

ABBREVIATIONS

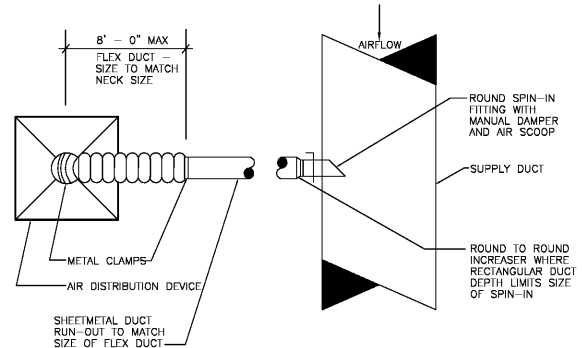
A/C	ABOVE CEILING	ID	INSIDE DIMENSION
AD	ACCESS DOOR	IN	INCHES
ADJ	ADJUSTABLE		
AFF	ABOVE FINISHED FLOOR	KW	KILOWATTS
AUTO	AUTOMATIC		
AC	AIR CONDITIONING		
AHU	AIR HANDLING UNIT		
BAL	BALANCING	LAT	LEAVING AIR TEMPERATURE
BDD	BACKDRAFT DAMPER	LG	LINEAR GRILLE
B/F	BELOW FLOOR	LRG	LINEAR RETURN GRILLE
B/G	BELOW GRADE	LWR	LOOP WATER RETURN
BTL	BITTERLY	LWS	LOOP WATER SUPPLY
BHP	BRAKE HORSEPOWER		
BOD	BASE CLEANOUT	MIN	MINIMUM
		MAX	MAXIMUM
		MD	MANUAL DAMPER
		MOP	MOTOR OPERATED DAMPER
		MFR	MANUFACTURER
CFM	CUBIC FEET PER MINUTE		
CBCR	CURVED BLADE CEILING REGISTER		
CD	CEILING DIFFUSER		
CJ	CONDENSING UNIT	NC	NORMALLY CLOSED
CW	COLD WATER (DOMESTIC)	NG	NATURAL GAS
CWS	CHILLED WATER SUPPLY	NFHW	NON-FREEZE WALL HYDRANT
CWR	CHILLED WATER RETURN	NO	NORMALLY OPEN
CWTR	CONDENSER WATER SUPPLY	NOM	NOMINAL
CR	CONDENSER WATER RETURN		
CON	CONCENTRIC CLEANOUT		
CO	CONDENSATE	OA	OUTSIDE AIR
COND		OD	OUTSIDE DIMENSION
db	DRY BULB		
DN	DOWN	PID	POWERMED INDUCTION UNIT
DR	DRAIN	PSI	POUNDS PER SQUARE INCH
db	DECIBELS		
DWG	DRAWING		
EA	EACH	RA	RETURN AIR RADIUS
EAT	ENTERING AIR TEMPERATURE	RAC	RETURN AIR GRILLE
ECC	ECCENTRIC	RED	REDUCER
EF	EXHAUST FAN	RL	REFRIGERANT LIQUID
ED	EMERGENCY DOWNFLOW DRAIN	RS	REFRIGERANT SUCTION
ER	EXHAUST REGISTER	RTU	ROOFTOP UNIT
ESP	EXTERNAL STATIC PRESSURE	RAR	RETURN AIR REGISTER
EW	ENTERING WATER TEMPERATURE		
EXH	EXHAUST	SP	STATIC PRESSURE
EFF	EFFICIENCY	SPS	STATIC PRESSURE SENSOR
F	FAHRENHEIT	SA	SUPPLY AIR
FCO	FLOOR CLEANOUT	SD	SMOKE DAMPER
FCU	FAN COIL UNIT	SEN	SENSIBLE
FSD	FIRE/SMOKE DAMPER	SR	SUPPLY REGISTER
FD	FIRE DAMPER OR FLOOR DRAIN	ST	STORM
FL DR	FLOOR DRAIN (SINK)	SS	SPLIT SYSTEM
FLR	FLOOR	TEMP	TEMPERATURE
FOB	FLAT ON BOTTOM	TG	TRANSFER GRILLE
FOR	FUEL OIL RETURN	Typ	TYPICAL
FOS	FUEL OIL SUPPLY		
FOT	FLAT ON TOP		
FPM	FEET PER MINUTE		
FPS	FEET PER SECOND	UON	UNLESS OTHERWISE NOTED
FT	FEET		
G	GATE	V	VENT
GA	GAUGE	VA	VALVE
GPM	GALLONS PER MINUTE	VIR	VENT THRU ROOF
GL	GLOBE	VAV	VARIABLE AIR VOLUME
GCO	GRADE CLEANOUT		
HD	HUB DRAIN	wb	WET BULB
HP	HORSEPOWER	wc	WATER COLUMN
HIG	HEATING	WHA	WATER HAMMER ARRESTOR
HW	HOT WATER (DOMESTIC)	WT	WEIGHT
HWR	HOT WATER RETURN	W	WASTE
HWRR	HOT WATER REVERSE RETURN		
HWS	HOT WATER SUPPLY		
HZ	HERTZ		

LEGEND

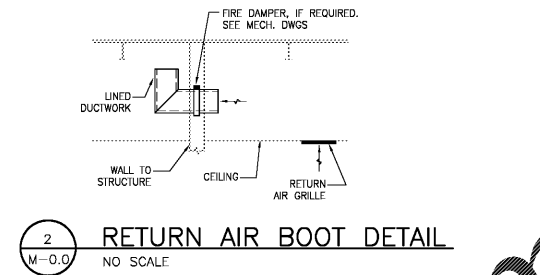
	CEILING DIFFUSER
	CEILING RETURN AIR GRILLE or EXHAUST GRILLE
	SIDE-WALL or DUCT MOUNTED REGISTER
	SLOT DIFFUSER
	MANUAL VOLUME DAMPER
	FIRE DAMPER, FIRE SMOKE DAMPER
	THERMOSTAT
	HUMIDISTAT
	CO2 MONITOR
	MOTOR OPERATED DAMPER
	EXISTING WORK
	NEW WORK
	WORK TO BE REMOVED
	SMOKE DETECTOR
	PRESSURE REGULATOR VALVE
	5 PSI to 7\"/>

GENERAL NOTES

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE TENANT MECHANICAL SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, OPTIONS AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL ITEMS AND LABOR REQUIRED FOR A COMPLETE TENANT MECHANICAL SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THE BASE BUILDING CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ADDITIONS TO THE CONTRACT.
2. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT PARTITION LAYOUTS, REFLECTED CEILING PLANS, DIMENSIONS, ETC.
3. EXISTING MECHANICAL EQUIPMENT AND DUCTWORK ARE SHOWN BY DASHED LINES. NEW WORK AND RELOCATED WORK ARE SHOWN BY SOLID LINES. EXISTING WORK TO BE REMOVED IS SHOWN CROSSHATCHED. WHEN ANY DUCTWORK OR AIR DISTRIBUTION DEVICE IS REMOVED, THE ASSOCIATED TRUNK DUCT SHALL BE SEALED AIRTIGHT WITH A SHEET METAL PATCH OR CAP.
4. VISIT SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. THE EXISTING CONDITIONS SHOWN ARE BASED ON DOCUMENTS PROVIDED BY OTHERS AND HAVE NOT BEEN VERIFIED BY THE ENGINEER. IF EXISTING CONDITIONS DIFFER FROM DRAWINGS IN SUCH A MANNER THAT WILL AFFECT PRICING, (I.E., DUCTWORK, VAV OR PIU ARE NOT IN THE SHOWN LOCATION) CONTRACTOR WILL NOTIFY OWNER SO THAT A RESOLUTION CAN BE MADE PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES. IF ANY ITEMS ARE NOT SHOWN ON THE REFLECTED CEILING PLANS, PREPARE A DRAWING OF THE PROPOSED LOCATION AND PRESENT IT TO THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
6. ALL ROUND AND FLEXIBLE DUCTWORK EXTENDING TO DIFFUSERS SHALL BE SIZED FULL SIZE OF DISTRIBUTION DEVICE INLET, AND TAPS TO THE EXISTING LOW-PRESSURE DUCTWORK SHALL BE MADE WITH SPIN-IN FITTINGS HAVING INTEGRAL SCOPES AND VOLUME DAMPERS. ALL NEW RECTANGULAR DUCTWORK SHALL BE MADE WITH SPLITTERS OR EXTRACTORS. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA DUCT STANDARDS. (NEW LOW PRESSURE SPIN-IN FITTINGS AND TAPS SHALL NOT BE MADE WITHIN 5 FT. OF OUTLET OF HEAT PUMP OR FAN COIL. NEW LOW PRESSURE SPIN-IN FITTINGS SHALL BE MADE NO CLOSER THAN 2'-6" ON CENTERS.)
7. FLEXIBLE DUCTS SHALL BE INSTALLED FREE OF SAGS AND KINKS; SUPPORTED AT NOT MORE THAN 48" O.C.
8. THOSE SLOT DIFFUSERS INDICATED SHALL BE RELOCATED TO THE SIDE OF THE NEW PARTITIONS INDICATED. NO SLOT DIFFUSER SHALL BE ALLOWED TO STRADDLE A PARTITION.
9. NEW PERIMETER SLOT DIFFUSERS SHALL BE PROVIDED AS REQUIRED, AND SELECTED IN ACCORDANCE WITH BASE BUILDING STANDARD.
10. TEST AND BALANCE ALL DIFFUSERS, BOXES, FANS, ETC. TO THE AIRFLOWS AND CONDITIONS INDICATED. ALL EXISTING DIFFUSERS, BOXES, FANS, ETC. WHICH ARE NOT NOTED OTHERWISE SHALL BE BALANCED TO THEIR PRIOR DESIGN AIRFLOWS; REFER TO THE EXISTING RECORD DRAWING AVAILABLE FROM THE OWNER. TESTING AND BALANCING OF HVAC SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF ABC AND SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN ABC CERTIFIED TEST AND BALANCE ENGINEER. SUBMIT 4 COPIES OF THE REPORT TO THE OWNER. NEB AGENCIES ARE NOT ACCEPTABLE AND ARE CAUSE FOR REJECTION.
11. ALL CONTROL WORK SHALL BE PERFORMED BY A BUILDING APPROVED CONTROLS CONTRACTOR. CONTRACTOR SHALL UPDATE BUILDING CONTROL GRAPHICS AS PART OF SCOPE.
12. ALL CONTROL WIRING INSTALLED ABOVE THE CEILING SHALL BE LOCATED AS HIGH ABOVE THE CEILING AS POSSIBLE, SHALL FOLLOW THE DESIGNATED GENERAL ROUTING OF THE DUCTWORK, AND SHALL BE PLENUM RATED. DO NOT HANG WIRING FROM DUCTWORK; SUSPEND WIRING FROM THE STRUCTURE.
13. THERMOSTATS SHALL BE LOCATED IN EACH ZONE AS SHOWN. THE EXACT LOCATION ON THE WALL INDICATED SHALL BE AS DIRECTED BY THE ARCHITECT. NEW THERMOSTATS SHALL BE SELECTED TO MATCH EXISTING BASE BUILDING THERMOSTATS AND SHALL BE COMPATIBLE WITH EQUIPMENT SERVED. CONTRACTOR SHALL UPDATE BUILDING CONTROL GRAPHICS TO MATCH NEW LAYOUT.
14. ADJUST ALL DIFFUSERS IN CORRIDORS OR WITHIN 3 FEET OF A WALL TO PROVIDE 2-WAY OR 3-WAY BLOW AWAY FROM OR PARALLEL TO WALLS. ALL LAY-IN DIFFUSERS SHALL HAVE 4-WAY BLOW UNLESS NOTED OTHERWISE.
15. PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREA SHALL BE PAINTED FLAT BLACK.
16. SHEET METAL SUPPLY DUCTWORK SHALL BE INSULATED WITH 2" THICK FIBERGLASS DUCT INSULATION WITH FOIL VAPOR BARRIER U/L LISTED. EXHAUST DUCTWORK SHALL NOT BE INSULATED UNLESS OTHERWISE NOTED.
17. LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.
18. ACCESS PANELS SHALL BE PROVIDED AS REQUIRED FOR ALL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILING. THE EXACT SIZE AND PLACEMENT OF ALL ACCESS PANELS SHALL BE COORDINATED WITH THE APPROVED EQUIPMENT AND SHOP DRAWINGS. SPECIFICATION OF ACCESS PANELS SHALL BE BY THE ARCHITECT. WHERE NO SPECIFICATION IS AVAILABLE WING-LOCK IS THE PREFERRED MANUFACTURER (SEAMLESS TYPE). FINAL APPROVAL OF ALL LOCATIONS AND SIZES SHALL REST WITH THE ARCHITECT AND AUTHORITY HAVING JURISDICTION.
19. COORDINATE ALL WORK ON OTHER FLOORS AND IN OTHER TENANT SPACES WITH OWNERS REP SO THAT WORK DOES NOT INTERFERE WITH OTHER TENANTS.
20. CONTRACTOR TO INSTALL PRE-FILTER MEDIA OVER FILTER RACK ON AIR HANDLING UNIT PRIOR TO START OF DEMOLITION. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FILTERS IN AIR HANDLING UNITS AFTER CONSTRUCTION IS COMPLETE.
21. CONTRACTOR SHALL CLEAN SITE AT END OF PROJECT. ALL DUST, DEBRIS, OILS, STAINS, FINGERPRINTS, AND LABELS SHALL BE REMOVED FROM ALL EXPOSED FINISHED SURFACES. MECHANICAL ROOMS SHALL BE PUT BACK AS FOUND.
22. CONTRACTOR TO PROVIDE PREVENTATIVE MAINTENANCE ON THE AIR HANDLERS AND EXISTING PLUMBING HVAC EQUIPMENT. PROVIDE A REPORT OF ALL DEFICIENCIES TO PROPERTY MANAGEMENT.

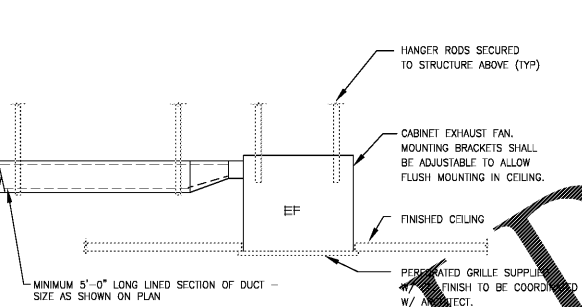


1 DIFFUSER CONNECTION DETAIL
M-0.0 NO SCALE

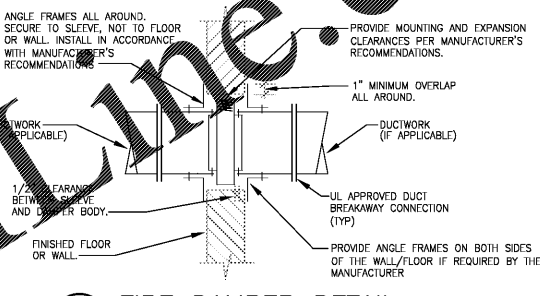


2 RETURN AIR BOOT DETAIL
M-0.0 NO SCALE

NOTES:
1. SEE MECH DWGS FOR DUCT SIZE. DUCT SIZE GIVEN IN SQUARE FEET OF FREE AREA. CONTRACTOR TO COORDINATE DUCT SIZE WITH ALL OTHER EQUIPMENT IN PLENUM.
2. RA BOOT OPENINGS SHALL BE AT LEAST 6\"/>

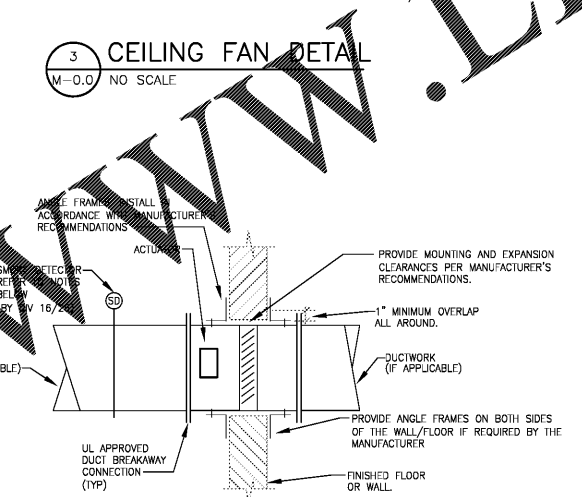


3 CEILING FAN DETAIL
M-0.0 NO SCALE



4 FIRE DAMPER DETAIL
M-0.0 NO SCALE

NOTES:
INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL MAINTAIN THE MANUFACTURER'S UL LISTING.



5 FIRE/SMOKE DAMPER DETAIL
M-0.0 NO SCALE

NOTES:
SMOKE DETECTOR (SD) SHALL BE MOUNTED WITHIN 5'-0" OF THE FIRE/SMOKE DAMPER (FSD) WITH NO AIR OUTLETS OR INLETS BETWEEN THE SMOKE DETECTOR AND THE FSD. IF THE FSD IS INSTALLED IN AN UNDUCTED SITUATION, A SPOT TYPE SMOKE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE SUPPLIED WITHIN 5 FEET HORIZONTALLY OF THE DAMPER. SMOKE DETECTOR SHALL BE PROVIDED BY DIV 16/26. DUCT TYPE DETECTORS SHALL BE INSTALLED BY DIV 15/23 ALL OTHER SHALL BE INSTALLED BY DIV 16/26. INTERLOCK SD TO SHUT FSD UPON DETECTION OF SMOKE. FSD SHALL ALSO BE CLOSED IF AIRFLOW ACROSS SMOKE DETECTOR IS NOT OF ADEQUATE VELOCITY FOR IT TO SAMPLE. AFTER SMOKE DETECTION OPERATION, FSD SHALL AUTOMATICALLY RESET AND OPEN AFTER THE ALARM IS CLEARED.

INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL MAINTAIN THE MANUFACTURER'S UL LISTING.

FAN SCHEDULE

I.D. TAG	CAPACITY (CFM)	S.P. (IN. WG)	MOTOR H.P.	DRIVE	VOLTS/PHASE	MAXIMUM FAN RPM	MAXIMUM NOISE	TYPE OF FAN	BASIS OF DESIGN	REMARKS
EF-1	75	0.35	F	DIRECT	277/1	---	1.0 SONES	CEILING EXHAUST	GREENHECK SP SERIES	① ② ③
EF-2	400	0.25	F	DIRECT	120/1	---	3.5 SONES	CEILING EXHAUST	GREENHECK SP SERIES	① ② ③

- ① PROVIDE WITH GRAVITY BACKDRAFT DAMPER AND DISCONNECT.
- ② PROVIDE FAN WITH A SPEED CONTROLLER MOUNTED ON THE FAN FOR BALANCING PURPOSES.
- ③ INTERLOCK WITH LIGHTS TO ROOM. COORDINATE WITH DIVISION 26.
- ④ PROVIDE WITH LINE VOLTAGE THERMOSTAT LOCATED IN SPACE PER DRAWINGS.

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MECHANICAL
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DETAILS, AND
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