

MECHANICAL SPECIFICATIONS

HVAC SPECIFICATIONS

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS APPLY TO THIS SECTION.

ALL MECHANICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE APPLICABLE MECHANICAL CODE WITH LOCAL AMENDMENTS.

HVAC WORK SHALL BE AS INDICATED ON THE PLANS AND AS HEREIN SPECIFIED. THE WORK SHALL CONSIST OF PROVIDING COMPLETE OPERATIONAL HVAC SYSTEMS AS INDICATED ON THE DRAWINGS. THE SYSTEM SHALL BE TESTED AND BALANCED. CAPACITIES SHALL BE AS SHOWN ON THE DRAWINGS. ADJUSTMENTS AS REQUIRED SHALL BE MADE BY THE CONTRACTOR TO INSTALL THE WORK WITHIN THE INTENT OF THE DRAWINGS AND SPECIFICATIONS AND TO PROVIDE AN ACCEPTABLE SYSTEM IN ACCORDANCE WITH STATE CODES, LOCAL CODES, ASHRAE, AND SMACNA RECOMMENDATIONS.

WHENEVER A MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT IS IDENTIFIED ON THE DRAWINGS BY REFERENCE TO MANUFACTURERS OR VENDORS NAMES, TRADE NAMES, CATALOG NUMBERS, OR THE LIKE, IT IS SO IDENTIFIED FOR THE PURPOSE OF ESTABLISHING A STANDARD, AND ANY MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT OF OTHER MANUFACTURER'S OR VENDORS WHICH WILL PERFORM ADEQUATELY THE DUTIES IMPOSED BY THE GENERAL DESIGN WILL BE CONSIDERED EQUALLY ACCEPTABLE PROVIDED THE MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT SO PROPOSED IS OF EQUAL SUBSTANCE, APPEARANCE, AND FUNCTION.

DUCTWORK:

DUCTWORK SHALL BE GALVANIZED SHEET METAL FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA RECOMMENDATIONS. ALL SQUARE ELBOWS SHALL INCLUDE SINGLE THICKNESS TURNING VANES. FIBERGLASS DUCTBOARD SHALL NOT BE USED AND WILL NOT BE ACCEPTED.

DUCTWORK SHALL BE INSULATED AS FOLLOWS:

EXTERIOR RECTANGULAR DUCTWORK

THE FIRST 4' OF INTERIOR SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY LINED (SEE CERTAINTED-150 2" LINER WITH R-VALVE OF 8") TO 12" MINIMUM INSIDE.

INTERIOR SHOW ROOM AREA SHALL BE PROVIDED WITH "L" LINER. DUCTWORK SHALL BE UNCONDITIONED AND SHALL BE PROVIDED WITH A MINIMUM OF 6" EQUAL TO UNJOINED MOBILE ACUSTIC-K27.

ALL CONCEALED DUCTWORK (RECTANGULAR OR SPIRAL)

ALL CONCEALED DUCTWORK (RECTANGULAR OR SPIRAL) RUN ABOVE THE CEILING SHALL BE INTERNALLY LINED (SEE CERTAINTED-150 2" LINER WITH R-VALVE OF 8").

INTERIOR DUCTWORK EXPOSED IN UNCONDITIONED AREA:

ALL INTERIOR SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY LINED (SEE CERTAINTED-150 2" LINER WITH R-VALVE OF 8").

INTERIOR DUCTWORK EXPOSED IN CONDITIONED AREA:

THE FIRST 4' OF INTERIOR SUPPLY AND RETURN DUCTWORK EXPOSED IN THE CONDITIONED AREA SHALL BE PROVIDED WITH 1" LINER

INTERNAL INSULATION SHALL BE MINIMUM 1" THICK 1-1/2" PCF FIBERGLASS, NEOPRENE COATED, AND ADHERED WITH AN APPROVED ADHESIVE WITH 100% COVERAGE AND STICK CLIPS ON 12" CENTERS. INTERNALLY LINED INSULATION SHALL MEET BACTERIOLOGICAL STANDARD ASTM C 665. SHEET METAL SIZES SHALL BE INCREASED ACCORDINGLY TO ALLOW FOR DUCT LINER.

ALL TAKE-OFF FITTINGS SHALL HAVE EXTRACTORS AND DAMPERS. STAINLESS STEEL CLAMPS SHALL BE USED FOR ALL FLEXIBLE CONNECTIONS. FLEXIBLE DUCTWORK SHALL BE EXTERNALLY INSULATED AND CONFORM TO UL 181.

EQUIPMENT:

ALL AIR HANDLING EQUIPMENT, DIFFUSERS, GRILLES, REGISTERS, FANS, REFRIGERATION UNITS AND CONDENSING COILS SHALL BE PROVIDED AS REQUIRED AND DESCRIBED ON THE DRAWINGS AND IN COMPLIANCE WITH LOCAL ENERGY CODES. ALL CONTROL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS. ALL WIRING SHALL BE INSULATED POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UP TO AND INCLUDING FINAL CONNECTION. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL PIPING AND MECHANICAL CONNECTIONS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INDICATING TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL MOUNT ALL DEVICES, ETC., AND THE ELECTRICAL CONTRACTOR SHALL WIRE THROUGH THEM AS REQUIRED. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). THE MECHANICAL CONTRACTOR SHALL PREPARE TYPE OF SUPPLY BY THE REFRIGERATION EQUIPMENT MANUFACTURER, PROPERLY SIZED AND INSULATED OR FIELD FABRICATED AT THE CONTRACTOR'S OPTION. ALL PIPING SHALL BE 1/2" MINIMUM SIZE, 60 PSI RATED, BLACK STEEL PIPE, SCH 40, PER 955 SOLDER, INSULATED WITH "H" ARMAFLEX AND WEATHERPROOF. PIPING SHALL BE ARRANGED AND PIPED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL PIPING SHALL BE SUPPORTED BY HANGERS OR DRYERS WITH BY-PASS WHEN INDICATED OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER FOR PROPER EQUIPMENT OPERATION. ALL PIPING ARRANGEMENTS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER AND THE ENGINEER PRIOR TO INSTALLATION.

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GAS PIPING:

PIPE AND FITTINGS SHALL BE BLACK STEEL WITH MALLEABLE IRON FITTINGS UP THROUGH 2" I.P.S. AND STEEL WELDING FITTINGS 2-1/2" I.P.S. AND ABOVE. DIELECTRIC COUPLINGS OR UNIONS SHALL BE UTILIZED WHEN PIPING OF DISSIMILAR METAL IS CONNECTED.

GAS PIPING SYSTEM SHALL BE INSTALLED TO THE REQUIREMENTS OF THE AGA PAMPHLET "INSTALLATION OF GAS APPLIANCES AND GAS PIPING" AND NFPA STANDARD NO. 54. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY ALL FEES WITH THE "LOCAL" GAS COMPANY FOR THE INSTALLATION OF THE GAS METER, GAS SERVICE, AND ITS ACCESSORIES.

GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA NO. 54. ANY OTHER TESTS AS REQUIRED BY THE LOCAL BUILDING INSPECTION DEPARTMENT OR GAS COMPANY SHALL ALSO BE PERFORMED. PAINT GAS PIPING WITH RUST RESISTANT PAINT.

SPLIT SYSTEM EQUIPMENT SCHEDULE

REFERENCE			FAN COIL SELECTION											CONDENSER SELECTION		ELECTRICAL								REMARKS
TAG	MANUFACTURER	AREA SERVED	GAS FURNACE MODEL	EVAPORATOR COIL MODEL	NOMINAL TONS	AIR FLOW (CFM)	FAN HP	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (BTUHR)	SEER	HEATING INPUT (KW)	HEATING OUTPUT (BTUHR)	OPERATING WEIGHT (LBS)	MODEL	OPERATING WEIGHT (LBS)	FAN COIL SELECTION				CONDENSER SELECTION				
																VOLTS	PH	MCA	MOPP	VOLTS	PH	MCA	MOPP	
AHU-1	YORK	SHOW ROOM AREA	JHETB48GBCS2N1	C48C	4	1,600	0.625	270	47,500	14.3	7.2	24,600	201	YHZE48B21S	220	208	1	50	60	208	1	26.1	45	A,B,C,D,E,F
GENERAL INFORMATION (ALL UNITS):																								
1. UNITS FURNISHED BY THE MECHANICAL CONTRACTOR, INSTALLATION AND STARTUP BY MECHANICAL CONTRACTOR.																								
2. 14.3 SEER MINIMUM UNITS WITH R-410A REFRIGERANT																								
3. PROVIDE SINGLE POINT POWER CONNECTION KIT FOR EACH AHU AND ASSOCIATED ELECTRICAL HEATING COIL.																								
4. ELECTRICAL CONDUCTS TO PROVIDE UNITS WITH FIELD MOUNTED AND WIRED DISCONNECT FOR SINGLE-POINT ELECTRICAL CONNECTION. REF ELECTRICAL.																								
5. PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT AT LOCATIONS SHOWN.																								
6. PRIMARY CONDENSATE SHALL BE TRAPPED AND ROUTED AS SHOWN ON PLANS.																								
7. PROVIDE ONE YEAR COMPLETE PARTS AND LABOR WARRANTY.																								
8. PROVIDE ADDITIONAL FIVE YEAR WARRANTY COVERING COMPRESSORS.																								
9. PROVIDE OUTDOOR CONDENSOR UNITS WITH RUBBER ISOLATOR KIT.																								
10. MOUNT OUTDOOR CONDENSOR UNIT ON ON CONCRETE PAD AND FIELD COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.																								
11. EQUIPMENT LISTED IS PROVIDED TO ESTABLISH A STANDARD. APPROVED EQUALS: TRANE, LENNOX, CARRIER.																								
12. PROVIDE FACTORY CORROSION PROTECTION FOR PROJECTS LOCATED WITH 10 MILES OF BRACKISH WATER.																								
REMARKS:																								
A. PROVIDE REMOTE SENSOR.																								
B. PROVIDE REMOVABLE/THROWAWAY FILTER IN FILTER RACK.																								
C. INDOOR UNIT TO HAVE FACTORY MOUNTED THERMAL EXPANSION VALVE IF REQUIRED FOR 14.3 SEER2 RATING.																								
D. PROVIDE FIELD INSTALLED ELECTRIC HEAT KIT, OUTPUT SPECIFIED IN SCHEDULE.																								
E. PROVIDE FLOAT SWITCH IN AUXILIARY DRAIN PAN FOR SECONDARY CONDENSATE SHUTOFF.																								
F. PROVIDE REFRIGERANT FILTER DRYER AT OUTDOOR CONDENSOR UNIT AS REQUIRED BY MANUFACTURER.																								

VENTILATION CALCULATIONS (FMC 2023)

LOCATION	AREA (A#)	UNIT SERVED BY	OCC. LOAD 1,000 SQ FT	TOTAL OCCUPANTS (P#)	CFM PERSON (P#)	CFM SQ FT (R#)	ZONE EFFECTIVENESS (E#)	AREA BASED CFM	OCCUPANCY BASED CFM	BREATHING ZONE (V#)	ZONE OUTDOOR AIRFLOW MIN (V#)	O/A PROVIDED
SHOW ROOM-100	438	AHU-1	10	4	5	0.06	0.8	26	22	48	60	60
OFFICE-100	113	AHU-1	5	1	5	0.06	0.8	7	3	12	10	10
IT CLOSET-104	31	AHU-1	0	0	0	0.12	0.8	4	0	4	5	10
SALES MANAGER-109	101	AHU-1	5	1	5	0.06	0.8	6	3	9	11	20
BREAKROOM-110	227	AHU-1	50	11	5	0.06	0.8	14	50	70	100	88
PARTS OFFICE-112	106	AHU-1	1	1	5	0.06	0.8	6	3	9	11	20
ELEC./MECH-115	78	AHU-1	0	0	0	0.12	0.8	9	0	9	12	20
CLOSET-130	12	AHU-1	0	0	0	0.12	0.8	1	0	1	2	10
CLOSET-131	9	AHU-1	0	0	0	0.12	0.8	1	1	1	1	10
TOTAL	1,114			17				75	87	161	202	270

INTAKE VENTILATOR SCHEDULE

[illegible]

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	DAMPER	MOUNTING POSITION	FACE	REMARKS
CD-1	PRICE	SDS	SUPPLY	NO	SURFACE MOUNTED	3/4" SLOT WIDTH, 2-SLOT	LINEAR SLOT DIFFUSER; 3/4" SLOT WIDTH; 2 SLOTS; 1 SLOT ANGLD TO WASH DOWN WALL, 1 SLOT TO WASH DOWN CEILING; ALUMINUM; WHITE ENAMEL, PROVIDE SDS INSULATED PLENUM
CD-2	TITUS	TMS-AA	SUPPLY	YES	SURFACE MOUNTED	24" X 24"	SQUARE DIFFUSER; ALUMINUM; WHITE ENAMEL; 360 DEGREE PATTERN; OPPOSED BLADE DEFLECTOR IN NECK
CD-3	TITUS	272RL	SUPPLY	YES	SURFACE MOUNTED	REF DRAWINGS	RECTANGULAR REGISTER; STEEL; WHITE ENAMEL; DOUBLE DEFLECTION 34° ADJUSTABLE LOUVERS; FRONT BLADES TO BE HORIZONTAL; OPPOSED BLADE DEFLECTOR IN NECK
CD-4	TITUS	TMS-AA	SUPPLY	YES	SURFACE MOUNTED	12" X 12"	SQUARE DIFFUSER; ALUMINUM; WHITE ENAMEL; 360 DEGREE PATTERN; OPPOSED BLADE DEFLECTOR IN NECK
RAG-1	PRICE	SDR	RETURN	NO	SURFACE MOUNTED	3/4" SLOT WIDTH, 2-SLOT	LINEAR SLOT DIFFUSER; 3/4" SLOT WIDTH; 2 SLOTS; ALUMINUM; WHITE ENAMEL; PROVIDE SDS INSULATED PLENUM
RAG-2	TITUS	25RL	RETURN	NO	SURFACE MOUNTED	REF DRAWINGS	RECTANGULAR GRILLE; STEEL; WHITE ENAMEL; 12" SPACING, 30 DEGREE DEFLECTION; OPPOSED BLADE DEFLECTOR IN NECK
RAG-3	TITUS	50F (TYPE 1)	RETURN	NO	SURFACE MOUNTED	12" X 12"	PERFORATED DIFFUSER; ALUMINUM; WHITE ENAMEL; 360 DEGREE PATTERN
RAG-4	TITUS	50F (TYPE 1)	RETURN	NO	SURFACE MOUNTED	24" X 24"	PERFORATED DIFFUSER; ALUMINUM; WHITE ENAMEL; 360 DEGREE PATTERN

GENERAL NOTES (APPLY TO ALL ABOVE):

- PROVIDE MOUNTING FRAME TO MATCH CEILING TYPE. VERIFY WITH ARCHITECTS PLANS PRIOR TO ORDERING.
- BRANCH DUCT SIZE SHALL BE SAME AS UNITS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
- STANDARD WHITE SAKED ENAMEL FINISH UNLESS NOTED OTHERWISE.
- FOUR-WAY THROW PATTERN FOR SQUARE DIFFUSERS UNLESS NOTED OTHERWISE.
- REFER TO PLANS FOR DIRECTIONAL ARROWS INDICATING CFM THROWS. NO DIRECTIONAL ARROWS INDICATES 4-WAY THROW.
- DAMPERS SHALL BE MOUNTED IN DUCT TAKE-OFFS.
- APPROVED EQUALS SHALL BE ACCEPTED.

MECHANICAL PIPE MATERIAL SCHEDULE

SERVICE	UNDERGROUND	ABOVE GROUND
GAS	-	BLACK STEEL, SCHEDULE 40
CONDENSATE DRAIN	-	HARD DRAWN COPPER TUBE TYPE "M" OR SCHEDULE 40 PVC
REFRIGERANT PIPING	-	COPPER REFRIGERANT PIPING
CONCENTRIC VENT FLUE	-	STAINLESS STEEL SINGLE WALL CATEGORY III

GENERAL INFORMATION:
1. ALL MATERIALS SHALL BE APPROVED BY THE OWNER.
2. NO PVC PLASTIC PIPING IS ALLOWED WITHIN CEILING VOIDS IF USED FOR NON-DUCTED RETURN AIR PLENUM.
3. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH ELASTOMERIC INSULATION MINIMUM 3/8" THICK.
4. LOCKING CAPS SHALL BE PROVIDED FOR ALL REFRIGERANT ACCESS PORTS.

SHOP AREA EXHAUST FAN SCHEDULE

REFERENCE				GENERAL				ELECTRICAL				REMARKS	
MARK	AREA SERVED	MANUFACTURER	MODEL	TYPE	DRIVE	CFM	ESP (IN WVG)	MOTOR HP	MAX BHP	VOLTS	PH		
WFS-1	SHOP AREA	GREENHECK	AER-202-00621	WALL TYPE L	DIRECT	5,200	0.25	1	0.99	460	3	CONTINUOUS	A
GENERAL INFORMATION (ALL FANS AS APPLICABLE):													
1. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT VOLTAGE AND PHASE OF EACH AND EVERY EQUIPMENT ITEM WITH THE ELECTRICAL CONTRACTOR, PRIOR TO ORDER.													
2. PROVIDE PREFINISHED WEATHERPROOF LOUVERS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISH SELECTION.													
3. PROVIDE GRAVITY BACKDRAFT DAMPER, FIBROSCREEN, HEAVY-DUTY SAFETY MOUNTED DISCONNECT, AND OSHA MOTOR SIDE GUARD.													
4. FANS MUST BE AMCA CERTIFIED AS WELL AS UL OR ETL LISTED.													
5. ENSURE MINIMUM 10" CLEARANCE FROM AIR INTAKES.													
6. FANS ARE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.													
7. PROVIDE FACTORY PRE-WIRED FAN SPEED CONTROLLER FOR DIRECT DRIVE FANS.													
8. NO SUBSTITUTIONS ALLOWED TO WORK WITH PNEUMATICALLY OPERATED OPENINGS.													
9. INTERLOCK FANS WITH FIRE ALARM AS REQUIRED BY AHJ. FIELD COORDINATE REQUIREMENTS WITH FIRE ALARM CONTRACTOR.													
REMARKS:													
A. INTERLOCK EXHAUST FAN WITH WFS-1.													

SHOP AREA SUPPLY FAN SCHEDULE

REFERENCE				GENERAL				PERFORMANCE		ELECTRICAL			CONTROL METHOD	REMARKS
MARK	AREA SERVED	MANUFACTURER	MODEL	TYPE	DRIVE	CFM	ESP (BHP)	MOTOR HP	MAX BHP	VOLTS	PH			
WSF-1	SHOP AREA	GREENHECK	AER-20-0821	WALL / TYPE L	DIRECT	5,200	0.25	1	0.99	460	3	CONTINUOUS	-	
GENERAL INFORMATION (ALL FANS ARE APPLICABLE):														
1. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT VOLTAGE AND PHASE OF EACH AND EVERY EQUIPMENT ITEM WITH THE ELECTRICAL CONTRACTOR, PRIOR TO ORDERING.														
2. PROVIDE PREFINISHED WEATHERPROOF LOUVERS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISH SELECTION.														
3. PROVIDE FACTORY PREPARED FAN SPEED CONTROLLER, BIRDSCREEN, 1/2" HEAVY DUTY MOUNTED DISCONNECT, OSHA MOTOR SIDE GUARD, AND WEATHERHOOD.														
4. FANS MUST BE AMCA CERTIFIED AS WELL AS UL OR ETL LISTED.														
5. ALL FANS ARE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.														
6. PROVIDE FACTORY PREPARED FAN SPEED CONTROLLER FOR DIRECT DRIVE FANS.														
7. PROVIDE MOTOR-OPERATED DAMPER WITH 120V ACTUATOR AND FAN START TIME DELAY CONTROLS.														
8. PROVIDE ACCESS TO WORK WITH PEMS PROVIDED OPENINGS.														
9. INTERLOCK FANS WITH FIRE ALARM AS REQUIRED BY AHJ. FIELD COORDINATE REQUIREMENTS WITH FIRE ALARM CONTRACTOR.														

INLINE EXHAUST FAN SCHEDULE

[illegible]

ELECTRIC UNIT HEATER SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	KW	HP	CFM	ELECTRIC DATA		OPERATING WEIGHT	NOTES	
							V	PHASE	MCCP		
UH-1	SHOP	REZNOR	EGHB-3	2	0.033	510	480	3	15	45	A.B.C
UH-2	SHOP	REZNOR	EGHB-3	2	0.033	510	480	3	15	45	A.B.C
UH-3	SHOP	REZNOR	EGHB-3	2	0.033	510	480	3	15	45	A.B.C
UH-4	SHOP	REZNOR	EGHB-2	2	0.033	510	480	3	15	45	A.B.C

GENERAL INFORMATION (ALL UNITS):

A. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT VOLTAGE AND PHASE OF EACH AND EVERY EQUIPMENT ITEM WITH THE ELECTRICAL CONTRACTOR, PRIOR TO ORDER.

B. ALL UNITS ARE 480V, 3 PHASE, 60 HERTZ

C. INSTALL BOTTOM OF HEATER AT ELEVATION INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.

D. PROVIDE UNIT WITH DISCONNECT SUPPLIED AND WIRED BY ELECTRICAL CONTRACTOR FOR A SINGLE POINT ELECTRICAL CONNECTION.

REMARKS:

A. MOUNT AT 16'-0" AFF WITHOUT OBSTRUCTING AIR FLOW.

B. PROVIDE WITH WALL MOUNTED STANDARD THERMOSTAT KIT.

C. PROVIDE WITH MANUFACTURER'S STANDARD LOUVER AND CEILING MOUNTING BRACKET.

pb2
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+engineering

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EQUIPMENT SHARE GROUND-UP

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MECHANICAL SCHEDULES

SHEET:
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