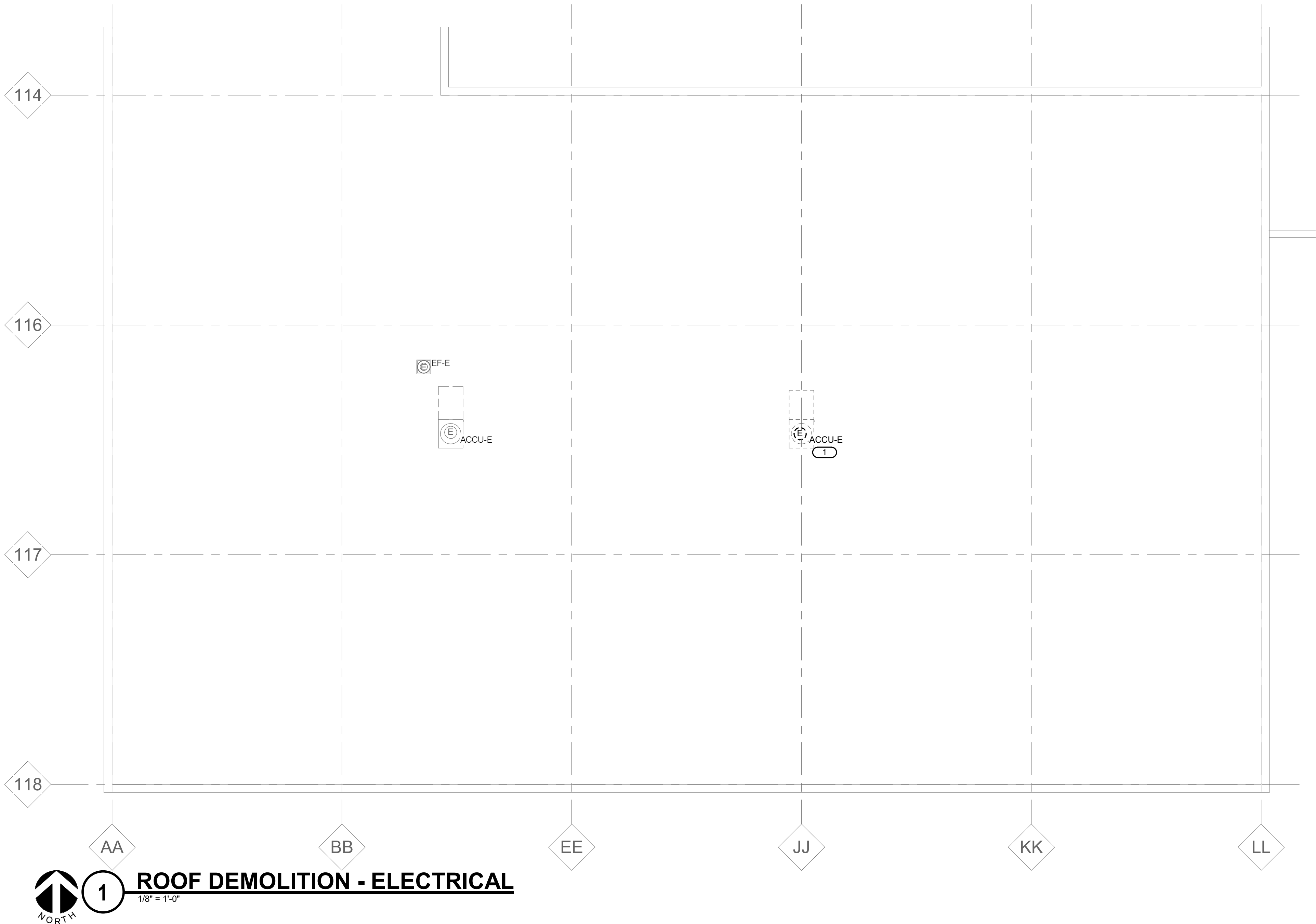
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KEYNOTES: (E)

1. DISCONNECT POWER FROM EXISTING MECHANICAL UNIT. REMOVE ALL ASSOCIATED ELECTRICAL INFRASTRUCTURE (DISCONNECT, STARTER, BACKBOXES ETC.). REMOVE ASSOCIATED WIRING & CONDUIT BACK TO SERVING PANEL AND MARK THE BREAKER AS "SPARE". MAINTAIN CONTINUITY OF POWER TO ALL EXISTING REMAIN DEVICES CONNECTED TO THIS CIRCUIT. FIELD VERIFY THE REQUIREMENTS.

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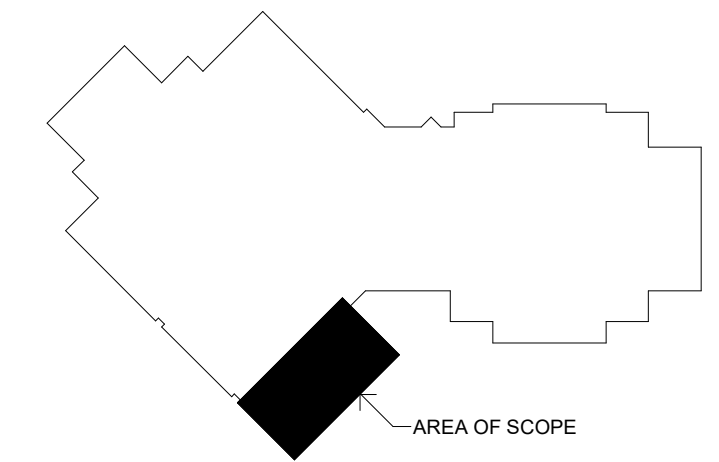
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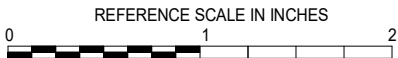
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SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.11
Drawn	RAJMAK
Checked	MATSNY
Approved	GAUSHA

SHEET TITLE

**ROOF
DEMOLITION
ELECTRICAL**

SCALE

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

SHEET NUMBER

E102

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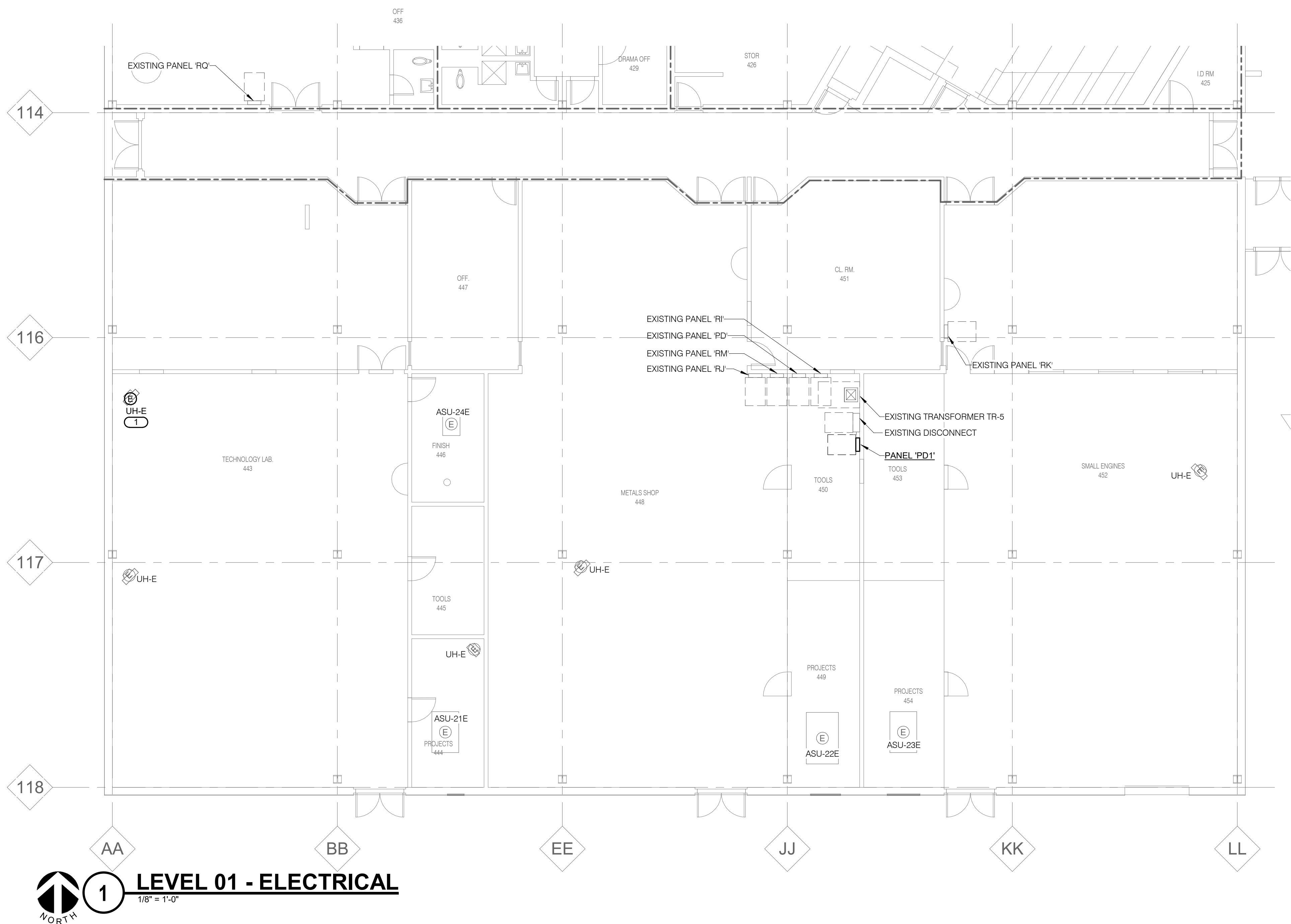
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KEYNOTES: (E)
1. REUSE EXISTING DISCONNECT AT RELOCATED MECHANICAL UNIT. EXTEND EXISTING MECHANICAL UNIT CIRCUIT RETAINED DURING DEMOLITION WORK IN THIS AREA. PROVIDE NEW WIRING AND CONDUIT (MATCH WITH EXISTING WIRE SIZE AND TYPE) AS REQUIRED.

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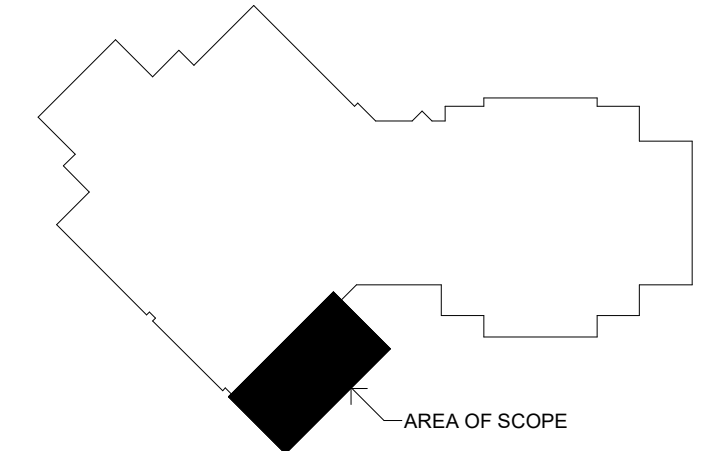
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KEY PLAN



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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No. Date Revision / Issue

SHEET INFORMATION

Issue **Construction Documents**
Date **November 03, 2022**
Job Number **21002885.11**
Drawn **RAJMAK**
Checked **MATSNY**
Approved **GAUSHA**

SHEET TITLE

LEVEL 01 - ELECTRICAL

SCALE

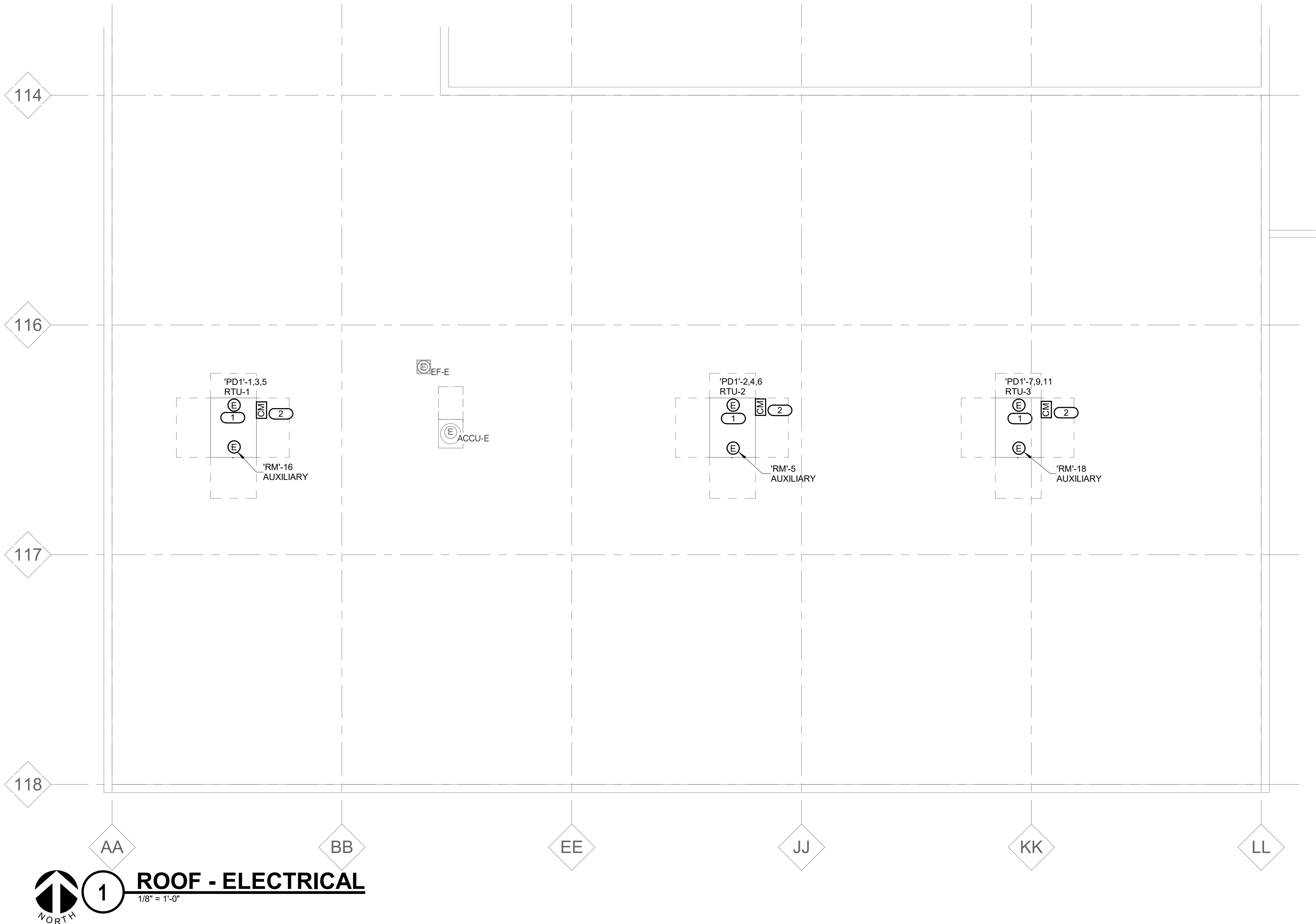
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SHEET NUMBER

E201

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0 1 2 3
PROJECT #21002885.11

21002885.11 11/20/2022 11:29:47 AM ESSER HVAC Improvements – Jefferson High School



KEYNOTES: (#)

1. DISCONNECT AND/OR CONTROLLER/STARTER PROVIDED BY OTHERS AND WIRED BY E.C.
2. COORDINATE CONNECTIONS TO MOTOR CONTROLLER FOR UNIT SHUTDOWN. MOUNT ADDRESSABLE RELAY INSIDE THE UNIT AND WITHIN 3'-0" OF CONTROLLER. CONNECT TO NEAREST AVAILABLE EXISTING FIRE ALARM CONTROL CIRCUIT WIRING. PROVIDE NEW WIRING AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER.

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ESSER HVAC
Improvements –
Jefferson High
School

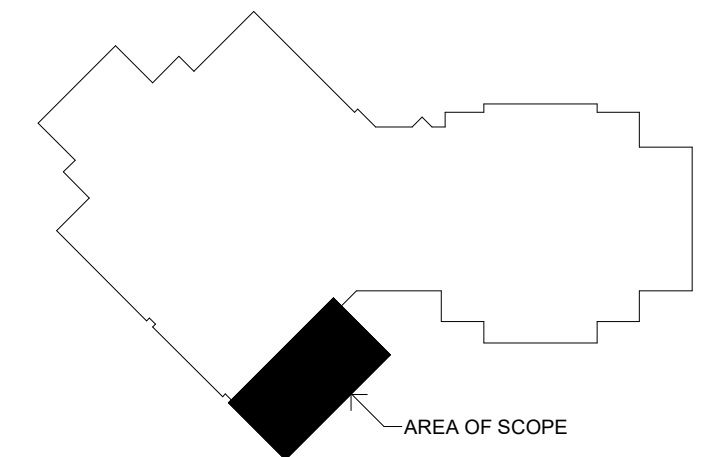
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SCHOOLS # 205**

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CONSULTANT

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KEY PLAN



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REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue
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SHEET INFORMATION

Issue	Construction Documents
Date	November 03, 2022
Job Number	21002885.11
Drawn	RAJMAK
Checked	MATSNY
Approved	GAUSHA

SHEET TITLE
**ROOF -
ELECTRICAL**

SCALE

Scale: **1/8" = 1'-0"**

SHEET NUMBER

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PROJECT #21002885.11

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