

GENERAL NOTES:

- SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OR ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN TO 1/4" SCALE OR THE SCALE SHOWN ON THE DRAWINGS; REFRIGERANT PIPING AND CONTROL WIRING SCHEMATICS CERTIFIED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER; FAILURE TO SUBMIT REFRIGERANT PIPING DRAWINGS SHALL BE CAUSE FOR REJECTION OF THE ENTIRE SUBMITTAL.
- ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. ENSURE ALL RECOMMENDED CLEARANCES ARE MAINTAINED.
- ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER OWNER OCCUPANCY. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 4-YEAR MANUFACTURER'S WARRANTY FOR A 5-YEAR WARRANTY.
- PORTIONS OF DUCTWORK AND PIPE INSULATION VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- MOUNT TOP OF THERMOSTATS AND SENSORS 4'-0" AFF UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING GUARD ASSEMBLIES FOR ALL OPEN AREA THERMOSTATS. COORDINATE THERMOSTAT LOCATIONS WITH OTHER TRADES. ALL THERMOSTATS SHALL BE ADA COMPLIANT.
- ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS. WORK IN HAZARDOUS AREAS SHALL BE PERFORMED IN ACCORDANCE WITH OWNER'S REQUIREMENTS.
- AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED TO DELIVER THE AIR QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED (AABC OR NEBB) TESTING AND BALANCING REPORT TO THE ENGINEER/ARCHITECT.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECTS.
- PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS. ACCESS PANELS IN CEILING AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE ARCHITECTURAL DRAWINGS OR NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
- ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A SEMI-RIGID PLASTIC LAMINATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY AFFIXED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS. AFFIX LABELS ON EQUIPMENT SO THAT IT IS VISIBLE AT THE ROOF LEVEL AND PLACE ANOTHER LABEL THAT IS VISIBLE FROM THE FLOOR LEVEL BELOW.
- REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES, HEIGHTS, FLOOR AND CEILING ASSEMBLY UL RATINGS AND DETAILS.
- SLEEVE ALL WALL PENETRATIONS. SLEEVE INTERSTITIAL SPACE. PROVIDE 22-GAUGE METAL ANGLES AROUND DUCT PENETRATION THROUGH WALLS EXPOSED TO VIEW.
- THE CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL COMPLETE THE WORK SHOWN ON THESE DRAWINGS. CONTRACTOR TO TAKE INTO CONSIDERATION ALL EXISTING CONDITIONS AND INDICATE ANY ISSUES TO ENGINEER COMMENCEMENT OF WORK. ALL SYSTEMS SHALL BE FINISHED, TESTED AND BALANCED, ADJUSTED, AND PROVEN TO BE FULLY OPERATIONAL AND USEABLE.
- ADJUST ALL DIFFUSERS IN CORRIDORS OR WITHIN THREE (3) FEET OF A WALL TO PROVIDE 2-WAY OR 3-WAY BLOW AWAY FROM OR PARALLEL TO WALLS. ALL DIFFUSERS SHALL HAVE 4-WAY BLOW UNLESS NOTED OTHERWISE.
- ALTERNATE MANUFACTURERS AND MODELS WILL BE REVIEWED. THERE MAY BE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL CHANGES RESULTING FROM THE ALTERNATES. THE COST OF IMPLEMENTING AND ENGINEERING THESE CHANGES SHALL BE BORNE BY THE MECHANICAL SUBCONTRACTOR.

MECHANICAL/ELECTRICAL COORDINATION:

- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN. SHOP DRAWING SUBMITTAL SHALL CLEARLY STATE THAT THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT HAS BEEN COORDINATED WITH THE ELECTRICAL CONTRACT DOCUMENTS AND THE ELECTRICAL CONTRACTOR.
- ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND THE ELECTRICAL DRAWINGS.
- ALL REQUIRED CONTROL WIRING (INCLUDING POWER WIRING REQUIRED FOR CONTROL PANELS, DEVICES, ETC.) NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
- UNLESS NOTED OTHERWISE, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED WITH THE EQUIPMENT IT SERVES AND INSTALLED BY THE MECHANICAL CONTRACTOR. MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED WITH THE MOTOR OR APPARATUS WHICH IT OPERATES. MOTOR STARTER INSTALLATION SHALL BE BY THE DIVISION 26 CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS OF ALL HVAC EQUIPMENT (VOLTAGE, PHASE, ETC.) WITH THE ELECTRICAL CONTRACTOR AND ELECTRICAL PLANS BEFORE ORDERING ANY MECHANICAL EQUIPMENT. ANY SUBSEQUENT MISMATCH BETWEEN MECHANICAL EQUIPMENT, ELECTRICAL REQUIREMENTS, AND THE ELECTRICAL SERVICE, AS DESIRED AND PROVIDED SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

MECHANICAL NOTES:

- COORDINATE EXACT LOCATION OF ALL NEW EQUIPMENT WITH ARCHITECTS FINISHED CEILING PLAN, SPRINKLER PIPING AND ELECTRICAL CONDUITS. ALSO, CONTRACTOR SHALL COORDINATE WITH OWNER SUPPLIED AND INSTALLED EQUIPMENT. NO EXTRAS SHALL BE AWARDED FOR REVISIONS CAUSED BY LACK OF COORDINATION.
- DRAWINGS ARE DIAGRAMMATIC, THEREFORE DETERMINE EXACT LOCATIONS OF SYSTEMS/COMPONENTS IN FIELD USING FIELD CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FOLLOWING OWNERS RULES AND STANDARDS PRIOR TO BID. WORK AND COMPLETION OF PROJECT.
- ALL EQUIPMENT DUCTS AND PIPING PENETRATING THE NEW FIRE RATED WALLS TO BE FIRE RATED.
- CONTRACTOR SHALL ROUTE DUCTWORK WITHIN THE CEILING SPACE AS HIGH AS POSSIBLE TO MAINTAIN CLEARANCE ALLOWABLE.

PIPING:

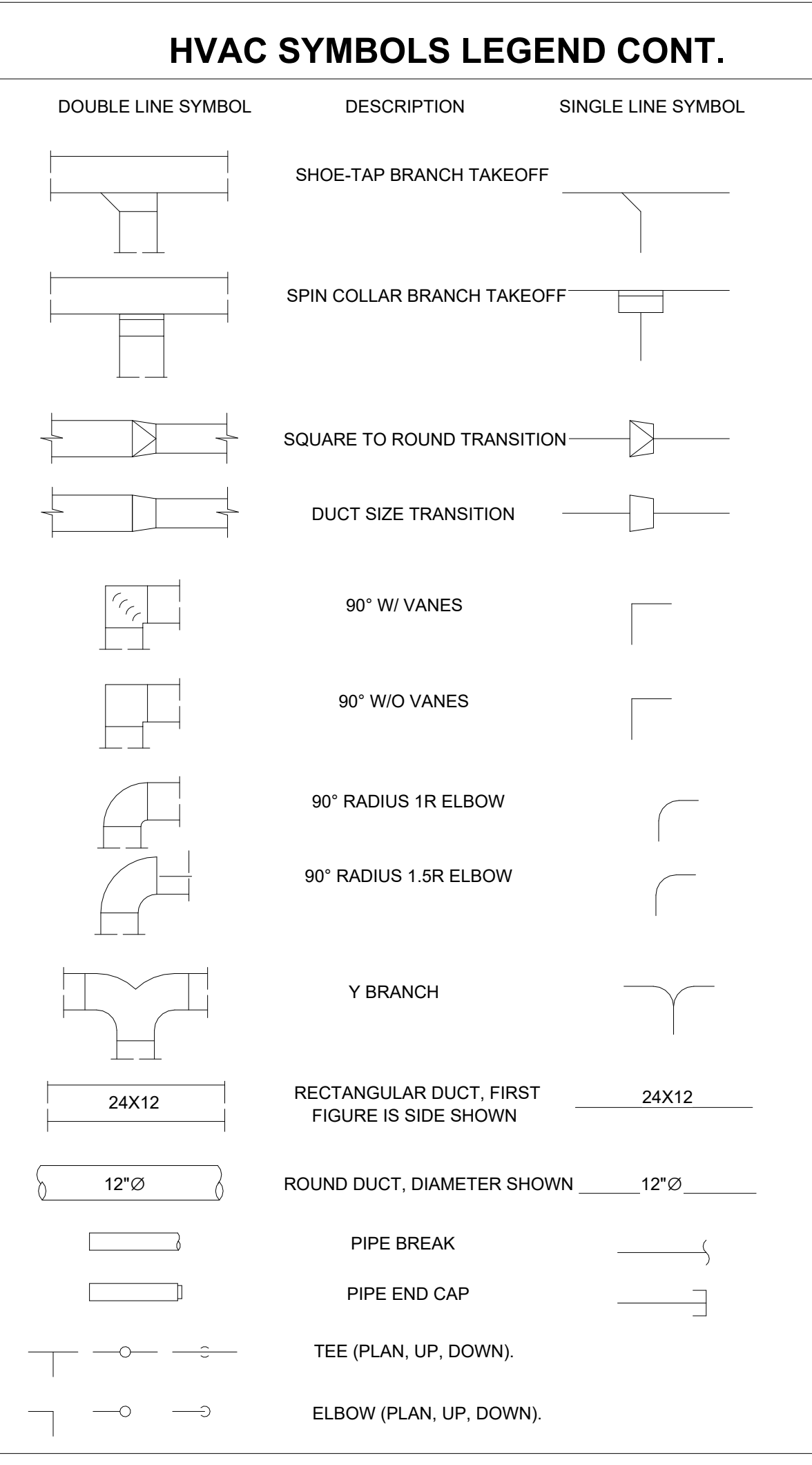
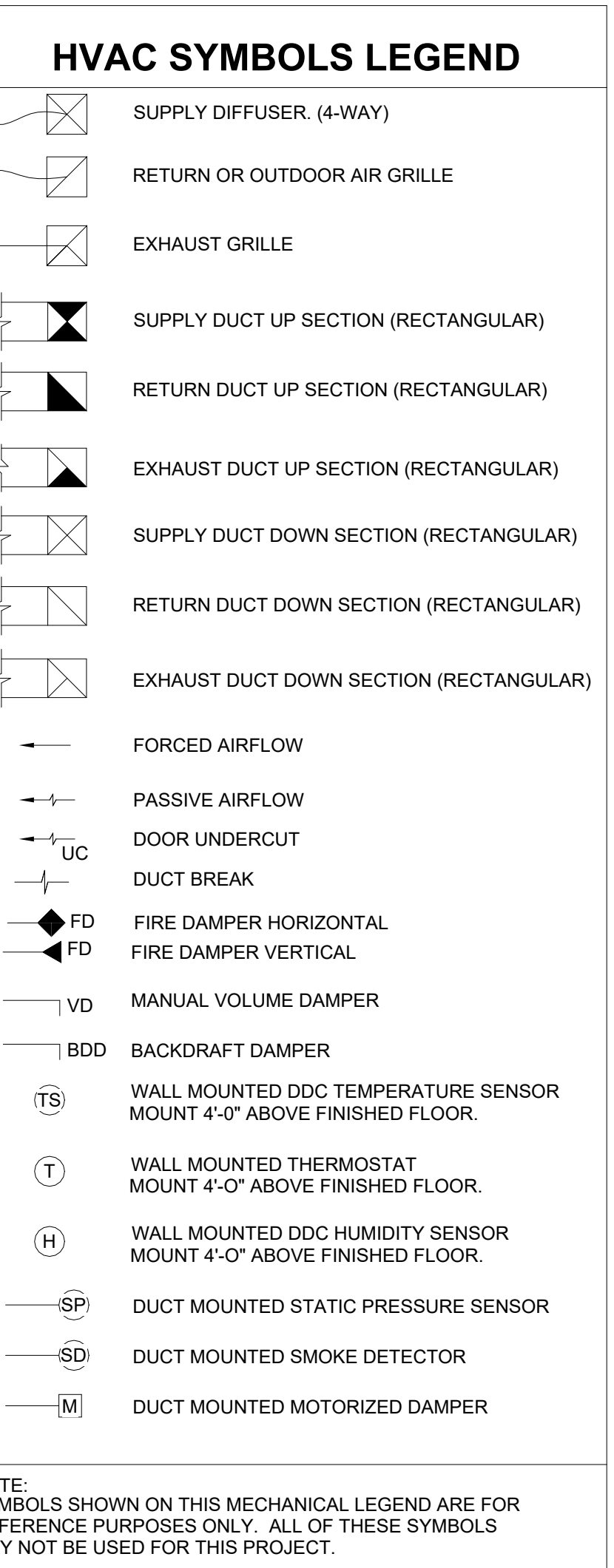
- REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS.
- CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE APPROVED DISCHARGE LOCATION. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS). CONDENSATE SHALL BE PUMPED AS REQUIRED. PVC CONDENSATE PIPING EXPOSED TO WEATHER SHALL BE UV PROTECTED PER MANUFACTURER'S RECOMMENDATIONS. SLOPE CONDENSATE PIPING AT MINIMUM 1/8" PER FOOT.
- ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.
- WHERE MAXIMUM OPERATING PRESSURE IS GREATER THAN 150 PSIG IN ANY SYSTEM, CONTRACTOR SHALL FURNISH AND INSTALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES WITH PRESSURE CLASSIFICATIONS THAT ARE SUITABLE FOR SERVICE.

AIR DISTRIBUTION:

- SUPPLY, RETURN, AND O.A. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. LATEST EDITION. ALL JOINTS AND SEAMS IN ALL SHEETMETAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.
- EXTERIOR SUPPLY AND RETURN DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL WITH ALL SEAMS CAULKED AND SEALED WEATHERTIGHT.
- ALL OPEN ENDED DUCTS AND FAN OUTLETS SHALL HAVE 1/2" X 1/2" HARDWARE CLOTH AFFIXED OPENING.
- EXHAUST DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE PER SMACNA STANDARDS.
- FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL. PROVIDE THERMAFLEX M-KE R-6 (R-VALUE -4.6 MINIMUM OR AS REQUIRED BY LOCAL ENERGY CODE) IN ATTICS AND OTHER UNCONDITIONED SPACES. AIR CONNECTORS ARE NOT ACCEPTABLE. FLEX DUCT DIAMETER SHALL MATCH DEVICE NECK DIAMETER. PROVIDE ROUND GALVANIZED STEEL DUCT RUNOUTS TO MAINTAIN A MAXIMUM FLEXIBLE DUCT LENGTH OF 8'-0". FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED.
- ROUND AND FLEXIBLE SUPPLY AIR DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH A SPIN IN FITTING AND BALANCING DAMPER. WHERE INSTALLED ABOVE IN-ACCESSIBLE CEILINGS, THE DAMPER SHALL BE IN THE NECK OF THE AIR DEVICE.
- DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
- EXTERNAL STATIC PRESSURE (ESP) DOES NOT INCLUDE COIL, CASING OR FILTER PRESSURE DROP.
- LOCATIONS OF GRILLES, REGISTERS, AND DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC. AND ARCHITECTURAL REFLECTED CEILING PLAN.

INSULATION:

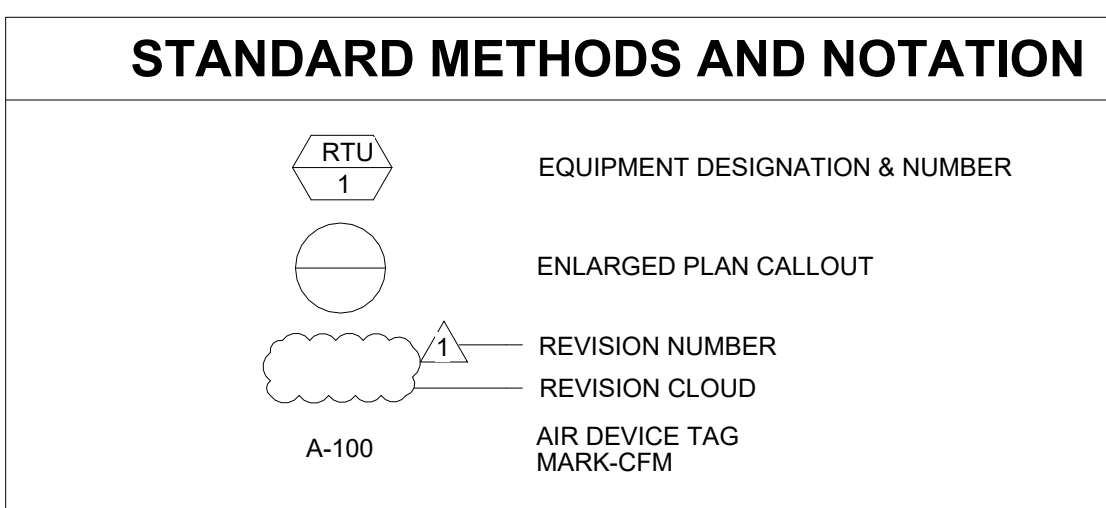
- DUCT INSULATION:
 - DUCT WRAP SHALL BE UL LISTED FIBERGLASS BLANKET INSULATION WITH FOIL VAPOR BARRIER. PUNCTURES AND TEARS IN THE FOIL JACKET SHALL BE PATCHED WITH FOIL TAPE TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER. INSULATE SHEET METAL DUCTWORK IN THE THICKNESS AND DENSITIES AS LISTED BELOW:
 - SHEET METAL SUPPLY AND RETURN DUCTWORK IN NON-AIR CONDITIONED AREAS: 2.2" THICK, 3/4 LB/FT³ DENSITY (MIN R-8)
 - SHEET METAL SUPPLY AND RETURN DUCTWORK IN AIR CONDITIONED AREAS: 2.2" THICK, 1-1/2 LB/FT³ DENSITY (MIN R-6)
 - SHEET METAL OUTSIDE DUCTWORK IN NON-AIR CONDITIONED AREAS: 2.2" THICK, 3/4 LB/FT³ DENSITY (MIN R-8)
 - SHEET METAL OUTSIDE AIR DUCTWORK IN AIR CONDITIONED AREAS: 2.2" THICK, 1-1/2 LB/FT³ DENSITY (MIN R-8)
 - SHEET METAL SUPPLY AND OR RETURN AIR DUCTWORK INDICATED TO BE INTERNALLY LINED IN LIEU OF EXTERNAL DUCT WRAP SHALL BE LINED WITH 1-1/2" THICK 3 PCF FIBERGLASS DUCT LINER BOARD (MINIMUM R-6.5). INSULATED DUCTS EXPOSED IN FINISHED AREAS SHALL BE LINED.
- PIPE INSULATION:
 - REFRIGERANT SUCTION PIPING SHALL BE INSULATED WITH 1-1/2" THICK FLEXIBLE ELASTOMERIC TUBING INSULATION. AP APPROXIMATE PIPE INSULATION MANUFACTURED BY ARMAFLEX OR EQUAL. INSULATION SHALL BE SLID OVER PIPING FROM ONE END BEFORE PIPE ENDS ARE JOINED AND SHALL NOT BE SLIT OR CUT. ALL JOINTS AND SEAMS SHALL BE SEALED WEATHER-TIGHT. FINISH COAT FOR FLEXIBLE ELASTOMERIC INSULATION INSTALLED OUTDOORS SHALL BE WATER-BASED LATEX ENAMEL DESIGNED FOR USE OVER ALL FORMS OF FLEXIBLE ELASTOMERIC INSULATION. FINISH COAT SHALL PROVIDE A PROTECTIVE FINISH SUITABLE TO BOTH INDOOR AND OUTDOOR APPLICATIONS, FORMULATED FOR COLD WEATHER FLEXIBILITY TO RESIST CRACKING AND WEATHER-RESISTANT TO ULTRAVIOLET (UV) AND OZONE. COATING SHALL BE ARMAFLEX VB FINISH OR EQUIVALENT.



CODE IDENTIFICATION

BUILDING CODE:	2023 FLORIDA BUILDING CODE
MECHANICAL CODE:	2023 FLORIDA BUILDING CODE - MECHANICAL
ENERGY CODE:	2023 FLORIDA BUILDING CODE - ENERGY CONSERVATION

NOTE: ALL WORK SHALL COMPLY WITH THE CODE IDENTIFIED ABOVE ALONG WITH ALL OTHER GOVERNING CODES AND ORDINANCES APPLICABLE TO THE SCOPE OF THIS PROJECT.



DESIGN CONDITIONS

OUTDOOR SUMMER DESIGN:	92.2°F DB / 78.9°F WB
OUTDOOR WINTER DESIGN:	31.6°F
OFFICES SUMMER DESIGN:	75°F, 50% RH
OFFICES WINTER DESIGN:	70°F

NOTE: BASED ON ASHRAE FUNDAMENTALS 2021 99.6% AND 0.4% CLIMATE DATA FOR APALACHICOLA REGIONAL, FL.

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET TITLE
M001	MECHANICAL TITLE SHEET
M101	MECHANICAL FIRST FLOOR PLAN
M501	MECHANICAL SCHEDULE

ABBREVIATIONS

ABV	ABOVE	EFF	EFFICIENCY	NC	NORMALLY CLOSED
AC	AIR CONDITIONER OR CONDITIONING	ELEC	ELECTRICAL	NO	NORMALLY OPEN
ADU	AIR CONDITIONING UNIT	ELEV	ELEVATION	NTS	NOT TO SCALE
ACU	ACCESS DOOR	ENT	ENTERING	OA	OUTSIDE AIR
ADJ	ADJUSTABLE	EQ	EQUAL	OB	OPPOSED BLADE DAMPER
AF	ABOVE FINISHED FLOOR	ETR	EXISTING TO REMAIN	OD	OUTSIDE DIAMETER
AFG	ABOVE FINISHED GRADE	EXH	EXHAUST	OPER	OPERATING
AHU	AIR HANDLING UNIT	F	FAHRENHEIT, DEGREE FAHRENHEIT	PC	PLUMBING CONTRACTOR
AL	ACOUSTICAL LINING	FCU	FAN COIL UNIT	PCD	PNEUMATIC CONTROL DAMPER
ALUM	ALUMINUM	FD	FIRE DAMPER, FLOOR DRAIN	PCV	PNEUMATIC CONTROL VALVE
AP	ACCESS PANEL	FM	FEET PER MINUTE	PD	PRESSURE DROP
APD	AIR PRESSURE DROP	FPS	FEET PER SECOND	PLBG	PLUMBING
ATC	AUTOMATIC TEMPERATURE CONTROL	FS	FIRE AND SMOKE DAMPER	PRS	PRESSURE REDUCING STATION
BMS	BUILDING MANAGEMENT SYSTEM	FT	FEET	PRV	PRESSURE REDUCING VALVE
BDD	BACK DRAFT DAMPER	GA	GAUGE	PSI	POUNDS PER SQUARE INCH
BHP	BRAKE HORSEPOWER	GAL	GALLON	PSIG	POUNDS PER SQUARE INCH GAUGE
BLDG	BUILDING	GALV	GALVANIZED	R	RELAY
BFP	BACKFLOW PREVENTER	GC	GENERAL CONTRACTOR	RA	RETURN AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	GPH	GALLONS PER HOUR	RD	RADIATION DAMPER
C	CELIUS, DEGREE CELSIUS	GPM	GALLONS PER MINUTE	REQD	REQUIRED
CA	COMPRESSED AIR	HB	HOSE BIBB	RF	RETURN FAN
CD	CONDENSATE DRAIN	HC	HANDICAPPED	RH	REHEAT, RELATIVE HUMIDITY
CENT	CENTRIFUGAL	HVAC	HEATING VENTILATING AND AIR CONDITIONING	RHC	REHEAT COIL
CFM	CUBIC FEET PER MINUTE	HP	HORSEPOWER	RPM	REVOLUTIONS PER MINUTE
CHW	CHILLED WATER	HVU	HEATING AND VENTILATING UNIT	RTU	ROOFTOP UNIT
CLG	CEILING	HP	HORSEPOWER	SA	SUPPLY AIR
CO	CLEAN OUT, CARBON MONOXIDE	HR	HOUR	SA	SUPPLY AIR
CO2	CARBON DIOXIDE	HZ	HERTZ (CYCLES PER SECOND)	SF	SQUARE FEET
CONC	CONCRETE	ID	INSIDE DIAMETER	T	THERMOSTAT
COP	COEFFICIENT OF PERFORMANCE	IN	INCH	TEMP	TEMPERATURE
CU	CUBIC FEET	IW	INDIRECT WASTE	TG	TRANSFER GRILLE
CV	CONSTANT VOLUME	KW	KILOWATT	TS	TEMPERATURE SENSOR
DCW	DOMESTIC COLD WATER	LAT	LEAVING AIR TEMP	TYP	TYPICAL
DDC	DIRECT DIGITAL CONTROL	LB	POUND, POUNDS	UNO	UNLESS OTHERWISE NOTED
DEG	DEGREE	LD	LINEAR DIFFUSER	V	VENT, VOLT
DF	DRINKING FOUNTAIN	LWT	LEAVING WATER TEMPERATURE	VD	VOLUME DAMPER, MANUAL
DISC	DISCONNECT	MAX	MAXIMUM	VERT	VERTICAL
DN	DOWN	MBH	THOUSAND BTU PER HOUR	VFD	VARIABLE FREQUENCY DRIVE
DWGS	DRAWINGS	MC	MECHANICAL CONTRACTOR	W	WATTS
DWV	DRAIN, WASTE AND VENT PIPING	MD	MOTOR OPERATED DAMPER	WO	WITHOUT
DX	DIRECT EXPANSION	MGFR	MINIMUM	W	WATTS
EA	EXHAUST AIR	MIN	MINIMUM	WV	WET BULB
EAT	ENTERING AIR TEMPERATURE	MOD	MOTOR OPERATED DAMPER	WC	WATER CLOSET
EC	ELECTRICAL CONTRACTOR	MOT	MOTOR STARTER	WPD	WATER PRESSURE DROP
EER	ENERGY EFFICIENCY RATIO	MVD	MANUAL VOLUME DAMPER	WS	WALL SWITCH
EF	EXHAUST FAN	M/S	METERS PER SECOND	WV	WASTE AND VENT
		N	NORTH	#	NUMBER
		NA	NOT APPLICABLE/NOT AVAILABLE		

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REVISION: 04/10/2024
 SCALE: AS SHOWN
 SHEET: M001
 PROJECT: RISH PARK BEACHSIDE DAY USE RESTROOM BUILDING

DESIGNED BY: JAD
 CHECKED BY: JAD
 APPROVED BY: JAD

PROFESSIONAL REGISTRATION NO. JEFFREY DEAL, PE
 TBD - Mech License

WILLIAM J. "RISH" PARK
 MECHANICAL TITLE SHEET

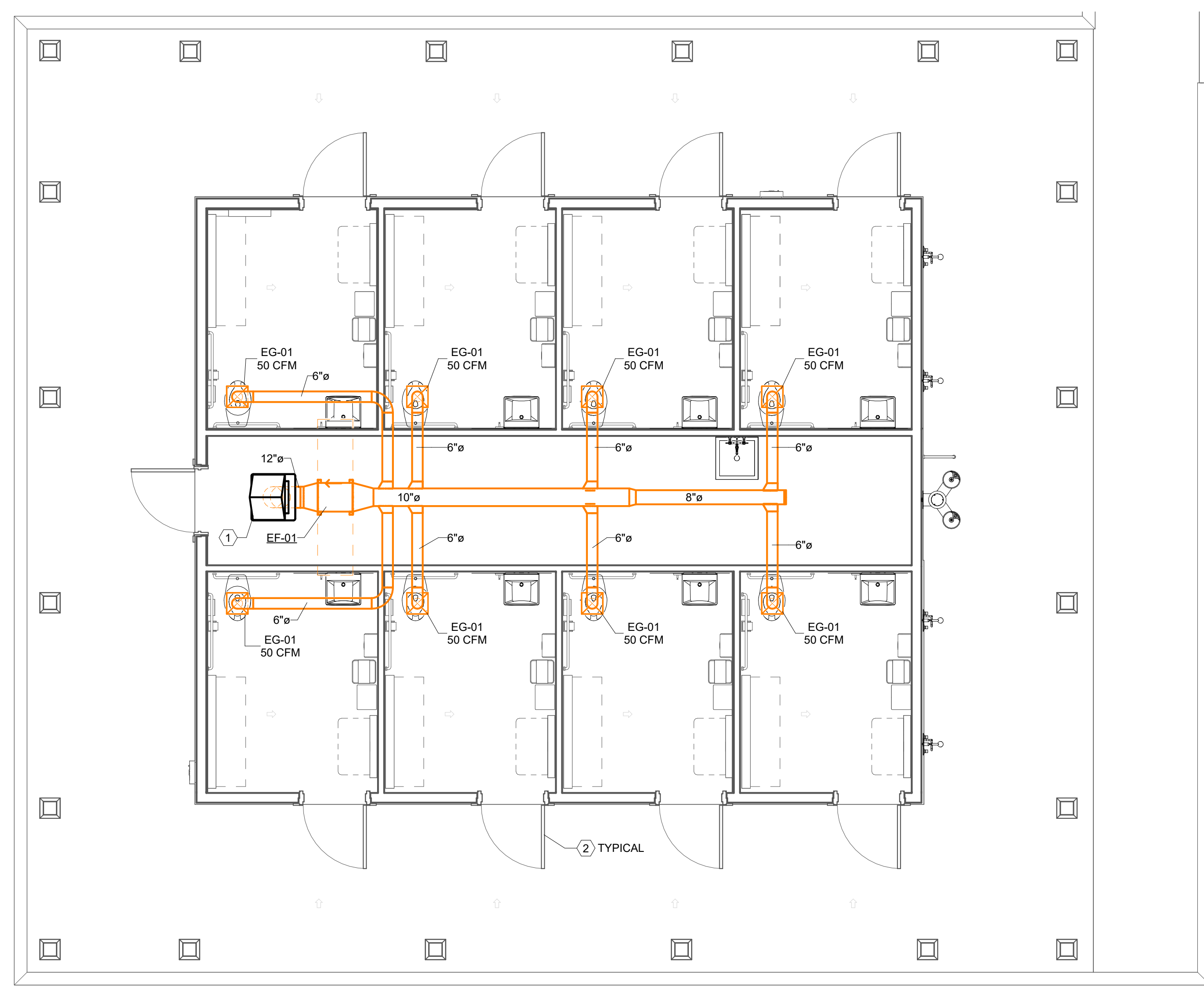
SHEET TITLE: MECHANICAL TITLE SHEET

SHEET NO. M001

GENERAL NOTES:

1. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
2. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
3. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
4. ACCURATE AND LEGIBLE RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
5. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
6. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
7. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
8. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
9. VERIFY MATERIALS OF CONSTRUCTION IN ALL ROOMS IDENTIFIED AS "PROCESS" BY CROSS REFERENCING THESE DRAWINGS WITH PROJECT MANUAL, TECHNICAL SPECIFICATIONS, AND OWNER INFORMATION. FAILURE TO REFERENCE TECHNICAL SPECIFICATIONS SHALL NOT BE CONSIDERED AS BASIS FOR AN EXTRA COST TO THE CONTRACT.
10. VERIFY ALL UTILITY DROP SIZES AND LOCATIONS TO PROCESS EQUIPMENT WITH OWNER AND PROCESS SYSTEM INSTALLING CONTRACTOR PRIOR TO INSTALLATION.
11. ALL HANGERS, SUPPORTS, RODS, ATTACHMENTS, ETC. USED TO SUPPORT PIPING, DUCTWORK, AND EQUIPMENT IN DESIGNATED PROCESS ROOMS/AREAS SHALL BE STAINLESS STEEL.

KEYNOTE LEGEND	
1	EXHAUST DUCTWORK TO TERMINATE TO ROOF CAP MENZIES METAL PRODUCTS BUR VENT TPO.
2	SEE ARCHITECTURAL DRAWINGS FOR DOOR LOUVER SPECIFICATIONS.

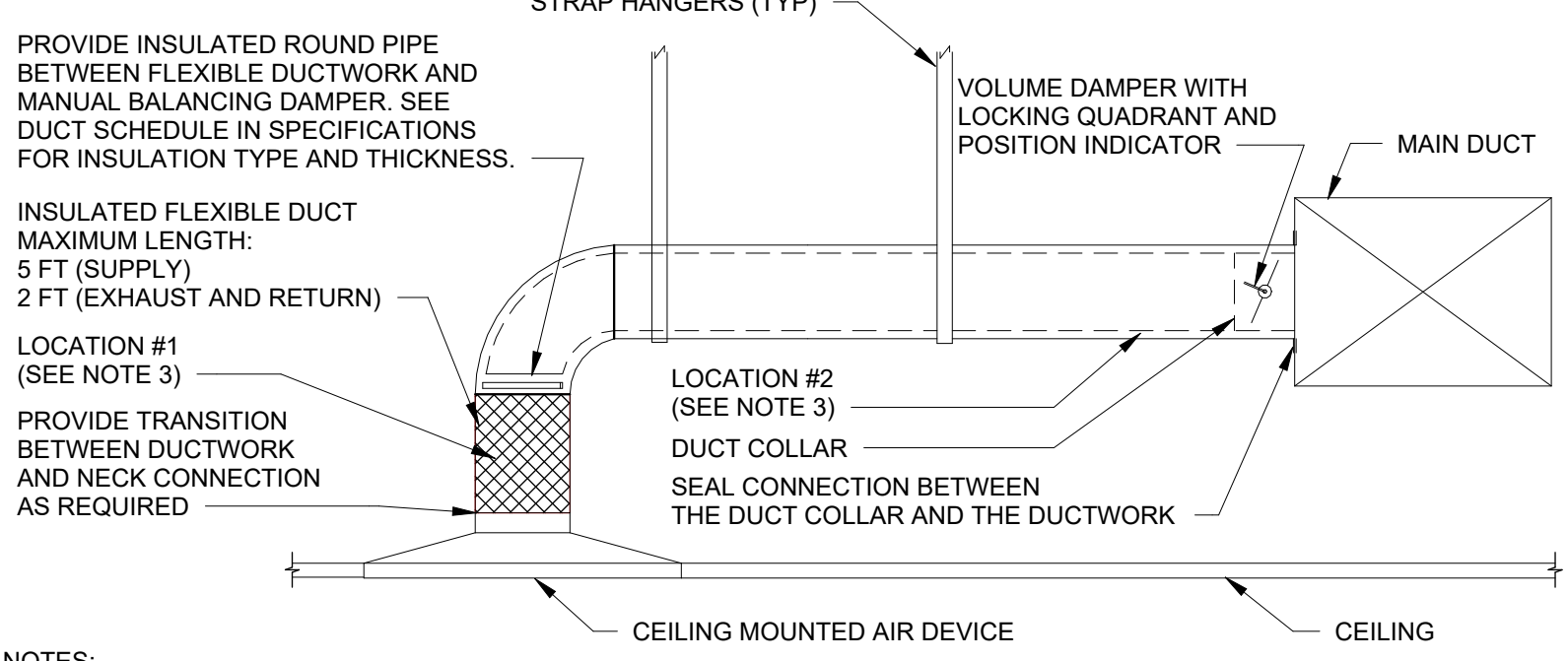


1 MECHANICAL FLOOR PLAN - BEACHSIDE DAY-USE
1/4" = 1'-0"

DATE	REVISION	DATE	REVISION	DATE	REVISION
DATE	REVISION	DATE	REVISION	DATE	REVISION
04/10/2024					
DESIGNER: DCC	DRAWN BY: DCC	SCALE DATE: 04/10/2024	COMP FILE NO: F13622.2	START PROJECT NO: 61437C	
REVIEWED BY: JAD					
<p>PROFESSIONAL REGISTRATION LICENSE REGISTRATION NO. JEFFREY DEAL, PE TBD - Mech License</p>					
<p>WILLIAM J. "RISH" PARK MECHANICAL FIRST FLOOR PLAN</p>					
<p>BEACH SIDE DAY USE RESTROOM</p>					
<p>M101</p>					

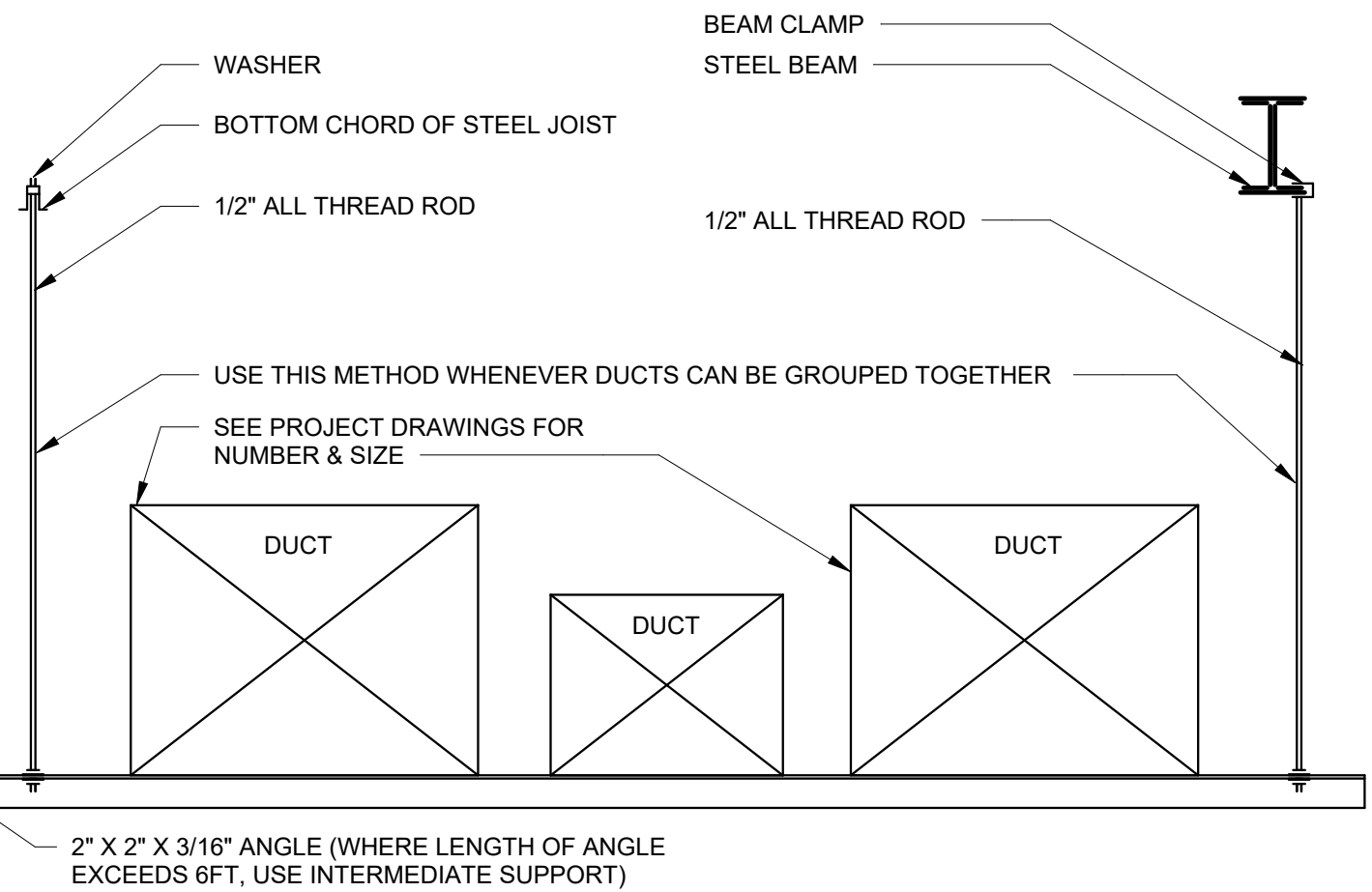
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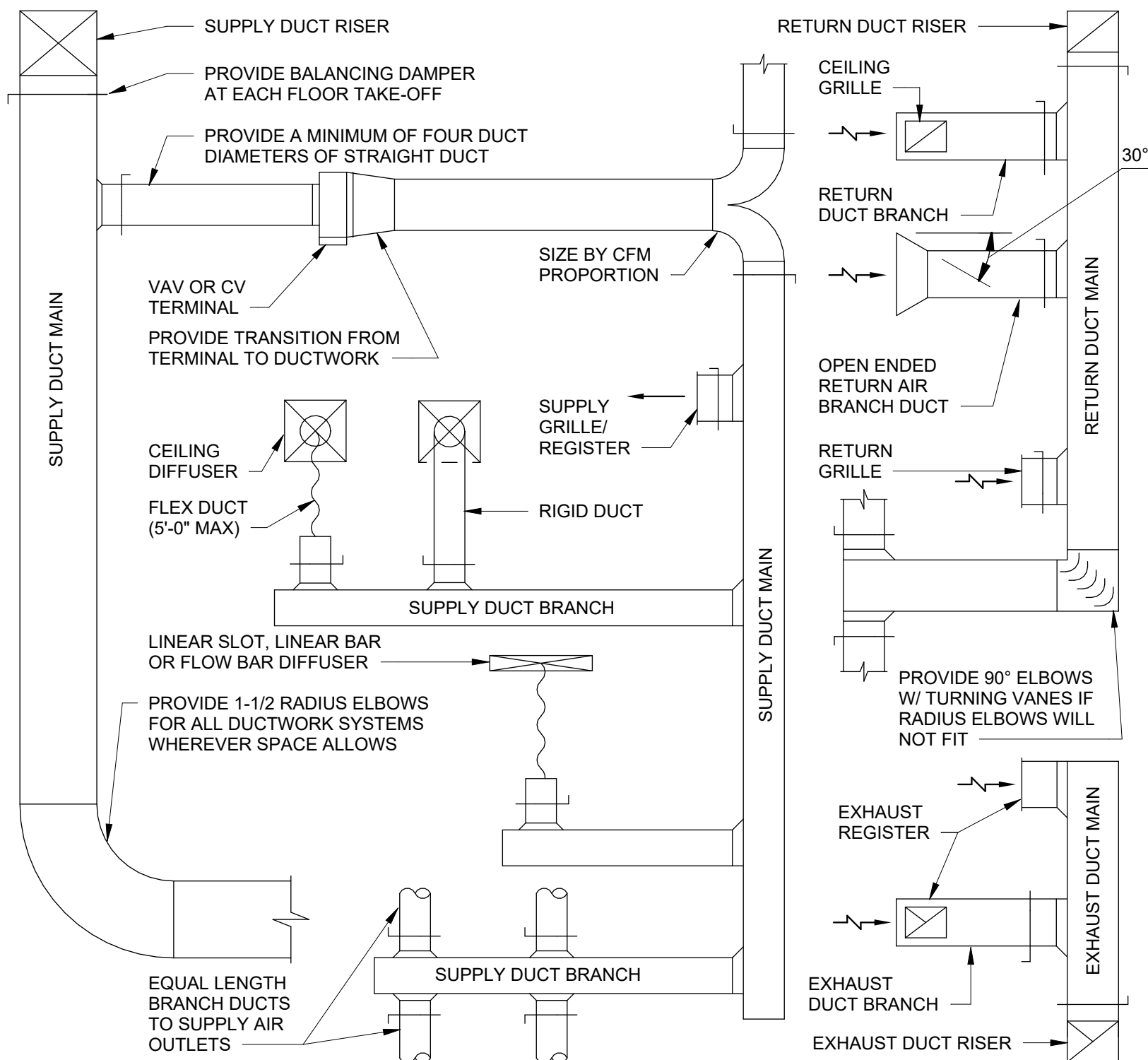
- NOTES:
- SEAL ENDS OF THE FLEXIBLE DUCT WITH TAPE AND SECURE WITH ZIP TIES. THE INSTALLATION OF THE FLEXIBLE DUCT SHALL BE SECURED IN PLACE WITH ZIP TIES. SEAL JOINTS BETWEEN THE DUCT COLLAR AND THE MAIN DUCT.
 - DAMPER QUADRANT SHALL PENETRATE THE INSULATION AND SUFFICIENT SPACE SHALL BE ALLOWED FOR OPERATION.
 - FLEXIBLE DUCT CAN BE LOCATED IN EITHER THE VERTICAL (LOCATION #1) DUCT RUN LOCATION OR THE HORIZONTAL (LOCATION #2) DUCT RUN LOCATION.

1 DUCT RUNOUT DETAIL
NOT TO SCALE



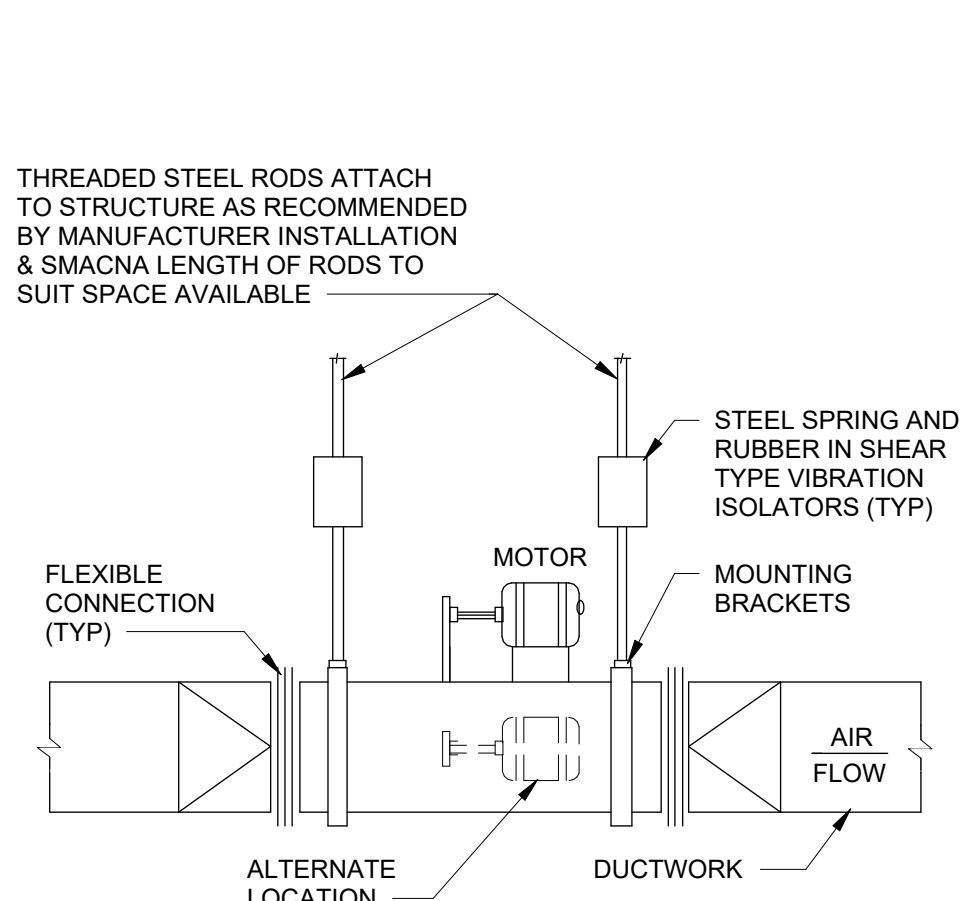
- NOTE:
- DUCTS SHALL BE SUPPORTED AT NOT LESS THAN 10FT O.C.

3 MULTIPLE DUCT SUPPORT DETAIL
NOT TO SCALE

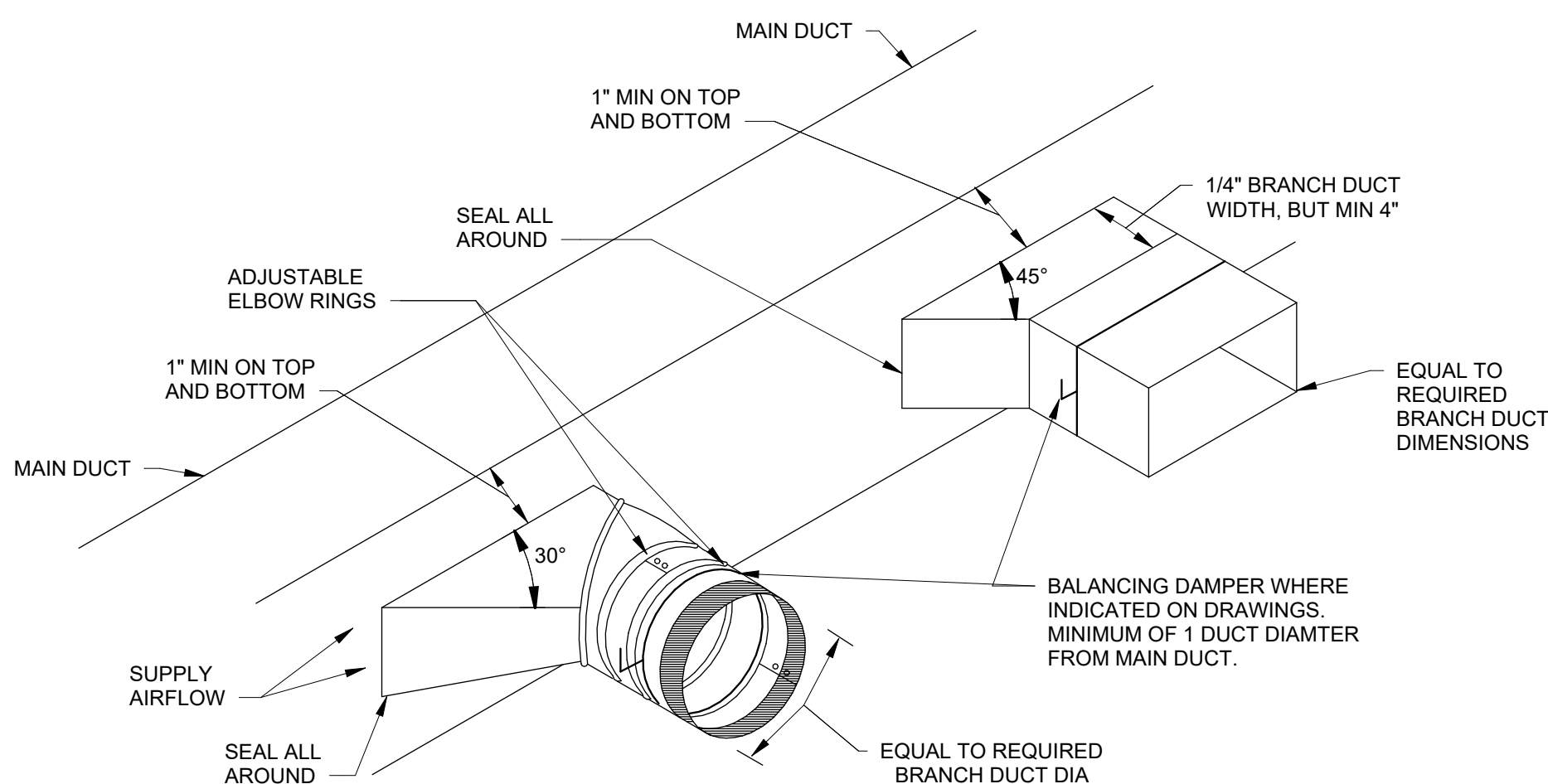


- NOTES:
- REFER TO HVAC FLOOR PLANS FOR DUCT SIZES.
 - REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES.
 - PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET, RETURN INLET, AND EXHAUST INLET.
 - ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED.
 - FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS.
 - PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT.
 - INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST.

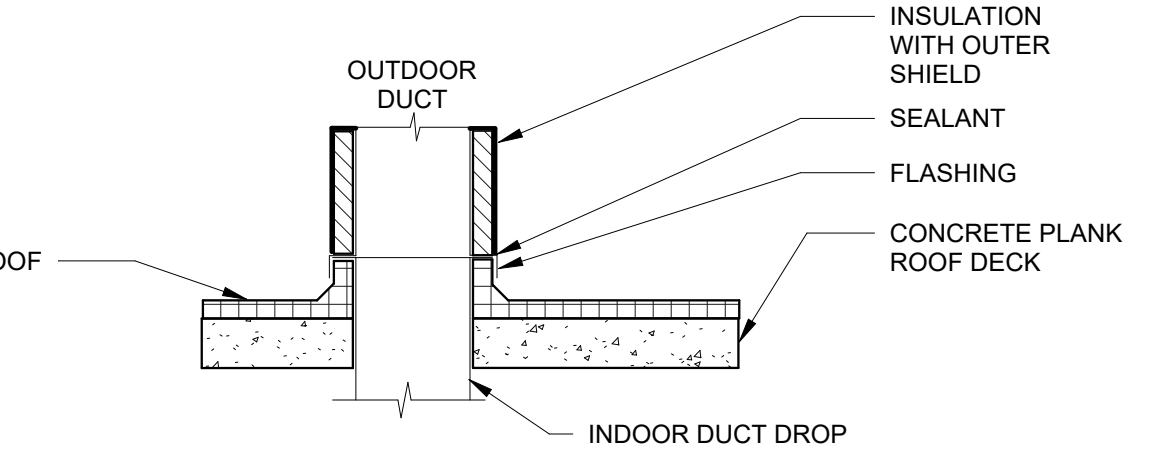
5 DUCTWORK INSTALLATION DIAGRAM
NOT TO SCALE



2 EXHAUST FAN SUPPORT DETAIL - INLINE
NOT TO SCALE

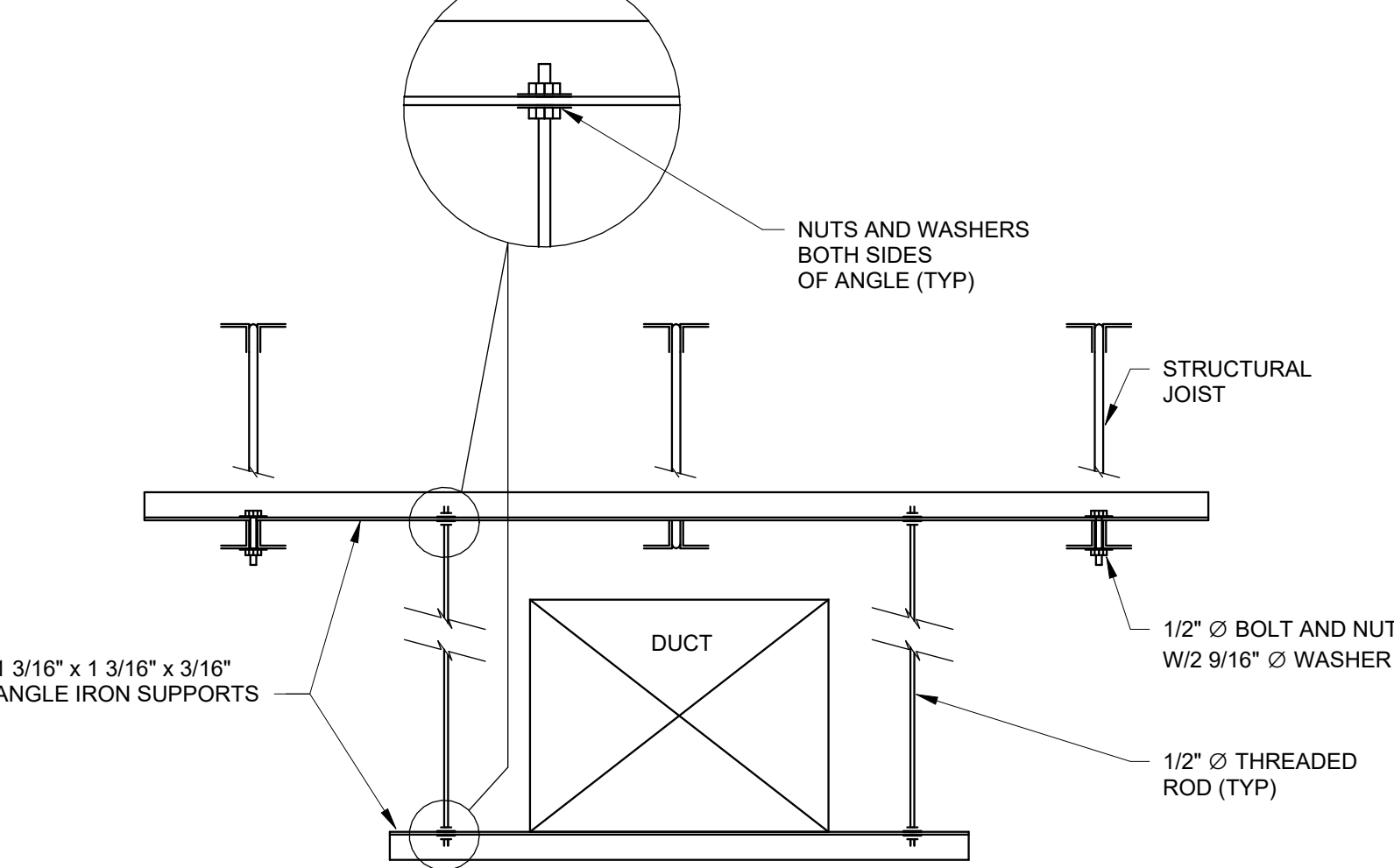


4 DUCTWORK BRANCH TAKEOFF FITTING DETAIL
NOT TO SCALE



- NOTES:
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CURB, FLASHING, AND ROOFTOP INSULATION.
 - REFER TO STRUCTURAL DRAWINGS FOR PLANK ROOF REINFORCEMENTS AT ROOF OPENINGS.

6 ROOF DUCTWORK PENETRATION DETAIL
NOT TO SCALE



7 DUCT SUPPORT DETAIL
NOT TO SCALE

FAN SCHEDULE														
MARK	AREA SERVED	FAN TYPE	CFM	ESP (IN. W.G.)	DRIVE TYPE	RPM	MOTOR			dBA	OPERATING WEIGHT (lb)	BASIS OF DESIGN	REMARKS	
							HP	MCA	MOP					V/PH
EF-1	RESTROOM	EXHAUST	450	0.5	DIRECT	1286	1	16.2	25	115/1	61	48	GREENHECK AX-41-31-0317-VG	1-2

REMARKS:

- PROVIDE FAN WITH SPEED CONTROLLER, BACKDRAFT DAMPER, SINGLE POINT WIRING, AND ELECTRICAL DISCONNECT.
- FAN TO OPERATE CONTINUOUSLY.

DIFFUSER SCHEDULE							
TAG	SYSTEM	TYPE	DUCT CONNECTION SIZE	NOMINAL FACE SIZE	BASIS OF DESIGN	MAXIMUM DIFFUSER NO.	REMARKS
EG-01	SUPPLY	LOUVERED FACE 4-WAY	SEE PLANS	12"x12"	PRICE 807B	30	1,3,4

REMARKS:

- PROVIDE ALUMINUM CONSTRUCTION FOR WET AREAS
- PROVIDE ROUND NECK FOR SUPPLY DIFFUSERS
- COORDINATE FRAME AND BORDER WITH CEILING
- COORDINATE FINISH WITH ARCHITECT
- FILTER FACED GRILLE WITH 1" PLEATED FILTER
- PROVIDE BLANK OFF SECTION OF 1 WAY, 2 WAY, 3 WAY DIFFUSERS WHERE TERMINAL IS CLOSE TO WALL

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
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DESIGNER: DCC
DRAWN BY: DCC
REVIEWED BY: JAD
CONSULTANT: **gplh** Environmental Landscape Architects
www.gplh.com

PROFESSIONAL REGISTRATION LICENSE REGISTRATION NO. JEFFREY DEAL, PE
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PROJECT TITLE: WILLIAM J. "RISH" PARK
MECHANICAL SCHEDULE
BEACH SIDE DAY USE RESTROOM

SHEET NO. M501