

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-7)

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Gallery 501B	Corridor	0	0	0.06	0	2815	0	169	0.8	212	0
Office 4	Office space	5	5	0.06	0	105	1	12	0.8	15	0
Office 3	Office space	5	5	0.06	0	105	1	12	0.8	15	0
Corridor - F	Corridor	0	0	0.06	0	420	0	26	0.8	33	0
Corridor - L	Corridor	0	0	0.06	0	179	0	11	0.8	14	0
Student Learning Exchange 168-C	Media center	25	10	0.12	0	1692	43	634	0.8	793	0
Quiet Room 107	Office space	5	5	0.06	0	48	1	8	0.8	10	0
Office 1	Office space	5	5	0.06	0	70	1	10	0.8	13	0
Office 2	Office space	5	5	0.06	0	70	1	10	0.8	13	0

MECHANICAL CODE VENTILATION CALCULATIONS - (DOAS-8)

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
College Conf 114	Conference room	50	5	0.06	0	430	22	136	0.8	170	0
Corridor E	Corridor	0	0	0.06	0	2583	0	155	0.8	194	0
Office 8	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 13	Office space	5	5	0.06	0	82	1	10	0.8	13	0
Office 15	Office space	5	5	0.06	0	82	1	10	0.8	13	0
Office 14	Office space	5	5	0.06	0	82	1	10	0.8	13	0
Office 12	Office space	5	5	0.06	0	144	1	14	0.8	18	0
Office 9	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 11	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 17	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 18	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 16	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Office 7	Office space	5	5	0.06	0	92	1	11	0.8	14	0
Office 10	Office space	5	5	0.06	0	94	1	11	0.8	14	0
Student Learning Exchange 168-B	Media center	25	10	0.12	0	1782	45	664	0.8	830	0
Office 5	Office space	5	5	0.06	0	105	1	12	0.8	15	0
Office 6	Office space	5	5	0.06	0	107	1	12	0.8	15	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-9)

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Amphitheater 108	Lecture classroom	65	7.5	0.06	0	1502	98	826	0.8	1033	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-10)

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Corridor C	Corridor	0	0	0.06	0	4467	0	269	0.8	337	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-11)

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Cafeteria 505	Cafeteria, fast food	100	7.5	0.18	0	4811	482	4481	0.8	5602	0

MECHANICAL CODE VENTILATION CALCULATIONS - (HVAC-12)

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Office 20	Office space	5	5	0.06	0	95	1	11	0.8	14	0
St 118	Storage room	0	0	0.12	0	176	0	22	0.8	28	0
St. 119	Storage room	0	0	0.12	0	223	0	27	0.8	34	0
Student Learning Exchange 168-A	Media center	25	10	0.12	0	3940	99	1463	0.8	1829	0
Tech. 165	Storage room	0	0	0.12	0	468	0	57	0.8	72	0
Corridor P	Corridor	0	0	0.06	0	757	0	46	0.8	58	0
Corridor Q	Corridor	0	0	0.06	0	757	0	46	0.8	58	0
Pysch. 237	Office space	5	5	0.06	0	164	1	15	0.8	19	0
Faculty 220	Office space	5	5	0.06	0	330	2	30	0.8	38	0
Tech. 242	Office space	5	5	0.06	0	211	2	23	0.8	29	0
Faculty 241	Office space	5	5	0.06	0	114	1	12	0.8	15	0
Corridor B	Corridor	0	0	0.06	0	1389	0	84	0.8	105	0
Student Learning Exchange 165-Light Well	Media center	25	10	0.12	0	780	20	294	0.8	368	0
Chemistry 225	Science Laboratories	25	10	0.18	1	1225	31	531	0.8	664	1225
Chemistry 229	Science Laboratories	25	10	0.18	1	1549	39	669	0.8	837	1549
Chem. Stor. 236	Storage room	0	0	0.12	0	169	0	21	0.8	27	0
Support 228	Office space	5	5	0.06	0	185	1	17	0.8	22	0
Math/Tech 227	Office space	5	5	0.06	0	321	2	30	0.8	38	0
Social Studies 221	Classroom (age 9 plus)	35	10	0.12	0	910	32	430	0.8	538	0
Social Studies 226	Classroom (age 9 plus)	35	10	0.12	0	899	32	428	0.8	535	0
Support 222	Office space	5	5	0.06	0	322	2	30	0.8	38	0
Support 223	Office space	5	5	0.06	0	187	1	17	0.8	22	0
Storage 166	Storage room	0	0	0.12	0	45	0	6	0.8	8	0
Storage 167	Storage room	0	0	0.12	0	46	0	6	0.8	8	0

MECHANICAL CODE VENTILATION CALCULATIONS - (FIRST FLOOR - CEILING MOUNTED UNIT VENTILATORS)

Room Number	Unit ID	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Classroom 117	UV-1A	Classroom (age 9 plus)	35	10	0.12	0	938	33	443	0.8	554	0
Office 19	UV-1B	Office space	5	5	0.06	0	98	1	11	0.8	14	0
Tech 164	UV-1B	Classroom (age 9 plus)	35	10	0.12	0	763	27	362	0.8	453	0
Flex Space 112	UV-1C	Classroom (age 9 plus)	35	10	0.12	0	527	19	254	0.8	318	0
Writing Lab 116	UV-1D	Classroom (age 9 plus)	35	10	0.12	0	384	14	187	0.8	234	0
Math Lab 115	UV-1E	Classroom (age 9 plus)	35	10	0.12	0	317	12	159	0.8	199	0

MECHANICAL CODE VENTILATION CALCULATIONS - (FIRST FLOOR - FLOOR MOUNTED UNIT VENTILATORS)

Room Number	Unit ID	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Fab Lab/Photography 120	UV-1F	Classroom (age 9 plus)	35	10	0.12	0	982	35	468	0.9	520	0
Robotics/Engineering 121	UV-1G	Classroom (age 9 plus)	35	10	0.12	0	1107	39	523	0.9	582	0
St 120A	UV-1F	Storage room	0	0	0.12	0	204	0	25	0.9	28	0
St 121A	UV-1G	Storage room	0	0	0.12	0	126	0	16	0.9	18	0
Science Research Lab 113	UV-1H	Classroom (age 9 plus)	35	10	0.12	0	890	32	427	0.9	475	0

MECHANICAL CODE VENTILATION CALCULATIONS - (SECOND FLOOR - CEILING MOUNTED UNIT VENTILATORS)

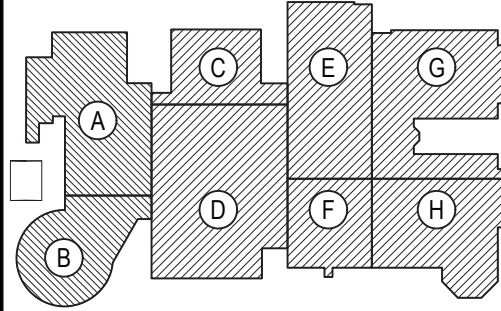
Room Number	Unit ID	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Chemistry 229	UV-2A & UV-2B	Science Laboratories	25	10	0.18	1	1462	37	634	0.8	793	1462
Math/Tech 227	UV-2C	Office space	5	5	0.06	0	318	2	30	0.8	38	0
Social Studies 221	UV-2E	Classroom (age 9 plus)	35	10	0.12	0	858	31	413	0.8	517	0
Social Studies 226	UV-2D	Classroom (age 9 plus)	35	10	0.12	0	858	31	413	0.8	517	0
Support 222	UV-2F	Office space	5	5	0.06	0	329	2	30	0.8	38	0
Support 223	UV-2F	Office space	5	5	0.06	0	181	1	16	0.8	20	0
Support 228	UV-2C	Office space	5	5	0.06	0	126	1	13	0.8	17	0

MECHANICAL CODE VENTILATION CALCULATIONS - (FIRST FLOOR - CEILING MOUNTED FAN COIL UNITS)

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	Exhaust Air CFM Required
Breakout 500	Conference/meeting	50	5	0.06	0	169	9	56	0.8	70	0
Breakout 501	Conference/meeting	50	5	0.06	0	170	9	56	0.8	70	0

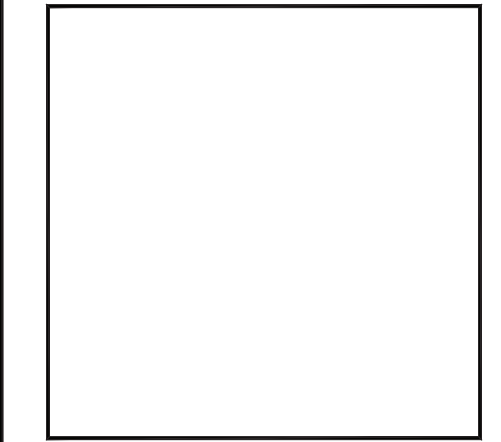
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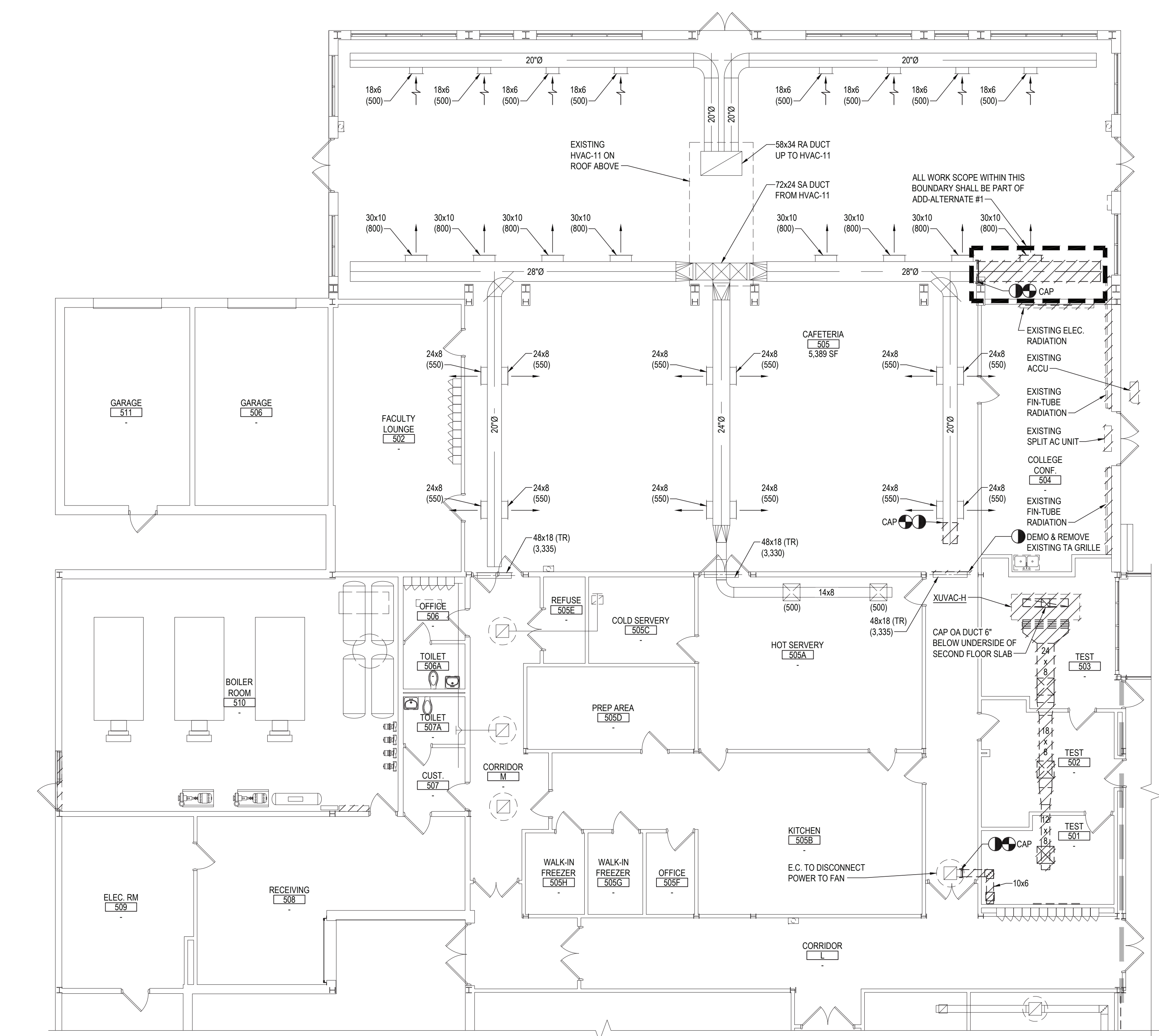
KEY PLAN
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PROJECT
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GENERAL NOTES, LEGENDS
AND SYMBOLS (2 OF 2)

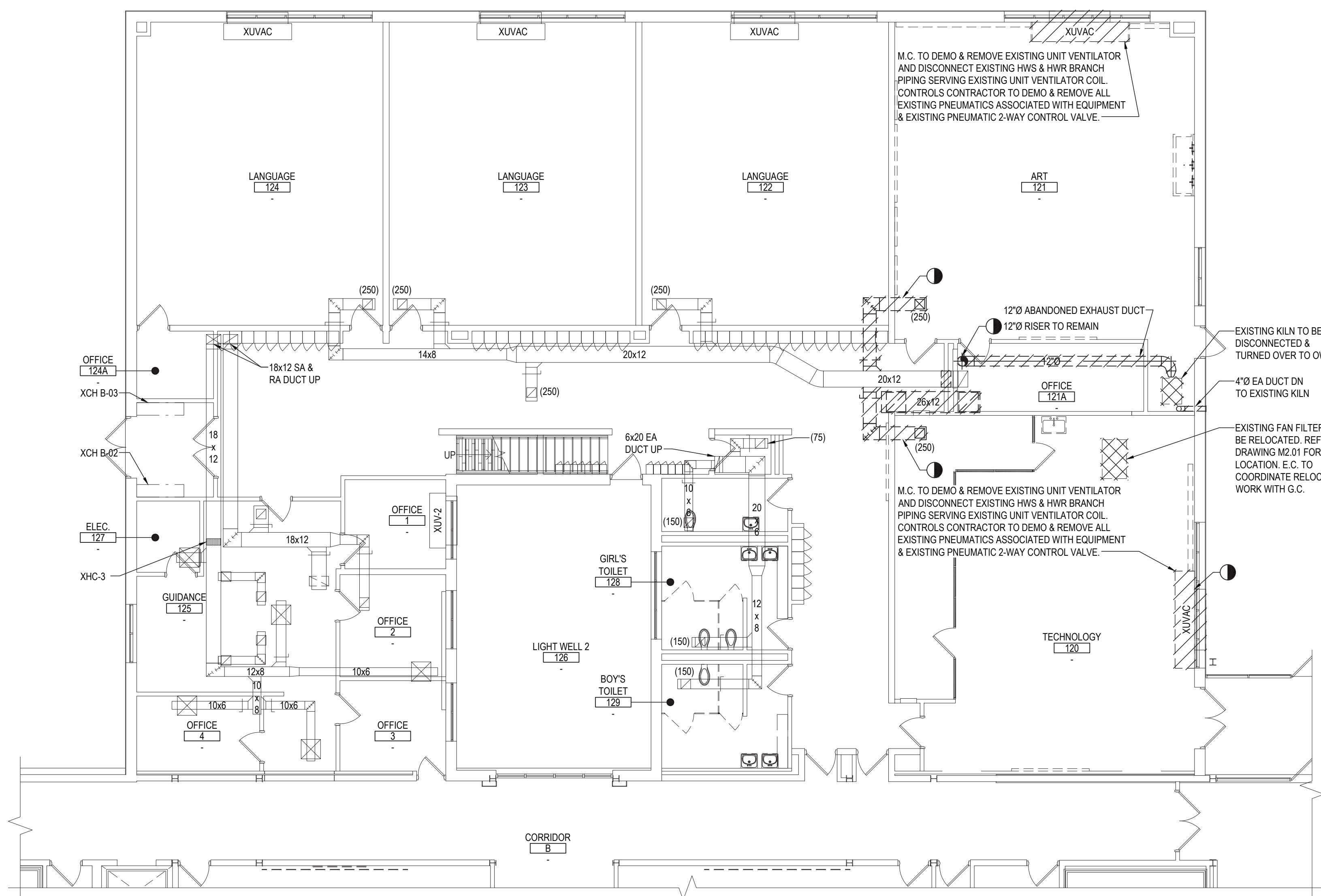


SED No: 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR UFSD
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: GENERAL NOTES, LEGENDS AND SYMBOLS (2 OF 2)
SCALE: AS NOTED
DATE: 7/15/22
BID PICK-UP:
FILE No: 21-274C

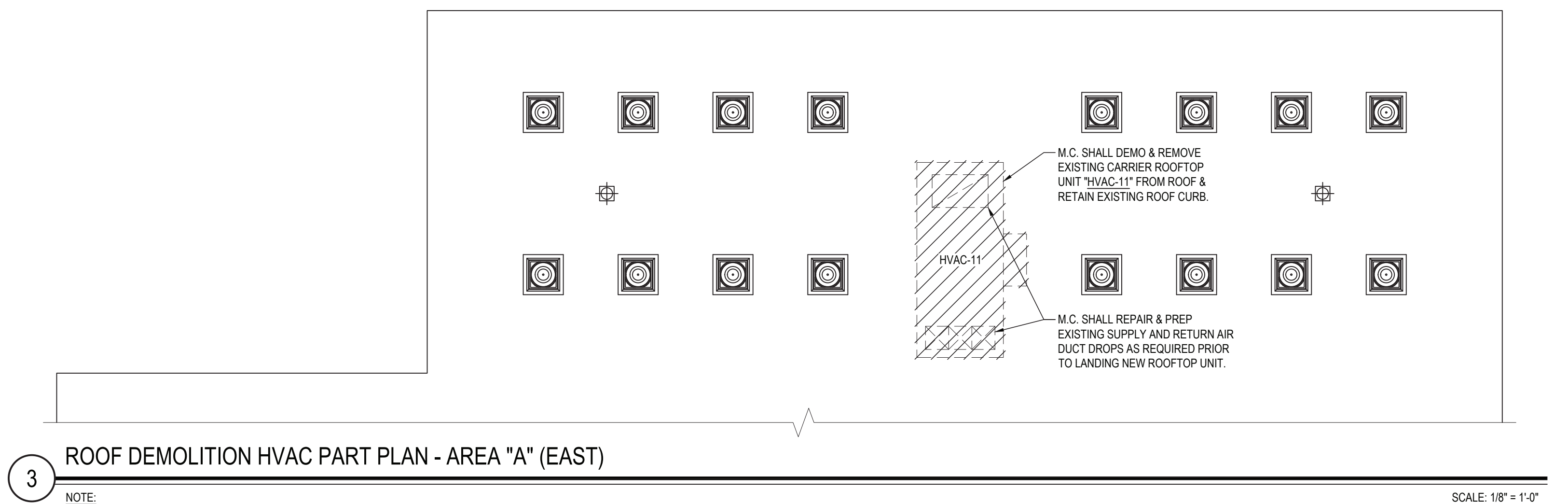
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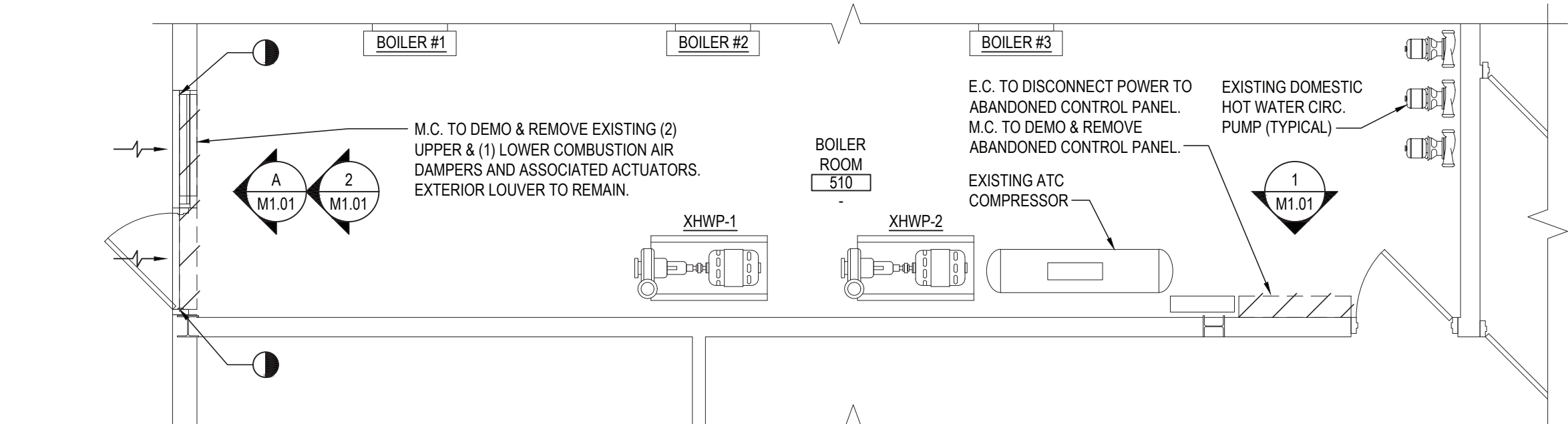
1 GROUND FLOOR DEMOLITION HVAC PART PLAN - AREA "A"
NOTE: SCALE: 1/8" = 1'-0"



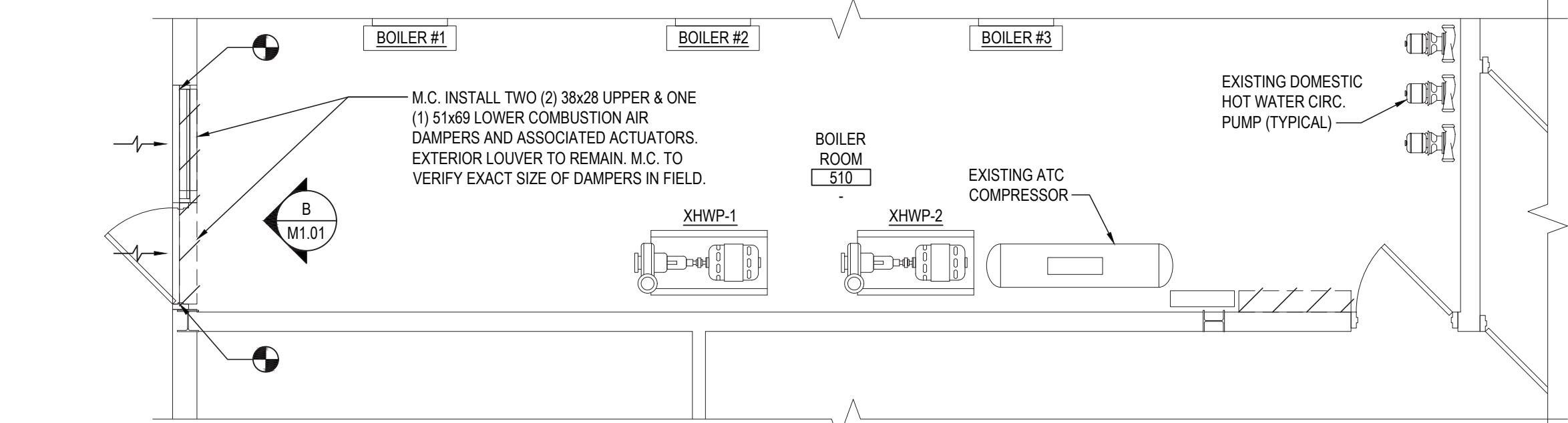
2 GROUND FLOOR DEMOLITION HVAC PART PLAN - AREA "C"
NOTE: SCALE: 1/8" = 1'-0"



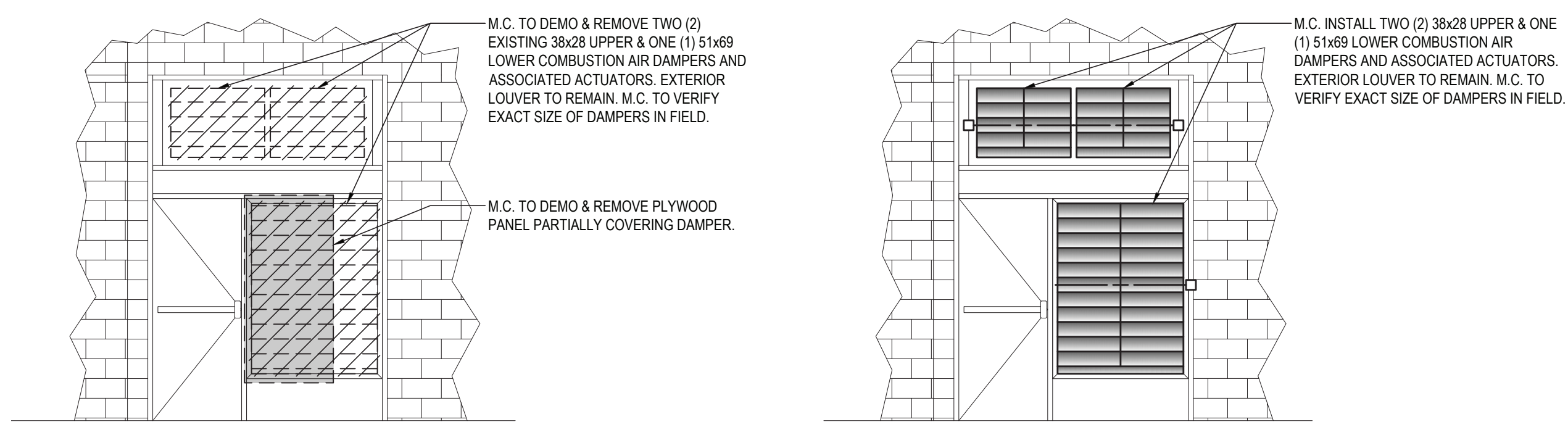
3 ROOF DEMOLITION HVAC PART PLAN - AREA "A" (EAST)
NOTE: SCALE: 1/8" = 1'-0"



4 GROUND FLOOR DEMOLITION (ENLARGED BOILER ROOM) HVAC PART PLAN - AREA "A"
NOTE: SCALE: 1/4" = 1'-0"



5 GROUND FLOOR PROPOSED (ENLARGED BOILER ROOM) HVAC PART PLAN - AREA "A"
NOTE: SCALE: 1/4" = 1'-0"

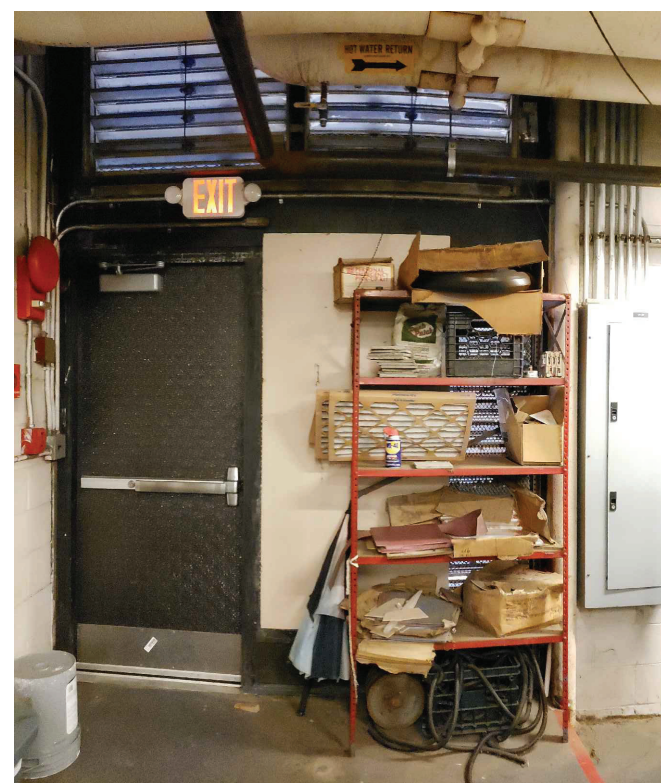


A ELEVATION - DEMOLITION
NOTE: SCALE: 1/4" = 1'-0"

B ELEVATION - PROPOSED
NOTE: SCALE: 1/4" = 1'-0"



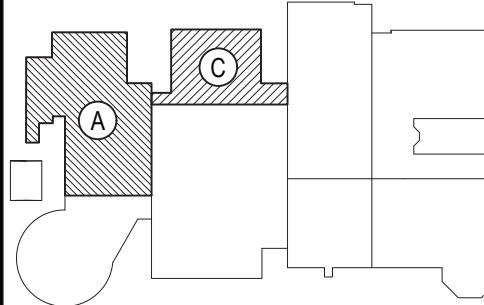
PANEL PHOTO DETAIL - 1



DAMPER PHOTO DETAIL - 2

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KEY PLAN
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PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510
DWG TITLE
DEMOLITION HVAC PART PLANS - AREA A & C

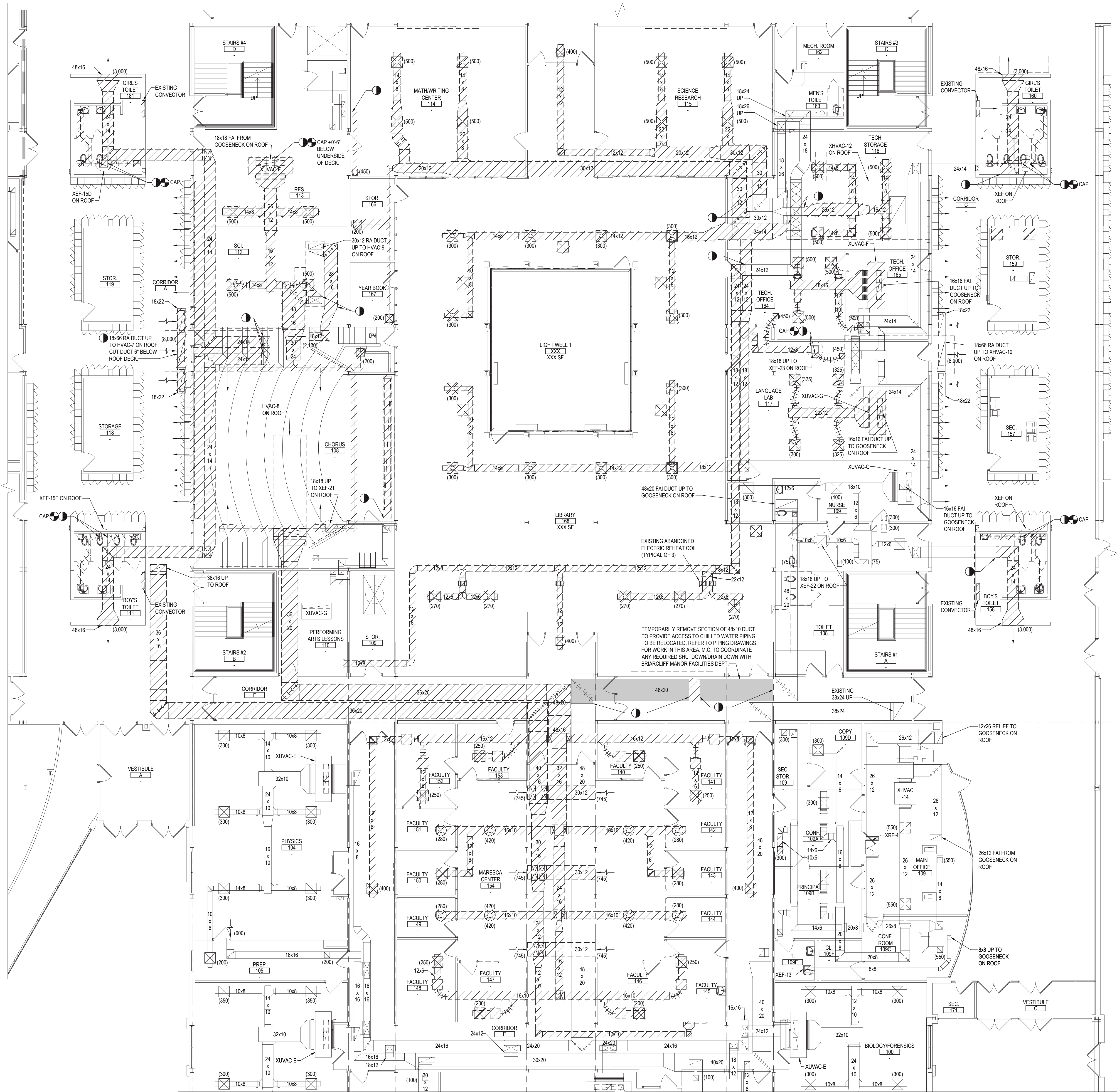
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SED No: 66-14-02-02-0-004-023
DISTRICT: BRIARCLIFF MANOR UFSD
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: DEMOLITION HVAC PART PLANS AREA A & C
SCALE: AS NOTED
DATE: 7/15/22
BID PICK-UP:
FILE No: 21-274C

M1.01 HSMS



1 GROUND FLOOR DEMOLITION HVAC PART PLAN - AREA "D"

NOTE: SCALE: 1/8" = 1'-0"

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DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: DEMOLITION HVAC PART PLANS - AREA D

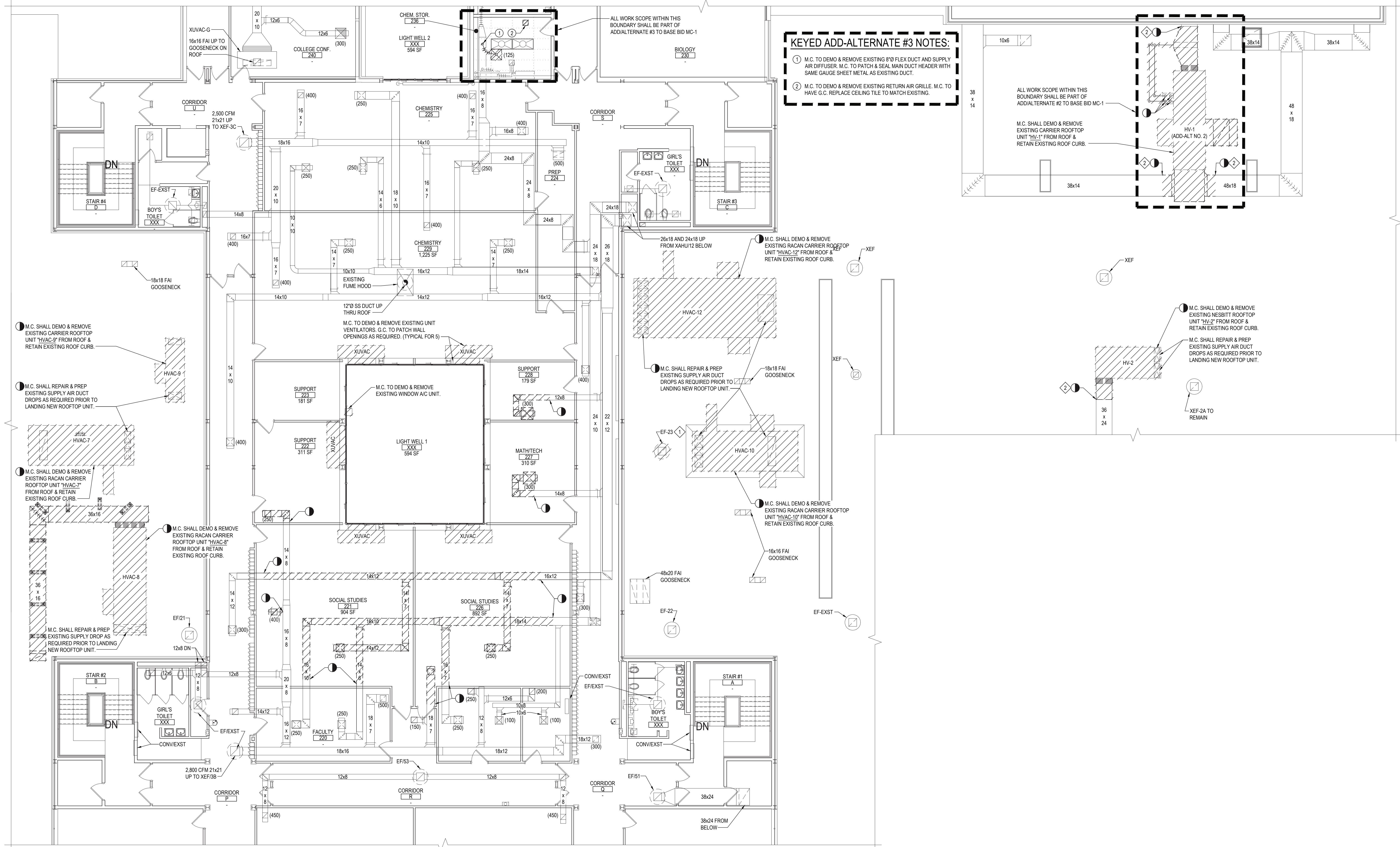
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BID PICK-UP:

FILE No: 21-274C

M1.02 HSMS



KEYED ADD-ALTERNATE #3 NOTES:

① M.C. TO DEMO & REMOVE EXISTING 8"Ø FLEX DUCT AND SUPPLY AIR DIFFUSER. M.C. TO PATCH & SEAL MAIN DUCT HEADER WITH SAME GAUGE SHEET METAL AS EXISTING DUCT.

② M.C. TO DEMO & REMOVE EXISTING RETURN AIR GRILLE. M.C. TO HAVE G.C. REPLACE CEILING TILE TO MATCH EXISTING.

1 SECOND FLOOR AND ROOF DEMOLITION HVAC PART PLAN - AREA "D & E"

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

MECHANICAL KEYED DEMOLITION NOTES:

- ① DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING ROOF CURB.
- ② M.C. SHALL REPAIR & PREP EXISTING DUCT FOR CONNECTION TO NEW DUCTWORK.

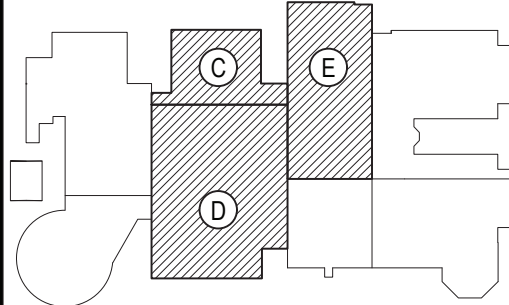
PRE-CONSTRUCTION NOTE:

M.C. TO VERIFY EXISTING VOLTS, PHASE & HERTZ OF EXISTING FANS AND COORDINATE SUBMITTALS WITH EXISTING FIELD VERIFICATIONS. M.C. TO FIELD VERIFY EXISTING CURB DIMENSIONS PRIOR TO REMOVAL OF EXISTING CURBS.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE
SECOND FLOOR AND ROOF HVAC
DEMOLITION PART PLAN - AREA C, D & E

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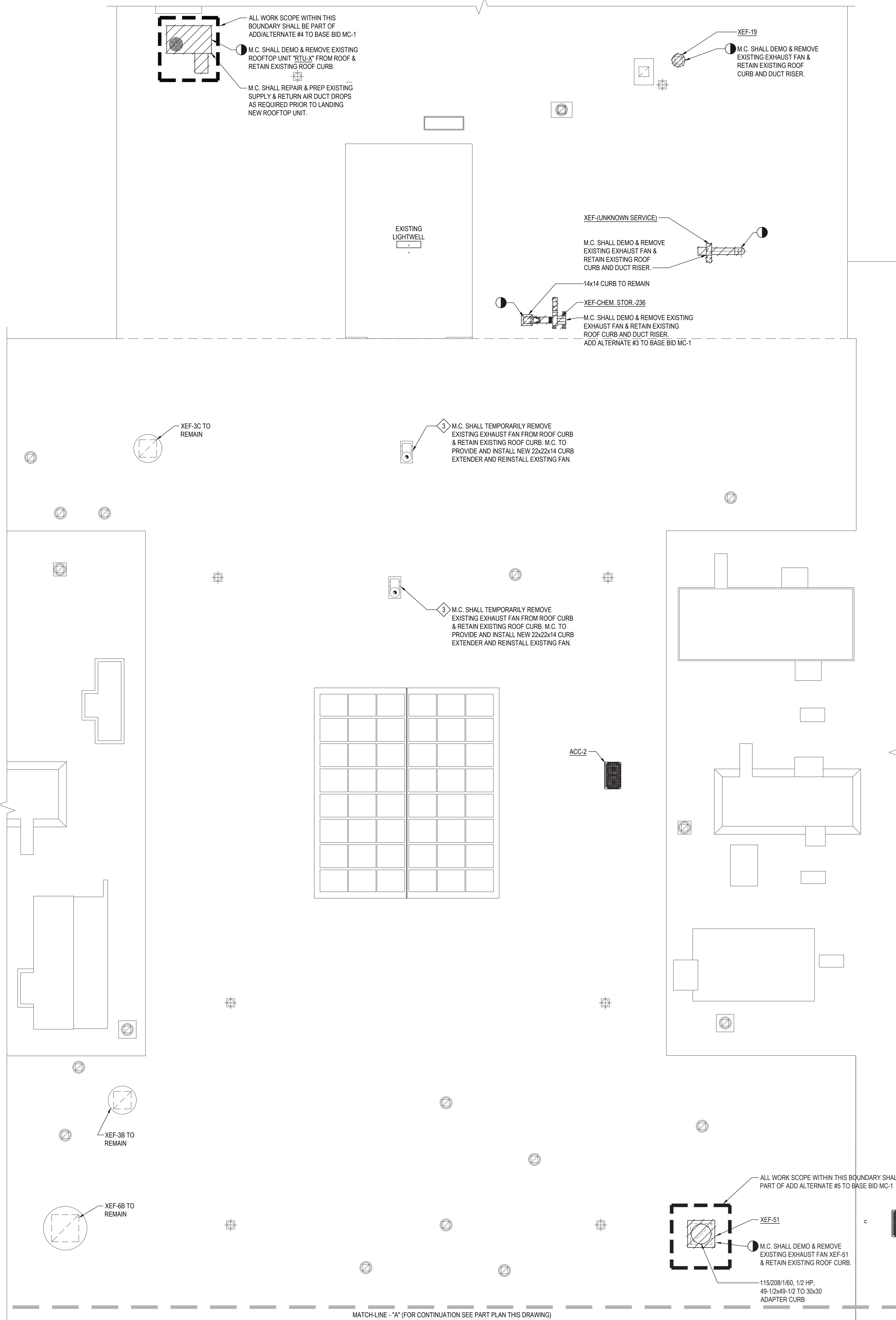
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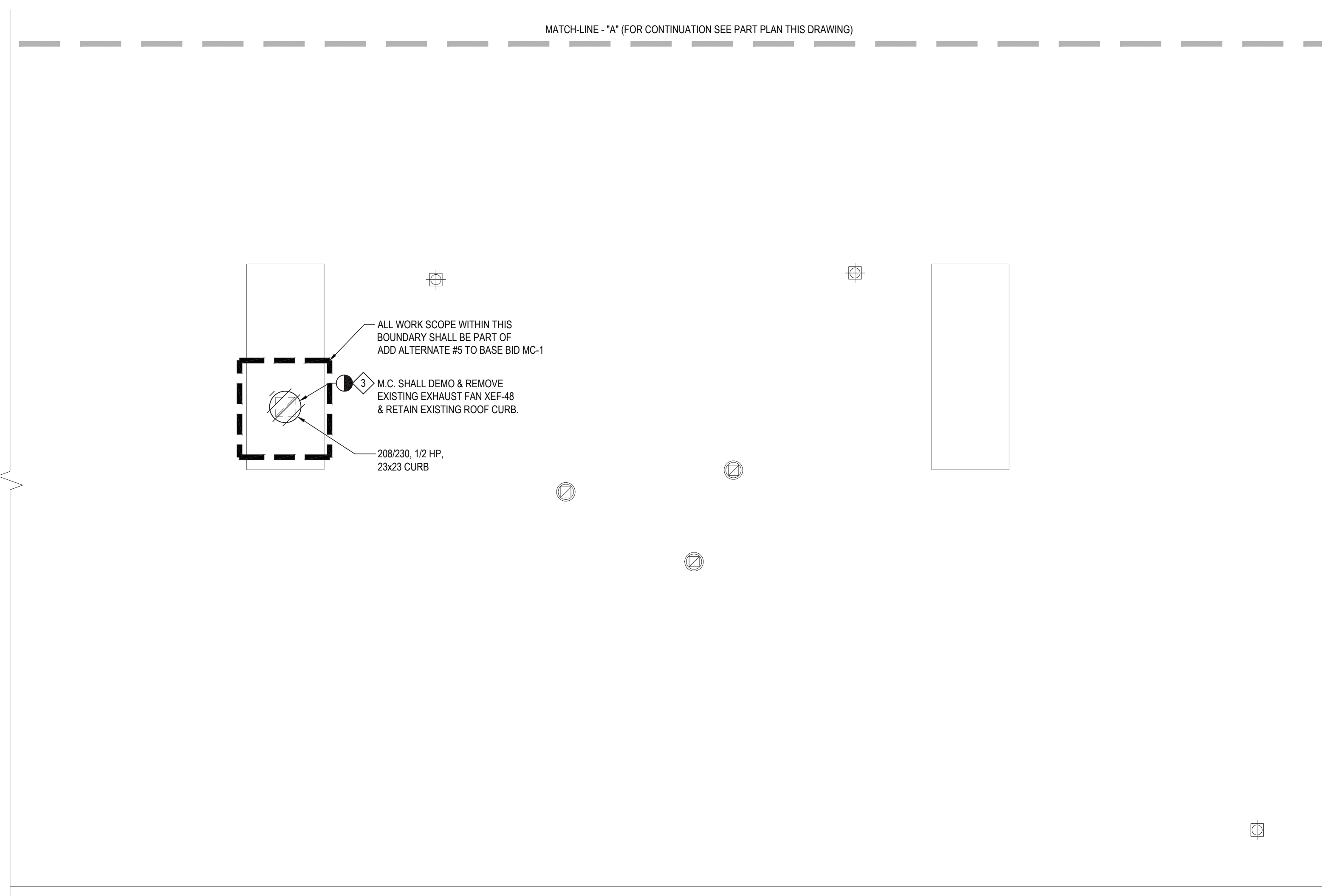
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SED No: 66-14-02-0-004-023
DISTRICT: BRIARCLIFF MANOR UFSD
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: 2ND FLOOR & ROOF HVAC HVAC DEMO PART PLAN - C, D & E
SCALE: AS NOTED
DATE: 7/15/22
BID PICK-UP:
FILE No: 21-274C

M1.03 HSMS



1 SECOND FLOOR AND ROOF DEMOLITION HVAC PART PLAN - AREA "D & E"



2 SECOND FLOOR AND ROOF DEMOLITION HVAC PART PLAN - AREA "D"

MECHANICAL KEYED DEMOLITION NOTES:

- 1 DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DAMPER SHOWN. E.C. SHALL DISCONNECT FAN PRIOR TO REMOVAL. RETAIN EXISTING ROOF CURB.
- 2 M.C. SHALL REPAIR & PREP EXISTING DUCT FOR CONNECTION TO NEW DUCTWORK.
- 3 E.C. TO SAFE OFF EXHAUST FAN CIRCUIT AND EXTEND POWER WIRING AND CONDUIT AS REQUIRED. M.C. TO EXTEND CONTROL WIRING AS REQUIRED. G.C. TO BE PRESENT WHILE M.C. & E.C. ARE PERFORMING THEIR SCOPE OF WORK.

PRE-CONSTRUCTION NOTE:

M.C. TO VERIFY EXISTING VOLTS, PHASE & HERTZ OF EXISTING FANS AND COORDINATE SUBMITTALS WITH EXISTING FIELD VERIFICATIONS. M.C. TO FIELD VERIFY EXISTING CURB DIMENSIONS PRIOR TO REMOVAL OF EXISTING CURBS.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

SECOND FLOOR AND ROOF HVAC
DEMOLITION PART PLAN - AREA C & D

DRAWING BY: R.D.P.
CHECK BY: F.S.

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SED No: 66-14-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: 2ND FLOOR, ROOF HVAC/HVAC
DEMO PART PLAN - C & D

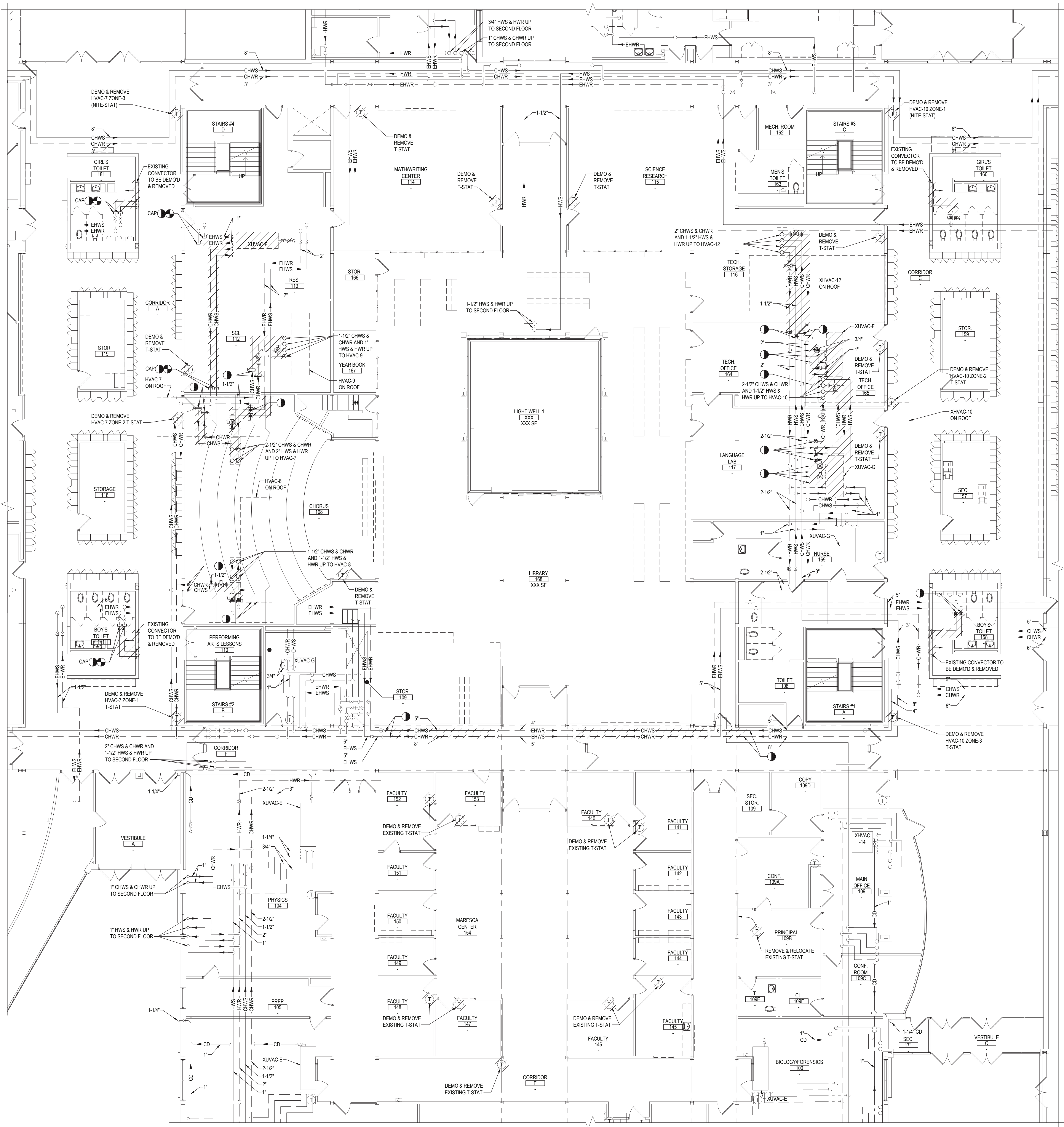
SCALE: AS NOTED

DATE: 7/15/22

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FILE No: 21-274C

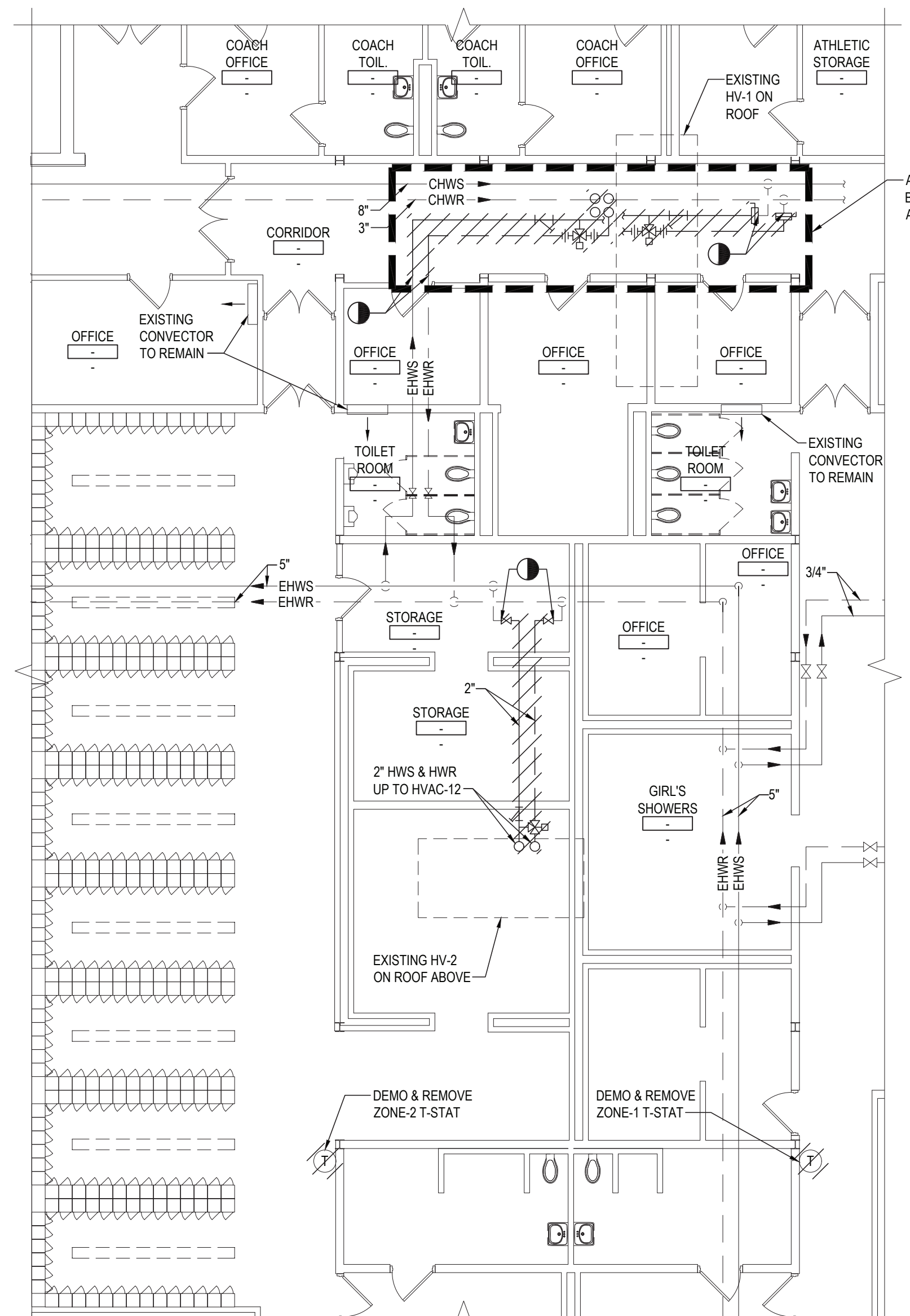
M1.04 **HSMS**



1 GROUND FLOOR DEMOLITION PIPING PART PLAN - AREA "D"

NOTE:

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



1 GROUND FLOOR DEMOLITION PIPING PART PLAN - AREA "E"

NOTE:

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

ALL WORK SCOPE WITHIN THIS BOUNDARY SHALL BE PART OF ADD-ALTERNATE #3

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

DEMOLITION PIPING PART PLANS - AREA D & E

DRAWING BY: R.D.P.
CHECK BY: F.S.

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SED No: 66-14-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: DEMOLITION PIPING PART PLANS - AREA D & E

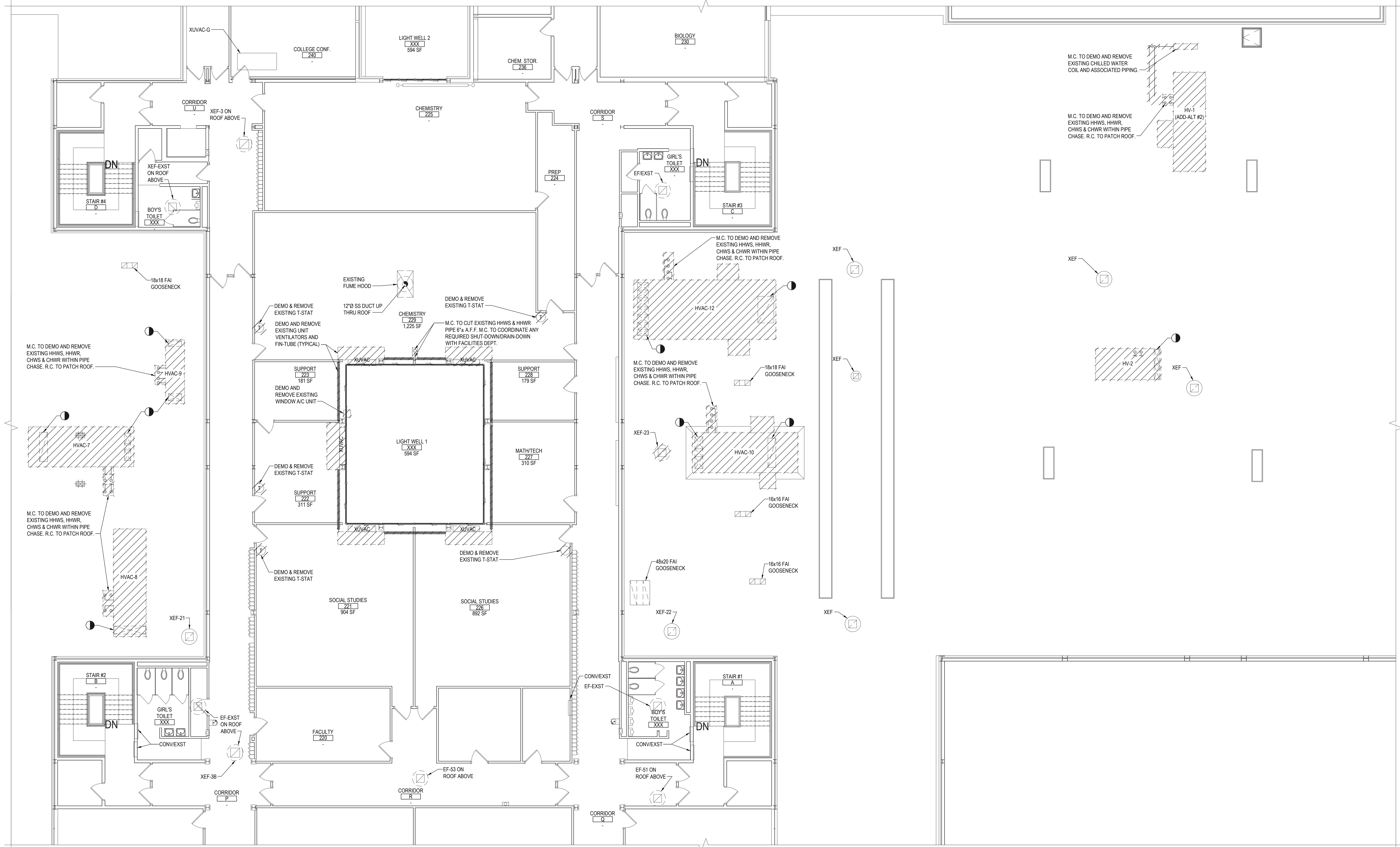
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DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M1.06 HSMS

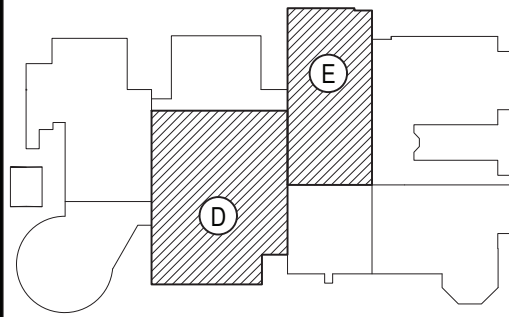


1 SECOND FLOOR AND ROOF DEMOLITION PIPING PART PLAN - AREA "D & E"

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

REV.	DATE	ITEM

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KEY PLAN
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PROJECT
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PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510
DWG TITLE
SECOND FLOOR AND ROOF DEMOLITION PIPING PART PLAN - AREA D & E

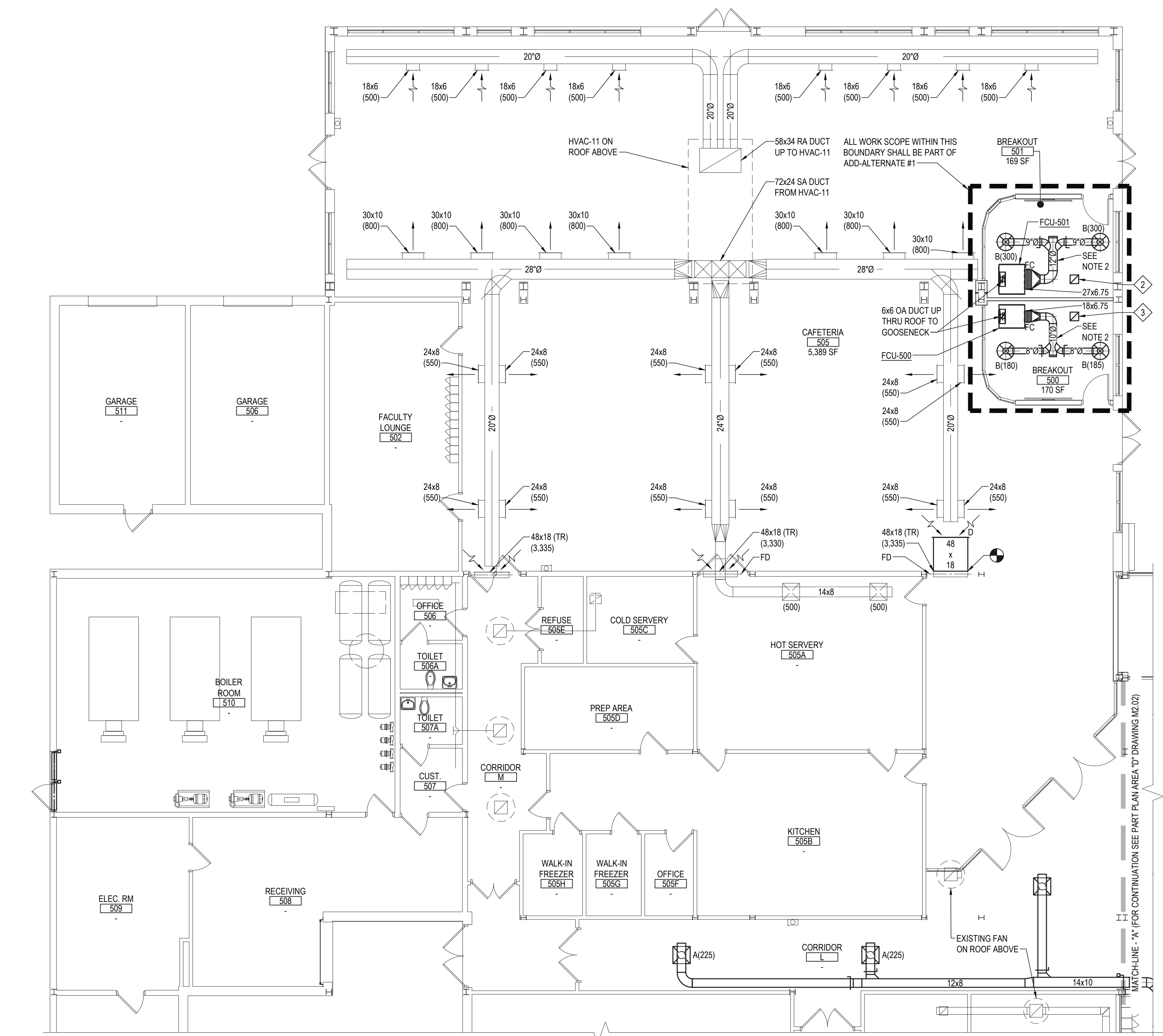
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SED No: 66-14-02-0-004-023
DISTRICT: BRIARCLIFF MANOR UFSD
PROJECT: PHASE 2 BOND IMPROVEMENTS
DWG TITLE: DEMOLITION ROOF PIPING PART PLAN - AREA D & E
SCALE: AS NOTED
DATE: 7/15/22
BID PICK-UP:
FILE No: 21-274C

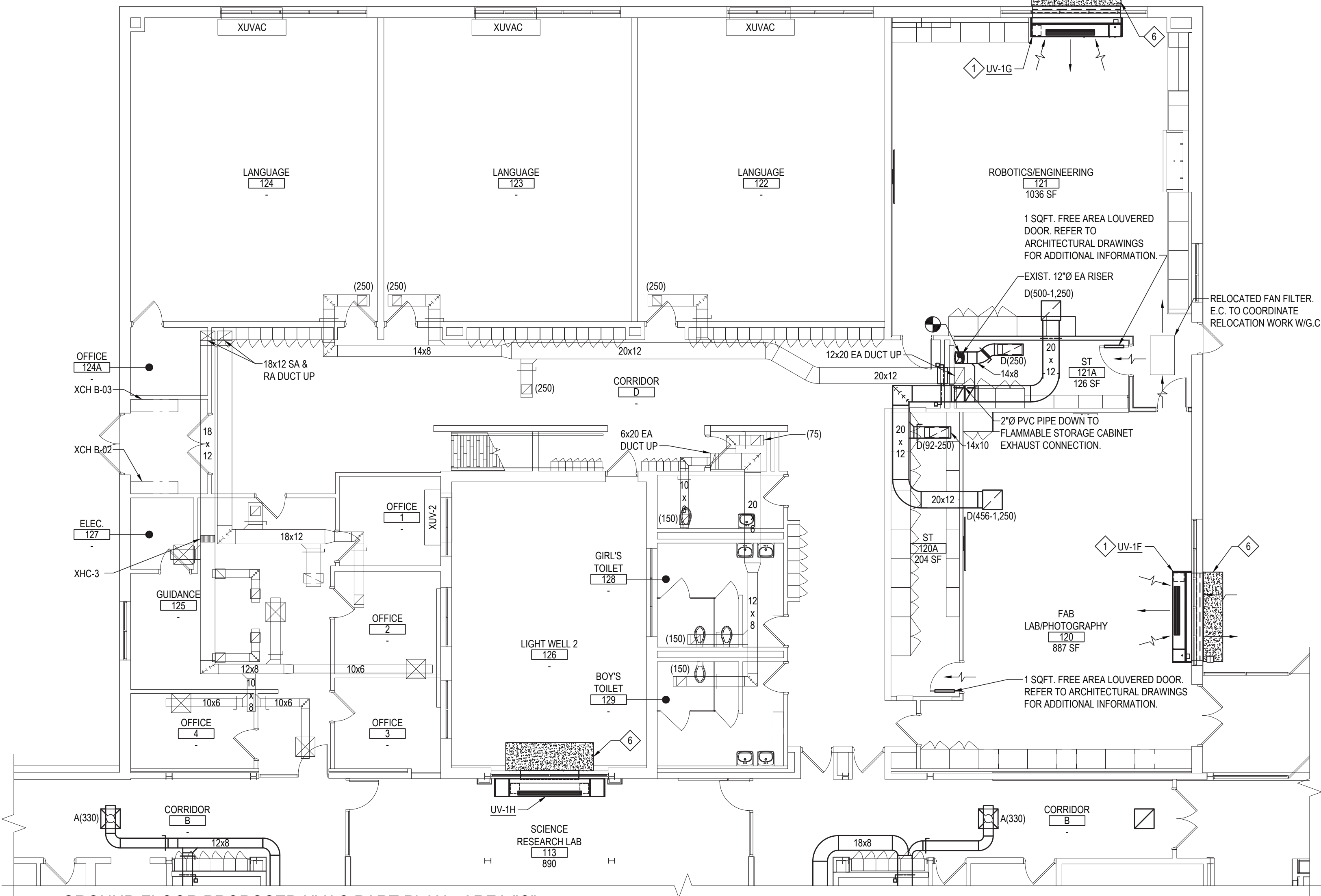
M1.07 HSMS



1 GROUND FLOOR PROPOSED HVAC PART PLAN - AREA "A"

NOTE:

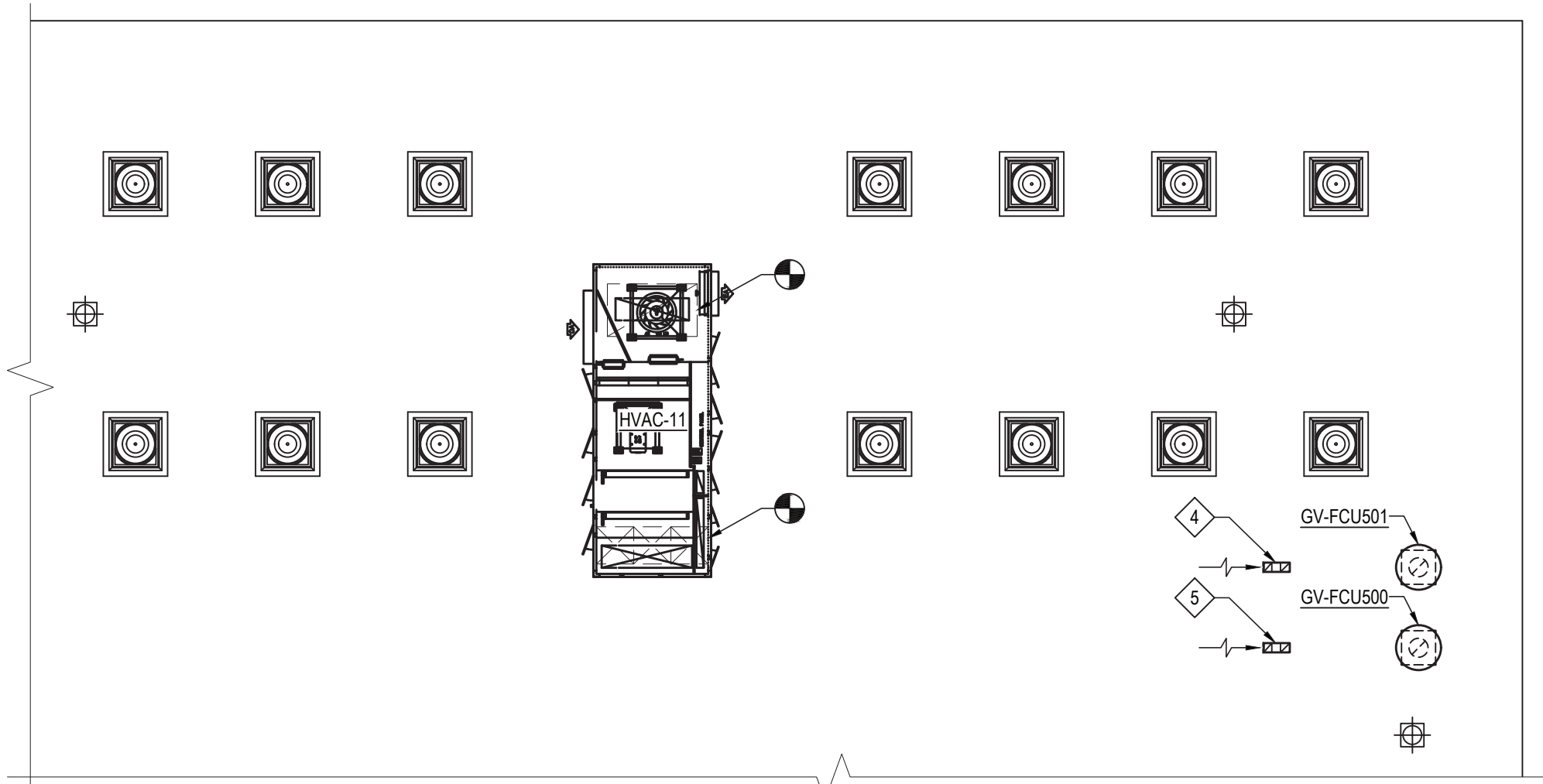
SCALE: 1/8" = 1'-0"



2 GROUND FLOOR PROPOSED HVAC PART PLAN - AREA "C"

NOTE:

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



3 ROOF PROPOSED HVAC PART PLAN - AREA "A"

NOTE:

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

NEW WORK NOTE:

ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL BE INTERNALLY LINED. ALL HIDDEN DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH INSULATION. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- NEW WORK KEYED NOTES:**
- M.C. TO HAVE G.C. EXPAND EXISTING BRICK WALL OPENING (EQUALLY FROM CENTERLINE OF EXISTING OPENING) TO 108/28 M.C. TO FURNISH & INSTALL NEW OUTDOOR AIR INTAKE. NON-FLANGED LOUVER. REFER TO SCHEDULES & DETAILS ON DRAWING M6.05 FOR ADDITIONAL INFORMATION. M.C. TO INSTALL NEW UNIT VENTILATOR SHOWN & CENTER IT WITH EXISTING OUTSIDE AIR INTAKE/DISCHARGE OPENING ON EXTERIOR WALL SHOWN. NEW UNIT VENTILATOR SHALL BE A FACE-AND-BYPASS DAMPER TYPE. M.C. TO PROVIDE 10" LENGTH 1/8 GAUGE FIN TUBE COVERS ON EACH SIDE OF NEW UNIT VENTILATOR. M.C. TO VERIFY ALL DIMENSIONS PRIOR TO START OF ANY WORK. REFER TO SCHEDULES, DETAILS AND MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 12x12 RELIEF AIR DUCT UP THRU ROOF TO GRAVITY VENTILATOR GV-FCU501. TERMINATE ±1'-0" BELOW UNDERSIDE OF DECK W/MS.
 - 12x12 RELIEF AIR DUCT UP THRU ROOF TO GRAVITY VENTILATOR GV-FCU500. TERMINATE ±1'-0" BELOW UNDERSIDE OF DECK W/MS.
 - 6x6 OA DUCT DN THRU ROOF TO FCU-501. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
 - 6x6 OA DUCT DN THRU ROOF TO FCU-500. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
 - CONCRETE PAD (REFER TO ARCH. DRAWINGS FOR ADDITIONAL INFORMATION)

MECHANICAL NOTES:

- UNLESS NOTED OTHERWISE, ALL BRANCH DUCTS SERVING AIR DEVICES SHALL BE 12x6
- M.C. SHALL PAINT ALL EXPOSED AND PARTIALLY EXPOSED DUCTS ABOVE OPEN SLAT CEILINGS/ DUCT INSULATION. COORDINATE DUCT INSULATION TO BE PAINTED WITH ARCHITECT APPROVED REFLECTED CEILING PLANS. PAINT COLOR AND TYPE TO BE SPECIFIED BY ARCHITECT OF RECORD. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED HVAC PLAN - AREA A & C

DRAWING BY: R.D.P.
CHECK BY: F.S.

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SED No: 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: PROPOSED HVAC PLAN AREA A & C

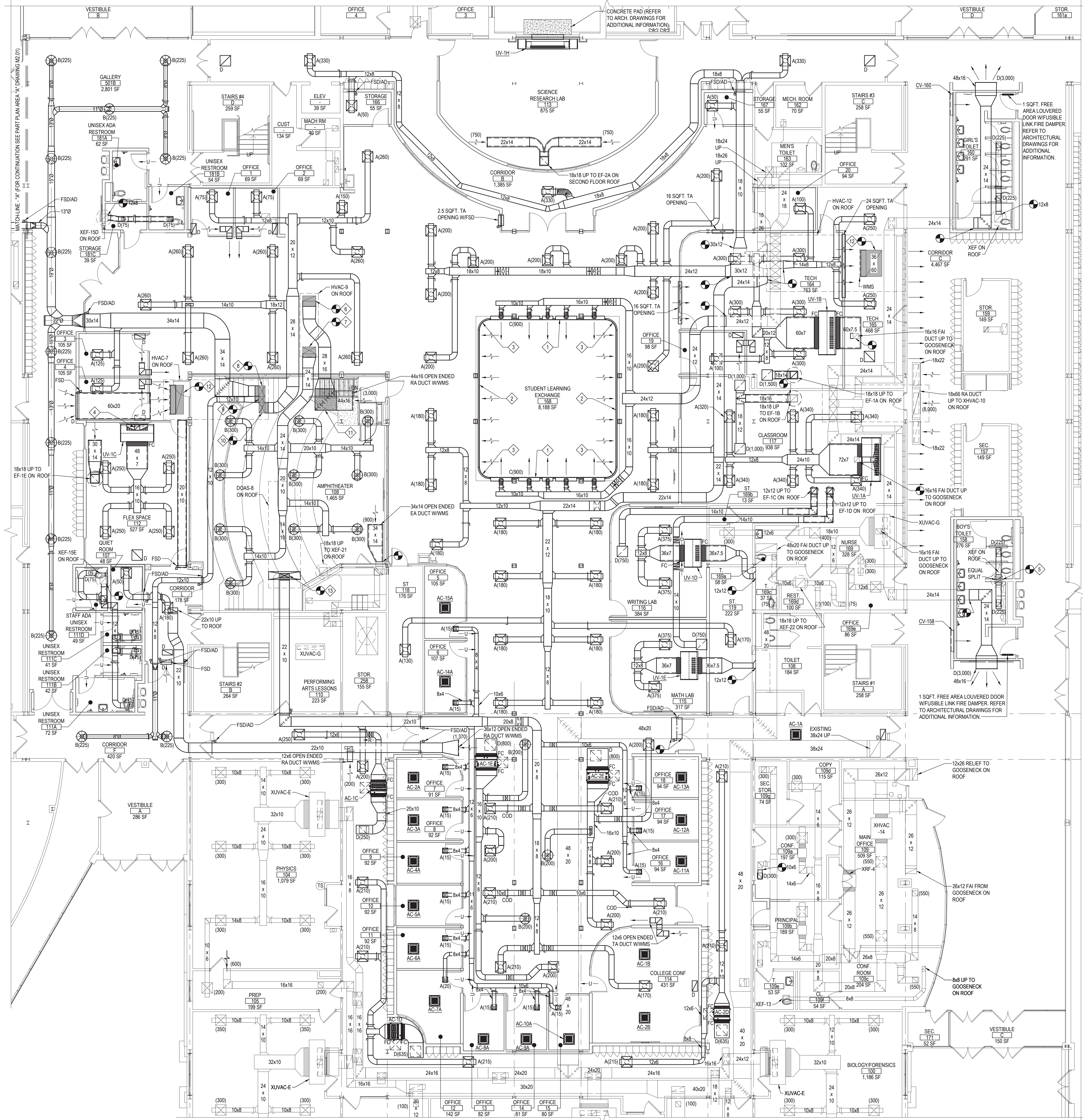
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FILE No: 21-274C

M2.01 **HSMS**



KEYED MECHANICAL NOTES:

- 1 21'-10 3/4" LONG CONTINUOUS SUPPLY AIR, LINEAR SLOT DIFFUSER. W/18'-0" ACTIVE LENGTH @ 50 CFM/FT. SHADED AREA INDICATES BLACK, BLANK-OFF PLATE INSTALLED BEHIND INACTIVE PORTION OF LINEAR. REFER TO LINEAR PATTERN CONTROLLER NOTE BELOW.
- 2 25'-11" LONG CONTINUOUS RETURN AIR, LINEAR SLOT DIFFUSER
- 3 CONTINUOUS LINEAR DIFFUSERS - FACTORY CURVED MITER CORNERS TO BE FURNISHED BY ANEMOSTAT.
- 4 18x16 OA DUCT UP THRU ROOF TO GOOSENECK.
- 5 CONNECT TO EXISTING 18x18 BELOW UNDERSIDE OF DECK, TRANSITION TO 12x12 IN DROP.
- 6 SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 30x12 RA DUCT UP TO HVAC-9 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 7 SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 30x16 SA DUCT UP TO HVAC-9 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 8 SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 14x24 (ZONE 1) SA DUCT UP TO HVAC-7 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 9 SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 14x14 (ZONE 2) SA DUCT UP TO HVAC-7 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 10 SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 14x24 (ZONE 3) SA DUCT UP TO HVAC-7 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 11 SHADED AREA REPRESENTS 44x16 RA DUCT SILENCER ELBOW. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 12 SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 16x8 RA DUCT UP TO HVAC-7 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 13 SHADED AREA REPRESENTS DUCT SILENCER ELBOW TO BE CONNECTED TO EXISTING 22x10 SA DUCT UP TO DOCK-8 ON ROOF. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MECHANICAL NOTES:

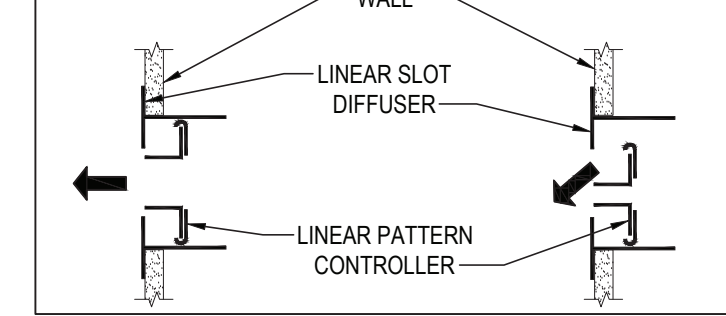
- 1. UNLESS NOTED OTHERWISE, ALL BRANCH DUCTS SERVING AIR DEVICES SHALL BE 12x6
- 2. M.C. SHALL PAINT ALL EXPOSED AND PARTIALLY EXPOSED (DUCTS ABOVE OPEN SLAT CEILINGS) DUCT INSULATION, COORDINATE DUCT INSULATION TO BE PAINTED WITH ARCHITECT APPROVED REFLECTED CEILING PLANS. PAINT COLOR AND TYPE TO BE SPECIFIED BY ARCHITECT OF RECORD. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

NEW WORK NOTE:

ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL BE INTERNALLY LINED. ALL HIDDEN DUCTWORK SHALL EXTERNALLY WRAPPED WITH INSULATION. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LINEAR PATTERN CONTROLLER NOTES:

- 1. M.C. TO ADJUST (SUPPLY AIR) LINEAR SLOT DIFFUSER, PATTERN CONTROLLERS AS SHOWN, (ALTERNATING EACH 2'-0" SECTION) BETWEEN HORIZONTAL THROW AND 45° DOWNWARD THROW PATTERNS.



1 GROUND FLOOR PROPOSED HVAC PART PLAN - AREA "D"

NOTE: SCALE: 1/8" = 1'-0"

REV. DATE ITEM

NOTICE

KEY PLAN

PROJECT

DRAWING BY: R.D.P.

CHECK BY: F.S.

NOTICE

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DISTRICT BRIARCLIFF MANOR UFSD

PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE PROPOSED HVAC PLAN AREA D

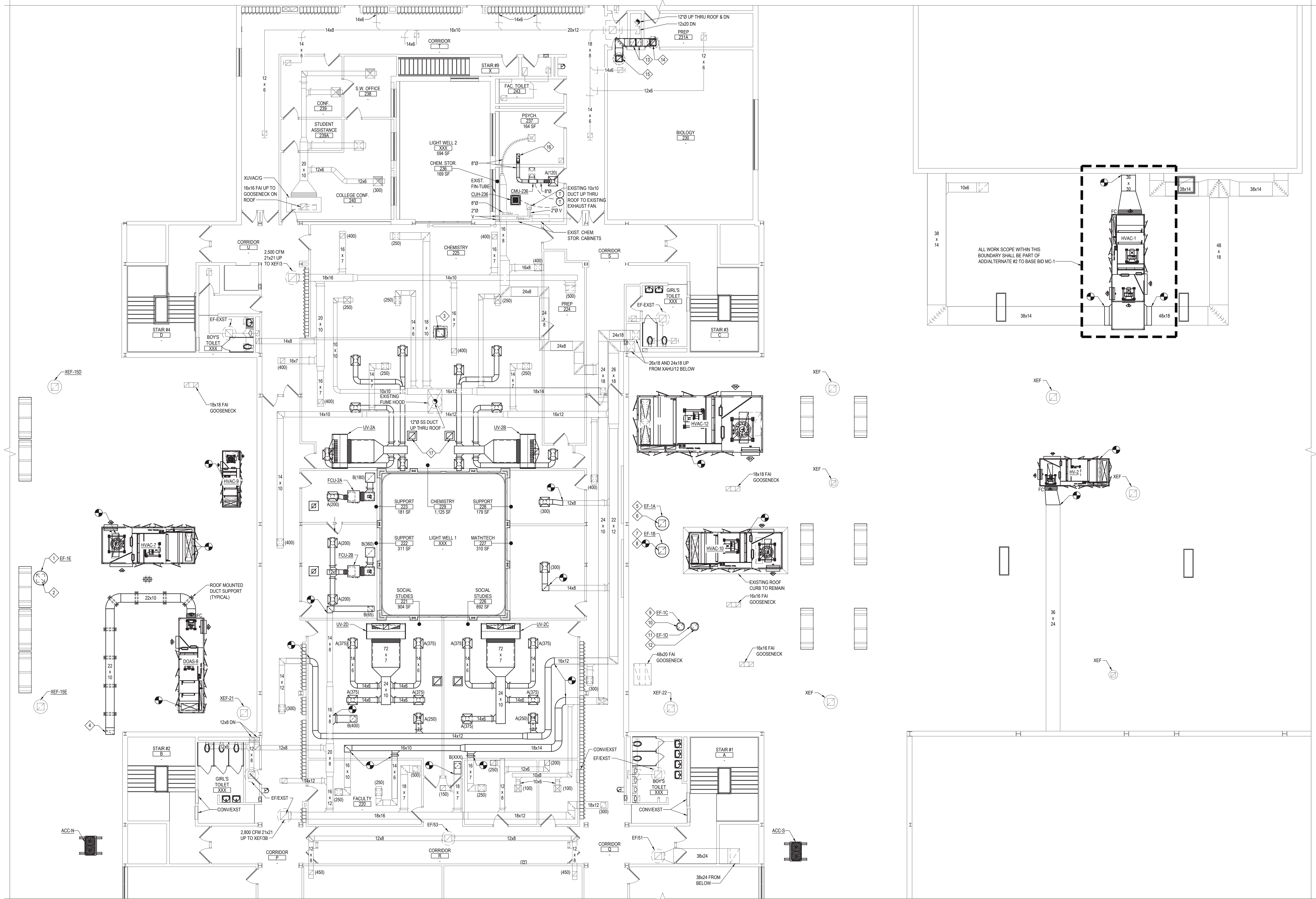
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FILE No: 21-274C

M2.02 HSMS



1 PROPOSED HVAC SECOND FLOOR AND ROOF PART PLAN - AREA "D & E"

NOTE:

KEYED MECHANICAL NOTES:

- M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1B). M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
- 18x18 A.L. EA DUCT DN THRU ROOF, (FOR CONTINUATION, SEE DRAWING M2.02).
- 18x18 A.L. EA DUCT UP THRU ROOF & DOWN THRU SLAB, (FOR CONTINUATION, SEE DRAWING M2.02).
- 22x10 RA DUCT DN THRU EXISTING ROOF OPENING. M.C. TO PROVIDE R.C. WITH 18" HIGH INSULATED CURB. R.C. TO INSTALL. M.C. TO HAVE R.C. PATCH REMAINING UNUSED PORTION OF OPENING TO MATCH EXISTING ROOF AND FLASH NEW DUCTWORK.
- M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1A). M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
- 18x18 A.L. EA DUCT DN THRU ROOF, (FOR CONTINUATION, SEE DRAWING M2.02).
- M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1B) ON EXISTING ROOF CURB. M.C. TO FURNISH NEW ROOF CURB ADAPTER. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
- M.C. EXTEND EXISTING 18x18 A.L. EA DUCT AS REQUIRED, (FOR CONTINUATION, SEE DRAWING M2.02).
- M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1C). M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
- 12x12 A.L. EA DUCT DN THRU ROOF, (FOR CONTINUATION, SEE DRAWING M2.02).
- M.C. TO FURNISH & INSTALL NEW EXHAUST FAN (EF-1D). M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
- 12x12 A.L. EA DUCT DN THRU ROOF, (FOR CONTINUATION, SEE DRAWING M2.02).
- 12x20 ACOUSTICALLY LINED EA DUCT DN THRU EXISTING SHAFT TO GROUND FLOOR. (FOR CONTINUATION, SEE DRAWING M2.01).
- 16x16 ACOUSTICALLY LINED EA DUCT UP THRU ROOF TO EF-2B, (FOR CONTINUATION, SEE DRAWING M2.01).
- 16x16 ACOUSTICALLY LINED EA DUCT UP THRU ROOF TO EF-2A, (FOR CONTINUATION, SEE DRAWING M3.03).
- 18x18 DA DUCT UP THRU ROOF TO GOOSENECK, (FOR CONTINUATION, SEE DRAWING M3.03).
- 16x16 DA DUCT UP THRU ROOF TO GRAVITY VENTILATOR, (FOR CONTINUATION, SEE DRAWING M3.03).

NEW WORK NOTE:

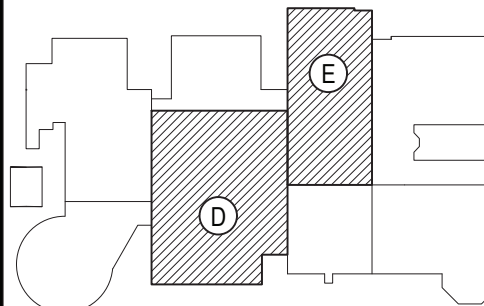
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SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510
DWG TITLE
PROPOSED HVAC SECOND FLOOR AND ROOF PART PLAN - AREA D & E

DRAWING BY: R.D.P.
CHECK BY: F.S.

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SED No: 66-14-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: PROPOSED HVAC ROOF PLAN AREA D & E

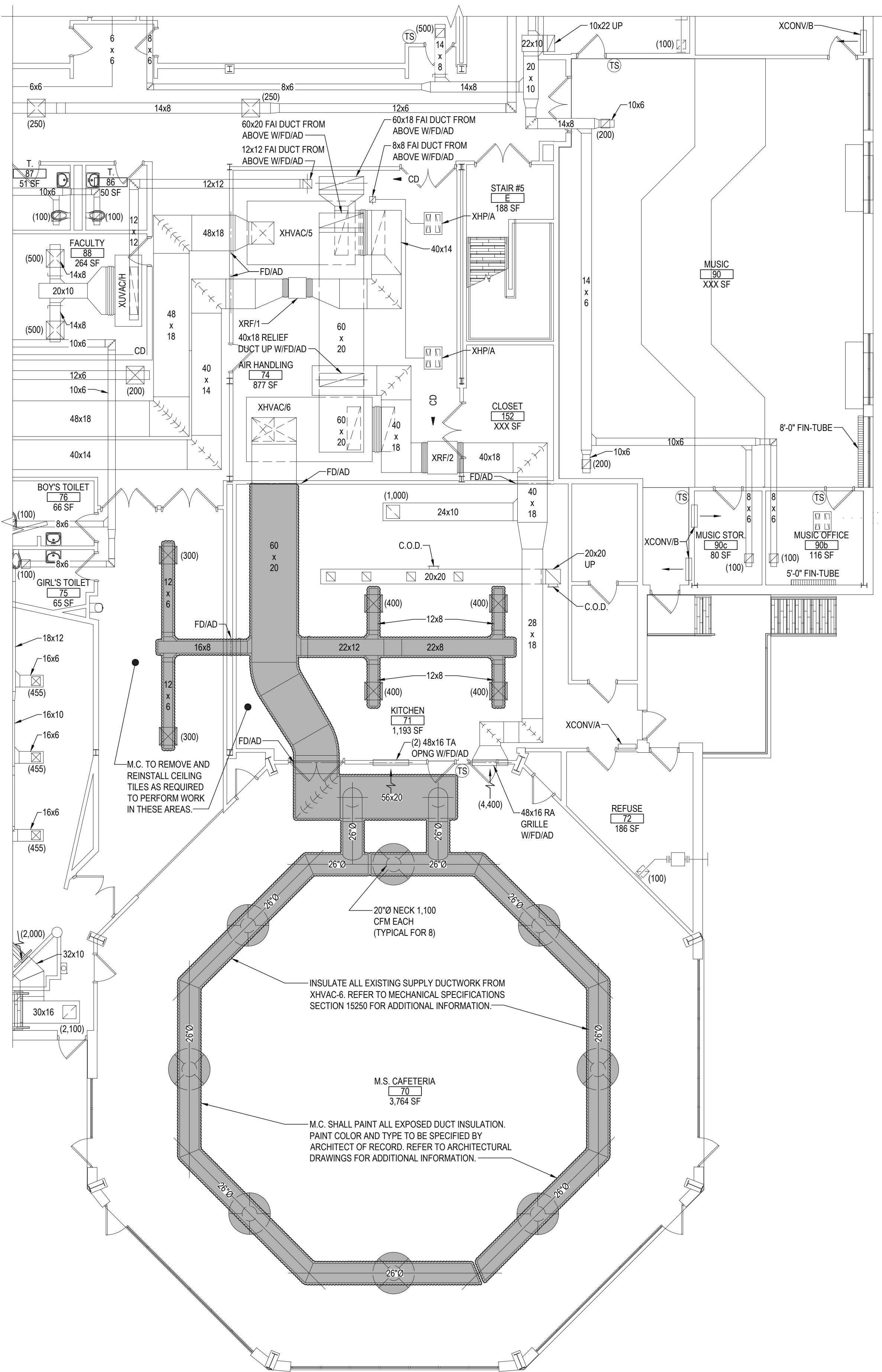
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BID PICK-UP:

FILE No: 21-274C

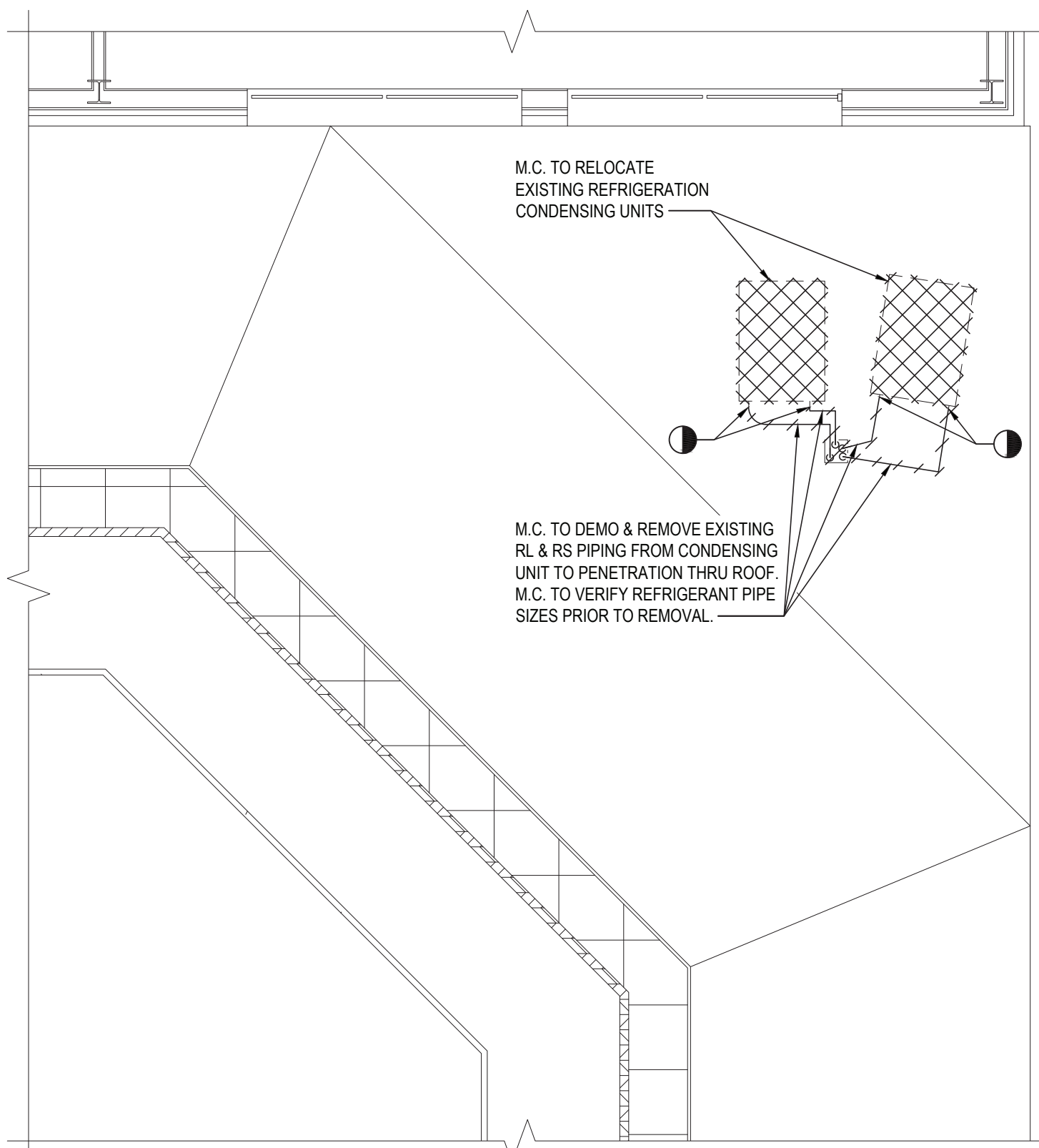
M2.03 HSMS



PROPOSED HVAC PART PLAN - AREA "H"

NOTE:
ALL DUCTWORK SHOWN IS EXISTING.

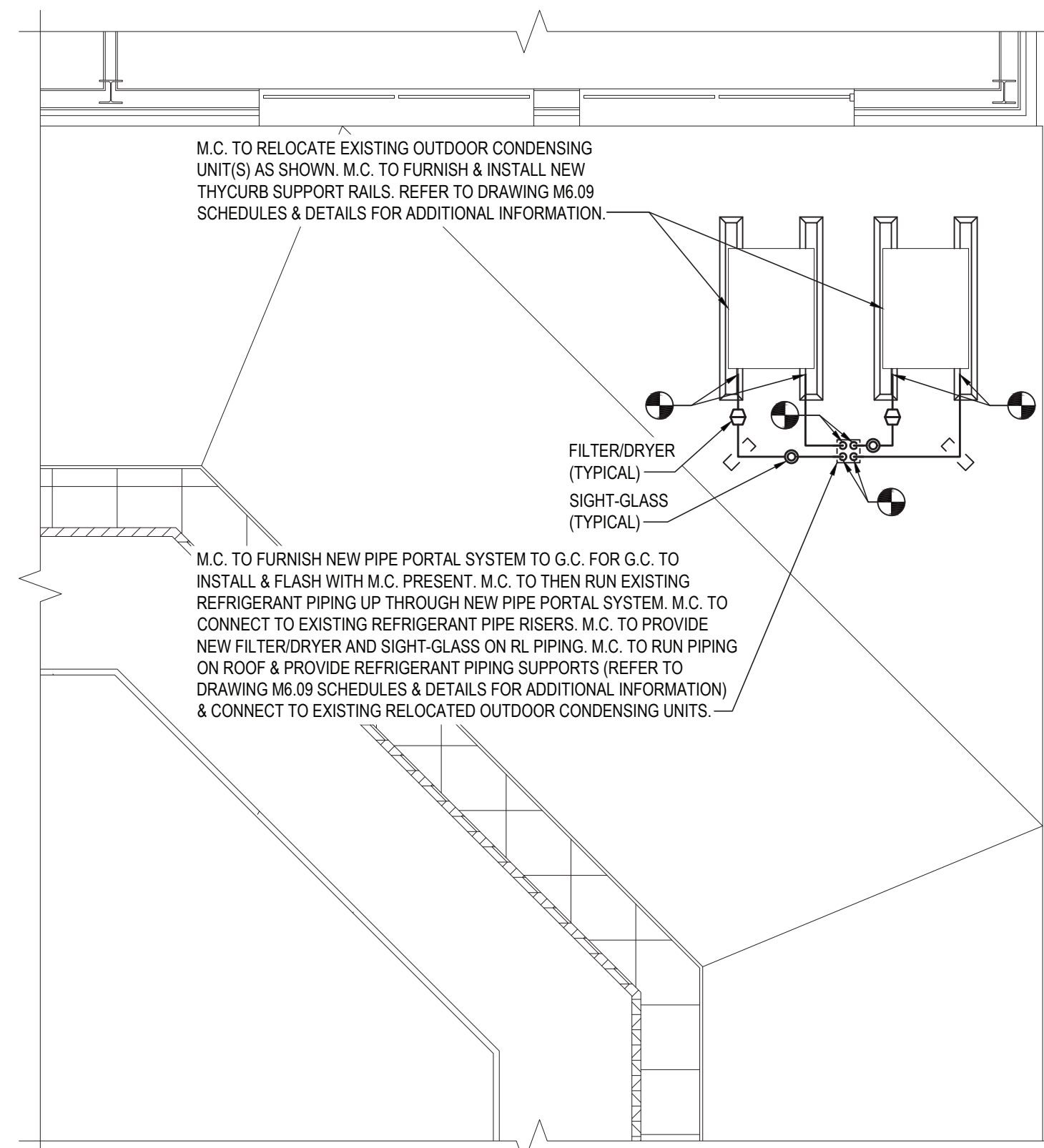
SCALE: 1/8" = 1'-0"



DEMOLITION HVAC PART PLAN - AREA "H" - ROOF

NOTE:

SCALE: 1/4" = 1'-0"



PROPOSED HVAC PART PLAN - AREA "H" - ROOF

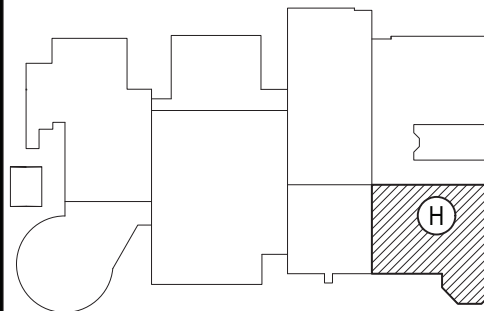
NOTE:

SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT
BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE
DEMOLITION AND PROPOSED
HVAC PLAN - AREA H

DRAWING BY: R.D.P.
CHECK BY: F.S.

NOTICE

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BBS

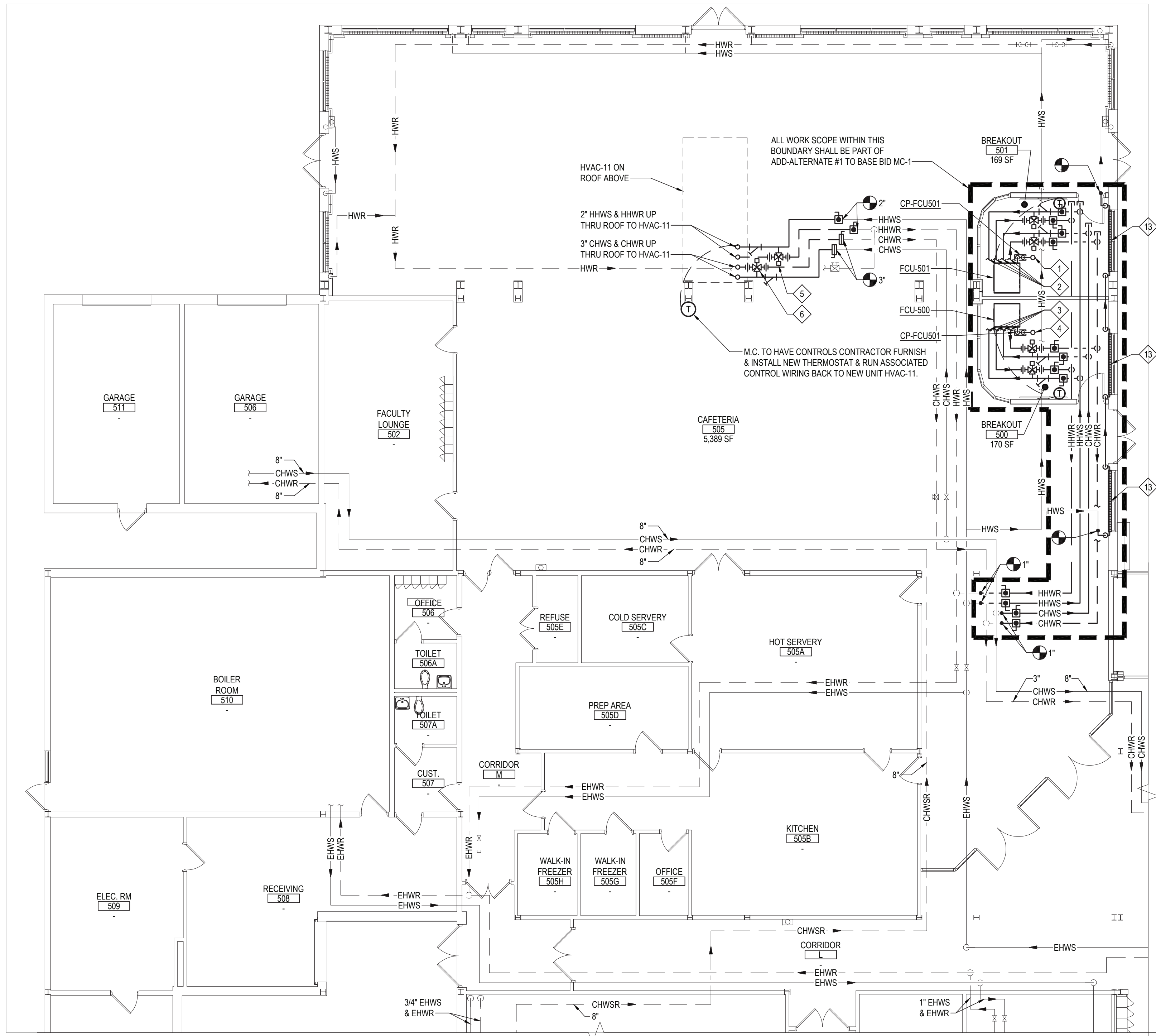
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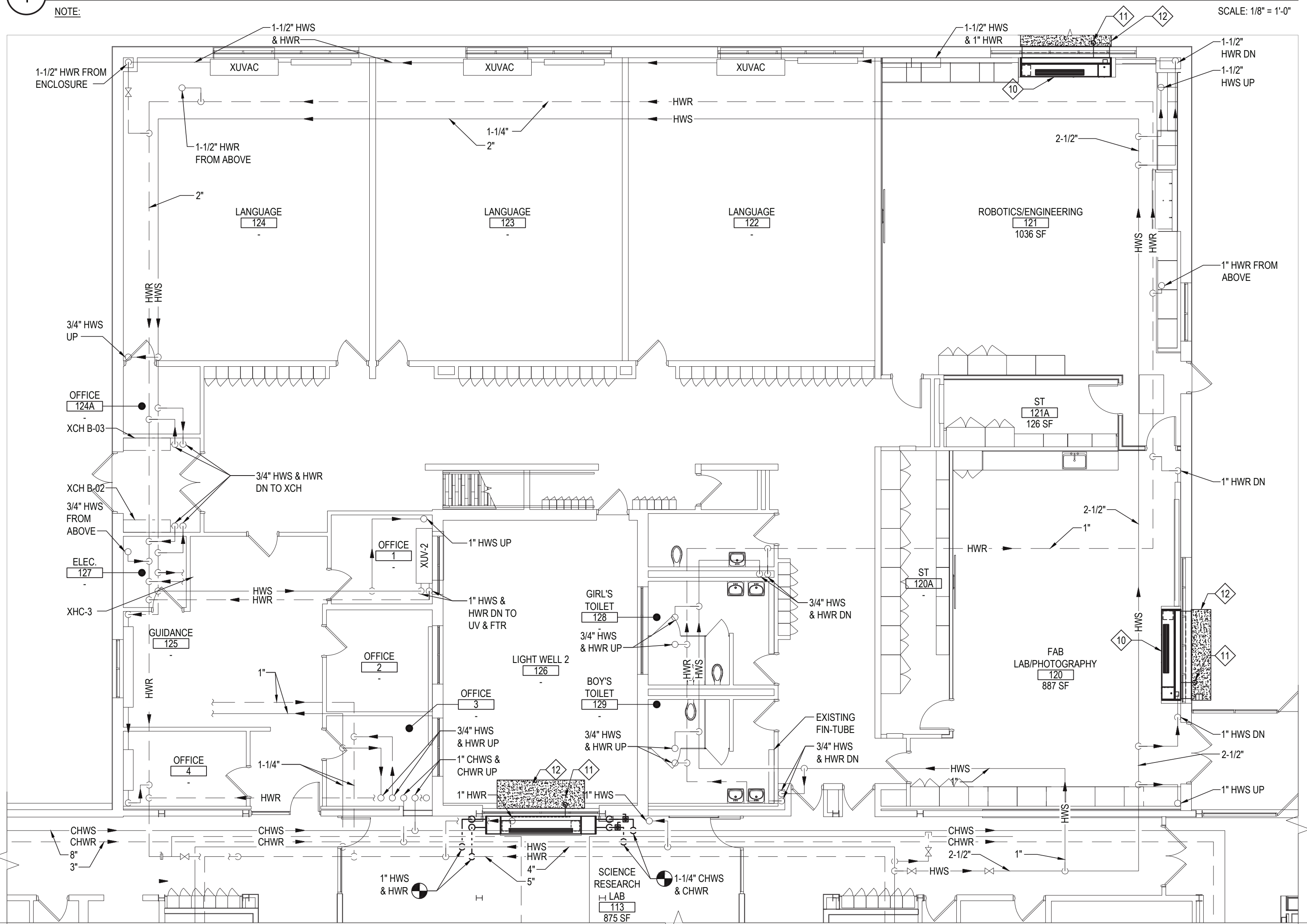
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SED No.	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	DEMOLITION AND PROPOSED HVAC PLAN - AREA H
SCALE	AS NOTED
DATE	7/15/22
BID PICK-UP	
FILE No.	21-274C

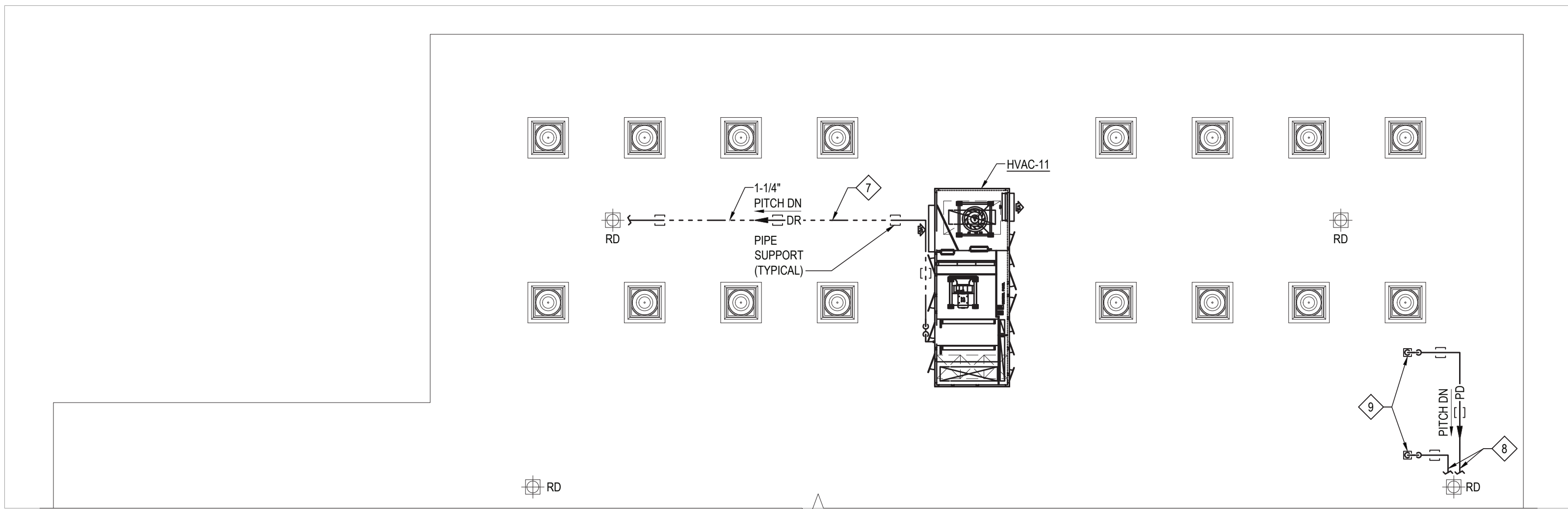
M2.04 HSMS



1 GROUND FLOOR PROPOSED PIPING PART PLAN - AREA "A"



4 GROUND FLOOR PROPOSED PIPING PART PLAN - AREA "C"



2 ROOF PROPOSED PIPING PART PLAN - AREA "A"

- NOTE:
- KEYED MECHANICAL NOTES:
- 3/4" PD UP THRU ROOF.
 - 3/4" CHWS, CHWR, HHWS & HHWR TO FCU-501.
 - 3/4" PD UP THRU ROOF.
 - 3/4" CHWS, CHWR, HHWS & HHWR TO FCU-501.
 - M.C. TO HAVE CONTROLS CONTRACTOR FURNISH & INSTALL NEW DDC HOT WATER CONTROL VALVE FOR HVAC-11. REFER TO SCHEDULES, DETAILS AND SPECIFICATIONS FOR FURTHER DETAILS.
 - M.C. TO HAVE CONTROLS CONTRACTOR FURNISH & INSTALL NEW DDC CHILLED WATER CONTROL VALVE FOR HVAC-11. REFER TO SCHEDULES, DETAILS AND SPECIFICATIONS FOR FURTHER DETAILS.
 - M.C. TO RUN 1-1/4" CONDENSATE DRAIN (DR) TO NEAREST ROOF DRAIN. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE.
 - M.C. TO RUN 3/4" CONDENSATE PUMP DISCHARGE (PD) TO NEAREST ROOF DRAIN. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE.
 - M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW CONDENSATE DISCHARGE PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN PIPING ON ROOF & PROVIDE PIPING SUPPORTS (REFER TO DRAWING M6.09 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION).
 - M.C. TO INSTALL NEW SELF-CONTAINED UNIT VENTILATOR SHOWN & CENTER IT WITH EXISTING OUTSIDE AIR INTAKE/DISCHARGE OPENING ON EXTERIOR WALL SHOWN. G.C. TO EXPAND EXISTING WALL OPENING AS REQUIRED TO ALLOW INSTALLATION OF NEW UNIT VENTILATOR. M.C. TO ALSO INSTALL NEW 1-1/4" HWS & 1-1/2" HWR PIPING PASSING BEHIND NEW UNIT VENTILATOR WIDTH INSIDE THE FULL ADAPTOR BACK OF NEW UNIT VENTILATOR. M.C. TO INSTALL NEW 1" HWS & HWR BRANCH PIPING GOING TO NEW UNIT VENTILATOR HOT WATER COIL. NEW UNIT VENTILATOR SHALL BE A FACE-AND-BYPASS DAMPER TYPE. M.C. TO ALSO PROVIDE 10" LENGTH 18-GAUGE FIN TUBE COVERS ON EACH SIDE OF NEW UNIT VENTILATOR. M.C. TO VERIFY ALL DIMENSIONS PRIOR TO START OF ANY WORK. ALL EXISTING CABINETRY TO REMAIN IN PLACE. EXISTING RELIEF AIR SYSTEM SHALL REMAIN & BE RE-USED. REFER TO SCHEDULES & DETAILS ON DRAWING M6.02 FOR ADDITIONAL INFORMATION.
 - M.C. TO RUN NEW 3/4" TYPE K HARD COPPER PIPING FOR CONDENSATE DRAIN LINE VIA GRAVITY OUT OF EXTERIOR WALL AS SHOWN WITH TAMPER RESISTANT SCREEN ON DISCHARGE OPENING. G.C. TO CUT OPENING FOR 3/4" CONDENSATE DRAIN PIPING WITH M.C. PRESENT.
 - CONCRETE PAD (REFER TO ARCH. DRAWINGS FOR ADDITIONAL INFORMATION)
 - 7'-0" ACTIVE LENGTH FINE-TUBE RADIATION, (800 BTULF). PEDESTAL TYPE ENCLOSURE. REFER TO SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED PIPING PLAN - AREA A & C

DRAWING BY: R.D.P.
CHECK BY: F.S.

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SED No: 66-14-02-02-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: PROPOSED PIPING PLAN AREA A & C

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

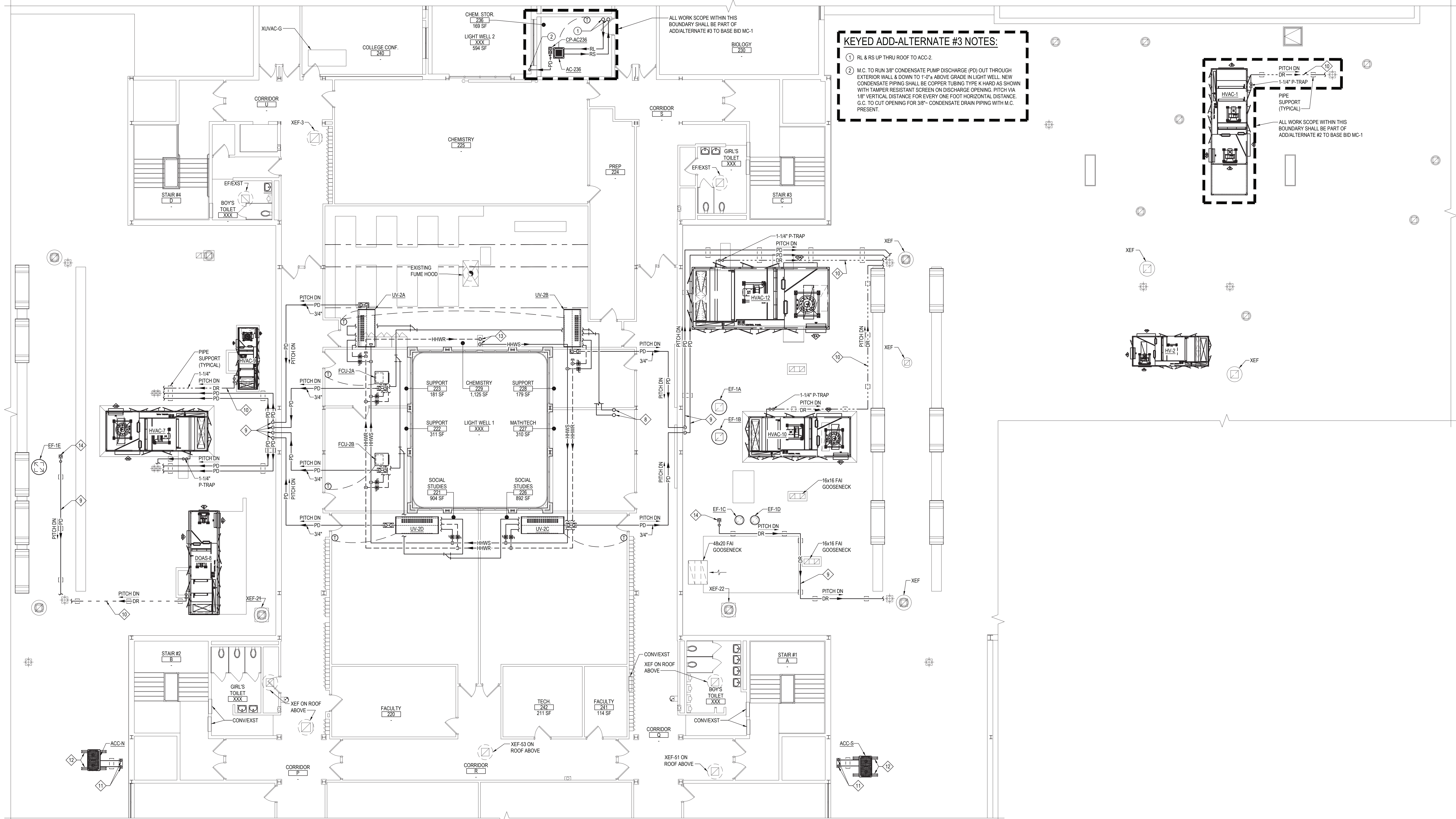
FILE No: 21-274C

M3.01 HSMS



M3.02	HSM9
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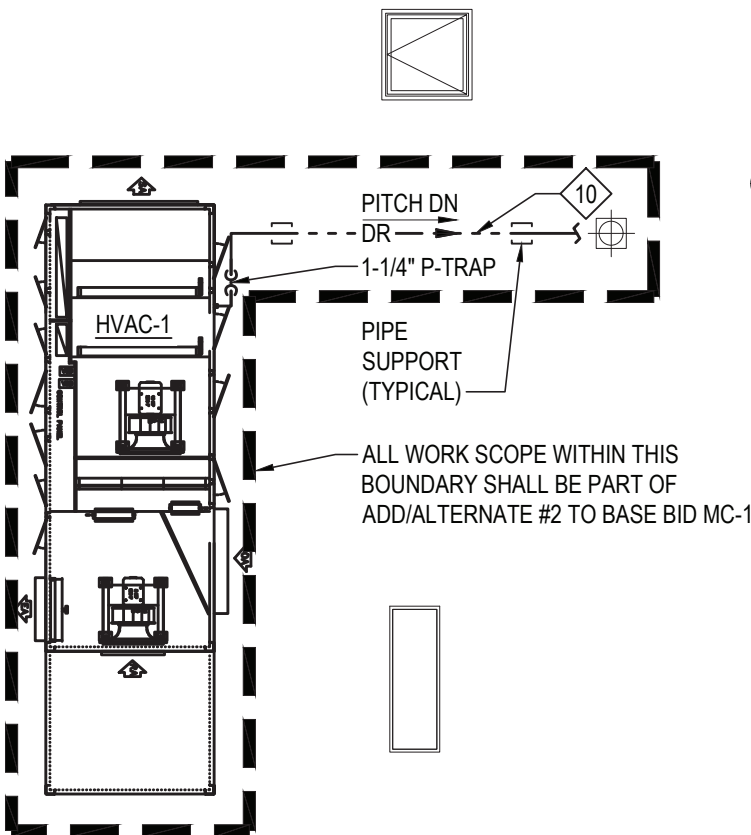
SCALE: 1/8" = 1'-0"



KEYED ADD-ALTERNATE #3 NOTES:

1 RL & RS UP THRU ROOF TO ACC-2.

2 M.C. TO RUN 3/8" CONDENSATE PUMP DISCHARGE (PD) OUT THROUGH EXTERIOR WALL & DOWN TO 1'-0" ABOVE GRADE IN LIGHT WELL. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD AS SHOWN WITH TAMPER RESISTANT SCREEN ON DISCHARGE OPENING. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE. G.C. TO CUT OPENING FOR 3/8" CONDENSATE DRAIN PIPING WITH M.C. PRESENT.



REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED 1ST FLOOR ROOF & 2ND FLOOR
PIPING & HVAC ROOF PART PLAN - AREA C, D & E

DRAWING BY:	R.D.P.
CHECK BY:	F.S.

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SED No:	66-14-02-02-0-004-023
DISTRICT	BRIARCLIFF MANOR UFSD
PROJECT	PHASE 2 BOND IMPROVEMENTS
DWG TITLE	PROPOSED PIPING & HVAC ROOF PLAN - AREA C, D & E
SCALE:	AS NOTED
DATE:	7/15/22
BID PICK-UP:	
FILE No:	21-274C

M3.03 **HSMS**

1 PROPOSED FIRST FLOOR ROOF & SECOND FLOOR PIPING PART PLAN - AREA "D & E"

NOTE:

KEYED MECHANICAL NOTES:

1 NOT USED

2 NOT USED

3 NOT USED

4 NOT USED

5 NOT USED

6 NOT USED

7 NOT USED

8 M.C. TO RUN NEW RS & RL REFRIGERANT PIPING UP THROUGH NEW PIPE PORTAL SYSTEM, RUN PIPING ON ROOF & PROVIDE REFRIGERANT PIPING SUPPORTS (REFER TO DRAWING M6.02 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION) & CONNECT TO NEW OUTDOOR CONDENSING UNIT (ACC-2).

9 M.C. TO RUN 3/4" CONDENSATE PUMP DISCHARGE (PD) OUT THROUGH EXTERIOR WALL & RUN TO NEAREST ROOF DRAIN. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE.

10 M.C. TO RUN 1-1/4" CONDENSATE DRAIN (DR) TO NEAREST ROOF DRAIN. NEW CONDENSATE PIPING SHALL BE COPPER TUBING TYPE K HARD. PITCH VIA 1/8" VERTICAL DISTANCE FOR EVERY ONE FOOT HORIZONTAL DISTANCE.

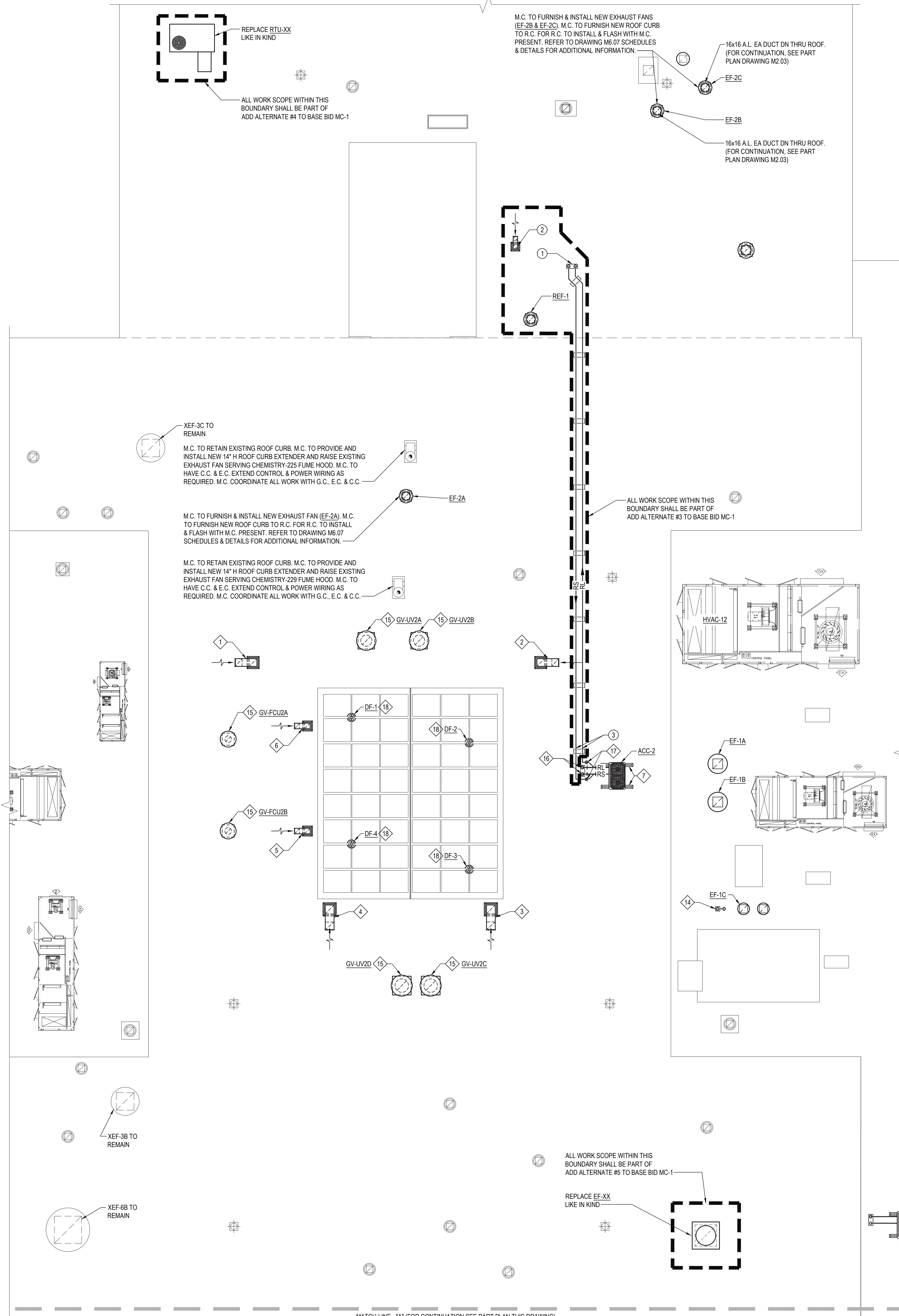
11 M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW REFRIGERANT PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN PIPING ON ROOF & PROVIDE REFRIGERANT PIPING SUPPORTS (REFER TO DRAWING M6.09 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION) & CONNECT TO NEW OUTDOOR CONDENSING UNIT.

12 M.C. TO FURNISH & INSTALL NEW OUTDOOR CONDENSING UNIT. M.C. TO FURNISH & INSTALL NEW THYOURS SUPPORT RAILS. REFER TO DRAWING M6.09 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.

13 M.C. TO CONNECT 1-1/2" HHWS & HHWR ±6" A.F.F. AND RUN IN CHASE UP THE CEILING PLENUM SPACE. ALL HHWS & HHWR PIPING TO BE INSULATED AS PER MECHANICAL SPECIFICATIONS.

14 M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW CONDENSATE PUMP DISCHARGE (PD) PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN (PD) PIPING ON ROOF & PROVIDE PIPING SUPPORTS (REFER TO DRAWING M6.09 FOR ADDITIONAL INFORMATION).

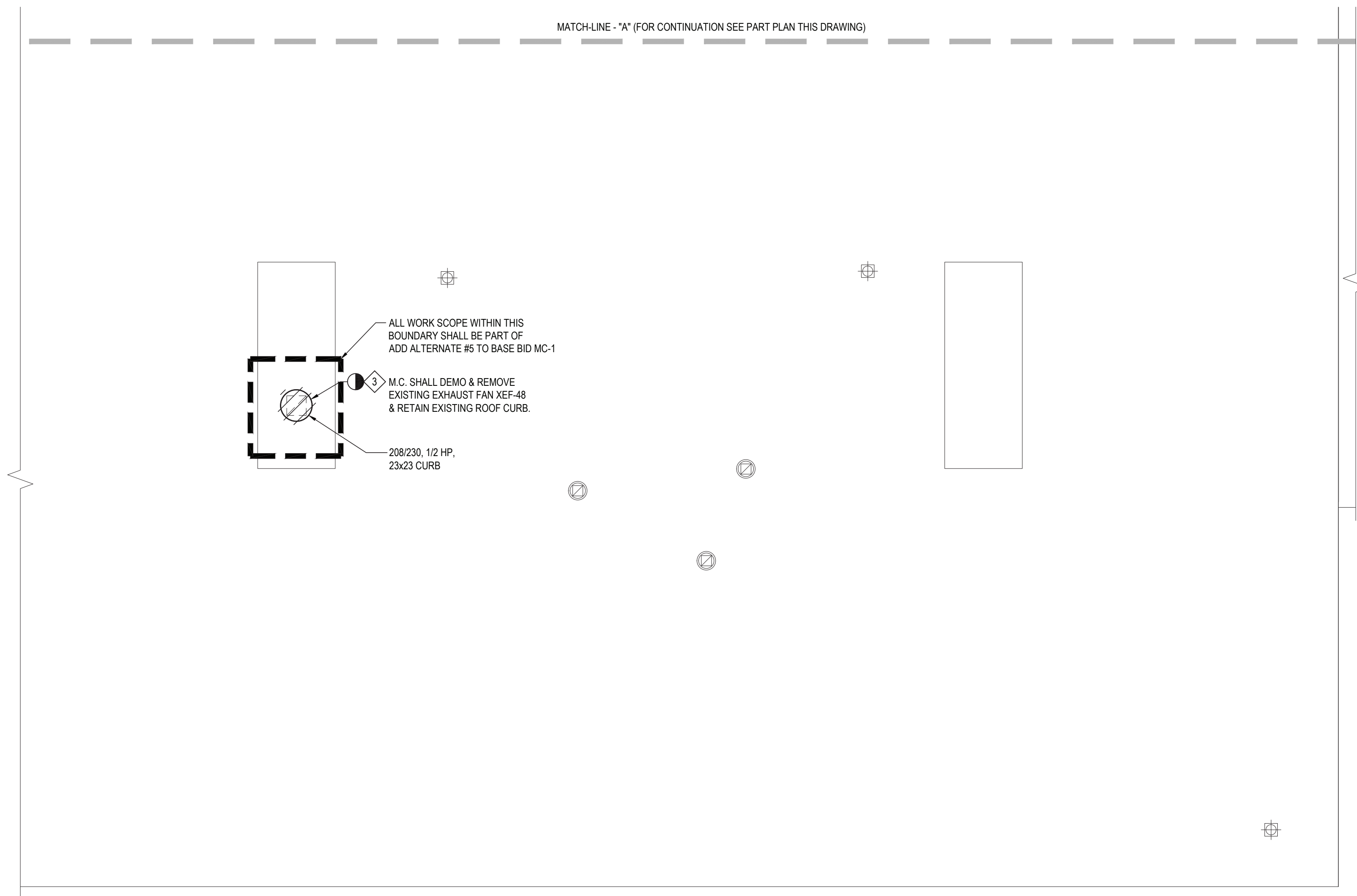
SCALE: 1/8" = 1'-0"



1 PROPOSED SECOND FLOOR AND ROOF HVAC PART PLAN - AREA "D & E"

NOTE:

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



2 PROPOSED SECOND FLOOR AND ROOF HVAC PART PLAN - AREA "D"

NOTE:

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

KEYED MECHANICAL NOTES:

- 1 14x14 OA DUCT DN THRU ROOF TO UV-2A. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
- 2 14x14 OA DUCT DN THRU ROOF TO UV-2B. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
- 3 16x16 OA DUCT DN THRU ROOF TO UV-2C. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
- 4 16x16 OA DUCT DN THRU ROOF TO UV-2D. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
- 5 10x10 OA DUCT DN THRU ROOF TO FCU-2B. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
- 6 10x10 OA DUCT DN THRU ROOF TO FCU-2A. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
- 7 M.C. TO FURNISH & INSTALL NEW OUTDOOR CONDENSING UNIT (ACC-2). M.C. TO FURNISH & INSTALL NEW THYCURB SUPPORT RAILS. REFER TO DRAWING M6.09 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
- 8 NOT USED
- 9 NOT USED
- 10 NOT USED
- 11 NOT USED
- 12 NOT USED
- 13 NOT USED
- 14 M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW CONDENSATE PUMP DISCHARGE (PD) PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN (PD) PIPING ON ROOF & PROVIDE PIPING SUPPORTS (REFER TO DRAWING M6.09 FOR ADDITIONAL INFORMATION).
- 15 M.C. TO FURNISH & INSTALL NEW GRAVITY VENTILATOR. M.C. TO FURNISH NEW ROOF CURB TO R.C. FOR R.C. TO INSTALL & FLASH WITH M.C. PRESENT. REFER TO DRAWING M6.07 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION.
- 16 M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO G.C. FOR G.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW RS & RL REFRIGERANT PIPING DOWN THROUGH NEW PIPE PORTAL SYSTEM & RUN PIPING IN SECOND FLOOR CEILING PLENUM TO INDOOR UNITS. REFER TO FIRST FLOOR ROOF & SECOND FLOOR PROPOSED PIPING PART PLAN - AREA "D & E" FOR CONTINUATION. (REFER TO DRAWING M6.02 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION) & CONNECT TO NEW OUTDOOR CONDENSING UNIT (ACC-2).
- 17 M.C. TO PROVIDE WYE BRANCH HEADER WITH VALVED & CAPPED OUTLET TO AC-236.
- 18 DESTRATIFICATION FANS (DF-1 THRU DF-4) TO BE MOUNTED BELOW SKYLIGHT, FROM SKYLIGHT MULLIONS.

KEYED ADD-ALTERNATE #3 NOTES:

- 1 M.C. TO FURNISH NEW PIPE PORTAL SYSTEM TO G.C. FOR G.C. TO INSTALL & FLASH WITH M.C. PRESENT. M.C. TO THEN RUN NEW RS & RL REFRIGERANT PIPING UP THROUGH NEW PIPE PORTAL SYSTEM & RUN PIPING ON ROOF & PROVIDE REFRIGERANT PIPING SUPPORTS (REFER TO DRAWING M6.02 SCHEDULES & DETAILS FOR ADDITIONAL INFORMATION) & CONNECT TO NEW OUTDOOR CONDENSING UNIT (ACC-236).
- 2 8x8 OA DUCT DN THRU ROOF TO CMU-236. TERMINATE WITH GOOSENECK ABOVE ROOF W/MS. BOTTOM OF OPEN END OF GOOSENECK SHALL BE A MINIMUM OF 3'-0" ABOVE FINISHED ROOF SURFACE.
- 3 M.C. TO REMOVE CAP FROM BRANCH HEADER AND RUN RL & RS PIPING TO AC-236.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

PROPOSED SECOND FLOOR AND ROOF
HVAC PART PLAN - AREA C & D

DRAWING BY: R.D.P.
CHECK BY: F.S.

NOTICE

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SED No: 66-14-02-02-0-004-023

DISTRICT: BRIARCLIFF MANOR UFSD

PROJECT: PHASE 2 BOND IMPROVEMENTS

DWG TITLE: PROPOSED 2ND FLOOR ROOF
HVAC PART PLAN - C & D

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No: 21-274C

M3.04 HSMS

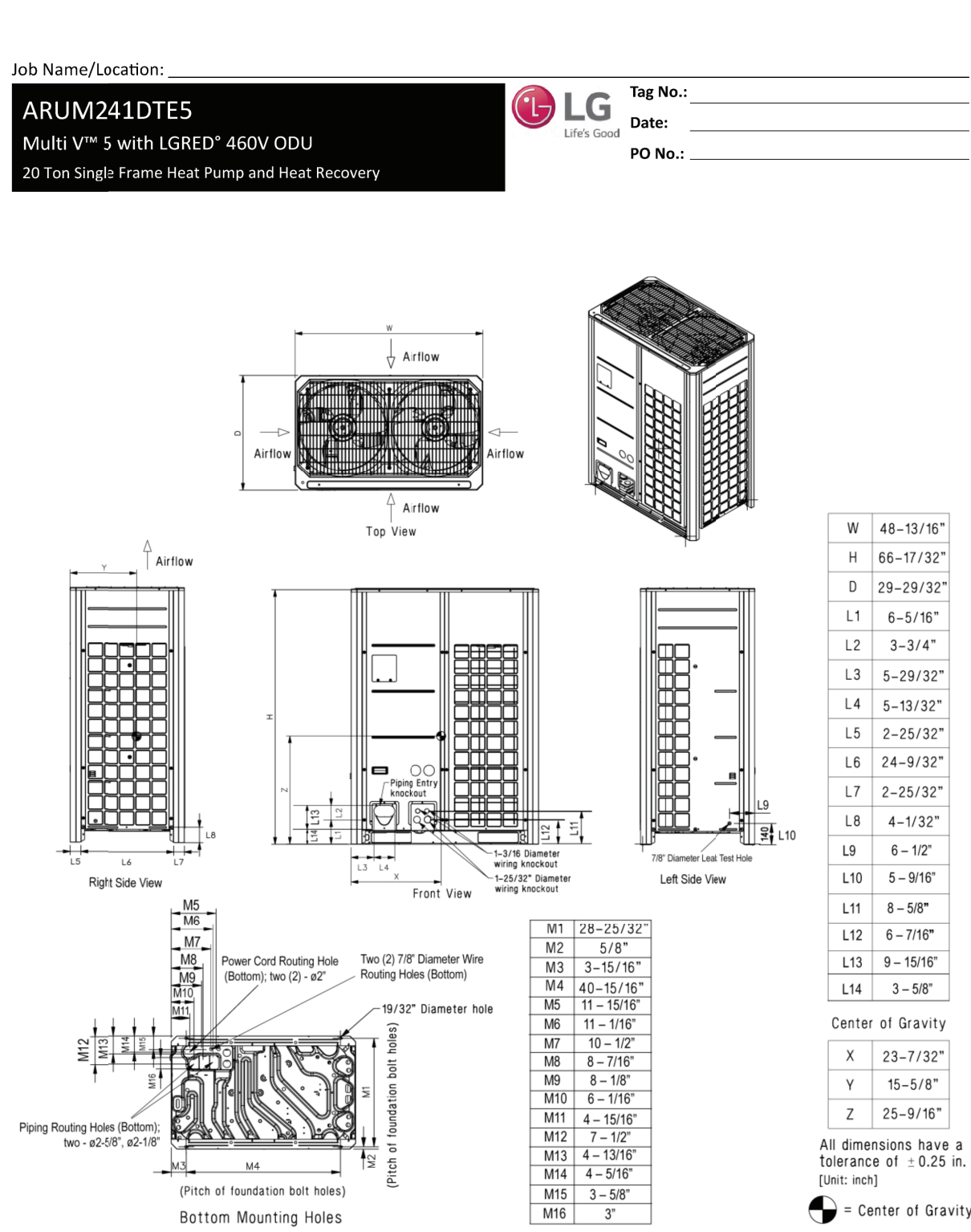
OUTDOOR CONDENSING UNIT SCHEDULE (ACC-2) (BASIS: LG)



VRF Outdoor Condensing Unit Data

ACC-2		Tag No.:	
ARUM241DTE5 Multi V™ 5 with iGRED® 460V ODU 20 Ton Single Frame Heat Pump and Heat Recovery			
Performance: Cooling Mode: Nominal Capacity (Btu/h) Power Input (kW)		5-122 223.00 16.80	
Heating Mode: Nominal Capacity (Btu/h) Power Input (kW)		248.00 17.75	
Unit Data: Refrigerant Type Refrigerant Control Max. Number of Indoor Units* Suction Pressure (PSIG) Saturated Evap Temp (°F)		R410A EEV 39 65.0	
Electrical: Power Supply (V/Hz/Ph) MOP (A) MCA (A) Rated Amps (A) Compressor (HP) Fan (A)		460/50/3 50 41.4 37.2 15.0 5.0	
Piping: Refrigerant Charge (lbs.) S/S Brazing Heat Recovery (H, O, D) Low Pressure Vapor (lb. / cu. ft.)		37.5 5/8 Brake 1-1/8 Brake 1-3/8 Brake	

Standard Features: <ul style="list-style-type: none"> Advanced Smart Load Control Variable Heat Path-Exchanger HPOR (High Pressure Oil Return) Smart Oil Control High-Grade Operation Fault Detection and Diagnosis 		Optional Accessories: <ul style="list-style-type: none"> Air Caster - ZHGKAS2A Heat Guard Kit - ZHGKAS2A Low Ambient Buffer Kit - ZABKAS2A (2), Control Kit - PWC2 (2 per system) Base Fan Heater - ZPT2AS1A 	
Additional Information: <ul style="list-style-type: none"> *Cooling range with the Low Ambient Buffer Kit load capacity is 5-97% to 122% and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system operating range. For optimal product development, LG reserves the right to change specifications without notice. © LG Electronics U.S.A., Inc. All rights reserved. "LG Life's Good" is a registered trademark of LG Corp. www.lg.com 		Job Name/Location: ARUM241DTE5 Multi V™ 5 with iGRED® 460V ODU 20 Ton Single Frame Heat Pump and Heat Recovery	



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Job Name/Location: ARUM241DTE5 Multi V™ 5 with iGRED® 460V ODU 20 Ton Single Frame Heat Pump and Heat Recovery		Tag No.: PO No.:	
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ARI Data:		ARI Data:	
Reference Number	Indoor Type	Cooling Capacity (BSE)	High COP (EER)
30504542	ducted	223,000	3.20
30524553	Non-Ducted	223,000	3.15

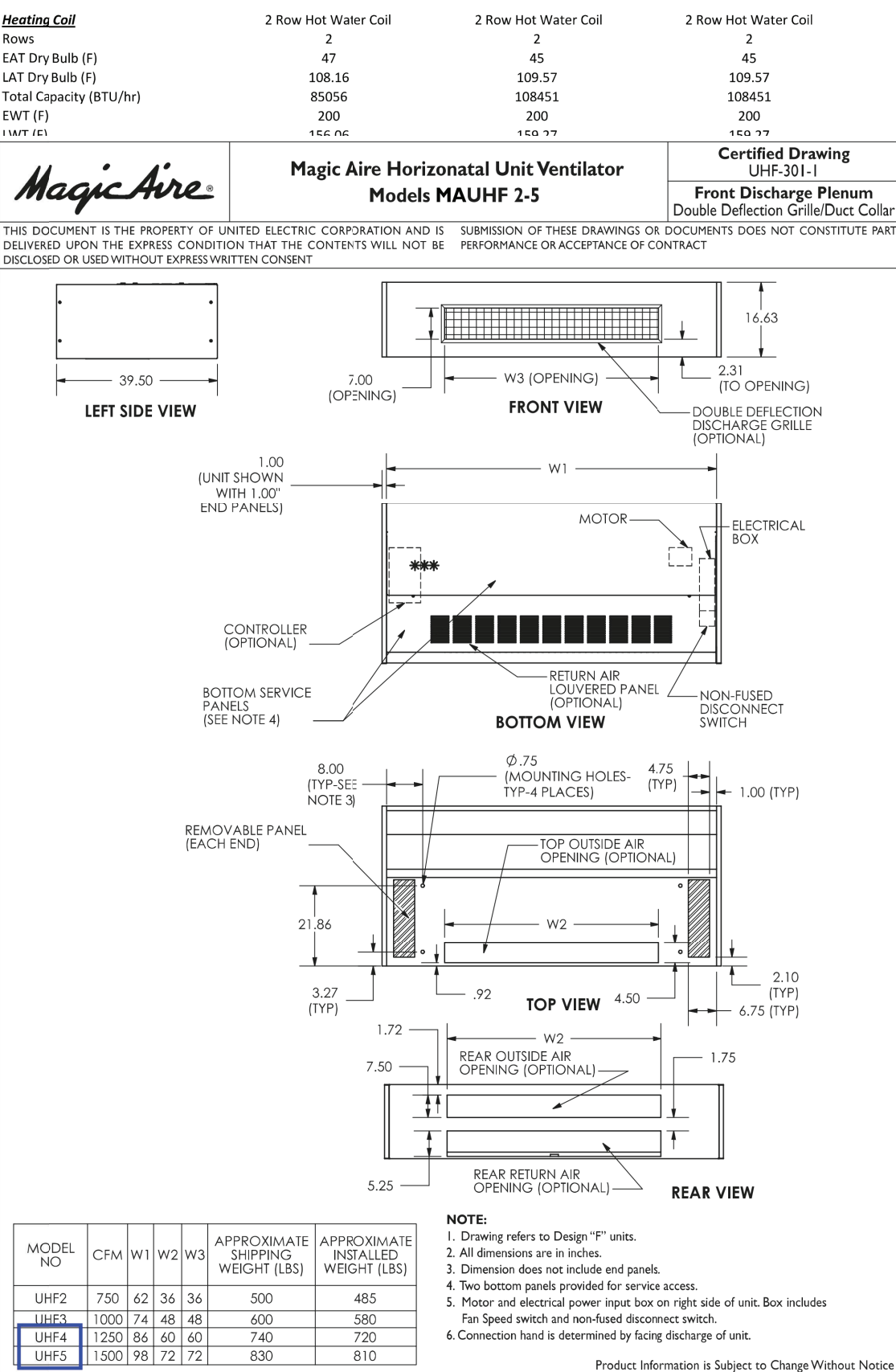
ADDITIONAL SCHEDULE NOTES:
 1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE PRESENT TO PERFORM START-UP, COMMISSIONING, TESTING, AND TRAINING OF NEW EQUIPMENT TO OWNERS PERSONNEL.
 2. APPROVED MANUFACTURER SHALL VISIT JOB SITE TO CONFIRM EXACT DIMENSIONS AND REFRIGERANT PIPING RUN PRIOR TO FURNISHING SUBMITTAL TO M.C. TO PROVIDE TO ARCHITECT/ENGINEER FOR REVIEW.
 3. PROVIDE INTERNAL LIFT CONDENSATE PUMP WITH UNIT.
 4. TIE IN VRF SYSTEM VIA BACNET CARD TO EXISTING BUILDING MANAGEMENT SYSTEM. SEE SPECIFICATIONS FOR FURTHER DETAILS.
 5. COORDINATE INSTALLATION WORK WITH G.C.
 6. FOR OUTDOOR CONDENSING UNIT, PROVIDE SUPPORTS FROM MANUFACTURER.

INDOOR VRF UNIT VENTILATOR SCHEDULES (UV-2A, 2B, 2C, & 2D) AND FAN COIL SCHEDULES (FCU 2A & FCU-2B) (BASIS: MAGIC AIRE / LG)



UV & FCU Data

Brarcliff Manor HS-MS DX/ HW UV		Tag No.:	
Performance Details: Manufacturer Model Number Base Unit Size Tag Quantity Altitude Configuration Normal Airflow (CFM) Q1 (CFM) External Static Pressure (ESP) (W/G)		MagicAire MAUH2-5 Horizontal Ceiling Mounted MAUH-4 UV-2A & UV-2B 1 0 4 Pipe 1250 400 0.1	
Unit Data: Refrigerant Type Refrigerant Control Max. Number of Indoor Units* Suction Pressure (PSIG) Saturated Evap Temp (°F)		R410A EEV 39 65.0	
Electrical: Power Supply (V/Hz/Ph) MOP (A) MCA (A) Rated Amps (A) Compressor (HP) Fan (A)		460/50/3 50 41.4 37.2 15.0 5.0	

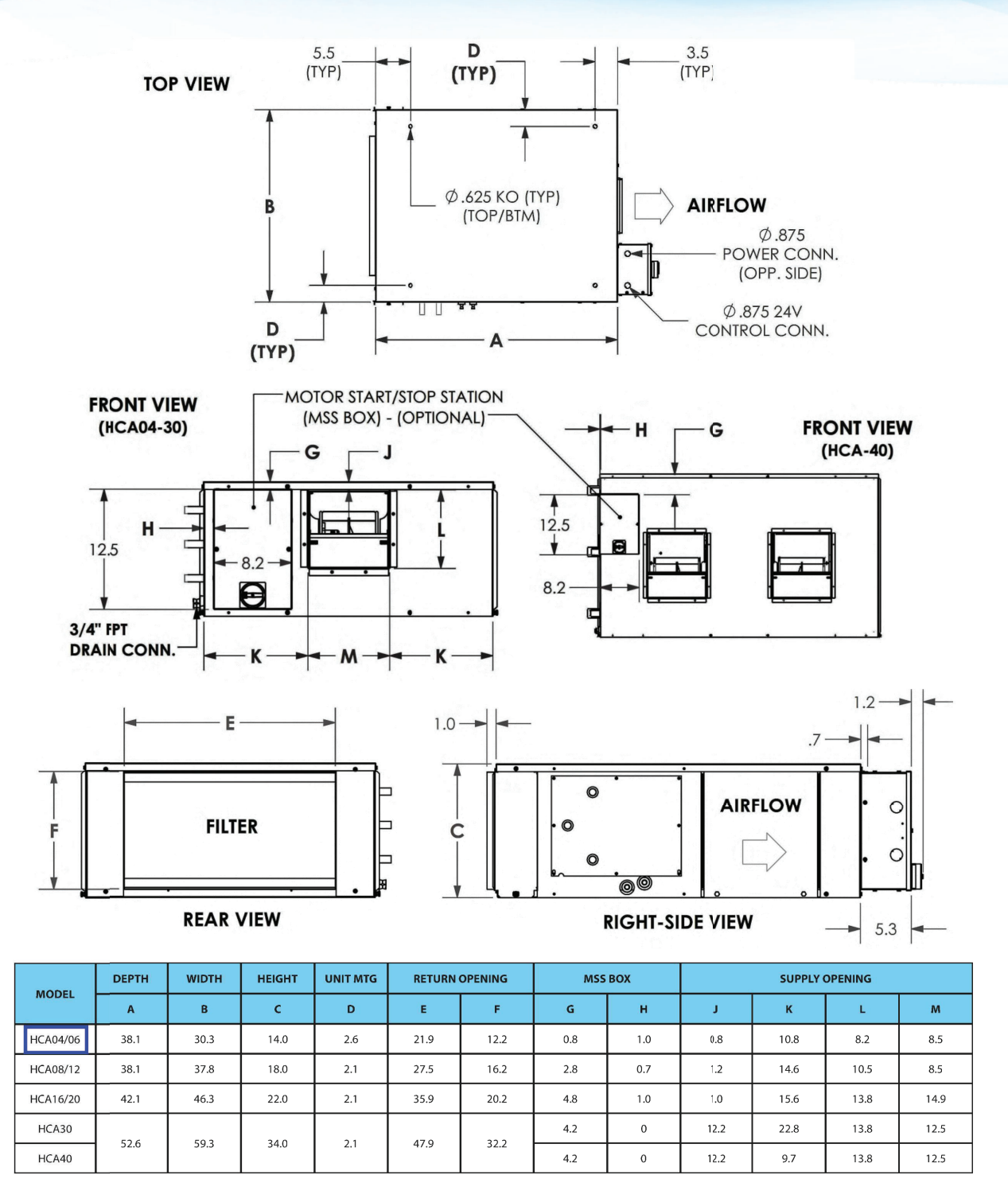


Brarcliff Manor HS-MS FCU-DX-HW		Tag No.:	
Performance Details: Manufacturer Model Number Base Unit Size Tag Quantity Altitude Configuration Normal Airflow (CFM) Q1 (CFM) External Static Pressure (ESP) (W/G) Internal Static Pressure (ISP) (W/G) Total Static Pressure (TSP) (W/G) RHP Watts		MagicAire HC20A 1 FCU-2B (223) 1 0 4 Pipe 100 40 0.4 0.125 0.75 1336 931 0.05 153.7	
Unit Data: Refrigerant Type Refrigerant Control Max. Number of Indoor Units* Suction Pressure (PSIG) Saturated Evap Temp (°F)		R410A EEV 39 65.0	
Electrical: Power Supply (V/Hz/Ph) MOP (A) MCA (A) Rated Amps (A) Compressor (HP) Fan (A)		460/50/3 50 41.4 37.2 15.0 5.0	

ARI Data:		ARI Data:	
Reference Number	Indoor Type	Cooling Capacity (BSE)	High COP (EER)
30504542	ducted	223,000	3.20
30524553	Non-Ducted	223,000	3.15

ADDITIONAL SCHEDULE NOTES:
 1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE PRESENT TO PERFORM START-UP, COMMISSIONING, TESTING, AND TRAINING OF NEW EQUIPMENT TO OWNERS PERSONNEL.
 2. APPROVED MANUFACTURER SHALL VISIT JOB SITE TO CONFIRM EXACT DIMENSIONS AND REFRIGERANT PIPING RUN PRIOR TO FURNISHING SUBMITTAL TO M.C. TO PROVIDE TO ARCHITECT/ENGINEER FOR REVIEW.
 3. PROVIDE INTERNAL LIFT CONDENSATE PUMP WITH UNIT.
 4. TIE IN VRF SYSTEM VIA BACNET CARD TO EXISTING BUILDING MANAGEMENT SYSTEM. SEE SPECIFICATIONS FOR FURTHER DETAILS.
 5. COORDINATE INSTALLATION WORK WITH G.C.
 6. FOR OUTDOOR CONDENSING UNIT, PROVIDE SUPPORTS FROM MANUFACTURER.

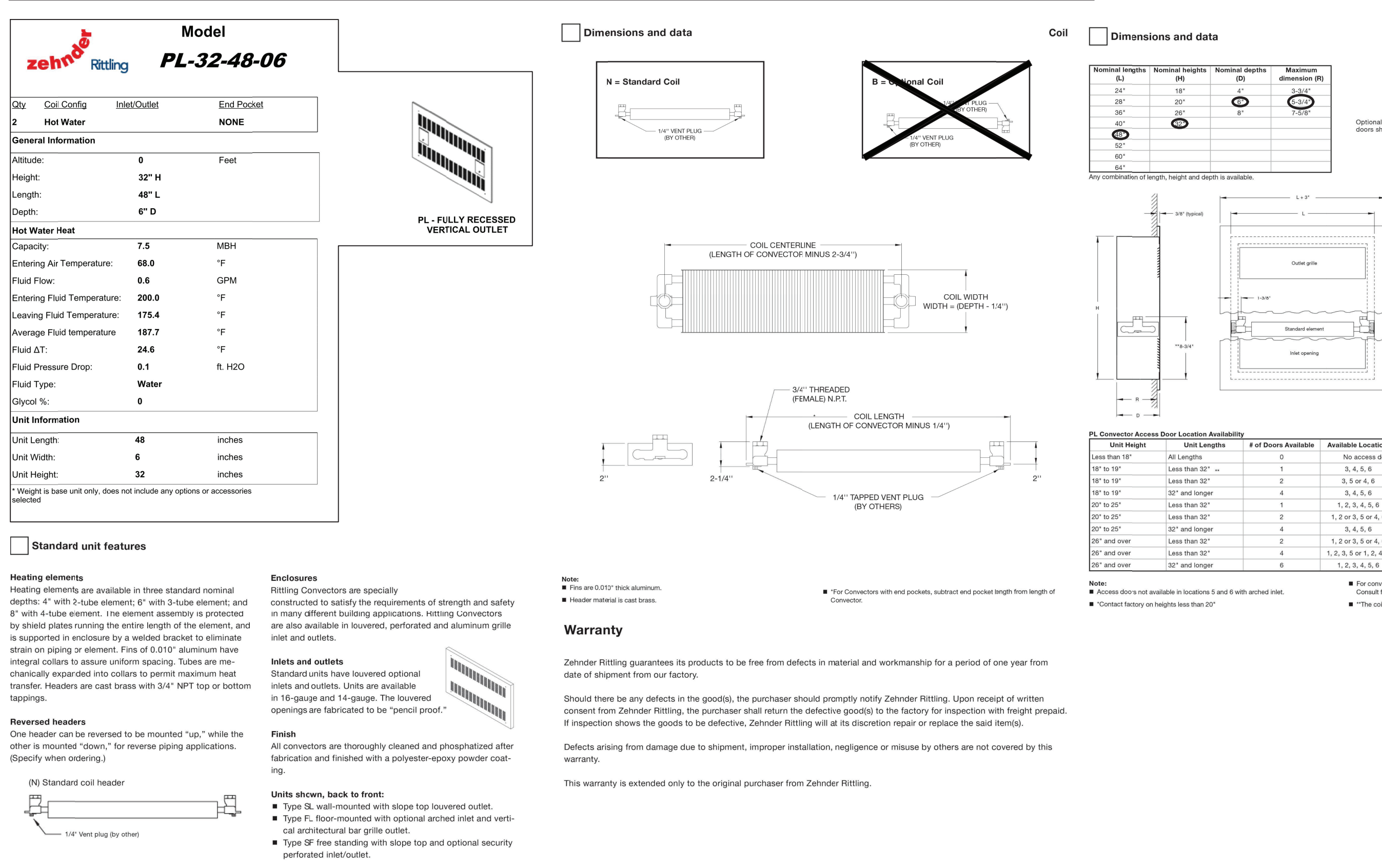
HCA Series Basic Unit Dimensions



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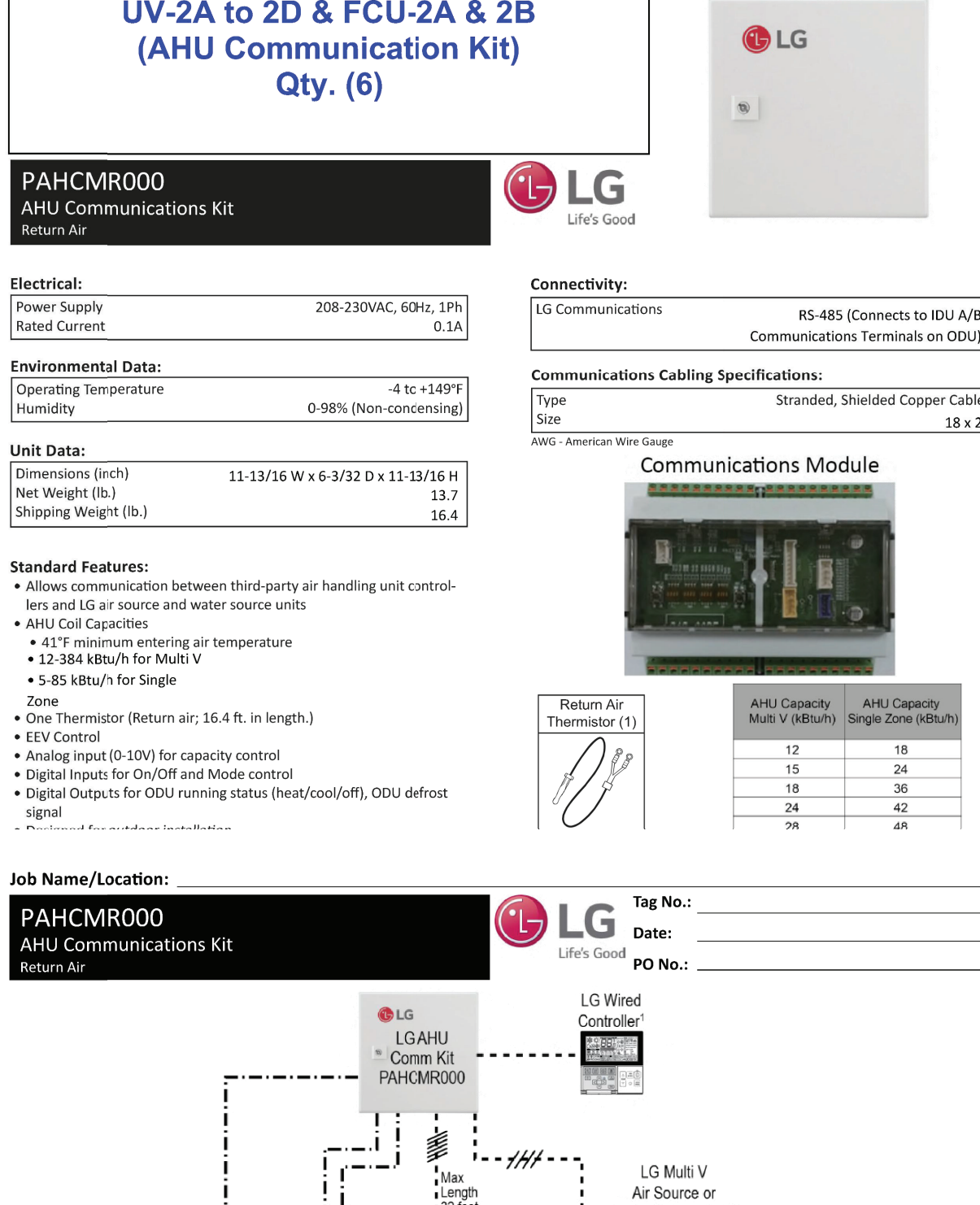
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 5. COORDINATE INSTALLATION WORK WITH G.C.

FULLY RECESSED HOT WATER CONVECTOR SCHEDULES (CV-158 & CV-160) (BASIS: ZEHNDER RITTLING)



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UV-2A to 2D & FCU-2A & 2B (EEV Kit) Qty. (6)



6

ADDITIONAL SCHEDULE NOTES:
 1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE PRESENT TO PERFORM START-UP, COMMISSIONING, TESTING, AND TRAINING OF NEW EQUIPMENT TO OWNERS PERSONNEL.
 2. APPROVED MANUFACTURER SHALL VISIT JOB SITE TO CONFIRM EXACT DIMENSIONS AND REFRIGERANT PIPING RUN PRIOR TO FURNISHING SUBMITTAL TO M.C. TO PROVIDE TO ARCHITECT/ENGINEER FOR REVIEW.
 3. PROVIDE INTERNAL LIFT CONDENSATE PUMP WITH UNIT.
 4. TIE IN VRF SYSTEM VIA BACNET CARD TO EXISTING BUILDING MANAGEMENT SYSTEM. SEE SPECIFICATIONS FOR FURTHER DETAILS.
 5. COORDINATE INSTALLATION WORK WITH G.C.

UV-2A to 2D & FCU-2A & 2B (AHU Communication Kit) Qty. (6)



6

ADDITIONAL SCHEDULE NOTES:
 1. PROVIDE FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE PRESENT TO PERFORM START-UP, COMMISSIONING, TESTING, AND TRAINING OF NEW EQUIPMENT TO OWNERS PERSONNEL.
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 6. FOR OUTDOOR CONDENSING UNIT, PROVIDE SUPPORTS FROM MANUFACTURER.

REV.

DATE

ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
 PHASE 2 BOND IMPROVEMENTS
 BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
 444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

SCHEDULES, EQUIPMENT
 NOTES AND DETAILS (6 OF 10)

DRAWING BY:

R.D.P.

CHECK BY:

F.S.

NOTICE

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SED No.

66-14-02-02-004-023

DISTRICT

BRIARCLIFF MANOR UFSD

PROJECT

PHASE 2 BOND IMPROVEMENTS

DWG TITLE

SCHEDULES, EQUIPMENT NOTES AND DETAILS (6 OF 10)

SCALE

AS NOTED

DATE

7/15/22

BID PICK-UP

FILE No.

21-274C

M6.05

HSMS

NEW PEDESTAL MOUNTED FIN-TUBE SCHEDULE (BASIS OF DESIGN: ZEHNDER RITTLING)

Element and Enclosure			
Project: Briarcliff Manor HSMS - BBS-RP			
Model: Copper-Aluminum			
Tag: _____			
Standard Colors			
Qty. Coil Config. Rows of Elements. Min. Installed Height			
1 Not Water 1 10 inches			
General Information			
Altitude: 0 Feet			
Tube Diameter: 3/4" TUBE			
Fin Size: 4-1/4" X 6-1/4" FIN			
Fin Spacing: 4 FIN PER FOOT			
Length of Active Element: _____ Feet			
Enclosure General Information			
Model: PB05			
Depth: 5 1/2" D			
Height: 6" H			
Diameter: _____			
Return: _____			
Minimum installed height: 10 inches			
Floor to Top of Enclosure: 18 inches			
Length of Inactive Enclosure: 0 Feet			
Total Length of Enclosure: 7 Feet			
Hot Water Heat			
Capacity: 9.9 MBH			
Element Output: 1287 Btu/Hr			
Entering Air Temperature: 65.5 °F			
Fluid Flow: 0.9 GPM			
Entering Fluid Temperature: 200.0 °F			
Leaving Fluid Temperature: 180.0 °F			
Fluid AT: 20.0 °F			
Fluid Pressure Drop: 0.3 ft. HD			
Fluid Type: Water			
Glycol %: 0			

Features, Pedestal

Zehnder Ritting's Pedestal Baffle Enclosure offers a slimline appearance in a strong floor mounted enclosure.

Enclosure

- 1/8, 1/4, 3/8 gauge cold rolled steel with painted finish
- 1" lengths in 6" increments
- PB05/PB02
- 1 Free or 2 high (PB05/PB02), 2-columns wide (PB05/PB02) or many other custom configurations available

Copper/Aluminum Element

- 1 Free or 2 high (PB05/PB02), 2-columns wide (PB05/PB02) or many other custom configurations available
- 1 Free or 2 high (PB05/PB02), 2-columns wide (PB05/PB02) or many other custom configurations available
- 1 Free or 2 high (PB05/PB02), 2-columns wide (PB05/PB02) or many other custom configurations available

Mounting

- Pedestal brackets - 2 available style bases
- Adjustable (1 standard) 4" x 5/8" x 1/4"
- Aluminum floor flange (optional, not available on 2 column)
- Enclosure mounts to a cradle-type expansion bracket with positive locking bottom mounting clip to provide easy installation and security
- 1 Free or 2 high (PB05/PB02), 2-columns wide (PB05/PB02) or many other custom configurations available
- 1 Free or 2 high (PB05/PB02), 2-columns wide (PB05/PB02) or many other custom configurations available
- 1 Free or 2 high (PB05/PB02), 2-columns wide (PB05/PB02) or many other custom configurations available

Drain

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- 1 Free or 2 high (PB05/PB02), 2-columns wide (PB05/PB02) or many other custom configurations available

Accessories

- Pedestal enclosures are available in 1" to 12" lengths in 6" increments
- Pedestal enclosures are available in 1" to 12" lengths in 6" increments
- Pedestal enclosures are available in 1" to 12" lengths in 6" increments

Drain

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NEW EXHAUST FAN "EF-19" SCHEDULE (BASIS OF DESIGN: GREENHECK)

Model: CUE-099-B
Direct Drive Upblast Centrifugal Roof Exhaust Fan

Dimensional	
Quantity	1
Weight w/ Ac's (lb)	45
Weight w/ Ac's (lb)	76
Max 1 Motor Frame Size	56
Standard Curb Cap Size (in.)	19 x 19
Roof Opening (in.)	15.5 x 15.5

Performance	
Requested Volume (CFM)	400
Actual Volume (CFM)	400
Total External SP (in. wg)	0.25
Fan RPM	921
Operating Power (hp)	0.04
Elevation (ft)	30
Ambient Temp (°F)	70
Air Density (lb/ft³)	0.075
Tip Speed (ft/min)	2,696
Static Eff. (%)	47

Misc Fan Data	
Fan Eff. Index (FEI)	-
Outer Velocity (ft/min)	352

Motor	
Motor Mounted	Yes
Size (hp)	1/5
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Operating point at Total External SP	-
Efficiency Rating	Standard
Windings	1
Short Circuit Current Reg (SCCR)	5 kA

Sound Power by Octave Band	
Sound	62.5 125 250 500 1000 2000 4000 8000 LkA dBA Sones
Dist	75 65 62 53 50 40 34 29 47 4.7

Model: CUE-099-B	
Direct Drive Upblast Centrifugal Roof Exhaust Fan	
Standard Construction Features:	
- Aluminum housing - Backward inclined composite (size 60-95) or aluminum (size 60-200) wheel - Aluminum curb cap with pre-painted mounting holes - Drain trough - Ball bearing motor (size 60-200 and all Vari-Green), sleeve bearing motor (size 60-95) - Motor isolated on shock mounts - Corrosion resistant features	
Spark B construction was selected.	
Greenheck has included options and accessories for this product that meet the intent of AMCA 99 - spark resistant construction guidelines. Greenheck recommends, but does not require, an ESP motor for this product line. If an ESP motor is not selected, the engineer of record must determine if this is acceptable for the application. The resulting fan construction in no way implies a guarantee of safety for any level of spark resistance. Spark resistant construction does not prevent ignition of explosive gases or vapors due to static electric discharge or from any other means that may exist within a system.	

Curb Cap Adapter	
Type: Reducer	
Standard Construction Features:	
Curb adapters are designed to adapt standard curb cap dimensions to non-standard curb sizes. Adapters may be constructed of either aluminum or galvanized steel. Curb reducers may reduce by a maximum of 10 in. and curb adapters may extend up to 20 in. beyond the standard curb cap size.	

Model: GPE	
Curb Extension With Access Door	
Standard Construction Features:	
- Curb Extension motor between the fan and the roof curb - Constructed of either 18 ga galvanized or optional 0.064 in. aluminum - Bolted access door provides easy access to damper and damper actuator - Also an 1/4" additional height requirements - NOTES - Available in heights from 12 in. to 24 in. as specified - Corrosion Treat standard and steel frame as damper size	

Accessories	
DM	Material
3-1	Aluminum
3-2	Aluminum

General	
DM	Tag
3-1	EF-2
3-2	EF-3

Dimensions	
DM	Tag
3-1	EF-2
3-2	EF-3

Sizing	
DM	Tag
3-1	EF-2
3-2	EF-3

Underpinning	
DM	Tag
3-1	EF-2
3-2	EF-3

Weight	
DM	Tag
3-1	EF-2
3-2	EF-3

Shipped	
DM	Tag
3-1	EF-2
3-2	EF-3

Assembled Union Made	
DM	Tag
3-1	EF-2
3-2	EF-3

Actual Top W	
DM	Tag
3-1	EF-2
3-2	EF-3

Actual Top L	
DM	Tag
3-1	EF-2
3-2	EF-3

Actual Base W	
DM	Tag
3-1	EF-2
3-2	EF-3

Actual Base L	
DM	Tag
3-1	EF-2
3-2	EF-3

Actual Height	
DM	Tag
3-1	EF-2
3-2	EF-3

Actual Width	
DM	Tag
3-1	EF-2
3-2	EF-3

Actual Length	
DM	Tag
3-1	EF-2
3-2	EF-3

NEW EXHAUST FAN "EF-48" SCHEDULE (BASIS OF DESIGN: GREENHECK)

Model: G-120-VG
Direct Drive Centrifugal Roof Exhaust Fan

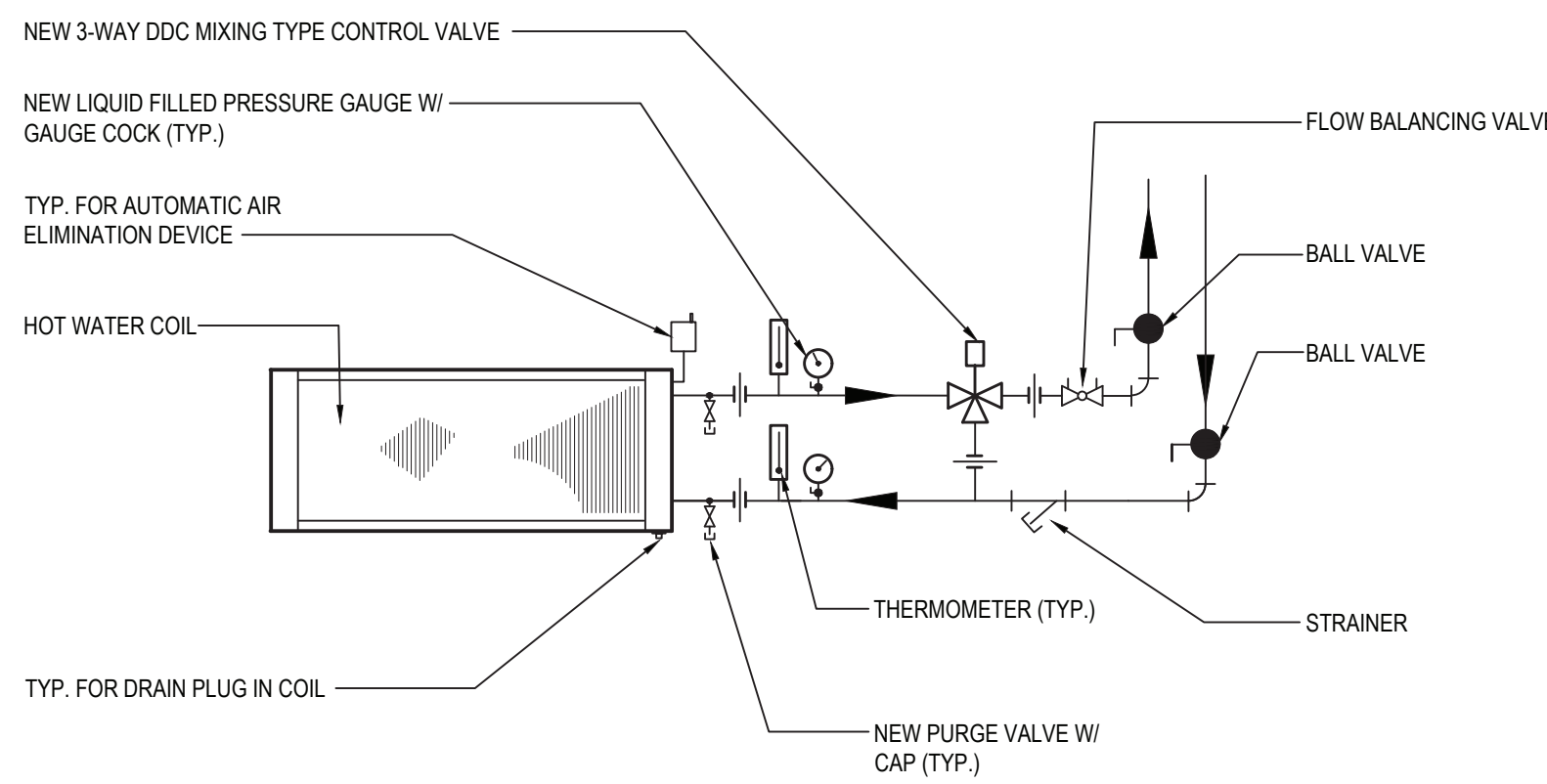
Dimensional	
Quantity	1
Weight w/ Ac's (lb)	44
Weight w/ Ac's (lb)	122
Standard Curb Cap Size (in.)	19 x 19
Optional Curb Cap Size (in.)	24 x 24
Roof Opening (in.)	15.5 x 15.5

Performance	
Requested Volume (CFM)	1,300
Actual Volume (CFM)	1,300
Total External SP (in. wg)	0.5
Fan RPM	1359
Operating Power (hp)	0.34
Elevation (ft)	30
Ambient Temp (°F)	70
Air Density (lb/ft³)	0.075
Tip Speed (ft/min)	4,648
Static Eff. (%)	45

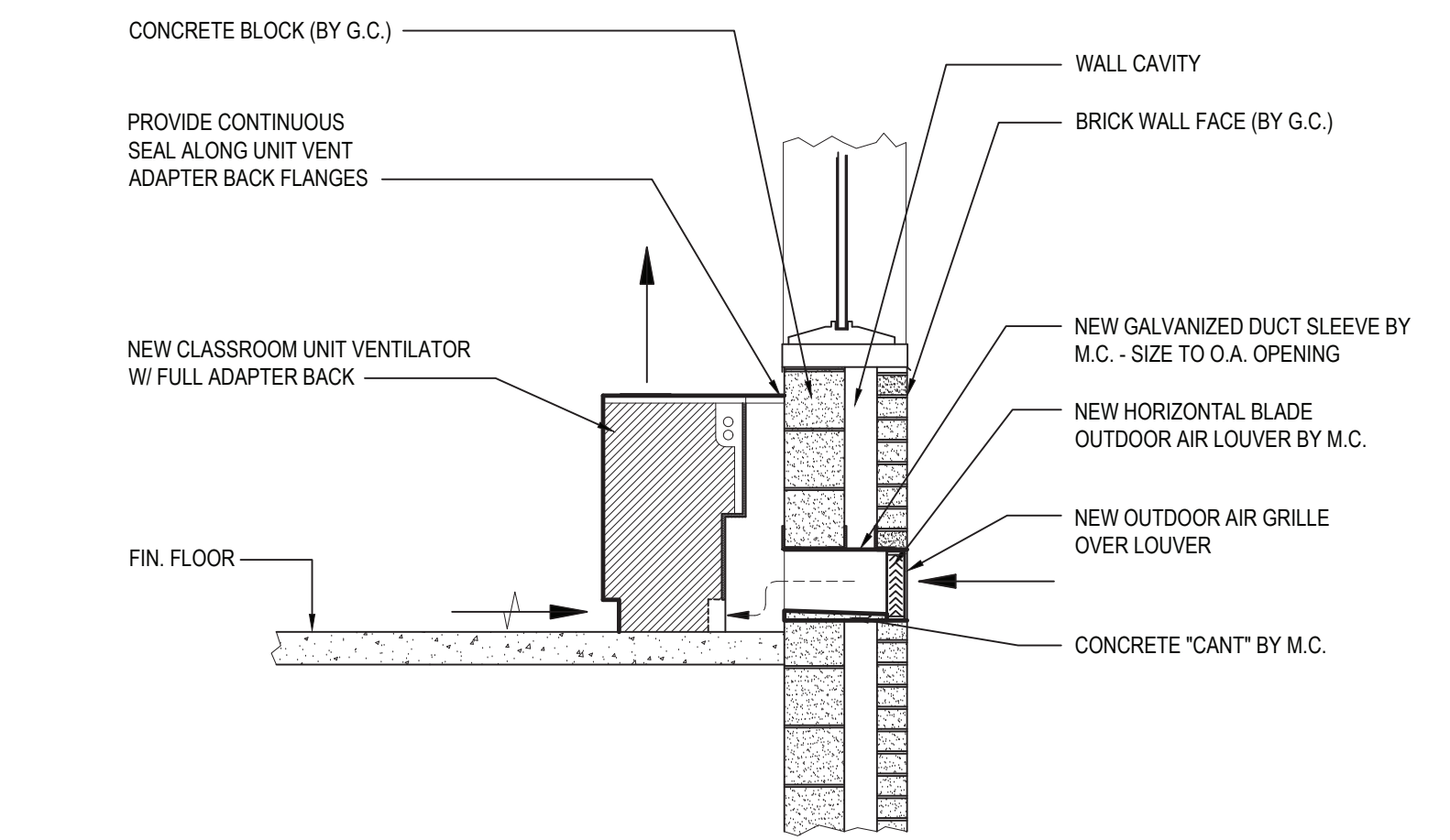
Misc Fan Data	
Fan Eff. Index (FEI)	-
Outer Velocity (ft/min)	1,452

Motor	
Motor Mounted	Yes
Size (hp)	1/2
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Operating point at Total External SP	-
Efficiency Rating	High
Windings	1
FLA (Amps)	6.4
Max. Overcurrent Protection (MCP)	8
Short Circuit Current Reg (SCCR)	5 kA

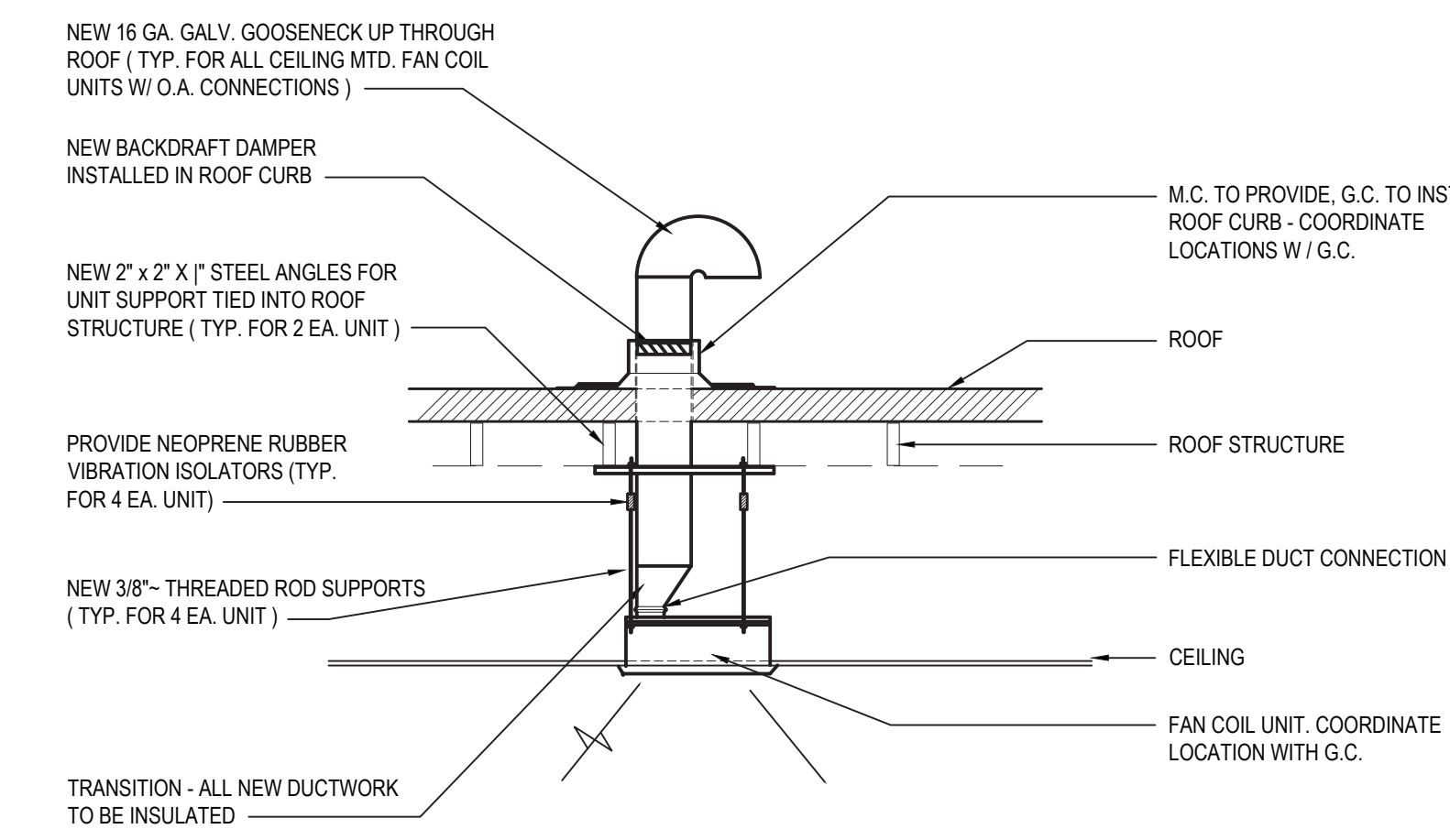
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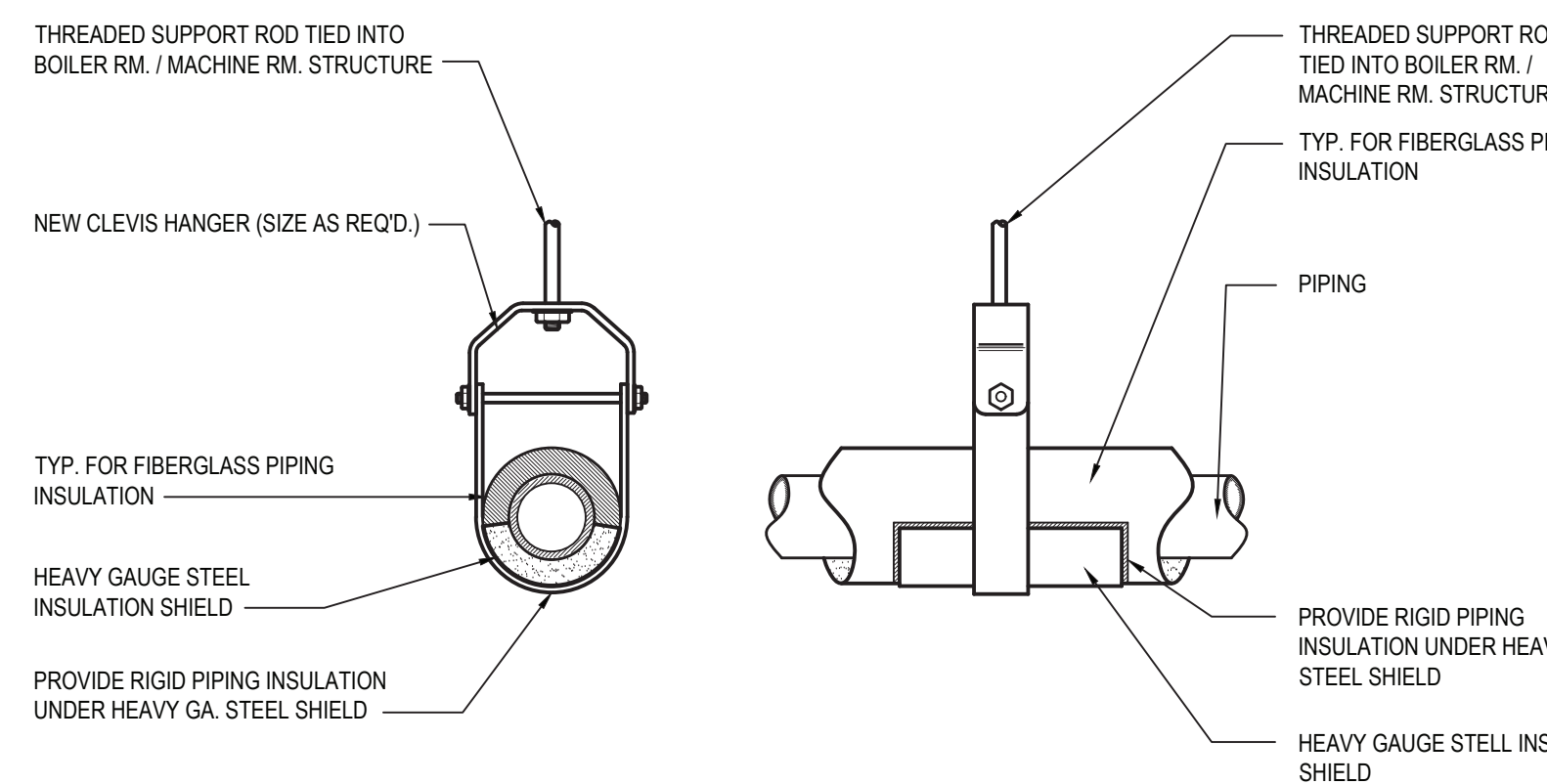
1 3 WAY HOT WATER COIL DETAIL
SCALE: N.T.S.



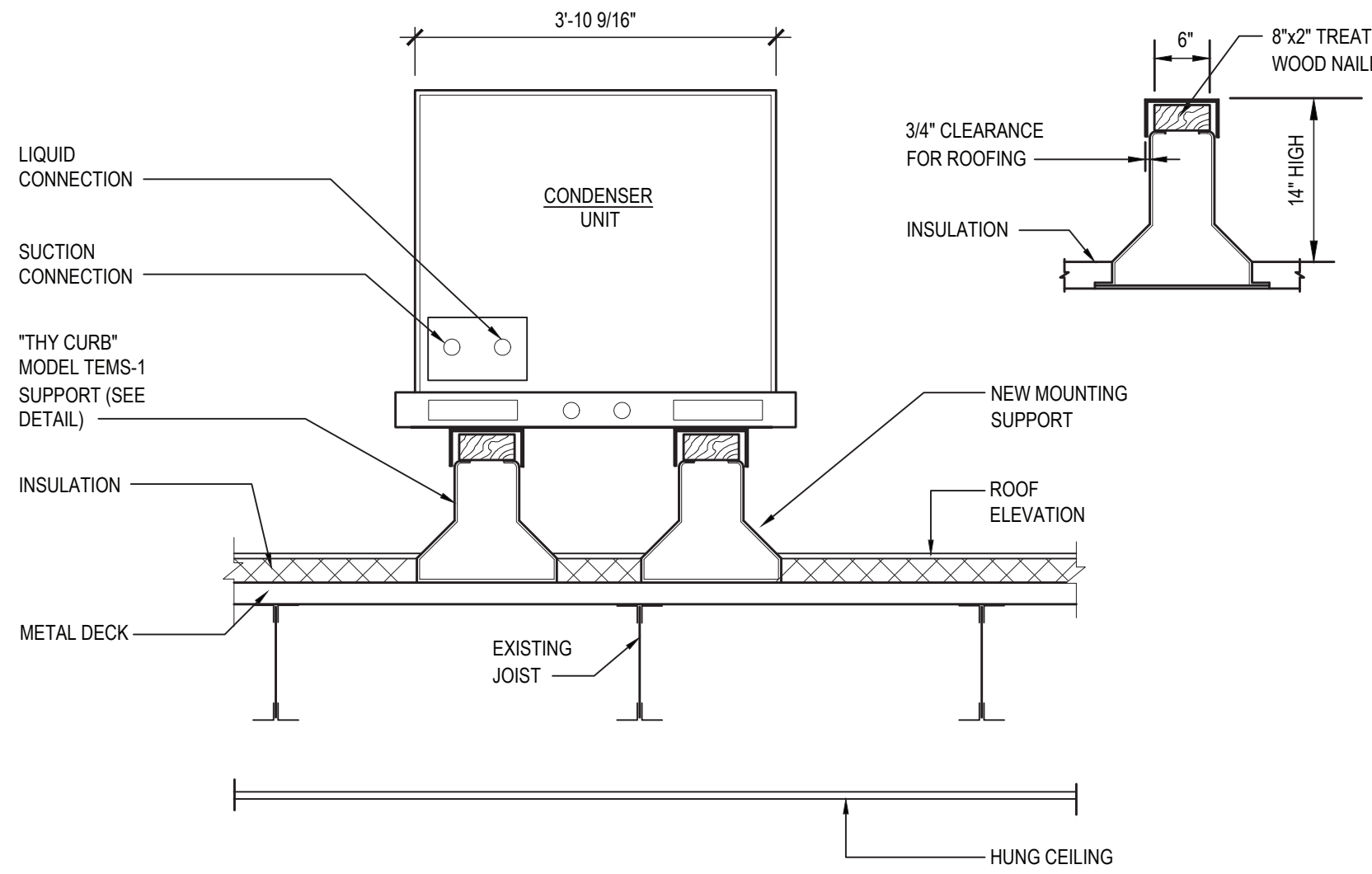
2 UNIT VENTILATOR / FAN COIL UNIT FRESH AIR INTAKE - MASONRY WALL INSTALLATION
SCALE: N.T.S.



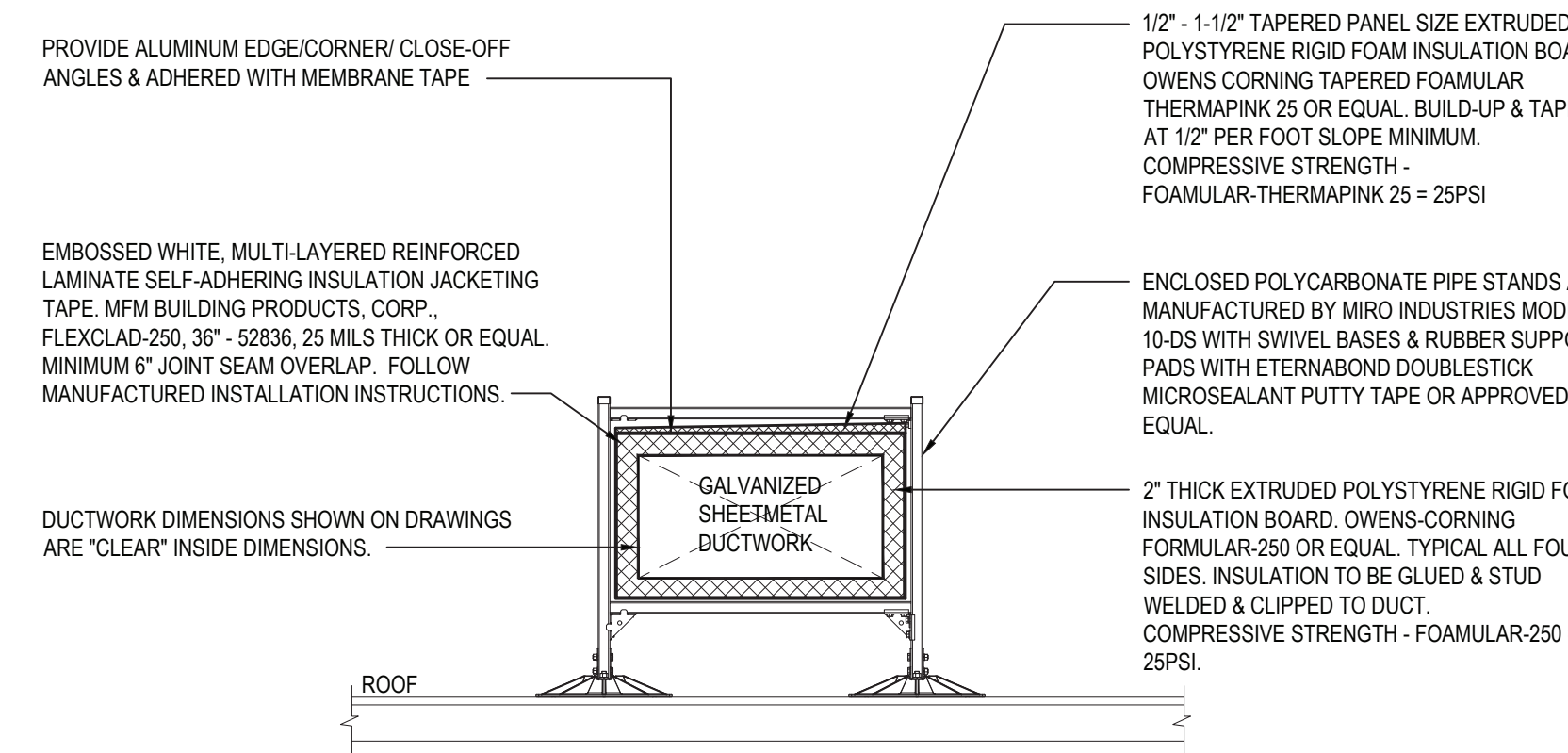
3 FAN COIL UNIT WITH FRESH AIR INTAKE
SCALE: N.T.S.



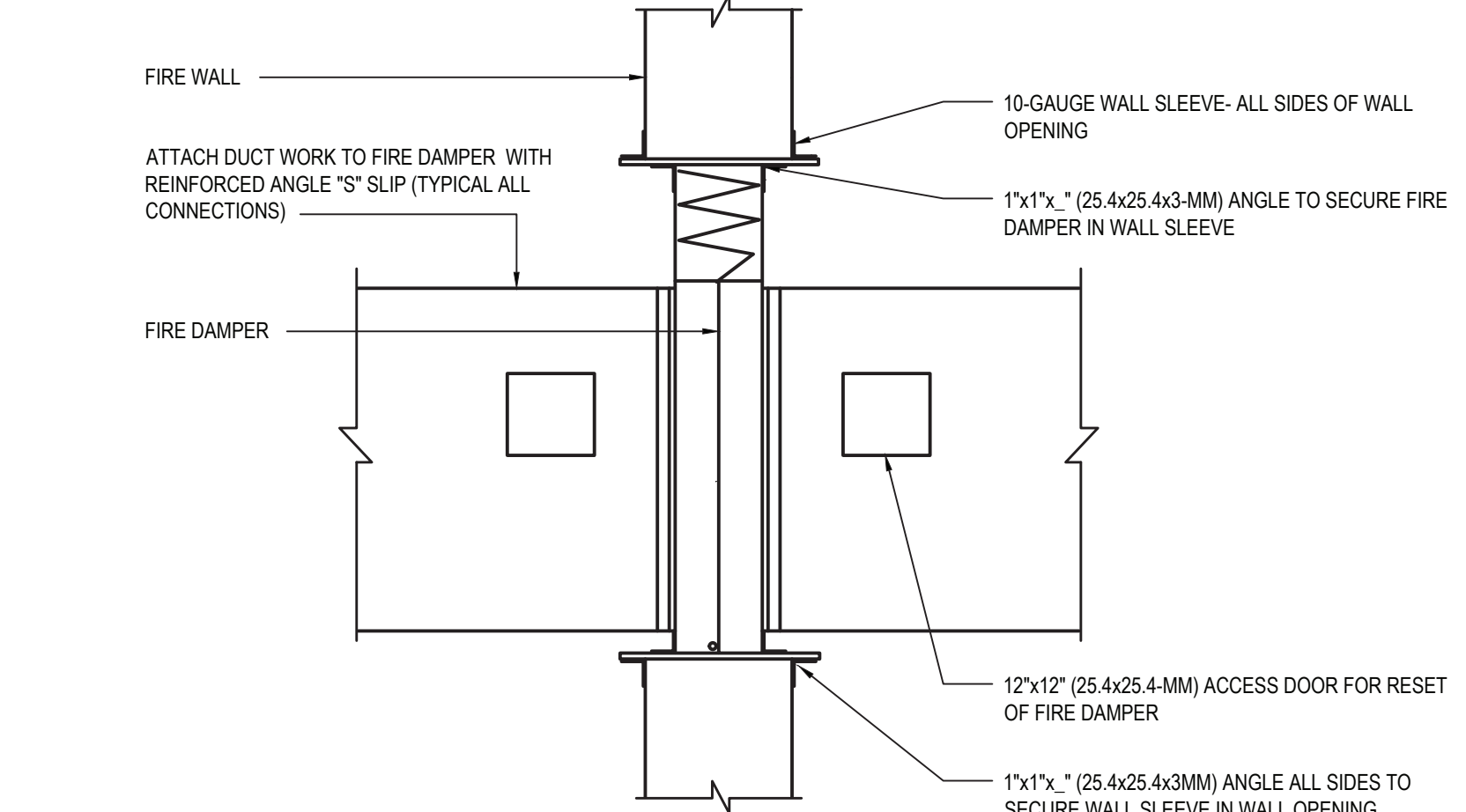
4 CLEVIS HANGER PIPING SUPPORT DETAIL
SCALE: N.T.S.



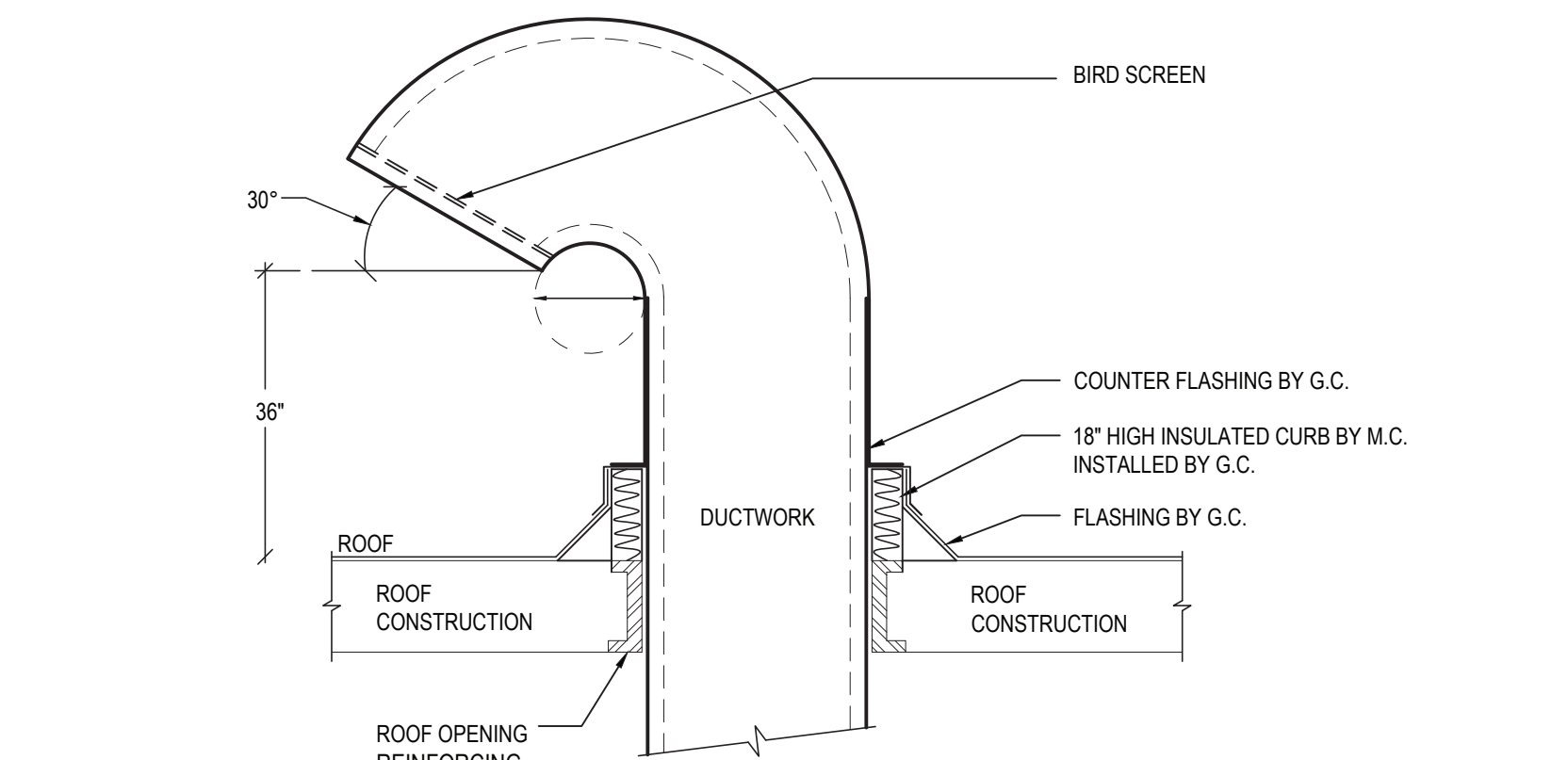
5 CONDENSER UNIT AND SUPPORT
SCALE: N.T.S.



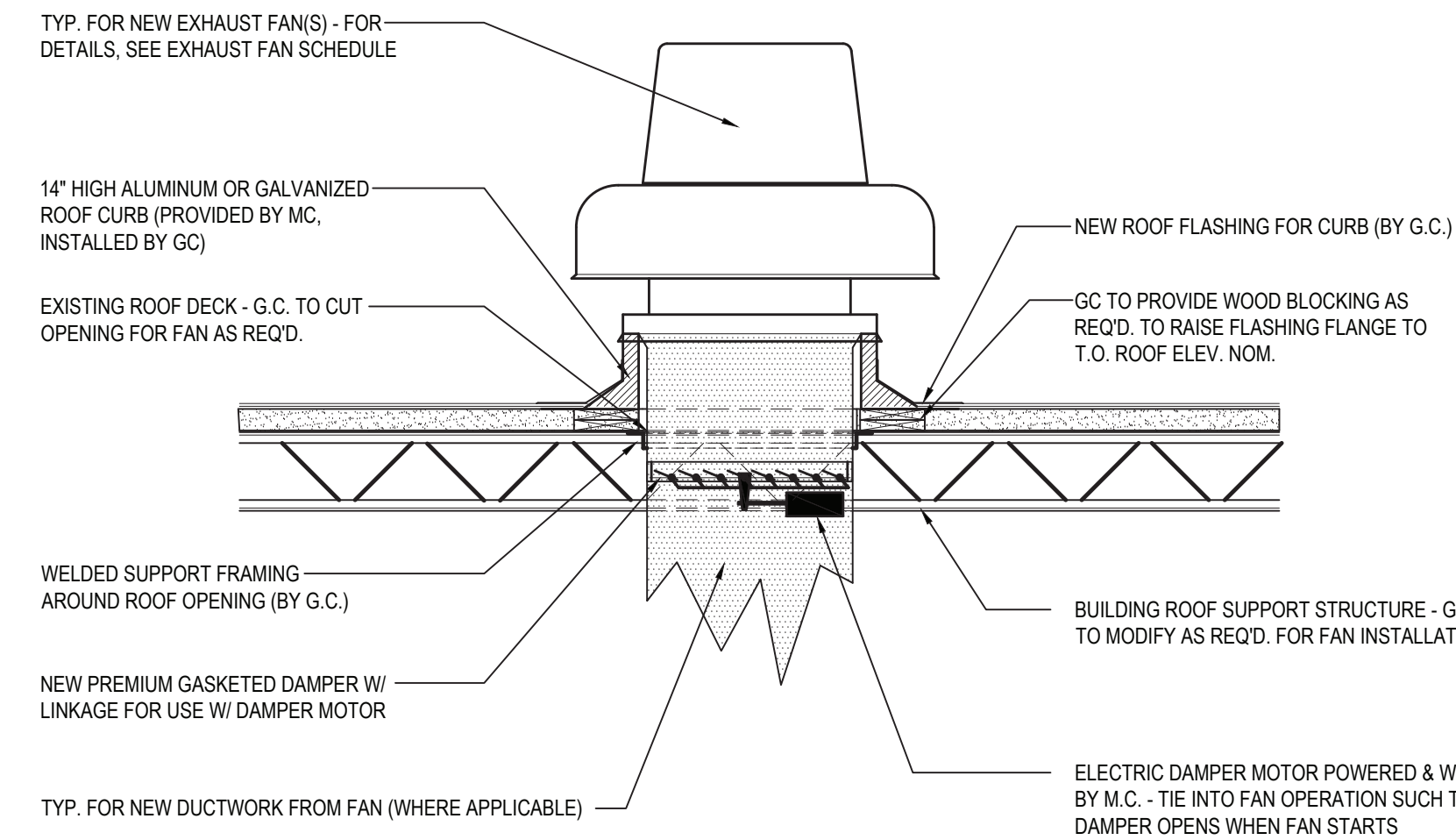
6 EXTERIOR DUCTWORK INSULATION WITH SUPPORTS
SCALE: N.T.S.



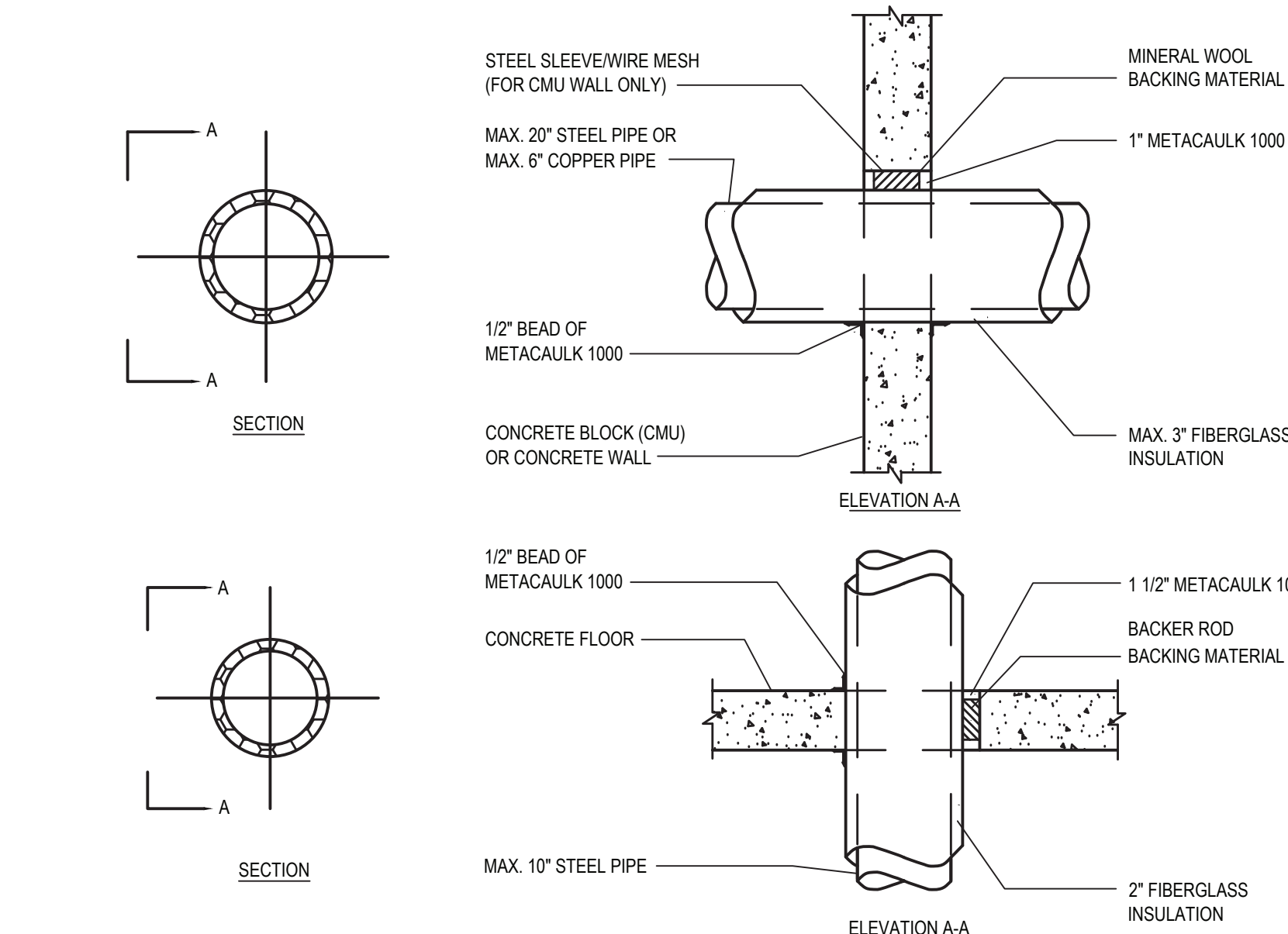
7 FIRE DAMPER IN WALL AREA FOR DUCT PENETRATION
SCALE: N.T.S.



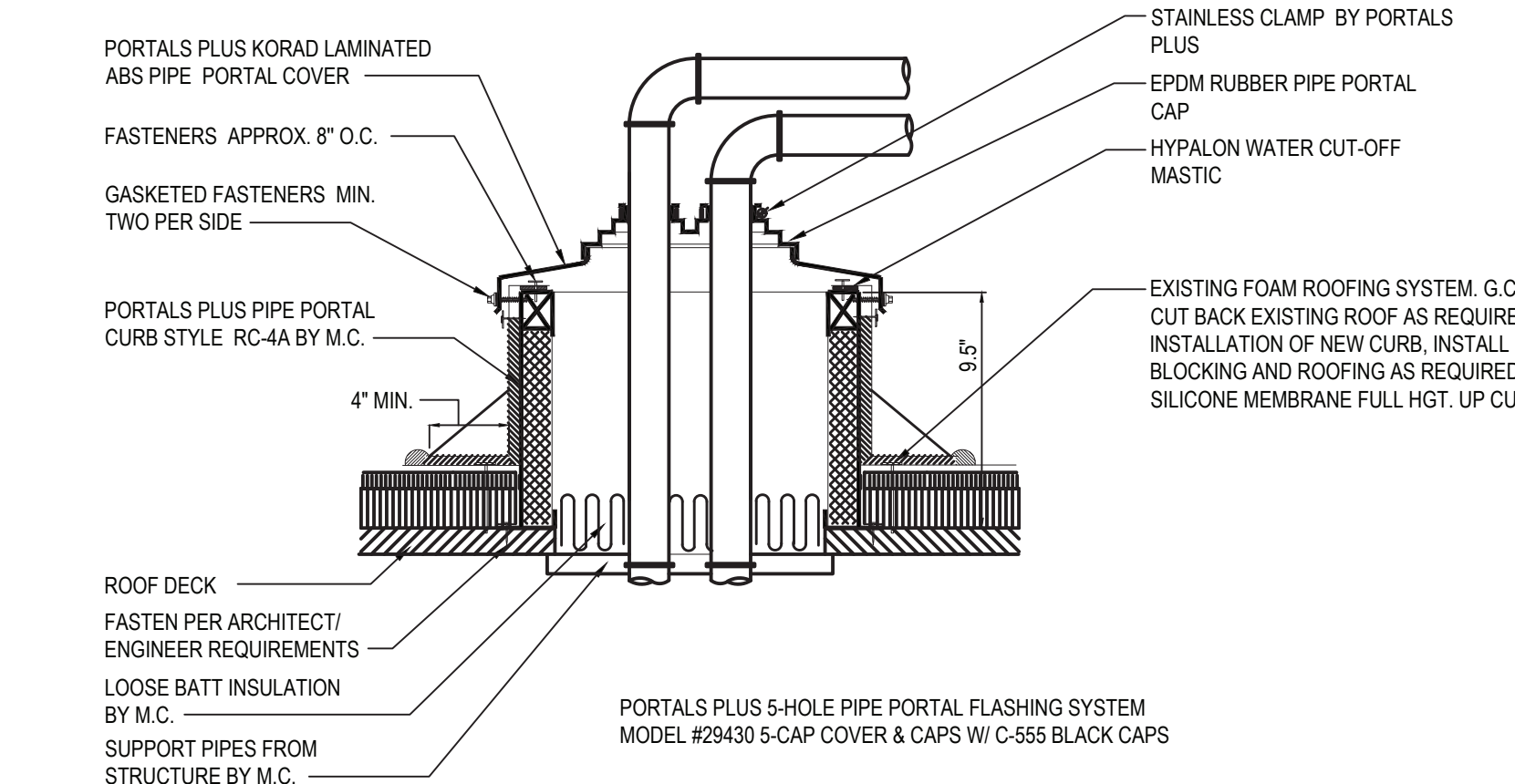
8 FRESH AIR INTAKE GOOSENECK DETAIL
SCALE: N.T.S.



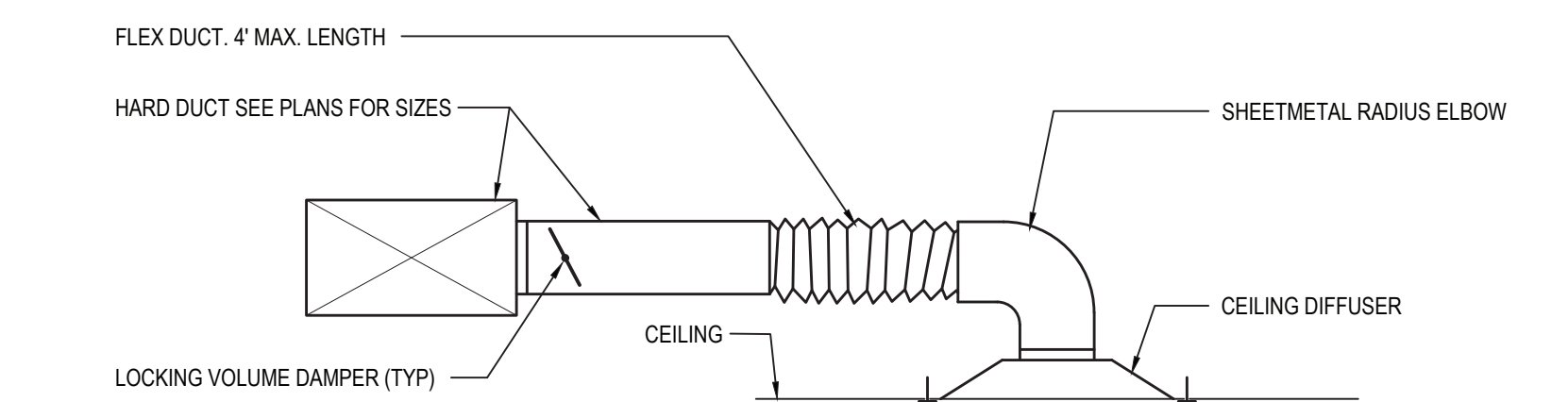
9 NEW ROOF MOUNTED EXHAUST FAN INSTALLATION
SCALE: N.T.S.



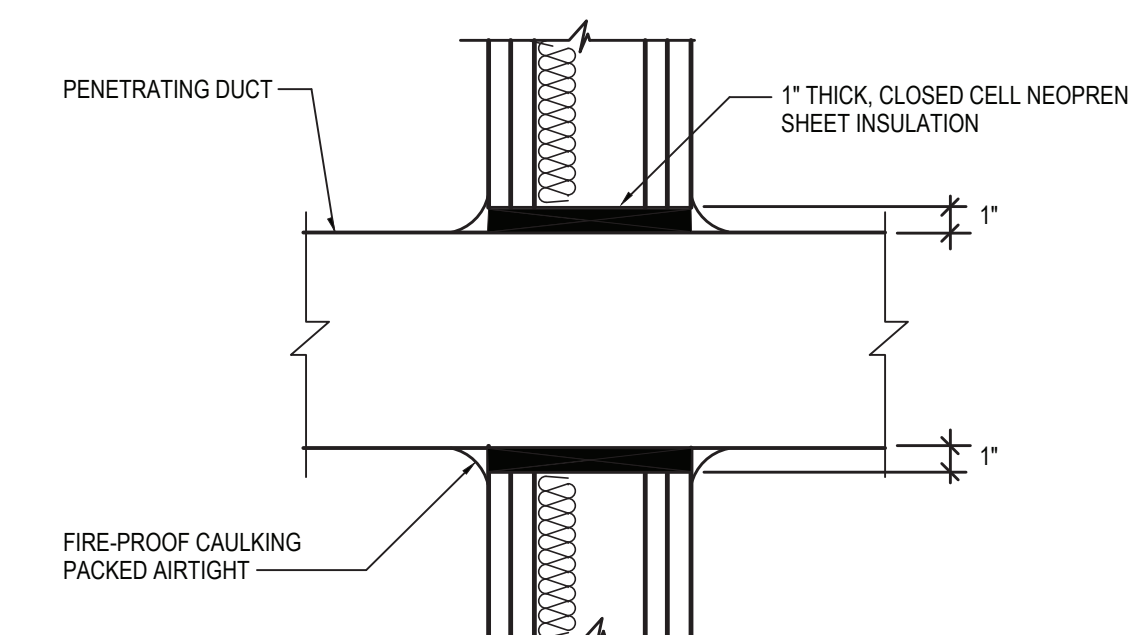
10 PIPING WALL/FLOOR PENETRATION
SCALE: N.T.S.



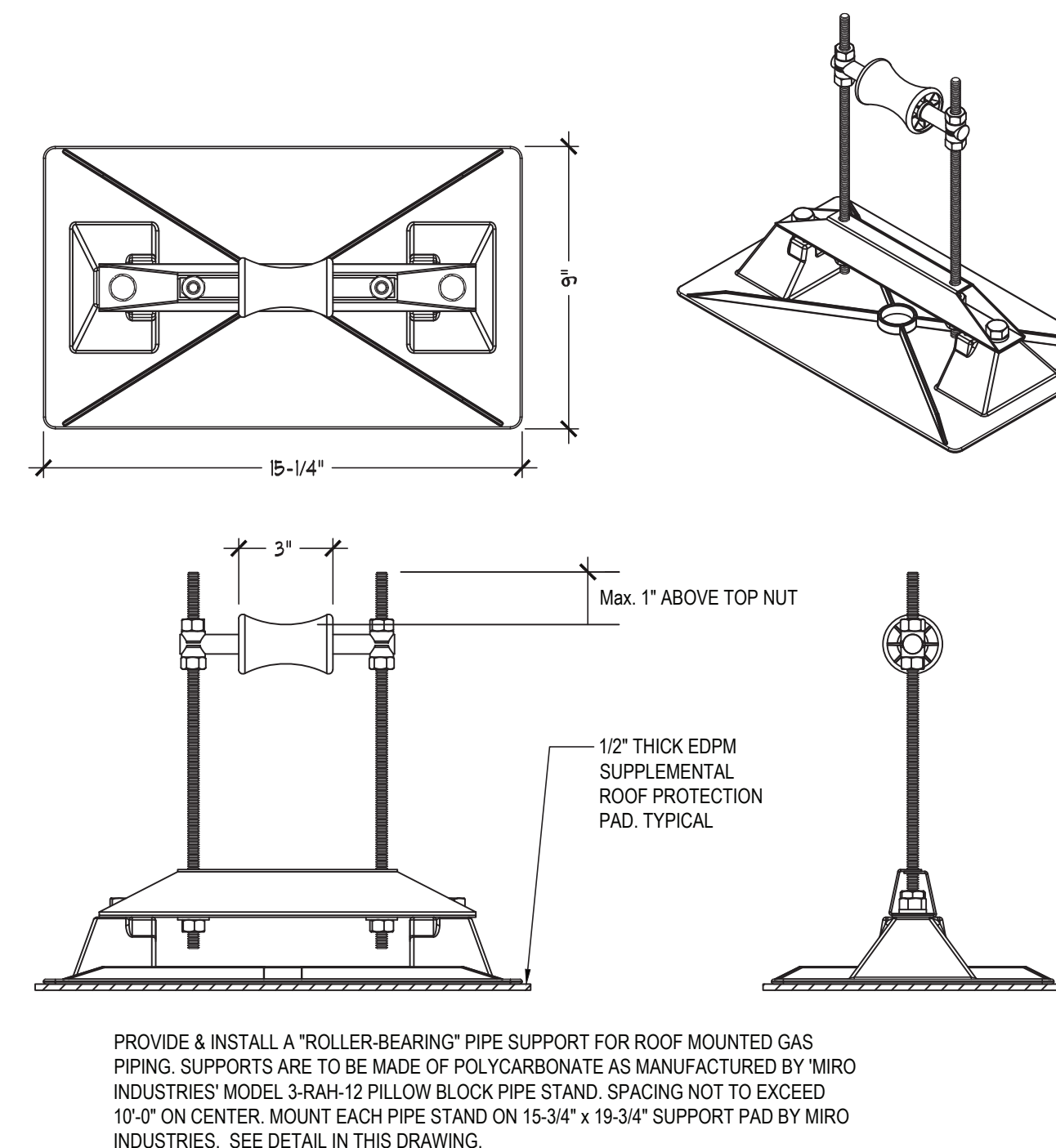
11 ROOF PIPING PENETRATION DETAIL
SCALE: N.T.S.



12 TYPICAL CEILING DIFFUSER INSTALLATION
SCALE: N.T.S.



13 TYPICAL DUCT PENETRATION
SCALE: N.T.S.



14 ROOF MOUNTED PIPING SUPPORT DETAIL
SCALE: N.T.S.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

BRIARCLIFF MANOR U.F.S.D.
PHASE 2 BOND IMPROVEMENTS
BRIARCLIFF MANOR MIDDLE/HIGH SCHOOL
444 PLEASANTVILLE RD. BRIARCLIFF MANOR, NY 10510

DWG TITLE

SCHEDULES, EQUIPMENT
NOTES AND DETAILS (10 OF 10)

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PROJECT PHASE 2 BOND IMPROVEMENTS

DWG TITLE SCHEDULES, EQUIPMENT
NOTES AND DETAILS (10 OF 10)

SCALE: AS NOTED

DATE: 7/15/22

BID PICK-UP:

FILE No. 21-274C

M6.10 **HSMS**