

### LEGEND

	EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN
	EXISTING DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED
	NEW DUCTWORK
	NEW DUCTWORK WITH SMOKE DAMPER (U.L. APPROVED)
	NEW DUCTWORK WITH FIRE DAMPER (U.L. APPROVED)
	NEW DUCTWORK WITH FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR
	NEW DUCTWORK WITH FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR
	SQUARE DUCT TURN WITH TURNING VANES
	EXISTING 4-WAY CEILING DIFFUSER
	EXISTING CEILING REGISTER
	NEW 4-WAY CEILING DIFFUSER
	NEW CEILING REGISTER
	CEILING EXHAUST/RETURN REGISTER
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
	MOTORIZED AIR VOLUME DAMPER (WITH ACCESS DOOR)
	SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR
	FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR
	EXISTING LOW PRESSURE STEAM SUPPLY PIPING
	EXISTING LOW PRESSURE STEAM RETURN PIPING
	LOW PRESSURE STEAM SUPPLY PIPING
	LOW PRESSURE STEAM RETURN PIPING
	LIQUID REFRIGERANT PIPING
	SUCTION REFRIGERANT PIPING
	HOT GAS PIPING
	CONDENSATE DRAIN PIPING
	CHECK VALVES
	STRAINER
	FLOW DIRECTION WITHIN PIPE
	SHUT OFF VALVE
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
	GATE VALVE (HORIZONTAL/VERTICAL)
	SUMMER/WINTER VALVE
	2-WAY CONTROL VALVE
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
	CLEAN OUT
	EXISTING CONDENSING UNIT IDENTIFICATION
	EXISTING EXHAUST FAN IDENTIFICATION
	EXISTING SUPPLY FAN IDENTIFICATION
	EXISTING RETURN FAN IDENTIFICATION
	EXISTING UNIT HEATER IDENTIFICATION
	EXISTING CONDENSATE PUMP IDENTIFICATION
	EXISTING CONVECTOR IDENTIFICATION
	EXISTING CABINET HEATER IDENTIFICATION
	EXISTING STEAM HEATING COIL IDENTIFICATION
	EXISTING FRESH AIR INTAKE IDENTIFICATION
	EXISTING FIN TUBE RADIATION IDENTIFICATION
	NEW VRF HEAT PUMP IDENTIFICATION
	NEW ENERGY RECOVERY UNIT IDENTIFICATION
	NEW CONDENSING UNIT IDENTIFICATION
	NEW COOLING COIL IDENTIFICATION
	NEW CONVECTOR IDENTIFICATION
	NEW UNIT HEATER IDENTIFICATION
	NEW FIN TUBE RADIATION IDENTIFICATION
	WALL MTD. (5'-2" +/- A.F.F.) TEMPERATURE SENSOR
	EXISTING TEMPERATURE SENSOR
	POINT OF DISCONNECTION
	POINT OF CONNECTION, NEW TO EXISTING
	CFM CUBIC FEET PER MINUTE
	FAI FRESH AIR INTAKE
	FC FLEXIBLE CONNECTION
	SECTION/DETAIL/ELEVATION/PART PLAN NUMBER
	DRAWING NUMBER
	SECTION/ELEVATION IDENTIFICATION

### REMOVAL NOTES:

1. THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.

2. DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.

3. EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILING, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.

4. ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

PLOT DATE: February 11, 2021 2:45pm

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

FILE: C:\Users\NPedlow\AppData\Local\Temp\AcPublish\_9356\194600H101.dwg

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S.E.D. CONTROL NUMBER:  
66-23-00-01-0-202-015

BID SCHEDULE #

02-12-2021	BID
04-09-2020	PROGRESS DRAWINGS
01-24-2020	SCHEMATIC DESIGN
DATE	ISSUED TO
SHEET SIZE	DRAWING NO.
30"x42"	H101
SCALE	AS NOTED
DRAWN BY	FILE NO.
F & D	19356.00

PROJECT: YONKERS SCHOOL DISTRICT LINCOLN HIGH SCHOOL AUDITORIUM UPGRADES & RELATED WORK 375 NEELEARD AVENUE, YONKERS, NY 10904

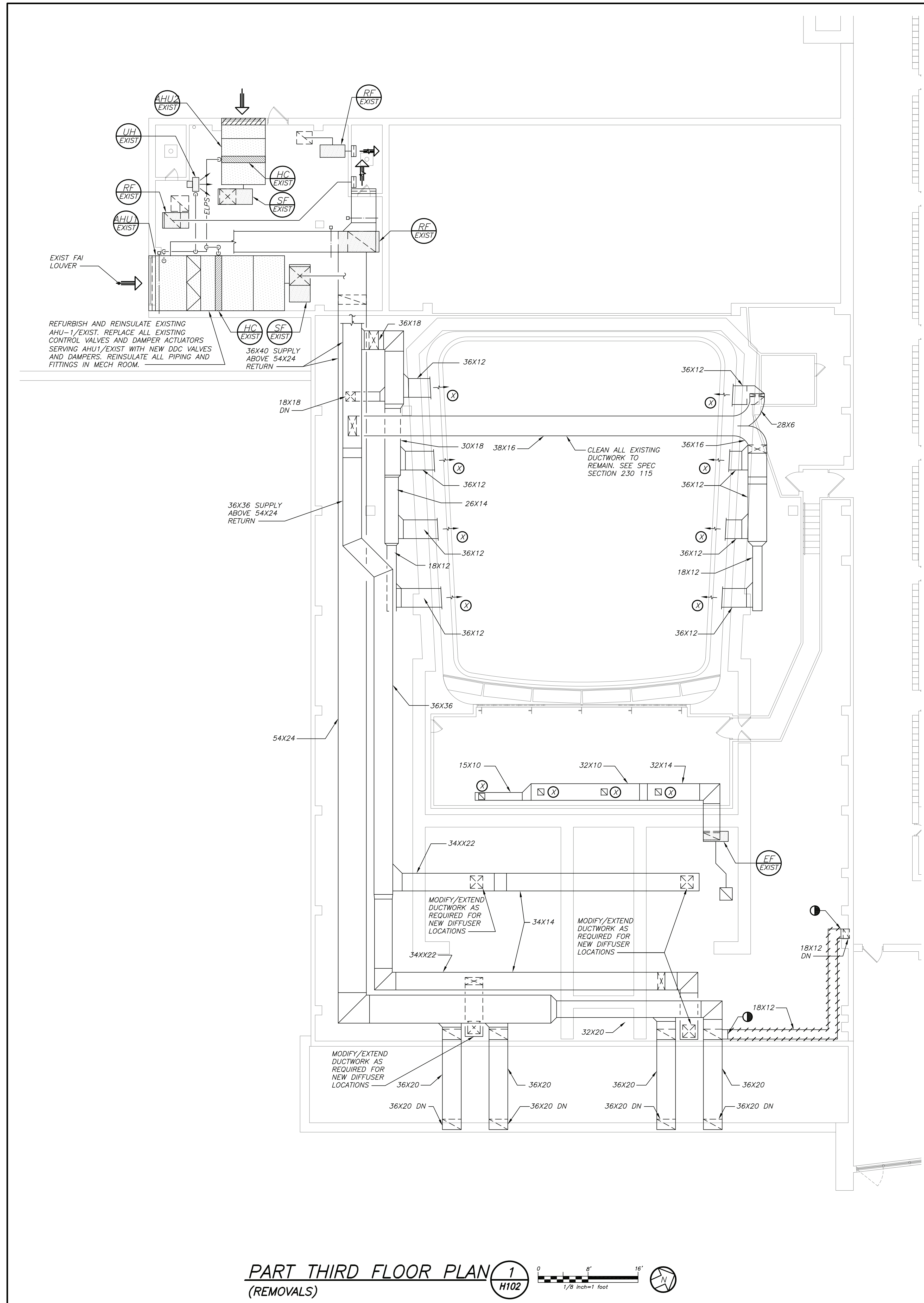
DRAWING TITLE: BALCONY FLOOR PLANS (REMOVALS)



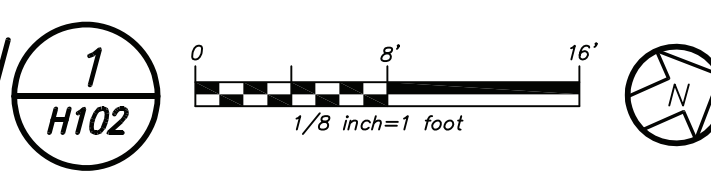
PLOT DATE: February 11, 2021 - 2:49pm

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FILE: Y:\YONKERS PUBLIC SCHOOLS\YPS - Lincoln HS - Auditorium Renos (1946.00)\Drawings\HVAC\194600H102.dwg



PART THIRD FLOOR PLAN  
(REMOVALS)



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ARCHITECTS  
PLANNERS

S.E.D. CONTROL NUMBER:  
66-23-00-01-0-202-015

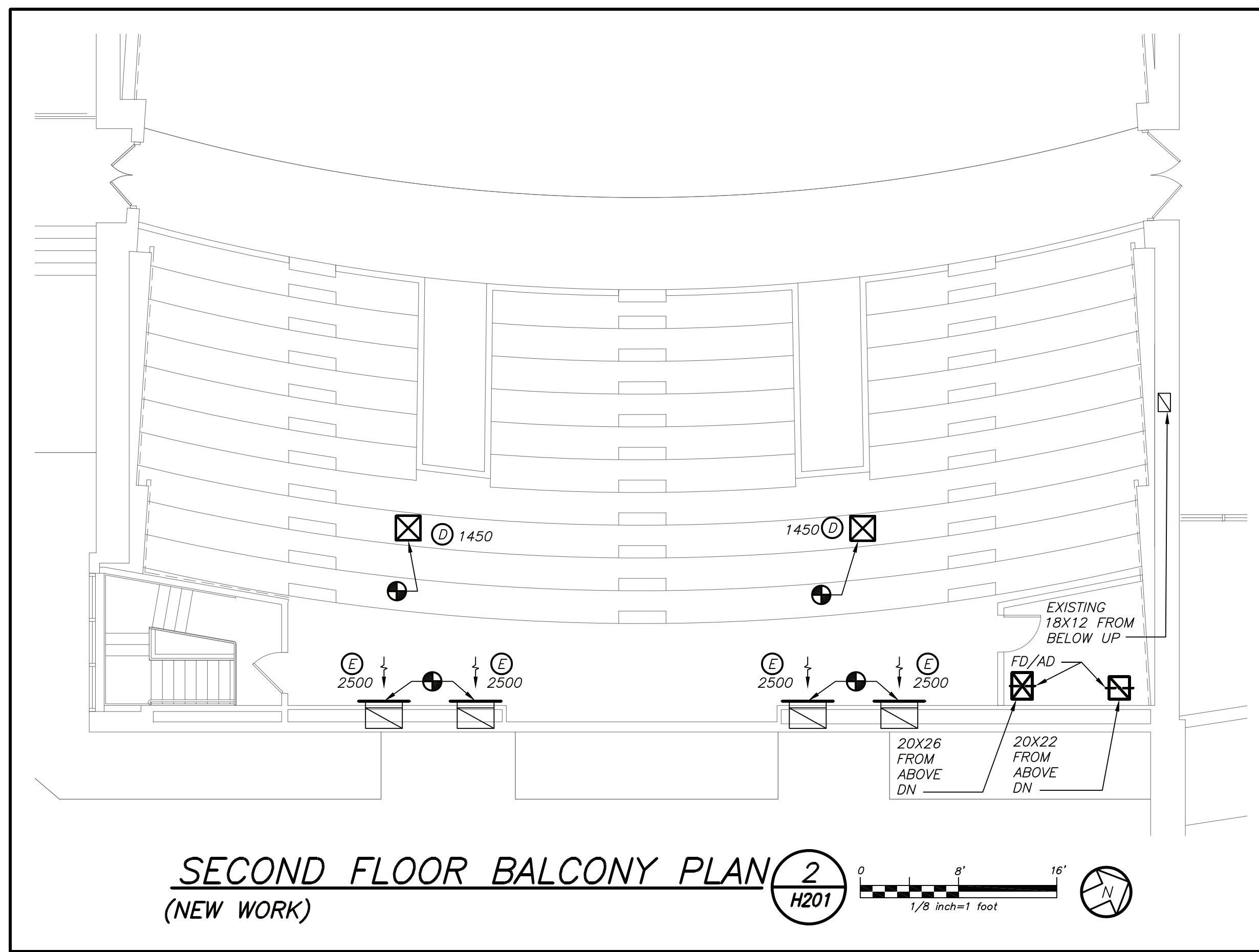
BID SCHEDULE #

PROJECT TITLE:  
YONKERS SCHOOL DISTRICT  
LINCOLN HIGH SCHOOL  
AUDITORIUM UPGRADES & RELATED WORK  
375 BEECHARD AVENUE, YONKERS, NY 10704

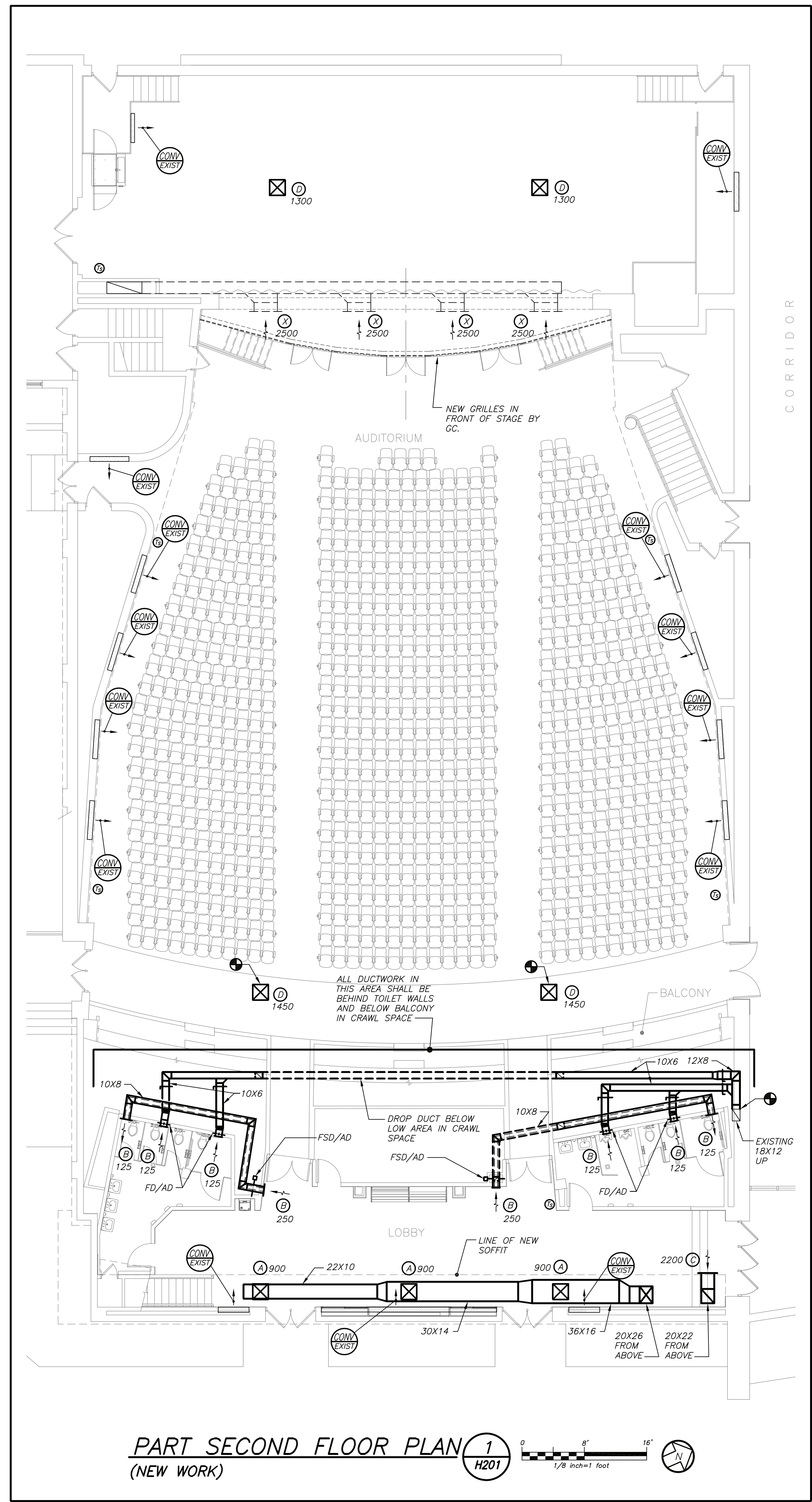
DRAWING TITLE:  
PART THIRD FLOOR PLAN (REMOVALS)

02-12-2021	BID
04-09-2020	PROGRESS DRAWINGS
01-24-2020	SCHEMATIC DESIGN
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO. <b>H102</b>
SCALE AS NOTED	FILE NO. 19356.00
DRAWN BY F & D	





**SECOND FLOOR BALCONY PLAN 2**  
(NEW WORK)  
H201  
1/8 inch=1 foot



**PART SECOND FLOOR PLAN 1**  
(NEW WORK)  
H201  
1/8 inch=1 foot

CORRIDOR

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S.E.D. CONTROL NUMBER:  
66-23-00-01-0-202-015

BID SCHEDULE #

PROJECT TITLE:  
YONKERS SCHOOL DISTRICT  
LINCOLN HIGH SCHOOL  
AUDITORIUM UPGRADES & RELATED WORK  
375 NEELEND AVENUE, YONKERS, NY 10594

DRAWING TITLE:  
PART SECOND FLOOR, AND SECOND FLOOR  
BALCONY PLANS (NEW WORK)

02-12-2021	BID
04-09-2020	PROGRESS DRAWINGS
01-24-2020	SCHEMATIC DESIGN
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO.
SCALE AS NOTED	<b>H201</b>
DRAWN BY F & D	FILE NO. 19356.00

PLOT DATE: February 11, 2021 - 2:49pm

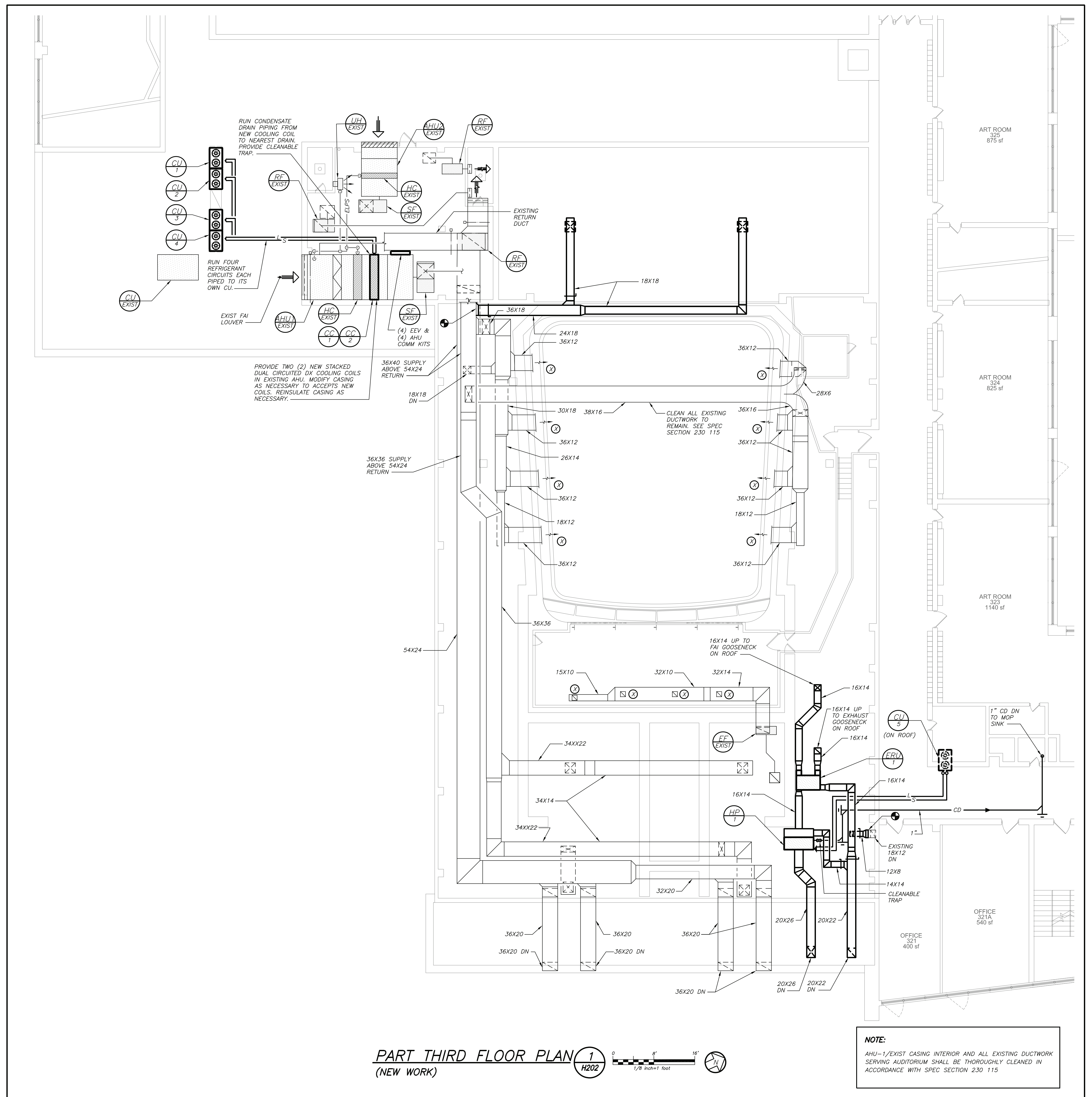
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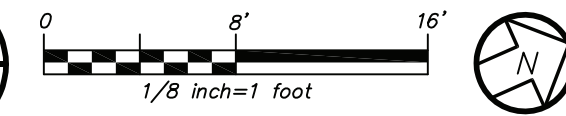
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FILE: Y:\YONKERS PUBLIC SCHOOLS\YPS - Lincoln HS - Auditorium Renos (1946.00)\Drawings\HVAC\194600H202.dwg



**PART THIRD FLOOR PLAN 1**  
 (NEW WORK) H202



**NOTE:**  
 AHU-1/EXIST CASING INTERIOR AND ALL EXISTING DUCTWORK SERVING AUDITORIUM SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH SPEC SECTION 230.115

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S.E.D. CONTROL NUMBER:  
 66-23-00-01-0-202-015

BID SCHEDULE #

PROJECT: YONKERS SCHOOL DISTRICT LINCOLN HIGH SCHOOL AUDITORIUM UPGRADES & RELATED WORK 375 BEECHARD AVENUE, YONKERS, NY 10794  
 DRAWING TITLE: PART THIRD FLOOR PLAN (NEW WORK)

02-12-2021	BID
04-09-2020	PROGRESS DRAWINGS
01-24-2020	SCHEMATIC DESIGN
DATE	ISSUED TO
SHEET SIZE 30"x42"	DRAWING NO.
SCALE AS NOTED	<b>H202</b>
DRAWN BY F & D	FILE NO. 19356.00



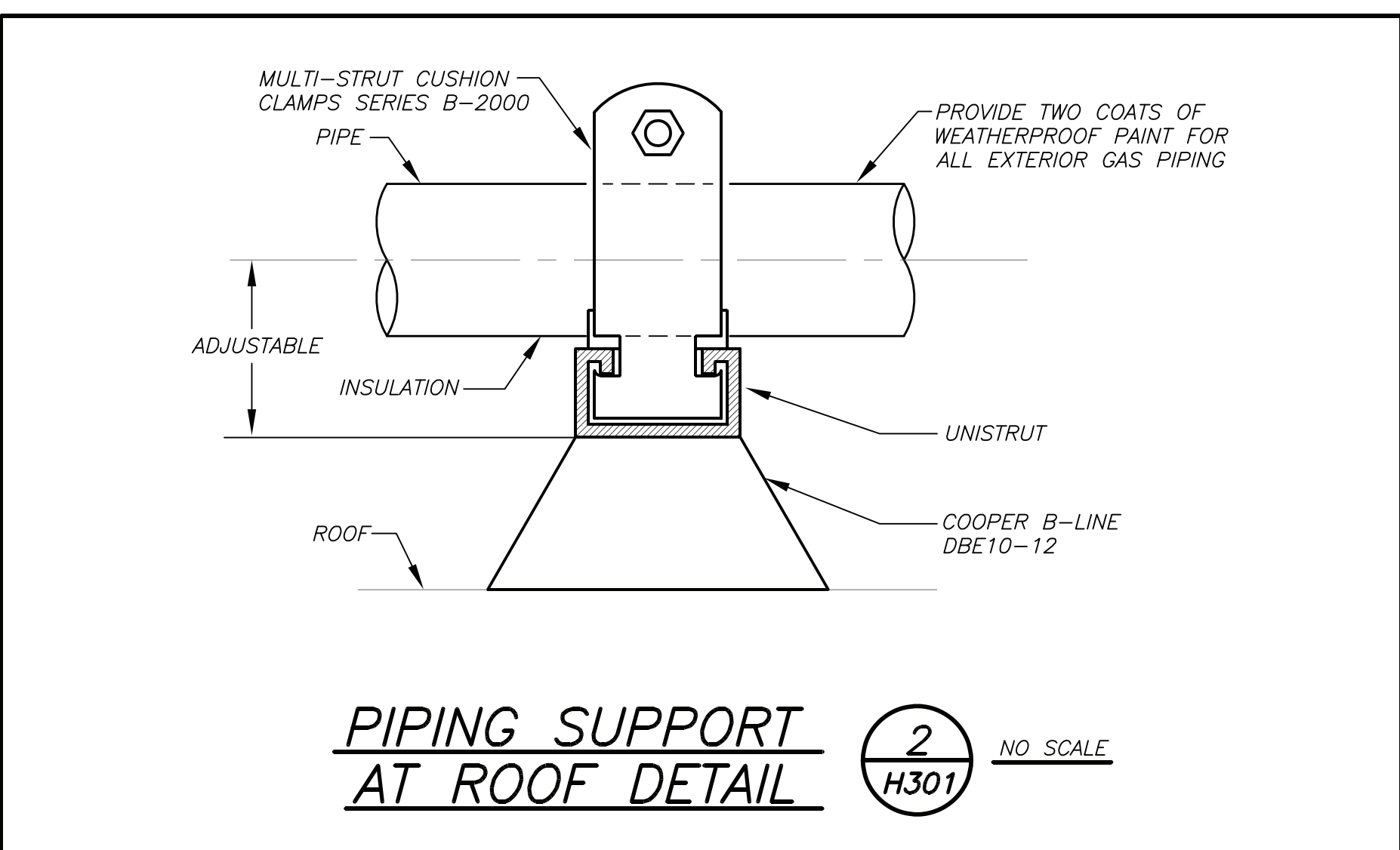
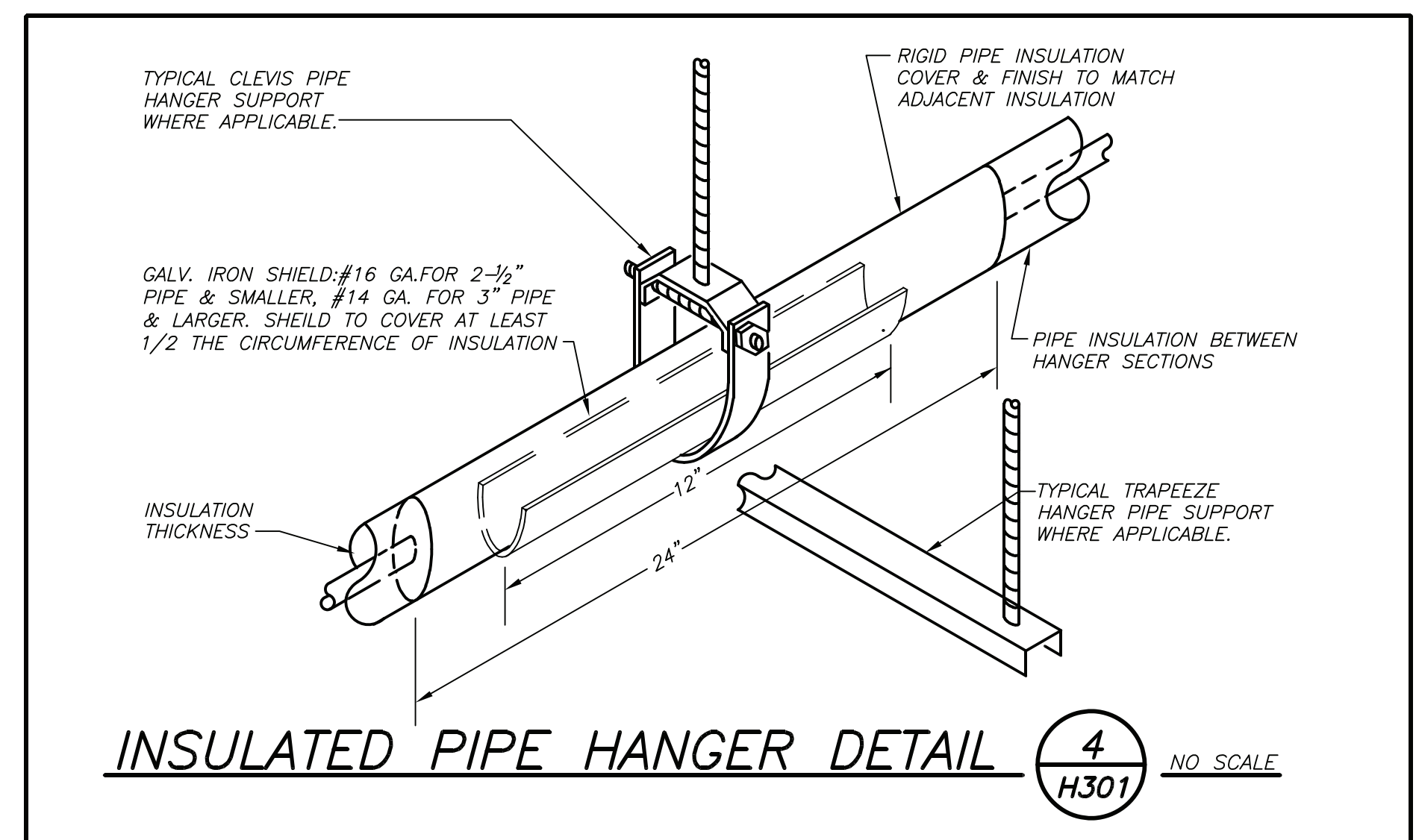
SCHEDULE OF ENERGY RECOVERY UNITS																									
GENERAL DATA					SUPPLY FAN DATA				EXHAUST FAN DATA				ELECTRICAL DATA				HEAT EXCHANGER				PHYSICAL DATA				REMARKS
MARK	SERVICE	LOCATION	OUTSIDE AIR CFM	MODEL No. (1)	CFM	EXT. S.P. IN. WG	CFM	EXT. S.P. IN. WG	FLA	MCA	MOP	ELECTRICAL SERVICE	MODEL	TYPE	SUMMER L.A.T. DB °F WB °F	WINTER L.A.T. DB °F WB °F	L (in.)	W (in.)	H (in.)	WEIGHT (LBS)					
(EVL)	LOBBY	CATWALK	1500	U-ERV1800	1500	2.0	1500	2.0	15.4	19.2	25	208/3/60	EW1-11-42	CORE	80	67	58	42	54	32	36	400	REFER TO (2)(4)(5)(6)		

**NOTES**  
 (1) AS MANUFACTURED BY "ENERGY WALL".  
 (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
 (3) DESIGN AIR CONDITIONS: SUMMER: OA (94°F/75°F) RA (77°F/65°F); WINTER: OA (10°F/8°F) RA (70°F/60°F).  
 (4) UNIT TO BE A MODULAR UNIT TO FIT THROUGH BUILDING OPENINGS, STAIRS, ELEVATORS, ETC. FOR FIELD ASSEMBLY. UNIT TO BE CEILING MOUNTED. PROVIDE VIBRATION ISOLATORS.  
 (5) PROVIDE UNIT WITH FULLY MODULATING ROTARY DAMPER TO ALLOW FOR 100% ECONOMIZER AND FOR FROST PROTECTION. PROVIDE DISCONNECT SWITCHES, PHASE PROTECTION, MERV 13 FILTERS.

SCHEDULE OF DX COOLING COILS									
MARK	SERVICE	MODEL No. (1)	COOLING CAP. BTU/HR	CFM	FPM	COIL FACE AREA SQ. FT.	ROWS	FINES PER INCH	REMARKS
(EVL)	LOBBY	DX58S03S10	464,000	10,000	381	52.5	3	10	REFER TO (2)(3)
(EVL)	LOBBY	DX58S03S10	464,000	10,000	381	52.5	3	10	REFER TO (2)(3)

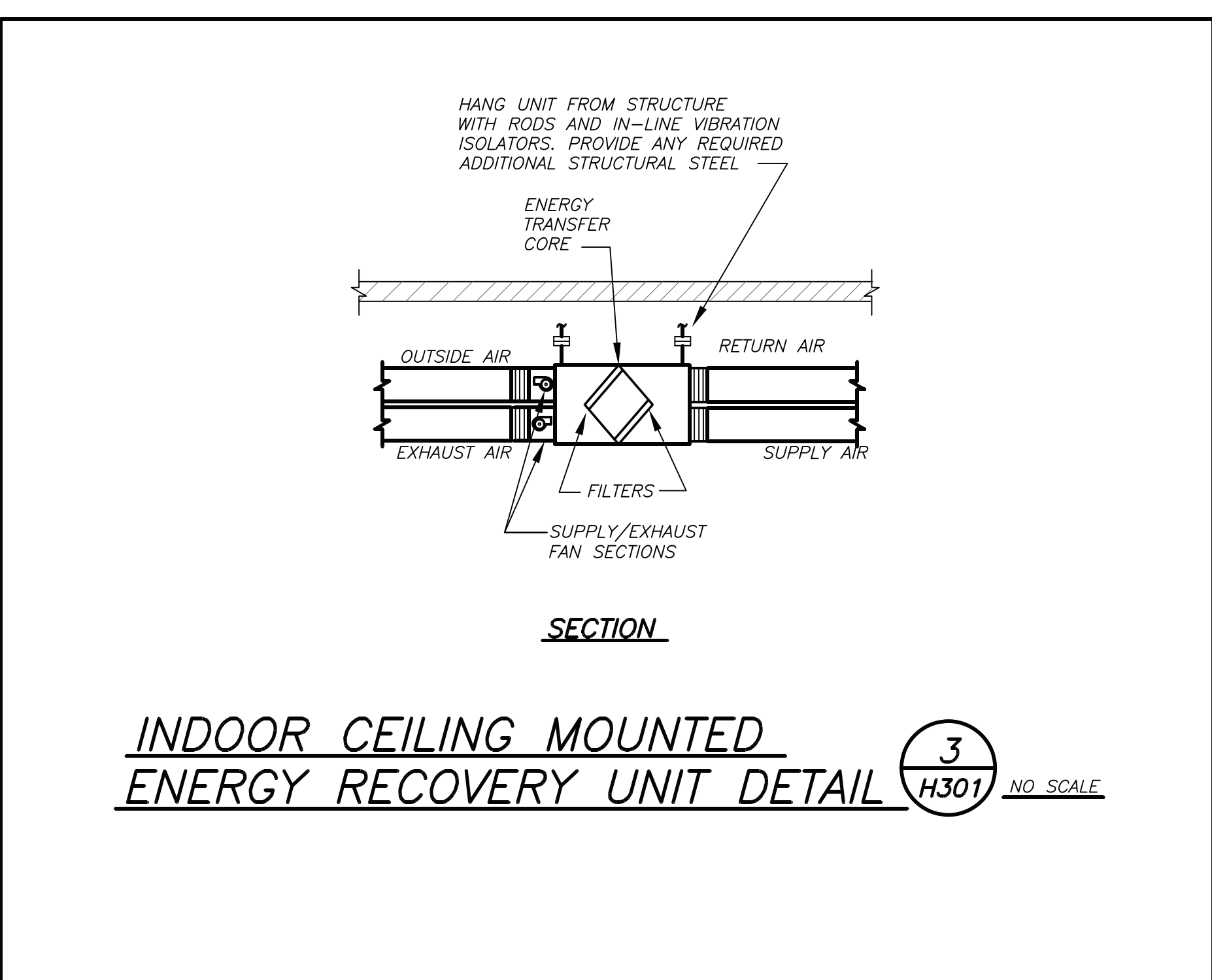
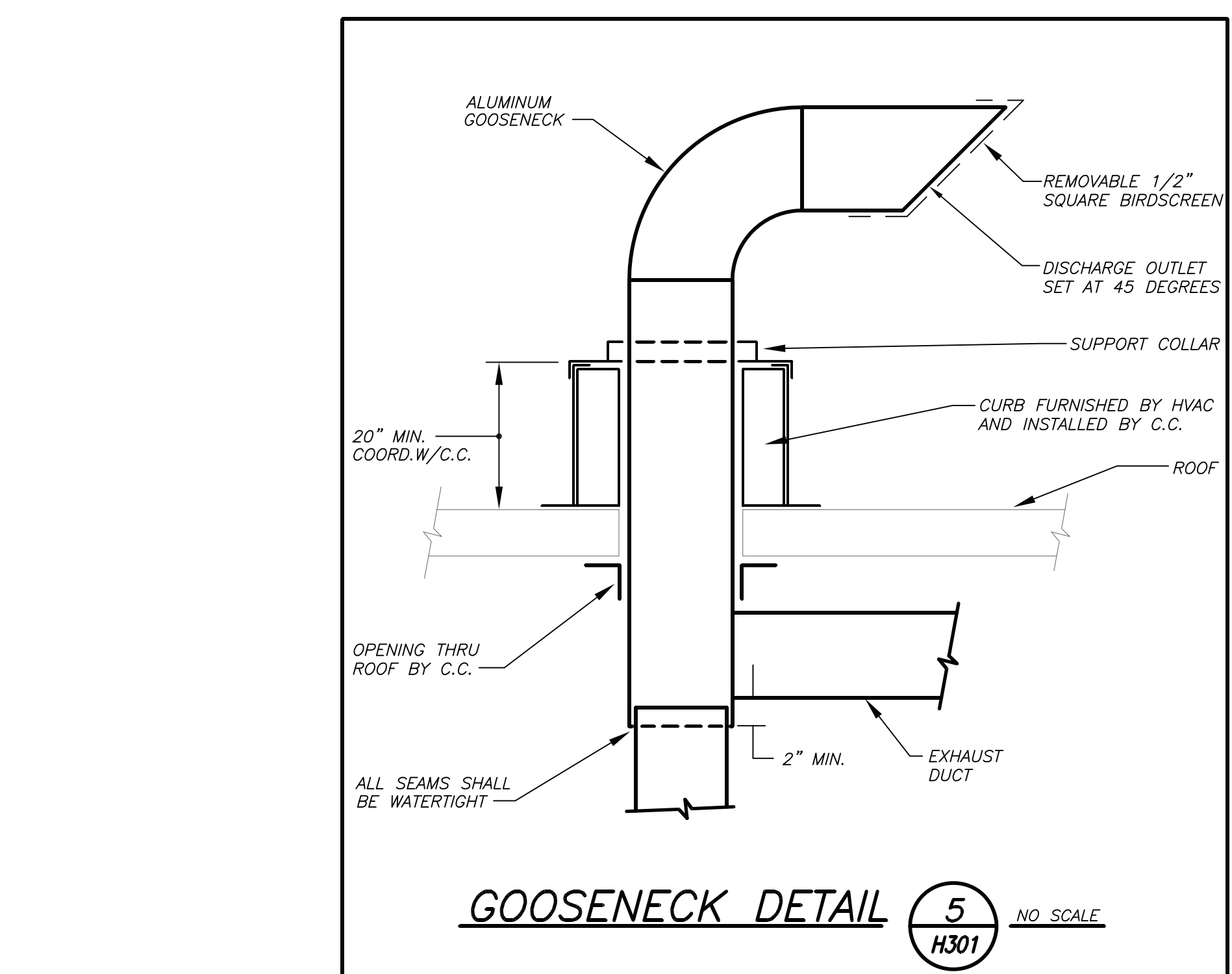
**NOTES**  
 (1) AS MANUFACTURED BY "NATIONWIDE COILS".  
 (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
 (3) REFRIGERANT R-410A.

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A+B)+1000#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)+(A+D)+CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE GPM+CFM	J MINIMUM EXHAUST AIR FLOW RATE A+E+CFM
STAGE	STAGES, STUDIOS	2700	70	10	0.06	0	189	2052	0.8	2565	0
AUDITORIUM	AUDITORIUM SEATING AREA	9200	150	5	0.06	0	1380	7452	0.8	9315	0
LOBBY	LOBBIES	1000	150	5	0.06	0	150	810	0.8	1013	0
BOY'S BATHROOM	TOILETS - PUBLIC	250	5 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	250
GIRL'S BATHROOM	TOILETS - PUBLIC	250	5 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	250



SCHEDULE OF CONDENSING UNITS														
MARK	LOCATION	MODEL No. (1)	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	EER	COMPRES. DATA TYPE	COND. FAN DATA TYPE	ELECTRICAL DATA MCA	MOP	ELECTRICAL SERVICE	PHYSICAL DATA DIMENSION/WEIGHT (L"x"W"x"H")/(LBS)	REMARKS		
(EVL)	ROOFTOP	ARUM241BTE5	233	243	10.4	SCROLL	2 PROPELLER	63	80	208/3/60	49x30x67/700	REFER TO (2)(3)(4)(6)(7)		
(EVL)	ROOFTOP	ARUM096BTE5	96	108	13.50	SCROLL	2 PROPELLER	29	40	208/3/60	49x30x67/550	REFER TO (2)(3)(5)(6)(7)		

**NOTES**  
 (1) AS MANUFACTURED BY "LG."  
 (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
 (3) DESIGN AIR CONDITIONS: SUMMER: OA (94°F/75°F) RA (77°F/65°F); WINTER: OA (5°F/3°F) RA (20°F/55°F).  
 (4) SECURE UNIT ON DUNNAGE PROVIDED BY GC. PROVIDE CONTINUOUS NEOPRENE VIBRATION ISOLATION PADS, DISCONNECT SWITCH, AND PHASE PROTECTION.  
 (5) SECURE UNIT ON CONCRETE PAD PROVIDED BY GC. PROVIDE DISCONNECT SWITCH AND PHASE PROTECTION.  
 (6) SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATION.  
 (7) PROVIDE EEV AND AHU COMMUNICATION KIT.



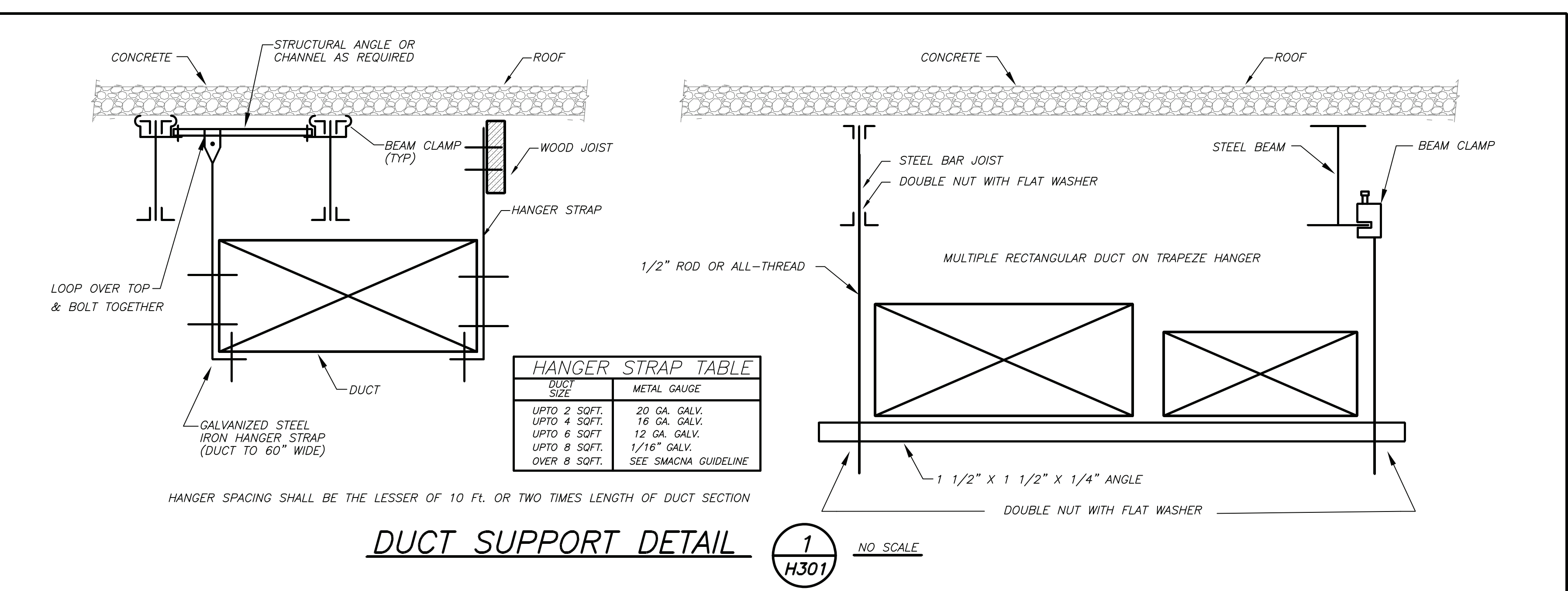
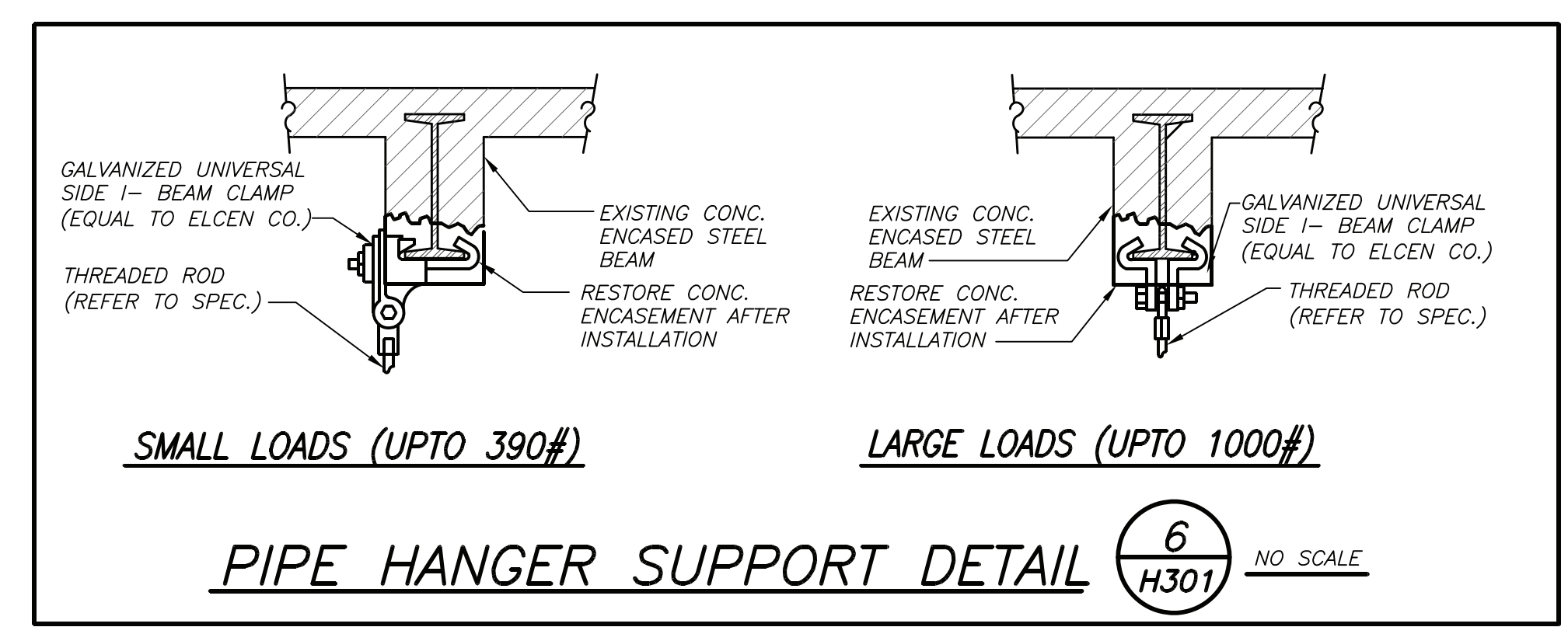
SCHEDULE OF REGISTERS AND DIFFUSERS									
MARK	TYPE	SERVICE	MODEL No. (1)	NOMINAL FACE SIZE	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS	
(A)	SURFACE MOUNTED	SUPPLY	ECO-20 (1)	36X8/VARIES	TWO-WAY	OPOSED BLADE	PER ARCH.	REFER TO (3)(4)(5)(6)(8)	
(B)	SURFACE MOUNTED	VARIES	DESIGN B (2)	VARIES	-	OPOSED BLADE	PER ARCH.	REFER TO (4)(7)(8)(9)	
(C)	SURFACE MOUNTED	RETURN	35 (1)	VARIES	-	OPOSED BLADE	PER ARCH.	REFER TO (3)(4)(5)(6)(9)	
(D)	SURFACE MOUNTED	SUPPLY	PARAGON (1)	24X24	FOUR-WAY	OPOSED BLADE	PER ARCH.	REFER TO (3)(4)(5)(6)(8)	
(E)	IN LINE MOUNTED	RETURN/EXHAUST	HD30 (1)	36X24	-	OPOSED BLADE	PER ARCH.	REFER TO (3)(4)(5)(6)(9)	

**NOTES**  
 (1) AS MANUFACTURED BY "ANEMOSTAT".  
 (2) AS MANUFACTURED BY "A-J MANUFACTURING COMPANY".  
 (3) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
 (4) PROVIDE CABLE OPERATED DAMPERS IN UN-ACCESSIBLE AREAS.  
 (5) AIR OUTLET TO BE OF STAINLESS STEEL CONSTRUCTION.  
 (6) COORDINATE AIR OUTLET TYPE WITH CEILING CONSTRUCTION.  
 (7) GRILLES TO BE PROVIDED AND INSTALLED BY GC.

SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 700 fpm)				RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)			
50 TO 135	100 TO 245	246 TO 380	381 TO 551	50 TO 149	150 TO 249	250 TO 399	400 TO 599
6" x 8"	8" x 10"	10" x 12"	12" x 14"	6" x 8"	8" x 10"	10" x 12"	12" x 14"

SCHEDULE OF VRF INDOOR UNITS									
MARK	MODEL No. (1)	SUPPLY FAN DATA CFM HIGH	MCA	MOP	ELECTRIC SERVICE	TOTAL COOL/HEAT MBH	DIMENSION/WEIGHT W (IN.) D (IN.) H (IN.) LBS	REMARKS	
(EVL)	ARNU963BB4	2,700	6.5	15	208/1/60	95.9/107.5	69 29 19 225	REFER TO (1)(2)(3)(4)	

**NOTES**  
 (1) AS MANUFACTURED BY "LG."  
 (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
 (3) BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A  
 (4) PROVIDE CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH  
 (5) PROVIDE MOUNTING HARDWARE, VIBRATION ISOLATORS, DISCONNECT AND HARDWIRED REMOTE WALL MOUNTED CONTROLLER/THERMOSTAT.



PLOT DATE: February 11, 2021 - 2:49pm

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S.E.D. CONTROL NUMBER:  
 66-23-00-01-0-202-015

BID SCHEDULE #

PROJECT: YONKERS SCHOOL DISTRICT LINCOLN HIGH SCHOOL AUDITORIUM UPGRADES & RELATED WORK 375 BEECHARD AVENUE, YONKERS, NY 10594

DRAWING TITLE: SCHEDULES & DETAILS

02-12-2021 BID  
 04-09-2020 PROGRESS DRAWINGS  
 01-24-2020 SCHEMATIC DESIGN  
 DATE ISSUED TO

SHEET SIZE: 30"x42"  
 SCALE: AS NOTED  
 DRAWING NO.: H301

DRAWN BY: F & D  
 FILE NO.: 19356.00