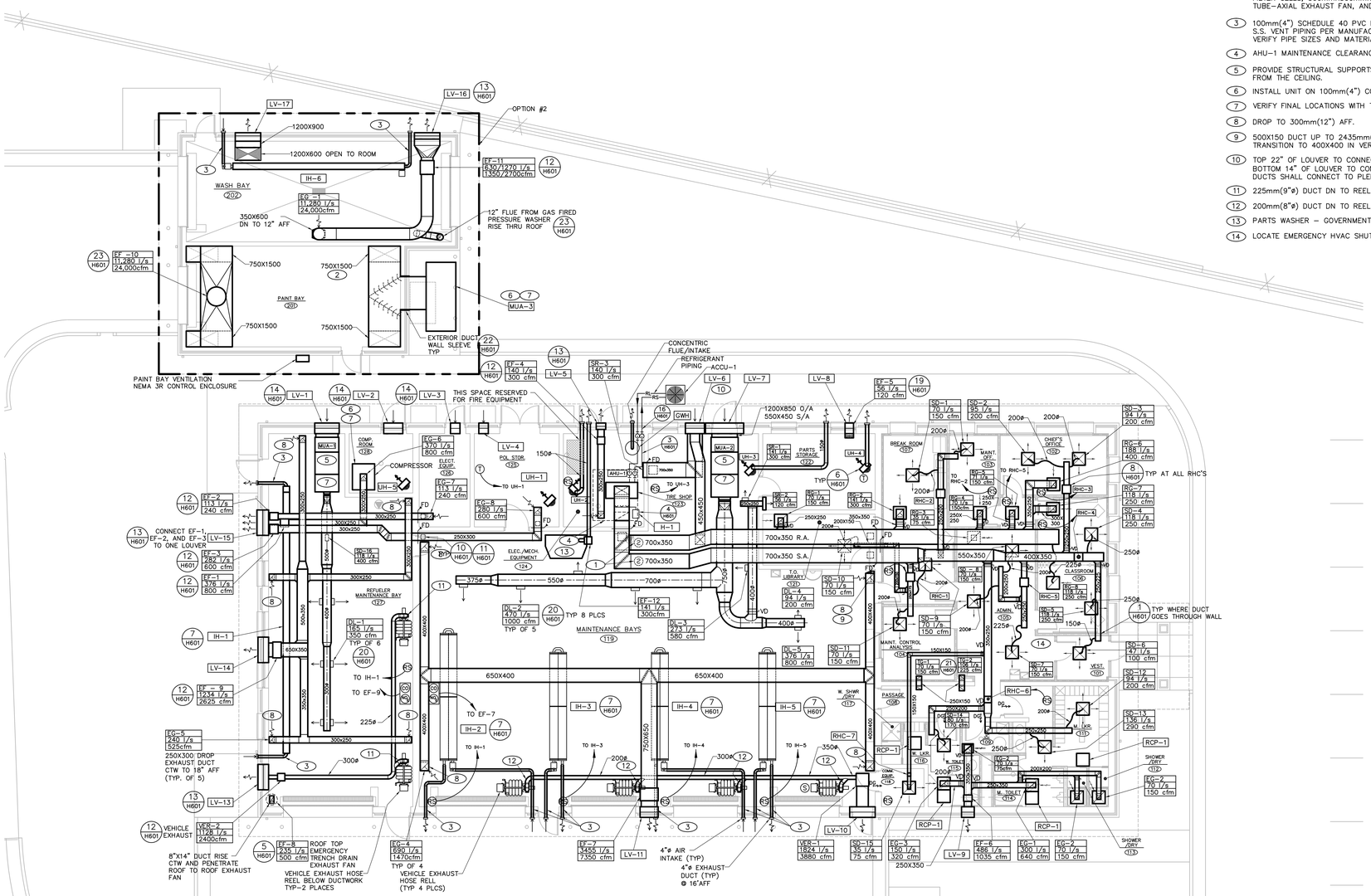
KEYED NOTES:

1. PROVIDE DUCT SMOKE DETECTOR WITH MANUAL RESET IN BOTH S.A. AND R.A. DUCTWORK. PROVIDE REMOTE TEST SWITCH TO BE INSTALLED AT 2.1M (7ft) AFF WITH LED FOR MAINTENANCE AND ALARM FUNCTIONS.
2. THE FULLY ENCLOSED PAINT ROOM SHALL BE POWER VENTILATED AND INCLUDE A DIRECT FIRED 100% MAKE UP AIR UNIT WITH BRIDGE TYPE SUPPLY AIR PLENUM, 500mmX500mmX75mm(20"X20"X3") INTAKE FILTER CELLS, SI UNITS PROCEED 500mmX500mmC25mm (20"X20"X1") INTAKE FILTERS WITH BUILT-IN GRIDS, BRIDGE TYPE EXHAUST CHAMBER WITH 500mmX500mmX75mm(20"X20"X3") EXHAUST FILTER CELLS, 500mmX500mmX50mm(20"X20"X2") EXHAUST FILTERS, TUBE-AXIAL EXHAUST FAN, AND FLOURESCENT LIGHTING FIXTURES.
3. 100mm(4") SCHEDULE 40 PVC INTAKE PIPING AND 100mm(4") S.S. VENT PIPING PER MANUFACTURERS RECOMMENDATIONS. VERIFY PIPE SIZES AND MATERIALS WITH HEATER MANUFACTURER.
4. AHU-1 MAINTENANCE CLEARANCE AREA.
5. PROVIDE STRUCTURAL SUPPORTS NECESSARY TO MOUNT EQUIPMENT FROM THE CEILING.
6. INSTALL UNIT ON 100mm(4") CONCRETE HOUSEKEEPING PAD BY G.C.
7. VERIFY FINAL LOCATIONS WITH THE CONTRACTING OFFICER.
8. DROP TO 300mm(12") AFF.
9. 500X150 DUCT UP TO 2435mm(8') AFF. TRANSITION TO 400X400 IN VERTICAL.
10. TOP 22" OF LOUVER TO CONNECT TO 450X450 DUCT TO AUH-1 SYSTEM. BOTTOM 14" OF LOUVER TO CONNECT TO 700X350 DUCT TO MECH ROOM. DUCTS SHALL CONNECT TO PLENUMS WITH BELLMOUTH FITTINGS.
11. 225mm(9"ø) DUCT DN TO REEL DISCHARGE PROVIDE TRANSITION DUCT AS REQ'D.
12. 200mm(8"ø) DUCT DN TO REEL DISCHARGE PROVIDE TRANSITION DUCT AS REQ'D.
13. PARTS WASHER – GOVERNMENT FURNISHED, CONTRACTOR INSTALLED.
14. LOCATE EMERGENCY HVAC SHUTOFF PUSH BUTTON IN RM105.



MECHANICAL HVAC - VEHICLE MAINTENANCE BUILDINGS

0 5000 10000
SCALE IN MILLIMETERS
8' 0' 8' 16'
SCALE IN FEET
NORTH

EQUIVALENT ENGLISH DUCT SIZES					
METRIC (mm)	ENGLISH (N)	METRIC (mm)	ENGLISH (N)	METRIC (mm)	ENGLISH (N)
100	4	1350	54	2640	104
150	6	1400	56	2690	106
200	8	1450	58	2740	108
250	10	1500	60	2790	110
300	12	1575	62	2840	112
350	14	1625	64	2890	114
400	16	1675	66	2940	116
450	18	1725	68	2990	118
500	20	1775	70	3050	120
550	22	1825	72	3100	122
600	24	1875	74	3150	124
650	26	1925	76	3200	126
700	28	1975	78	3250	128
750	30	2025	80	3300	130
800	32	2075	82	3350	132
850	34	2125	84	3400	134
900	36	2175	86	3450	136
950	38	2225	88	3500	138
1000	40	2275	90	3550	140
1050	42	2325	92	3600	142
1100	44	2375	94	3660	144
1150	46	2425	96	3710	146
1200	48	2475	98	3760	148
1250	50	2525	100	3810	150
1300	52	2590	102	3860	152

REVISIONS		
REV	DATE	DESCRIPTION

detailed	JET	
checked	JMM	
COORDINATION		
SAFETY	FIRE CHIEF	
USING AGENCY	BIOENVIRONMENTAL	
BASE COMMANDER	BASE CIVIL ENGINEER	CHIEF ENGINEER
COMMUNICATIONS		

date	3-14-03
designed	WFH

Ohio Air National Guard
Mansfield-Lahm Municipal Airport
REPLACE VEHICLE MAINTENANCE FACILITY
PBXP000650

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MECHANICAL - HVAC PLAN

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drawing	rev.
H101	-
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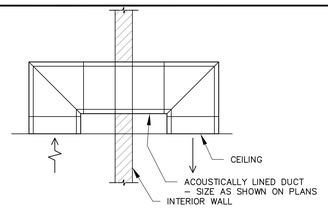
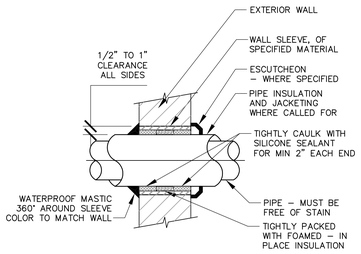
Scale For Microfilming
Millimeters
Inches

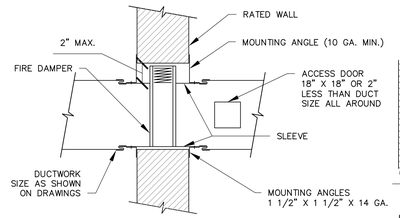


21 H601 TRANSFER DUCT DETAIL
SCALE: NO SCALE 15810

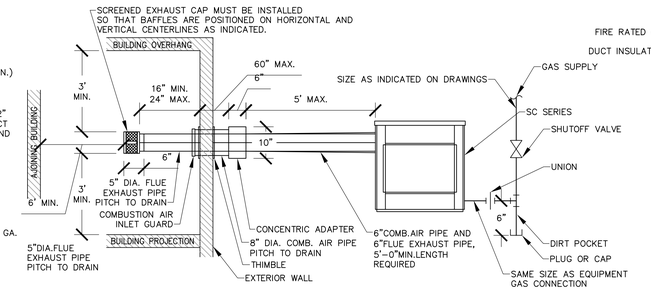
NOTE:
COVER PANELS ON NON-PROCESS ROOM SIDE OF WALL MAY BE MIN. 20 GAGE GALVANIZED STEEL WITH GALVANIZED FASTENERS AND ANCHORS.



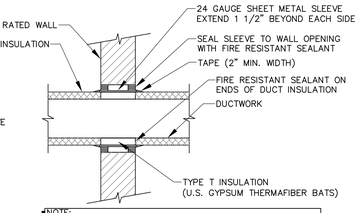
16 H601 EXTERIOR WALL PIPE SLEEVE DETAIL
SCALE: NO SCALE 15060



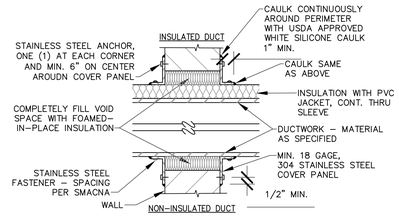
11 H601 VERTICAL FIRE DAMPER DETAIL
SCALE: NO SCALE 15820



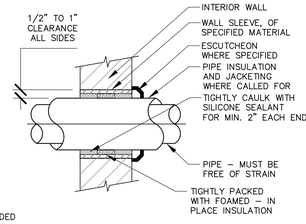
6 H601 SEALED COMBUSTION GAS-FIRED UNIT HEATER DETAIL
SCALE: NO SCALE 15760



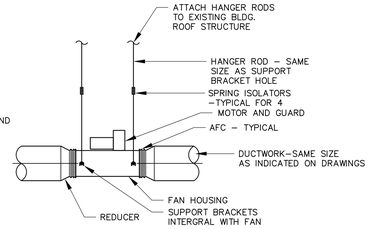
NOTE:
1. THIS DETAIL APPLIES ONLY FOR INSULATED DUCTS REQUIRING CONTINUOUS INSULATION THRU WALL, AND DUCTS NOT REQUIRING FIRE DAMPERS.



22 A6.01 DUCT SLEEVE THRU WALL DETAIL
SCALE: NO SCALE 15060

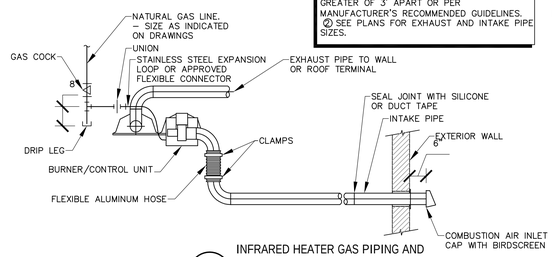


17 H601 INTERIOR WALL PIPE SLEEVE DETAIL
SCALE: NO SCALE 15060

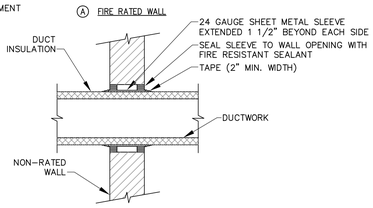


12 H601 INLINE FAN DETAIL
SCALE: NO SCALE 15830

NOTE:
① SPACING OF COMBUSTION AIR INLET CAP AND EXHAUST TERMINAL SHALL BE THE GREATER OF 3' APART OR PER MANUFACTURER'S RECOMMENDED GUIDELINES.
② SEE PLANS FOR EXHAUST AND INTAKE PIPE SIZES.

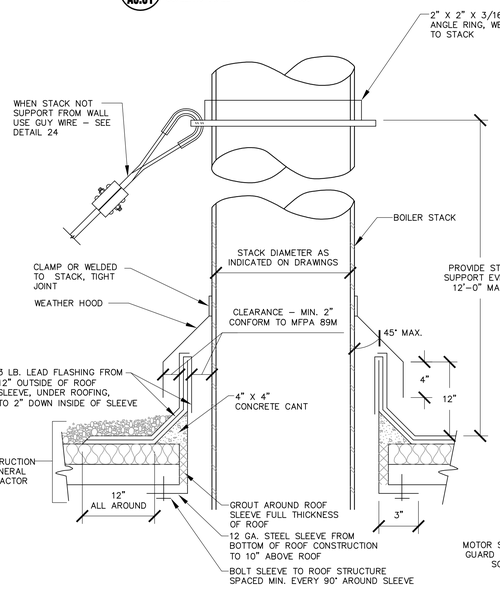


7 H601 INFRARED HEATER GAS PIPING AND COMBUSTION/EXHAUST AIR DUCTING
SCALE: NO SCALE 15760

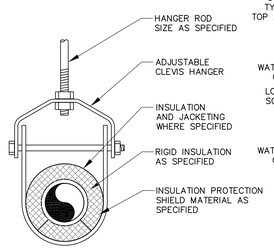


Ⓐ FIRE RATED WALL
Ⓑ NON–RATED WALL

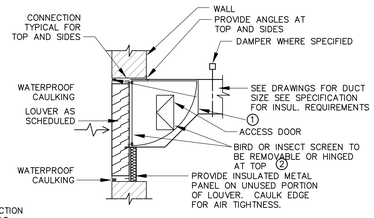
1 H601 DUCT PENETRATION THRU INTERIOR WALL DETAIL
SCALE: NO SCALE 15060



23 H6.01 BOILER STACK THRU ROOF
NO SCALE 15570.STACK01



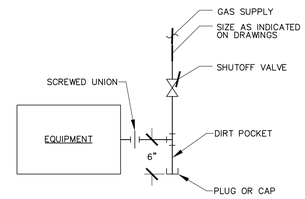
18 H601 CLEVIS PIPE HANGER DETAIL
SCALE: NO SCALE 15060



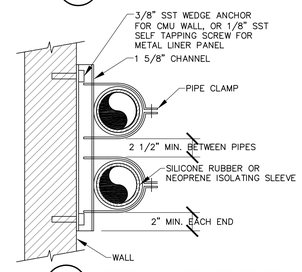
NOTES:
① USE PVC COATED METALIC DUCT FOR BOTTOM OF OUTSIDE AIR INTAKE DUCT FROM LOUVER TO THIS POINT.
② PROVIDE BIRD SCREEN WHERE FILTER IS SPECIFICIED PROVIDE INSECT SCREEN WHERE NO FILTER IS SPECIFIED.

13 H601 DUCT CONNECTION TO LOUVER
SCALE: NO SCALE 15850

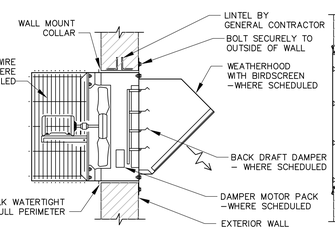
8 H601 REHEAT COIL DUCT CONNECTION DETAIL
SCALE: NO SCALE 15810



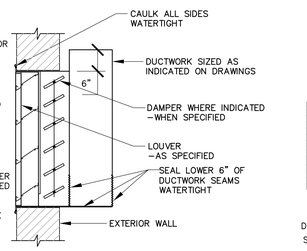
2 H601 TYPICAL GAS CONNECTION
SCALE: NO SCALE 15510



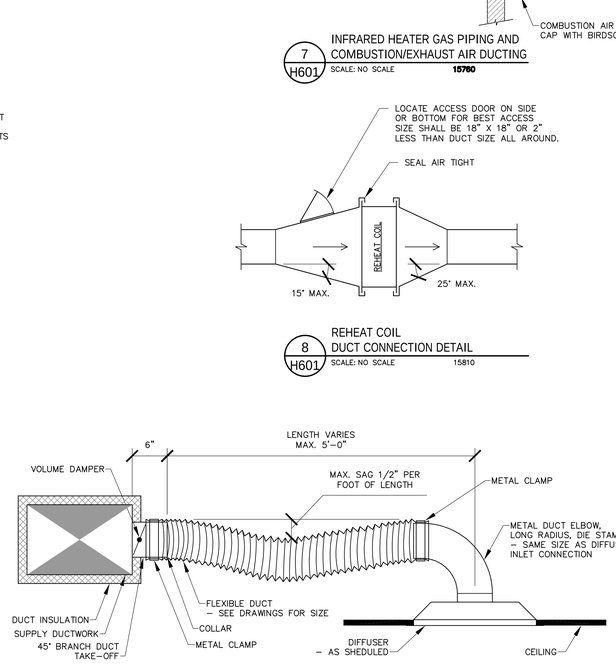
3 H601 EXPOSED WALL PIPE SUPPORT DETAIL
SCALE: NO SCALE 15060



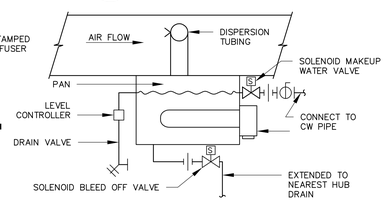
19 H601 SIDEWALL PROPELLER
SCALE: NO SCALE 15830



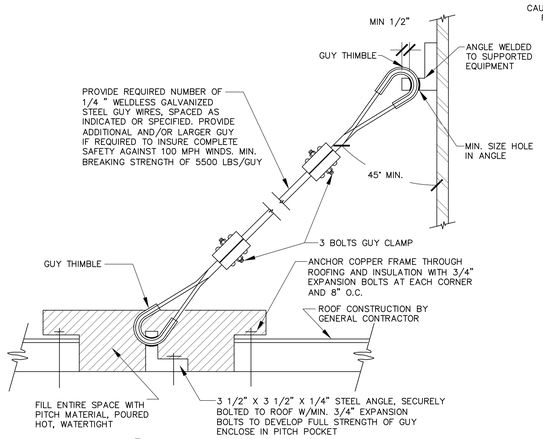
14 H601 LOUVER THRU EXTERIOR WALL DETAIL
SCALE: NO SCALE 15850



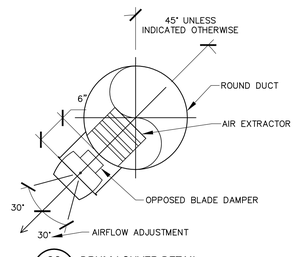
9 H601 FLEXIBLE DUCTWORK TO CEILING DIFFUSER
SCALE: NO SCALE 15810



4 H601 DUCT MOUNTED ELECTRIC HUMIDIFIER
SCALE: NO SCALE 15750.DCTHM01



24 H6.01 GUY WIRE
NO SCALE 15060.GUYWR01



20 H601 DRUM LOUVER DETAIL
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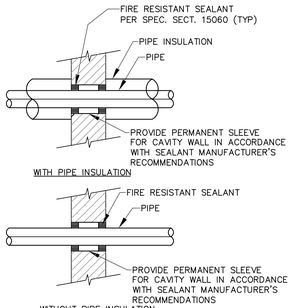
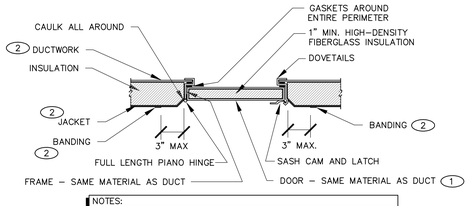
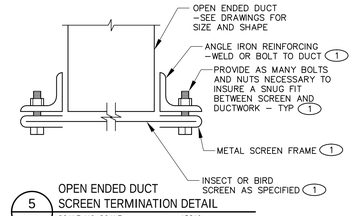


15 H601 PIPE THROUGH FIRE RATED INTERIOR WALL DETAIL
SCALE: NO SCALE 15060



NOTES:
1 FOR MIN. GAUGES, REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
2 SEE SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS

10 H601 HINGE ACCESS DOOR FOR INSULATED RECTANGULAR DUCT
SCALE: NO SCALE 15820



5 H601 OPEN ENDED DUCT SCREEN TERMINATION DETAIL
SCALE: NO SCALE 15810

NOTES:
1 MATERIALS OF CONSTRUCTION SHALL BE SIMILAR TO OPEN ENDED DUCT. (i.e. STAINLESS STEEL COMPONENTS FOR STAINLESS STEEL DUCT.)

REV.	DATE	DESCRIPTION	INIT

REVISIONS

COORDINATION: FIRE CHIEF, BIOENVIRONMENTAL, SAFETY, USING AGENCY, COMMUNICATIONS, BASE COMMANDER, BASE CIVIL ENGINEER, CHIEF ENGINEER

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Scale For Microfilming
Millimeters
Inches

INFRARED HEATERS (IH) SCHEDULE

15760 (SI)

MARK	MANUFACTURER, MODEL NUMBER	TYPE	HEATING CAPACITY kW	HEATING CAPACITY MBH	FUEL TYPE	FUEL INLET PRESSURE Pa	FUEL INLET PRESSURE IN. WG	(1) MOUNTING HEIGHT M	(1) MOUNTING HEIGHT FT	ELECTRICAL (VOLTS/PH)	LOCATION	REMARKS
IH-1	AMBI RAD, ER 38-S40	2	38	130	NG	2490	10	4	14	120/1	127	-
IH-2	AMBI RAD, ER 29-U35	2	29	100	NG	2490	10	4	14	120/1	119	-
IH-3	AMBI RAD, ER 22-U30	1	22	75	NG	2490	10	4	14	120/1	119	-
IH-4	AMBI RAD, ER 22-U30	1	22	75	NG	2490	10	4	14	120/1	119	-
IH-5	AMBI RAD, ER 22-U30	1	22	75	NG	2490	10	4	14	120/1	119	-
IH-6	AMBI RAD, ER 22-S25	2	22	75	NG	2490	10	4	14	120/1	202	-

TYPE
1 U-TUBE
2 STRAIGHT TUBE
3 PRESSURIZED
4 VACUUM VENTED

REMARKS:
(1) MOUNTING HEIGHT IS TO BOTTOM OF UNIT AND IS APPROXIMATE. MECHANICAL CONTRACTOR SHALL FIELD VERIFY MANUFACTURES CLEARANCES.
(2) INSTALL REFLECTORS AT 45° ANGLE INTO BUILDING.

NOTES:
1. OUTDOOR PORTIONS (ENCLOSURES & ETC.) OF EQUIOPMENT SHALL BE A DARK BRONZE FINISH.

AIR HANDLING UNIT (AHU) SCHEDULE

15720 (SI)

MARK	MANUFACTURER, MODEL NUMBER	TYPE	SUPPLY AIR FLOW L/S	SUPPLY AIR FLOW CFM	OUTDOOR AIR FLOW L/S	OUTDOOR AIR FLOW CFM	TOTAL STATIC PRESSURE Pa	TOTAL STATIC PRESSURE IN. WG	EXTERNAL STATIC PRESSURE SUPPLY Pa	EXTERNAL STATIC PRESSURE SUPPLY IN. WG	EXTERNAL STATIC PRESSURE RETURN Pa	EXTERNAL STATIC PRESSURE RETURN IN. WG	FAN MOTOR SUPPLY kW	FAN MOTOR SUPPLY HP	FAN MOTOR SUPPLY RPM	FAN MOTOR RETURN kW	FAN MOTOR RETURN HP	FAN MOTOR RETURN RPM	ELECTRICAL (VOLTS/PHASE)	MINIMUM CIRCUIT AMPACITY	MAXIMUM FUSE BREAKER SIZE (A)	HEATING COIL MARK	COOLING COIL MARK	FUEL TYPE	(1) ACCESSORIES	(2) MOUNTING HEIGHT (FT)	LOCATION	REMARKS
AHU-1	TRANE TWE 090A3	I	1380	2935	570	1210	365	1.46	130	0.52	0	0	1.5	2	1009	–	–	–	208/3	7	15	–	–	ELECTRIC	DISCONNECT	FLOOR	124	–

TYPE
CS CENTRAL STATION
PRT PACKAGED ROOFTOP
C CUSTOM
IF INDIRECT FIRED
DF DIRECT FIRED
I INDOOR
O OUTDOOR
D DOWNFLOW
H HORIZONTAL
U UPFLOW

ACCESSORIES
1 INTAKE HOOD
2 INLET DAMPER
3 DISCHARGE DAMPER
4 ROOF CURB
5 DOUBLE WALL
6 PRE-FILTER MIXING SECTION
7 PRE-FILTER SECTION
8 FINAL FILTER SECTION
9 ENERGY RECOVERY SECTION
10 ECONOMIZER SECTION
11 HUMIDIFIER SECTION
12 AIR BLENDER SECTION
13 DISCHARGE PLENUM SECTION
14 COIL GUARDS

REMARKS:
(1) SEE SPECIFICATION SECTION 15855 FOR ANY ADDITIONAL ACCESSORIES/OPTIONS.
(2) MOUNTING HEIGHT SHALL BE FROM FINISHED FLOOR TO TOP OF UNIT.
(3) EXISTING UNIT(s) SHALL BE RE-BALANCED TO SCHEDULED CAPACITIES.

VEHICLE EXHAUST REEL (VER) SYSTEM SCHEDULE

15830 (SI)

MARK	MFGR., FAN/REEL/TUBING MODEL No.	FAN TYPE	FAN AIR FLOW L/S	FAN AIR FLOW CFM	FAN S.P. Pa	FAN S.P. IN. WG	FAN MOTOR kW	FAN MOTOR HP	SPEED (RPM)	ELECTRICAL (VOLTS/PH)	TUBING DIAMETER MM	TUBING DIAMETER IN	TUBING LENGTH M	TUBING LENGTH FT	DRUM OPERATOR	DRUM MOUNTING	DRUM DRIVE MOTOR VOLTS/PH	DRUM DRIVE MOTOR kW	DRUM DRIVE MOTOR HP	(1) INTERLOCK FAN WITH	ACCESSORIES	(2)(3) MOUNTING HEIGHT M	(2)(3) MOUNTING HEIGHT FT	LOCATION	REMARKS
VER-1	CARMON TSR-W32	2	1825	3880	1000	4	3.7	5	1790	208/3	150	6	7.5	25	-	CLG	120/1	-	-	-	2, 5	4	12	119	4 HOSE REELS
VER-2	CARMON TSR-32	2	1130	2400	500	2	1.5	2	2880	208/3	150	6	7.5	25	-	CLG	120/1	-	-	-	2, 5	4	12	127	2 HOSE REELS

TYPE
1 FLANGE MOUNTED, DIRECT DRIVE
2 UTILITY SET, BELT DRIVE (SEE EF SCHEDULE FOR SPECS.)

DRUM OPERATOR
MD MOTOR DRIVEN
MN MANUAL CABLE WINCH
SL SPRING LOADED LATCH

DRUM MOUNTING
WALL WALL MOUNTED
CLG CEILING MOUNTED
BOOM BOOM MOUNTED

ACCESSORIES
1 PNEUMATIC EXHAUST PIPE GRABBER
2 MAGNETIC EXHAUST PIPE GRABBER
3 MECHANICAL EXHAUST PIPE GRABBER
4 EXHAUST NOZZLE WITH DAMPER
5 WALL MOUNTED REEL DRIVE SWITCH
6 WIRELESS REEL DRIVE REMOTE
7 PENDANT REEL DRIVE REMOTE

REMARKS:
(1) SEE SEQUENCE OF OPERATION SPECIFICATION SECTION.
(2) MOUNTING HEIGHT IS FROM FINISHED FLOOR LEVEL TO BOTTOM OF REEL.
(3) CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO ENGINEER SHOWING PROPOSED STRUCTURAL MOUNTING ARRANGEMENT PRIOR TO INSTALLATION.

MAKE UP AIR UNIT (MUA) SCHEDULE

15720(SI)

MARK	MANUFACTURER, MODEL NUMBER	TYPE	CAPACITY KW	CAPACITY MBH	AIR FLOW L/S	AIR FLOW CFM	GAS L/HR	GAS CU.FT/HR	MOTOR KW	MOTOR HP	ELECTRICAL (VOLTS/PHASE)	ENTERING AIR TEMPERATURE °C	ENTERING AIR TEMPERATURE °F	LEAVING AIR TEMPERATURE °C	LEAVING AIR TEMPERATURE °F	ACCESSORIES	MOUNTING HT M	MOUNTING HT FT	LOCATION	REMARKS
MUA-1	TRANE, DFIA-109	H	60	205	1175	2500	–	205	1.5	2	208/3	-15	5	24	75	3	(4)	(4)	127	(2)(3)
MUA-2	TRANE, DFIA-118	H	168	575	3290	7000	–	575	3.7	5	208/3	-15	5	24	75	3	(4)	(4)	119	(2)(3)
MUA-3	TRANE DFOA	V	532	1814	11,280	24,000	–	2536	14.9	20	208/3	-15	5	24	75	3	(4)	(4)	201	(1)(2)(3)

TYPE
H HORIZONTAL
V VERTICAL
LT LONG THROW
S SEPARATED COMBUSTION
GV GRAVITY VENT
PV POWER VENT
EX EXPLOSION PROOF (SEE REMARKS FOR POWER REQUIREMENTS)

ACCESSORIES
1 CONCENTRIC VENT ASSEMBLY
2 DOWN TURN AIR NOZZLE
3 STAINLESS STEEL HEAT EXCHANGER
4 STAINLESS STEEL BURNER

REMARKS:
(1) OUTDOOR UNIT
(2) SEE SPECIFICATION SECTION FOR ANY ADDITIONAL ACCESSORIES/OPTIONS.
(3) PROVIDE DISCONNECT
(4) MOUNT AS HIGH AS POSSIBLE CLOSE TO CEILING. MINIMUM HEIGHT FOR INDOOR UNITS IS 2438mm (8') AFF TO COMPLY WITH NATIONAL FUEL GAS CODE AND INTERNATIONAL MECHANICAL CODE.

NOTES:
1. OUTDOOR PORTIONS (ENCLOSURES & ETC.) OF EQUIOPMENT SHALL BE A DARK BRONZE FINISH.

UNIT HEATER (UH) AND RADIANT CEILING PANEL (RCP) SCHEDULE

15760 (SI)

MARK	MANUFACTURER, MODEL NUMBER	TYPE	AIR FLOW L/S	AIR FLOW CFM	AIR THROW M	AIR THROW FT	MOTOR kW	MOTOR HP	ELECTRICAL (VOLTS/PH)	EAT C	EAT F	LAT C	LAT F	FUEL FIRED TYPE	FUEL FIRED INPUT kW	FUEL FIRED INPUT MBH	FUEL FIRED OUTPUT kW	FUEL FIRED OUTPUT MBH	(2) ACCESSORIES	(1) MOUNTING HEIGHT M	(1) MOUNTING HEIGHT FT	LOCATION	REMARKS
UH-1	TRANE, UHXA	EX	708	1500	1202	40	.186	1/4	208/3	–	–	–	–	ELEC	10	34	10	34	–	3	10	125	EXPLOSION PROOF
UH-2	TRANE, GPND-003	H	.354	750	–	–	.025	1/30	120/1	–	–	–	–	NG	8.8	30	7	24	1	3	10	124	–
UH-3	TRANE, GPND-003	H	.354	750	–	–	.025	1/30	120/1	–	–	–	–	NG	8.8	30	7	24	1	3	10	123	–
UH-4	TRANE, GPND-003	H	.354	750	–	–	.025	1/30	120/1	–	–	–	–	NG	8.8	30	7	24	1	3	10	122	–
UH-5	TRANE, UHCA 021A7A	V, E	–	–	–	–	–	–	208/1	–	–	–	–	ELEC	2	6.3	2	6.3	–	3	10	128	–
RCP-1	RADIANT ELECTRIC HEAT	E	–	–	–	–	–	–	12/1	–	–	–	–	ELEC	0.30	1	0.30	1	–	CLG	CLG	111,114 115,116	CEILING MOUNT

TYPE
H HORIZONTAL
V VERTICAL
LT LONG THROW
S SEPARATED COMBUSTION
E ELECTRIC
GV GRAVITY VENT
PV POWER VENT
EX EXPLOSION PROOF (SEE REMARKS FOR POWER REQUIREMENTS)

ACCESSORIES
1 CONCENTRIC VENT ASSEMBLY
2 DOWN TURN AIR NOZZLE
3 STAINLESS STEEL HEAT EXCHANGER
4 STAINLESS STEEL BURNER
5 MFR.SUPPLIED MOUNTING HARDWARE

REMARKS:
(1) MOUNTING HEIGHT SHALL BE TO BOTTOM OF UNIT HEATER.
(2) SEE SPECIFICATION SECTION FOR ANY ADDITIONAL ACCESSORIES/OPTIONS.
* OUTDOOR PORTIONS (ENCLOSURES & ETC.) OF EQUIPMENT SHALL BE A DARK BRONZE FINISH

EXHAUST FAN (EF) SCHEDULE

15830 (SI)

MARK	MANUFACTURER, MODEL NUMBER	FAN TYPE	AIR FLOW L/S	AIR FLOW CFM	S.P. Pa	S.P. IN.WG	MOTOR kW	MOTOR HP	MOTOR TYPE	FAN (RPM)	DRIVE TYPE	ELECTRICAL (VOLTS/PH)	(1) ACCESSORIES	(2) INTERLOCKW	(3) MTG. HGT. M	(3) MTG. HGT. FT	OPENING MM	OPENING IN	LOCATION	REMARKS
EF-1	GREENHECK BSQ-90-4	2	376	800	95	.375	0.19	1/4	ODP	853	BELT	120/1	1	–	–	–	–	–	128	–
EF-2	GREENHECK BSQ-70-4	2	113	240	95	.375	0.19	1/4	ODP	2326	BELT	120/1	1	–	–	–	–	–	126	–
EF-3	GREENHECK BSQ-80-4	2	282	600	95	.375	0.19	1/4	ODP	1738	BELT	120/1	1	–	–	–	–	–	125	–
EF-4	GREENHECK BSQ-70-4	2	141	300	95	.375	0.19	1/4	ODP	1700	BELT	120/1	1	–	–	–	–	–	124	–
EF-5	GREENHECK SEI-8	9	56	120	62	.250	0.03	1/30	ODP	500	BELT	120/1	1,10	–	–	–	–	–	122	–
EF-6	GREENHECK BSQ-90-5	2	486	1035	125	.500	0.37	1/2	ODP	1700	BELT	208/3	2	–	–	–	–	–	115	–
EF-7	GREENHECK BSQ 240-20	2	3455	7350	187	.750	2.24	3	ODP	997	BELT	208/3	2	–	–	–	–	–	119	–
EF-8	GREENHECK LD-90	6	235	500	95	.375	0.03	1/10	ODP	1550	BELT	120/1	2	–	–	–	–	–	127	–
EF-9	GREENHECK BSQ-140-7	2	1234	2625	187	.750	0.56	3/4	ODP	1442	BELT	208/3	2	–	–	–	–	–	127	–
EF-10	GREENHECK TBI-CA	10	11,280	24,000	125	.500	5.59	7 1/2	TEFC	1268	BELT	208/3	1,18	–	–	–	–	–	201	–
EF-11	HARTZELL 40-15-GI2	2	1270	1350/2700	95	.375	0.56	3/4	TEFC	2500	BELT	208/3	1,8	–	–	–	–	–	202	2 SPEED
EF-12	GREENHECK SQ-85-D	2	141	300	95	.375	0.06	1/12	TEAO	1550	DIRECT	120/1	1,4,16	–	2.7	9	–	–	119	PROVIDE WALL ON/OFF SWITCH

FAN TYPE
CENTRIFUGAL
1 SIDEWALL
2 INLINE
3 UTILITY
4 CABINET
5 ROOFTOP UPBLAST
6 ROOFTOP HOODED
7 ROOFTOP FILTERED SUPPLY
8 ROOFTOP DOWNBLAST
AXIAL
9 SIDEWALL PROPELLER
10 TUBE AXIAL
11 VANE AXIAL
12 ROOFTOP UPBLAST
13 ROOFTOP FRP UPBLAST
14 ROOFTOP HOODED
15 OTHER SEE SPECIFICATION SECTION 15830

MOTOR TYPE
ODP- OPEN DRIP PROOF
TEFC- TOTALLY ENCLOSED FAN COOLED
XPL- EXPLOSION PROOF
INV- INVERTER DUTY
TEAO- TOTALLY ENCLOSED AIR OVER
SD SEVERE DUTY

FAN ACCESSORIES
1 GRAVITY BACKDRAFT DAMPER
2 MOTORIZED BACKDRAFT DAMPER
3 WEATHERHOOD
4 WALL COLLAR
5 MOTOR WIRE GUARD
6 MOTOR (OSHA) WIRE GUARD
7 SHUTTER GUARD
8 FAN SPEED CONTROLLER
9 DISCONNECT SWITCH
10 INLET WIRE GUARD
11 OUTLET WIRE GUARD
12 INLET FILTER BOX
13 MOTOR COVER
14 HOUSING INSULATION
15 BELT (OSHA) WIRE GUARD
16 HANGING ISOLATORS
17 INLET/OUTLET FLANGES
18 INLET VANE DAMPER
19 EXTENDED LUBE LINE
20 MANUFACTURER'S ROOF CURB
21 HOODED WALL CAP
22 HOODED ROOF CAP
23 HINGED CURB CAP
24 INLET GRILLE
25 BASE MOUNTED VIBRATION ISOLATORS
26 DUCT ADAPTOR
27 INLET BELL

REMARKS:
(1) SEE SPECIFICATION SECTION 15830
(2) SEE SPECIFICATION SECTION 15885 – SEQUENCE OF OPERATION.
(3) MOUNTING HEIGHT IS FROM FINISHED FLOOR LEVEL OF ROOM INDICATED TO TOP OF FAN OR WALL OPENING.
(4) SINGLE SPEED MOTOR.
(5) TWO-SPEED, TWO-WINDING MOTOR.
(6) RELOCATE EXISTING FAN AND ACCESSORIES AS INDICATED ON DRAWINGS. RE-BALANCE TO SCHEDULED CAPACITIES.
(7) CLASS , GROUP , DIVISION , EXPLOSION PROOF, AMCA CONSTRUCTION

NOTES:
1. OUTDOOR PORTIONS (ENCLOSURES & ETC.) OF EQUIOPMENT SHALL BE A DARK BRONZE FINISH.

AIR COOLED CONDENSING UNIT (ACCU) SCHEDULE

15770 (SI)

MARK	MANUFACTURER, MODEL NUMBER	TOTAL CAPACITY kW	TOTAL CAPACITY MBH	TOTAL CAPACITY COP	TOTAL CAPACITY EER	REFRIGERANT TYPE	SST C	SST F	AIR TEMP AT CONDENSER MIN C	AIR TEMP AT CONDENSER MIN F	AIR TEMP AT CONDENSER MAX C	AIR TEMP AT CONDENSER MAX F	CONDENSING COIL FACE AREA SQ.M	CONDENSING COIL FACE AREA SQ.FT.	COMPRESSORS QTY	COMPRESSORS NO.OF STAGES	COMPRESSORS kW EA.	COMPRESSORS HP EA.	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL MCA	ELECTRICAL MAX.BKR.SIZE	LOCATION	REMARKS
ACCU-1	TRANE TWA 090A3	7.68	90	3.0	10.1	R-22	7	45	4	40	35	95	1.8	19.2	1	1	5.6	7.5	208	3	35.6	60	OUTSIDE	DISCONNECT GROUND

REMARKS:
(1) MANUFACTURER SHALL SIZE REFRIGERANT PIPING, VALVES AND ACCESSORIES FOR PROPER OPERATION OF SYSTEM.

NOTES:
1. OUTDOOR PORTIONS (ENCLOSURES & ETC.) OF EQUIOPMENT SHALL BE A DARK BRONZE FINISH.

ALL OUTDOOR PORTIONS (ENCLOSURES & ETC.) OF EQUIPMENT SHALL BE A DARK BRONZE FINISH.

REVISIONS

REV	DATE	DESCRIPTION	INIT

detailed JET
checked JMM
date 3-14-03
designed WFH

COORDINATION: FIRE CHIEF, BIOENVIRONMENTAL, SAFETY, USING AGENCY, COMMUNICATIONS, BASE COMMANDER, BASE CIVIL ENGINEER, CHIEF ENGINEER

Ohio Air National Guard
Mansfield-Lahm Municipal Airport
REPLACE VEHICLE MAINTENANCE FACILITY
PBXP000650

Burns & McDonnell SINCE 1898
KANSAS CITY, MISSOURI
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MEAD & HUNT
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VEHICLE MAINTENANCE BUILDING AND WASH/PAINT BAY BUILDINGS
MECHANICAL AND HVAC SCHEDULES

project B294-02A
contract
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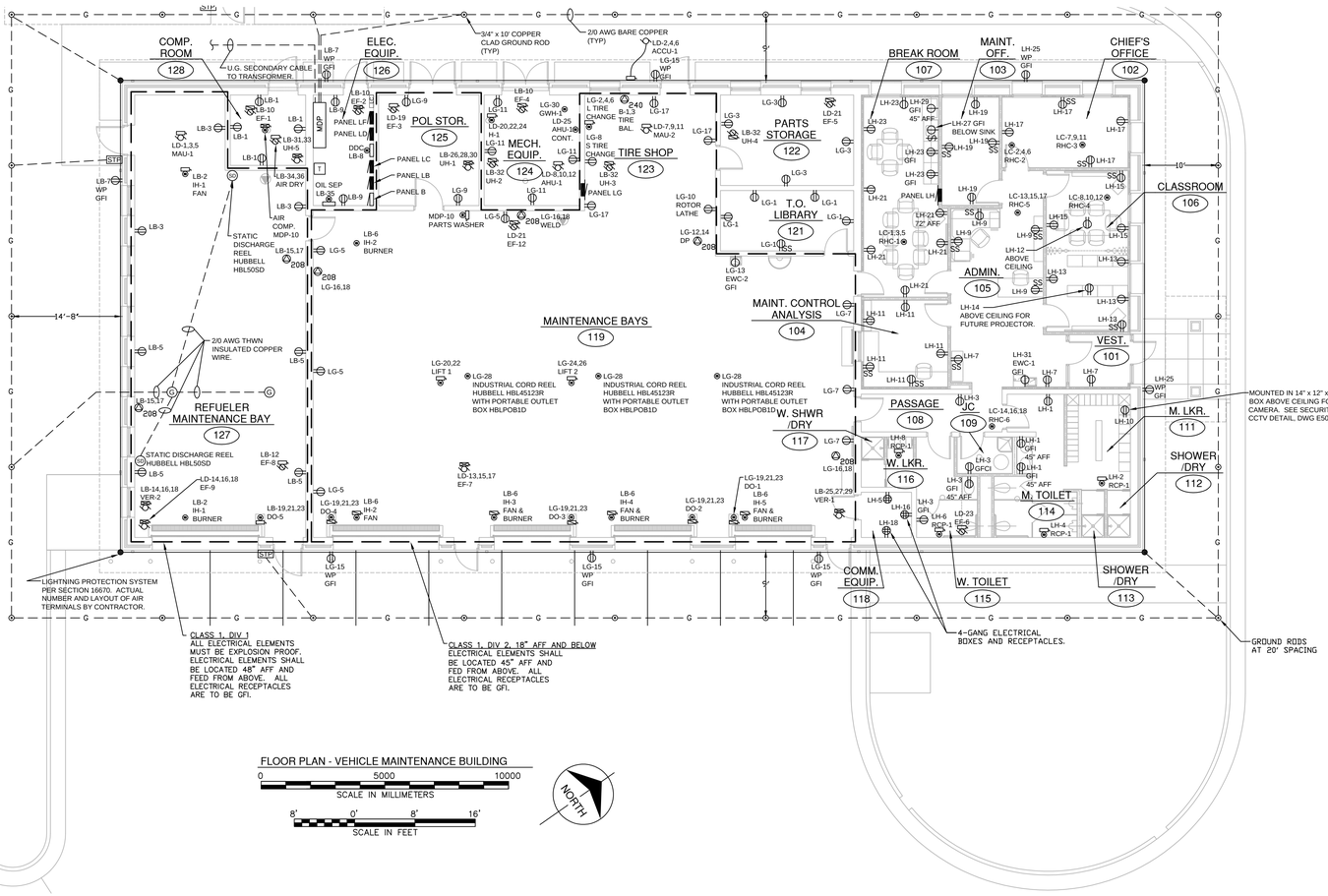

FLOOR PLAN - VEHICLE MAINTENANCE BUILDING

0 5000 10000
SCALE IN MILLIMETERS

8' 0' 8' 16'
SCALE IN FEET

NORTH

SPECIAL PURPOSE RECEPTACLE NOTES

120	SPECIAL PURPOSE RECEPTACLE - 120V - NEMA 5-30R WITH MATCHING PLUG
208	SPECIAL PURPOSE RECEPTACLE - 208V - NEMA L6-30R WITH MATCHING PLUG
240	SPECIAL PURPOSE RECEPTACLE - 120/240V - NEMA L14-30R WITH MATCHING PLUG
WL 208	SPECIAL PURPOSE RECEPTACLE - WATERTIGHT IN METALLIC BACK BOX 2P3W, 208V - NEMA 330R6W WITH MATCHING PLUG
WL 240	SPECIAL PURPOSE RECEPTACLE - WATERTIGHT IN METALLIC BACK BOX 3P4W, 120/240V - NEMA 430R12W WITH MATCHING PLUG
SS	SURGE SUPPRESSION RECEPTACLE - HUBBELL MODEL HBL5362S

GENERAL NOTES:

1. ALL EXTERIOR ELECTRICAL ITEMS SHALL BE CUSTOM PAINTED DARK BRONZE PER SPEC SECTION 09900.

REV	DATE	DESCRIPTION	INIT

REVISIONS

detailed NWE
checked JMM

COORDINATION

SAFETY	FIRE CHIEF
USING AGENCY	BIOENVIRONMENTAL
BASE COMMANDER	BASE CIVIL ENGINEER
CHIEF ENGINEER	COMMUNICATIONS

date 3-14-03
designed NWE

Ohio Air National Guard
Mansfield-Lahm Municipal Airport
REPLACE VEHICLE MAINTENANCE FACILITY
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VEHICLE MAINTENANCE BUILDING AND WASH/PAINT BAY BUILDINGS
VEHICLE MAINTENANCE BULDING
POWER PLAN

project B294-02A
contract
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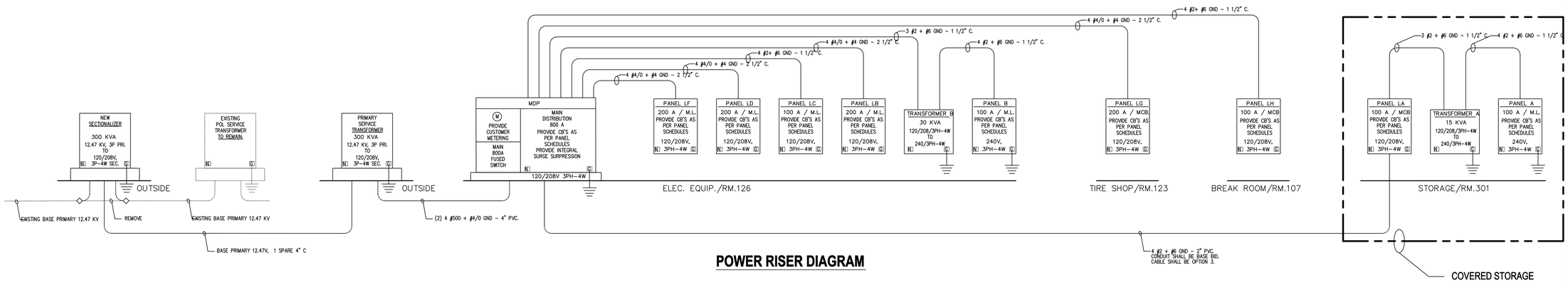
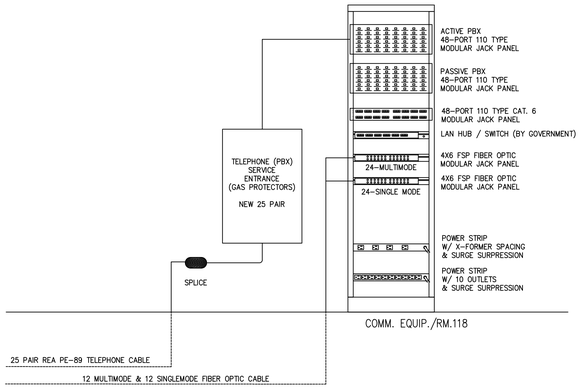
Scale For Microfilming
Millimeters
Inches



POWER RISER DIAGRAM



COMMUNICATION RISER DIAGRAM

PROJECT ELECTRICAL EQUIPMENT LIST - MECHANICAL

PROJECT NO: B294-02A **DATE:** 9/3/02 0:00
CLIENT: OHIO AIR NATIONAL GUARD
PROJECT NAME: REPLACE VEHICLE MAINTENANCE FACILITY

TAG/ITEM NUMBER	AREA/ROOM NUMBER	DESCRIPTION	NEW OR EXISTING	kW/ AMPS	HP	VOLTAGE	PH.	INTEGRAL DISC.	INTEGRAL MOTOR CNTL	NOTES
MAU-1	127	MAKE-UP AIR UNIT	NEW		2	208	3	YES		WIRE THROUGH DDC
MAU-2	123	MAKE-UP AIR UNIT	NEW		5	208	3	YES		WIRE THROUGH DDC
MAU-3	201	MAKE-UP AIR UNIT	NEW		15	208	3	YES		MANUAL ON/OFF
AHU-1	124	AIR HANDLER UNIT	NEW	5.0A		208	3	YES		WIRE THROUGH DDC
ACCU-1	OUTSIDE	AIR COOL CONDENSER UNIT	NEW	30A		208	3	YES		WIRE THROUGH DDC
DDC	126	HVAC CONTROL	NEW	2A		120	1			
EF-1	128	EXHAUST FAN	NEW		1/6	120	1			THERMOSTAT
EF-2	126	EXHAUST FAN	NEW		1/6	120	1			THERMOSTAT
EF-3	125	EXHAUST FAN	NEW		1/6	120	1			WIRE THROUGH DDC
EF-4	124	EXHAUST FAN	NEW		1/6	120	1			THERMOSTAT
EF-5	122	EXHAUST FAN	NEW		1/12	120	1			WIRE THROUGH DDC
EF-6	115	EXHAUST FAN	NEW		1/4	120	1			WIRE THROUGH DDC
EF-7	119	EXHAUST FAN	NEW		3	208	3			DDC & SENSOR OP
EF-8	127	EXHAUST FAN	NEW		1/4	120	1			SENSOR OP
EF-9	127	EXHAUST FAN	NEW		3/4	208	3			DDC & SENSOR OP
EF-10	201	EXHAUST FAN	NEW		7 1/2	208	3			MANUAL ON/OFF
EF-11	202	EXHAUST FAN	NEW		1/2	208	3			MANUAL ON/OFF
EF-12	119	EXHAUST FAN	NEW		1/12	120	1			WIRE THROUGH DDC
VER-1	119	VEHICLE EXHAUST REEL	NEW		5	208	3			MANUAL ON/OFF
VER-2	127	VEHICLE EXHAUST REEL	NEW		2	208	3			MANUAL ON/OFF
EWC-1	105	ELECTRIC WATER COOLER	NEW		1/5	120	1			
EWC-2	119	ELECTRIC WATER COOLER	NEW		1/5	120	1			
IH-1	127	INFRARED HEAT	NEW	1.2 A		120	1			THERMOSTAT
IH-2	119	INFRARED HEAT	NEW	1.2 A		120	1			THERMOSTAT
IH-3	119	INFRARED HEAT	NEW	1.2 A		120	1			THERMOSTAT
IH-4	119	INFRARED HEAT	NEW	1.2 A		120	1			THERMOSTAT
IH-5	119	INFRARED HEAT	NEW	1.2 A		120	1			THERMOSTAT
IH-6	202	INFRARED HEAT	NEW	1.2 A		120	1			THERMOSTAT
GWH-1	124	GAS WATER HEATER	NEW	12A		120	1			AQUA STAT
H-1	124	HUMIDIFIER	NEW	11.4KW		208	3			WIRE THROUGH DDC
OIL SEP	126	OIL WATER SEPERATOR	NEW			120	1			
AIR DRY	128	AIR DRIER FOR AIR COMP.	NEW	1.28KW	3/4	208	1			
AIR COMP	128	AIR COMPRESSOR	NEW	96A	30	208	3			
PRESS WASH	202	ALADDIN PRESSURE WASH	NEW		10	240	3			MANUAL ON/OFF
RCP-1	111, 114, 115, 116	RADIANT CEILING PANEL	NEW	.2KW		120	1			THERMOSTAT
RHC-1	105	RE-HEAT COIL	NEW	1.5KW		208	3			WIRE THROUGH DDC
RHC-2	105	RE-HEAT COIL	NEW	1KW		208	3			WIRE THROUGH DDC
RHC-3	105	RE-HEAT COIL	NEW	2.5KW		208	3			WIRE THROUGH DDC
RHC-4	105	RE-HEAT COIL	NEW	2.5KW		208	3			WIRE THROUGH DDC
RHC-5	105	RE-HEAT COIL	NEW	4KW		208	3			WIRE THROUGH DDC
RHC-6	108	RE-HEAT COIL	NEW	3KW		208	3			WIRE THROUGH DDC
UH-1	125	UNIT HEATER	NEW	10KW		208	3			THERMOSTAT
UH-2	124	UNIT HEATER	NEW		1/30	120	1			THERMOSTAT
UH-3	123	UNIT HEATER	NEW		1/30	120	1			THERMOSTAT
UH-4	122	UNIT HEATER	NEW		1/30	120	1			THERMOSTAT

PROJECT ELECTRICAL EQUIPMENT LIST - GOVERNMENT

PROJECT NO: B294-02A **DATE:** 9/3/02 0:00
CLIENT: OHIO AIR NATIONAL GUARD
PROJECT NAME: REPLACE VEHICLE MAINTNANCE FACILITY

TAG/ITEM NUMBER	AREA/ROOM NUMBER	DESCRIPTION	NEW OR EXISTING	KW/ AMPS	HP	VOLTAGE	PH.	INTEGRAL DISC.	INTEGRAL MOTOR CNTL	NOTES
WELD	119	WELDER	EX	30 A		208	1			GFCI
DRILL PRESS	119	DRILL PRESS	EX	20 A		208	1			GFCI
S TIRE CHANGE	123	SMALL TIRE CHANGER	EX	20 A		110	1			GFCI
L TIRE CHANGE	123	LARGE TIRE CHANGER	EX	20 A		208	3			GFCI
TIRE BAL.	123	TIRE BALANCER	EX	15 A		230	1			GFCI
ROTOR LATHE	123	ROTOR LATHE	EX	20 A		110	1			GFCI
LIFT 1	119	LIFT # 1	EX	20 A		208	1			GFCI
LIFT 2	119	LIFT # 2	EX	20 A		208	1			GFCI
VACUUM	202	VACUUM	EX	30 A		208	1			GFCI
STEAM CLEAN	202	STEAM CLEANER	EX	20 A		230	1			GFCI
CNG-1	302	LARGE COMP NATURAL GAS	EX	40 A		240	1			GFCI
CNG-2	302	SMALL COMP NATURAL GAS	EX	15 A		240	1			GFCI
PARTS	119	PARTS WASHER	EX	18KW	5	208	3			18KW HEAT, 5HP GFCI

PROJECT ELECTRICAL EQUIPMENT LIST

PROJECT NO: B294-02A **DATE:** 9/3/02 0:00
CLIENT: OHIO AIR NATIONAL GUARD
PROJECT NAME: REPLACE VEHICLE MAINTNANCE FACILITY

TAG/ITEM NUMBER	AREA/ROOM NUMBER	DESCRIPTION	NEW OR EXISTING	KW or AMPS	HP	VOLTAGE	PH.	INTEGRAL DISC.	INTEGRAL MOTOR CNTL	NOTES
DO-1	119	DOOR OPERATOR	NEW		1/2	208	3			
DO-2	119	DOOR OPERATOR	NEW		1/2	208	3			
DO-3	119	DOOR OPERATOR	NEW		1/2	208	3			
DO-4	119	DOOR OPERATOR	NEW		1	208	3			
DO-5	127	DOOR OPERATOR	NEW		1	208	3			
DO-6	201	DOOR OPERATOR	NEW		1/2	208	3			
DO-7	202	DOOR OPERATOR	NEW		1/2	208	3			
DO-8	202	DOOR OPERATOR	NEW		1/2	208	3			
DO-9	301	DOOR OPERATOR	NEW		1/2	208	3			

REVISIONS: REV | DATE | DESCRIPTION | INIT

detailed NWE
checked JMM
date 3-14-03
designed NWE

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Scale For Microfilming: Millimeters / Inches

PANEL: MDP SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): BKR | BUS RATING(A): 800
LOCATION: ELEC. EQUIP. RM. 126 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 25000
FED FROM: BUS-UTILITY1 | VOLTAGE: 208/120 | FAULT CURRENT(A) 18748

CUBICLE NO	DESCRIPTION	CONNECTED kVA	DEMAND kVA	DESIGN kVA	DESIGN AMPS	DC DEVICE TRIP SIZE	NOTES
1	BUS-LA	23.47	14.45	15.67	43.50	100	100AF/100AT, FC
2	BUS-LB	41.42	26.60	27.96	77.62	200	250AF/200AT, KC
3	BUS-B.	20.04	5.01	5.01	13.91	100	100AF/100AT, FC
4	BUS-LC	18.13	14.50	14.50	40.25	100	100AF/100AT, FC
5	BUS-LD	37.16	34.68	37.36	103.70	200	250AF/200AT, KC
6	BUS-LF	40.07	37.16	43.97	122.06	200	250AF/200AT, KC
7	BUS-LG	42.16	12.30	12.30	34.15	200	250AF/200AT, KC
8	BUS-LH	16.55	8.21	9.33	25.91	100	100AF/100AT, FC
9	AIR COMP.	34.97	34.97	43.71	121.33	125	30 HP
10	PARTS WASHER	28.17	16.90	16.90	46.92	110	5HP MOTOR, 18KW HEAT
11	MAU-3	15.44	15.44	19.29	53.56	90	15 HP
12	SPACE	0.00	0.00	0.00	0.00	0	
13	SPACE	0.00	0.00	0.00	0.00	0	
14	SPACE	0.00	0.00	0.00	0.00	0	

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	316.73	879.2	* A-N	105577.4	879.2	CONNECTED	316.73
TOTAL DEMAND	219.57	609.5	* B-N	105577.4	879.2	DEMAND	219.57
TOTAL DESIGN	237.45	659.1	* C-N	105577.4	879.2	DESIGN	237.45

PANEL: PNL A SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | BUS RATING(A): 100
LOCATION: VEHICLE STORAGE 301 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-A1 | VOLTAGE: 240/139 | FAULT CURRENT(A) 906

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
40 2	40A	CNG-1	BUILDIN	9600	1	4800			2	0	SPACE	SPACE		0 2
" "		" "		-	3		4800		4	-		" "		" "
20 2	15A	CNG-2	BUILDIN	3600	5			1800	6	0	SPACE	SPACE		0 2
" "		" "		-	7	1800			8	-		" "		" "
0 2		SPACE	SPACE	0	9		0		10	0	SPACE	SPACE		0 2
" "				-	11			0	12	-		" "		" "

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	13.20	31.8	* A-N	6823.5	49.2	CONNECTED	13.20
TOTAL DEMAND	7.92	19.1	* B-N	5542.6	40.0	DEMAND	7.92
TOTAL DESIGN	7.92	19.1	* C-N	2078.5	15.0	DESIGN	7.92

PANEL: PNL B SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | BUS RATING(A): 100
LOCATION: ELEC. EQUIP. RM. 126 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-B. | VOLTAGE: 240/139 | FAULT CURRENT(A) 1517

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 2	GFI BKR	TIRE BALANCER	RECEPTA	3600	1	5680			2	11639	RECEPTA	PRESS WASH, RM 202	GFI, 10 HP	60 3
" "		" "		-	3		5680		4	-		" "		" "
20 2	GFI BKR	STEAM CLEANER	RECEPTA	4800	5			6280	6	-		" "		" "
" "		" "		-	7	2400			8	0	SPACE	SPACE		0 1
20 2		SPARE	SPARE	0	9		0		10	0	SPACE	SPACE		0 1
" "		" "		-	11			0	12	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	13	0			14	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	15		0		16	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	17			0	18	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	19	0			20	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	21		0		22	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	23			0	24	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	25	0			26	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	27		0		28	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	29			0	30	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	31	0			32	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	33		0		34	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	35			0	36	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	37	0			38	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	39		0		40	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	41			0	42	0	SPACE	SPACE		0 1

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	20.04	48.2	* A-N	8087.2	58.4	CONNECTED	20.04
TOTAL DEMAND	5.01	12.1	* B-N	5774.1	41.7	DEMAND	5.01
TOTAL DESIGN	5.01	12.1	* C-N	6430.8	46.4	DESIGN	5.01

PANEL: PNL LA SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): BKR | BUS RATING(A): 100
LOCATION: VEHICLE STORAGE 301 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-LA | VOLTAGE: 208/120 | FAULT CURRENT(A) 2398

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1		RM 302E RCP	RECEPTA	540	1	4940			2	13200	NONE	BUS-LA1		50 3
20 1		RM 302M RCP	RECEPTA	540	3		4940		4	-		" "		" "
20 1		RM 302W RCP	RECEPTA	540	5			4940	6	-		" "		" "
20 1		RM 301 RCP	RECEPTA	720	7	2040			8	1320	LIGHTIN	LIGHTING		20 1
20 1	GFI BKR	OUTSIDE RCP	RECEPTA	540	9		540		10	0	SPARE	SPARE		20 1
20 1		2 VEHICLE RCP	RECEPTA	360	11			1608	12	1248	LIGHTIN	EXTERIOR LIGHTING		20 1
20 1		2 VEHICLE RCP	RECEPTA	360	13	660			14	901	BUILDIN	DD-9	1/2 HP	20 3
20 1		2 VEHICLE RCP	RECEPTA	360	15		660		16	-		" "		" "
20 1		2 VEHICLE RCP	RECEPTA	360	17			660	18	-		" "		" "
20 1		1 VEHICLE RCP	RECEPTA	180	19	1860			20	1680	LIGHTIN	PARKING LOT LIGHTS		20 1
20 1		SPARE	SPARE	0	21		620		22	620	LIGHTIN	LTG - UNSWITCHED NL		0 1
20 1		SPARE	SPARE	0	23			0	24	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	25	0			26	0	SPACE	SPACE		0 1
20 1		SPARE	SPARE	0	27		0		28	0	SPACE	SPACE		0 1
20 1		SPARE	SPARE	0	29			0	30	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	31	0			32	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	33		0		34	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	35			0	36	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	37	0			38	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	39		0		40	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	41			0	42	0	SPACE	SPACE		0 1

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	23.47	65.1	* A-N	9500.2	79.1	CONNECTED	23.47
TOTAL DEMAND	14.45	40.1	* B-N	6760.2	56.3	DEMAND	14.45
TOTAL DESIGN	15.67	43.5	* C-N	7208.2	60.0	DESIGN	15.67

PANEL: PNL LB SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | BUS RATING(A): 225
LOCATION: ELEC. EQUIP. RM. 126 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-LB | VOLTAGE: 208/120 | FAULT CURRENT(A) 16971

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1		RM 128 RCP	RECEPTA	720	1	864			2	144	H. V. A. C	IH-1	.9A FAN, .3A B	20 1
20 1	GFI BKR	RM 127 RCP	RECEPTA	540	3		684		4	144	H. V. A. C	IH-6	.9A FAN, .3A B	20 1
20 1	GFI BKR	RM 127 DCP	RECEPTA	720	5			1296	6	576	H. V. A. C	IH-2-5	.9A FAN, .3A B	20 1
20 1	GFI BKR	OUTSIDE RCP	RECEPTA	900	7	1140			8	240	BUILDIN	DDC	2A	20 1
20 1		RM 126 RCP	RECEPTA	360	9		2077		10	1717	H. V. A. C	EF-1, 2, 4	3-1/6 HP	20 1
30 2	GFI BKR	VACUUM	RECEPTA	6240	11			3817	12	697	H. V. A. C	EF-8	1/4 HP	20 1
" "		" "		-	13	3902			14	2349		VER-2	2 HP	20 3
30 2	GFI BKR	WELDING RCP	RECEPTA	4160	15		2862		16	-		" "		" "
" "		" "		-	17			2862	18	-		" "		" "
20 3	1 HP	DD-5	BUILDIN	1729	19	838			20	797		EF-11	1/2 HP	20 3
" "		" "		-	21		838		22	-		" "		" "
" "		" "		-	23			838	24	-		" "		" "
35 3	5 HP	VER-1		5551	25	4940			26	10000	H. V. A. C	UH-1	10 KW	40 3
" "		" "		-	27		4940		28	-		" "		" "
" "		" "		-	29			4940	30	-		" "		" "
20 2		UH-5	H. V. A. C	2000	31	2494			32	1621	H. V. A. C	UH-2-4	3 - 1/30 HP	20 1
" "		" "		-	33		1837		34	1872	BUILDIN	AIR DRYER	3/4 HP	20 2
20 1		OIL SEPERATOR	RECEPTA	180	35			1116	36	-		" "		" "
20 1		SPARE	SPARE	0	37	0			38	0	SPACE	SPACE		0 1
20 1		SPARE	SPARE	0	39		0		40	0	SPACE	SPACE		0 1
20 1		SPARE	SPARE	0	41			0	42	0	SPACE	SPACE		0 1

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	41.42	115.0	* A-N	13384.4	111.5	CONNECTED	41.42
TOTAL DEMAND	26.60	73.8	* B-N	13595.4	113.2	DEMAND	26.60
TOTAL DESIGN	27.96	77.6	* C-N	14576.4	121.4	DESIGN	27.96

PANEL: PNL LC SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | BUS RATING(A): 100
LOCATION: ELEC. EQUIP. RM. 126 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-LC | VOLTAGE: 208/120 | FAULT CURRENT(A) 15466

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 3	DDC, 1.5 KW	RHC-1	H. V. A. C	1875	1	1042			2	1250	H. V. A. C	RHC-2	DDC, 1.0 KW	20 3
" "		" "		-	3		1042		4	-		" "		" "
" "		" "		-	5			1042	6	-		" "		" "
20 3	DDC, 2.5 KW	RHC-3	H. V. A. C	3125	7	2083			8	3125	H. V. A. C	RHC-4	DDC, 2.5 KW	20 3
" "		" "		-	9		2083		10	-		" "		" "
" "		" "		-	11			2083	12	-		" "		" "
25 3	DDC, 4 KW	RHC-5	H. V. A. C	5000	13	2917			14	3750	H. V. A. C	RHC-6	DDC, 3 KW	20 3
" "		" "		-	15		2917		16	-		" "		" "
" "		" "		-	17			2917	18	-		" "		" "
20 3		SPARE	SPARE	0	19	0			20	0	SPACE	SPACE		0 1
" "		" "		-	21		0		22	0	SPACE	SPACE		0 1
" "		" "		-	23			0	24	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	25	0			26	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	27		0		28	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	29			0	30	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	31	0			32	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	33		0		34	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	35			0	36	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	37	0			38	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	39		0		40	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	41			0	42	0	SPACE	SPACE		0 1

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	18.13	50.3	* A-N	6041.7	50.3	CONNECTED	18.13
TOTAL DEMAND	14.50	40.2	* B-N	6041.7	50.3	DEMAND	14.50
TOTAL DESIGN	14.50	40.2	* C-N	6041.7	50.3	DESIGN	14.50

PANEL: PNL LD SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | BUS RATING(A): 225
LOCATION: ELEC. EQUIP. RM. 126 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-LD | VOLTAGE: 208/120 | FAULT CURRENT(A) 17013

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 3	DDC, 2 HP	MAU-1		2349	1	4385			2	10810		ACCU-1	DDC, 30A	60 3
" "		" "		-	3		4385		4	-		" "		" "
" "		" "		-	5			4385	6	-		" "		" "
35 3	DDC, 5 HP	MAU-2		5551	7	2450			8	1800		AHU-1	DDC, 5A	20 3
" "		" "		-	9		2450		10	-		" "		" "
" "		" "		-	11			2450	12	-		" "		" "
20 3	DDC, 3HP	EF-7		3552	13	1553			14	1110		EF-9	DDC, 3/4HP	20 3
" "		" "		-	15		1553		16	-		" "		" "
" "		" "		-	17			1553	18	-		" "		" "
20 1	DDC, 1/6 HP	EF-3	H. V. A. C	528	19	4235			20	11400	H. V. A. C	H-1	DDC, 11.4 KW	45 3
20 1	DDC, 1/12 HP	EF-5,12	H. V. A. C	961	21		4605		22	-		" "		" "
20 1	DDC, 1/4 HP	EF-6	H. V. A. C	697	23			4377	24	-		" "		" "
20 1		AHU-1 CONTROL	H. V. A. C	180	25	180			26	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	27		0		28	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	29			0	30	0	SPARE	SPARE		20 1
0 1		SPACE	SPACE	0	31	0			32	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	33		0		34	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	35			0	36	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	37	0			38	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	39		0		40	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	41			0	42	0	SPACE	SPACE		0 1

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	37.16	103.2	* A-N	12309.2	102.5	CONNECTED	37.16
TOTAL DEMAND	34.68	96.3	* B-N	12557.9	104.6	DEMAND	34.68
TOTAL DESIGN	37.36	103.7	* C-N	12297.5	102.4	DESIGN	37.36

PANEL: PNL LF SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | BUS RATING(A): 225
LOCATION: ELEC. EQUIP. RM. 126 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-LF | VOLTAGE: 208/120 | FAULT CURRENT(A) 16949

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 3	1/2 HP	DD-6-8	BUILDIN	2702	1	2101			2	1200	LIGHTIN	UNSWITCHED LIGHTING		20 1
" "		" "		-	3		1910		4	1009	LIGHTIN	LIGHTING		20 1
" "		" "		-	5			2161	6	1260	LIGHTIN	LIGHTING		20 1
50 3	7.5 HP	EF-10	H. V. A. C	9115	7	4190			8	1152	LIGHTIN	LIGHTING		20 1
" "		" "		-	9		4190		10	1152	LIGHTIN	LIGHTING		20 1
" "		" "		-	11			4262	12	1224	LIGHTIN	LIGHTING		20 1
20 1		EXTERIOR LIGHTING	LIGHTIN	1260	13	2484			14	1224	LIGHTIN	LIGHTING		20 1
20 1		SOFFIT LIGHTS	LIGHTIN	760	15		1984		16	1224	LIGHTIN	LIGHTING		20 1
20 1		PAINT BOOTH LIGHTS	LIGHTIN	1400	17			2624	18	1224	LIGHTIN	LIGHTING		20 1
20 1		PAINT BOOTH LIGHTS	LIGHTIN	1400	19	2768			20	1368	LIGHTIN	LIGHTING		20 1
20 1		WASH BAY LIGHTS	LIGHTIN	780	21		1572		22	792	LIGHTIN	LIGHTING		20 1
20 1	SPARE	SPARE	SPARE	0	23			1260	24	1260	LIGHTIN	LIGHTING		20 1
20 1	SPARE	SPARE	SPARE	0	25	1260			26	1260	LIGHTIN	LIGHTING		20 1
20 1	SPARE	SPARE	SPARE	0	27		1260		28	1260	LIGHTIN	LIGHTING		20 1
20 1	SPARE	SPARE	SPARE	0	29			1000	30	1000	SPARE	SPARE		20 1
0 1	SPARE	SPACE	SPACE	0	31	1680			32	1680	LIGHTIN	PARKING LOT LIGHTS		20 1
0 1	SPARE	SPACE	SPACE	0	33		1680		34	1680	LIGHTIN	PARKING LOT LIGHTS		20 1
0 1	SPARE	SPACE	SPACE	0	35			1680	36	1680	LIGHTIN	PARKING LOT LIGHTS		20 1
0 1	SPARE	SPACE	SPACE	0	37	0			38	0	SPACE	SPACE	SPARE	0 1
0 1	SPARE	SPACE	SPACE	0	39		0		40	0	SPACE	SPACE	SPARE	0 1
0 1	SPARE	SPACE	SPACE	0	41			0	42	0	SPACE	SPACE	SPARE	0 1

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	40.07	111.2	* A-N	14482.9	120.6	CONNECTED	40.07
TOTAL DEMAND	37.16	103.2	* B-N	12595.9	104.9	DEMAND	37.16
TOTAL DESIGN	43.97	122.1	* C-N	12986.9	108.1	DESIGN	43.97

PANEL: PNL LG SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): BKR | BUS RATING(A): 225
LOCATION: TIRE SHOP 123 | DEVICE FAMILY: Bolt On | MOUNTING: Flush | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-LG | VOLTAGE: 208/120 | FAULT CURRENT(A) 12981

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1		RM 121 RCP	RECEPTA	900	1	3302			2	7205	RECEPTA	L TIRE CHANGER	GFI BKR	20 3
20 1		RM 122 RCP	RECEPTA	720	3		3122		4	-		" "		" "
20 1		RM 119 RCP	RECEPTA	720	5			3122	6	-		" "		" "
20 1	GFI BKR	RM 119 RCP	RECEPTA	540	7	2942			8	2402	RECEPTA	S TIRE CHANGER	GFI BKR	20 1
20 1	GFI BKR	RM 125 RCP	RECEPTA	360	9		2762		10	2402	RECEPTA	ROTOR LATHE	GFI BKR	20 1
20 1	GFI BKR	RM 124 RCP	RECEPTA	720	11			2800	12	7160	RECEPTA	DRILL PRESS	GFI BKR	20 2
20 1	GFI BKR, 1/5 H	RM 119 EWC-2	RECEPTA	624	13	2704			14	-		" "		" "
20 1	GFI BKR	OUTSIDE RCP	RECEPTA	720	15		3840		16	6240	RECEPTA	WELDING RCP	GFI BKR	30 2
20 1	GFI BKR	RM 123 RCP	RECEPTA	540	17			3660	18	-		" "		" "
20 3	1/2 HP	DD-1-4	BUILDIN	3603	19	3281			20	4160	RECEPTA	LIFT 1	GFI BKR	20 2
" "		" "		-	21		3281		22	-		" "		" "
" "		" "		-	23			3281	24	4160	RECEPTA	LIFT 2	GFI BKR	20 2
0 1		SPACE	SPACE	0	25	2080			26	-		" "		" "
0 1		SPACE	SPACE	0	27		540		28	540	RECEPTA	CORD REELS	GFI BKR	20 1
0 1		SPACE	SPACE	0	29			1441	30	1441	BUILDIN	GWH-1	GFI BKR	20 1
0 1		SPACE	SPACE	0	31	0			32	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	33		0		34	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	35			0	36	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	37	0			38	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	39		0		40	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	41			0	42	0	SPACE	SPACE		0 1

ALL CONNECTED	KVA	AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	42.16	117.0	* A-N	14359.2	119.6	CONNECTED	42.16
TOTAL DEMAND	12.30	34.2	* B-N	13557.7	112.9	DEMAND	12.30
TOTAL DESIGN	12.30	34.2	* C-N	14316.3	119.2	DESIGN	12.30

PANEL: PNL LH SCH | DC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): BKR | BUS RATING(A): 100
LOCATION: BREAK ROOM 107 | DEVICE FAMILY: Bolt On | MOUNTING: Flush | WIRING: 3-Phase 4-Wire | WITHSTAND(A): 10000
FED FROM: BUS-LH | VOLTAGE: 208/120 | FAULT CURRENT(A) 5707

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1	GFI BKR	RM 114 RCP	RECEPTA	540	1	790			2	250	H. V. A. C	RCP-1, RM. 111		20 1
20 1	GFI BKR	RM 108, 109, 115 RCP	RECEPTA	720	3		970		4	250	H. V. A. C	RCP-1, RM. 114		20 1
20 1		RM 118 RCP	RECEPTA	360	5			610	6	250	H. V. A. C	RCP-1, RM. 115		20 1
20 1		RM 101, 105 RCP	RECEPTA	540	7	790			8	250	H. V. A. C	RCP-1, RM. 116		20 1
20 1		RM 105 RCP	RECEPTA	720	9		900		10	180	BUILDIN	CCTV RECEPT		20 1
20 1		RM 104 RCP	RECEPTA	900	11			900	12	0	BUILDIN	FUTURE PROJECTOR		20 1
20 1		RM 106 RCP	RECEPTA	720	13	720			14	0	BUILDIN	FUTURE PROJECTOR		20 1
20 1		RM 106 RCP	RECEPTA	540	15		1260		16	720	RECEPTA	RM 118 RCP		20 1