

MT. PLEASANT CENTRAL SCHOOL DISTRICT
RENOVATIONS TO THE PHYSICAL EDUCATION DEPARTMENT

at
WESTLAKE HIGH SCHOOL
825 WESTLAKE DRIVE
THORNWOOD, NY 10594
NYSED PROJECT #66-08-01-06-0-005-020
CONTRACT #1b: MECHANICAL/HVAC

Symbols

GRADE LINE

BORDER LINE, OUTLINE

FIRE SEPARATION WALL
SMOKE COMPARTMENT

CENTER LINE

OBJECT LINE

ELEVATION LINE

MATCH LINE

HIDDEN LINE

DEMOLITION

BREAK LINE

BREAK LINE (PIPE)

FRAMING
DESIGNATION

DIMENSION LINE

COLUMN LINE

DOOR TAG

WINDOW TAG

CEILING TAG

PLUMBING TAG

EQUIPMENT TAG

WALL TAG

DEMOLITION
NOTE

CONSTRUCTION
NOTE

SLOPE
DESIGNATIONS

ADA
SYMBOL

REVISION CLOUD W/ TAG

ROOM
NAME
DESIGNATION

BLOW UP PLAN
DESIGNATION

INTERIOR
ELEVATION

SECTION MARK

ROOM
NAME

100

100 SF

1

2

3

4

1

2

3

4

1

2

3

4

Drawing Label

1/8" = 1'-0"

Location Map

General Notes

- ALL WORK SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE AND ALL OTHER APPLICABLE CODES, ORDINANCES, ETC. FOR NEW YORK STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH THE EXISTING CONDITIONS AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS AND COMMENCING WORK.
- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND ADDRESS ALL QUESTIONS TO ARCHITECT PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL NOT SCALE DRAWINGS FOR DIMENSIONS. ALL NOTES OR DIMENSIONED INFORMATION TAKES PRECEDENCE OVER THE DRAWING.
- IN ALL CASES WHERE A CONFLICT MAY OCCUR SUCH AS BETWEEN ITEMS COVERED BY SPECIFICATIONS, NOTES ON THE DRAWINGS, OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS, THE ARCHITECT SHALL BE NOTIFIED AND WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
- DETAILS NOTED AS "TYPICAL" (TYP.) SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
- WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL AND SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFE WORKING CONDITIONS AND SHALL OBSERVE ALL SAFETY REQUIREMENTS ESTABLISHED BY JURISDICTIONAL AGENCIES AND THE OWNER. WHERE CONFLICTS EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY. CARE SHALL BE EXERCISED TO AVOID ENDANGERING PERSONNEL OR STRUCTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES AND JOB SITE CONDITIONS INCLUDING SAFETY. CONSTRUCTION SHALL BE PERFORMED IN SUCH A MANNER TO PROTECT WORKMEN, OCCUPANTS AND THE PUBLIC TO BE PROTECTED FROM INJURY AND ADJOINING PROPERTY SHALL BE PROTECTED FROM DAMAGE BY USE OF SCAFFOLDING, UNDERPINNING OR OTHER APPROVED METHOD. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM HIS OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, DEBRIS FREE CONDITION. THE DUST RESULTING FROM REMOVALS SHALL BE CONTROLLED SO AS TO PREVENT ITS SPREAD TO OCCUPIED PORTIONS OF THE BUILDING AND TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA.
- CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE CAUSED DURING OR RESULTING FROM THEIR OPERATIONS IN KIND TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OFF SITE IN AN APPROVED MANNER UPON COMPLETION OF WORK. ANY EXTRA BUILDING MATERIALS SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AS DIRECTED. THE OWNER SHALL BE CONSULTED PRIOR TO DISPOSAL OF SALVAGED OR EXCESS MATERIALS AT PROJECT COMPLETION. THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
- ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
- CONTRACTOR SHALL COORDINATE SCHEDULING OF WORK WITH THE OWNER'S REQUIREMENTS AND SCHEDULE. CONSTRUCTION ACTIVITIES SHALL COMPLY WITH LOCAL NOISE ORDINANCES REQUIREMENTS.
- CONTRACTOR SHALL FURNISH ALL EQUIPMENT THAT MAY BE REQUIRED TO PERFORM THE WORK INDICATED IN A SAFE AND ORDERLY MANNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION AND TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED DURING THE COURSE OF THEIR WORK AND TO ENSURE THE OWNER'S FACILITY TO BE OPERATIONAL. IF REQUIRED, THE CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO ALL UTILITIES AND PUBLIC FACILITIES INCLUDING FIRE HYDRANTS, FIRE ALARM BOXES, POLICE CALL BOXES, STREET LIGHTS, MANHOLES, AMONG OTHERS DURING DEMOLITION AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHING, FILLING AND CLEANING UPON COMPLETION OF WORK.
- THE CONTRACTOR SHALL SUBMIT WHERE REQUIRED, SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL PRIOR TO THE START OF FABRICATION OR PURCHASE OF THOSE ITEMS.
- THE CONTRACTOR SHALL PROVIDE THE OWNER AND ARCHITECT WITH CERTIFICATES OF INSURANCE, AS SPELLED OUT IN THE SPECIFICATIONS, PRIOR TO STARTING THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING OF EXISTING STRUCTURES AS NEEDED TO COMPLETE THE NEW WORK.
- ALL MANUFACTURER'S MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH EACH MANUFACTURER'S SPECIFIC INSTRUCTIONS AND RECOMMENDATIONS. WHERE BRAND NAMES AND MANUFACTURED PRODUCTS ARE CALLED FOR, APPROVED EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE SUBSTITUTED WITH WRITTEN PERMISSION OF THE ARCHITECT AND THE OWNER. WHENEVER BRAND NAMES OR SPECIFIC PRODUCT SYSTEMS ARE INDICATED IT SHALL BE CLEARLY UNDERSTOOD THAT SUCH IDENTIFICATION IS FOR THE PURPOSE OF ILLUSTRATING THE TYPE OF PRODUCT AND DEGREE OF QUALITY DESIRED. SUCH IDENTIFICATION IN NO WAY PRECLUDES THE CONTRACTOR FROM USING PRODUCTS OF OTHER MANUFACTURERS WHICH CAN BE SHOWN IN ADVANCE TO BE OF LIKE KIND AND EQUAL QUALITY.
- ALL CHANGES SHALL BE REQUESTED IN WRITING AND MAY ONLY BE APPROVED IN WRITING BY THE ARCHITECT AND THE OWNER PRIOR TO ANY CHANGES BEING MADE.
- THE ARCHITECT AND THE OWNER HAVE THE RIGHT TO REJECT ANY PORTION OF WORK THAT IS POORLY INSTALLED, DOES NOT MEET INDUSTRY STANDARD, UNAUTHORIZED OR WORK DONE CONTRARY TO THE THE INTENT OF THE CONTRACT DOCUMENTS. SUCH WORK SHALL BE REPLACED, REPAIRED OR REMOVED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL GUARANTEE ALL OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS FOR A PERIOD ONE YEAR AFTER RECEIVING FINAL ACCEPTANCE AND DO ALL REPAIR WORK AND REPLACEMENT AS NECESSARY DURING THAT PERIOD AT THE CONTRACTOR'S EXPENSE.
- IN NO EVENT SHALL STRUCTURAL MEMBERS BE CUT OR DRILLED WITHOUT THE WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL PROVIDE SAFE AND SANITARY CONDITIONS WHERE DEMOLITION AND WRECKING OPERATIONS ARE BEING CARRIED ON. WORK SHALL BE EXECUTED IN SUCH A MANNER THAT HAZARD FROM FIRE, POSSIBILITY OF INJURY, DANGER TO HEALTH AND CONDITIONS WHICH MAY CONSTITUTE A PUBLIC NUISANCE SHALL BE MINIMIZED.
- THE ARCHITECT WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS AS WELL AS FAILURE TO OBTAIN AND/OR FOLLOW THE ARCHITECT'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.
- COLOR, FINISHING & TEXTURE OF ALL FINISH MATERIALS, WHERE NOT INDICATED ON THE DRAWINGS, SHALL BE SELECTED BY OWNER.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, AND NFPA 70.
- CONTRACTORS OR ANY SUBCONTRACTORS PERFORMING WORK UNDER THIS CONTRACT SHALL CARRY LIABILITY AND PROPERTY DAMAGE INSURANCE AGAINST ACCIDENTS OF ALL KINDS AND SHALL FURNISH OWNER WITH CERTIFICATE OF INSURANCE.
- ALL WORK IN THESE DRAWINGS SHALL BE CONSIDERED NEW WORK WHETHER STATED OR NOT EXCEPT WHERE SPECIFICALLY NOTED AS EXISTING.

Drawing Index

Sheet No.	DESCRIPTION
T0.01M	MECHANICAL TITLE SHEET
M0.01	MECHANICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS
M1.01	MECHANICAL DEMOLITION FLOOR PLANS
M2.01	PARTIAL MECHANICAL PROPOSED FLOOR PLANS
M2.02	PARTIAL MECHANICAL PROPOSED ROOF PLAN
M6.01	MECHANICAL SCHEDULES
M6.02	MECHANICAL DETAILS
M6.03	MECHANICAL DETAILS AND VENTILATION SCHEDULE

Aerial View

Location Plan

Date

9/25/20

Checked

MTM

Drawn

KM

REGISTERED ARCHITECT

MICHAEL J. MCGOVERN, R.A.

02257-1

11/20/20

Revisions:
BID CONFORMANCE SET
11/20/20

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MECHANICAL TITLE SHEET

RENOVATIONS TO THE PHYSICAL ED. DEPARTMENT

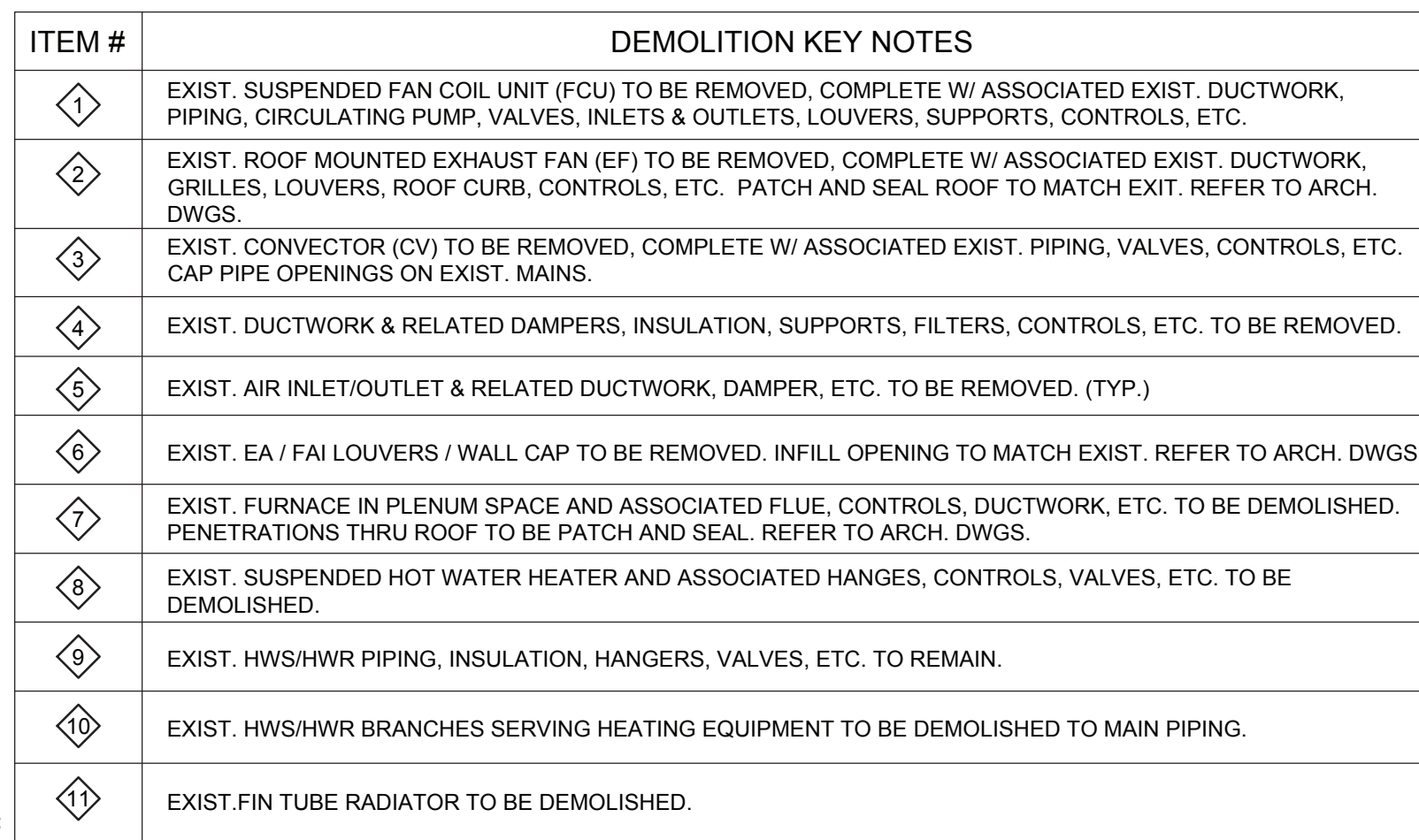
WESTLAKE HIGH SCHOOL

825 WEST LAKE DRIVE

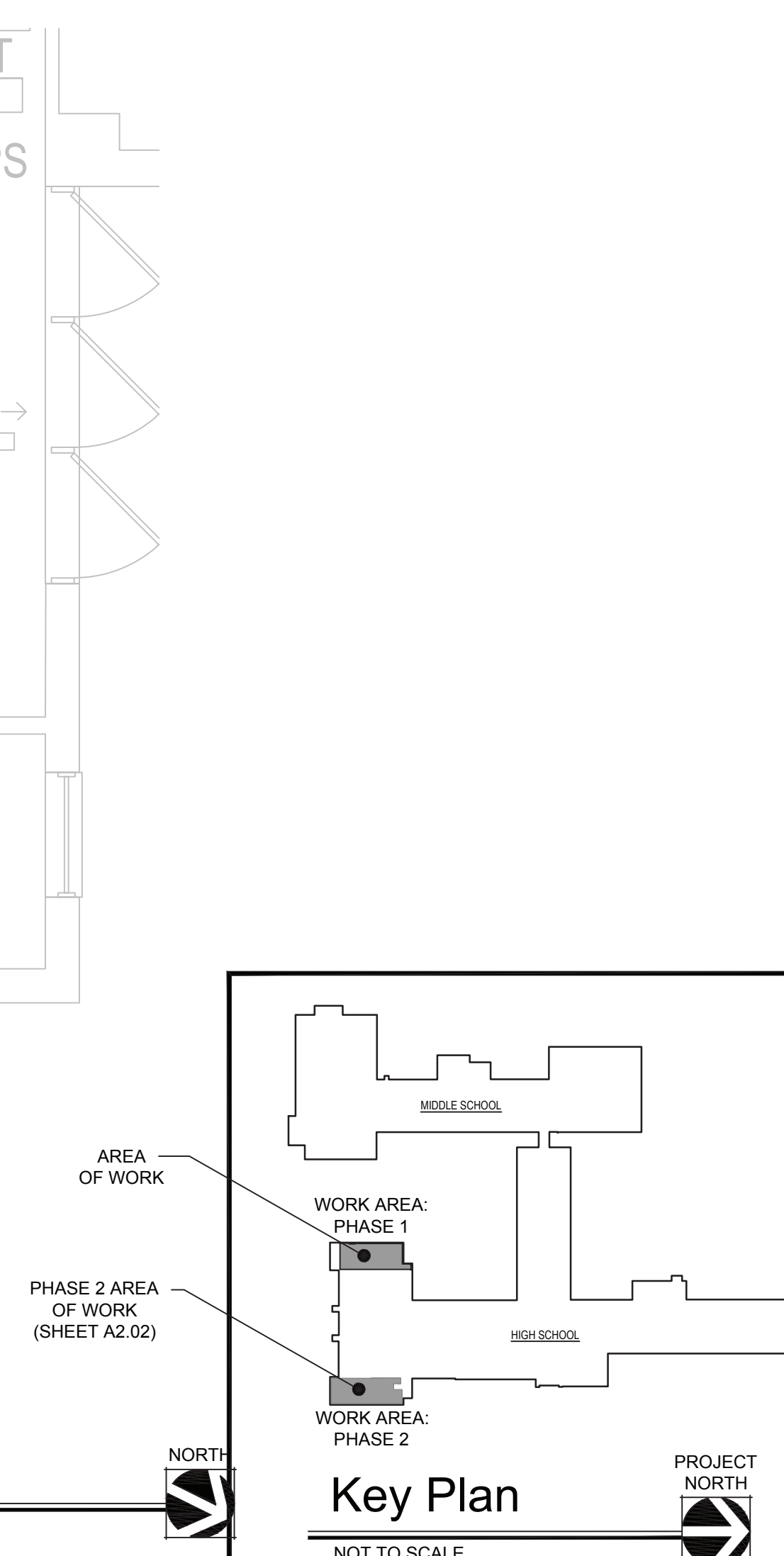
THORNWOOD, NY 10594

Job No. 4.1449.08
File No. 4144909T001

T0.01M



NORTH



Existing Boy's Locker Room - Partial (East) Demolition Plan



EXHAUST FAN SCHEDULE

(GREENHECK AS STANDARD)

DUCTLESS SPLIT-DX INDOOR AC/HEAT PUMP UNIT SCHEDULE																(DAIKIN AS STANDARD)
TAG No.	AREA SERVED	AIR FLOW L-H (CFM)	OUTDOOR AIR (CFM)	COOLING		HEATING	MODEL & MANUFACTURER		ELECTRICAL DATA			DIMENSIONS LxWxH (IN)	APPROX. WEIGHT (LBS)	REFRIGERANT TYPE	REMARKS	
				TBMH	SBMH	MBH			VOLT/PH/HZ	MCA	MOP					
AC-1	TRAINER'S ROOM 130F	180-290	-	11.0	8.3	13	FXAQ12PVJU	DAIKIN	208/1/60	0.4	15	31 x 12 x 9	30	R-410A	WALL-MOUNTED HEAT PUMP AC UNIT.	
AC-2	OFFICE 130M	180-290	-	11.0	8.3	13	FXAQ12PVJU	DAIKIN	208/1/60	0.4	15	31 x 12 x 9	30	R-410A	WALL-MOUNTED HEAT PUMP AC UNIT.	
AC-3	OFFICE 130L	175-280	-	8.0	7.0	8	FXAQ09PVJU	DAIKIN	208/1/60	0.4	15	31 x 12 x 9	30	R-410A	WALL-MOUNTED HEAT PUMP AC UNIT.	
AC-4	EXISTING OFFICE 130B	160-260	-	7.0	5.9	7	FXAQ07PVJU	DAIKIN	208/1/60	0.4	15	31 x 12 x 9	30	R-410A	WALL-MOUNTED HEAT PUMP AC UNIT.	
AC-5	SGI 130N	470-635	-	22.0	17.9	22.0	FXFQ24PVJU	DAIKIN	208/1/60	0.5	15	33 x 33 x 9	60	R-410A	CEILING-MOUNTED HEAT PUMP AC UNIT.	
AC-6	OFFICE 128D	160-260	-	7.0	7.0	7	CTXS07LVJU	DAIKIN	208/1/60	0.4	15	31 x 12 x 9	30	R-410A	WALL-MOUNTED HEAT PUMP AC UNIT.	
AC-7	OFFICE 128C	160-260	-	7.0	7.0	7	CTXS07LVJU	DAIKIN	208/1/60	0.4	15	31 x 12 x 9	30	R-410A	WALL-MOUNTED HEAT PUMP AC UNIT.	
NOTES: 1. FOR AC-1,2,3,4,6 &7, PROVIDE WALL-MOUNTING PLATES, CONDENSATE PUMP W/ RESERVOIR SENSOR & ALARM CONTACT. PUMP TO BE POWERED BY AC UNIT). 2. PROVIDE PROPER REFRIGERANT FOR ALL UNITS. 3. INTERLOCK W/ RESPECTIVE ACCU. 4. PROVIDE ONE (1) EXTRA SET OF WASHABLE FILTERS FOR EACH UNIT.																

OUTDOOR AIR-COOLED CONDENSING UNIT SCHEDULE

(DAIKIN AS STANDARD)

NOTES:

1. PROVIDE 24" HIGH, "PATE" MAKE (OR APPROVED EQUAL) EQUIPMENT ROOF SUPPORT CURBS FOR EACH UNIT.
2. PROVIDE W/ LOW AMBIENT CONTROL FOR ACCU-1 & 2.
3. INTERLOCK W/ RESPECTIVE AC UNITS FOR OPERATION.
5. ELECTRICAL CONTRACTOR SHALL FURNISH & INSTALL NEMA 3R DISCONNECT SWITCH & GFI CONVENIENCE OUTLET. REFER TO ELECTRICAL DRAWINGS.

FAN COIL UNIT SCHEDULE

(GREENHECK AS STANDARD)

HOT WATER FINNED TUBE RADIATION SCHEDULE													(STERLING AS STANDARD)
TAG NO.	LOCATION	TUBE SIZE	FIN PER FT.	ACTIVE ELEMENT LENGTH	BTU/ HR-FT	TIERS	HOT WATER HEATING				MODEL & MANUFACTURER		REMARKS
							MBH	EWT (°F)	LWT (°F)	GPM			
FTR-1	TRAINER'S RM130F	3/4"	50	5'-0"	1,110	1	5.5.	180	160	0.5	JVB-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-2	WOMAN'S TOILET 130H	3/4"	50	2'-0"	1,110	1	2.2	180	160	0.5	JVB-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-3	MEN'S BATHROOM 130K	3/4"	50	2'-0"	1,110	1	2.2	180	160	0.5	JVB-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-4	OFFICE 130L	3/4"	50	5'-0"	1,110	1	5.5	180	160	0.5	JBV-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-5	OFFICE 130M	3/4"	50	6'-0"	1,110	1	6.6	180	160	0.6	JBV-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-6,7	SGI 130N	3/4"	50	6'-0"	1,110	1	6.6	180	160	0.6	JBV-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-8	EXIST. TOILET	3/4"	50	2'-0"	1,110	1	2.2	180	160	0.5	JVB-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-9	EXIST. OFFICE	3/4"	50	1'-6"	1,110	1	1.6	180	160	0.5	JVB-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-10,11	GIRL'S/BOY'S BATHROOMS	3/4"	50	2'-6"	1,110	1	2.7	180	160	0.5	JVB-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-12,13	OFFICE 129C/128D	3/4"	50	2'-6"	1,110	1	2.7	180	160	0.5	JVB-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.
FTR-14	BATHROOM 128E	3/4"	50	2'-0"	1,110	1	2.6	180	160	0.5	JVB-F	STERLING	PROVIDE W/ WATER BRACKETS W/ HANGERS. SEE NOTES BELOW.

NOTES:

- ALL FTRs SHALL BE 14" H X 5-5/16" D. THE LENGTH INDICATED IN ABOVE SCHEDULE IS ACTIVE FINNED TUBE LENGTH. THE OVERALL LENGTH OF COVERS (ENCLOSURES) SHALL BE WALL TO WALL OR AS INDICATED ON FLOOR PLANS.
- PROVIDE W/ MIN. 14 GAUGE GALVANIZED STEEL FRONT COVER, 18 GA. FULL HEIGHT BACK PANEL, AIR VENT, CORNER PIECES, SPLICE PLATES, END CAPS, VALVE ENCLOSURE COVER & WALL TO WALL COVER, WATER BRACKETS & TAMPER RESISTANT DAMPERS.
- PROVIDE DANFOSS CONTROL VALVE W/ UNIT MOUNTED DIAL-CONTROL FOR EACH FTR.
- PROVIDE PIPE ENCLOSURE SAME GAUGE AND FINISH AS COVERS WHERE INDICATED.

HOT WATER FINNED TUBE RADIATION SCHEDULE

(STERLING AS STANDARD)

HOT WATER CABINET HEATER SCHEDULE															
(TRANE AS STANDARD)															
TAG NO.	AREA SERVED	S.A. CFM	O.A. CFM	HOT WATER HEATING				HP	ELECTRICAL DATA V - PH - HZ	FLA	MOP	MODEL & MANUFACTURER	DIMENSIONS (L x W x H) (IN)	APPROX. UNIT WEIGHT (LBS)	REMARKS
				MBH	EWI (°F)	LWT (°F)	GPM								
CH-1.2	VESTIBULES	220	-	5.0	180	160	0.5	0.22	208 - 1 - 60	1.8	15	FF MODEL E TRANE	34 x 25 x 10	100	SEE NOTES.
CH-3	CORRIDOR 130	350	50	5.3	180	160	0.5	0.22	208 - 1 - 60	1.9	15	FF MODEL C TRANE	26 x 27 x 10	100	SEE NOTES.
NOTES:															
1. PROVIDE W/ HW HEATING COIL, FACTORY INSTALLED DELUXE PIPING PACKAGE OPTION #F W/ 2-WAY MODULATING CONTROL VALVE FOR EACH UNIT.															
2. PROVIDE W/ ECM MOTOR, FILTERS, KEYLOCK PANEL & ACCESS DOOR, & DISCONNECT SWITCH FOR EACH UNIT.															
3. PROVIDE W/ BOTTOM STAMPED INLET & OUTLET LOUVERS FOR CEILING-HUNG HORIZONTAL UNITS.															
4. UNIT COLOR TO BE SELECTED BY OWNER. PROVIDE COLOR CHART.															

HOT WATER CABINET HEATER SCHEDULE

(TRANE AS STANDARD)

HOT WATER UNIT HEATER SCHEDULE											
											(REZNOR AS STANDARD)
TAG NO.	LOCATION	CFM	HP	HOT WATER HEATING					ELECTRICAL DATA V - PH - HZ	MODEL & MANUFACTURER	REMARKS
				MBH	EWT (°F)	LWT (°F)	GPM	WPD			
UH-1.2	STORAGE 130E/130E	270	0.04	13	180	160	1.3	0.06	115 - 1 - 60	WS-18/24 REZNOR	PROVIDE W/ 4-WAY DIFFUSER, OSHA FAN GUARD, DISCONNECT SWITCH, TRANSFORMER, & HEAVY DUTY THERMOSTAT.

HOT WATER UNIT HEATER SCHEDULE

(REZNOR AS STANDARD)

PUMP SCHEDULE								
MARK No.	GPM	FT. HD.	HP	RPM	ELECTRIC DATA VOLT - PH - HZ	MODEL & MANUFACTURER		REMARKS
P - 1	14.2	15	1/6	3300	115-1-60	SERIES PL PL-45	BELL & GOSSETT	W/ FITTINGS PER SPECIFICATION
P - 2	5.4	12	1/6	3300	115-1-60	SERIES PL PL-36	BELL & GOSSETT	W/ FITTINGS PER SPECIFICATION

PUMP SCHEDULE

MARK No.	GPM	FT. HD.	HP	RPM	ELECTRIC DATA VOLT - PH - HZ	MODEL & MANUFACTURER		REMARKS
P - 1	14.2	15	1/6	3300	115-1-60	SERIES PL PL-45	BELL & GOSSETT	W/ FITTINGS PER SPECIFICATION
P - 2	5.4	12	1/6	3300	115-1-60	SERIES PL PL-36	BELL & GOSSETT	W/ FITTINGS PER SPECIFICATION

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 THE REGISTERED ARCHITECT
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Revisions:

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MECHANICAL CONFINEMENT

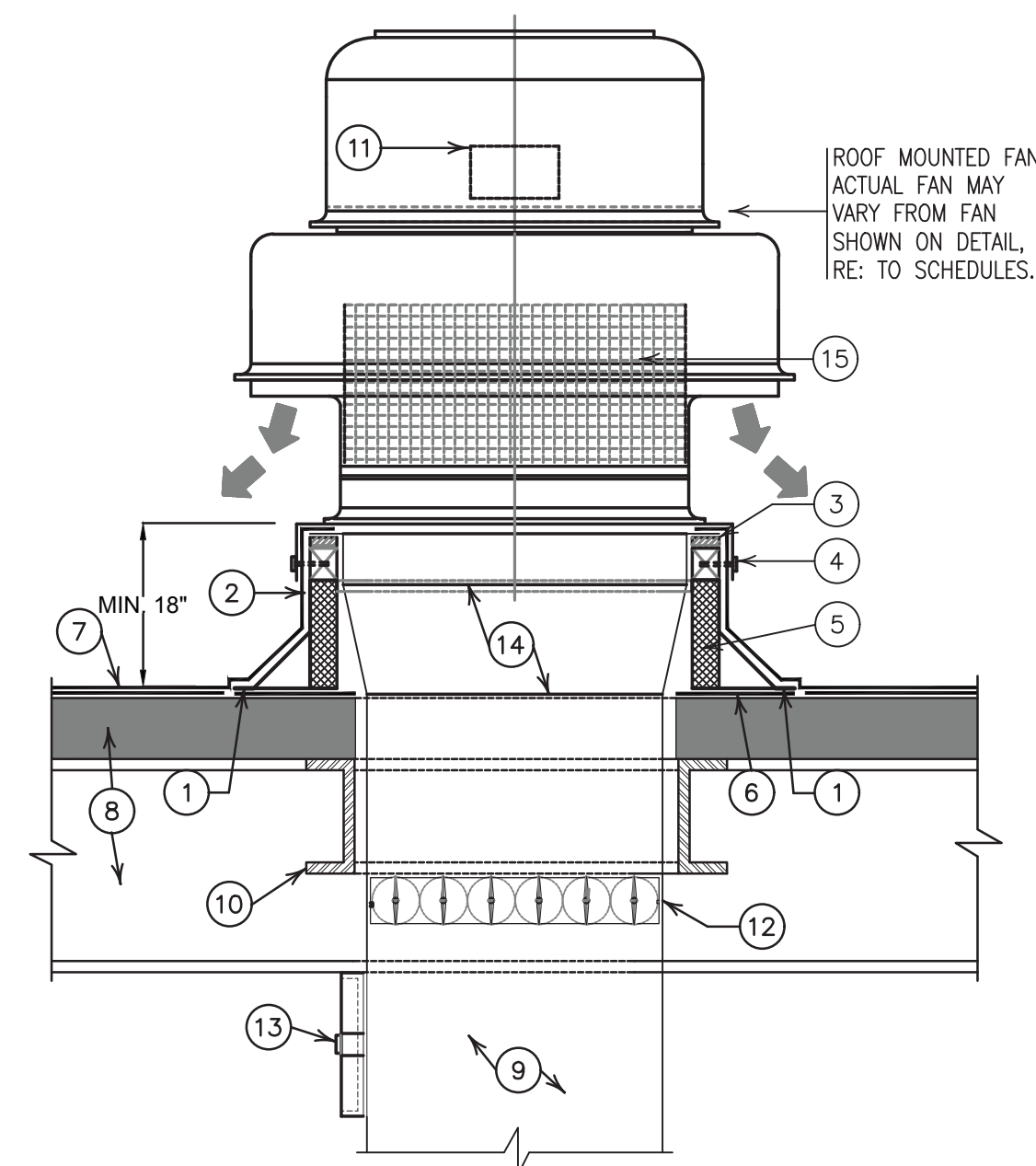
RENOVATIONS TO THE PHYSICAL ED. DEPARTMENT
WESTLAKE HIGH SCHOOL
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THORNWOOD, NY 10504

Job No. 4.1449.08

File No. 4144908M101

M6.01

SED PROJECT #66-08-01-06-0-005-020



GENERAL NOTES:

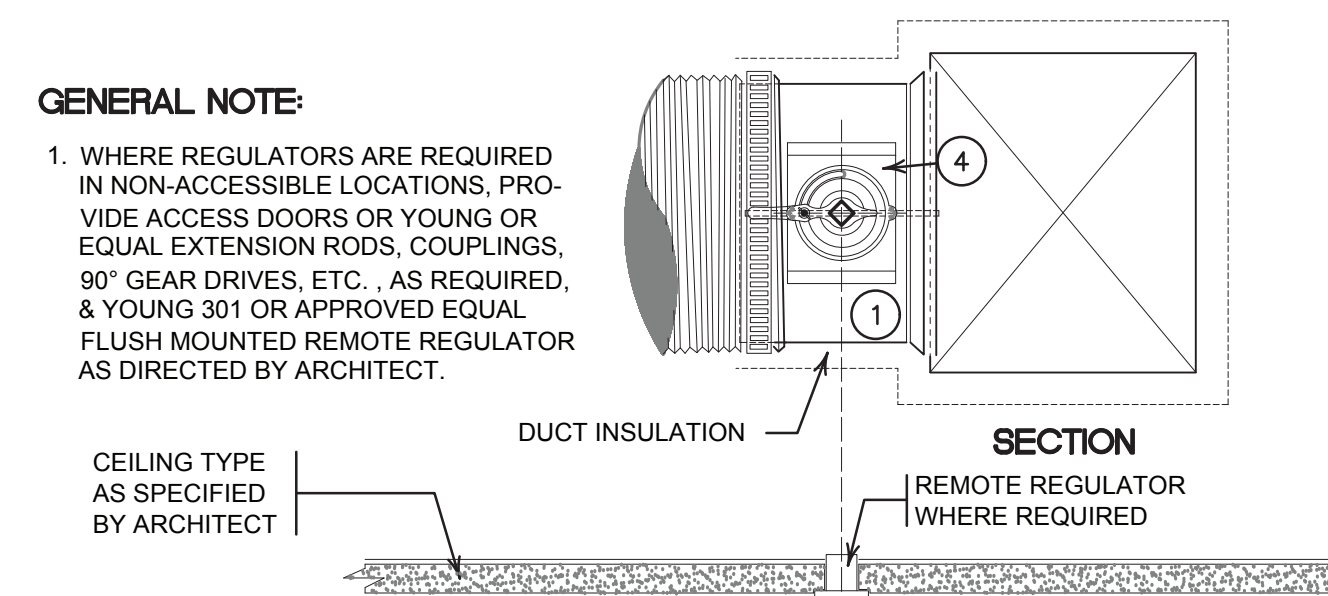
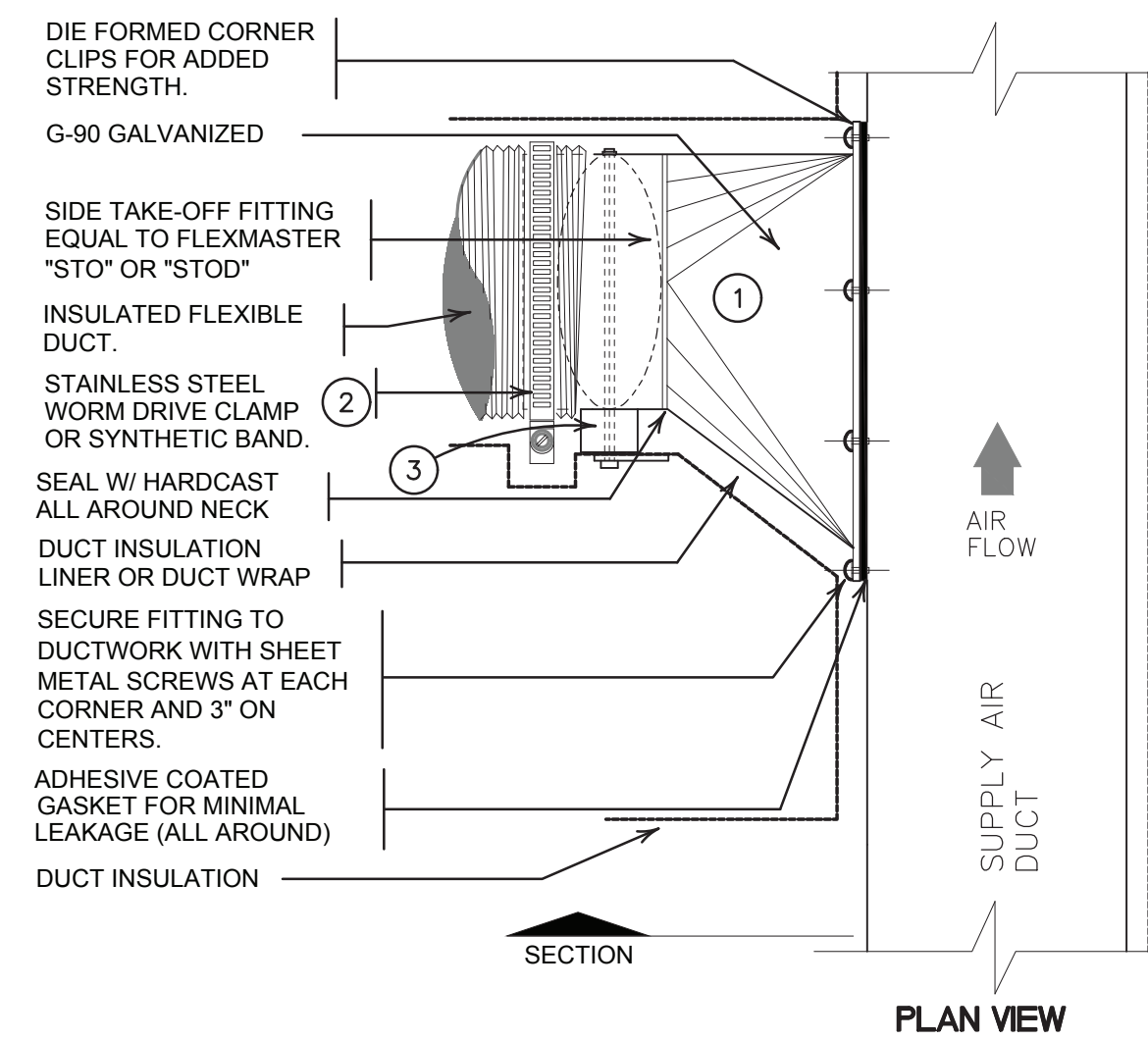
1. CONSULT LOCAL CODE AUTHORITIES FOR SPECIFIC REQUIREMENTS.
2. ROOF CURB AND ROOF OPENING DIMENSIONS SHALL BE DETERMINED BY FAN MANUFACTURER.

KEYED NOTES:

- ① SECURE FAN ROOF CURB TO ROOF WITH SHEET METAL SCREWS, LAG BOLTS OR OTHER METHOD CONSISTENT WITH ROOF CONSTRUCTION. SECURE FAN ROOF CURB TO ROOF USING FASTENERS AT 12" O.C. BEFORE APPLYING ROOFING FELT & ROOF INSULATION. (IF REQUIRED) MINIMUM OF 2 PER SIDE.
- ② ROOFING FELT TO EXTEND UP AND OVER TOP OF FAN CURB.
- ③ NEOPRENE GASKET APPLIED TO TOP OF FAN CURB.
- ④ SECURE FAN TO ROOF CURB WITH SHEET METAL SCREWS AT 12" O.C. ALL AROUND.
- ⑤ THERMAL / ACOUSTICAL FAN ROOF CURB BY FAN MANUFACTURER.
- ⑥ SEAL ROOF AREA BELOW CURB WITH SILICONE CAULK.
- ⑦ ROOF MEMBRANE, REFER TO ARCHITECTURAL DRAWINGS.
- ⑧ ROOF STRUCTURE, REFER TO ARCHITECTURAL DRAWINGS & STRUCTURAL DRAWINGS FOR DETAILS.
- ⑨ DUCTWORK
- ⑩ FRAMED ROOF OPENING - REFER TO STRUCTURAL DRAWINGS.
- ⑪ UNIT MOUNTED DISCONNECT SWITCH WITH CONDUIT THROUGH CURB.
- ⑫ ACCESSIBLE OPPOSED BLADE BALANCE DAMPER
- ⑬ ACCESS DOOR (WERE SPECIFIED)
- ⑭ TRANSITION DUCT AS REQUIRED TO CONNECT TO FAN DAMPER TRAY.
- ⑮ 1/2" MESH BIRD SCREEN

FAN INSTALLATION DETAIL

1) NOT TO SCALE

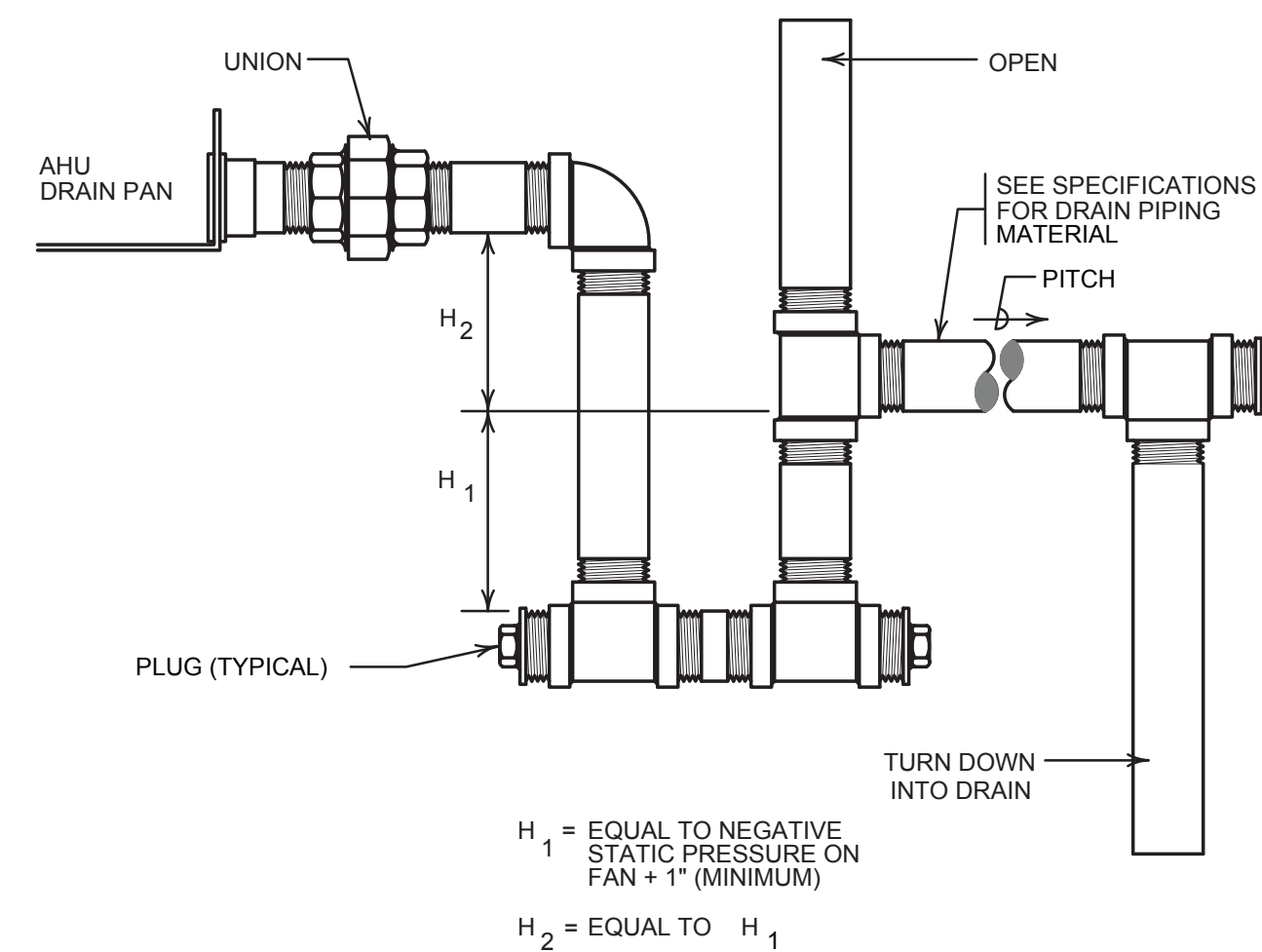


NOTES:

- ① PROVIDE SQUARE TO ROUND TAP WHERE FLEXIBLE DUCT SIZE EXCEED DIMENSION OF RECTANGULAR DUCT.
- ② EXTEND INSULATION AND OUTER JACKET OVER THE SECURE CLAMP/BAND AND TAPE DOWN TO SLEEVE/COLLAR TO MAINTAIN VAPOR BARRIER INTEGRITY. (TYPICAL)
- ③ PROVIDE DAMPER IF TAP SERVES AN AIR DISTRIBUTION DEVICE.
- ④ RIGID DAMPERS SHALL BE "FLEXMASTER" SLBO RAISED PLATFORM.

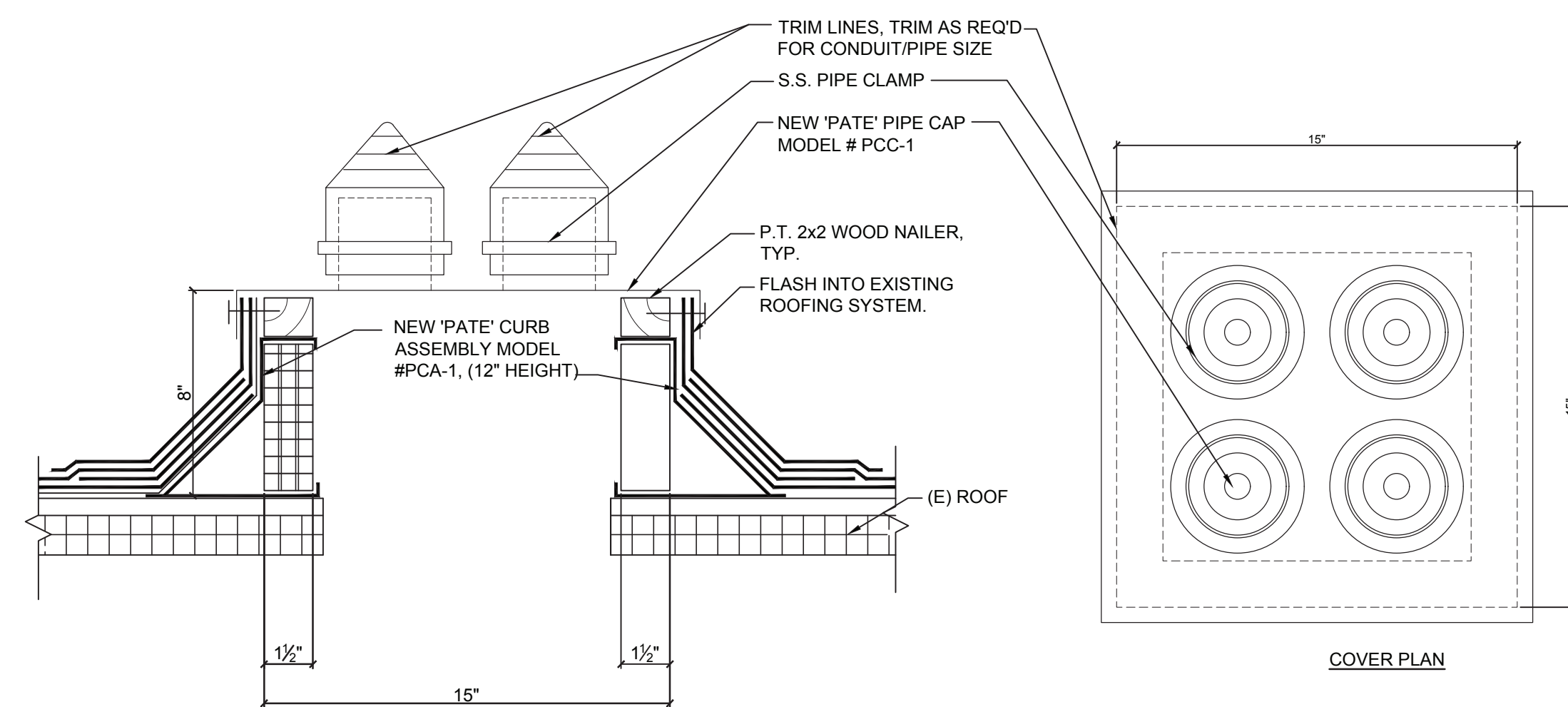
ROUND TAP DETAIL

2) NOT TO SCALE



2 DRAW-THROUGH UNIT DETAIL

NOT TO SCALE

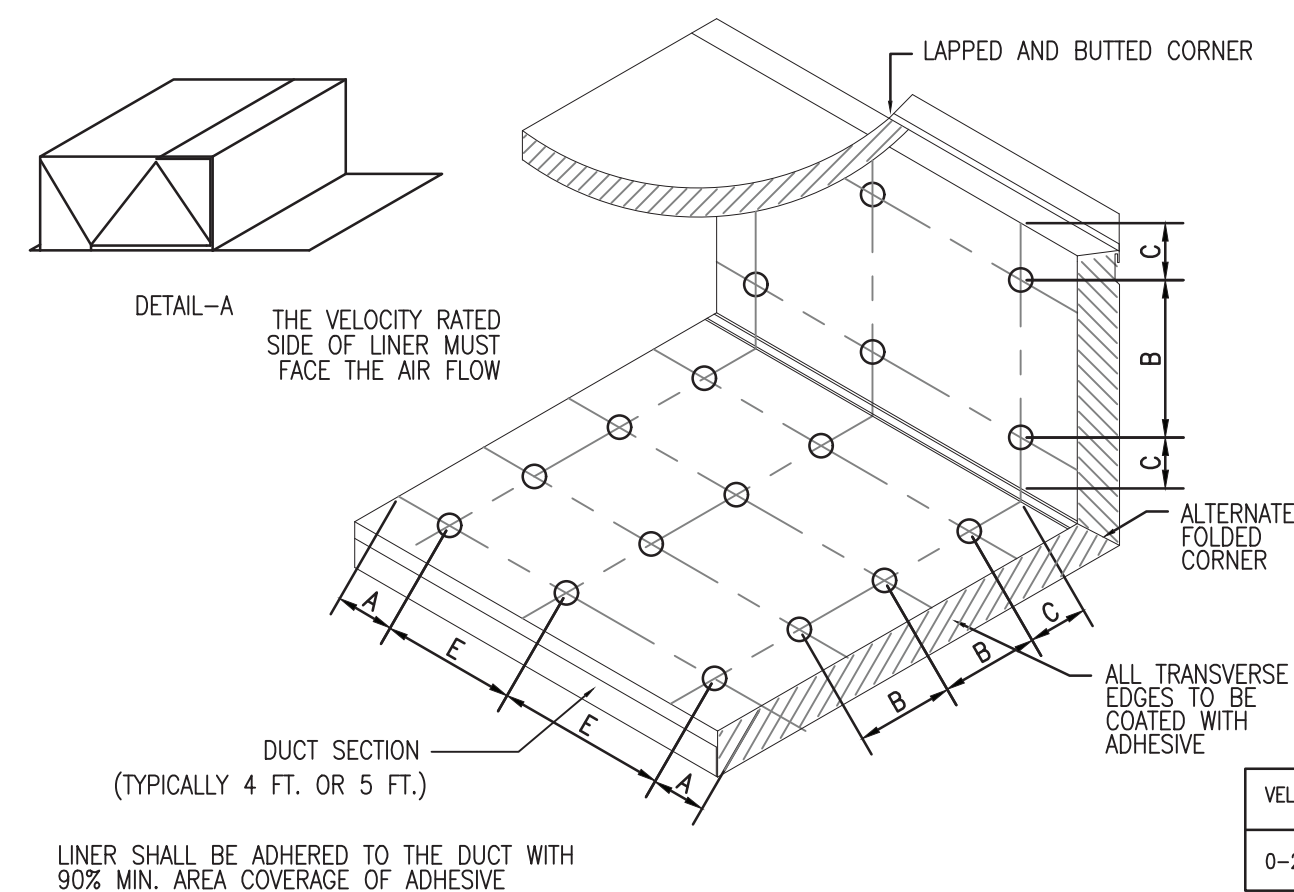


GENERAL NOTES

1. ALL ROOFING ASSOCIATED WITH MECHANICAL WORK IS TO BE BY MECHANICAL CONTRACTOR. THIS INCLUDES CUTTING OF DECK, BLOCKING, CURBS, SUPPORTS ANGLES AND ROOFING PATCH BACK, FLASHING, ETC. (SEE DRAWING A2.03)
2. MECHANICAL CONTRACTOR WILL HIRE A ROOFING SUBCONTRACTOR WHO IS CERTIFIED WITH THE EXISTING ROOF MANUFACTURER IN ORDER TO MAINTAIN THE EXISTING WARRANTY.

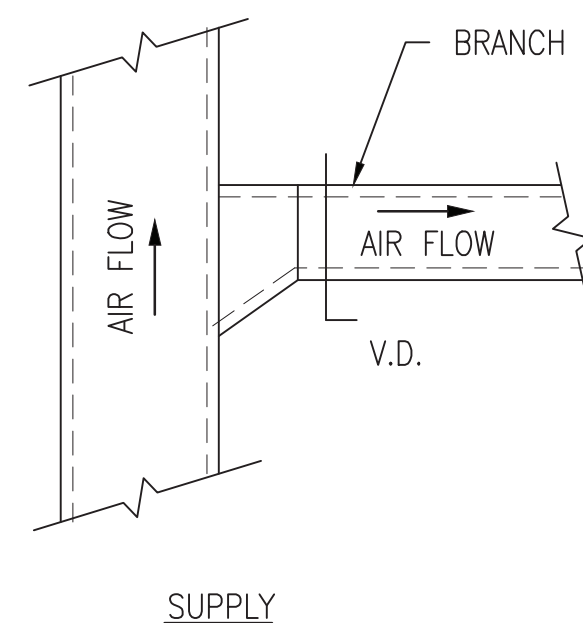
PIPE PORTAL DETAIL

NOT TO SCALE



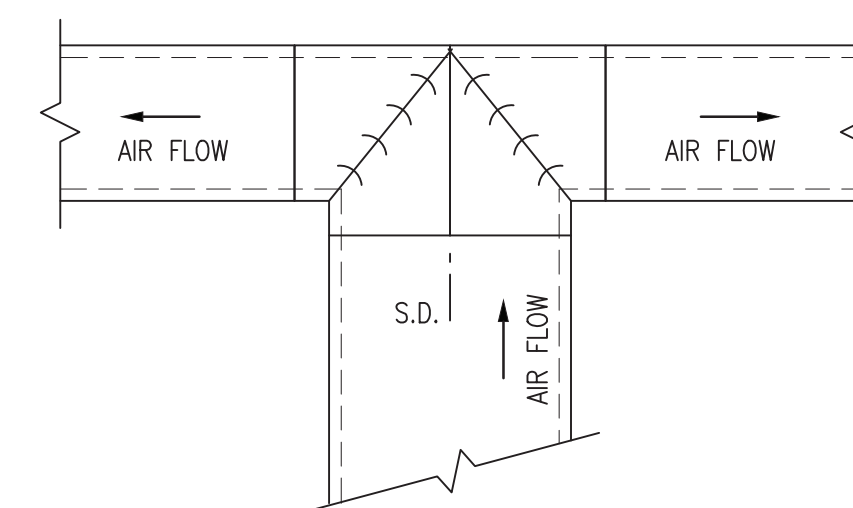
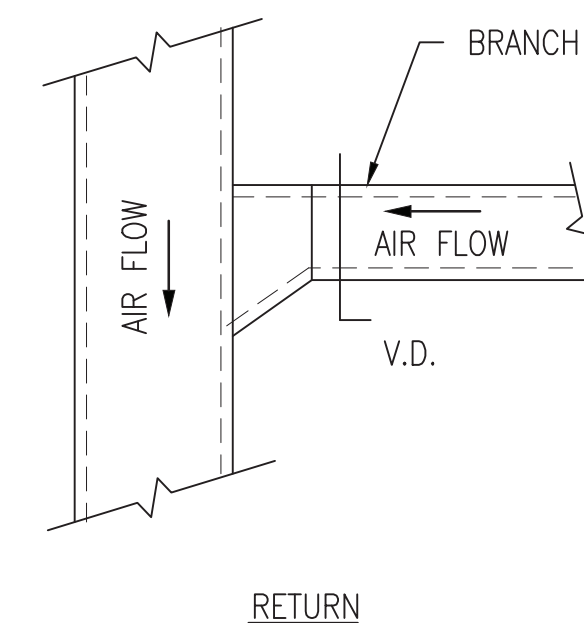
FLEXIBLE DUCT LINER INSULATION DETAIL

NOT TO SCALE



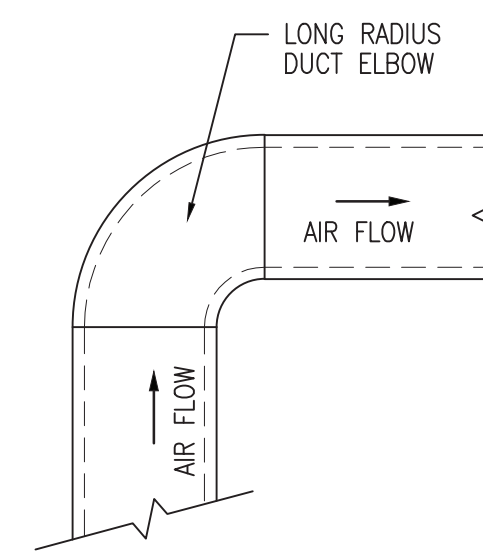
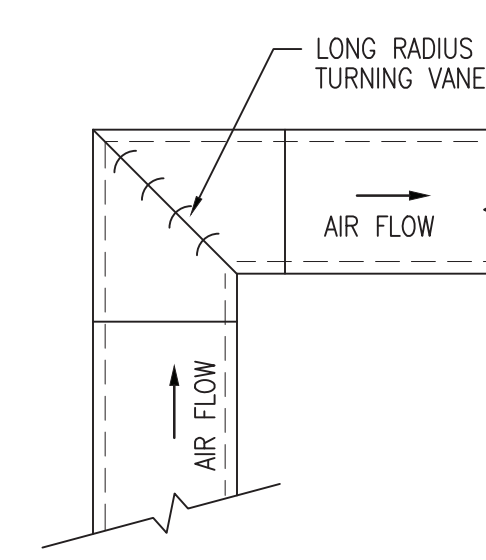
DUCT / DIFFUSER TAKE OFF DETAIL

NOT TO SCALE



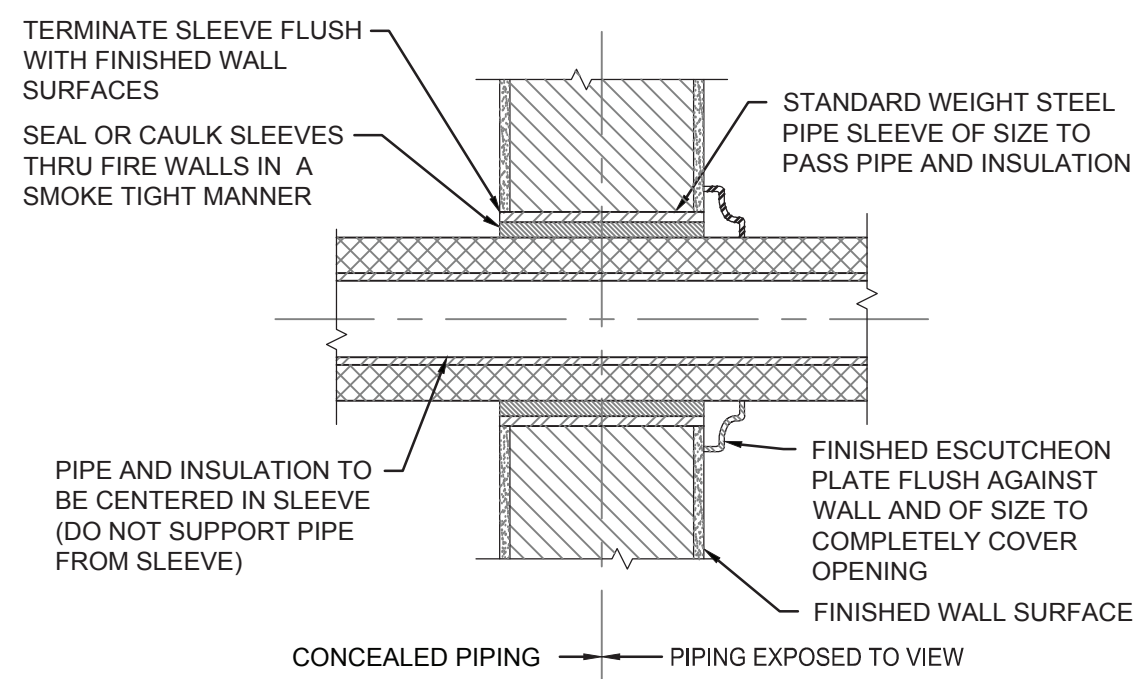
DUCT TURN DETAIL

NOT TO SCALE

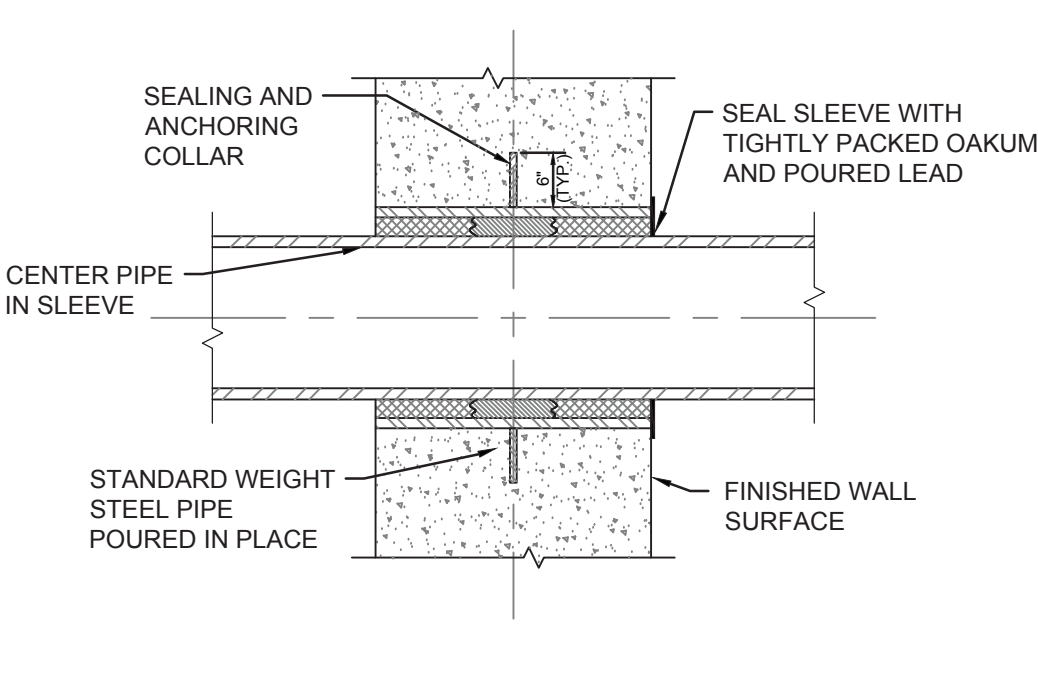


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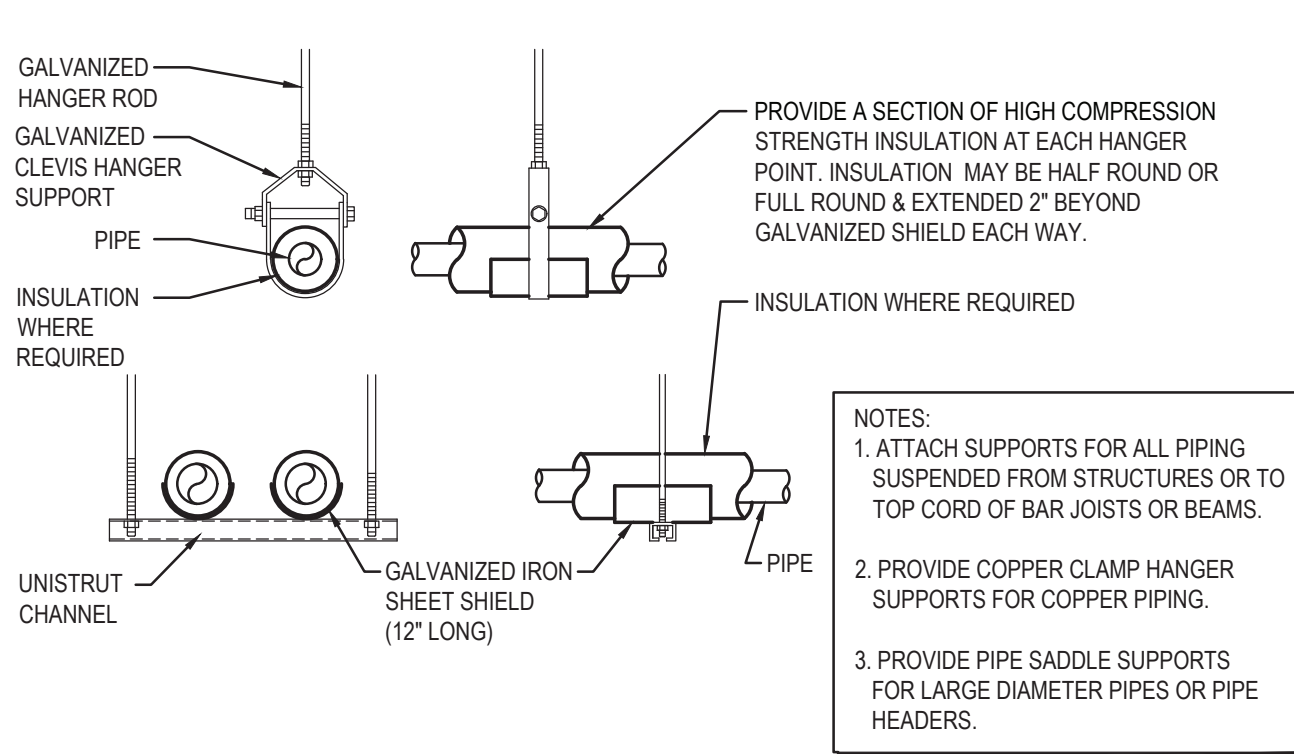


INTERIOR WALLS



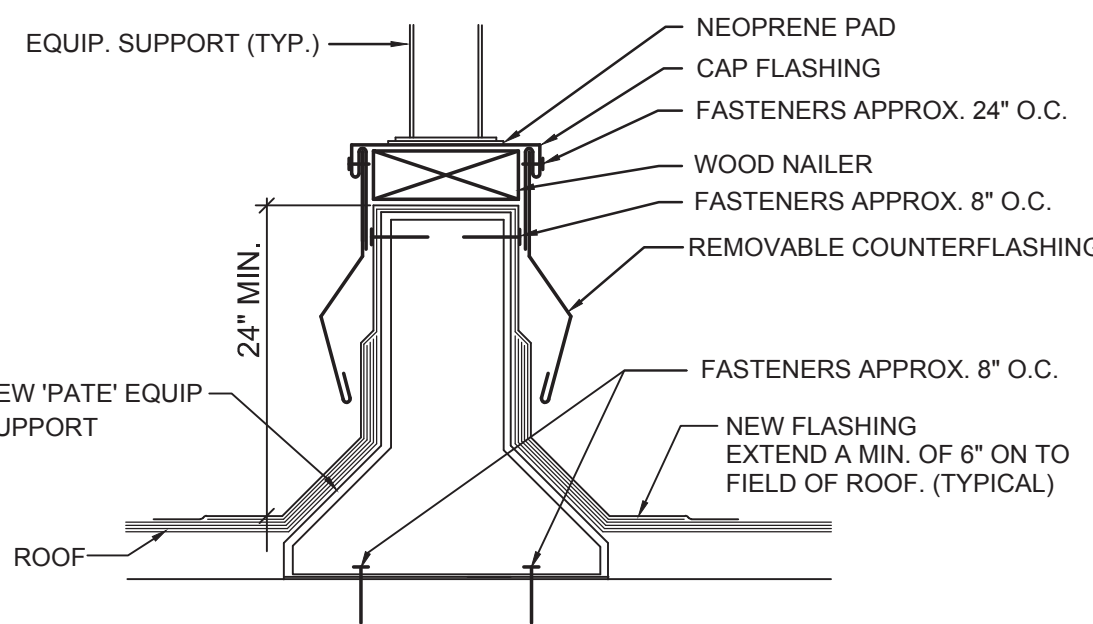
EXTERIOR WALLS

9 PIPE SLEEVES THRU WALL DETAILS
NOT TO SCALE



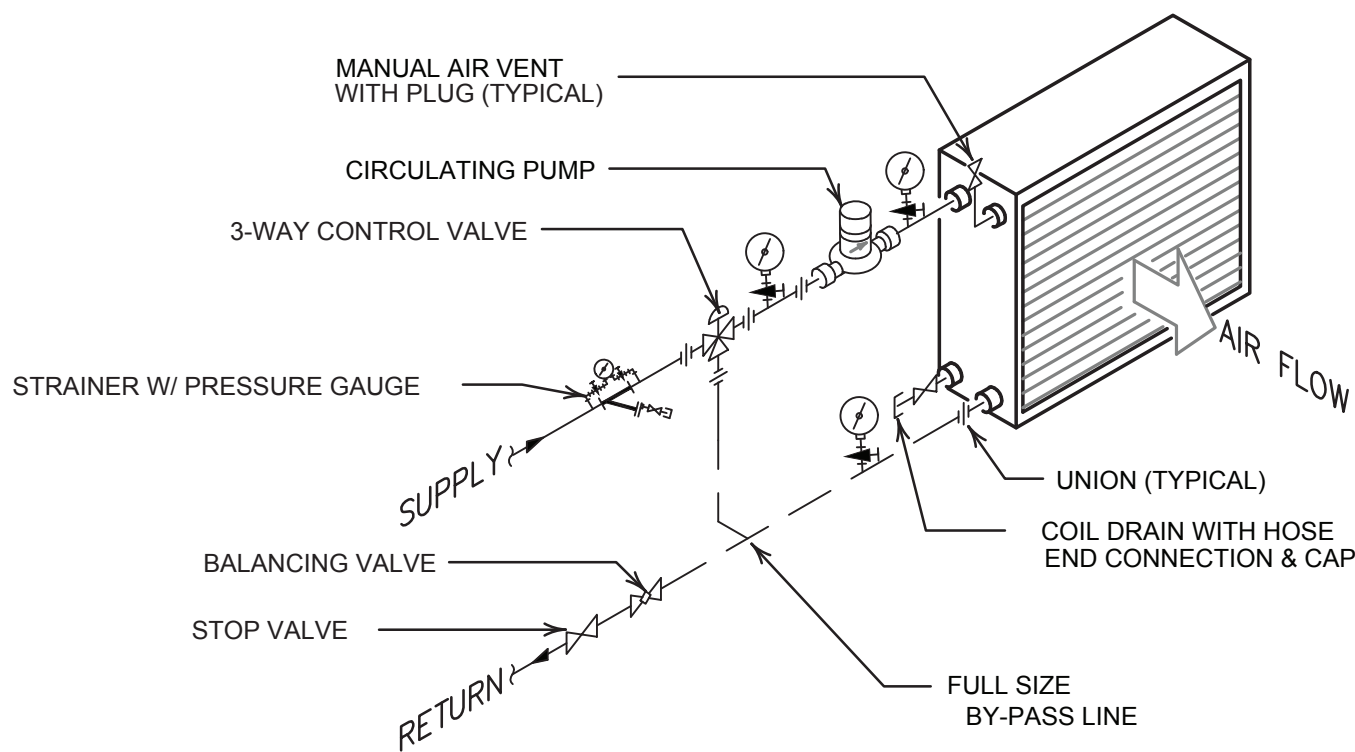
10 PIPE SUPPORT HANGERS
NOT TO SCALE

INSTALL NEW CURB PERPENDICULAR TO STEEL PLATES OF ROOF DECK. PROVIDE CRICKET IN ROOF TO DIVERT ROOF WATER AROUND CURBS.

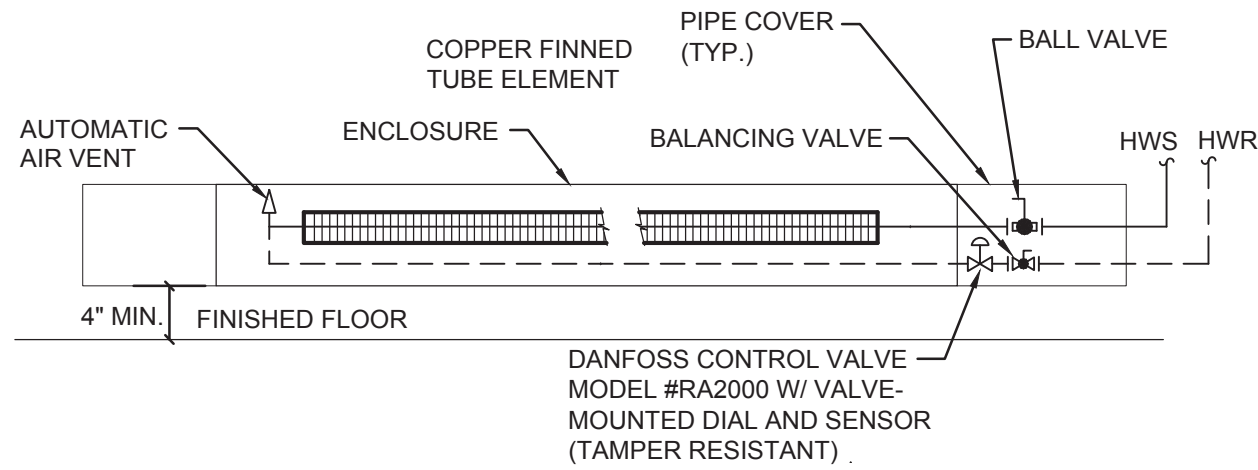


11 EQUIPMENT SUPPORT DETAIL
NOT TO SCALE

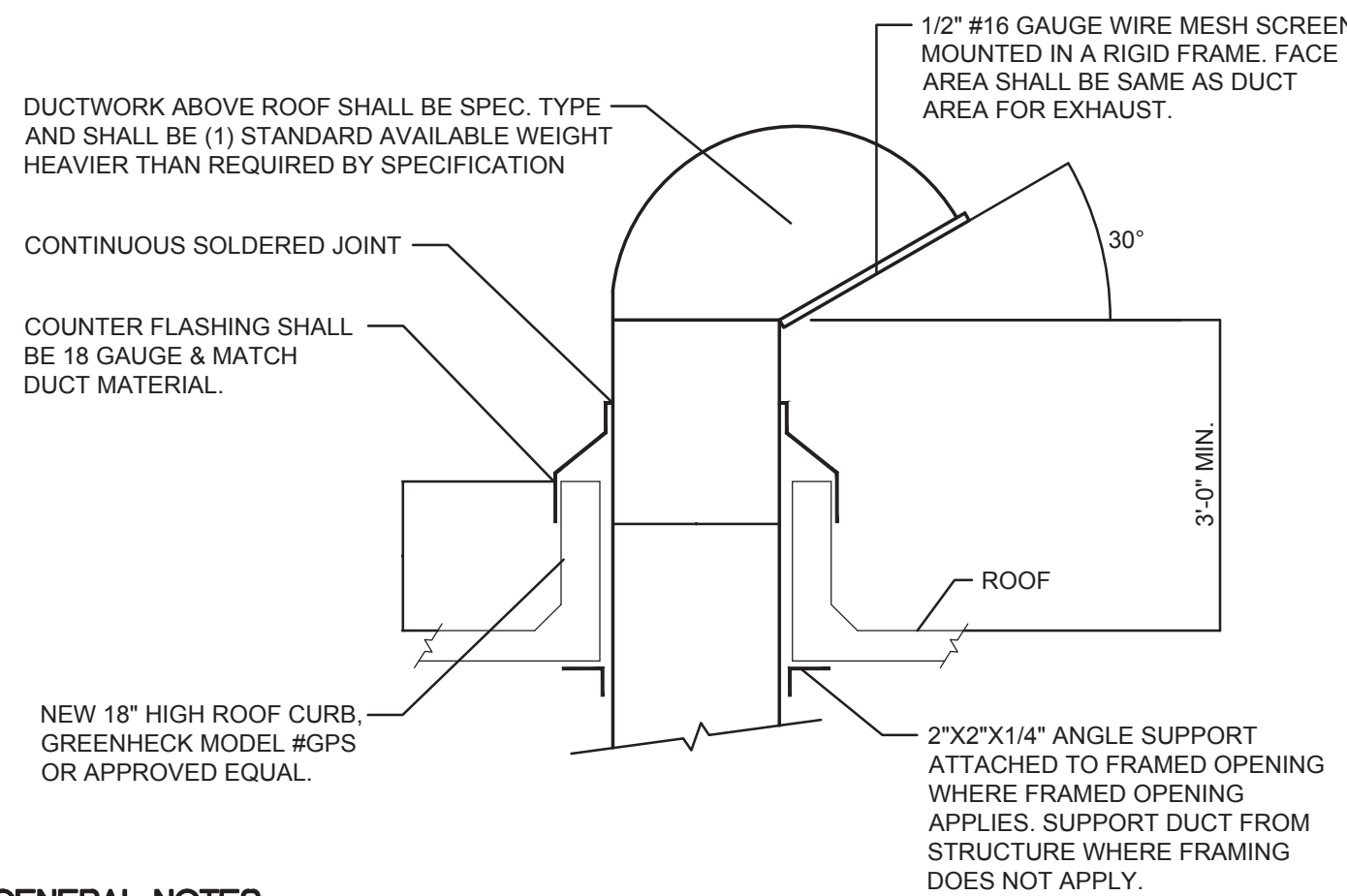
- NOTES:
1. INSULATE ALL PIPING, VALVES, FITTINGS AND ACCESSORIES. RE: SPECIFICATIONS
 2. INSTALL TEST PLUGS IN EASILY ACCESSIBLE LOCATIONS WITH MINIMUM OF 12" CLEARANCE IN FRONT.



12 SECONDARY LOOP PIPING DETAIL
NOT TO SCALE



13 HOT WATER FTR PIPING W/ CONTROL VALVES DETAIL
NOT TO SCALE



GENERAL NOTES:

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2. MECHANICAL CONTRACTOR WILL HIRE A ROOFING SUBCONTRACTOR WHO IS CERTIFIED WITH THE EXISTING ROOF MANUFACTURER IN ORDER TO MAINTAIN THE EXISTING WARRANTY.

14 GOSSENECK VENT DETAIL
NOT TO SCALE

VENTILATION SCHEDULE

Room Name	Floor Area (Sq. Ft.)	Required O.A. per Sq. Ft.	Required O.A. For Space	No. of People	Required O.A. per Person	Required OA For Occupants	Total Min. O.A. Required (CFM)	Zone Air Distribution Effectiveness	Zone Min. O.A. Required (CFM)	Design		Remarks
										O.A. (CFM)	E.A. (CFM)	
WEST SIDE LOCKER ROOM												
GIRL'S LOCKER ROOM 128A	697	-	-	-	-	-	-	-	-	750	555	0.25/SF
BATHROOM 128F	190	-	-	-	-	-	-	-	-		250	50CFM/FIXT.
LOBBY	43	0.06	3	-	-	-	3	0.8	3	20		
OFFICE 128D	115	0.06	7	1	5	5	12	0.8	15	20		
BATHROOM 128G	200	-	-	-	-	-	-	-	-		250	50CFM/FIXT.
BOY'S LOCKER ROOM 128B	677	0.06	41	-	-	-	41	0.8	51	750	555	0.25/SF
OFFICE BATHROOM 128E	127	-	-	-	-	-	-	-	-		100	50CFM/FIXT.
OFFICE 128C	115	0.06	7	1	5	5	13	0.8	16	20	-	
CORRIDOR TO LOCKER	60	0.06	4	-	-	-	-	-	4	20	-	DOOR TRANSFER
JANITOR'S CLOSET 128I	15	-	-	-	-	-	-	-	-		50	
MECHANICAL ROOM 128H	247	0.12	30	-	10	-	30	0.8	37	70	-	50CFM/FIXT.
EAST SIDE												
TRAINER'S ROOM 130F	200	0.06	12	2	5	10	22	0.8	28	30	-	
STORAGE 130E	224	0.12	27	-	-	-	27	0.8	34	40	50	
STORAGE 130D	224	0.12	27	-	-	-	-	0.8	34	40	50	
BATHROOM 130C	66	-	-	-	-	-	-	0.8	-	85	100	50CFM/SF/
OFFICE 130B	102	0.06	6	1	5	5	11	0.8	14	20	-	
CORRIDOR	105	0.06	6	-	-	-	6	0.8	8	20	-	
MECHANICAL ROOM 130A	125	0.12	15	-	-	-	-	-	15	20	-	
CORRIDOR 130	477	0.06	29	-	-	-	29	0.8	36	50	-	
VESTIVULE 130G	45	0.06	3	-	-	-	3	0.8	3	-	-	DOOR TRANSFER
WOME'S TOILET 130H	53	-	-	-	-	-	-	-	-	-	50	50CFM/FIXT.
JANITO'S CLOSET 130J	16	0.06	-	-	-	-	-	-	-	-	50	50CFM/FIXT.
VESTIVULE 130I	108	0.06	6	-	-	-	6	0.8	8	40	-	
MEN'S BATHROOM 130K	99	-	-	-	-	-	-	-	-	85	100	50CFM/FIXT.
OFFICE 130L	150	0.06	9	1	5	5	14	0.8	18	20	-	
OFFICE 130M	167	0.06	10	5	5	25	35	0.8	44	45	-	
SGI ROOM 130N	343	0.12	41	10	5	50	91	0.8	114	115	-	
TOTAL	4,990		281	21		105	342					

Date 9/25/20
Checked Value
Drawn Value
REGISTERED ARCHITECT
MICHAEL J. MCGOVERN, R.A.
02257-1
The REGISTERED ARCHITECT
MICHAEL J. MCGOVERN, R.A.
02257-1

Revisions:
BID CONFORMANCE SET
11/20/20

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MECHANICAL DETAILS & VENT. SCHD.
RENOVATIONS TO THE PHYSICAL ED. DEPARTMENT
WESTLAKE HIGH SCHOOL
825 WEST LAKE DRIVE
THORNWOOD, NY 10594

Job No. 4.1449.08
File No. 4144908M101

M6.03

SED PROJECT #66-08-01-06-0-005-020