



*Thomas R. Cook*

### GENERAL MECHANICAL NOTES

- THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COSTS FOR LOCATING, REMOVING, REPLACING OR RELOCATING THESE UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
- MECHANICAL TRADE SHALL COORDINATE ROOF AND WALL FLASHING AND EXACT PENETRATION LOCATIONS WITH GENERAL TRADE.
- COORDINATE LOCATION OF GRILLES AND DIFFUSERS WITH LIGHTS, EQUIPMENT, CEILING GRID, AND ARCHITECTURAL REFLECTED CEILING PLANS, ETC.
- DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK. PIPING AND SYSTEMS SHALL FOLLOW ARRANGEMENT AS MUCH AS POSSIBLE, HOWEVER, ACTUAL FIELD CONDITIONS SHALL DICTATE. PROVIDE NECESSARY MODIFICATIONS TO MEET FIELD CONDITIONS AND AVOID CONFLICT WITH OTHER TRADES. IF RESOLUTION CANNOT BE REACHED WITHOUT COMPROMISING THE DESIGN, THESE CONFLICTS SHALL BE PRESENTED TO THE ENGINEER/ARCHITECT FOR RESOLUTION. IN CONFLICT AREAS, COMPLETE ONLY WORK NOT AFFECTED BY THE CONFLICT PRIOR TO RESOLUTION.
- THE FLOOR PLANS DO NOT SHOW ALL VALVES, FITTINGS, APPURTENANCES, DUCT TRANSITIONS, ACCESS PANELS, ELEVATION CHANGES, AND VARIOUS OTHER ITEMS CALLED FOR BY DETAILS AND SPECIFICATIONS. REFER TO DETAILS AND SPECIFICATIONS AND WHERE REQUIRED, THESE ITEMS SHALL BE PROVIDED WITHOUT ADDITIONAL COST FOR A COMPLETE AND OPERATING SYSTEM.
- COORDINATE ROUTING OF PIPING, DUCTWORK, ETC. PRIOR TO STARTING INSTALLATION. MECHANICAL AND ELECTRICAL TRADES SHALL REVIEW AVAILABLE SPACE AND COORDINATE ALL SYSTEM ROUTING PRIOR TO INSTALLATION. FIELD VERIFY ALL FRAMING, CEILING HEIGHTS, ETC. BEFORE ORDERING OR FABRICATING SYSTEMS.
- CONNECTIONS TO EQUIPMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS.
- ALL HANGER SYSTEMS FOR PIPING AND EQUIPMENT SHALL BE SECURED TO BUILDING STRUCTURAL SYSTEM.
- ALL WORK AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ORDINANCES AND REGULATIONS HAVING JURISDICTION.
- PROVIDE SHUTOFF VALVES ON SUPPLY PIPING TO EACH FIXTURE AND AT ALL BRANCH LINES OFF MAIN. VALVES SHALL BE ACCESSIBLE, WHERE VALVES MUST BE CONCEALED IN BUILDING CONSTRUCTION, PROVIDE ACCESS PANELS. REFER TO ARCHITECTURAL DRAWINGS FOR ACCESS PANELS PROVIDED BY GENERAL TRADE AND PROVIDE ADDITIONAL AS REQUIRED. TYPICAL FOR ALL GAS AND WATER PIPING.
- PROVIDE SHOCK ABSORBERS FOR EACH FLUSH VALVE WATER CLOSET. INSTALL ON COLD WATER BEFORE EACH SINGLE UNIT.
- ALL VENTS EXTENDING THROUGH ROOF SHALL TERMINATE AT LEAST (20) TWENTY FEET FROM ANY EXHAUSTER, GRAVITY RELIEF HOOD, OR OUTSIDE AIR INTAKE. IF THIS IS IMPOSSIBLE, VENTS SHALL BE EXTENDED AT LEAST THREE (3) FEET ABOVE LIP OF GRAVITY RELIEF HOOD AND/OR EXHAUSTER.
- MAINTAIN SAFE AND ORDERLY JOB CONDITIONS. PROTECT ALL AREAS. PROVIDE FIRE EXTINGUISHERS IN THE WORK AREA. PROVIDE LIGHTING AND SIGNAGE AS REQUIRED.
- COORDINATE FINISHED ELEVATION OF FLOOR DRAINS WITH ARCHITECT FOR SLOPE OF FLOOR.

### EQUIPMENT SCHEDULE

F 1	<b>FURNACE - ONE (1) TWINNED UNIT REQUIRED</b> TWINNED FURNACE, NATURAL GAS FIRED, UP-FLOW TYPE, CONDENSING FURNACE, 2280 TOTAL CFM @ 0.6" E.S.P. HEATING: 180 MBH TOTAL INPUT, 148 MBH TOTAL OUTPUT. TOTAL COOLING: 6 TONS NOMINAL. TWO (2) 1/2 HP FAN MOTORS. 120V/1PH/60HZ. COMPLETE WITH TWINNING KIT, DIRECT EXPANSION COOLING COIL WITH CASING, INTEGRAL MOTOR OVERLOAD PROTECTION, CONTROL RELAYS AND PROGRAMMABLE THERMOSTAT W/HTG-CLG AND FAN ON-AUTO SWITCH. CARRIER SERIES 58MCA OR EQUAL. FURNISH COMPLETE WITH DUCT SMOKE DETECTOR AND REMOTE RESET.
CU 1	<b>CONDENSING UNIT - ONE (1) REQUIRED</b> SPLIT SYSTEM, AIR-COOLED CONDENSING UNIT WITH REMOTE DX COIL LOCATED AT F-1, NOMINAL 6 TONS @ 95 DEGREES OUTDOOR AMBIENT TEMPERATURE. PROVIDE UNIT COMPLETE WITH START CAPACITOR, CONTROL RELAYS, LOW AMBIENT LOCK-OUT CONTROL, AND SPRING ISOLATORS. POWER SUPPLY: 208 VOLT/1 PHASE/60 HZ. 13.0 SEER MINIMUM. CARRIER SERIES 38AR OR EQUAL TO MATCH FURNACE F-1.
F 2	<b>FURNACE - TWO (2) REQUIRED</b> NATURAL GAS FIRED, UP-FLOW TYPE, CONDENSING FURNACE, 950 CFM @ 0.5" E.S.P. HEATING: 80 MBH INPUT, 58 MBH OUTPUT. TOTAL COOLING: 2.5 TONS NOMINAL. 1/3 HP FAN MOTOR. 120V/1PH/60HZ. COMPLETE WITH DIRECT EXPANSION COOLING COIL WITH CASING, INTEGRAL MOTOR OVERLOAD PROTECTION, CONTROL RELAYS AND PROGRAMMABLE THERMOSTAT W/HTG-CLG AND FAN ON-AUTO SWITCH. CARRIER SERIES 58MCA OR EQUAL.
CU 2	<b>CONDENSING UNIT - TWO (2) REQUIRED</b> SPLIT SYSTEM, AIR-COOLED CONDENSING UNIT WITH REMOTE DX COIL LOCATED AT F-2 OR F-3, NOMINAL 2.5 TONS @ 95 DEGREES OUTDOOR AMBIENT TEMPERATURE. PROVIDE UNIT COMPLETE WITH START CAPACITOR, CONTROL RELAYS, LOW AMBIENT LOCK-OUT CONTROL, AND SPRING ISOLATORS. POWER SUPPLY: 208 VOLT/1 PHASE/60 HZ. 13.0 SEER MINIMUM. CARRIER SERIES 38TRA OR EQUAL TO MATCH FURNACE F-2 OR F-3.
EF 1	<b>EXHAUST FAN - ONE (1) REQUIRED</b> CEILING MOUNTED, 250 CFM @ 0.5 E.S.P., 1205 RPM, MOTOR: 172 WATTS, 120V/1PH/60HZ. DIRECT DRIVE. LOREN COOK CO. MODEL GC-520 OR EQUAL. COMPLETE WITH BACKDRAFT DAMPER AND CEILING GRILLE.
EF 2	<b>EXHAUST FAN - THREE (3) REQUIRED</b> CEILING MOUNTED, 100 CFM @ 0.5 E.S.P., 1100 RPM, MOTOR: 98 WATTS, 120V/1PH/60HZ. DIRECT DRIVE. LOREN COOK CO. MODEL GC-144 OR EQUAL. COMPLETE WITH BACKDRAFT DAMPER AND CEILING GRILLE.
EF 5	<b>EXHAUST FAN - ONE (1) REQUIRED</b> CEILING MOUNTED, 150 CFM @ 0.5 E.S.P., 1300 RPM, MOTOR: 145 WATTS, 120V/1PH/60HZ. DIRECT DRIVE. LOREN COOK CO. MODEL GC-164 OR EQUAL. COMPLETE WITH BACKDRAFT DAMPER THERMOSTAT AND CEILING GRILLE. EC TO MOUNT AND WIRE THERMOSTAT
CH 1	<b>CABINET HEATER - ONE (1) REQUIRED</b> ELECTRIC CEILING RECESSED MOUNTED, 396 CFM, 17.1 MBH, 5 KW, 24.0 AMPS, 208V/1PH/60HZ. Q-MARK MODEL NO. CDF-558. COMPLETE WITH REMOTE THERMOSTAT.
FR 1	<b>FINNED RADIATION - FIVE (5) REQUIRED</b> ELECTRIC HYDRONIC TYPE, 5'-10" LONG ENCLOSURE, 5120 BTU, 1500 WATTS, 12.5 AMPS, 120V/1PH/60HZ. Q-MARK MODEL NO. HBB-1500. COMPLETE WITH WALL MOUNTED THERMOSTAT.
FR 2	<b>FINNED RADIATION - FOUR (4) REQUIRED</b> ELECTRIC HYDRONIC TYPE, 4'-10" LONG ENCLOSURE, 4265 BTU, 1250 WATTS, 10.4 AMPS, 120V/1PH/60HZ. Q-MARK MODEL NO. HBB-1250. COMPLETE WITH WALL MOUNTED THERMOSTAT.
FR 8	<b>FINNED RADIATION - TWO (2) REQUIRED</b> ELECTRIC HYDRONIC TYPE, 2'-10" LONG ENCLOSURE, 2560 BTU, 750 WATTS, 6.3 AMPS, 120V/1PH/60HZ. Q-MARK MODEL NO. HBB-750. COMPLETE WITH WALL MOUNTED THERMOSTAT.
H 1	<b>HUMIDIFICATION UNIT - ONE (1) REQUIRED - (ALTERNATE)</b> GAS TO STEAM HUMIDIFICATION UNIT, 33 GAL. TANK, 100 MBH INPUT, MAX. 10 GPH, MAX. STEAM CAPACITY: 30 LBS/HR. 120V/1PH/60HZ, 1.8 FLA. DRISTEEM MODEL GTS-100. COMPLETE WITH ULTRA-SORB DISPERSION TUBES TO BE MOUNTED IN SUPPLY AIR DUCT.
WH 1	<b>WATER HEATER - ONE (1) REQUIRED</b> GAS FIRED, DIRECT VENT/SEALED COMBUSTION, 40 GAL., 38 MBH INPUT, 41 GPH @ 90 DEG. F. RISE. LOCHINVAR MODEL NO. BFN0406.
ET 1	<b>HOT WATER EXPANSION TANK</b> IN-LINE TYPE, 4.55 GALLON NOMINAL CAPACITY. 14 3/4" LONG X 11 3/8" DIA. STATE MODEL NO. ETC-SX OR EQUAL.
WS 1	<b>WATER SOFTENER</b> 20,000 GRAIN CAPACITY, DEMAND INITIATED REGENERATION, SINGLE TANK DESIGN. WHIRLPOOL WHES20 OR EQUAL.

### PLUMBING FIXTURE SCHEDULE

MARK NO.	DESCRIPTION
WC-1	<b>WATER CLOSET - THREE (3) REQUIRED (ADA COMPLIANT)</b> VITREOUS CHINA, FLOOR MOUNTED, ADA COMPLIANT 1.6 GPF, SIPHON-JET TYPE, ELONGATED BOWL WITH 1-1/2" TOP SPUD AND 2-1/4" PASSAGEWAY. AMERICAN STANDARD "MADERA" 2305.100 OR KOHLER "HIGHCREST" NO. K-4302. CLOSET SEAT WHITE, SOLID PLASTIC, OPEN FRONT, EXTENDED BACK SEAT, LESS COVER, WITH CHECK HINGE. FLUSH VALVE: BATTERY POWERED, SENSOR OPERATED, CHROME PLATED COVER WITH FLUSH OVER-RIDE BUTTON. SLOAN "OPTIMA PLUS" (ROYAL) ELECTRONIC FLUSHOMETER NO. 8111-LH-MC OR ZURN NO. ZR-6000AV-W51.
LAV-1	<b>LAVATORY - TWO (2) REQUIRED (ADA COMPLIANT)</b> REFER TO ARCHITECTURAL PLANS FOR SINK TYPE. FITTING: SLOAN OPTIMA PLUS MODEL NO. EBF-85. COMPLETE WITH GRID DRAIN AND TAILPIECE. PROVIDE INSULATION KIT ON EXPOSED SUPPLY AND WASTE PIPING. TRUEBRO HANDI LAV-GUARD, PLUMBEREX PRO-EXTREME OR APPROVED EQUAL.
LAV-2	<b>LAVATORY - ONE (1) REQUIRED (ADA COMPLIANT)</b> VITREOUS CHINA OVAL LAVATORY, SELF RIMMING, ADA COMPLIANT, FAUCETS ON 4" CENTERS, FRONT OVERFLOW, COMPLETE WITH TWO (2) CLAMP ASSEMBLIES AND TUBE SEALER. AMERICAN STANDARD, STANDARD COLLECTION 0293.004. FIXTURE SHALL BE COMPLETE WITH 3/8" LOOSE KEY OPERATED STOPS. 1-1/4" CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WALL ESCUTCHEONS. FITTING: SLOAN OPTIMA PLUS MODEL NO. EBF-85. COMPLETE WITH GRID DRAIN AND TAILPIECE. PROVIDE INSULATION KIT ON EXPOSED SUPPLY AND WASTE PIPING. TRUEBRO HANDI LAV-GUARD, PLUMBEREX PRO-EXTREME OR APPROVED EQUAL. MECHANICAL TRADE SHALL PROVIDE A CUT-OUT TEMPLATE TO GENERAL TRADE IN AMPLE TIME TO MAINTAIN CONSTRUCTION SCHEDULE. GENERAL CONTRACTOR SHALL CUT OPENING IN CABINET TOPS FOR LAVATORY; MECHANICAL CONTRACTOR SHALL COORDINATE AS REQUIRED.
FD-1	<b>FLOOR DRAIN - THREE (3) REQUIRED</b> DURA-COATED CAST IRON BODY, DEEP SEAL INTEGRAL TRAP, SEEPAGE PAN AND FLOOR CLEANOUT, SIX INCH (6") ADJUSTABLE SQUARE "TYPE B" STRAINER. FINISH: NIKALOY. ZURN ZN-456, WATTS, JOSAM, J.R. SMITH OR WADE EQUAL. COMPLETE WITH DOUBLE DRAINAGE FLANGE AND WEEP HOLES.
FD-2	<b>FLOOR DRAIN - THREE (3) REQUIRED</b> DURA-COATED CAST IRON, BOTTOM OUTLET, SEEPAGE PAN, 9" ROUND TOP AND ANTI-TILT GRATE, REMOVABLE PERFORATED SEDIMENT BUCKET AND CAST IRON DEEP SEAL TRAP. FINISH: LACQUER. ZURN 550-Y.
FD-3	<b>FLOOR DRAIN - ONE (1) REQUIRED</b> CAST IRON BODY, ACID RESISTING PORCELAIN ENAMEL INTERIOR, FOUR INCH (4") BOTTOM OUTLET, 12"x6", ANTI-SPLASH DOME STRAINER AND CAST IRON DEEP SEAL TRAP, ZURN Z-1940-KC. FINISH: LACQUER. COMPLETE WITH ZURN Z-1012 FLOOR CLEANOUT.
FD-4	<b>FLOOR DRAIN - ONE (1) REQUIRED</b> DURA-COATED CAST IRON BODY, DEEP SEAL INTEGRAL TRAP, SEEPAGE PAN AND FLOOR CLEANOUT. FINISH: NIKALOY. ZURN ZN-456, WATTS, JOSAM, J.R. SMITH OR WADE EQUAL. COMPLETE WITH DOUBLE DRAINAGE FLANGE AND WEEP HOLES. ROUND ADJUSTABLE STRAINER TOP WITH COMBINATION FUNNEL/GRATE. FINISH: POLISHED BRONZE NICKEL TOP. ZURN Z400, WATTS, JOSAM, J.R. SMITH OR WADE EQUAL.
MB-1	<b>MOP BASIN - ONE (1) REQUIRED</b> CORNER FLOOR-MOUNTED, MOLDED STONE, 24"x24"x10". FIAT NO. MSB-2424. TRIM: SERVICE SINK FITTINGS WITH VACUUM BREAKER, WALL SUPPORT PAIL HOOK AND 3/4" HOSE THREAD END. UNITS SHALL BE COMPLETE WITH STAINLESS STEEL WALL GUARDS, CAST BRASS DRAIN BODY, LOCKNUT, NEOPRENE GASKETS, COMBINATION DOME STRAINER AND LINT BASKET, 3/8" HEAVY DUTY RUBBER HOSE WITH 3/4" THREAD COUPLING ONE (1) END, HOSE BRACKET, MOP HANGER BRACKET, VINYL BUMPER GUARD AND TUBE OF SILICONE SEALANT. APPLY SEALANT AT ALL EDGES WHERE SINK MEETS WALL. TRAP: 3" DEEP SEAL, CAST IRON. SET WITH SUPPLIES 32" ABOVE FLOOR. FITTINGS: WALL-MOUNTED COMBINATION FIXTURE WITH INTEGRAL STOPS, WALL BRACE, PAIL HOOK, 3/4" HOSE THREAD END AND APPROVED VACUUM BREAKER; ZURN "AQUA SPEC" NO. Z-842M1, CHICAGO FAUCET NO. 897, KOHLER "KNOXFORD" NO. K-8904 OR T&S BRASS EQUAL.
EW-1	<b>ELECTRIC WATER COOLER - ONE (1) REQUIRED</b> WALL MOUNTED, STAINLESS STEEL TOP AND CABINET. AIR-COOLED WITH CAPACITY TO COOL A MINIMUM OF 7.8 GPH TO 50 DEG. WITH 80 DEG. INLET AND 90 DEG. AMBIENT. TRIM: CHROME-PLATED, ANGLE STREAM BUBLER, TOUCH PADS, LOCATED ON FRONT AND SIDE OF CABINET, FLOW REGULATOR, BUILT-IN STRAINER, 1 1/4" BRASS TRAP, 3/8" ANGLE STOP. 120 VOLT, 1 PHASE, 60 HERTZ POWER SUPPLY. OASIS NO. PBAC. FOR STUD WALLS PROVIDE CARRIER WITH UPRIGHTS, BLOCK BASES AND HANGER PLATE. MOUNTING HEIGHT 40" FLOOR TO SPOUT-MAXIMUM.
EW-2	<b>ELECTRIC WATER COOLER - ONE (1) REQUIRED (ADA COMPLIANT)</b> SAME AS EW-1, EXCEPT MOUNTING HEIGHT 36" FLOOR TO SPOUT-MAXIMUM.
SK-1	<b>SINK - TWO (2) REQUIRED</b> STAINLESS STEEL, TYPE 304, 18 GAUGE, SINGLE COMPARTMENT LEDGE BACK ELKAY #LR-2522 OR JUST #SL-2225-A-GR. SINK SHALL CONTAIN THREE (3) FAUCET HOLES. FITTINGS: TWO (2) LEVEL MIXING FAUCET, 8" CENTERS, DECK MOUNT, GOOSENECK SWING SPOUT WITH AERATOR. DELTA #2176-LHP-H25.

### PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	CW	HW	WASTE	VENT	TRAP
WC	WATER CLOSET (FLUSH VALVE)	1 1/4"	-	4"	2"	INT.
LAV	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"
EW	ELECTRIC WATER COOLER	1/2"	-	1 1/2"	1 1/2"	1 1/2"
MB	MOP BASIN	3/4"	3/4"	3"	2"	3"
SK	SINK	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"

### GRILLE & DIFFUSER SCHEDULE

TYPE	DESCRIPTION
A	SUPPLY AIR DIFFUSER - CEILING MOUNTED, TITUS MODEL "TDC" OR EQUAL. BORDER TYPE 1. ROUND NECK, FINISH: PAINT IN FIELD, COLOR TO BE SELECTED BY ARCHITECT. COMPLETE WITH VOLUME CONTROL DAMPER.
B	RETURN AIR GRILLE - TITUS MODEL "355RL" OR EQUAL. FINISH: PAINT IN FIELD, COLOR TO BE SELECTED BY ARCHITECT. COMPLETE WITH VOLUME CONTROL DAMPER.
C	SUPPLY AIR GRILLE - WALL MOUNTED, TITUS MODEL "300RL" OR EQUAL. ALL STEEL CONSTRUCTION. FINISH: PAINT IN FIELD, COLOR TO BE SELECTED BY ARCHITECT. COMPLETE WITH VOLUME CONTROL DAMPER.
D	SUPPLY AIR DIFFUSER - LINEAR SLOT TYPE, TITUS MODEL "ML-38" OR EQUAL WITH END BORDERS (TYPE "X"). COMPLETE WITH VOLUME CONTROL DAMPER. THREE (3) - 3/4" SLOTS AT 2'-0" LONG. COORDINATE EXACT MOUNTING LOCATIONS WITH ENGINEER AND ARCHITECT IN FIELD. PAINT IN FIELD, COLOR TO BE SELECTED BY ARCHITECT
E	LINEAR BAR GRILLE - FLOOR MOUNTED, TITUS MODEL CT-480 OR EQUAL. HEAVY DUTY MOUNTING FRAME, 1/8" THICK FIXED BARS AT 15' DEFLECTION AND 1/4" SPACING WIDTH. CLEAR ANODIZED FINISH. MOUNT IN RAISED FLOOR OF CHILDRENS AREA; ABOVE FINNED RADIATION, APPROX. 3" FROM EXTERIOR WALL. COORDINATE WITH ARCHITECTURAL PLANS.

### MECHANICAL LEGEND

--- AFF	ABOVE FINISH FLOOR
--- CO	CLEAN OUT
--- CW	COLD WATER
--- EA	EXHAUST AIR
--- EWC	ELECTRIC WATER COOLER
--- FD	FLOOR DRAIN
--- GC	GENERAL CONTRACTOR/TRADE
--- HW	HOT WATER
--- LAV	LAVATORY
--- MC	MECHANICAL CONTRACTOR/TRADE
--- OA	OUTSIDE AIR
--- RA	RETURN AIR
--- SK	SINK
--- SA	SUPPLY AIR
--- WC	WATER CLOSET
--- SFT	COLD WATER (HARD)
--- SFT	COLD WATER (SOFT)
--- SFT	HOT WATER (DOMESTIC)
--- SFT	HOT WATER RETURN (DOMESTIC)
--- RL	REFRIGERANT LIQUID LINE
--- RS	REFRIGERANT SUCTION LINE
--- S	SANITARY VENT
--- S	SANITARY SEWER
--- D	EQUIPMENT DRAIN LINES
--- G	NATURAL GAS
--- S	SHUT-OFF VALVE
--- S	GAS COCK
--- U	UNION
--- S	BACKFLOW PREVENTER
--- S	SILCOCK (SINGLE)
--- S	FLOOR DRAIN
--- H	HUMIDISTAT/HUMIDITY SENSOR
--- T	THERMOSTAT/TEMPERATURE SENSOR
--- S	DUCT VOLUME DAMPER (MANUAL)
--- A	AIR INLET OR OUTLET LEGEND
--- B	A - DIFFUSER OR REGISTER SIZE
--- C	B - AIR PATTERN
--- D	C - CFM
--- E	D - TYPE (SEE GRILLE & DIFFUSER SCHEDULE)

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