Inspections Division
Date: 04/25/14

JOHNSON & JORDAN
MECHANICAL CONTRACTORS
18 MUSSEY ROAD
SCARBOROUGH, ME 04074
TEL. (207) 883-8345

STATE OF MAINE
FRANK A. MERRIFIELD
No. 10010
LICENSED
PROFESSIONAL ENGINEER

GENERAL NOTES:

REV.	DESCRIPTION	DATE
1	DUCT MODIFICATIONS	3/11/14

ISSUE STATUS:
ISSUED FOR CONSTRUCTION

PROJECT:
MAINE HISTORICAL SOCIETY
PORTLAND, MAINE

SHEET TITLE:
MECHANICAL PLANS
BUILDING #1

DATE:		PROJECT#
2-28-2014		13431
DRAWN: BSJ	CHECKED: FAM	SCALE: 1/8"=1'-0"

SHEET #
M-1

Inspection Division
Date: 04/25/14

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STATE OF MAINE
FRANK A. MERRIFIELD
No. 10010
LICENSED
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GENERAL NOTES:

REV.	DESCRIPTION	DATE

ISSUE STATUS:
ISSUED FOR CONSTRUCTION

PROJECT:
MAINE HISTORICAL SOCIETY
PORTLAND, MAINE

SHEET TITLE:
MECHANICAL PLANS BUILDING #2

DATE:		PROJECT#
2-28-2014		13431
DRAWN: BSJ	CHECKED: FAM	SCALE: 1/8"=1'-0"

SHEET #
M-2

Inspections Division
Date: 04/25/14

MINI-SPLIT AIR CONDITIONING UNIT

AC-1: INDOOR SECTION: LG MODEL LSN307HV3, 30 MBH COOLING, 32 MBH HEATING, 20 LBS.

CU-1: OUTDOOR SECTION: LG MODEL LSU307HV3, 208-230/60/1, MCA 19, 30 AMP FUSE, 69 LBS, 3/8" LIQUID & 5/8" GAS CONN.

ERV SCHEDULE

TAG	MFG. NO	FAN PERFORMANCE				ELECTRICAL			APPROX. WEIGHT (LBS)	REMARKS
		CFM	ESP	HP	RPM	V/HZ/PH	FLA	MFA		
ERV-1	EV200	180	0.3	1.5	~	120/60/1	1.5	~	70	

BASED ON : RENEWAIRE

HVAC UNIT SCHEDULE

TAG	MFG. NO.	CFM	S.P.	COOLING		HEATING		O.A. CFM	V/HZ/PH	MCA	FUSE	WEIGHT	OVERALL SIZE
				TOTAL	SENS.	INPUT	OUTPUT						
HVAC-1	YHC092F	3,000	1.0	92.0	68.63	150	120	300	208/60/3	41.9	50	1,180	63"x100"x52" HIGH
HVAC-2	YHC092F	3,000	0.5	92.0	68.63	150	120	500	208/60/3	41.9	50	1,064	63"x100"x52" HIGH
HVAC-3	YHC047C	1,600	0.5	50.5	37.22	80	64	375	208/60/3	29.4	40	725	53"x88"x41" HIGH
HVAC-4	YHC120E	4,000	0.5	117.47	92.29	200	160	900	208/60/3	50.3	60	1,369	63"x100"x52" HIGH
HVAC-5	YHC092F	3,000	1.0	92.0	68.63	150	120	300	208/60/3	41.9	50	1,180	63"x100"x52" HIGH
HVAC-6	YHD240F	8,000	0.75	246.14	168.4	400	324	1,000	460/60/3	50.0	60	2,434	84"x122"x64" HIGH

BASED ON : TRANE , COMPLETE WITH ECONOMIZERS , POWER EXHAUST OR BAROMETRIC DAMPER, ROOF CURBS, & VIBRATION RAILS
OUTDOOR DESIGN - 95 DEG.F. DB / 72 DEG.F. WB
AIR ENTERING COIL - 80 DEG.F. DB / 67 DEG.F. WB

COOLING CAPACITIES SHOWN IN MBH .

GAS-FIRED UNIT HEATER SCHEDULE

TAG	MFG. NO.	TYPE	CFM	HP	MBH INPUT	MBH OUTPUT	ΔT °F	V/HZ/PH	LOCATION	REMARKS
UH-1	GTNE003ATA	TUBULAR HEAT EXCHANGER	370	1/20	30	24.9	60	115/60/1	BOOKMOBILE PARKING 117	①

① PROVIDE CONCENTRIC VENT/COMBUSTION AIR TERMINATION KIT, BELT GUARD, CONDENSATE pH NEUTRALIZING KIT.
② PROVIDE CONCENTRIC VENT/COMBUSTION AIR TERMINATION KIT, BELT GUARD.
③ PROVIDE UNITS WITH 2 STAGE HEAT.

FAN SCHEDULE

TAG	MFG. NO.	CFM	S.P.	HP/ WATTS	RPM	V/HZ/PH	AREA SERVED	FAN LOCATION	REMARKS
EF-1	DX16V	1,050	0.25	1/6	956	115/1/60	BOOKMOBILE PARKING	ROOF	① ② ③
EF-2	DX13R	839	0.38	1/6	1,549	115/1/60	WORKSHOP	ROOF	① ② ③
EF-3	DX11R	260	0.38	1/7	1,179	115/1/60	QUARANTINE	ROOF	① ② ③
EF-4	Z5H	120	0.25	79W	1,550	115/1/60	KITCHENETTE	CEILING	① ② ④

BASED ON : PENNBARRY
① BACKDRAFT DAMPER
② SPEED CONTROL
③ NEMA 1 DISCONNECT
④ WALL DISCHARGE CAP

LOUVER SCHEDULE

TAG	MFG NO.	SIZE	CFM	FPM	REMARKS
L-1	ELC6375DAX	24"x36"	1,050	500	①②③④

BASED ON : RUSKIN
① MILL FINISH
② DRAINABLE BLADES
③ BIRD SCREEN
④ MOD

VARIABLE AIR VOLUME (VAV) BOX SCHEDULE

TAG	MFG. NO.	SIZE (IN)	CFM	REMARKS
BD1-1	VADB16	16	2,400	
CD1-1	VADB12	12	775	
CD1-2	VADB16	16	1,500	
CD1-3	VADB06	6	125	
CD1-4	VADB10	10	450	
BD5-1	VADB16	16	2,400	
CD5-1	VADB12	12	800	
CD5-2	VADB10	10	450	
CD5-3	VADB16	16	1,570	

BASED ON : TRANE

DIFFUSER, GRILLE & REGISTER SCHEDULE

B/100 = SIZE CODE / CFM

TAG	MFG NO.	SIZE	CFM	NC	PD	THROW	CONN.	REMARKS
A	TMS-3	6" DIA.	0-100	<20	0.04	3-8	6" DIA.	
B	TMS-3	8" DIA.	101-180	<20	0.04	4-11	8" DIA.	
C	TMS-3	10" DIA.	181-320	<21	0.09	7-15	10" DIA.	
D	TMS-3	12" DIA.	321-550	<26	0.16	9-21	12" DIA.	
E	350FL	22"x22"	0-1884	<24	0.13	~	22"x22"	
F	350FL	12"x12"	0-616	<25	0.13	~	12"x12"	
G	350FL	14"x14"	0-854	<27	0.13	~	14"x14"	
H	DL-5V	20"x12"	0-800	<20	0.08	31-53	20"x12"	

BASED ON : TITUS

HUMIDIFIER SCHEDULE

TAG	MFG NO.	FUEL	INPUT kW	RATED CAP #/HR.	ELECTRICAL		REMARKS
					V/HZ/PH	FLA	
H-1	CRUV-4	ELECTRICITY	4.0	11.02	208/60/3	16.7	
H-2	CRUV-6	ELECTRICITY	6.0	15.08	208/60/3	25.0	
H-3	CRUV-8	ELECTRICITY	8.0	23.98	208/60/3	33.3	
H-4	CRUV-16	ELECTRICITY	16	46.94	480/60/3	19.2	

BASED ON : DRI-STEEM

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GENERAL NOTES:

REV.	DESCRIPTION	DATE
1	CHANGED VOLTAGE ON H-4	3/11/14

ISSUE STATUS:
ISSUED FOR CONSTRUCTION

PROJECT:
MAINE HISTORICAL SOCIETY
PORTLAND, MAINE

SHEET TITLE:
SCHEDULES

DATE: 2-28-2014
PROJECT#: 13431
DRAWN: BSJ
CHECKED: FAM
SCALE: 1/8"=1'-0"

SHEET #
M-3