GENERAL ABBREVIATIONS:

AD	AREA DRAIN
AFF	ABOVE FINISH FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
CL	CENTERLINE
CTB	CLOSE TO BEAM
CTC	CLOSE TO COLUMN
CTJ	CLOSE TO JOIST
CTW	CLOSE TO WALL
DIA	DIAMETER
DN	DOWN
E	EXISTING
EL	ELEVATION
ETR	EXISTING TO REMAIN
FC	FLEXIBLE CONNECTION
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FLR	FLOOR
FT	FEET
GC	GENERAL CONTRACTOR
HD	HEAD (FEET)
HP	HORSEPOWER
ID	INSIDE DIAMETER
IN	INCH
IWS	IN WALL SPACE
KW	KILOWATT
MFR	MANUFACTURER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPS	NOMINAL PIPE SIZE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PD	PRESSURE DROP
PH	PHASE
PSI	POUND PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
RTD	RESISTIVE THERMAL DEVICE
SHT	SHEET
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TJA	THRU JOISTS ABOVE
TOB	TOP OF BEAM
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TYP	TYPICAL
V	VOLTS

MECHANICAL ABBREVIATIONS:

A	COMPRESSOR AIR
AC	AIR COMPRESSOR
ACV	AUTOMATIC CONTROL VALVE
AD	AIR DROP/ACCESS DOOR
AF	AIR FILTER
B	BOILER
BBS	BOILER BLOWDOWN SEPARATOR
BTU	BRITISH THERMAL UNIT
BTUH	BTU's PER HOUR
CA	COMBUSTION AIR/COMPRESSED AIR
CH	CHILLER
COND	CONDENSATE
CRP	CONDENSATE RETURN PUMP
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
D	CONDENSATE DRAIN
DDC	DIRECT DIGITAL CONTROL
ED	EQUIPMENT DRAIN
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FAF	FORCED AIR FURNACE
FCU	FAN COIL UNIT
FM	FLOWMETER
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FS	FLOW SWITCH
FT	FLASH TANK
FTC	FIN TUBE CONVECTOR
GLR	GLYCOL RETURN
GLS	GLYCOL SUPPLY
GRV	GAS REGULATOR VALVE
HC	HEATING COIL
HE	HEAT EXCHANGER
HUM	HUMIDIFIER
HP	HEAT PUMP
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY
HWB	HOT WATER BOILER
LP	LIQUID PETROLEUM
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU's PER HOUR
MD	MAIN DRIP
NG	NATURAL GAS
P	PUMP
PCV	PRESSURE CONTROL VALVE
PF	PRE-FILTER
PRV	PRESSURE REGULATING/REDUCING VALVE
RAD	RADIATOR
RC	REHEAT COIL
RCP	RADIANT CEILING PANEL
RTU	ROOFTOP AIR HANDLING UNIT
RV	RELIEF VENT/RELIEF VALVE
SMF	STEAM FILTER
SRV	SAFETY RELIEF VALVE
UH	UNIT HEATER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATOR
WCC	WATER COOLED CONDENSER

GENERAL NOTES:

1. ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. 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.
3. 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.
4. 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.
5. ACCURATE AND LEGIBLE RECORD (AS-BUILT) DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
6. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
7. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
8. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
9. 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.

GENERAL SYMBOLS:

- AUTOMATIC CONTROL VALVE (2-WAY)
- AUTOMATIC CONTROL VALVE (3-WAY)
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GLOBE VALVE
- GATE VALVE
- GLOBE, ANGLE VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE REGULATING VALVE
- SHUTOFF/ISOLATION VALVE
- SOLENOID VALVE ONE-WAY (ELECTRIC)
- STRAINER
- PIPE TURNED TOWARD
- PIPE TURNED AWAY
- BRANCH BOTTOM CONNECTION
- BRANCH TOP CONNECTION
- PLUGGED TEE-TURNED TOWARD
- PIPE ANCHOR (INTERMEDIATE) (PA)
- RELIEF VALVE
- GAUGE CONNECTION
- PIPE GUIDE (PG)
- FLEXIBLE CONNECTOR
- UNION
- BLIND FLANGE
- REDUCER (CONCENTRIC)
- REDUCER (ECCENTRIC)
- PIPE CAP
- PIPE PLUG
- PRESSURE GAUGE WITH COCK
- TEMPERATURE GAUGE WITH COCK
- FLUID FLOW DIRECTION
- PIPE PITCH DIRECTION (PITCH)
- NEW CONNECTION TO EXISTING
- EXISTING - TO REMAIN
- EXISTING - TO BE REMOVED
- PROPOSED - TO BE INSTALLED
- AIR VENT (MANUAL) (MV)
- VACUUM BREAKER

MECHANICAL SYMBOLS:

- AIRFLOW (SUPPLY)
- AIRFLOW (RETURN)
- AIRFLOW (DOOR GRILLE) (DG)
- SUPPLY OR OUTDOOR AIR
- RETURN
- EXHAUST
- DUCT TURNED AWAY
- SUPPLY DUCT TURNED TOWARD
- DUCT SIZE (FIRST FIGURE IS SIDE SHOWN) (12x12)
- FLEXIBLE CONNECTION
- DUCT (RIGID ROUND)
- DUCT (FLEXIBLE ROUND)
- TURNING VANES
- TRANSITION (SQUARE-TO-ROUND)
- BACKDRAFT DAMPER (BD)
- VOLUME DAMPER (VD)
- FIRE DAMPER & ACCESS DOOR (AD, FD)
- MOTOR OPERATED DAMPER (MOD)
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- CARBON MONOXIDE (CO) SENSOR (CO)
- NITROGEN DIOXIDE (NO2) SENSOR (NO)
- ROOM SENSOR (RS)
- STATIC PRESSURE SENSOR (SP)
- HUMIDISTAT (H)
- TEMPERATURE SENSOR (TS)
- THERMOSTAT (T)
- INSULATED BASE THERMOSTAT (T, 60/72/84)
- SMOKE DETECTOR (S)
- AIR OUTLET/INLET TYPE (CFM) (A, 100)

MECHANICAL PIPING:

A	COMPRESSED AIR
BFW	BOILER FEED WATER
BSD	BOILER SURFACE BLOW DOWN
BBD	BOILER BOTTOM BLOW DOWN
CF	CHEMICAL FEED
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CTS	COOLING TOWER WATER SUPPLY
CTR	COOLING TOWER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CD	CONDENSATE DRAIN
GLS	GLYCOL WATER SUPPLY
GLR	GLYCOL WATER RETURN
HPS	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
IWS	ICE WATER SUPPLY
IWR	ICE WATER RETURN
LP	LIQUID PETROLEUM
LPS	LOW PRESSURE STEAM
LPCR	LOW PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MPCR	MEDIUM PRESSURE CONDENSATE RETURN
G	NATURAL GAS
PCR	PUMPED CONDENSATE RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
SRV	STEAM RELIEF VENT
VAC	VACUUM

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sbn south bend INTERNATIONAL

St. Joseph County Airport Authority
South Bend International Airport (SBN) HVAC Replacement

4477 Progress Drive
South Bend, IN. 46628

ISSUED:
10/10/14 Issued For Construction

AIP NO.: 3-18-0079-046
M&H NO.: 2892200-132107.01
DATE: October 10, 2014
DESIGNED BY: AMT
DRAWN BY: RRW
CHECKED BY: SNW

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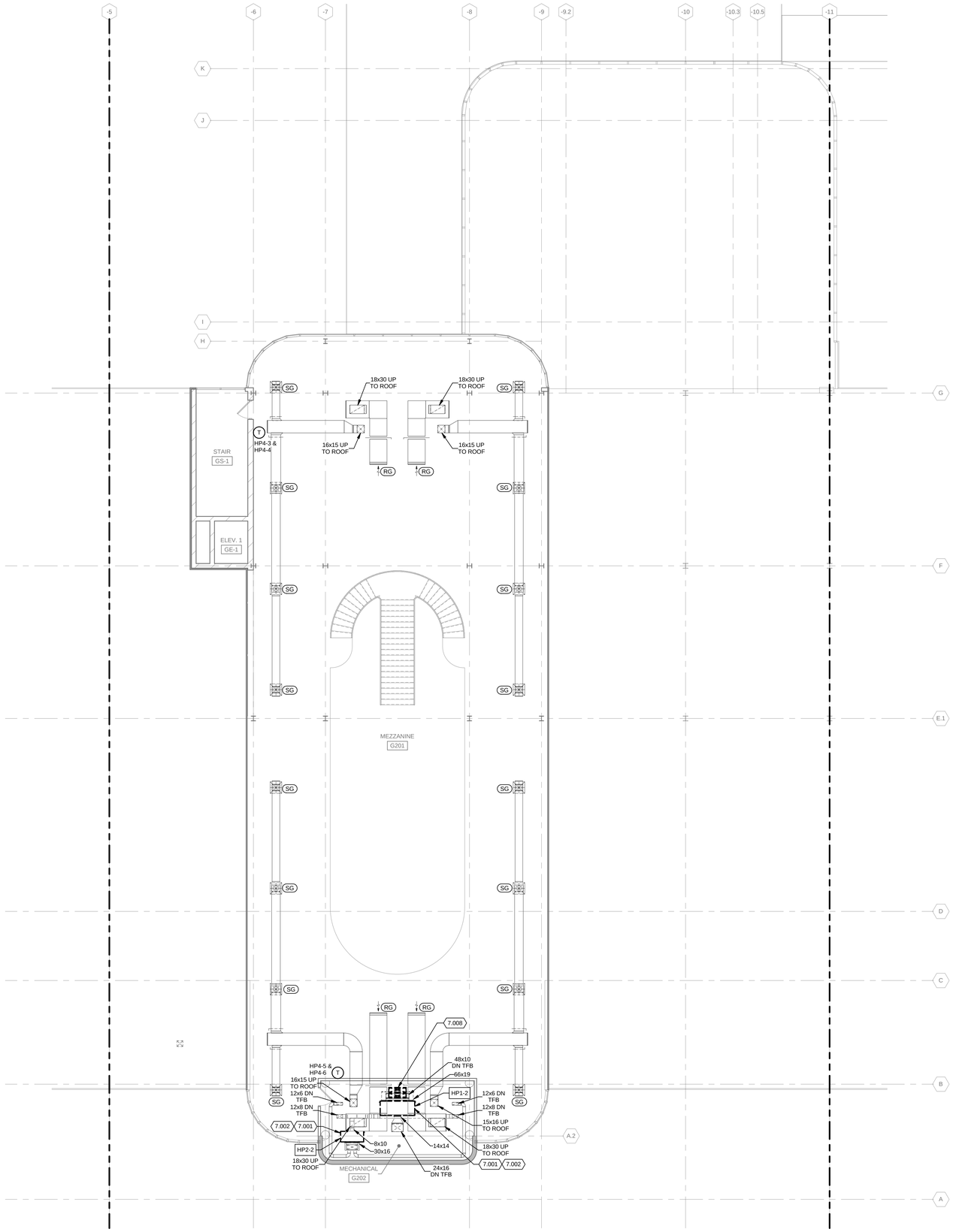
SHEET CONTENTS
MECHANICAL NOTES & SYMBOLS

SHEET NO.:
M-001

10/6/2014 10:41:48 AM C:\Revit Local\2892200-132107.01 MEP-CENTRAL-2014_1244rjb.rvt



MECHANICAL HVAC DEMOLITION GENERAL NOTES:

1. REFER TO SHEET M-001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL NOTES PERTAINING TO THIS SHEET.
2. PRIOR TO HEAT PUMP REMOVAL, CONTRACTOR SHALL TURN OFF ELECTRICAL POWER TO THE UNIT AND CLOSE THE PIPING ISOLATION VALVES.
3. REMOVE CEILING TILE, CEILING FRAME, LIGHTS AND DEVICES NECESSARY FOR REMOVAL OF HEAT PUMP. ALL ITEMS SHALL BE SAVED FOR REINSTALLATION AND STORED IN A MANNER PROTECTING THEM FROM DAMAGE. ALL DAMAGED TILES, FRAMES, LIGHTS, ETC. WILL BE REPLACED BY THIS CONTRACTOR.

KEYED NOTES

7.001 CONTRACTOR SHALL DISCONNECT PIPING AND ELECTRICAL CONNECTIONS AT PUMP AND CAREFULLY DISCONNECT HEAT PUMP FROM DUCTWORK AT SERVICE SIDE OF FLEXIBLE CONNECTIONS. REMOVE TRANSITIONS AT HEAT PUMP SUPPLY AND RETURN. REMOVE BRAIDED SUPPLY AND RETURN HOSES.

7.002 CONTRACTOR SHALL REMOVE THE HEAT PUMP FROM PROJECT SITE, UNLESS OTHERWISE DIRECTED TO DELIVER TO OWNER DESIGNATED STORAGE AREA.

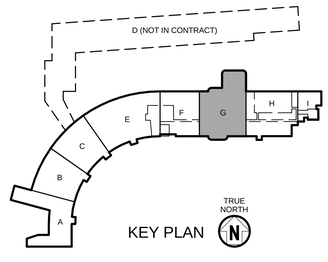
7.008 REMOVE DUCTWORK AS SHOWN AND PATCH REMAINING DUCT OPENING AIRTIGHT, UNLESS IT IS TO BE USED FOR NEW CONNECTION.

NORTH

SECOND FLOOR HVAC DEMOLITION PLAN - AREA G

1/8" = 1'-0"

0 4 8 16



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SHEET CONTENTS
SECOND FLOOR HVAC DEMOLITION PLAN - AREA G

SHEET NO.:
MD103g

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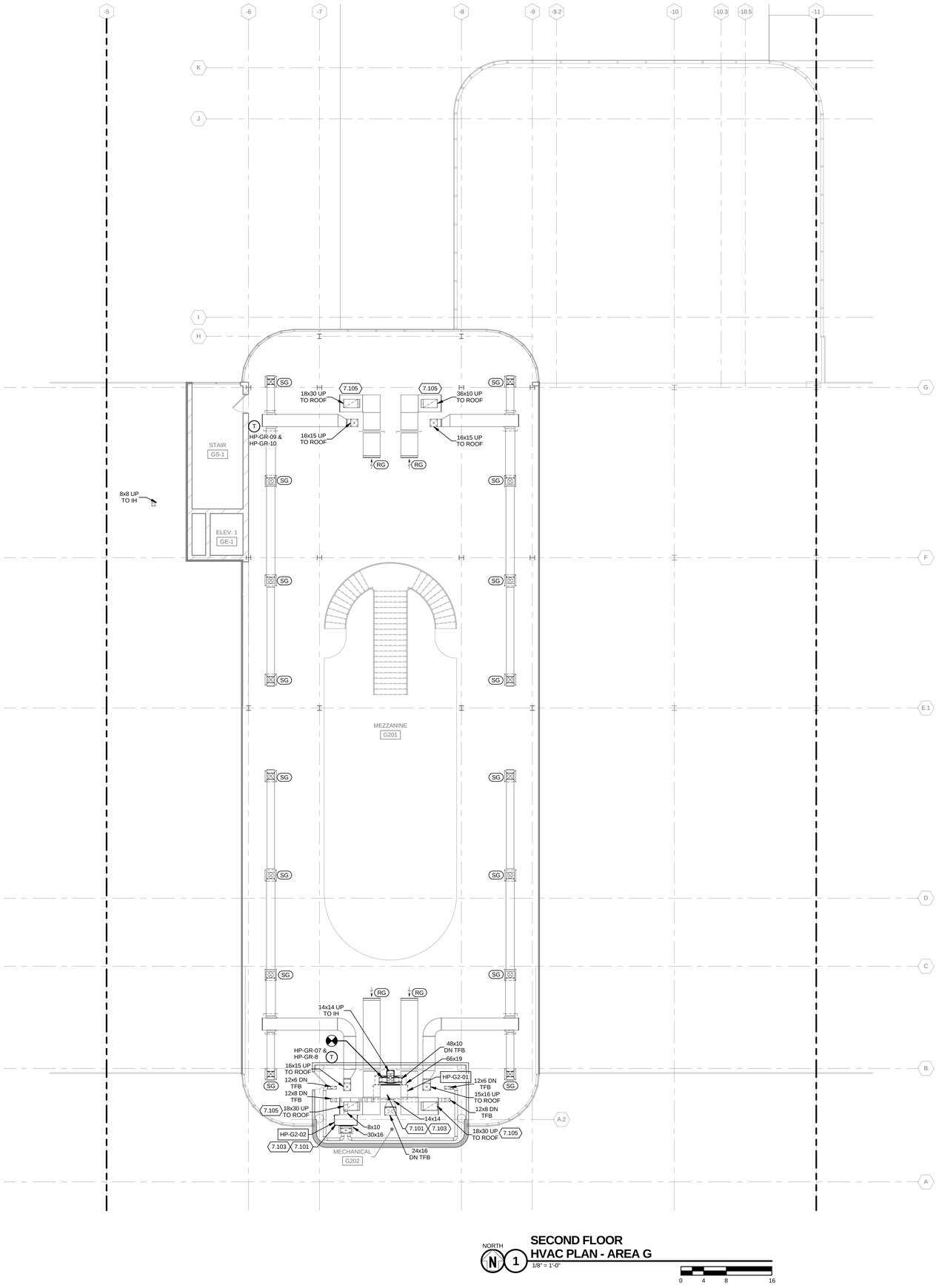


NORTH

SECOND FLOOR
HVAC PLAN - AREA G

1/8" = 1'-0"

0 4 8 16

MECHANICAL HVAC GENERAL NOTES:

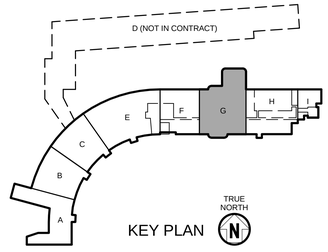
1. REFER TO SHEET M-001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL NOTES PERTAINING TO THIS SHEET.
2. REFER TO M-500 SERIES SHEETS FOR DETAILS PERTAINING TO THIS SHEET.
3. REFER TO M-600 SERIES SHEETS FOR SCHEDULES PERTAINING TO THIS SHEET.

KEYED NOTES

7.101 INSTALL NEW HEAT PUMP IN PREVIOUS PUMP LOCATION USING NEW MOUNTING HARDWARE AND VIBRATION ISOLATORS. CONTRACTOR SHALL PROVIDE NEW FLEXIBLE CONNECTIONS AND FIELD FABRICATE DUCTWORK TO MATCH EXISTING. IF NECESSARY, CONTRACTOR SHALL FABRICATE NEW FILTER HOUSING ON RETURN SIDE OF HEAT PUMP AND COORDINATE FILTER CHANGE ACCESSIBILITY LOCATION TO AVOID NEARBY OBSTRUCTIONS.

7.103 CONTRACTOR SHALL TAG EACH HEAT PUMP WITH THE CORRESPONDING MARK DESIGNATION FOUND ON THE HEAT PUMP SCHEDULE. THE LETTERS AND NUMBERS SHALL BE ACCORDING TO SPEC. SECTION 230553. TAG THE HEAT PUMP HOUSING IN A CONSISTANT LOCATION VIEWABLE FROM GROUND, CATWALK OR ANY OTHER ACCESSIBLE LEVELS.

7.105 TRANSITION EXISTING SUPPLY AND RETURN DUCTWORK TO OPENING ON NEW ROOFTOP HEAT PUMP UNIT.



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South Bend International Airport (SBN) HVAC Replacement

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SHEET CONTENTS
SECOND FLOOR
HVAC PLAN - AREA G

SHEET NO.:
M-103g

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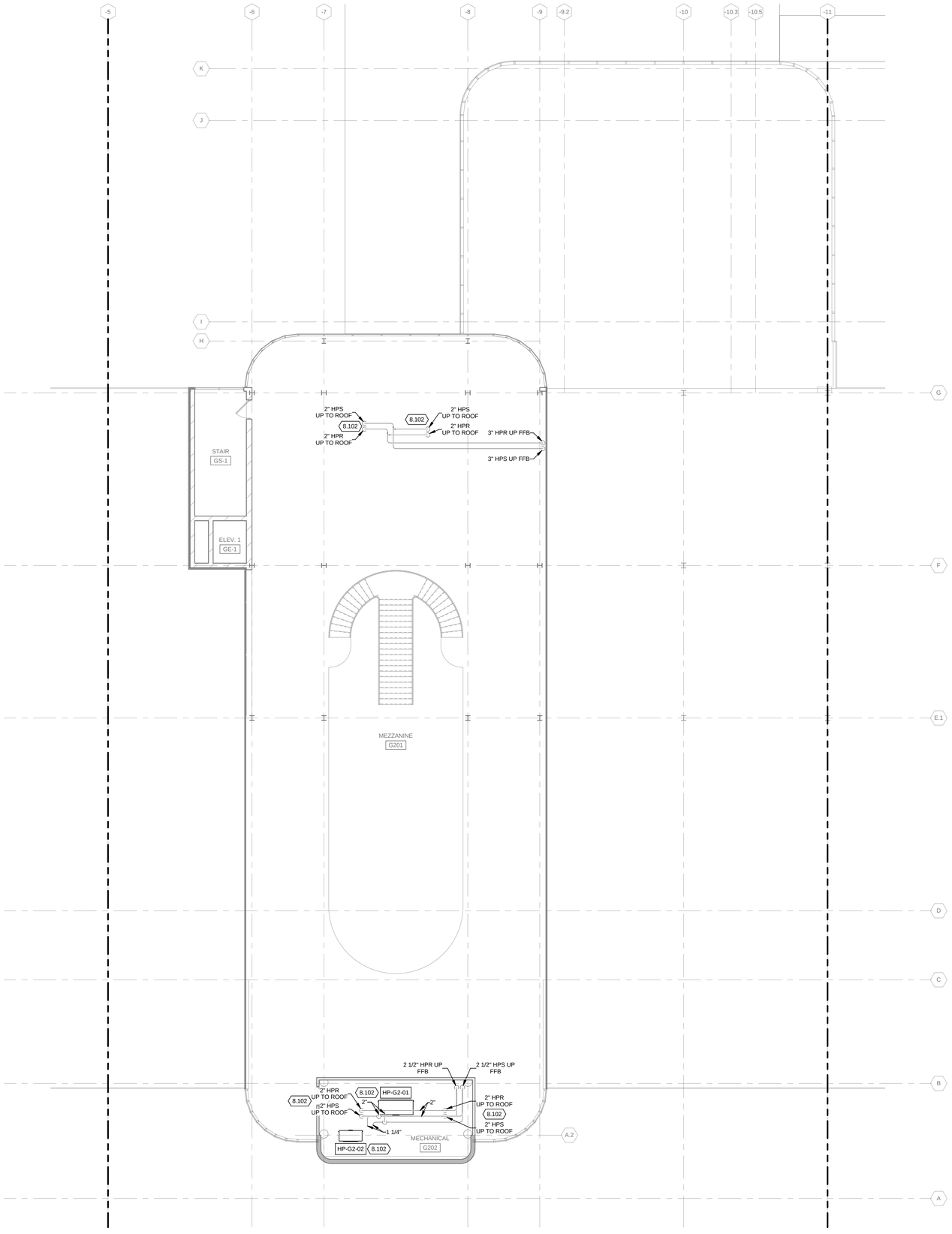


NORTH

1

SECOND FLOOR MECHANICAL PIPING PLAN - AREA G

1/8" = 1'-0"

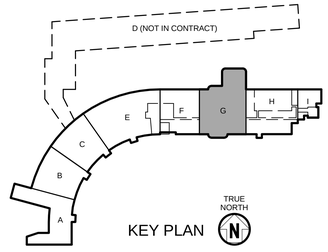
0 4 8 16

MECHANICAL PIPING GENERAL NOTES:

1. REFER TO SHEET M-001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL NOTES PERTAINING TO THIS SHEET.
2. REFER TO M-500 SERIES SHEETS FOR DETAILS PERTAINING TO THIS SHEET.
3. REFER TO M-600 SERIES SHEETS FOR SCHEDULES PERTAINING TO THIS SHEET.
4. INSULATE ALL EXISTING AND NEW HEAT PUMP LOOP PIPING PER SCHEDULES AND SPECIFICATIONS. INSULATE PIPING MAINS AND BRANCHES UP TO HEAT PUMP UNIT ISOLATION VALVES. REMOVE EXISTING HANGERS AND SUPPORTS AND REPLACE WITH NEW HANGERS AND SUPPORTS TO ACCOMODATE PIPE INSULATION.

KEYED NOTES

8.102 PROVIDE NEW BRAIDED FLEXIBLE HOSES FOR HEAT PUMP SIZE BASED ON HEAT PUMP CONNECTIONS. RECONNECT NEW COIL CONDENSATE TO EXISTING DRAIN SYSTEM.



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SHEET CONTENTS
SECOND FLOOR MECHANICAL PIPING PLAN - AREA G

SHEET NO.:

M-132g

10/6/2014 10:56:39 AM C:\Revit Local\2892200-132107.01 MEP-CENTRAL_2014_1244rjb.rvt

HEAT PUMP (HP) SCHEDULE

NEW MARK	OLD MARK	MANUFACTURER	MODEL	SIZE	TYPE	ARRANGEMENT	SUPPLY AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	TOTAL S.P. (IN W.C.)	FAN MOTOR POWER (HP)	FAN MOTOR SPEED (RPM)	OUTDOOR DRY BULB TEMP. SUMMER (F)	OUTDOOR DRY BULB TEMP. WINTER (F)	COOLING CAPACITY TOTAL (MBH)	COOLING CAPACITY SENS (MBH)	COOLING EAT DB (F)	COOLING EAT WB (F)	COOLING (1) MIN. EER	HEATING CAP. (MBH)	HEATING EAT DB (F)	HEATING (1) COP	CONDENSING FLUID TYPE	COOL TEMP (F)	HEAT TEMP (F)	FLOW RATE (GPM)	PRESS. DROP (FT)	ELECTRICAL (VOLTS/PH)	MCA (A)	WEIGHT (LBS)	(2) SUPPLY CONFIG	(2) RETURN CONFIG	LOCATION	ACCESSORIES	REMARKS
HP-AL-01	HP-8-4	FLORIDA HEAT PUMP	EP	18	WSHP	HORIZ.	555	50	0.3	0.33	-	91	-2	18.9	14.4	80	67	16.6	16.6	68	4.2	25% PG	85	45	5	15.5	265 / 1	10.1	198	LE	LR	AREA A	2, 5 ,6	
HP-AL-02	HP-7-3	FLORIDA HEAT PUMP	EP	18	WSHP	HORIZ.	555	50	0.3	0.33	-	91	-2	18.9	14.4	80	67	16.6	16.6	68	4.2	25% PG	85	45	5	15.5	265 / 1	10.1	198	LS	RR	AREA A	2, 5 ,6	
HP-AL-03	HP-6-9	FLORIDA HEAT PUMP	EP	36	WSHP	HORIZ.	1020	250	0.3	0.5	-	91	-2	34.8	26.6	80	67	16.2	32.6	68	4.5	25% PG	85	45	10	12.1	265 / 1	24.3	369	LS	LR	AREA A	2, 5 ,6	
HP-AL-04	HP-10	FLORIDA HEAT PUMP	EP	12	WSHP	HORIZ.	400	0	0.4	0.1	-	91	-2	12.7	10	80	67	15.2	11.8	68	4.1	25% PG	85	45	4	8.6	265 / 1	5.6	173	LS	LR	AREA A	2, 5 ,6	
HP-AL-05	HP-8-3	FLORIDA HEAT PUMP	EP	15	WSHP	HORIZ.	425	60	0.3	0.33	-	91	-2	14.4	11	80	67	16.1	12.3	68	4	25% PG	85	45	4	8.3	265 / 1	8.3	190	LS	LR	AREA A	2, 5 ,6	
HP-AL-06	HP-3-19	FLORIDA HEAT PUMP	EP	48	WSHP	HORIZ.	1600	0	0.4	0.75	-	91	-2	47.5	38.9	80	67	16.2	40.6	68	4.4	25% PG	85	45	12	17.3	480 / 3	13.1	405	LS	LR	AREA A	2, 5 ,6	
HP-AR-01	HP-6-12	TRANE AXIOM	GER	036	WSHP	DOWNFLOW	975	0	0.4	0.75	702	91	-2	38	26	80	67	15.2	33	68	4.8	25% PG	85	45	5.5	3	230 / 1	29.3	513	-	-	AREA A	1, 2, 4, 5, 6	
HP-AR-02	HP-2-19	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	520	0.7	1	727	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA A	1, 2, 3, 4, 5, 6	
HP-AR-03	AR 21-01	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	2400	250	0.6	1	649	91	-2	86	59	80	67	13	78	68	4.4	25% PG	85	45	27	16	480 / 3	17	794	-	-	AREA A ROOF	1, 2, 3, 4, 5, 6	
HP-AR-04	AR 21-02	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	2400	250	0.6	1	649	91	-2	86	59	80	67	13	78	68	4.4	25% PG	85	45	27	16	480 / 3	17	794	-	-	AREA A ROOF	1, 2, 3, 4, 5, 6	
HP-AR-05	HP-2-16	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	520	0.7	1	727	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA A ROOF	1, 2, 3, 4, 5, 6	
HP-AR-06	HP-2-15	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	520	0.7	1	727	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA A ROOF	1, 2, 3, 4, 5, 6	
HP-BL-01	HP-1-10	FLORIDA HEAT PUMP	EP	42	WSHP	HORIZ.	1190	310	0.4	0.75	-	91	-2	40.1	30.7	80	67	18.1	32.2	68	4.6	25% PG	85	45	10	7.3	480 / 3	12.8	400	LS	LR	AREA B	2, 5, 6	
HP-BL-02	HP-1-9	FLORIDA HEAT PUMP	EP	48	WSHP	HORIZ.	1360	330	0.4	0.75	-	91	-2	46.5	35.4	80	67	16.5	40.1	68	4.4	25% PG	85	45	12	17.3	480 / 3	13.1	405	LS	LR	AREA B	2, 5, 6	
HP-BL-03	HP-7-8	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	810	40	0.3	0.33	-	91	-2	25.6	20.3	80	67	16.5	22.7	68	4.3	25% PG	85	45	6	10.4	265 / 1	13.8	307	LS	LR	AREA B	2, 5, 6	
HP-BL-04	HP-3-15	FLORIDA HEAT PUMP	EP	60	WSHP	HORIZ.	1700	330	0.4	0.75	-	91	-2	60.2	45.2	80	67	15.4	54	68	4.5	25% PG	85	45	15	13.8	480 / 3	14.4	452	RE	RR	AREA B	2, 5, 6	
HP-BL-05	HP-8-1	FLORIDA HEAT PUMP	EP	12	WSHP	HORIZ.	400	15	0.4	0.1	-	91	-2	12.7	10	80	67	15.2	11.8	68	4.1	25% PG	85	45	4	8.6	265 / 1	5.6	173	RS	RR	AREA B	2, 5, 6	
HP-BL-06	HP-8-2	FLORIDA HEAT PUMP	EP	18	WSHP	HORIZ.	555	0	0.3	0.33	-	91	-2	18.9	14.4	80	67	16.6	16.6	68	4.2	25% PG	85	45	5	15.5	265 / 1	10.1	198	LS	LR	AREA B	2, 5, 6	
HP-BR-01	HP-1-7	TRANE AXIOM	GER	036	WSHP	DOWNFLOW	1100	90	0.5	1	790	91	-2	40	29	80	67	15.2	35	68	4.8	25% PG	85	45	7.5	5.1	480 / 3	10.5	513	-	-	AREA B ROOF	1, 2, 4, 5, 6	
HP-BR-02	HP-1-6	TRANE AXIOM	GER	036	WSHP	DOWNFLOW	1100	90	0.5	1	790	91	-2	40	29	80	67	15.2	35	68	4.8	25% PG	85	45	7.5	5.1	480 / 3	10.5	513	-	-	AREA B ROOF	1, 2, 4, 5, 6	
HP-BR-03	HP-1-5	TRANE AXIOM	GER	036	WSHP	DOWNFLOW	1100	90	0.5	1	790	91	-2	40	29	80	67	15.2	35	68	4.8	25% PG	85	45	7.5	5.1	480 / 3	10.5	513	-	-	AREA B ROOF	1, 2, 4, 5, 6	
HP-BR-04	BR 20-04	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	2400	250	0.6	1	649	91	-2	86	59	80	67	13	78	68	4.4	25% PG	85	45	27	16	480 / 3	17	794	-	-	AREA B ROOF	1, 2, 3, 4, 5, 6	
HP-BR-05	BR 20-05	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	2400	250	0.6	1	649	91	-2	86	59	80	67	13	78	68	4.4	25% PG	85	45	27	16	480 / 3	17	794	-	-	AREA B ROOF	1, 2, 3, 4, 5, 6	
HP-BR-06	HP-2-10	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	330	0.7	1	727	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA B ROOF	1, 2, 3, 4, 5, 6	
HP-BR-07	HP-2-12	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	330	0.7	1	727	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA B ROOF	1, 2, 3, 4, 5, 6	
HP-BR-08	HP-4-5	TRANE AXIOM	GER	060	WSHP	DOWNFLOW	2200	280	0.7	1	913	91	-2	63	53	80	67	14.8	55	68	4.8	25% PG	85	45	16	18	480 / 3	13.8	704	-	-	AREA B ROOF	1, 2, 3, 4, 5, 6	
HP-BR-09	HP-2-11	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	330	0.7	1	727	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA B ROOF	1, 2, 3, 4, 5, 6	
HP-BR-10	HP-1-8	TRANE AXIOM	GER	036	WSHP	DOWNFLOW	1100	75	0.5	1	790	91	-2	40	29	80	67	15.2	35	68	4.8	25% PG	85	45	7.5	5.1	480 / 3	10.5	513	-	-	AREA B ROOF	1, 2, 4, 5, 6	
HP-CL-01	HP-7-7	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	810	40	0.3	0.33	-	91	-2	25.6	20.3	80	67	16.5	22.7	68	4.3	25% PG	85	45	6	10.4	265 / 1	13.8	307	LS	LR	AREA C	2, 5, 6	
HP-CL-02	HP-7-6	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	810	40	0.3	0.33	-	91	-2	25.6	20.3	80	67	16.5	22.7	68	4.3	25% PG	85	45	6	10.4	265 / 1	13.8	307	LS	LR	AREA C	2, 5, 6	
HP-CL-03	HP-7-5	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	810	0	0.3	0.33	-	91	-2	25.6	20.3	80	67	16.5	22.7	68	4.3	25% PG	85	45	6	10.4	265 / 1	13.8	307	LS	LR	AREA C	2, 5, 6	
HP-CL-04	HP-1-4	FLORIDA HEAT PUMP	EP	36	WSHP	HORIZ.	1200	90	0.4	0.5	-	91	-2	35.6	29.2	80	67	15.5	33.2	68	4.5	25% PG	85	45	10	12.1	480 / 3	10	369	RE	RR	AREA C	2, 5, 6	
HP-CL-05	HP-1-3	FLORIDA HEAT PUMP	EP	36	WSHP	HORIZ.	1200	90	0.4	0.5	-	91	-2	35.6	29.2	80	67	15.5	33.2	68	4.5	25% PG	85	45	10	12.1	480 / 3	10	369	RE	RR	AREA C	2, 5, 6	
HP-CL-06	HP-3-9	FLORIDA HEAT PUMP	EP	60	WSHP	HORIZ.	1700	460	0.4	0.75	-	91	-2	60.2	45.2	80	67	15.4	54	68	4.5	25% PG	85	45	15	13.8	480 / 3	14.4	452	RE	RR	AREA C	2, 5, 6	
HP-CR-01	HP-2-9	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	370	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA C ROOF	1, 2, 3, 4, 5, 6	
HP-CR-02	HP-2-8	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	370	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA C ROOF	1, 2, 3, 4, 5, 6	
HP-CR-03	CR 20-07	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	2400	250	0.6	1	649	91	-2	86	59	80	67	13	78	68	4.4	25% PG	85	45	27	16	480 / 3	17	794	-	-	AREA C ROOF	1, 2, 3, 4, 5, 6	
HP-CR-04	CR 20-08	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	2400	250	0.6	1	649	91	-2	86	59	80	67	13	78	68	4.4	25% PG	85	45	27	16	480 / 3	17	794	-	-	AREA C ROOF	1, 2, 3, 4, 5, 6	
HP-CR-05	HP-2-7	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	240	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA C ROOF	1, 2, 3, 4, 5, 6	
HP-CR-06	HP-4-6	TRANE AXIOM	GER	060	WSHP	DOWNFLOW	2200	240	0.7	1	913	91	-2	63	53	80	67	14.8	55	68	4.8	25% PG	85	45	16	18	480 / 3	13.8	704	-	-	AREA C ROOF	1, 2, 3, 4, 5, 6	
HP-EL-01	HP-19	FLORIDA HEAT PUMP	EP	30	WSHP	HORIZ.	850	40	0.4	0.33	-	91	-2	27.5	21.6	80	67	15.8	23.7	68	4.5	25% PG	85	45	7	4.8	265 / 1	14.6	358	RS	RR	AREA E	2, 5, 6	
HP-EL-02	HP-20	FLORIDA HEAT PUMP	EP	18	WSHP	HORIZ.	555	40	0.4	0.33	-	91	-2	18.9	14.4	80	67	16.4	16.6	68	4.1	25% PG	85	45	5	15.5	265 / 1	10.1	198	RE	RR	AREA E	2, 5, 6	
HP-EL-03	HP-1-1	FLORIDA HEAT PUMP	EP	36	WSHP	HORIZ.	1200	250	0.4	0.5	-	91	-2	35.6	29.2	80	67	15.5	33.2	68	4.5	25% PG	85	45	10	12.1	480 / 3	10	369	RS	RR	AREA E	2, 5, 6	
HP-EL-04	HP-3-3	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	950	200	0.4	0.33	-	91	-2	26.1	22.4	80	67	16	23	68	4.3	25% PG	85	45	6	10.4	480 / 3	7	307	RE	RR	AREA E	2, 5, 6	
HP-EL-05	HP-6-3	FLORIDA HEAT PUMP	EP	18	WSHP	HORIZ.	745	50	0.3	0.33	-	91	-2	19.6	17.2	80	67	16.5	16.9	68	4.2	25% PG	85	45	5	15.5	265 / 1	10.1	198	RS	RR	AREA E	2, 5, 6	
HP-EL-06	HP-6-4	FLORIDA HEAT PUMP	EP	18	WSHP	HORIZ.	745	40	0.3	0.33	-	91	-2	19.6	17.2	80	67	16.5	16.9	68	4.2	25% PG	85	45	5	15.5	265 / 1	10.1	198	RS	RR	AREA E	2, 5, 6	
HP-EL-07	HP-1-2	FLORIDA HEAT PUMP	EP	42	WSHP	HORIZ.	1190	300	0.4	0.75	-	91	-2	40.1	30.7	80	67	18.1	32.2	68	4.6	25% PG	85	45	10	7.3	480 / 3	12.8	400	LS	LR	AREA E	2, 5, 6	
HP-EL-08	HP-5-1	FLORIDA HEAT PUMP	EP	30	WSHP	HORIZ.	1000	200	0.4	0.33	-	91	-2	28.1	23.7	80	67	15.7	23.9	68	4.6	25% PG	85	45	7	4.8	480 / 3	3.2	358	RE	RR	AREA E	2, 5, 6	
HP-EL-09	HP-5-2	FLORIDA HEAT PUMP	EP	30	WSHP	HORIZ.	1000	90	0.4	0.33	-	91	-2	28.1	23.7	80	67	15.7	23.9	68	4.6	25% PG	85	45	7	4.8	480 / 3	3.2	358	RS	RR	AREA E	2, 5, 6	
HP-EL-10	HP-4-4	FLORIDA HEAT PUMP	EP	36	WSHP	HORIZ.	1200	120	0.4	0.5	-	91	-2	35.6	29.2	80	67	15.5	33.2	68	4.5	25% PG	85	45	10	12.1	480 / 3	10	369	LS	LR	AREA E	2, 5, 6	
HP-ER-01	HP-2-5	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	390	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA E ROOF	1, 2, 3, 4, 5, 6	
HP-ER-02	HP-2-4	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	390	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA E ROOF	1, 2, 3, 4, 5, 6	
HP-ER-03	ER 03-6	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	2400	250	0.6	1	649	91	-2	86	59	80	67	13	78	68	4.4	25% PG	85	45	27	16	480 / 3	17	794	-	-	AREA E ROOF	1, 2, 3, 4, 5, 6	
HP-ER-04	ER 03-7	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	2400	250	0.6	1	649	91	-2	86	59	80	67	13	78	68	4.4	25% PG	85	45	27	16	480 / 3	17	794	-	-	AREA E ROOF	1, 2, 3, 4, 5, 6	
HP-ER-05	HP-2-3	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	240	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA E ROOF	1, 2, 3, 4, 5, 6	
HP-ER-06	HP-2-2	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	390	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA E ROOF	1, 2, 3, 4, 5, 6	
HP-ER-07	HP-2-1	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	730	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA E ROOF	1, 2, 3, 4, 5, 6	
HP-ER-08	HP-9	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	150	0.9	2	799	91	-2	90	67	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA E ROOF	1, 2, 3, 4, 5, 6	
																80	67																	
HP-FL-01	HP-1-2-1	FLORIDA HEAT PUMP	EP	70	WSHP	HORIZ.	1785	330	0.4	1	-	91	-2	65.5	48.3	80	67	15.9	64.5	68	4.5	25% PG	85	45	17	11.1	480 / 3	16.7	494	RS	RR	AREA F	2, 5, 6	
HP-FL-02	HP-1-4-2	FLORIDA HEAT PUMP	EP	30	WSHP	HORIZ.	1000	60	0.4	0.33	-	91	-2	28.1	23.7	80	67	15.7	23.9	68	4.6	25% PG	85	45	7	4.8	480 / 3	3.2	358	LS	LR	AREA F	2, 5, 6	
HP-FL-03	HP-1-4-1	FLORIDA HEAT PUMP	EP	30	WSHP	HORIZ.	1000	110	0.4	0.33	-	91	-2	28.1	23.7	80	67	15.7	23.9	68	4.6	25% PG	85	45	7	4.8	480 / 3	3.2	358	LS	LR	AREA F	2, 5, 6	
HP-FL-04	HP-1-5-1	FLORIDA HEAT PUMP	EP	18	WSHP	HORIZ.	745	70	0.4	0.33	-	91	-2	19.6	17.2	80	67	16.1	17	68	4.2	25% PG	85	45	5	15.5	265 / 1	10.1	198	LS	LR	AREA F	2, 5, 6	
HP-FL-05	HP-1-6-1	FLORIDA HEAT PUMP	EP	15	WSHP	HORIZ.	425	60	0.4	0.33	-	91	-2	14.4	11	80	67	15.9	12.4	68	4.1	25% PG	85	45	4	8.3	265 / 1	8.3	190	RS	RR	AREA F	2, 5, 6	
HP-FU-01	HP-1-1-1	FLORIDA HEAT PUMP	EC	96	WSHP	HORIZ.	3000	510	0.7	2	-	91	-2	99	76.6	80	67	13.7	86.8	68	4.1	25% PG	85	45	21	23.1	480 / 3	15.3	765	FRONT	REAR	AREA F	2, 3, 5, 6	
HP-FU-02	HP-1-1-2	FLORIDA HEAT PUMP	EC	96	WSHP	HORIZ.	3000	440	0.7	2	-	91	-2	99	76.6	80	67	13.7	86.8	68	4.1	25% PG	85	45	21	23.1	480 / 3	15.3	765	FRONT	REAR	AREA F	2, 3, 5, 6	
HP-FU-03	HP-1-1-3	FLORIDA HEAT PUMP	EC	96	WSHP	HORIZ.	3000	320	0.7	2	-	91	-2	99	76.6	80	67	13.7	86.8	68	4.1	25% PG	85	45	21	23.1	480 / 3	15.3	765	FRONT	REAR	AREA F	2, 3, 5, 6	
HP-G2-01	HP1-2	FLORIDA HEAT PUMP	EC	120	WSHP	HORIZ.	3400	670	0.7	3	-	91	-2	127.2	91	80	67	14.7	108.6	68	3.9	25% PG	85	45	28	19.7	480 / 3	21.9	770	FRONT	REAR	AREA G	2, 3, 5, 6	
HP-G2-02	HP2-2	FLORIDA HEAT PUMP	EP	36	WSHP	HORIZ.	1020	0	0.5	0.5	-	91	-2	34.8	26.6	80	67	16	32.7	68	4.5	25% PG	85	45	10	12.1	480 / 3	10	369	LS	LR	AREA G	2, 5, 6	
HP-GB-01	HP-G004	FLORIDA HEAT PUMP	EP	12	WSHP	HORIZ.	400	0	0.4	0.1		91	-2	12.7	10	80	67	15.2	11.8	68	4.1	25% PG	85	45	4	8.6	265 / 1	5.6	173	LS	LR	AREA G BSMT	2, 5, 6	
HP-GL-01	HP3-1	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	810	50	0.4	0.33	-	91	-2	25.6	20.3	80	67	16.2	22.8	68	4.2	25% PG	85	45	6	10.4	265 / 1	13.8	307	LS	RR	AREA G	2, 5, 6	
HP-GL-02	HP3-2	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	810	200	0.4	0.33	-	91	-2	25.6	20.3	80	67	16.2	22.8	68	4.2	25% PG	85	45	6	10.4	265 / 1	13.8	307	LS	LR	AREA G	2, 5, 6	
HP-GL-03	HP3-3	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	950	250	0.4	0.33	-	91	-2	26.1	22.4	80	67	15.7	23.1	68	4.3	25% PG	85	45	6	10.4	265 / 1	13.8	307	LE	LR	AREA G	2, 5, 6	
HP-GL-04	HP2-1	FLORIDA HEAT PUMP	EP	30	WSHP	HORIZ.	850	70	0.5	0.33	-	91	-2	27.5	21.6	80	67	15.8	23.7	68	4.5	25% PG	85	45	7	4.8	480 / 3	3.2	358	LS	LR	AREA G	2, 5, 6	
HP-GR-01	HP4-1	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	330	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA G ROOF	1, 2, 3, 4, 5, 6	
HP-GR-02	HP1-4	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	450	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA G ROOF	1, 2, 3, 4, 5, 6	
HP-GR-03	HP4-2	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	330	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA G ROOF	1, 2, 3, 4, 5, 6	
HP-GR-04	HP4-5	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	340	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA G ROOF	1, 2, 3, 4, 5, 6	
HP-GR-05	HP4-6	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	340	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA G ROOF	1, 2, 3, 4, 5, 6	
HP-GR-06	HP4-3	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	340	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA G ROOF	1, 2, 3, 4, 5, 6	
HP-GR-07	HP4-4	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	340	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA G ROOF	1, 2, 3, 4, 5, 6	
HP-GR-08	HP1-3	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	420	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA G	2, 3, 4, 5, 6	
HP-GU-01	HP1-1	FLORIDA HEAT PUMP	EC	96	WSHP	HORIZ.	3000	450	0.7	2	-	91	-2	99	76.6	80	67	13.7	86.8	68	4.1	25% PG	85	45	21	23.1	480 / 3	15.3	765	FRONT	REAR	AREA G	2, 3, 5, 6	
HP-HB-01	HP-52	FLORIDA HEAT PUMP	EP	60	WSHP	HORIZ.	1700	0	0.75	0.75	-	91	-2	60.2	45.2	80	67	14.7	54.6	68	4.4	25% PG	85	45	15	13.8	480 / 3	14.4	452	LE	LR	AREA H BSMT	2, 5, 6	
HP-HL-01	HP2-3	FLORIDA HEAT PUMP	EP	30	WSHP	HORIZ.	850	0	0.5	0.33	-	91	-2	27.5	21.6	80	67	15.8	23.7	68	4.5	25% PG	85	45	7	4.8	480 / 3	3.2	358	RS	RR	AREA H	2, 5, 6	
HP-HL-02	HP3-5	FLORIDA HEAT PUMP	EP	24	WSHP	HORIZ.	810	440	0.5	0.33	-	91	-2	25.6	20.3	80	67	15.9	22.9	68	4.2	25% PG	85	45	6	10.4	265 / 1	13.8	307	RS	RR	AREA H	2, 5, 6	
HP-HL-03	HP6-3	FLORIDA HEAT PUMP	EP	48	WSHP	HORIZ.	1360	510	0.5	0.75	-	91	-2	46.5	35.4	80	67	16.2	40.2	68	4.3	25% PG	85	45	12	17.3	480 / 3	13.1	405	LS	LR	AREA H	2, 5, 6	
HP-HL-04	HP5-2	FLORIDA HEAT PUMP	EP	15	WSHP	HORIZ.	425	30	0.4	0.33	-	91	-2	14.4	11	80	67	15.9	12.4	68	4.1	25% PG	85	45	4	8.3	265 / 1	8.3	190	LS	LR	AREA H	2, 5, 6	
HP-HL-05	HP10-4	FLORIDA HEAT PUMP	EP	15	WSHP	HORIZ.	425	60	0.4	0.33	-	91	-2	14.4	11	80	67	15.9	12.4	68	4.1	25% PG	85	45	4	8.3	265 / 1	8.3	190	RS	RR	AREA H	2, 5, 6	
HP-HR-01	HP1-5	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	470	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA H ROOF	1, 2, 3, 4, 5, 6	
HP-HR-02	HP8-1	TRANE AXIOM	GER	060	WSHP	DOWNFLOW	1650	410	0.6	1	790	91	-2	60	44	80	67	14.8	54	68	4.8	25% PG	85	45	16	17	480 / 3	13.8	704	-	-	AREA H ROOF	1, 2, 5, 6	
HP-HR-03	HP1-6	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	470	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA H ROOF	1, 2, 3, 4, 5, 6	
HP-HR-04	HP1-7	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	250	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA H ROOF	1, 2, 3, 4, 5, 6	
HP-HR-05	HP1-8	TRANE AXIOM	GER	090	WSHP	DOWNFLOW	3000	150	0.6	1	693	91	-2	89	66	80	67	13	80	68	4.4	25% PG	85	45	27	16	480 / 3	17	986	-	-	AREA H ROOF	1, 2, 3, 4, 5, 6	
HP-HU-01	HP6-1	FLORIDA HEAT PUMP	EP	42	WSHP	HORIZ.	1400	240	0.5	0.75	-	91	-2	41	33.9	80	67	17.7	33	68	4.6	25% PG	85	45	10	7.3	480 / 3	12.8	400			AREA H	2, 5, 6	
HP-HU-02	HP6-2	FLORIDA HEAT PUMP	EP	42	WSHP	HORIZ.	1400	240	0.5	0.75	-	91	-2	41	33.9	80	67	17.7	33	68	4.6	25% PG	85	45	10	7.3	480 / 3	12.8	400			AREA H	2, 5, 6	
																							85	45										
HP-IB-01	HP9-1	FLORIDA HEAT PUMP	EC	120	WSHP	VERT.	4000	90	0.6	2	-	91	-2	127	95	80	67	14.6	109.7	68	3.9	25% PG	85	45	28	19.7	208 / 3	41.3	770	TOP	REAR	AREA I BSMT	2, 3, 5, 6	
HP-IR-01	HP-7	TRANE AXIOM	GER	120	WSHP	DOWNFLOW	3800	300	0.7	3.6	1360	91	-2	136	104	80	67	15.9	104	68	4.9	25% PG	85	45	28	13	480 / 3	24.6	1192	-	-	AREA I ROOF	1, 2, 3, 4, 5, 6	

TYPE		ACCESSORIES	
ASHP	AIR SOURCE HEAT PUMP	1. DRY-BULB, ECONOMIZER 0-100%	4. WEATHERPROOF GFCI OUTLET WITH IN-USE COVERS
WSHP	WATER SOURCE HEAT PUMP	2. NON-FUSED DISCONNECT	5. 3ft STAINLESS STEEL BRAIDED HOSE
SPLIT	SPLIT SYSTEM	3. INTEGRAL RETURN SMOKE DETECTOR	6. TWO POSITION CONTROL VALVE

NOTES:
(1) MINIMUM EER AND COP AT AHRI RATED CONDITIONS
(2) UNIT CONFIGURATION IS WHEN VIEWED FROM ABOVE. LE= LEFT END SUPPLY, RE= RIGHT END SUPPLY, LS= LEFT STRAIGHT SUPPLY, RS= RIGHT STRAIGHT SUPPLY
RR= RIGHT RETURN, LR= LEFT RETURN
(3) CONTRACTOR SHALL FIELD VERIFY UNIT CONFIGURATION AND PROVIDE UNIT TO MATCH EXISTING INSTALLATION

ROOM AIRFLOW SCHEDULE

ROOM NO.	AIRFLOW	REMARKS	ROOM NO.	AIRFLOW	REMARKS
A102 - CORRIDOR	975		E143 - AIRPORT INFO	850	
A103 - SHIPPING	400		E144 - TICKET	150	
A104 - VESTIBULE	100		E145 - OPERATIONS	500	
A105 - CASH	50		F101 - TICKET LOBBY	9,000	
A106 - TICKETS	85		F102 - BUSINESS CENTER	700	
A107 - CUSTOMER SERVICE	120		F103 - CONFERENCE	700	
A108 - FREIGHT	1,600		F104 - MEDITATION ROOM	350	
A109 - PASSENGER WAITING	15,240		F106 - TICKET	200	
A117 - WOMEN	390		F107 - ROOM	75	
A119 - MEN	390		F108 - ROOM	75	
A120 - VESTIBULE	1,560		F109 - ROOM	75	
A121 - OFFICE	400		F111 - TICKET	380	
A122 - ROOM	150		F112 - OPERATIONS	100	
A123 - ROOM	100		F113 - CHECKOUT	100	
A124 - TSA BREAK	450		F114 - STAT MGR	100	
B101 - CORRIDOR	3,300		F115 - LOCKER	190	
B102 - LOUNGE	1,460		F116 - CORRIDOR	150	
B103 - LOUNGE	615		F118 - STAT MGR	100	
B105 - DELI	945		F119 - CORRIDOR	75	
B106 - RESTAURANT	3,150		F120 - OPERATIONS	200	
B108 - BANQUET/OVERFLOW	1,460		F121 - TICKET	570	
B111 - STORAGE	550		F122 - COMM	100	
B116 - WOMEN	50		F124 - OFFICE	130	
B117 - MEN	50		F125 - OFFICE	80	
B119 - OFFICE	100		F126 - OFFICE	250	
B120 - RECEIVING	200		F127 - OFFICE	180	
B123 - BAG CLAIM AREA	1,700		G101 - VESTIBULE	200	
B124 - LOBBY	6,240		G102 - VESTIBULE	400	
B125 - AGENTS AREA	300		G103 - VESTIBULE	200	
B126 - OFFICE	500		G104 - OPEN AREA	3,000	
B127 - VESTIBULE	1,560		G105 - WAITING AREA	6,000	
B128 - CONFERENCE	1,360		G106 - TICKET LOBBY	3,000	
B129 - COACH OFFICE	890		G107 - RENTAL	500	
B130 - SECURITY	150		G108 - TICKET	200	
B131 - FIRST AID	150		G109 - ROOM	200	
C101 - LOBBY	12,240		G110 - ROOM	400	
C102 - BAG CLAIM AREA	1,700		G114 - COFFEE BEANERY	500	
C104 - LOBBY	2,400		G115 - LOBBY	3,000	
C105 - GIFT SHOP	2,200		G201 - MEZZANINE	12,000	
C107 - CORRIDOR	300		H101 - VESTIBULE	850	
C108 - VISITOR CENTER	800		H102 - WOMEN	350	
C109 - VESTIBULE	1,560		H105 - MEN	350	
C110 - AGENTS AREA	300		H106 - TICKET LOBBY	13,500	
C111 - OFFICE	500		H126 - CORRIDOR	120	
C112 - AGENTS AREA	300		H129A - OFFICE	100	
C113 - OFFICE	500		H130 - CORRIDOR	240	
E101 - TICKET LOBBY	18,240		H133 - TRAINMEN	425	
E103 - SUPERVISOR	120		H134 - VESTIBULE	1,500	
E104 - STORAGE	50		H135 - TRAIN WAITING	1,000	
E105 - SECRETARY	225		H136 - NICTD TICKET	300	
E107 - SBNSZ MGR	160		H137 - CONFERENCE	800	
E108 - CONF/TRAINING	600		H140 - COMMUNICATIONS	780	
E110 - OFFICE/STOCK RM	600		H141 - CONFERENCE	520	
E111 - TICKET	450		I001 - ROOM	1,000	
E112 - CLERICAL/SALES	225		I002 - ROOM	90	
E114 - CHECKOUT	100		I105 - CONFERENCE	1,500	
E115 - LUNCH/READY	550		I105A - ENGINEERING WORKRM	1,500	
E116 - MEN LOCKER	450		I107 - CORRIDOR	100	
E119 - WOMEN LOCKER	380		I108 - LOUNGE	200	
E121 - STORAGE	200		I109 - WOMEN	30	
E122 - TICKET	300		I110 - MEN	30	
E124 - OPERATIONS	500		I111 - OFFICE	200	
E126 - TICKET	600		I112 - OFFICE	265	
E127 - AGENT CHECKOUT	200		I113 - OFFICE	200	
E127A - ROOM	200		I114 - OFFICE	220	
E129 - ROOM	200		I115 - OFFICE	180	
E131 - OPERATIONS	200		I116 - OFFICE	180	
E133 - FAMILY RESTROOM	200		I118 - CORRIDOR	125	
E134 - TOILET	200		I119 - CORRIDOR	220	
E135 - MENS	250		I120 - OFFICE	220	
E136 - JANITOR	150		I121 - OFFICE	220	
E137 - WOMEN	300		I122 - WORKROOM	220	
E139 - MEN	300		I125 - OFFICE	220	
E140 - VESTIBULE	1,560				
E141 - STORAGE	200				
E142 - OFFICE	300				

NOTES:
1. BALANCE ALL SPACES TO AIRFLOWS INDICATED. IN SPACES WITH MULTIPLE DIFFUSERS SPLIT AIRFLOW EVENLY.

INTAKE HOOD SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	INTAKE/ RELIEF	HOOD TYPE	MAXIMUM INLET VELOCITY (FPM)	CAPACITY AIRFLOW (CFM)	CAPACITY PD (IN W.C.)	NECK SIZE (LxW) (IN)	CURB HEIGHT (IN)	APPROX HEIGHT W/ CURB (IN)	DAMPER	LOCATION	REMARKS
IH-A-01	GREENHECK GRSI	INTAKE	1	550	50	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-AL-01
IH-A-02	GREENHECK GRSI	INTAKE	1	550	50	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-AL-02
IH-A-03	GREENHECK GRSI	INTAKE	1	550	250	0.05	10x10	24	38	M, PB	ROOF	SERVES HP-AL-03
IH-A-04	GREENHECK GRSI	INTAKE	1	550	60	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-AL-05
IH-B-01	GREENHECK GRSI	INTAKE	1	550	640	0.05	14x14	24	38	M, PB	ROOF	SERVES HP-BL-01 & 02
IH-B-02	GREENHECK GRSI	INTAKE	1	550	40	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-BL-03
IH-B-03	GREENHECK GRSI	INTAKE	1	550	330	0.05	10x10	24	38	M, PB	ROOF	SERVES HP-BL-04
IH-B-04	GREENHECK GRSI	INTAKE	1	550	15	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-BL-05
IH-C-01	GREENHECK GRSI	INTAKE	1	550	80	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-CL-01 & 02
IH-C-02	GREENHECK GRSI	INTAKE	1	550	640	0.05	14x14	24	38	M, PB	ROOF	SERVES HP-CL-04, 05 & 06
IH-E-01	GREENHECK GRSI	INTAKE	1	550	80	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-EL-01 & 02
IH-E-02	GREENHECK GRSI	INTAKE	1	550	250	0.05	10x10	24	38	M, PB	ROOF	SERVES HP-EL-03
IH-E-03	GREENHECK GRSI	INTAKE	1	550	200	0.05	10x10	24	38	M, PB	ROOF	SERVES HP-EL-04
IH-E-04	GREENHECK GRSI	INTAKE	1	550	90	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-EL-05 & 06
IH-E-05	GREENHECK GRSI	INTAKE	1	550	300	0.05	10x10	24	38	M, PB	ROOF	SERVES HP-EL-07
IH-E-06	GREENHECK GRSI	INTAKE	1	550	410	0.05	12x12	24	38	M, PB	ROOF	SERVES HP-EL-08, 09 & 10
IH-F-01	GREENHECK GRSI	INTAKE	1	550	840	0.05	16x16	24	38	M, PB	ROOF	SERVES HP-FL-01 & HP-FU-01
IH-F-02	GREENHECK GRSI	INTAKE	1	550	440	0.05	12x12	24	38	M, PB	ROOF	SERVES HP-FU-02
IH-F-03	GREENHECK GRSI	INTAKE	1	550	320	0.05	10x10	24	38	M, PB	ROOF	SERVES HP-FU-03
IH-F-04	GREENHECK GRSI	INTAKE	1	550	170	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-FL-02 & 03
IH-F-05	GREENHECK GRSI	INTAKE	1	550	130	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-FL-04 & 05
IH-G-01	GREENHECK GRSI	INTAKE	1	550	500	0.05	12x12	24	38	M, PB	ROOF	SERVES HP-GL-01 & HP-GU-01
IH-G-02	GREENHECK GRSI	INTAKE	1	550	450	0.05	12x12	24	38	M, PB	ROOF	SERVES HP-GL-02 & 03
IH-G-03	GREENHECK GRSI	INTAKE	1	550	70	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-GL-04
IH-G-04	GREENHECK GRSI	INTAKE	1	550	670	0.05	14x14	24	38	M, PB	ROOF	SERVES HP-G2-01
IH-H-01	GREENHECK GRSI	INTAKE	1	550	440	0.05	12x12	24	38	M, PB	ROOF	SERVES HP-HL-02
IH-H-02	GREENHECK GRSI	INTAKE	1	550	510	0.05	12x12	24	38	M, PB	ROOF	SERVES HP-HL-03
IH-H-03	GREENHECK GRSI	INTAKE	1	550	30	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-HL-04
IH-H-04	GREENHECK GRSI	INTAKE	1	550	60	0.05	8x8	24	38	M, PB	ROOF	SERVES HP-HL-05
IH-H-05	GREENHECK GRSI	INTAKE	1	550	240	0.05	10x10	24	38	M, PB	ROOF	SERVES HP-HU-01
IH-H-06	GREENHECK GRSI	INTAKE	1	550	240	0.05	10x10	24	38	M, PB	ROOF	SERVES HP-HU-02

HOOD TYPE		DAMPER			
1	DOMED	G	GRAVITY	PB	PARALLEL BLADE
2	LOUVERED	M	MOTORIZED	OB	OPPOSED BLADE
3	HOODED				

HVAC DUCT SCHEDULE

	SYSTEM	DUCT MATERIAL: SHEET MATERIAL	DUCT MATERIAL: REF STANDARD	DUCT MATERIAL: FINISH	PRESSURE CLASS	SEAL CLASS	LEAKAGE CLASS RECT.	LEAKAGE CLASS ROUND	COMMENTS
SUPPLY AIR	DUCT CONNECTED TO FAN COIL UNITS, FURNACES, HEAT PUMPS, AND TERMINAL UNITS	G90 GALVANIZED	ASTM A 653	MILL PHOSPHATIZED	3 INCHES	B	12	6	-
	DUCT CONNECTED TO OTHER FAN POWERED EQUIPMENT	G90 GALVANIZED	ASTM A 653	MILL PHOSPHATIZED	3 INCHES	B	12	6	
	HEAT PUMP DISCHARGE DUCTWORK (5FT MAXIMUM)	FIBROUS GLASS DUCT LINER	ASTM C 1070	ANTIMICROBIAL	-	-	-	-	1" THICK, PROVIDE EROSION RESISTANT COATING
RETURN AIR	DUCT CONNECTED TO FAN COIL UNITS, FURNACES, HEAT PUMPS, AND TERMINAL UNITS	G90 GALVANIZED	ASTM A 653	MILL PHOSPHATIZED	3 INCHES	B	12	6	
	DUCT CONNECTED TO OTHER FAN POWERED EQUIPMENT	G90 GALVANIZED	ASTM A 653	MILL PHOSPHATIZED	3 INCHES	B	12	6	
	HEAT PUMP RETURN PLENUMS	FIBROUS GLASS DUCT LINER	ASTM C 1070	ANTIMICROBIAL	-	-	-	-	1" THICK, PROVIDE EROSION RESISTANT COATING
OUTSIDE AIR	DUCT CONNECTED TO FAN COIL UNITS, FURNACES, HEAT PUMPS, AND TERMINAL UNITS	G90 GALVANIZED	ASTM A 653	MILL PHOSPHATIZED	3 INCHES	B	12	6	
	DUCT CONNECTED TO OTHER FAN POWERED EQUIPMENT	G90 GALVANIZED	ASTM A 653	MILL PHOSPHATIZED	3 INCHES	B	12	6	
	FIRST 3 FEET FROM LOUVER/HOOD	PVC-COATED GALV.	ASTM A 653	4 MIL PVC	3 INCHES	B	12	6	SEAL LIQUID-TIGHT. SLOPE TOWARD LOUVER.
TRANSFER		G90 GALVANIZED	ASTM A 653	MILL PHOSPHATIZED	1 INCH	B	12	6	

FITTINGS

RECTANGULAR DUCT ELBOWS (COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-2, "RECTANGULAR ELBOWS.")
- RADIUS TYPE RE 1 WITH MINIMUM 1.5 RADIUS-TO-DIAMETER RATIO.
- RADIUS TYPE RE 3 WITH MINIMUM 1.0 RADIUS-TO-DIAMETER RATIO AND TWO VANES
- MITERED TYPE RE 2 WITH VANES COMPLYING WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-3, "VANES AND VANE RUNNERS," AND FIGURE 2-4, "VANE SUPPORT IN ELBOWS."

ROUND DUCT ELBOWS (COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 3-3, "ROUND DUCT ELBOWS.")
- RADIUS TO DIAMETER RATIO: 1.5
- ROUND ELBOWS, 12 INCHES AND SMALLER IN DIAMETER: STAMPED OR PLEATED.
- ROUND ELBOWS, 14 INCHES AND LARGER IN DIAMETER: WELDED

RECTANGULAR BRANCH DUCT CONFIGURATION (COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-6, "BRANCH CONNECTIONS.")
- RECTANGULAR MAIN TO RECTANGULAR BRANCH: 45-DEGREE ENTRY
- RECTANGULAR MAIN TO ROUND BRANCH: SPIN IN

ROUND BRANCH DUCT CONFIGURATION (COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 3-4, "90 DEGREE TEES AND LATERALS," AND FIGURE 3-5, "CONICAL TEES." SADDLE TAPS ARE PERMITTED IN EXISTING DUCT)
- VELOCITY 1500 FPM AND LOWER: CONICAL TAP
- VELOCITY GREATER THAN 1500 FPM: 45-DEGREE LATERAL

REMARKS
1) PROVIDE PAINT GRIP TYPE DUCT WHERE DUCT IS EXPOSED AND INDICATED TO BE PAINTED
2) INSTALL DUCT ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" UNLESS OTHERWISE INDICATED
3) INTERMEDIATE REINFORCEMENT MATERIAL SHALL MATCH DUCT MATERIAL
4) SUPPLY AIR DUCTS PASSING THROUGH UNCONDITIONED OR OUTDOOR SPACES SHALL BE SEAL CLASS A (ASHRAE 90.1 - 2007)
5) RETURN AIR DUCTS PASSING THROUGH OUTDOOR SPACES SHALL BE SEAL CLASS A (ASHRAE 90.1 - 2007)
6) SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.

HVAC DUCT INSULATION SCHEDULE

INDOORS OR OUTDOORS	CONCEALED OR EXPOSED	DUCT SHAPE	DUCT SERVICE	INSULATION TYPE	INSULATION THICKNESS (IN)	JACKETING TYPE	REMARKS
INDOORS	CONCEALED	SQUARE	SUPPLY AIR	D1, D2	1 1/2	J1	-
			RETURN AIR	D1, D2	1 1/2	J1	-
			OUTSIDE AIR	D1, D2	3	J1	-
			EXHAUST AIR	D1, D2	1	J1	-
		ROUND	SUPPLY AIR	D1	1 1/2	J1	-
			RETURN AIR	D1	1 1/2	J1	-
			OUTSIDE AIR	D1	3	J1	-
			EXHAUST AIR	D1	1	J1	-
	EXPOSED	SQUARE	SUPPLY AIR	D1, D2	1 1/2	J1	-
			RETURN AIR	D1, D2	1 1/2	J1	-
			OUTSIDE AIR	D1, D2	3	J1	-
			EXHAUST AIR	D1, D2	1	J1	-
		ROUND	SUPPLY AIR	D1	1 1/2	J1	-
			RETURN AIR	D1	1 1/2	J1	-
			OUTSIDE AIR	D1	3	J1	-
			EXHAUST AIR	D1	1	J1	-

INSULATION TYPE

D1 MINERAL FIBER BLANKET (ASTM C 553 TYPE II) (ASTM C 1290 TYPE III)
AVAIL. MFR'S: CERTAINTEED CORP: DUCT WRAP
JOHNS MANVILLE; MICROLITE
KNAUF INSULATION; DUCT WRAP
OWENS CORNING; ALL-SERVICE DUCT WRAP

D2 MINERAL FIBER BOARD (ASTM C 612 TYPE 1A OR 1B)
AVAIL. MFR'S: CERTAINTEED CORP.; COMMERCIAL BOARD.
JOHNS MANVILLE; 800 SERIES SPIN-GLAS
KNAUF INSULATION; INSULATION BOARD.
OWENS CORNING; FIBERGLAS 700 SERIES.

JACKETING TYPE

J1 FACTORY APPLIED FSK

Mead & Hunt
Mead & Hunt, Inc.
6501 Watts Road
Madison, WI 53719
phone: 608-273-6380
meadhunt.com

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10/7/14

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south bend INTERNATIONAL

St. Joseph County Airport Authority
South Bend International Airport (SBN) HVAC Replacement

4477 Progress Drive
South Bend, IN. 46628

ISSUED
10/10/14 Issued For Construction

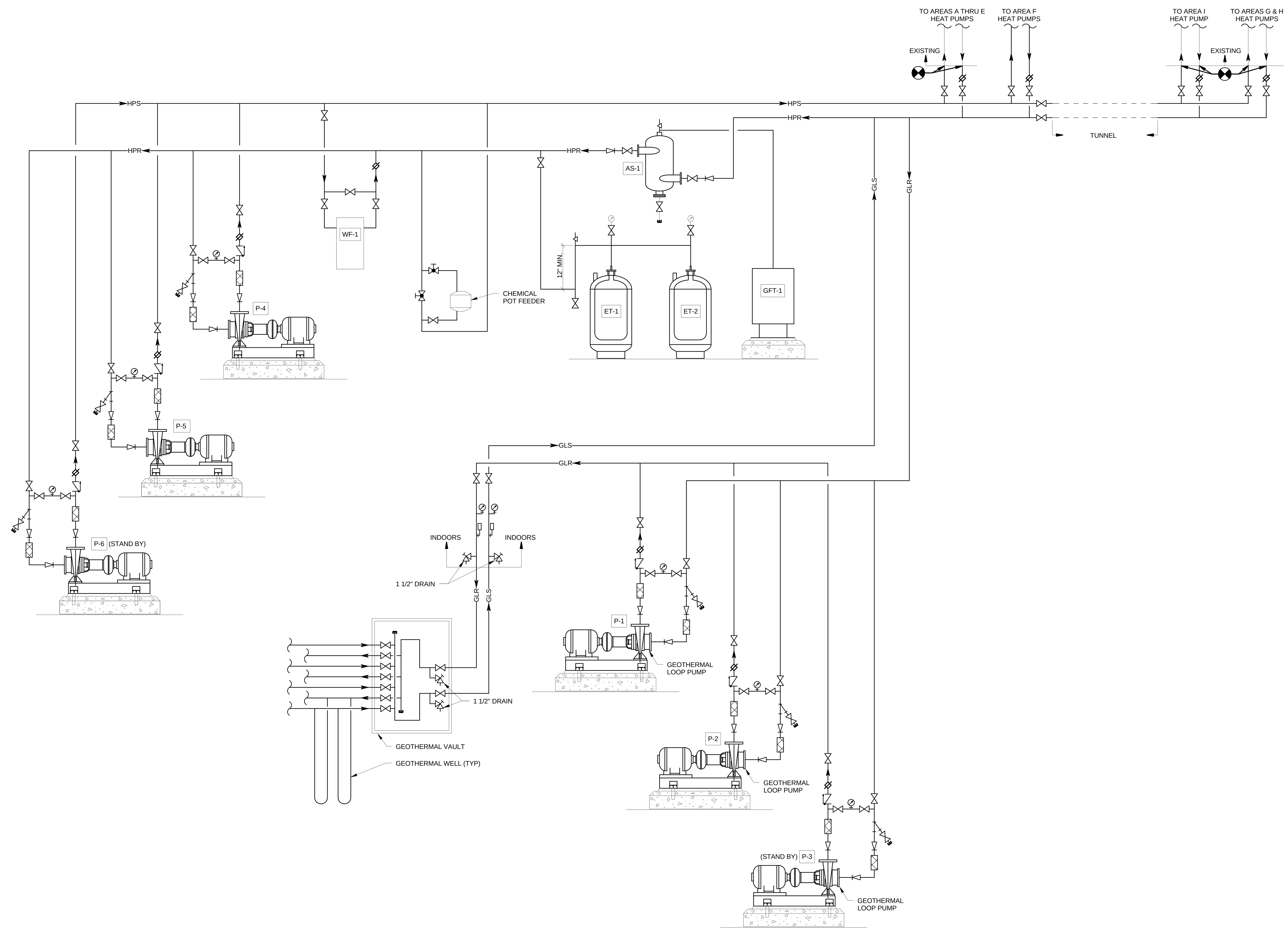
AIP NO.: 3-18-0079-046
M&H NO.: 2892200-132107.01
DATE: October 10, 2014
DESIGNED BY: AMT
DRAWN BY: RRW
CHECKED BY: SNW

DO NOT SCALE DRAWINGS

SHEET CONTENTS
MECHANICAL HVAC SCHEDULES

SHEET NO.:
M-601

10/6/2014 10:57:02 AM C:\Revit Local\2892200-132107.01 MEP-CENTRAL-2014_1244njb.rvt



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sbn south bend INTERNATIONAL

St. Joseph County Airport Authority
South Bend International Airport (SBN) HVAC Replacement

4477 Progress Drive
South Bend, IN. 46628

ISSUED
10/10/14 Issued For Construction

AIP NO.: 3-18-0079-046
M&H NO.: 2892200-132107.01
DATE: October 10, 2014
DESIGNED BY: AMT
DRAWN BY: RRW
CHECKED BY: SNW

DO NOT SCALE DRAWINGS

SHEET CONTENTS
PROPOSED SYSTEM DIAGRAM

SHEET NO.:
M-701

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