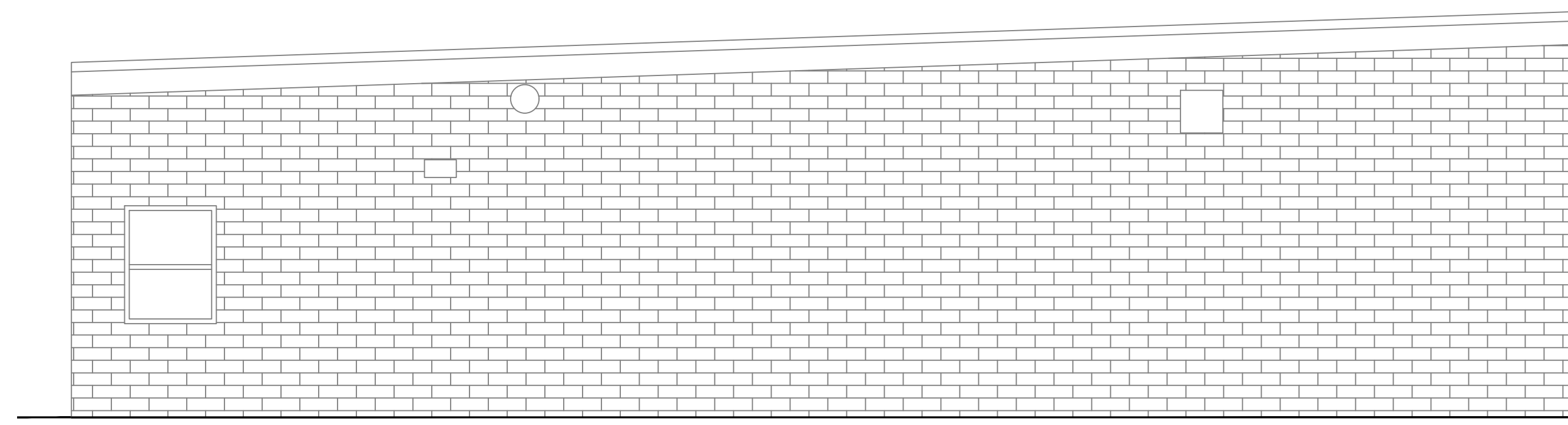


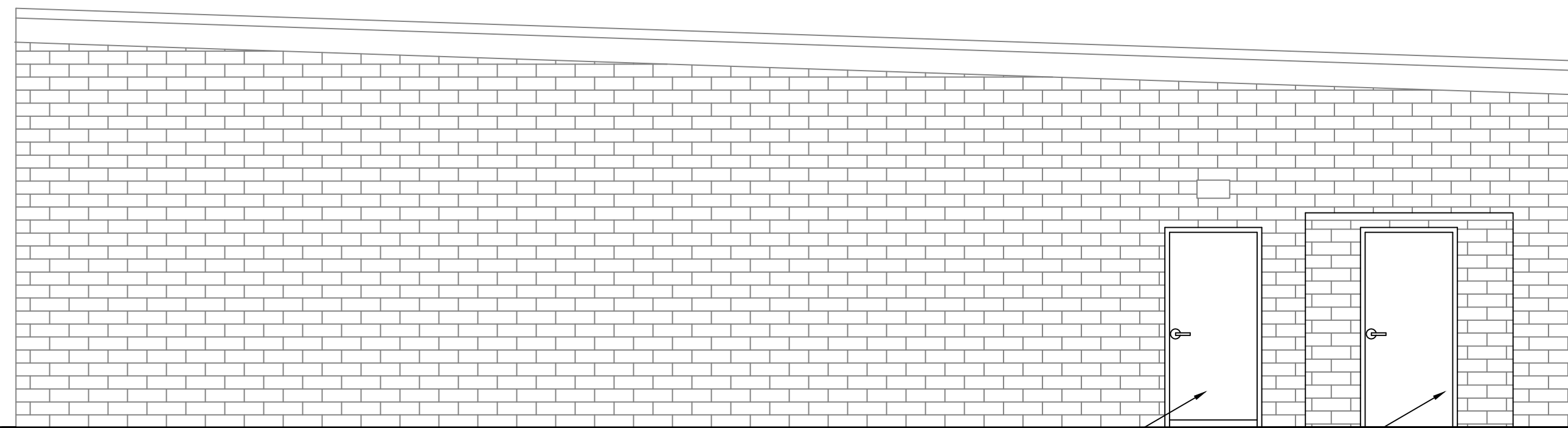
REMOVE EXIST. A/C UNIT & FILL-IN MASONRY OPENING TO MATCH EXIST.

REMOVE EXIST. DOOR, FRAME CONC. SILL & STEPS & FILL-IN MASONRY OPENING TO MATCH

EXISTING EAST ELEVATION
1/4" = 1'-0"



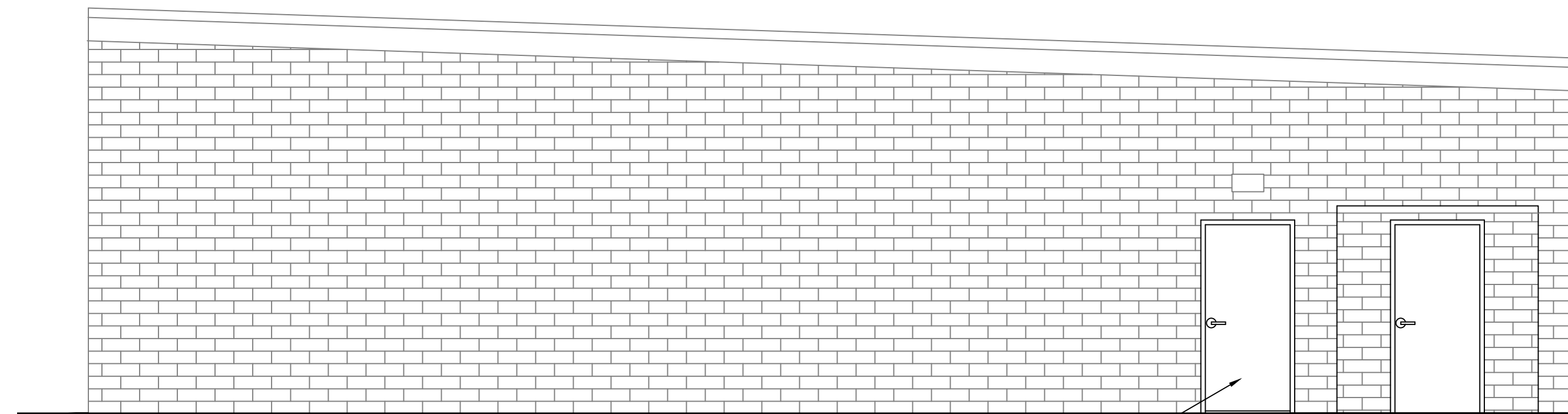
PROPOSED EAST ELEVATION
1/4" = 1'-0"



REMOVE EXIST. DOOR, FRAME & CONC. SILL & PREP/REPAIR OPENING FOR NEW METAL DOOR & FRAME

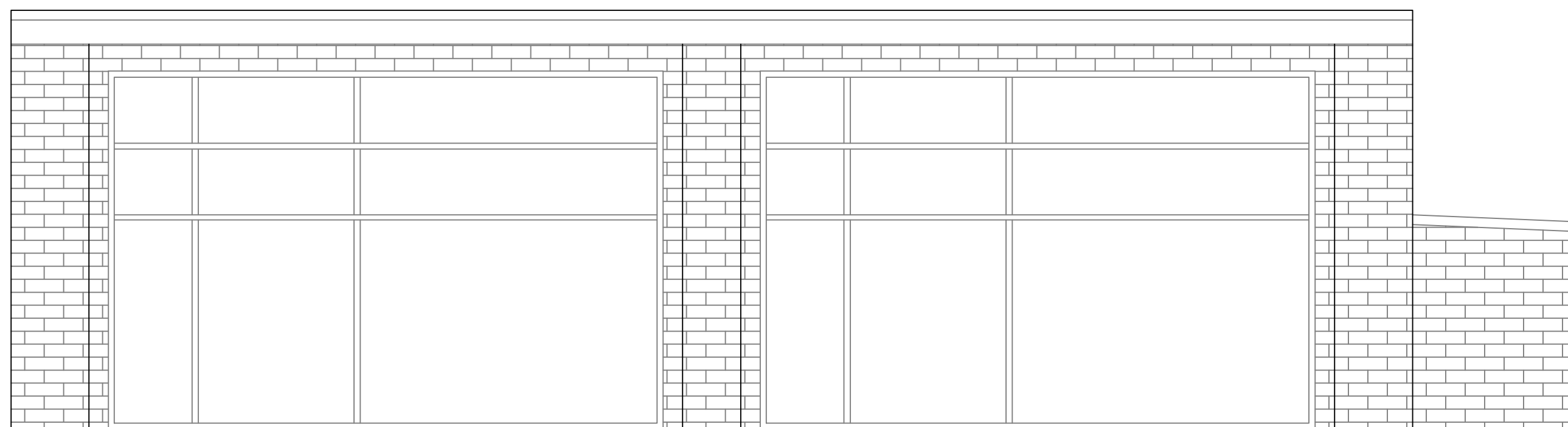
EXIST. DOOR TO REMAIN

EXISTING WEST ELEVATION
1/4" = 1'-0"

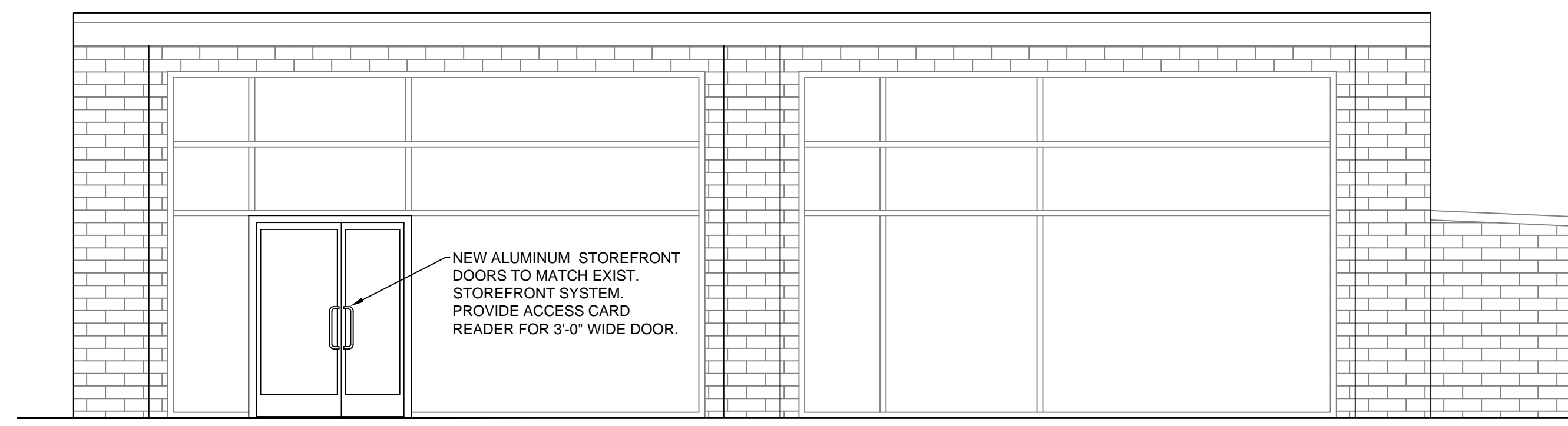


NEW METAL DOOR & FRAME

PROPOSED WEST ELEVATION
1/4" = 1'-0"

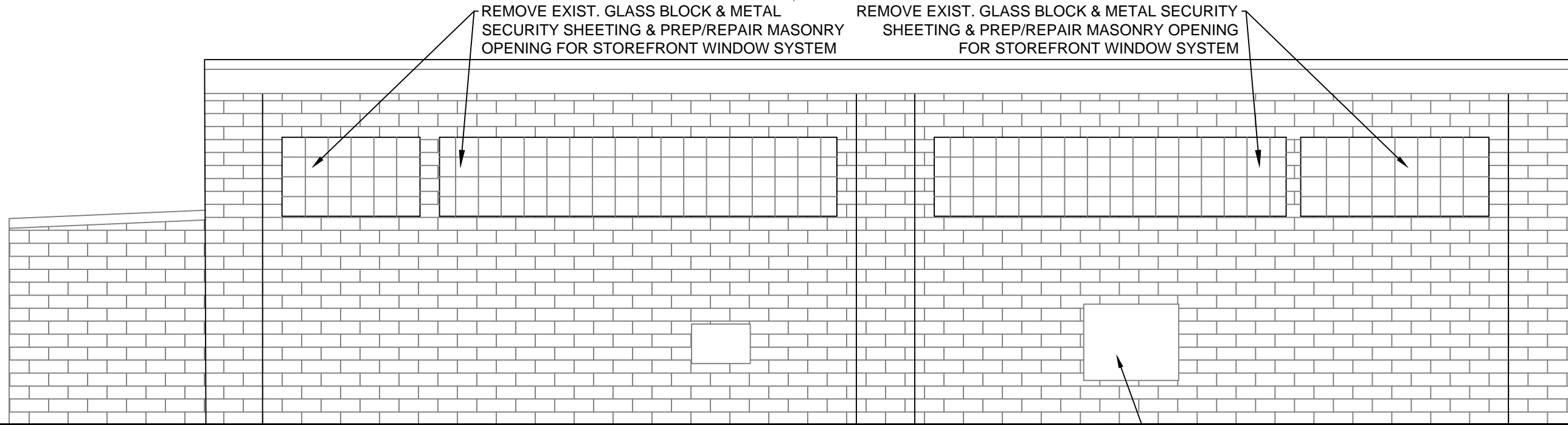


EXISTING NORTH ELEVATION
1/4" = 1'-0"



NEW ALUMINUM STOREFRONT DOORS TO MATCH EXIST. STOREFRONT SYSTEM. PROVIDE ACCESS CARD READER FOR 3'-0" WIDE DOOR.

PROPOSED NORTH ELEVATION
1/4" = 1'-0"

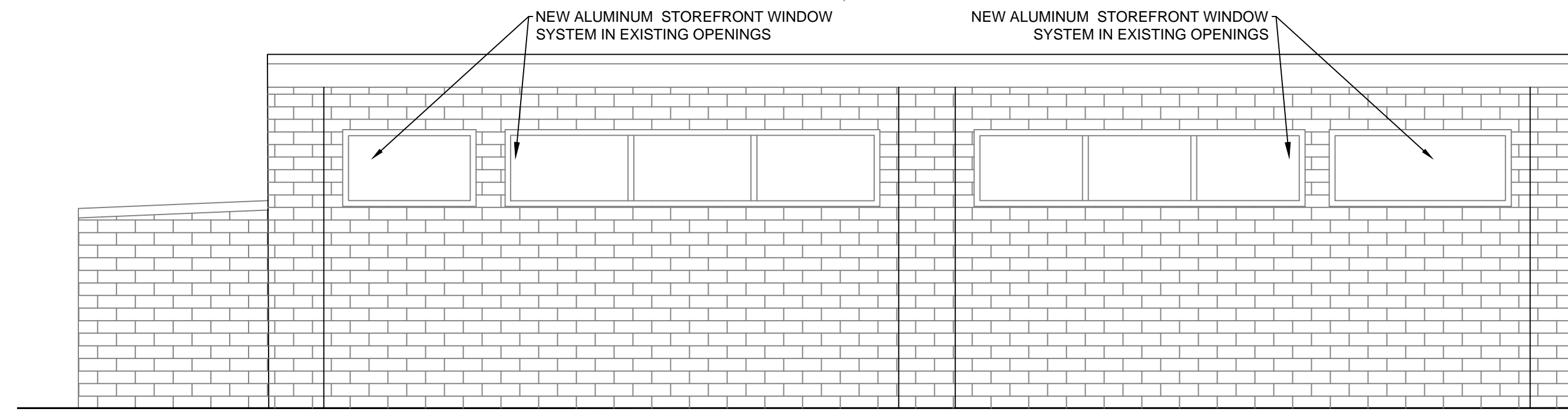


REMOVE EXIST. GLASS BLOCK & METAL SECURITY SHEETING & PREP/REPAIR MASONRY OPENING FOR STOREFRONT WINDOW SYSTEM

REMOVE EXIST. GLASS BLOCK & METAL SECURITY SHEETING & PREP/REPAIR MASONRY OPENING FOR STOREFRONT WINDOW SYSTEM

REMOVE EXIST. WALL MOUNTED SPLIT HVAC UNITS, INTERIOR & EXTERIOR AND FILL-IN MASONRY OPENING TO MATCH EXIST.

EXISTING SOUTH ELEVATION
1/4" = 1'-0"



NEW ALUMINUM STOREFRONT WINDOW SYSTEM IN EXISTING OPENINGS

NEW ALUMINUM STOREFRONT WINDOW SYSTEM IN EXISTING OPENINGS

PROPOSED SOUTH ELEVATION
1/4" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

DESIGNED BY: JLA
DRAWN BY: JLA
CHECKED BY: BJG
DATE: 10-16-2020

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING & CONSTRUCTION MANAGEMENT
Washington County Administrative Annex, Building 40
15000 State Road 40
P.O. Box 2460
Phone: 240-313-2460 Fax: 240-313-2401

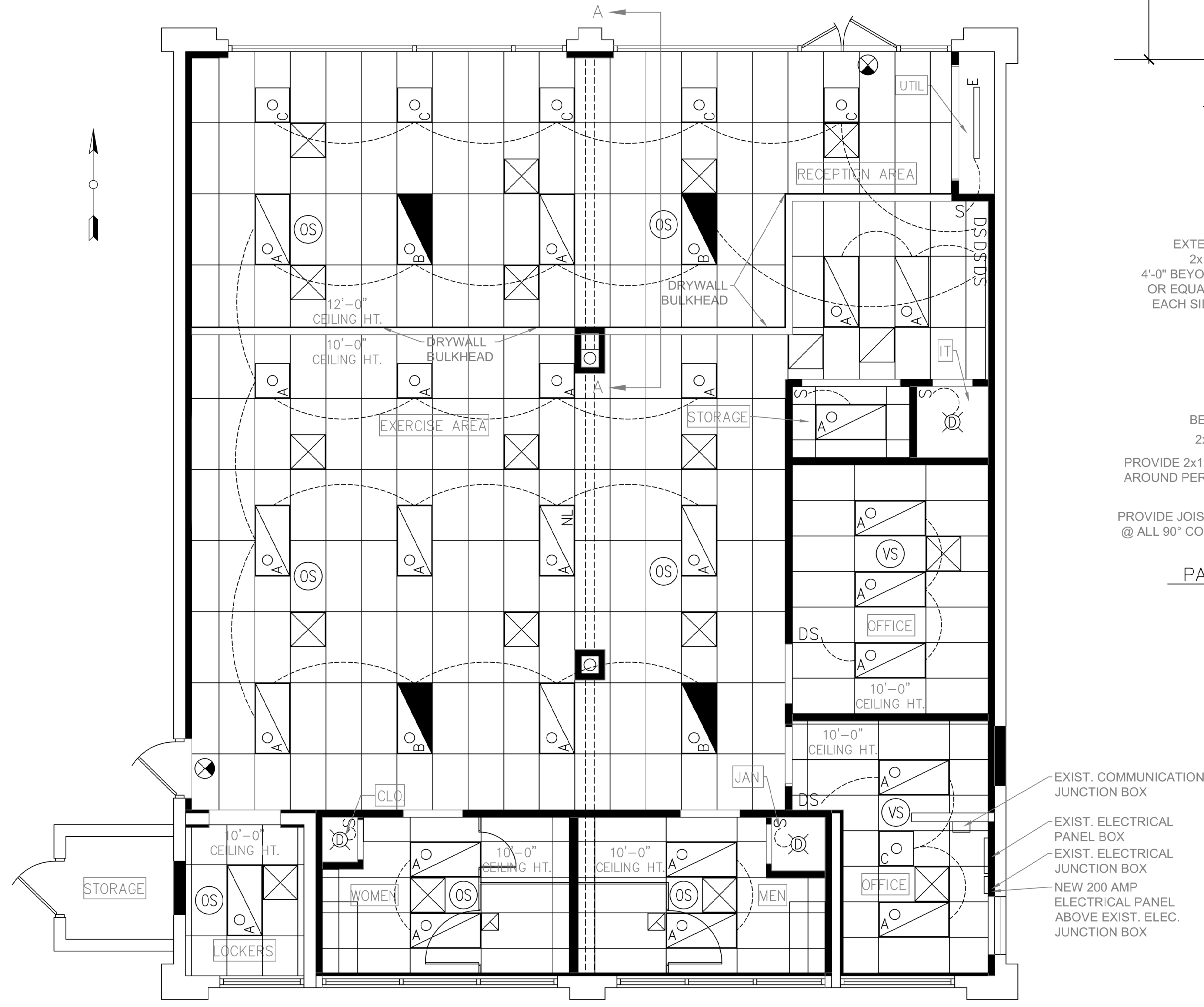
WASHINGTON COUNTY SENIOR ACTIVITIES CENTER & COMMISSION ON AGING OFFICES
BUILDING ELEVATIONS
SENIOR ACTIVITIES CENTER

SCALE
1/4"=1'-0"

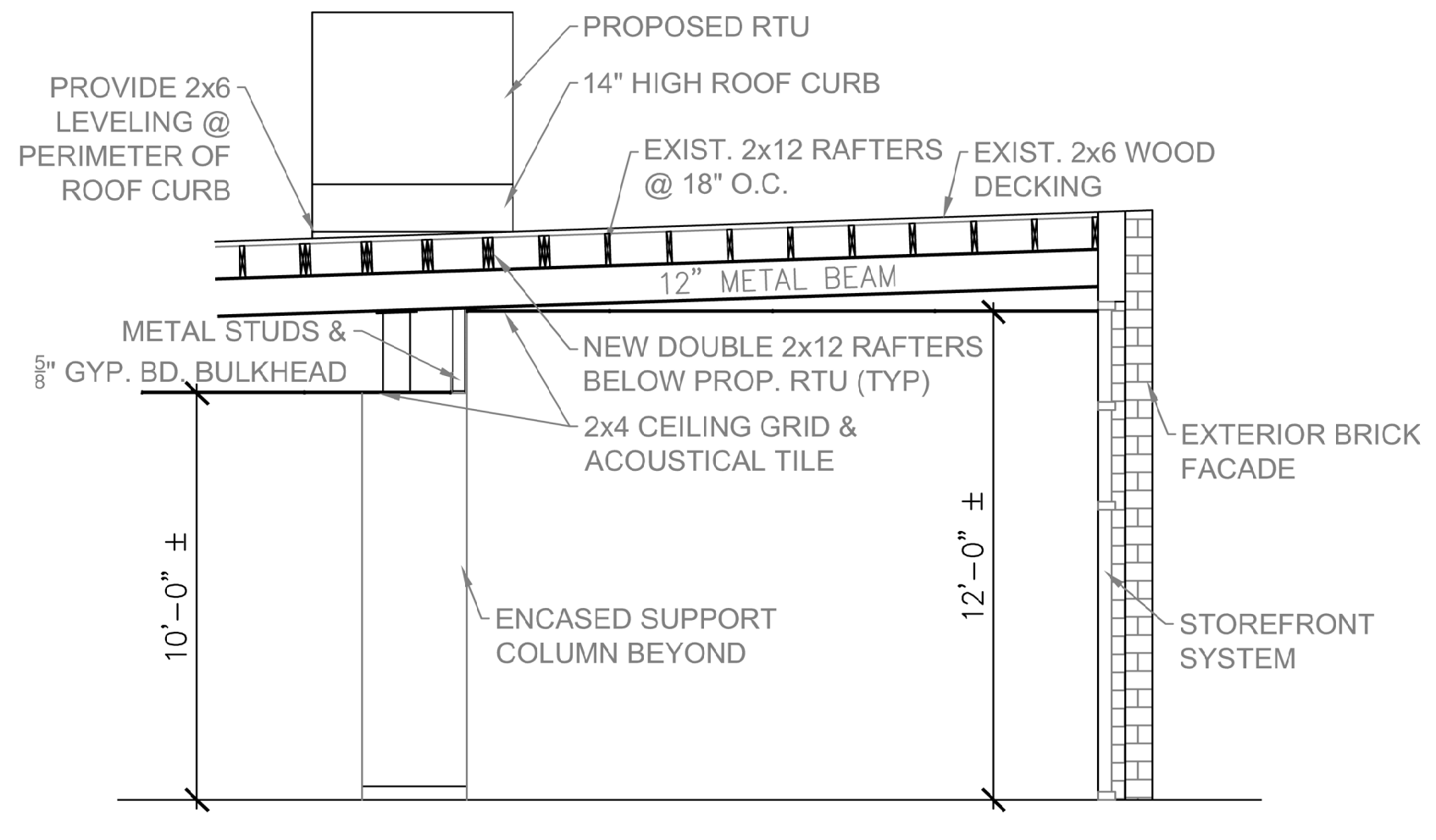
SHEET NO.
1 OF 8

PROJECT NO.

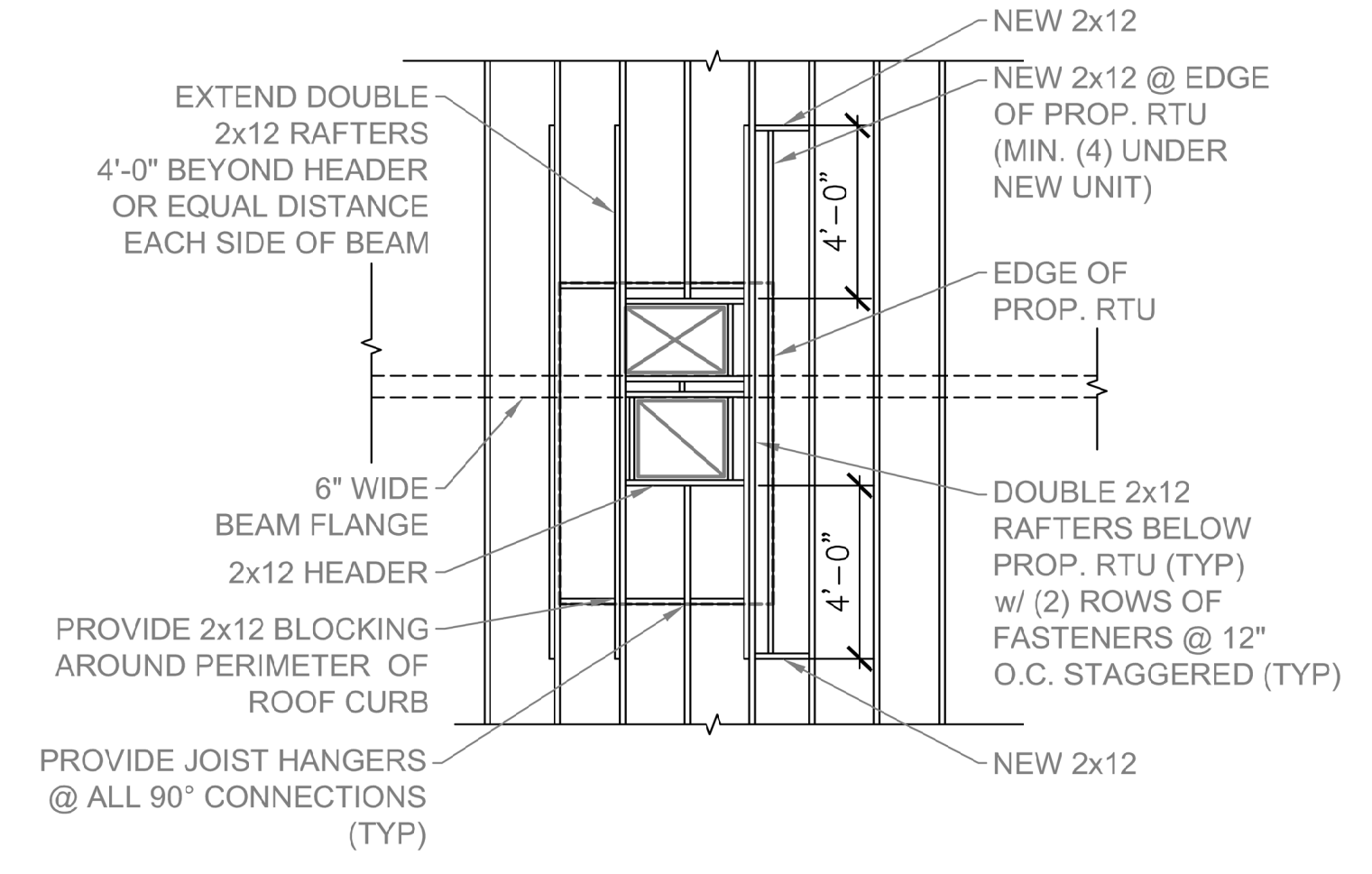
SYMBOL LEGEND	
	FIRE EXTINGUISHER
	HANDICAP
	DOOR NUMBER
	WINDOW NUMBER
	AUDIBLE VISUAL ALARM
	SMOKE DETECTOR
	EXIT LIGHT - LED
	CEILING MOUNTED LIGHT FIXTURE - LED
	2X2 LIGHT FIXTURE - LED
	2X2 LIGHT FIXTURE W/24-HR NIGHT LIGHT - LED
	2X2 LIGHT FIXTURE W/EMERGENCY LIGHT - LED
	2X4 LIGHT FIXTURE - LED
	2X4 LIGHT FIXTURE W/24-HR NIGHT LIGHT - LED
	2X4 LIGHT FIXTURE W/EMERGENCY LIGHT - LED
	LED STRIP LIGHT
	EXHAUST FAN - CONTINUOUS RUN
	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR
	CEILING MOUNTED ULTRASONIC VACANCY SENSOR
	LIGHTING SWITCH
	DIMMER LIGHTING SWITCH
	3-WAY LIGHTING SWITCH
	OCCUPANCY SENSOR LIGHTING SWITCH
	3 5/8" METAL STUDS @16" O.C. W/ 5/8" GYP. BD.
	PANIC BUTTON
	MASTER SWITCH - APHONE
	APHONE
	CARD READER
	TELEPHONE
	DATA PORT
	THERMOSTAT
	RETURN AIR GRILLE
	EXISTING AIR SUPPLY GRILLE
	EXHAUST FAN GRILLE



REFLECTED CEILING PLAN
1/4" = 1'-0"



PARTIAL CROSS SECTION A-A
1/4" = 1'-0"



PARTIAL ROOFTOP UNIT FRAMING DETAIL
1/4" = 1'-0"

NOTE: EXISTING JOISTS ARE OVERLAPPED AT BEAM. PROVIDE 2x12 FILLER AS REQ'D FOR FULL LENGTH OF OVERLAP.

- EXIST. COMMUNICATION JUNCTION BOX
- EXIST. ELECTRICAL PANEL BOX
- EXIST. ELECTRICAL JUNCTION BOX
- NEW 200 AMP ELECTRICAL PANEL ABOVE EXIST. ELEC. JUNCTION BOX

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. _____ EXPIRATION DATE: _____

NO.	REVISION DESCRIPTION	BY	DATE
1	RELOCATED BULKHEAD AND MODIFIED CEILING GRID & LIGHTS	JLA	04-28-2021

DESIGNED BY: JLA
DRAWN BY: JLA
CHECKED BY: BJG
DATE: 10-16-2020

WASHINGTON COUNTY, MARYLAND
DIVISION OF ENGINEERING & CONSTRUCTION MANAGEMENT
Washington County Administrative Annex, Building
80 W. Baltimore St., Hagerstown, MD 21740
Phone: 240-313-2460 Fax: 240-313-2401

WASHINGTON COUNTY SENIOR ACTIVITIES CENTER & COMMISSION ON AGING OFFICES
REFLECTED CEILING PLAN
SENIOR ACTIVITIES CENTER

SCALE
1/4"=1'-0"

SHEET NO.
5 OF 8

PROJECT NO.

HVAC NOTES

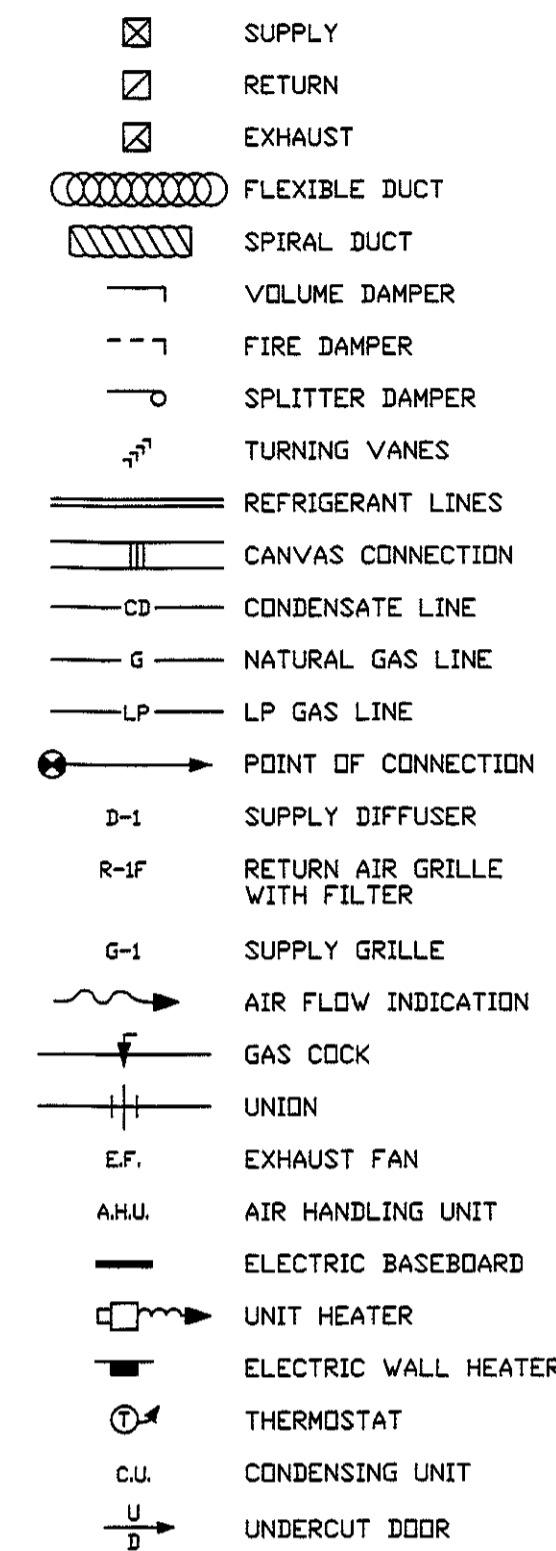
- CONTRACTOR SHALL INSPECT THE EXISTING DUCTWORK FOR DEFECTS AND REPORT TO THE ARCHITECT/ENGINEER AND THE OWNER ANY DEFICIENCIES PRIOR TO PERFORMING ANY WORK. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS PRIOR TO INSTALLING THE NEW WORK.
- CONTRACTOR SHALL BALANCE THE AIR DISTRIBUTION SYSTEM TO AIR QUANTITIES INDICATED ON THE DRAWINGS AND SUBMIT (3) COPIES OF THE BALANCE REPORT TO THE ENGINEER FOR APPROVAL.
- CONTRACTOR SHALL SPRAY PAINT INSIDE OF DUCT BLACK, BEHIND ALL GRILLES AND REGISTERS.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL, FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE STANDARDS AND SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" EXCEPT THAT DUCTWORK SHALL BE A MINIMUM THICKNESS OF 24 GAUGE.
- FLEXIBLE DUCTWORK SHALL BE RATED CLASS I, WHEN TESTED UNDER THE REQUIREMENTS OF UL 181. FLEXIBLE DUCT SHALL NOT EXCEED (6) FEET IN LENGTH. FLEX DUCT SHALL BE EQUAL TO CERTAINEED "CERTAFLEX" GAS FLEXIBLE HOSE PRE-INSULATED WITH 1-1/2 INCH THICK FIBERGLASS INSULATION WITH POLYETHYLENE JACKET. HOSE SHALL BE POLYESTER WITH EMBEDDED HELICAL STEEL WIRE.
- HVAC UNIT FLEXIBLE DUCT CONNECTIONS SHALL BE A MINIMUM OF 6 INCHES LONG AND HELD IN PLACE WITH HEAVY METAL BANDS, SECURELY ATTACHED TO PREVENT ANY LEAKAGE AT THE CONNECTION POINTS. FLEXIBLE CONNECTIONS SHALL BE FABRICATED FROM APPROVED FLAME PROOF FABRIC CONFORMING TO NFPA 90A. ASBESTOS CLOTH IS NOT ACCEPTABLE.
- ALL PIPING SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS IN A NEAT WORKMANSHIP-LIKE MANNER AND BE SUPPORTED AS REQUIRED BY CODES. PIPING SHALL BE SET UP AND DOWN AND OFFSET AS REQUIRED TO SUIT FIELD CONDITIONS. DIELECTRIC COUPLINGS SHALL BE USED WHERE DISSIMILAR METALS ARE JOINED.
- PIPING HANGERS SHALL BE SPACED SO AS TO PREVENT SAG AND PERMIT PROPER DRAINAGE AND SHALL NOT BE SPACED MORE THAN EITHER FEET APART UNLESS A GREATER SPACE IS DEFINITELY INDICATED ON THE DRAWINGS. A HANGER SHALL BE PLACED WITHIN (1) FOOT OF EACH HORIZONTAL ELBOW.
- ISOLATE AND DRAIN EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF THE NEW WORK.
- HOT WATER AND CHILLED WATER SUPPLY AND RETURN PIPING SHALL BE BLACK STEEL PIPE, SCHEDULE 40 FOR 2-1/2 INCH AND LARGER, SEAMLESS COPPER TYPE "L" FOR 2 INCH AND BELOW.
- REFRIGERANT PIPING OTHER THAN PRECHARGED TUBING MUST BE FURNISHED BY AIR CONDITIONING MANUFACTURER SHALL BE TYPE "ACR" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. PIPING SHALL BE INSTALLED IN ACCORDANCE WITH ARI STANDARDS. USE EASY-FLO OR SAFETY SILVER BRAZING ALLOY TO MAKE JOINTS. RUN ALL HORIZONTAL LINES DEAD LEVEL TO ENSURE PROPER GAS RETURN TO COMPRESSOR.
- CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE SEAMLESS TYPE "L" COPPER WITH 95-5 SOLDER.
- THE INSTALLATION OF ALL INSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMANSHIP-LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED.
- ALL MATERIALS OF INSULATION SHALL BE OF THE TYPE AND QUALITY AS MANUFACTURED BY ARMSTRONG, CERTAINEED, OVENS-CORNING, DUCTMATE OR MANVILLE. ALL MATERIAL AND EQUIPMENT SPECIFIED TO BE INSULATED SHALL BE THOROUGHLY TESTED AND APPROVED PRIOR TO APPLYING THE INSULATION.
- WRAPPED INSULATION ON DUCTWORK SHALL BE PROVIDED TO MEET IECC 2015 REQUIREMENTS.
- ACoustICAL DUCT LINING SHALL BE DUCTMATE POLY ARMOR COMPLYING WITH FIRE CLASSIFICATION REQUIREMENTS OF NFPA 90A AND 90B. ADHERE LINER TO DUCT WITH FIRE RESISTANT ADHESIVE AND WELDED PIN TYPE MECHANICAL FASTENERS AS INDICATED IN SMACNA STANDARDS, OR PER MANUFACTURER'S REQUIREMENTS.
- ACoustICALLY LINED DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. SHEET METAL DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING THICKNESS.
- WRAPPED INSULATION ON ROUND DUCTWORK SHALL MEET IECC REQUIREMENTS. INSULATION SHALL BE GLASS FIBER WITH LAMINATED KRAFT-FOIL VAPOR BARRIER 2PC COMPLYING WITH FIRE CLASSIFICATION REQUIREMENTS OF NFPA 90A AND 90B
- WRAPPED DUCTWORK INSULATION SHALL BE PROVIDED ON ALL.
- HOT WATER AND CHILLED WATER SUPPLY AND RETURN PIPING AND

- FITTINGS BE INSULATED WITH 1 INCH FIBERGLASS PERFORMED INSULATION WITH VAPOR JACKET AND SELFSEALING TAPE EQUAL TO OVENS-CORNING ASJSSL-II.
- REFRIGERATION SUCTION AND HOT, GAS BY-PASS SHALL BE INSULATED WITH 1 INCH THICK ARMSTRONG "ARMAFLEX" OR EQUAL. EXTERIOR INSULATION SHALL BE COATED WITH ULTRAVIOLET RESISTANT MATERIAL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DO NOT INSULATE THE LIQUID LINE.
 - CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 3/4 INCH THICK ARMSTRONG "ARMAFLEX" OR EQUAL. EXTERIOR INSULATION SHALL BE COATED WITH ULTRAVIOLET RESISTANT MATERIAL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - ALL EXTERIOR EXPOSED WATER PIPING SHALL BE INSULATED WITH 2 INCH PERFORMED FIBERGLASS INSULATION WITH VAPOR JACKET AND SELF-SEALING TAPE EQUAL TO OVENS-CORNING ASJSSL-II. COVER INSULATION WITH .016 INCH THICK ALUMINUM JACKET.
 - CONTRACTOR SHALL FURNISH A COMBINATION STARTER SIZED IN ACCORDANCE WITH THE MOTOR RATING OF THE MECHANICAL EQUIPMENT. STARTER SHALL BE SUPPLIED WITH FUSES OR CIRCUIT BREAKERS, CONTROL TRANSFORMER, OVERLOADS, ONE NO. AND ONE N.C. AUXILIARY CONTACT AND H.O.A. SWITCH MOUNTED IN THE COVER. STARTER ENCLOSURE SHALL BE NEMA RATED FOR ITS LOCATION. STARTER SHALL BE INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE ALL AIR TEMPERATURE CONTROLS INCLUDING WIRING, TUBING AND THERMOSTATS (WITH LOCKING COVERS) AND ALL MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS.
 - CONTRACTOR SHALL FURNISH AND INSTALL UL LISTED DUCT SMOKE DETECTORS AS REQUIRED WITH AUXILIARY CONTACTS FOR CONNECTION TO THE FIRE ALARM SYSTEM. DETECTORS SHALL DE-ENERGIZE AIR HANDLING UPON ACTIVATION.
 - VIBRATION ISOLATORS FOR HANGING EQUIPMENT SHALL BE EQUAL TO MASON INDUSTRIES MODEL 30N, COMBINATION SPRING AND DOUBLE DEFLECTION NEOPRENE HANGER, OR DEFLECTION AS RECOMMENDED BY MANUFACTURER.
 - VIBRATION ISOLATORS FOR BASE MOUNTED EQUIPMENT SHALL BE EQUAL TO MASON INDUSTRIES MODEL SLF, DEFLECTION AS RECOMMENDED BY MANUFACTURER.
 - ALL EQUIPMENT AND MATERIAL FURNISHED SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL. ALL EQUIPMENT AND MATERIALS SHALL MEET THE REQUIREMENTS OF ALL CODES AND STANDARDS OF LOCAL AND STATE AGENCIES HAVING JURISDICTION.
 - WHERE A SUBCONTRACTOR PROPOSES TO USE AN ITEM OR EQUIPMENT OTHER THAN THE SPECIFIED OR DETAILED ITEM ON THE DRAWINGS THAT IS APPROVED BY THE ENGINEER AND THAT REQUIRES REDESIGN OF THE STRUCTURE PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL, OR ARCHITECTURAL LAYOUT, THEN SUCH REDESIGN, NEW DRAWINGS, AND DETAILING REQUIRED FOR IT SHALL BE PREPARED BY THE SUBCONTRACTOR WITHOUT EXTRA COMPENSATION.
 - THE SUBMITTAL WHICH HAS BEEN REVIEWED BY THE ENGINEER, WITH OR WITHOUT COMMENTS, DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENTS OF COMPLYING WITH THE CONTRACT DOCUMENTS. ONLY SUBMITTALS WHICH EXPLICITLY REQUEST THE ENGINEER TO REVIEW DEVIATIONS WITH THE CONTRACT DOCUMENTS RELIEVE THE CONTRACTOR FROM THE SPECIFIC ITEM OF COMPLIANCE.
 - THE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE, AND ARE TO SERVE AS GUIDE FOR THE INSTALLATION. THE SHIFTING OF LOCATIONS TO MEET CONDITIONS BEFORE INSTALLATION WILL BE EXPECTED, AND THIS SHALL BE DONE AT NO INCREASED COST.
 - FOR PURPOSES OF CLEARNESS AND LEGIBILITY, MECHANICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND INDICATE ONLY SIZES, CONNECTION POINTS, AND ROUTES. IT IS NOT INTENDED OR IMPLIED THAT ALL OFFSETS, RISES, AND DROPS ARE AS SHOWN.
 - PROVIDE HOLLOW-FORMED CURVED METAL TURNING VANES IN ALL RECTANGULAR ELBOWS.
 - THE CONTRACTOR SHALL BALANCE THE SYSTEM IN ACCORDANCE WITH THE AIR VOLUMES AS SHOWN ON THE DRAWINGS AND MAKE OTHER MINOR ADJUSTMENTS AS DIRECTED.
 - CONTRACTOR SHALL PROVIDE SMOKE DETECTOR WITH RESET AND ONE SET OF DRY CONTACTS FOR ALL HVAC OVER 2000 CFM EACH OR SERVING A COMMON PLENUM EXCEEDING 2000 CFM IN PLENUM.
 - CONTRACTOR SHALL SUBMIT A MINIMUM OF TWO AIR BALANCING CONTRACTORS. THE ENGINEER WILL MAKE THE FINAL SELECTION OF THE AIR BALANCING CONTRACTOR TO BE USED. REFER TO SPECIFICATIONS.

GENERAL NOTES - HVAC

- ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO DEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
- NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
- ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS PER THE OWNER'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE. ALL ITEMS WHICH ARE NOT TO BE STORED ON SITE BY OWNERS SHALL BE REMOVED FROM THE BUILDING IMMEDIATELY.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
- ALL SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK.
- CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
- USE OF THE OWNER'S ELEVATORS AND BUILDING CORRIDORS FOR HANDLING OF THE OWNER AND REMOVED EQUIPMENT AND MATERIALS SHALL BE AT THE DIRECTION OF THE OWNER AND SHALL BE COORDINATED WITH HIS OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
- SUCCESSFULLY PRESSURE TEST ALL REROUTED PIPING SYSTEMS. TEST SHALL BE PERFORMED AT NORMAL SYSTEM OPERATING PRESSURES. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS PROVE TIGHT.
- EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
- PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
- WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.

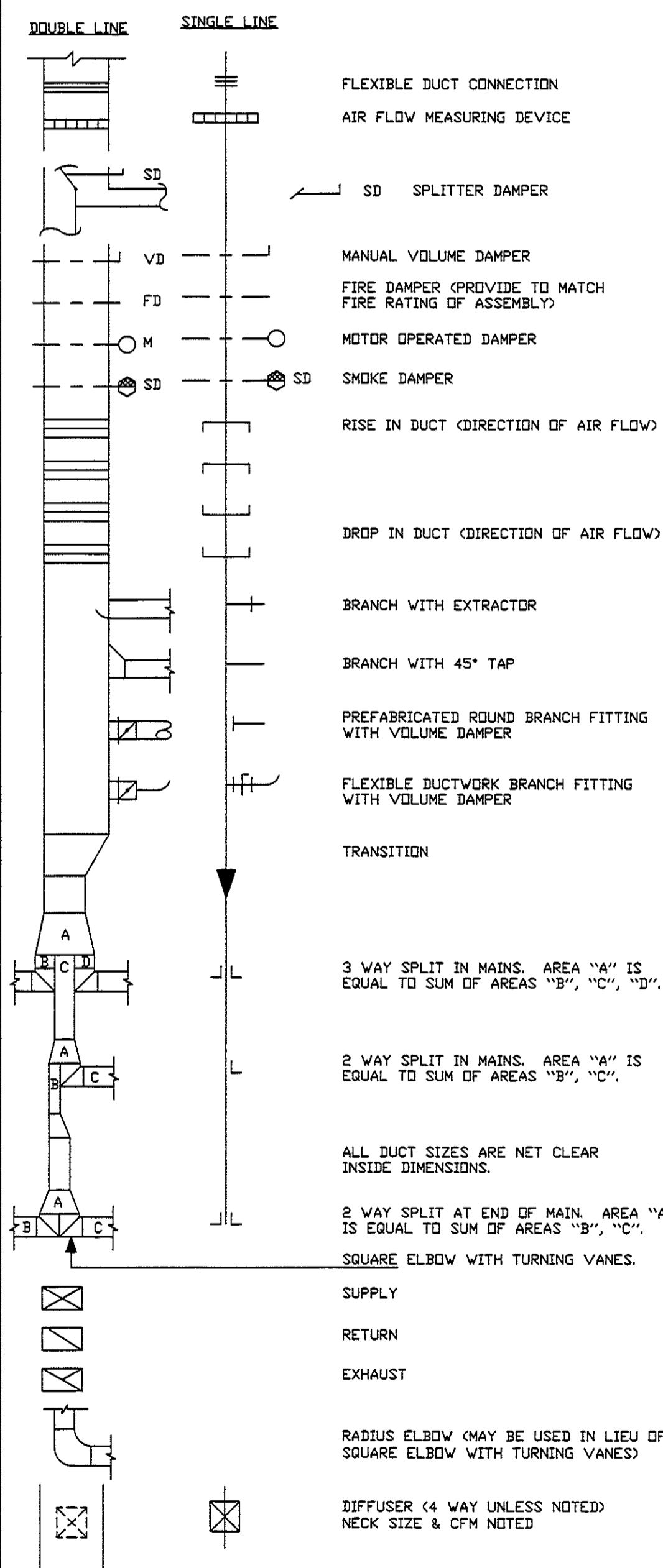
MECHANICAL SYMBOLS



FIRE STOPPING NOTES

ALL PIPES, DUCTS, CONDUITS AND CABLES PASSING THROUGH THE FOLLOWING WALLS/CEILINGS SHALL BE FIRE STOPPED WITH 3M FIRE BARRIER CAULK CP 25. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND TO SATISFY THE FOLLOWING FIRE RATING REQUIREMENTS:

- ELEVATOR MACHINE ROOM - 2 HOUR FIRE RATING FOR WALLS AND CEILING
- MECHANICAL ROOM - 1 HOUR RATING FOR WALLS
- COMMON WALL BETWEEN NEW AND OLD CONSTRUCTION - 1 HOUR FIRE RATING FOR WALLS

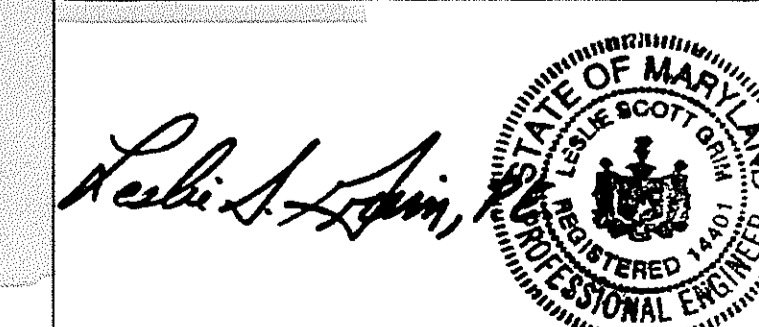


DUCTWORK SYMBOLS

MECHANICAL DRAWING LIST

- M-0.0 MECHANICAL COVER SHEET
- M-0.1 MECHANICAL DETAIL SHEET
- M-1.1 MECHANICAL NEW WORK PLAN
- M-2.0 MECHANICAL SCHEDULES

Digitally signed by Leslie S. Grim Date: 2021.02.27 17:08:41 -05'00'



L.S. GRIM, INC.
Consulting Engineers
19822 JEFFERSON BLVD., HAGERSTOWN, MD 21742-4387
PH: 410-326-7000 FAX: 410-326-7001
PHONE TOLL FREE: 1-888-797-6884 (4748)
DC METRO OFFICE: 2275 RESEARCH BLVD., SUITE 500, ROCKVILLE, MD 20850
©2020 L.S. GRIM, INC. A P.E.

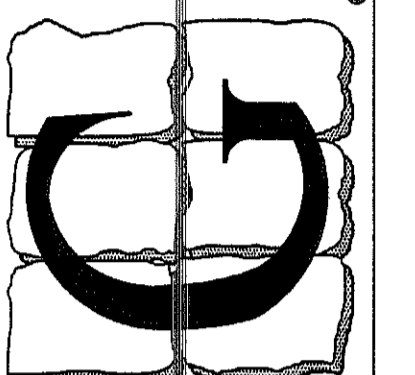
WASHINGTON COUNTY
COMMISSION ON AGING
SENIOR ACTIVITY ANNEX
MECHANICAL COVER SHEET

Professional Certification
I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland.
License Number: 14401
Expiration Date: 4/21/2021
LESLIE SCOTT GRIM, P.E.
DC PROF. ENG. NO. PE070261
DE PROF. ENG. NO. 19953
GA PROF. ENG. NO. PE03282
HI PROF. ENG. NO. PE13943
IA PROF. ENG. NO. 1440
IL PROF. ENG. NO. 033364
IN PROF. ENG. NO. 38457
NY PROF. ENG. NO. 075414
PA PROF. ENG. NO. PE032638E
VA PROF. ENG. NO. 023240
WY PROF. ENG. NO. 10764

REV.	DATE	COMMENT
2/26/21		ISSUED FOR PERMIT

DRAWN BY: LBG

M-0.0
OF 4 SHEETS
DATE: FEB. 26, 2021

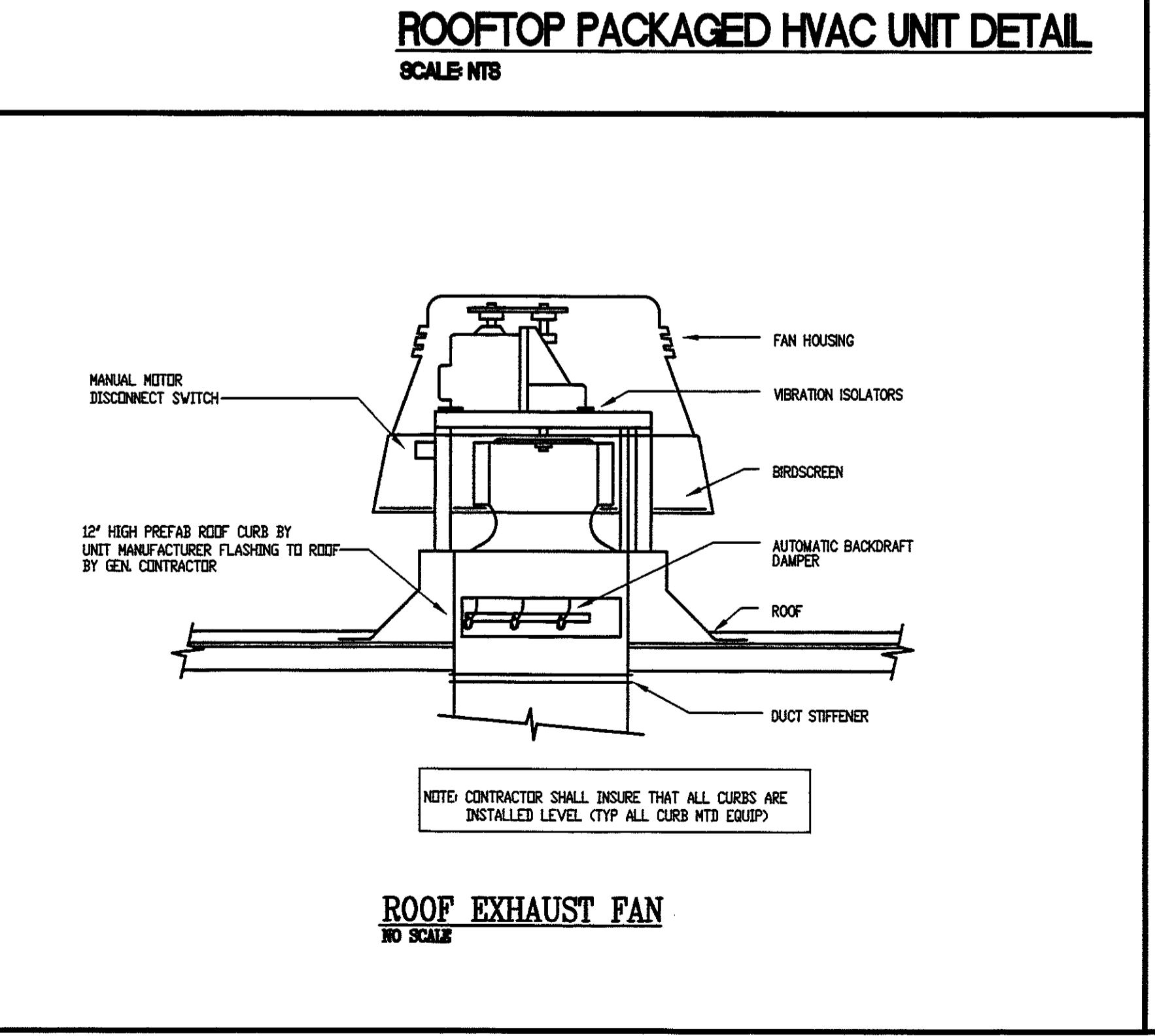
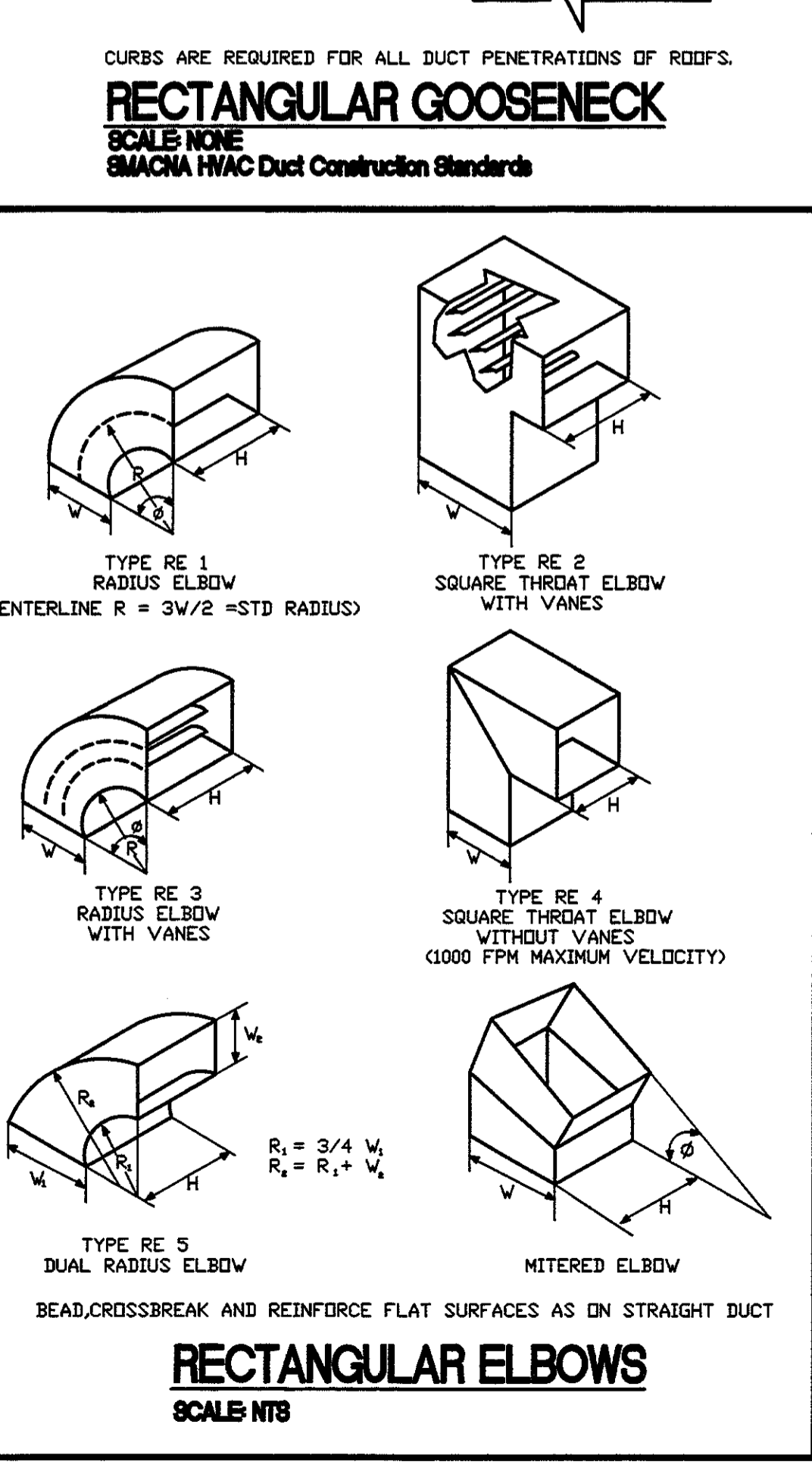
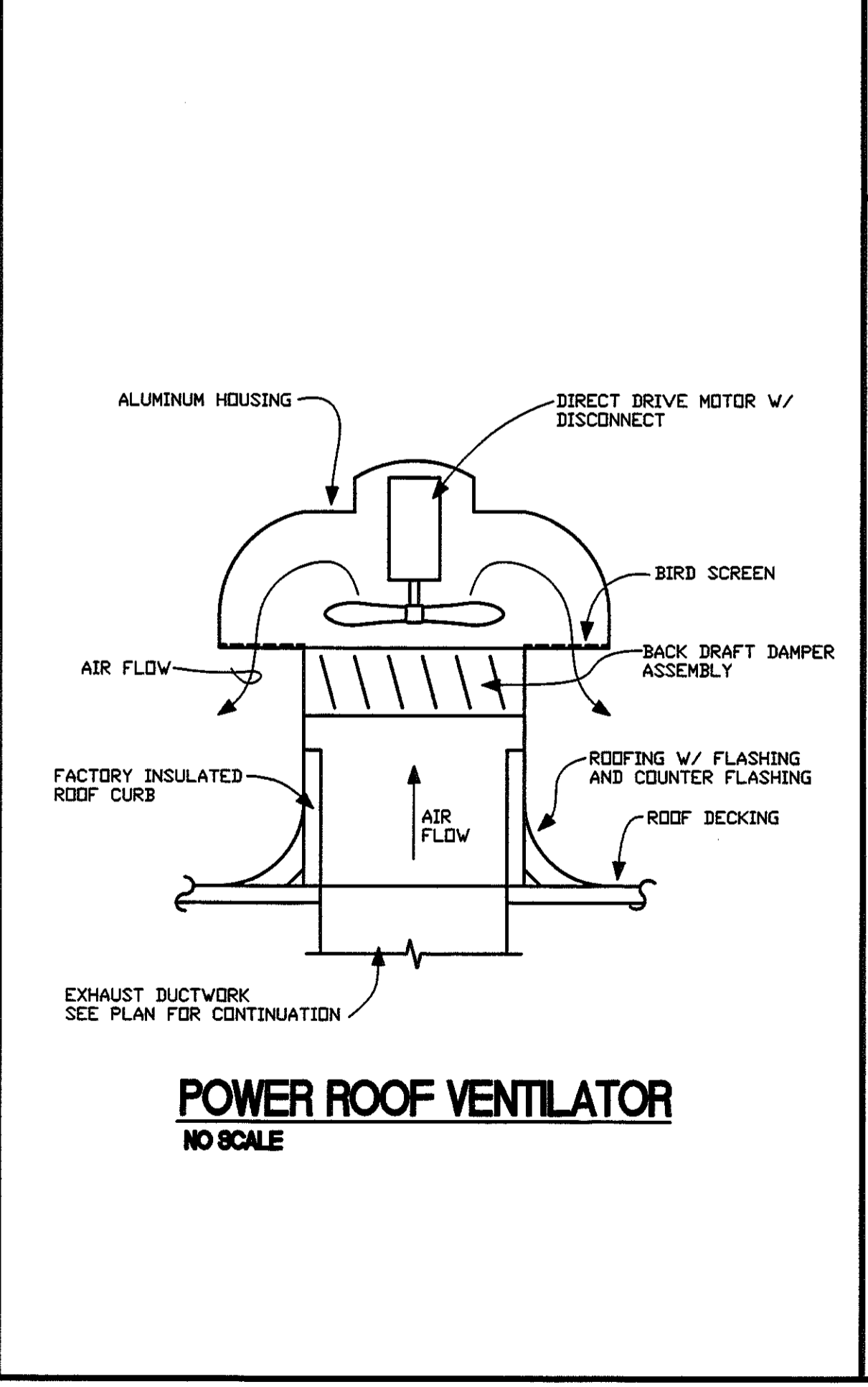
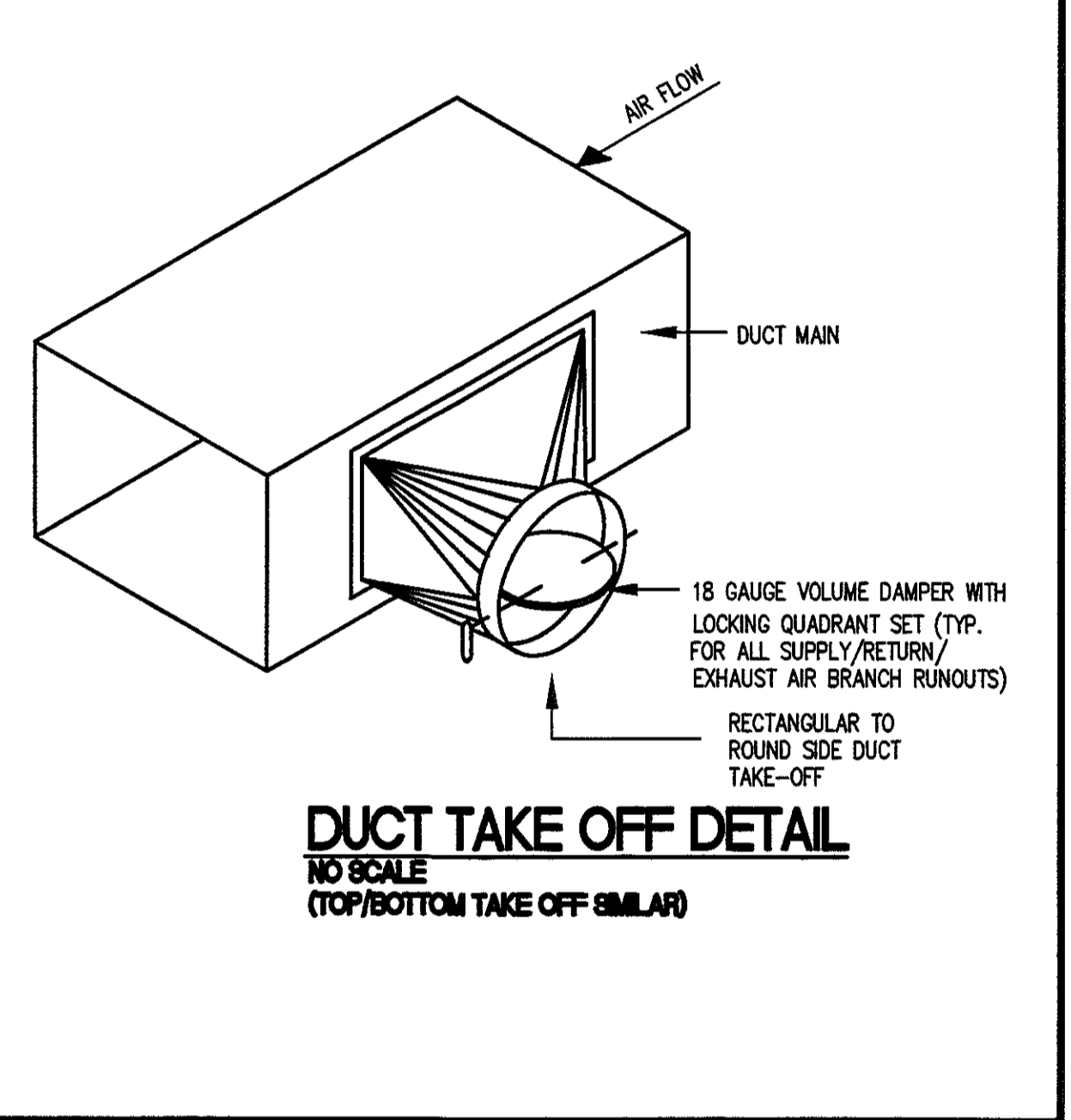
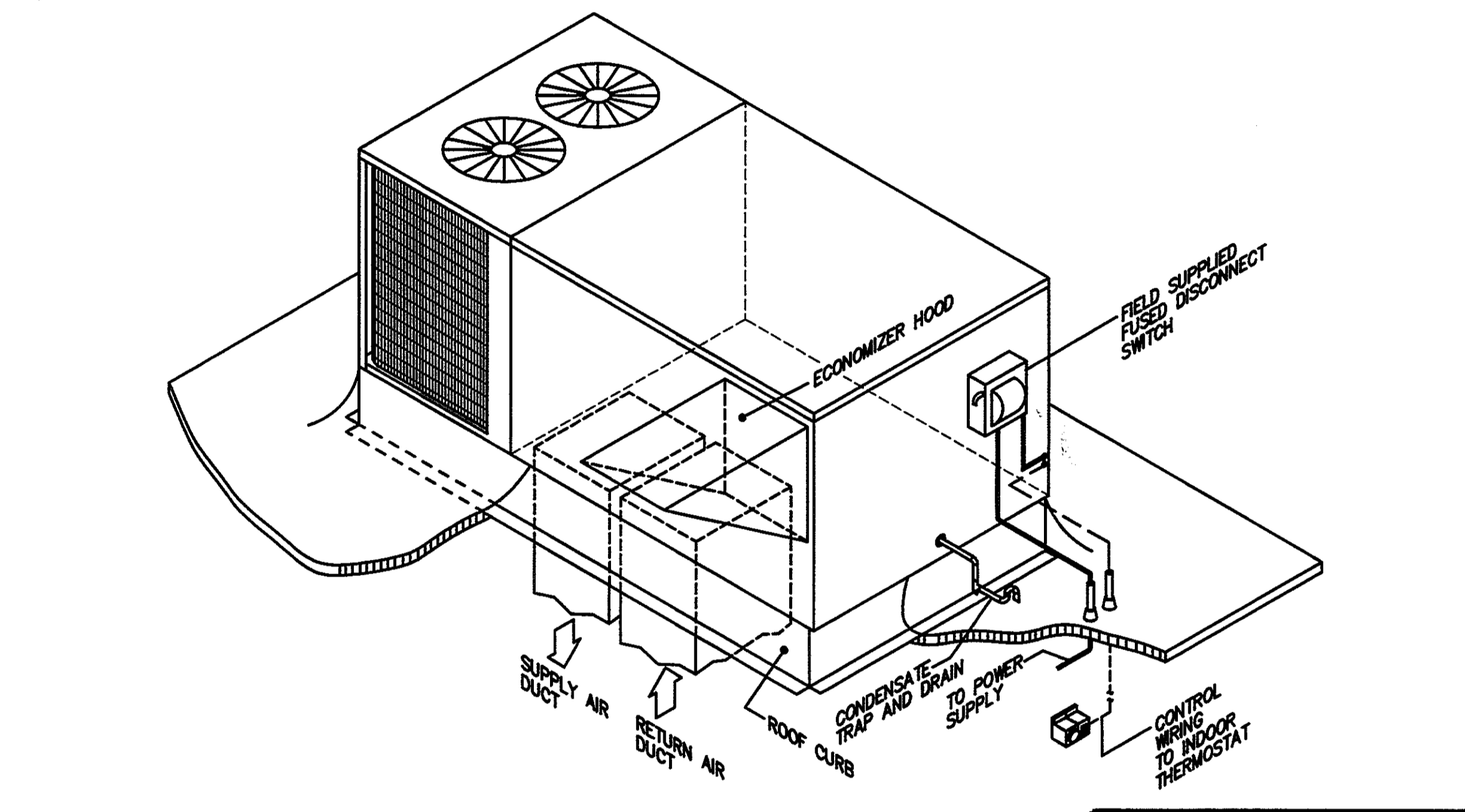
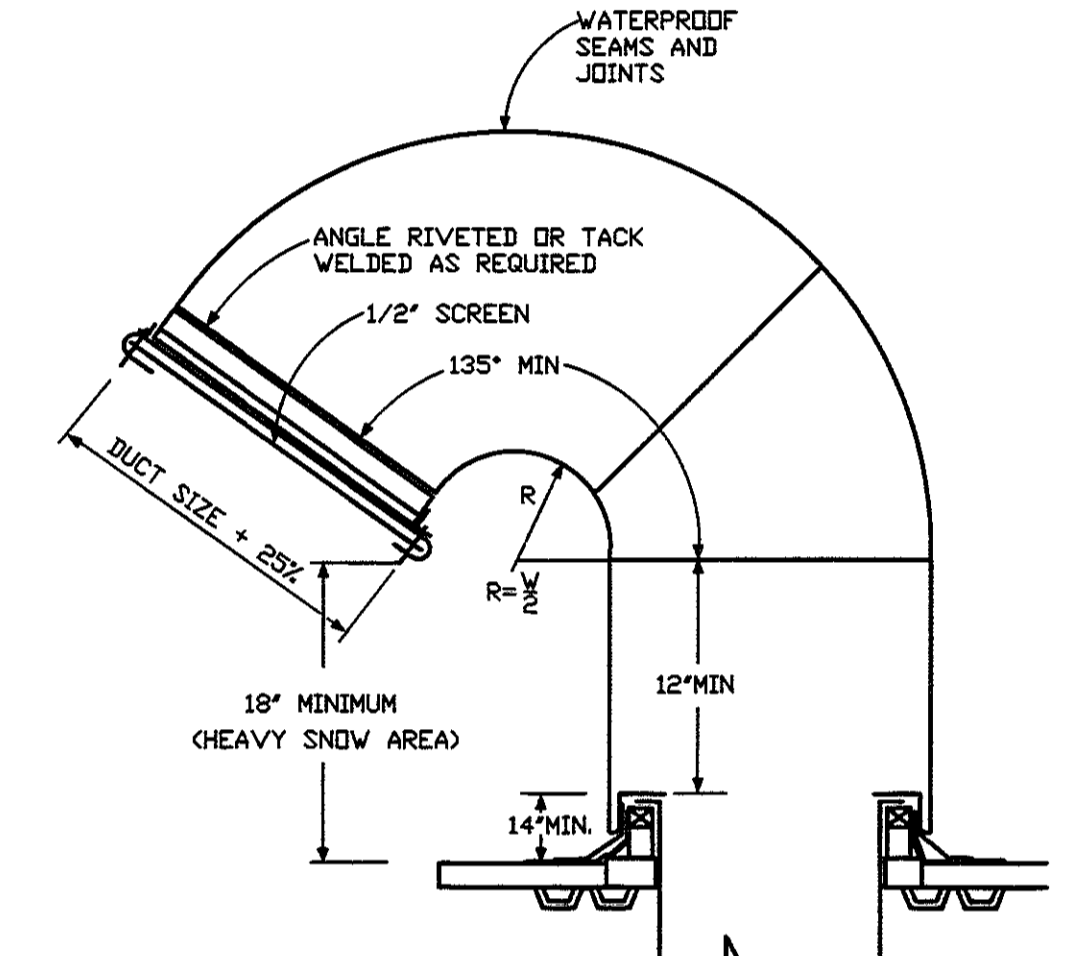
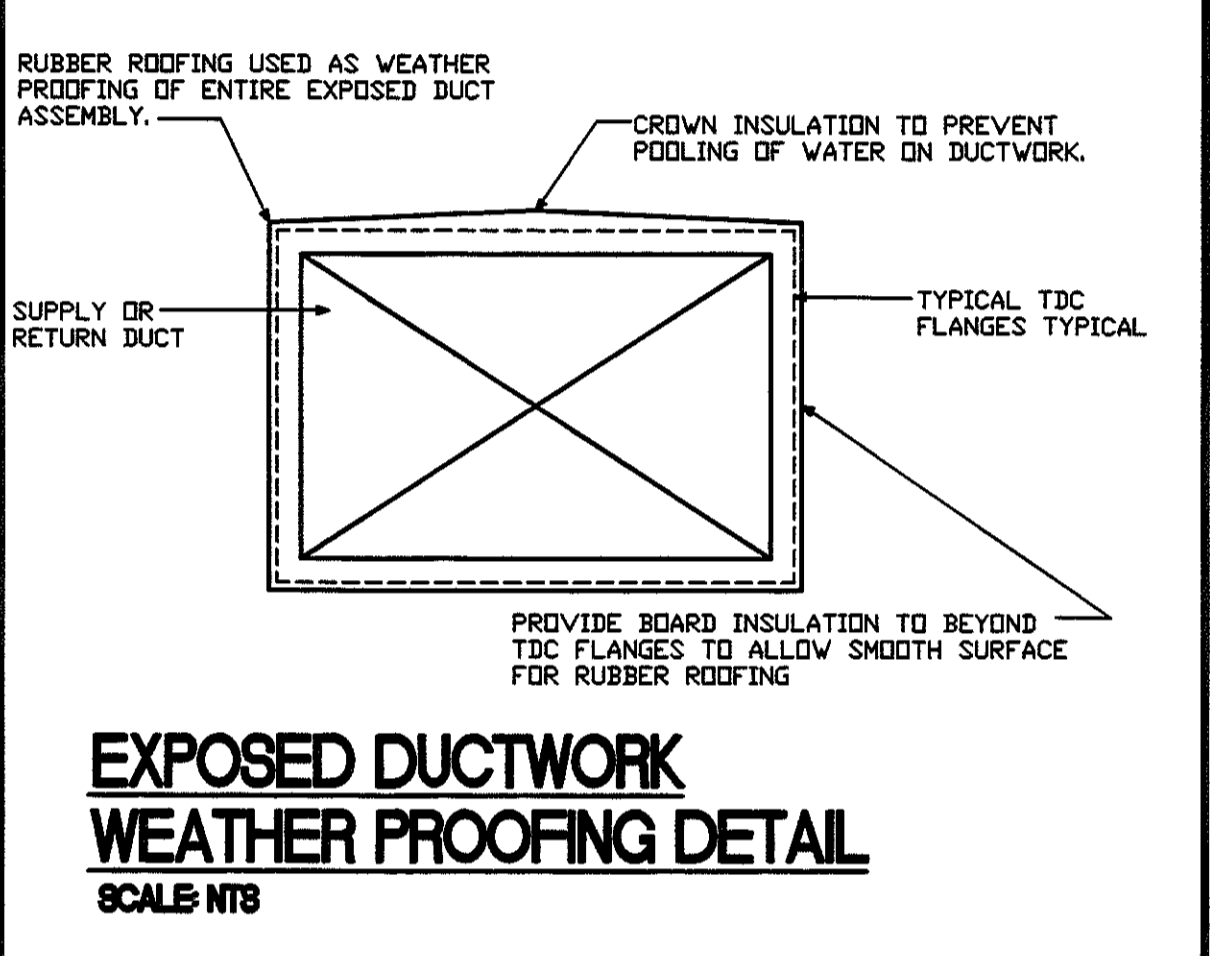
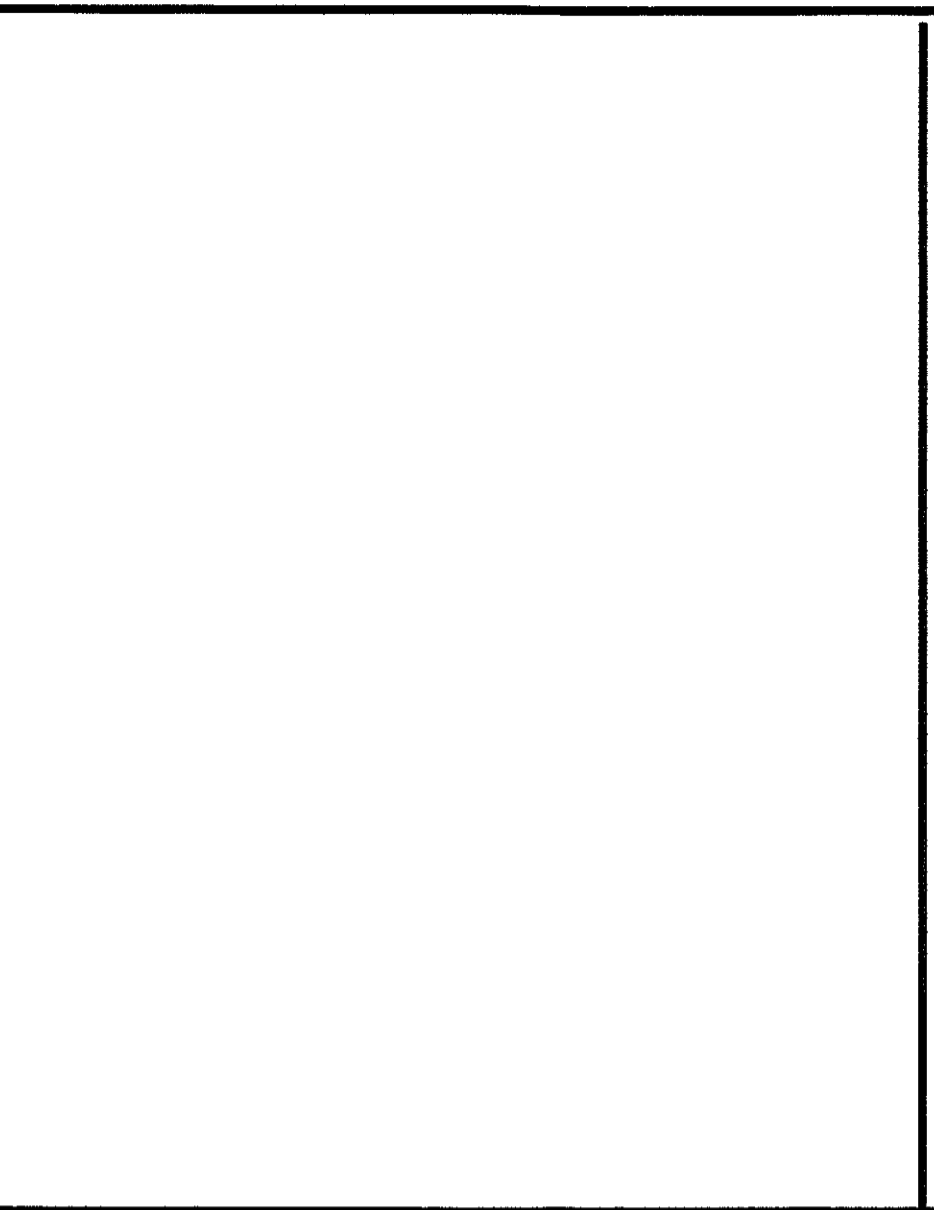
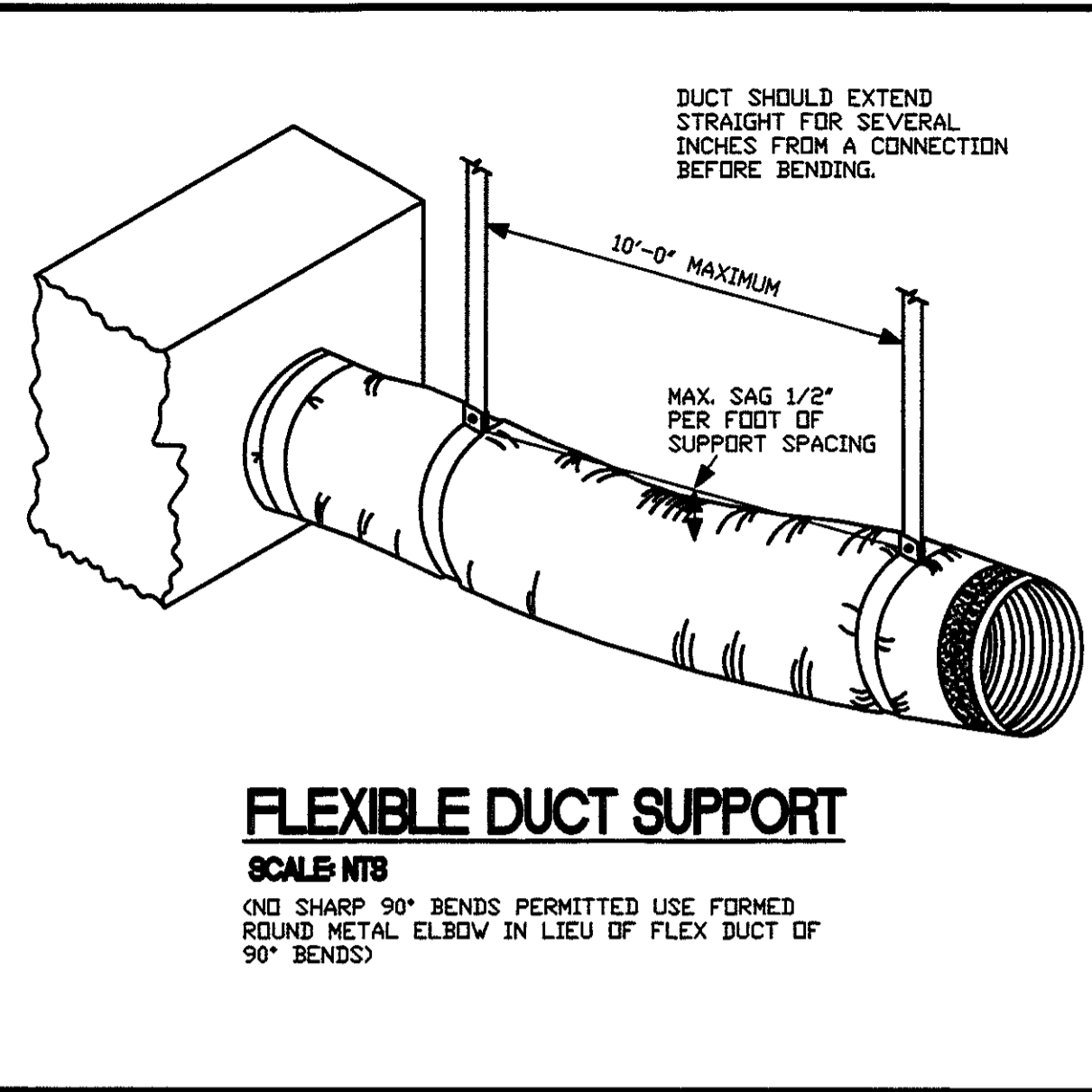
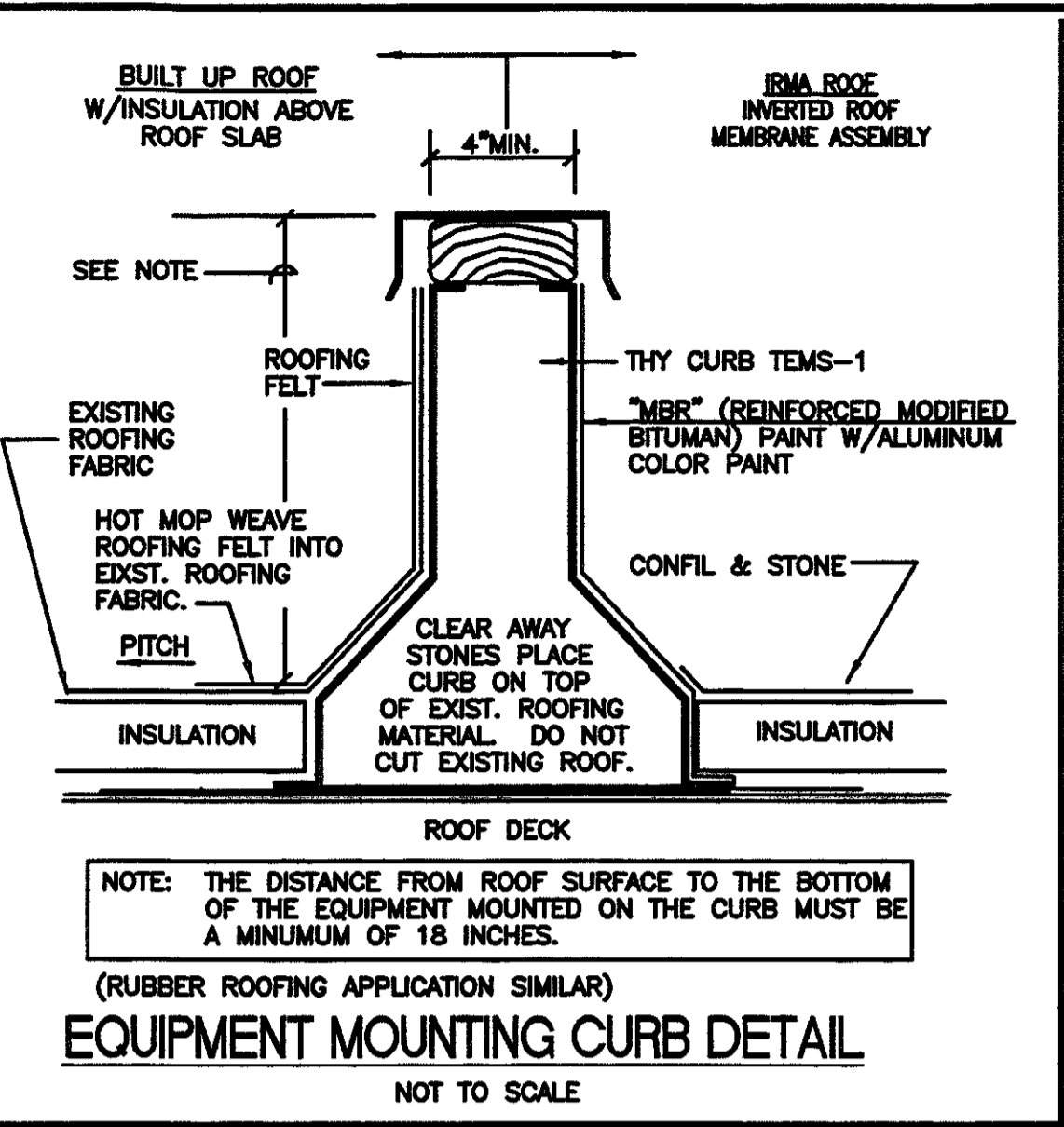
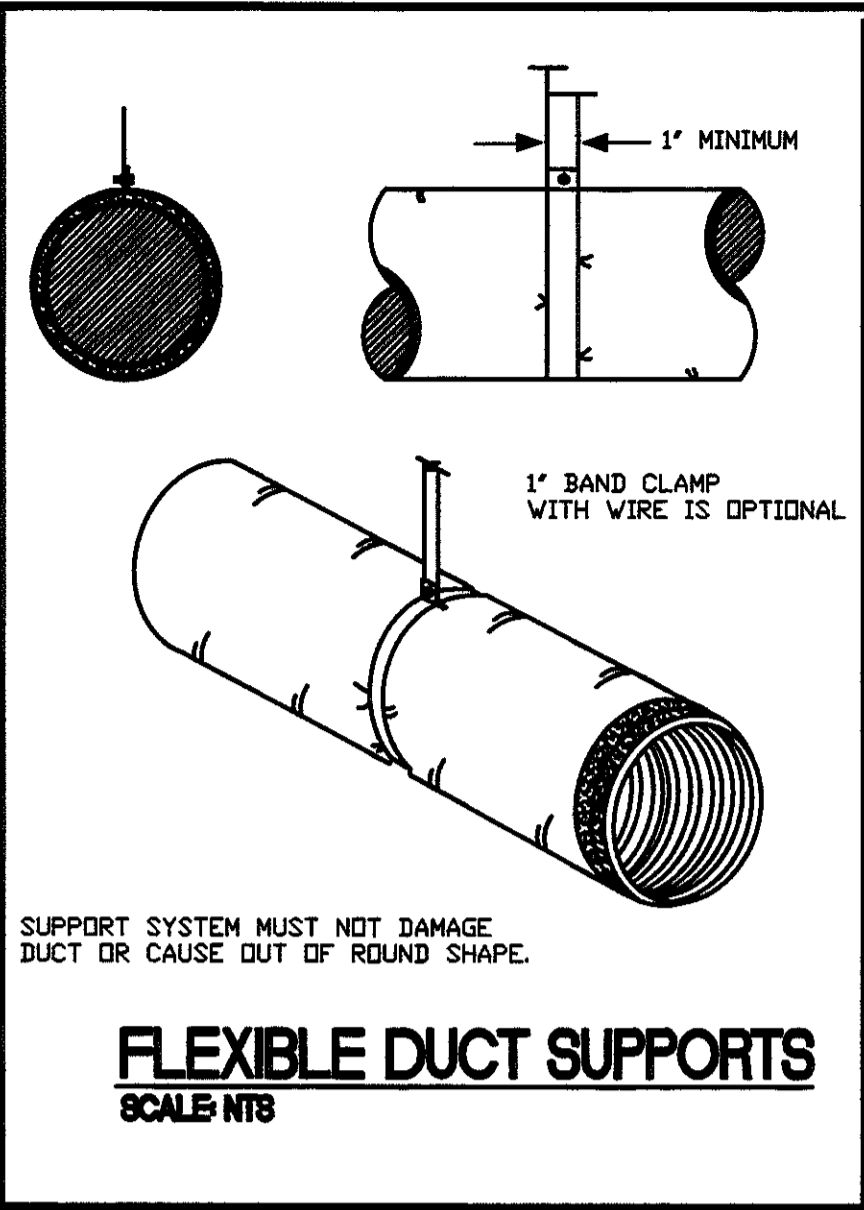


Professional Certification
 I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland License Number: **14401**
 Expiration Date: **4/21/2021**

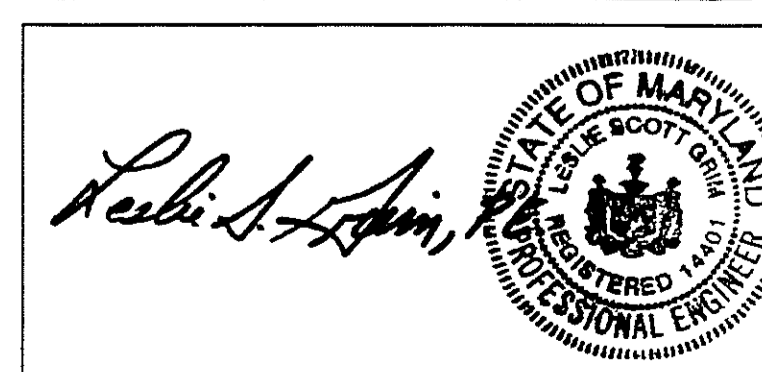
LESLIE SCOTT GRIM, P.E.
 CO. PROF. ENG. MD PE0050461
 DC PROF. ENG. MD PE001021
 DE PROF. ENG. MD 19513
 GA PROF. ENG. MD PE033882
 HI PROF. ENG. MD PE13843
 MD PROF. ENG. MD 14401
 NC PROF. ENG. MD 033364
 NJ PROF. ENG. MD 3497
 NY PROF. ENG. MD 075414
 PA PROF. ENG. MD PE032838E
 VA PROF. ENG. MD 023240
 WY PROF. ENG. MD 10764

REV.	DATE	COMMENT
2/26/21		ISSUED FOR PERMIT

2/26/21

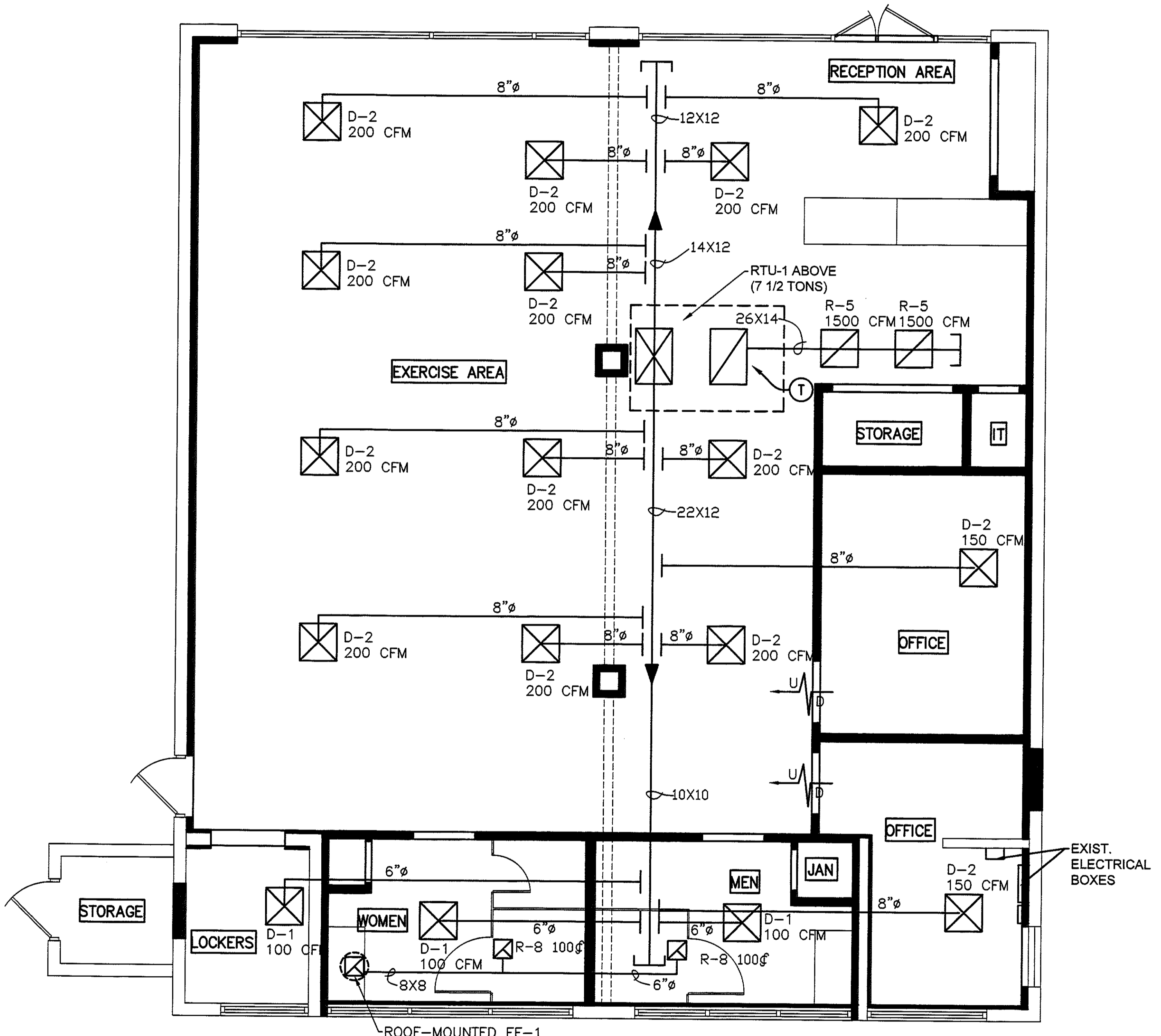


Digitally signed by Leslie S. Grim
 Date: 2021.02.27 17:10:27 -05'00'



Packaged Heat Pump Rooftop Unit Schedule																																
Tag #	Qty	Supply Air Blower					Cooling						Heating						Electrical													
		CFM		HP	ESP (IWG)	Blwr RPM	Temperature (°F)			Capacity MBH		Stages	EER	IEER	Refrigerant	Electric Heater		Heat Pump Ratings		Voltage	MCA	Max Fuse	Weight	Model Number	Brand							
		SA	OA				Ent. Air DB	Lvg. Air DB	OD Amb	Total	Sens.					Temp (°F) Ent. DB	Lvg. DB	MBH	kW							Applied kW	MBH	COP(°F)				
RTU-1	1	3000	0	1.50	0.6	967	80.0	67.0	58.8	57.0	95.0	94.9	68.7	2.0	11.4	12.6	R410A	60.0	86.8	87.0	36.0	25.5	88.0	51.0	3.40	2.25	208-3-60	138.7	150	1225	XP090E36	York

- NOTES:
- 1) Dual enthalpy economizer with barometric relief.
 - 2) Supply fan VFD with manual bypass, Intellispeed control for Single Zone VAV Operation.
 - 3) Factory disconnect, powered convenience outlet and phase monitor.
 - 4) SE controller with discharge air, return air and outdoor air temperature sensors.
 - 5) BACnet, Modbus and N2 communications card.
 - 6) 14" uninsulated roof curb



MECHANICAL PLAN GENERAL NOTES:

- 1) CONTRACTOR SHALL SHIFT/ADJUST DIFFUSER LOCATIONS TO SUIT FIELD CONDITIONS.
- 2) RUN-OUT SHALL BE HARD DUCT WITHIN 3-FT OF DIFFUSER.
- 3) RUN-OUTS ARE TO BE PLACED IN JOIST SPACE TO ALLOW FOR CEILING INSTALLATION.

MECHANICAL SCHEDULE

MARK #	DESCRIPTION
RTU-1	7 1/2-TON TWO-STAGE COOLING, SINGLE PACKAGED R-410A ROOF TOP HEAT PUMP UNIT YORK MODEL #XP090E36S2B6BCA1A1 PROVIDE WITH: 1. 14" ROOF CURB 2. DUAL ENTHALPY ECONOMIZER w/BAROMETRIC RELIEF 3. 7-DAY PROGRAMMABLE THERMOSTAT 4. SUPPLY FAN VFD w/MANUAL BYPASS, INTELISPEED CONTROL FOR SINGLE ZONE VAV OPERATION 5. FACTORY DISCONNECT, POWERED CONVENIENCE OUTLET & PHASE MOTOR 6. SE CONTROLLER w/DISCHARGE AIR, RETURN AIR & OUTDOOR AIR TEMPERATURE SENSORS 7. BACNET, MODBUS & N2 COMMUNICATIONS CARD 8. CO2 SENSOR - MODULATE O.A. 9. SMOKE DETECTOR 10. 208V 3Ø 4W 11. 3000 CFM @ 0.6" ESP, SET O.A. TO 200 CFM
EF-1	ROOF MOUNTED EXHAUST FAN (PRV) GREENHECK#G-075-DGEX-QD 214CFM @ 0.375 EXP, PROVIDE WITH ROOF CURB, BACK DRAFT DAMPER. INTERLOCK WITH EXERCISE ROOM LIGHTS.

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

Digitally signed
by Leslie S. Grim
Date:
2021.03.31
13:37:41 -04'00'

Leslie S. Grim, P.E.

L.S. GRIM, INC.
Consulting Engineers
 18822 REEFERSON BLVD., HAGERSTOWN, MD 21742-4387
 PHONE: 301.797.1702 FAX: 301.797.4931
 PHONE TOLL FREE: 1-888-797-GRIM (4746)
 DC: LICENSE # 14401
 MD: LICENSE # 14401
 VA: LICENSE # 14401
 WV: LICENSE # 14401

WASHINGTON COUNTY
COMMISSION ON AGING
SENIOR ACTIVITY ANNEX
MECHANICAL NEW WORK PLAN

Professional Certification
I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland
License Number: 14401
Expiration Date: 4/21/2021

REV.	DATE	DESCRIPTION

ISSUED FOR PERMIT

DATE: 2/26/21

DRAWN BY: LBG

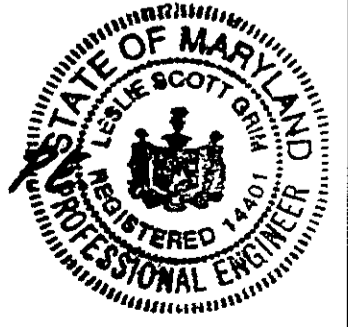
M-11
OF 4 SHEETS
DATE: FEB. 26, 2021

COMMERCIAL REGISTERS, GRILLES, & DIFFUSERS

MARK SEE NOTES	DESCRIPTION	CFM SEE NOTES	NECK	BLOW	COLOR	MATERIAL	MANUFACTURER & MODEL NO.
D-1	24"X24" LAY-IN SUPPLY DIFFUSER	75 TO 125	6"Ø	4-W	WHITE	STEEL	KRUEGER MODEL #1400F23 W/ INTERGRAL ROUND NECK COLLAR AND PRN100 DAMPER
D-2	24"X24" LAY-IN SUPPLY DIFFUSER	130 TO 210	8"Ø	4-W	WHITE	STEEL	KRUEGER MODEL #1400F23 W/ INTERGRAL ROUND NECK COLLAR AND PRN100 DAMPER
D-3	24"X24" LAY-IN SUPPLY DIFFUSER	215 TO 300	10"Ø	4-W	WHITE	STEEL	KRUEGER MODEL #1400F23 W/ INTERGRAL ROUND NECK COLLAR AND PRN100 DAMPER
D-4	24"X24" LAY-IN SUPPLY DIFFUSER	305 TO 425	12"Ø	4-W	WHITE	STEEL	KRUEGER MODEL #1400F23 W/ INTERGRAL ROUND NECK COLLAR AND PRN100 DAMPER
D-5	24"X24" LAY-IN SUPPLY DIFFUSER	500 TO 1000	14"Ø	4-W	WHITE	STEEL	KRUEGER MODEL #1400F23 W/ INTERGRAL ROUND NECK COLLAR AND PRN100 DAMPER
D-6	CEILING SURFACE MOUNTED SUPPLY DIFFUSER	50 TO 100	6"X6"	4-W	WHITE	STEEL	KRUEGER MODEL#SH4 F22 DBD (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
D-7	CEILING SURFACE MOUNTED SUPPLY DIFFUSER	110 TO 225	9"X9"	4-W	WHITE	STEEL	KRUEGER MODEL#SH4 F22 DBD (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
D-8	CEILING SURFACE MOUNTED SUPPLY DIFFUSER	200 TO 400	12"X12"	4-W	WHITE	STEEL	KRUEGER MODEL#SH4 F22 DBD (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
D-9	CEILING SURFACE MOUNTED SUPPLY DIFFUSER	310 TO 625	15"X15"	4-W	WHITE	STEEL	KRUEGER MODEL#SH4 F22 DBD (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
D-10	CEILING SURFACE MOUNTED SUPPLY DIFFUSER	450 TO 900	18"X18"	4-W	WHITE	STEEL	KRUEGER MODEL#SH4 F22 DBD (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
D-11	24"X24" LAY-IN PERFORATED SUPPLY DIFFUSER	UP TO 125	6"Ø	4-W	WHITE	STEEL	KRUEGER MODEL#6604 (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
D-12	24"X24" LAY-IN PERFORATED SUPPLY DIFFUSER	125 TO 230	8"Ø	4-W	WHITE	STEEL	KRUEGER MODEL#6604 (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
D-13	24"X24" LAY-IN PERFORATED SUPPLY DIFFUSER	230 TO 350	10"Ø	4-W	WHITE	STEEL	KRUEGER MODEL#6604 (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
D-14	24"X24" LAY-IN PERFORATED SUPPLY DIFFUSER	350 TO 500	12"Ø	4-W	WHITE	STEEL	KRUEGER MODEL#6604 (ROUND TO SQUARE ADAPTER MAY BE REQUIRED SEE PLAN)
G-1	COMMERCIAL SIDE WALL SUPPLY REGISTER	75 TO 110	8"X4"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
G-2	COMMERCIAL SIDE WALL SUPPLY REGISTER	110 TO 140	10"X4"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
G-3	COMMERCIAL SIDE WALL SUPPLY REGISTER	140 TO 170	12"X4"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
G-4	COMMERCIAL SIDE WALL SUPPLY REGISTER	170 TO 220	10"X6"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
G-5	COMMERCIAL SIDE WALL SUPPLY REGISTER	220 TO 265	12"X6"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
G-6	COMMERCIAL SIDE WALL SUPPLY REGISTER	265 TO 310	14"X6"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
G-7	COMMERCIAL SIDE WALL SUPPLY REGISTER	310 TO 355	16"X6"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
G-8	COMMERCIAL SIDE WALL SUPPLY REGISTER	355 TO 450	20"X6"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
G-9	COMMERCIAL SIDE WALL SUPPLY REGISTER	450 TO 610	20"X8"	2-W	WHITE	STEEL	KRUEGER MODEL #880V0BD
R-1	24"X24" LAY-IN RETURN GRILLE	100 TO 200	8"Ø	N/A	WHITE	ALUM	KRUEGER MODEL #S80HSFFF23 #3
R-2	24"X24" LAY-IN RETURN GRILLE	200 TO 400	10"Ø	N/A	WHITE	ALUM	KRUEGER MODEL #S80HSFFF23 #3
R-3	24"X24" LAY-IN RETURN GRILLE	400 TO 800	12"Ø	N/A	WHITE	ALUM	KRUEGER MODEL #S80HSFFF23 #3
R-4	24"X24" LAY-IN RETURN GRILLE	800 TO 1200	16"Ø	N/A	WHITE	ALUM	KRUEGER MODEL #S80HSFFF23 #3
R-5	24"X24" LAY-IN RETURN GRILLE	1200 TO 1500	20"X20"	N/A	WHITE	ALUM	KRUEGER MODEL #S80HSFFF23 #3
R-6	24"X48" LAY-IN RETURN GRILLE	2000 TO 3000	22"X22"	N/A	WHITE	ALUM	KRUEGER MODEL #S80HSFFF23 #3
R-7	24"X48" LAY-IN RETURN GRILLE	3000 TO 5000	22"X32"	N/A	WHITE	ALUM	KRUEGER MODEL #S80HSFFF23 #3
R-8	COMMERCIAL SURFACE MOUNTED RETURN GRILLE	200 TO 300	12"X6"	N/A	WHITE	STEEL	KRUEGER MODEL #S80H #3
R-9	COMMERCIAL SURFACE MOUNTED RETURN GRILLE	300 TO 600	12"X12"	N/A	WHITE	STEEL	KRUEGER MODEL #S80H #3
R-10	COMMERCIAL SURFACE MOUNTED RETURN GRILLE	600 TO 900	18"X12"	N/A	WHITE	STEEL	KRUEGER MODEL #S80H #3
R-11	COMMERCIAL SURFACE MOUNTED RETURN GRILLE	900 TO 1200	18"X18"	N/A	WHITE	STEEL	KRUEGER MODEL #S80H #3
R-12	COMMERCIAL SURFACE MOUNTED RETURN GRILLE	1200 TO 1600	24"X20"	N/A	WHITE	STEEL	KRUEGER MODEL #S80H #3
R-13	COMMERCIAL SURFACE MOUNTED RETURN GRILLE	1600 TO 2400	24"X24"	N/A	WHITE	STEEL	KRUEGER MODEL #S80H #3
R-14	COMMERCIAL SURFACE MOUNTED RETURN GRILLE	2400 TO 6000	24"X48"	N/A	WHITE	STEEL	KRUEGER MODEL #S80H #3
R-15	24"X24" LAY-IN PERFORATED RETURN GRILLE	UP TO 1600	24"X24"	N/A	WHITE	STEEL	KRUEGER MODEL #6790 F-3 #3

- EXACT CFMS DESIGNATED ON PLAN AT DIFFUSER LOCATION.
- REGISTERS, GRILLES, AND DIFFUSERS DESIGNATIONS MAY APPEAR ON SCHEDULE BUT MAY NOT BE UTILIZED ON THE PLAN. REFER TO PLAN FOR QUANTITY AND DESIGNATION.
- REFER TO PLAN TO DETERMINE IF FILTERS ARE REQUIRED IN RETURN GRILLES, PROVIDE APPROPRIATE STYLE /MODEL TO ACCOMMODATE FILTERS.

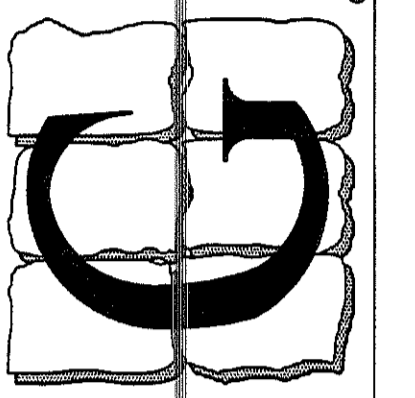
Digitally signed
by Leslie S. Grim
Date:
2021.02.27
17:09:11 -05'00'



Leslie S. Grim, P.E.

20-055

L.S. GRIM, INC.
Consulting Engineers



WASHINGTON COUNTY
COMMISSION ON AGING
SENIOR ACTIVITY ANNEX
MECHANICAL SCHEDULES

Professional Certification
I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland
License Number: 14401
Expiration Date: 4/21/2021

LESLIE SCOTT GRIM, P.E.
DC PROF. ENG. NO. PE0050461
DE PROF. ENG. NO. PE03382
IA PROF. ENG. NO. PE13943
MD PROF. ENG. NO. 14401
NC PROF. ENG. NO. 033364
NJ PROF. ENG. NO. 34697
NY PROF. ENG. NO. 075414
PA PROF. ENG. NO. PE032638E
VA PROF. ENG. NO. 023540
WV PROF. ENG. NO. 10764

REV.	DATE	COMMENT
ISSUED FOR PERMIT	2/26/21	

DRAWN BY: LSG

M-2.0
OF 4 SHEETS
DATE FEB 25, 2021