

DEMOLITION PLAN EL 70.50
1/4" = 1'-0"



Hazen
HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

HVAC REMOVAL
PLAN EL 70.50

DATE:	JUNE 2024
HAZEN NO.:	90462-000
CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	DH-01

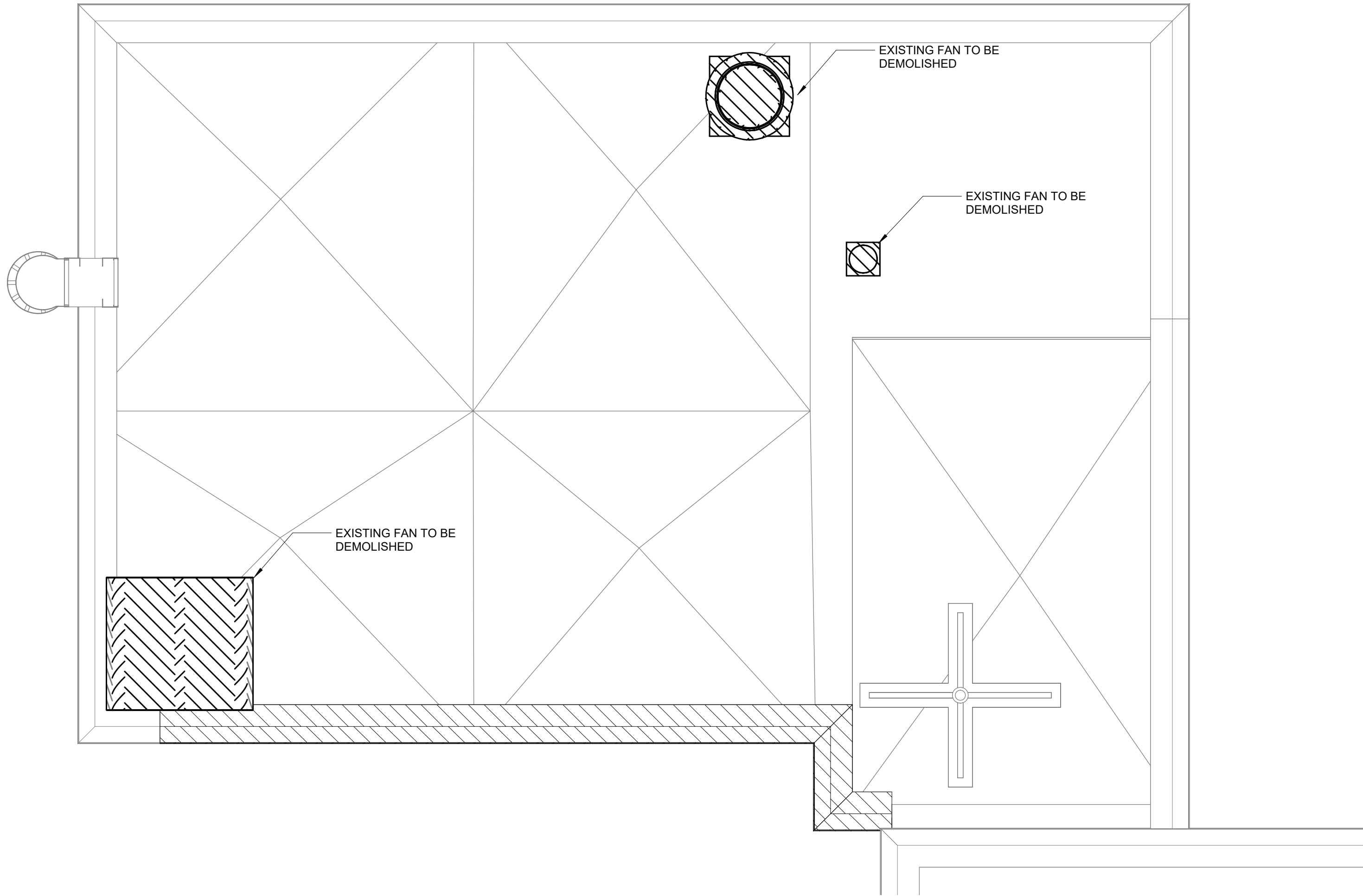
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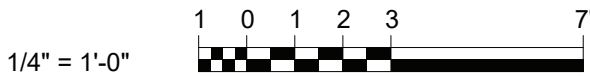
PROJECT ENGINEER:	R. FROST
DESIGNED BY:	J. ROSS
DRAWN BY:	K. TREANOR
CHECKED BY:	G. LYNCH
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

FOR BID

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DEMOLITION PLAN EL 88.00
1/4" = 1'-0"



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DRAWING NUMBER:	DH-02

GENERAL NOTES

1.

AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYS BUILDING CODE, NYS MECHANICAL CODE, 2020 NYS ENERGY CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK, IF THE CONTRACT DOCUMENTS SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.
2.

ALL WORK SHOWN ON THE DRAWINGS SHALL BE PROVIDED UNLESS OTHERWISE NOTED.
3.

DUCTWORK & PIPING IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING & DUCTWORK SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.
4.

THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION, SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
5.

THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
6.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE SIGNAGE, BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
7.

WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA.
8.

ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.
9.

THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
10.

THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTIES OF A LONGER DURATION SHALL APPLY.
11.

THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
12.

THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
13.

ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.
14.

ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
15.

ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
16.

ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8AM TO 5PM MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER. WORKING HOURS MUST BE COORDINATED WITH GENERAL CONTRACTOR. HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.
17.

ROUGH PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR
18.

LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPAILINS AND EXHAUST TO CONTAIN AIRBORNE MATERIALS.
19.

THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.
20.

THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
21.

ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
22.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK.
23.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK, AND OTHER PROPERTY.

HVAC NOTES

1.

PROVIDE SLEEVES FOR ALL DUCTS PENETRATING AND PASSING THROUGH ALL PARTITIONS, FLOORS, CEILINGS AND WALLS. ALLOW ROOM IN SLEEVE FOR INSULATION. SLEEVES SHALL BE MINIMUM OF 22 GAUGE SHEET METAL. PACK ANNULAR SPACE IN SLEEVE AROUND DUCT WITH FIRE RATED MATERIAL, SIMILAR TO THERMAFIBER. SEAL AND CAULK ALL WALL, FLOOR, CEILING AND SLAB OPENINGS WITH U.L. APPROVED FIRE RATED MATERIAL TO PREVENT TRANSMISSION OF ODORS AND SMOKE TO ADJACENT SPACES. ALL DUCT PENETRATIONS OF FIRE RATED WALLS AND SLABS SHALL BE EQUIPPED WITH FIRE/SMOKE RATED DAMPERS.
2.

CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL CEILINGS, DUCTS, CHASES AND WALLS AS REQUIRED FOR ACCESS TO ALL CONCEALED OPERATING DEVICES INCLUDING BUT NOT LIMITED TO FIRE DAMPERS, VOLUME DAMPERS,CONTROL DAMPERS AND BOXES, ETC.
3.

ALL HVAC WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE NYS MECHANICAL CODE, STATE AND LOCAL BUILDING CODES, SMACNA AND ASHRAE STANDARDS, NFPA-90A, ALL CODES AND ORDINANCES HAVING JURISDICTION, AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AT A MINIMUM.
4.

UPON COMPLETION OF ALL WORK, ALL EQUIPMENT AND DUCTWORK SHALL BE THOROUGHLY CLEANED AND LEFT IN FIRST CLASS CONDITION.
5.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EQUIPMENT UNTIL FINAL ACCEPTANCE BY THE ENGINEER.
6.







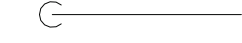
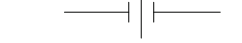

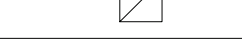
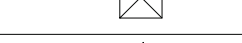
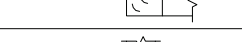
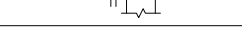
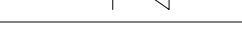
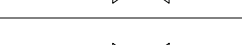
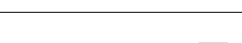
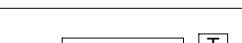
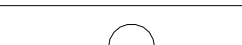

ALL EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES, MANUFACTURER SPECIFICATIONS, AND TO THE SATISFACTION OF THE ENGINEER.
7.

BALANCE AND ADJUST AIRFLOW TO REGISTERS AND GRILLES AS INDICATED ON DRAWINGS. ALL SYSTEMS SHALL BE BALANCED TO WITHIN 10% OF DESIGN FLOW WITH REPORT SUBMITTED TO OWNER. BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED BALANCING CONTRACTOR WHO IS CERTIFIED BY AABC OR NEBB. SUBMIT BALANCING REPORT TO ENGINEER FOR APPROVAL.
8.

CONTRACTOR SHALL PROVIDE ALL CONTROLS AND CONTROL WIRING AS REQUIRED FOR COMPLETE CONTROL OF EQUIPMENT FOR A COMPLETE FUNCTIONING SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR STANDARDS OF CONSTRUCTION.
9.

INSTALL ALL REQUIRED APPURTENANCES PER CODE WHETHER SPECIFIED OR NOT FOR COMPLETE FUNCTIONING SYSTEMS.

LEGEND

SYMBOL	DESCRIPTION
	EXISTING WORK BY OTHERS
	WORK TO BE PROVIDED
	WORK TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	RISER
	ELBOW DOWN
	UNION
	EXHAUST DUCT
	RETURN DUCT
	SUPPLY DUCT
	DUCT ELBOW WITH TURNING VANES
	AIR TERMINAL
	CHECK VALVE
	GLOBE VALVE
	GATE VALVE
	MOTORIZED OPERATED DAMPER
	DUCT MOUNTED TEMPERATURE SENSOR
	THERMOSTAT
DPS	DIFFERENTIAL PRESSURE SWITCH
SA	SUPPLY AIR
EA	EXHAUST AIR
OC	ODOR CONTROL
OA	OUTSIDE AIR
RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
RAG	RETURN AIR GRILLE
EAG	EXHAUST AIR GRILLE
SAG	SUPPLY AIR GRILLE
EF-1	DENOTES EXHAUST FAN NO. 1
EUH-1	DENOTES ELECTRIC UNIT HEATER NO. 1
L-1	DENOTES LOUVER NO. 1
SF-1	DENOTES SUPPLY FAN NO. 1

NOTE: ALL WORK IS TO BE PROVIDED UNLESS OTHERWISE NOTED



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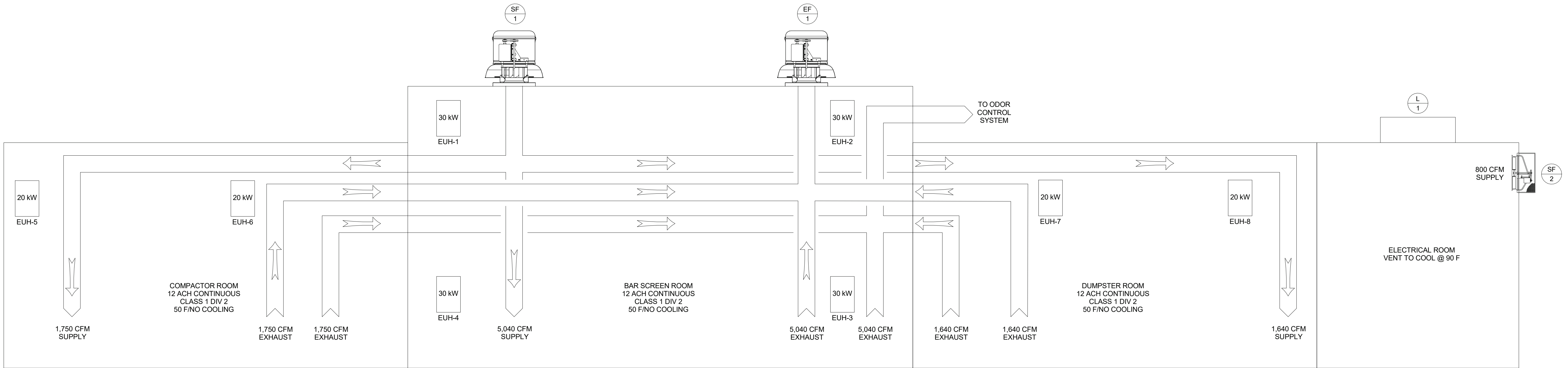
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ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

HVAC
LEGEND AND NOTES

DATE:	JUNE 2024
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CONT NO.:	RFB-RC-SWR-2023-06
DRAWING NUMBER:	H-01



AIRFLOW DIAGRAM
NO SCALE



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HVAC
AIRFLOW DIAGRAM

DATE: JUNE 2024
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DRAWING NUMBER: H-02

FAN SCHEDULE

TAG	NAME	ROOM LOCATION	ARRANGEMENT	AIRFLOW (CFM)	ESP	RPM	BHP	HP	FEG	VOLTAGE	PHASE	FREQUENCY	dBA	WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	COMMENTS
SF-1	BAR SCREEN SUPPLY FAN	BAR SCREEN ROOM	ROOF TOP SUPPLY FAN	8,430	1 IN WC	1995	3.996	5	75	460	3	60	75	662	COOK	225QMXS	2, 3, 4
EF-1	BAR SCREEN EXHAUST FAN	BAR SCREEN ROOM	ROOF TOP EXHAUST FAN	8,430	1 IN WC	2078	4.731	7 1/2	67	460	3	60	76	598	COOK	225QMXE	1, 2, 3, 4
SF-2	ELECTRICAL ROOM SUPPLY FAN	ELECTRICAL ROOM	PROPELLER WALL SUPPLY FAN	930	.33 IN WC	860	0.130	1/2	-	460	3	60	64	73	COOK	24EWS612D08	

NOTES:

1. FAN TO BE STANDBY
2. FAN SHALL BE SPARK RESISTANT B
3. EXPLOSION PROOF
4. PROVIDE WITH CURB ADAPTER AS REQUIRED TO MATCH EXISTING 32"x32" ROOF OPENING.

ELECTRIC UNIT HEATER SCHEDULE

NAME	ROOM LOCATION	VOLTAGE	POWER (KW)	CAPACITY (MBH)	MOTOR HP	CFM	HORIZ. AIR THROW (ft.)	WEIGHT (LBS)	MANUFACTURER	AREA CLASSIFICATION	COMMENTS
EUH-1, EUH-2, EUH-3, EUH-4	BAR SCREEN ROOM	480/3/60	30	102.3	30	2,330	54	216	QMARK GUX30004832	CLASS 1, DIV. 2, GROUP D	1, 2, 3
EUH-5, EUH-6	DUMPSTER ROOM	480/3/60	20	68.2	20	1,400	43	171	QMARK GUX20004832	CLASS 1, DIV. 2, GROUP D	1, 2, 3
EUH-7, EUH-8	COMPACTOR ROOM	480/3/60	20	68.2	20	1,400	43	171	QMARK GUX20004832	CLASS 1, DIV. 2, GROUP D	1, 2, 3

NOTES:

1. UNIT SHALL BE EXPLOSION PROOF
2. PROVIDE UNIT WITH DISCONNECT
3. PROVIDE UNIT WITH INTEGRAL THERMOSTAT

AIR TERMINALS

UNIT NO.	NO.	LOCATION	CFM (MAX/MIN)	ESP ("WG)	DIMENSIONS LxW (INCHES)	BLADE SPACING (INCHES)	MATERIAL	NC	THROW (FEET)	MFR. & MODEL NO.	REMARKS
SG-1	4	BAR SCREEN ROOM	1260	.183	18x12	3/4"	ALUMINUM	35	45	TITUS 301RL	1
EG-1	8	BAR SCREEN ROOM	1260	.099	24x12	3/4"	ALUMINUM	35	-	TITUS 350R	1
SG-2	2	COMPACTOR ROOM	875	.183	12x12	3/4"	ALUMINUM	35	40	TITUS 301RL	1
EG-2	4	COMPACTOR ROOM	875	.130	18x10	3/4"	ALUMINUM	35	-	TITUS 350R	1
SG-3	2	DUMPSTER ROOM	820	.183	18x8	3/4"	ALUMINUM	40	40	TITUS 301RL	1
EG-3	4	DUMPSTER ROOM	820	.130	18x10	3/4"	ALUMINUM	40	-	TITUS 350R	1
EG-4	1	ELECTRICAL ROOM	925	.263	22x6	3/4"	ALUMINUM	40	-	TITUS 350R	1

NOTES:

- ## 1. COORDINATE GRILLE INSTALLATION WITH OTHER TRADES

LOUVER PENTHOUSE SCHEDULE

NAME	HOOD SIZE	CURB CAP SIZE	HEIGHT	MINIMUM FREE AREA (SQ. IN.)	STATIC PRESSURE DROP	MFR. & MODEL NUMBER	REMARKS
L-1	23.75"x 23.75"	17.5." x 17.5"	9"	144	0.15"	TRE RELIEF DUCTED 12x12x2	1, 2

NOTES:

1. PROVIDE UNIT WITH MANUFACTURERS ROOF CURB
2. PROVIDE UNIT WITH BIRDSCREEN



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HVAC SCHEDULES

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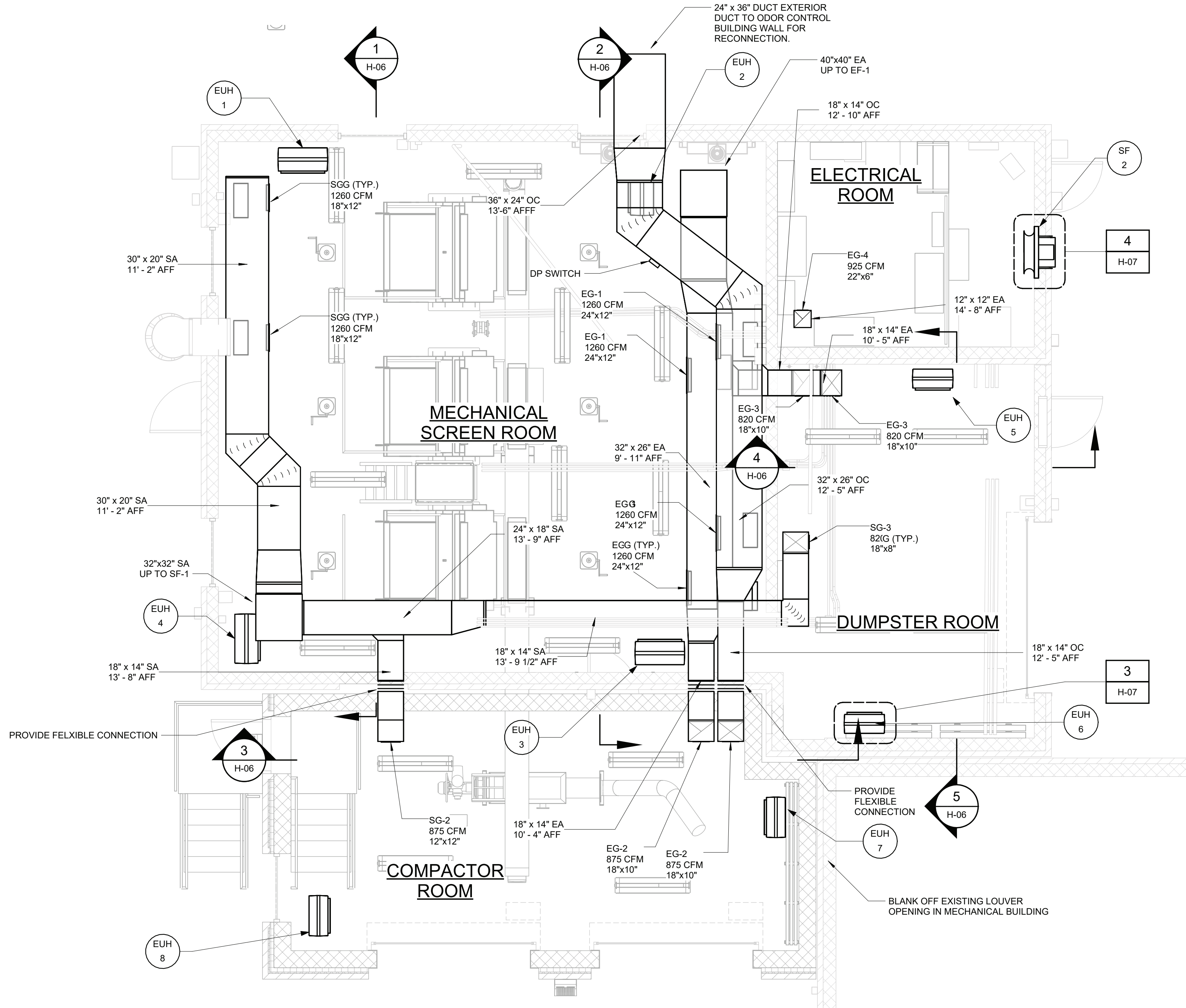
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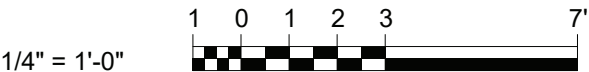
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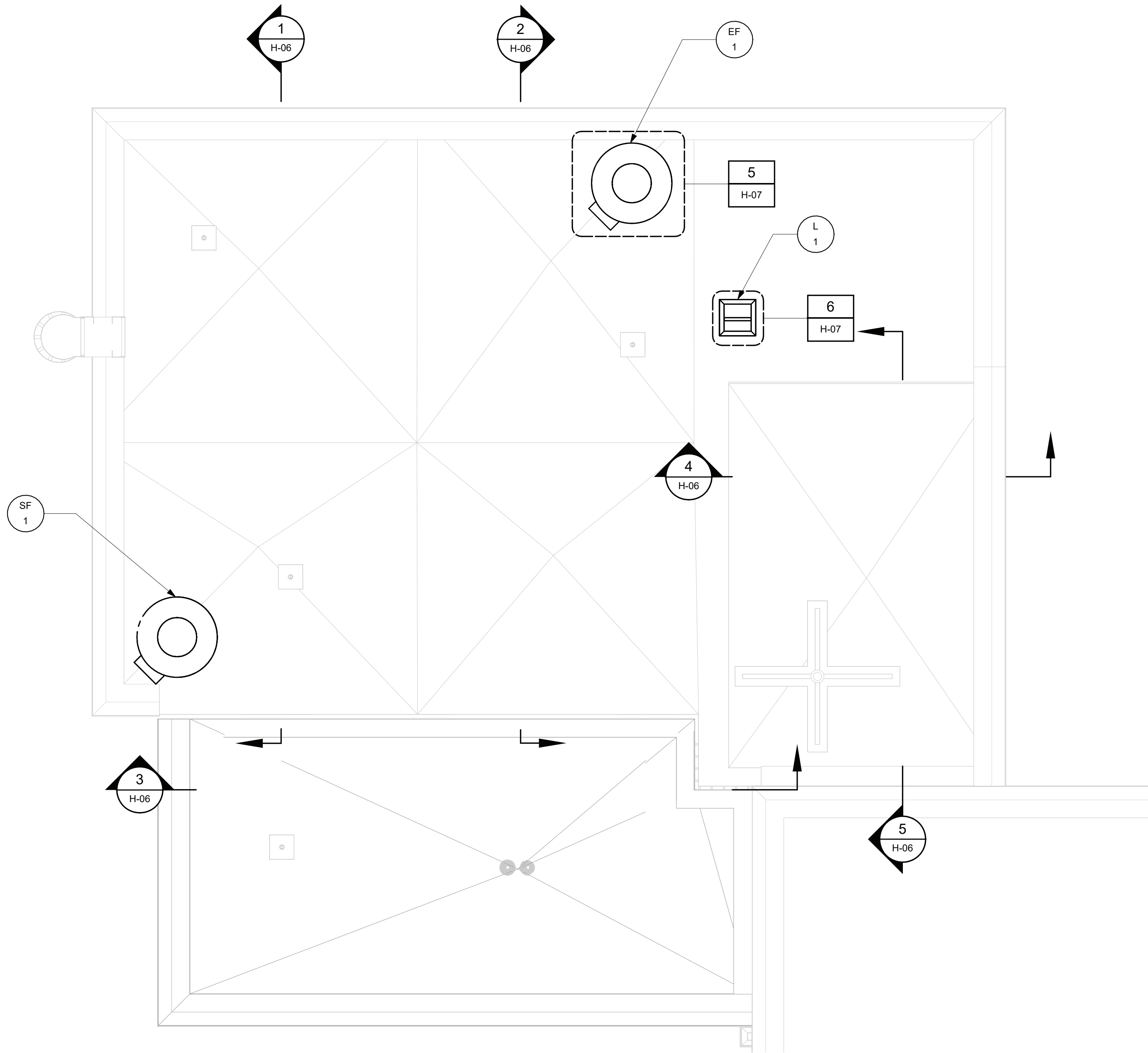
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PLAN EL 70.50

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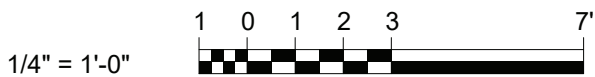
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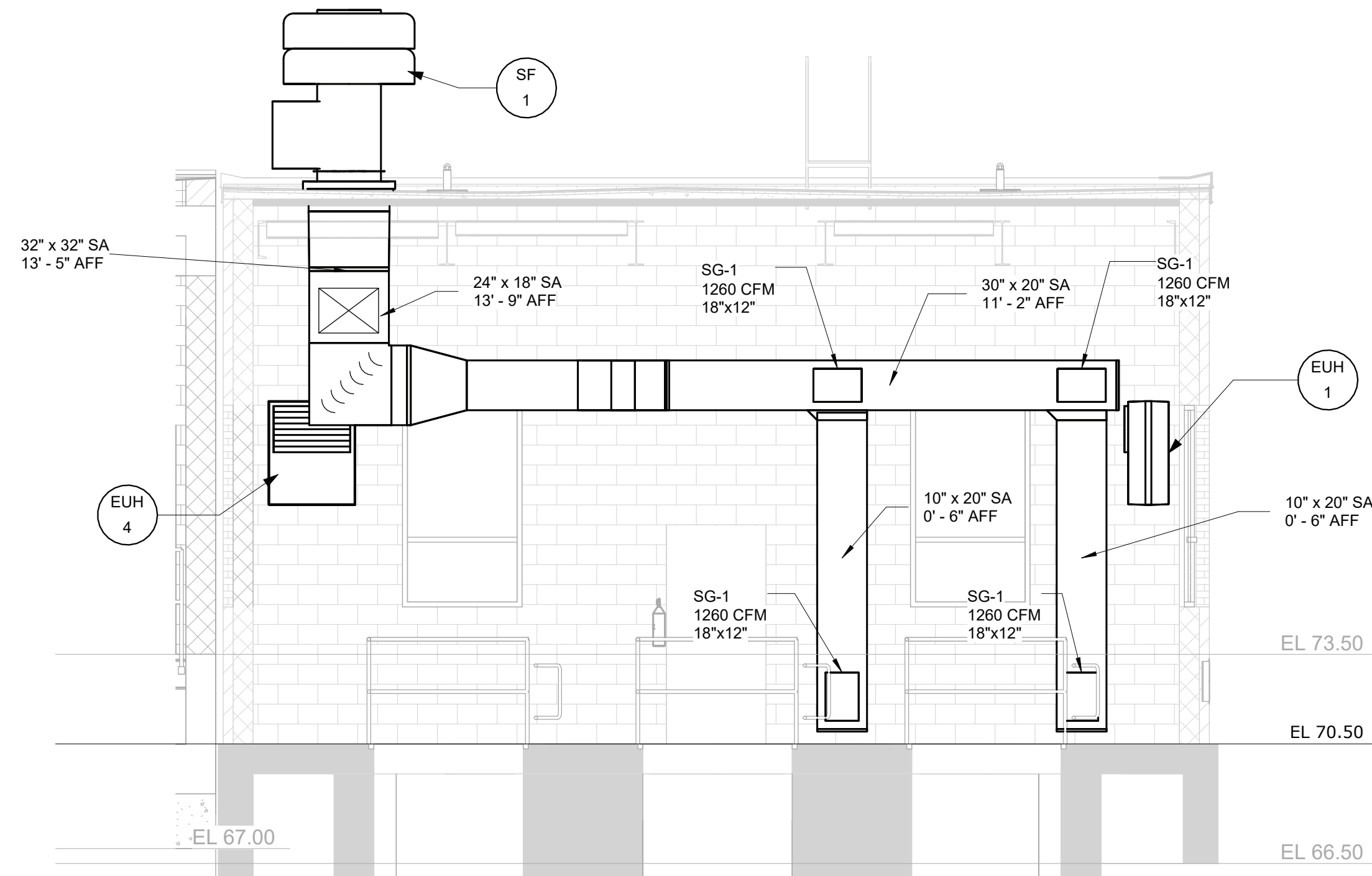
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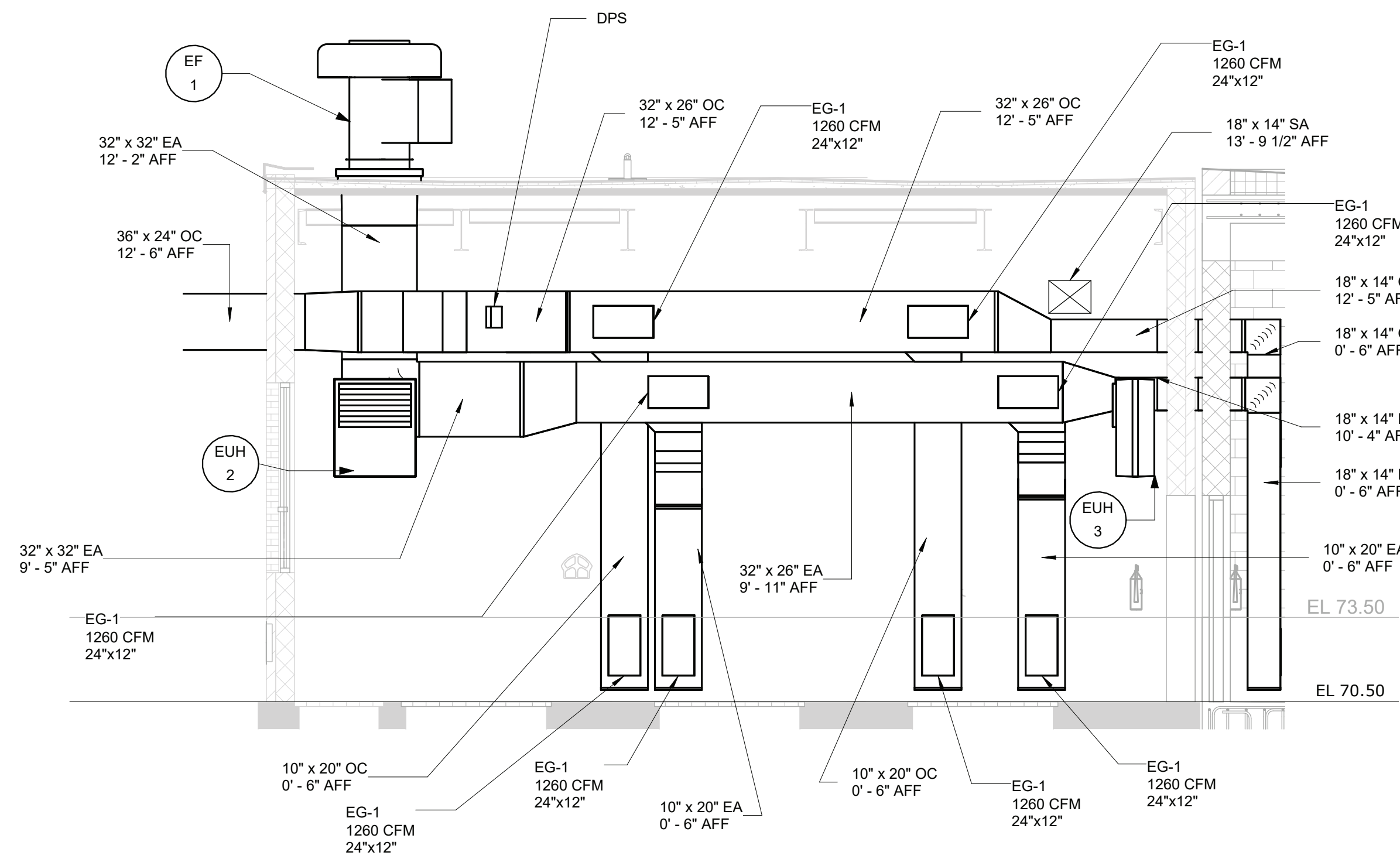


BAR SCREEN
ROOM SUPPLY

SECTION 1

1/4" = 1'-0"

H-04

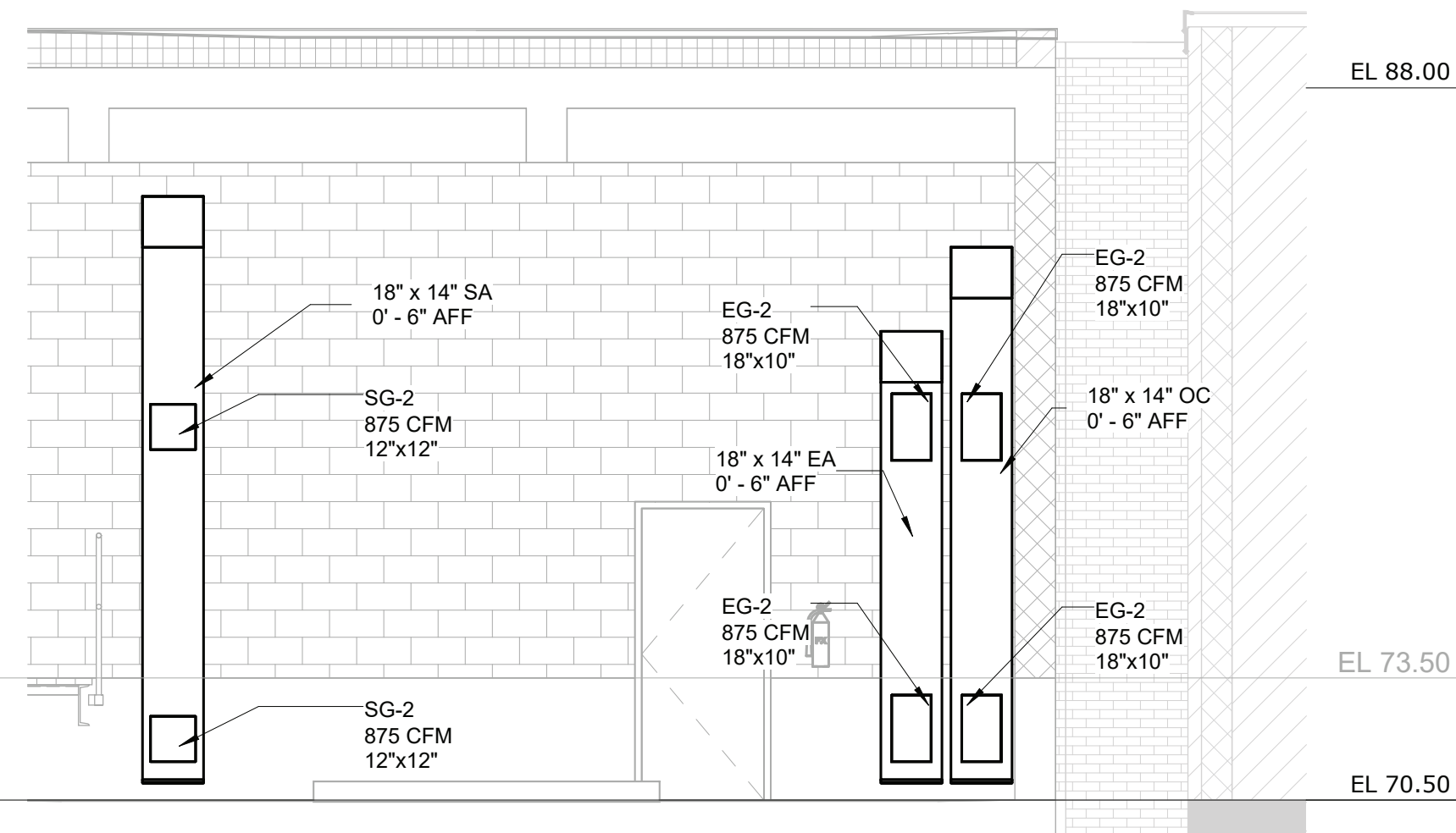


BAR SCREEN
ROOM EXHAUST

SECTION 2

1/4" = 1'-0"

H-04

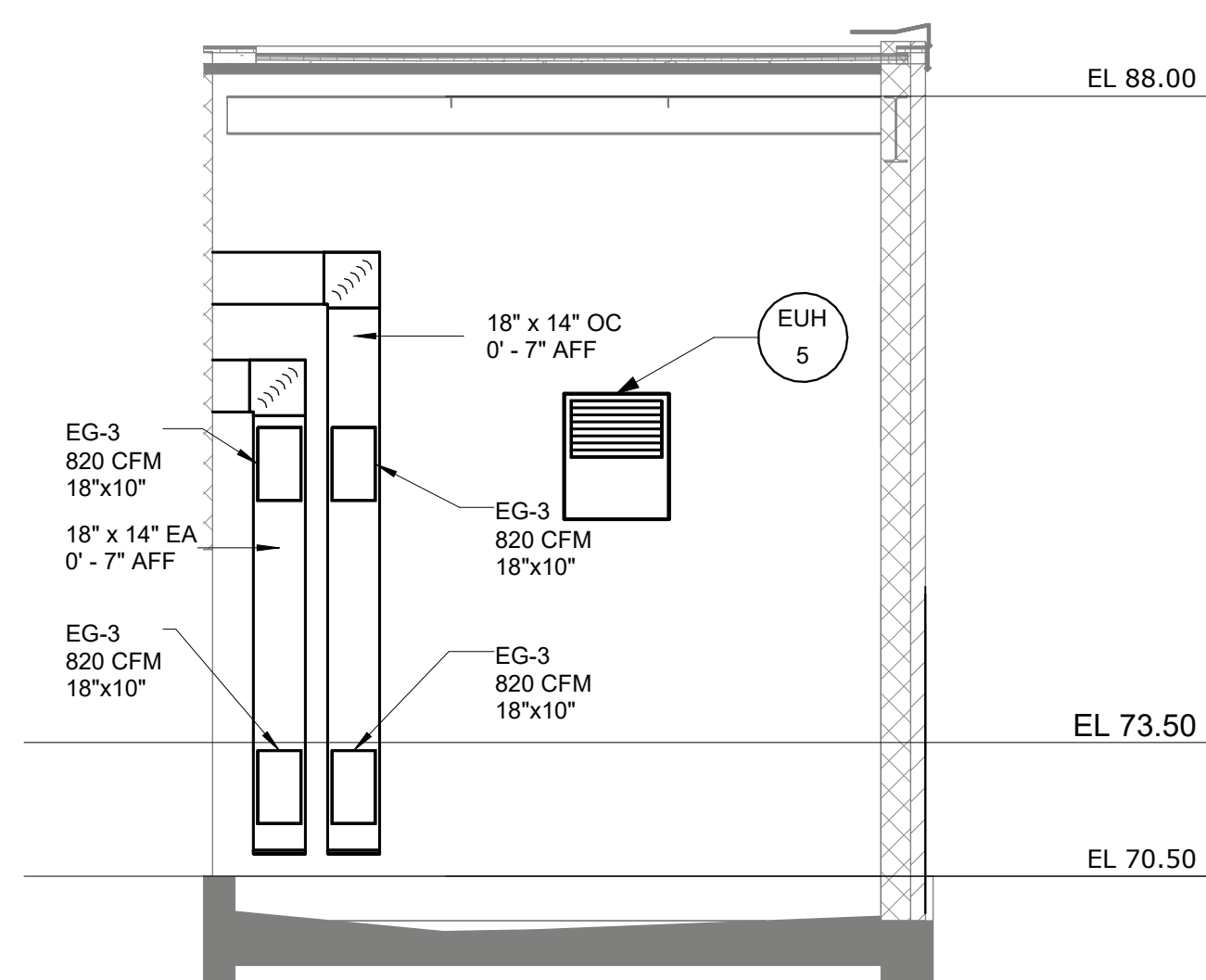


COMPACTOR
ROOM

SECTION 3

1/4" = 1'-0"

H-04

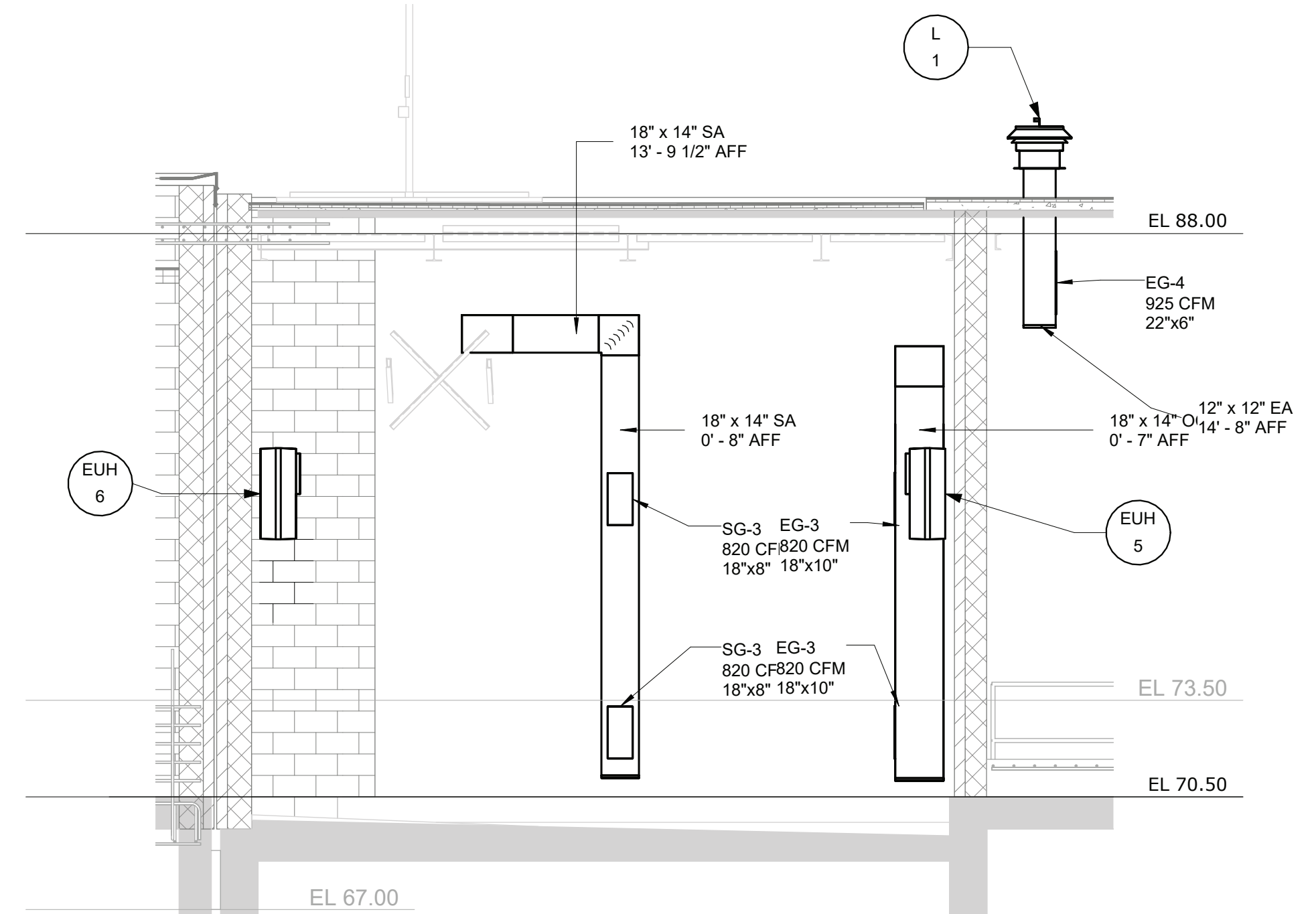


DUMPSTER
ROOM NORTH

SECTION 4

1/4" = 1'-0"

H-04



DUMPSTER
ROOM WEST

SECTION 5

1/4" = 1'-0"

H-04

EDR
a better environment



Hazen

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HVAC
SECTIONS

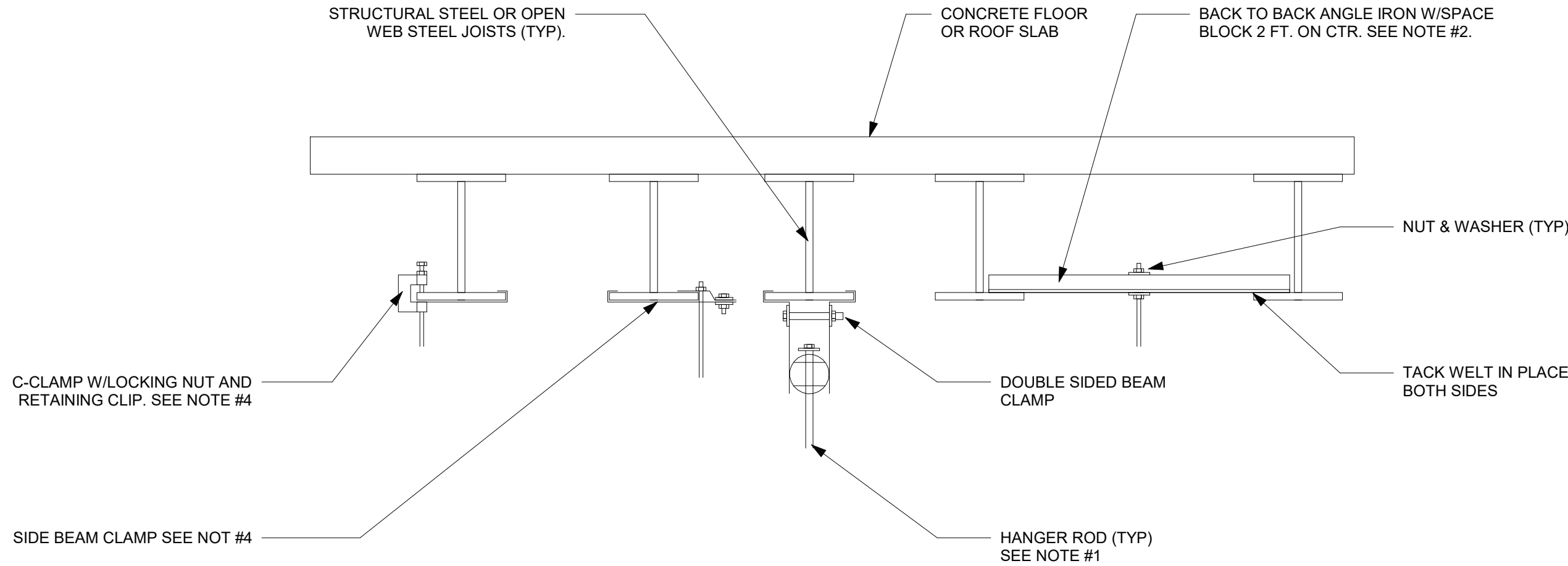
DATE: JUNE 2024

HAZEN NO.: 90462-000

CONT NO.: RFB-RC-SWR-2023-06

DRAWING
NUMBER:

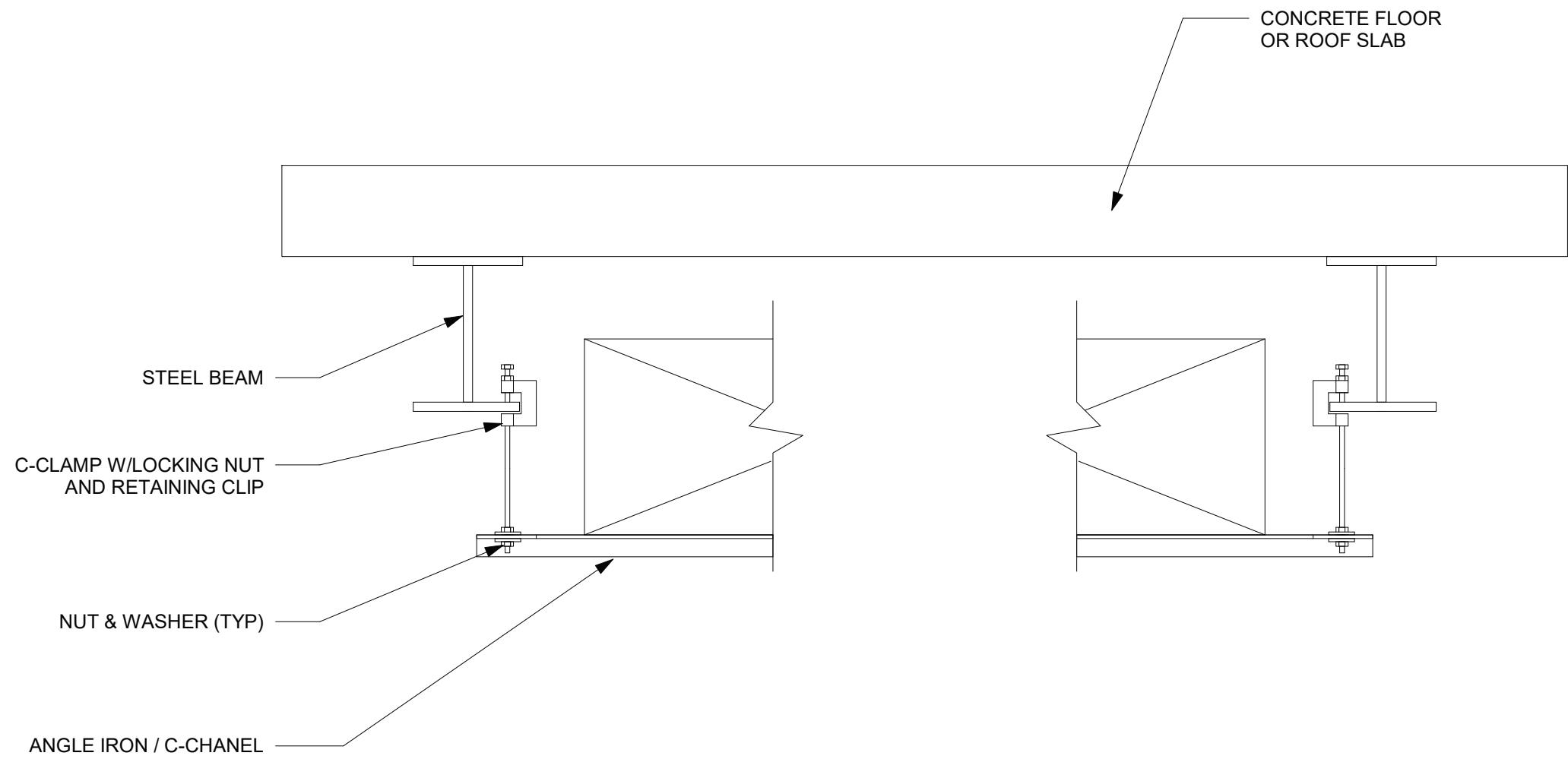
H-06



- NOTES:
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
 2. FOR PIPES UNDER 2" US A SINGLE 1-1/2"x1-1/2"x1/4" ANGLE IRON WITH C-CLAMP. FOR PIPES 2-1/2" AND LARGER USE 3"x2"x1/4" ANGLE IRON BACK TO BACK AS SHOWN.
 3. REPAIR OF FIRE PROOFING IN ORDER TO FACILITATE THE INSTALLATION OF HANGER RODS IN EXISTING CONSTRUCTION SHALL BE BY THE CONTRACTOR.
 4. USE OF C-CLAMPS AND SIDE BEAM CLAMPS LIMITED TO PIPING 2-1/2" AND UNDER.

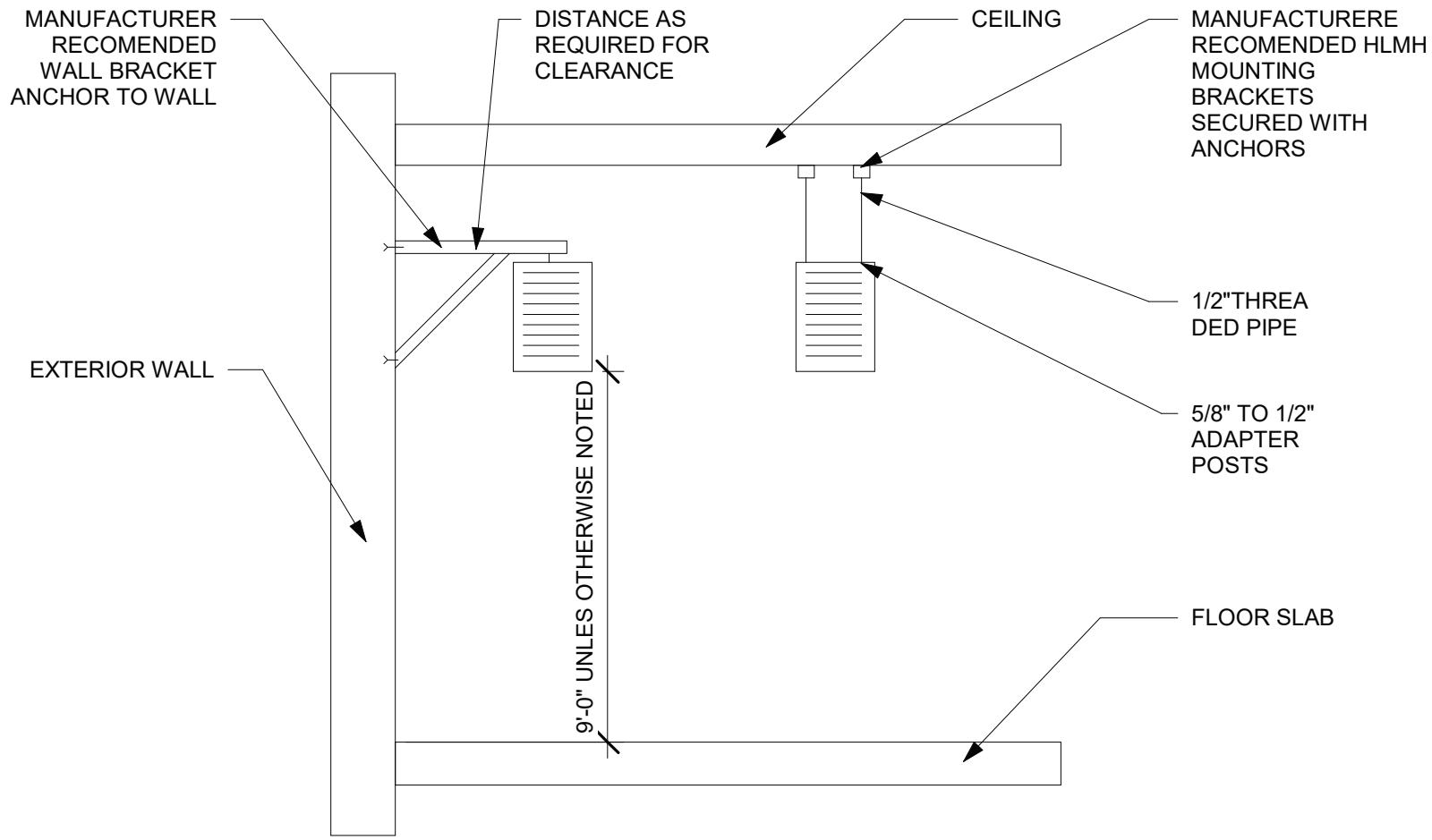
TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL

DETAIL	1
NTS	-



DUCT HANGER DETAIL

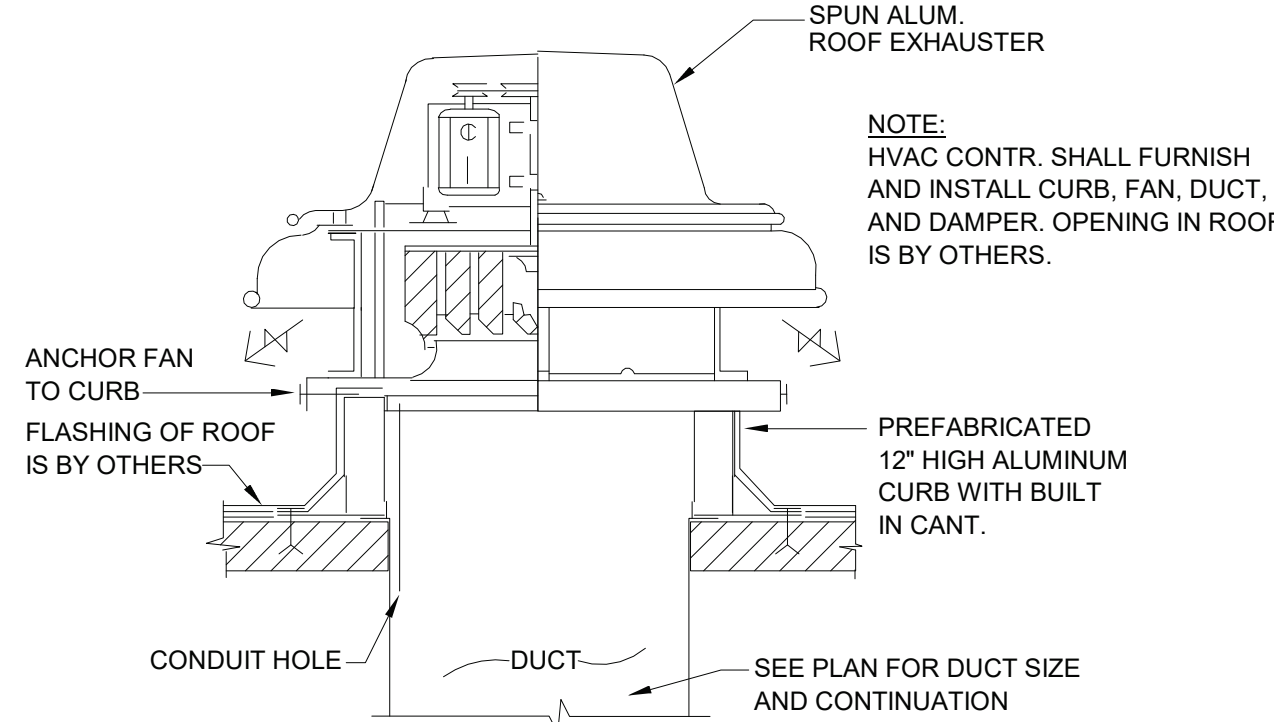
DETAIL	2
NTS	-



- NOTES:
- SUPPORT FROM WALL UNLESS OTHERWISE NOTED

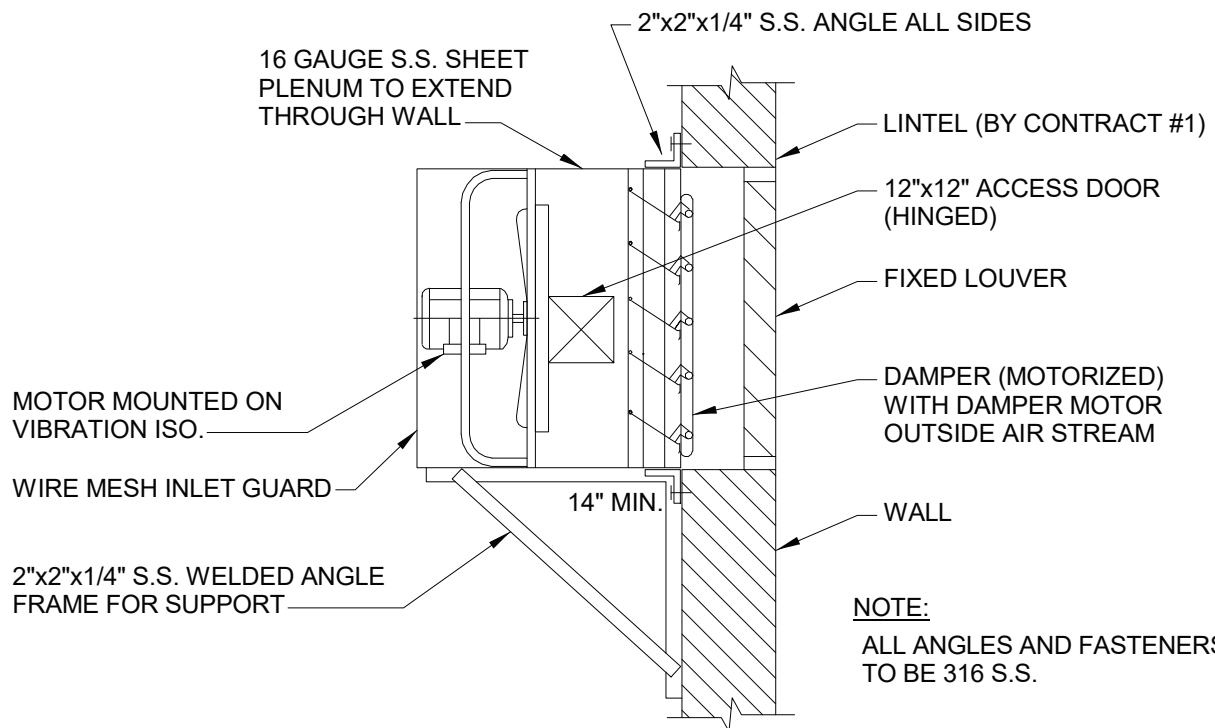
ELECTRIC UNIT HEATER MOUNTING DETAIL

DETAIL	3
NTS	H-04



ROOF EXHAUST FAN

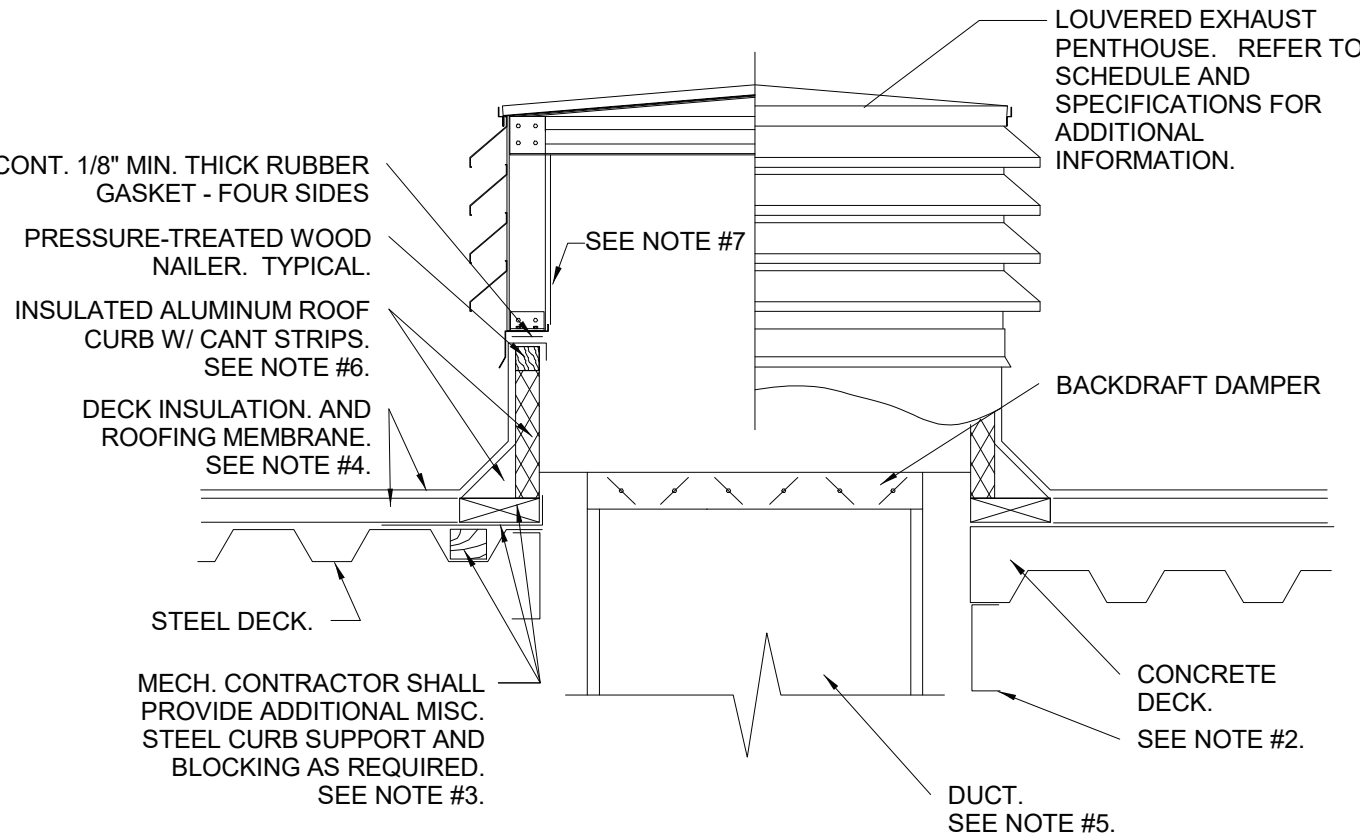
DETAIL	5
NTS	H-05



- NOTE:
- ALL ANGLES AND FASTENERS TO BE 316 S.S.

WALL MOUNTED FAN

DETAIL	4
NTS	H-04



- NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT ROOF CONSTRUCTION.
 2. REFER TO STRUCT. DWGS. FOR ADDITIONAL INFORMATION REGARDING ROOF OPENING FRAMING.
 3. PROVIDE THE PRESSURE-TREATED BLOCKING, UNDER THE CURB, AND RAISE THE CURB TO ACCOMMODATE THE THICKNESS OF THE ROOF INSULATION. SECURE BLOCKING TO THE ROOF STRUCTURE WITH LOAD RATED, RUSTPROOF FASTENERS.
 4. ROOFING BY GENERAL CONTRACTOR.
 5. EXHAUST DUCTWORK SHALL BE GALVANIZED SHEETMETAL PROVIDE APPROPRIATE INSULATION AS REQUIRED BY THE SPECIFICATIONS.
 6. WHEN THE PENTHOUSE IS TO BE INSTALLED ON A PITCHED ROOF, THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE CURB MANUFACTURER TO PROVIDE A PITCHED CURB TO MATCH THE PITCH OF THE ROOF. THE PENTHOUSE SHALL BE INSTALLED LEVEL.
 7. 1/2"x 1/2" ALUMINUM MESH INSECT SCREEN.

LOUVERED PENTHOUSE

DETAIL	6
NTS	H-05



Hazen

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ROCKLAND COUNTY SEWER DISTRICT NO.1
ORANGEBURG, NEW YORK

ORANGEBURG WASTEWATER
TREATMENT PLANT
SCREENING IMPROVEMENTS PROJECT

HVAC
DETAILS

DATE: JUNE 2024
HAZEN NO.: 90462-000
CONT NO.: RFB-RC-SWR-2023-06
DRAWING NUMBER: H-07