

HUDSON RIVER MUSEUM **BOILER REPLACEMENT** 511 WARBURTON AVE., YONKERS, NY 10701



	DRAWING LIST			OLA Consulting	Engineers
DWG #	DRAWING TITLE			50 Broadway,	
	COVER SHEET - BASE & ALTERNATE			Hawthorne, NY 914.747.2800	10532
	GENERAL NOTES, SCOPE OF WORK TABLE & DETAILS - BASE &			Q West 20th Str	
				Suite 501	eet,
H-101	ASDESTUS NOTES - DASE & ALTERNATE BASEMENT ASBESTOS ABATEMENT PLAN - BASE & ALTERNATE			New York, NY 1 646 849 4110	0018
H-102	MIDDLE LEVEL ASBESTOS ABATEMENT PLAN - BASE & ALTERNATE		SULTING		
H-103	MIDDLE LEVEL MER ASBESTOS ABATEMENT PLAN - BASE &			olace.com	
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A-002	CONSTRUCTION PLAN			40 SOLITH BROA	DWAY
A-003	REFLECTED CEILING PLAN		YO	NKERS, NY 10701	
A-004	SECTIONS AND ELEVATIONS			914.377.6106	
A-005	ELEVATIONS		THE HUD	DSON RIVER MUS	EUM
A-006	DETAILS		511 WA	ARBURTON AVEN	UE
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HUDSON RIVER MUSEUM BOILER REPLACEMENT

Lot 1
М
A-3 Museum
1-В

2015 NY IBC TABLE 601 Fire-Resistance Rating Requirements for Building Elements

Construction Type	Protection	
lement	Type 1B	Proposed
tructural frame	2	2*
earing Walls		
Exterior	2	2*
Interior	2	2
Ionbearing Walls		
Exterior	2	2
Interior	0	0
loor construction	2	2
loof construction		
ncluding structure	1	1
Roof supports: Fire-I	resistance rat	ings of structural frame and bearing walls are
permitted to be red	uced by 1 hc	our where supporting a roof only.
xterior Walls and Fi	re Separation	
he aggregate arec	and height o	comply with the limits of Section 5, as per Table

ply with the limits of Section 5, as per Table 503. West Wing Addition

- Type 1B Construction, A-3 Occupancy
- 11 Stories, Unlimited Area Permitted
- Existing Building Type 1B Construction

A-3 Occupancy

Permitted: 11 stories, Unlimited Area Proposed: No Change to Building Height or Area

- **Relevant** Codes
- 2015 NY IBC
- 2015 NY IECC - 2015 NY IFC
- 2017 ICC ANSI A117.1
- Yonkers Fire and Building Code
- Yonkers Zoning Code
- **Building Permit Notes:** - Plumbing to be filed separately.

- Electrician to file all electrical work.

- Fire Alarm to be filed separately as per 2015 NY IFC Section 907.1.

Special Inspections: To be completed in accordance to 2015 NY IBC Chapter 17.

SEE FLOOR PLANS BELOW FOR OCCUPANCY AND EGRESS

Occupant Load calculated as per: - 2015 NY IBC Table 1004.1.2 Maximum Floor Area Allowance per Occupant - 2015 NY IBC 1005.3.2 Other Egress Capacity Factor







Project Boiler Project

Hudson River Museum 511 Warburton Avenue Yonkers, NY 10701

Date/Revision 09.16.2022 Bid Issue

Drawing Title **Construction Plan** 3/16"=1'-0"

Drawing Number







1. Section Looking East 1/4''-1'0''



2. Section Looking West 1/4''-1'0''









2. Interior Elevation Looking North 1/2" = 1'-0"



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Project Boiler Project

Hudson River Museum 511 Warburton Avenue Yonkers, NY 10701

Date/Revision 09.16.2022 Bid Issue Drawing Title Elevations

1/2" = 1'-0"

Drawing Number **A-005.00**







3. Curb Detail Scale: 3" = 1'-0"

new framed GWB soffit

align

existing GWB ceiling

Note: existing GWB ceilings to

be patched as required after.

1. Soffit Detail 1" = 1'-0"

- 7.Door Hardware/Number
- Hinges /8 each Door Seal/6 each
- Sweep/2 each
- Closer, parallel arms/2 each Kickplate/ 1 each Threshold/1 each

2. Insulated Metal Panel Detail 3" = 1'-0"



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5. Section through door 1" = 1'-0"

6. Section through louver 1" = 1'-0"

Project Boiler Project

Hudson River Museum 511 Warburton Avenue Yonkers, NY 10701

Date/Revision

09.16.2022 Bid Issue

Drawing Title Wall Types and Details Scale as noted

Drawing Number **A-006.00**





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SCALE: 1/4" = 1'-0"

1. THE REVISED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING

2. COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW AND EXISTING FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION. WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO

3. SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED FULLY COORDINATED FOR REVIEW

4. ALTER PIPING AS REQUIRED TO SUIT NEW AND EXISTING CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT,

5. PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL

SPRINKLER PIPING MATERIAL: SHALL BE STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, SEAMLESS OR WELDED MILD STEEL, CONFORMING TO ASTM A-795/A-53.

R HEAD SCHEDULE							
HEAD TEMP.	MAX CEILING TEMP.	ORIFICE	K-FACTOR	MEA#			
212°F	150°F	1/2"	5.6	258-93-E			







SYMBOL & AB	BBREVIATIC	NS				GENERAL NOTES	C
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	1 CONTRACT DRAWINGS AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT	1
	AD	ACCESS DOOR	Д	_	ECCENTRIC REDUCER	AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD	י. ר
	AFF			_	OS&Y GATE VALVE	LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE	۷.
				_		MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.	
-			 			2. THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON	3.
-	AHU-			-		THE DRAWINGS OR NOT.	
-	AP	ACCESS PANEL	بک	-	STRAINER	3. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND	
-	BDD	BACKDRAFT DAMPER	0	-	BASKET STRAINER	DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.	
-	BHP	BRAKE HORSEPOWER	${\bowtie}$	-	PRESSURE REDUCING VALVE	4. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES	
-	BTU	BRITISH THERMAL UNIT		-	FLOW ARROW	PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRESTOPPING MATERIAL. PENETRATIONS FOR	
-	CFM	CUBIC FEET PER MINUTE	dī	-	BUTTERFLY VALVE	PIPING SHALL BE MADE BY CORE DRILLING.	
-	CP-	CONDENSATE PUMP	IQI	-	BALANCING VALVE	5. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL	
-	DB	DRY BULB TEMPERATURE	н ,	-	MANUAL AIR VENT	CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY	
-	DIA. OR Ø	DIAMETER	Xo	-	SOLENOID VALVE	6 THE MECHANICAL CONTRACTOR SHALL FIELD VERIEV ALL EXISTING CONDITIONS	
-	EA	EXHAUST AIR	M	-	MOTORIZED VALVE	PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER	
-	EAT	ENTERING AIR TEMPERATURE	Ŋ	-	T&P RELIEF VALVE		
-	EC-	ENVIRONMENTAL CONTROL (AHU ON THIS PROJECT)	\otimes	-	FLOAT AND THERMOSTATIC TRAP	7. DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL	
	EF-	EXHAUST FAN	Ŧ	-	BALL VALVE	INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.	
	FI	ELEVATION	Ø	_	PRESSURE GAGE	8. LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS,	
					TERMOMETER	ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS.	3.
-				-		9. THE MECHANICAL CONTRACTOR SHALL NOTE THAT. IN ADDITION TO THE	-
-	ESP	EXTERNAL STATIC PRESSURE	· •	-		SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN	
-	EWT	ENTERING WATER TEMPERATURE	ιμ	-		COMPLIANCE WITH APPLICABLE SEISMIC CODES.	
-	FCU-	FAN COIL UNIT		EX.	EXISTING TO REMAIN	10. ALL HVAC EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH	
-	FPM	FEET PER MINUTE		NEW	NEW WORK	WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO EQUIPMENT.	
-	FPS	FEET PER SECOND		DEM.	EXISTING TO BE REMOVED	11. THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK,	
-	GPM	GALLONS PER MINUTE	CHWS	-	CHILLED WATER SUPPLY	PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, DIFFUSERS, GRILLES, ETC.	4.
-	HP	HORSE POWER	CHWR	-	CHILLED WATER RETURN	12. ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND	
-	LAT	LEAVING AIR TEMPERATURE	CD	-	CONDENSATE DRAIN	ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT	
_	LF	LINEAR FEET	dts	-	DUAL TEMPERATURE SUPPLY	STANDARD SHALL APPLY.	
-	LWT	LEAVING WATER TEMPERATURE	DTR	-	DUAL TEMPERATURE RETURN	13. THE OWNER'S PERMANENT HVAC EQUIPMENT (NEW AND EXISTING) SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING	5.
	МВН	1000 BRITISH THERMAL UNITS PER HOUR	—— HWS ——	_	HOT WATER SUPPLY	COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE	
	MER		—— HWR ——	-	HOT WATER RETURN	TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK,	6
			PD	_	PUMP DISCHARGE, CONDENSATE		0.
-		NORMALLY CLOSED	LPS	_	I OW PRESSURE STEAM	AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS	
-	NIC			_			
-	NO	NORMALLY OPEN				15. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK,	
-	OAI	OUTSIDE AIR INTAKE	0			INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.	
-	PSI	POUNDS PER SQUARE INCH	(H)	-		16. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING	
-	RA	RETURN AIR	Μ	-	MOTORIZED DAMPER	FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.	
-	RF-	RETURN FAN	⊸ ∕-	-	AIR INTO REGISTER	17. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, ACCESS PANELS, PAINTING, AND FINAL RESTORATION REQUIRED TO	
-	RPM	REVOLUTIONS PER MINUTE	0	-	POINT OF CONNECTION DISCONNECTION	FACILITATE THE INSTALLATION OF HVAC DUCTWORK, CONTROL CONDUITS, AND PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR	
-	SA	SUPPLY AIR		TR	TOP REGISTER SUPPLY	OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS. AND OPEN AND PATCH SHAFTS	
-	SP	STATIC PRESSURE	- /	TR	TOP REGISTER RETURN	AND WALLS, AS REQUIRED TO EXECUTE THE MECHANICAL WORK.	
-	TDH	TOTAL DYNAMIC HEAD		UH	UNIT HEATER	18. WHERE THE DEMOLITION OF EXISTING PNEUMATIC CONTROL EQUIPMENT,	
-	TSP	TOTAL STATIC PRESSURE	\bigcirc	P-1	PUMP	CAP THE ENDS OF ALL EXISTING TO REMAIN PNEUMATIC LINES AIRTIGHT.	
-	TYP.	TYPICAL	\bowtie	-	SUPPLY DUCT UP	19. THE EXISTING CHIMNEY SHALL BE BRUSHED CLEAN OF ALL SOOT, DIRT, AND DEBRIS.	
_	U.O.N.	UNLESS OTHERWISE NOTED	[×〔	-	SUPPLY DUCT DOWN		
	WB	WET BULB TEMPERATURE		-	RETURN DUCT UP		
	WG	INCHES OF WATER GAUGE		_	RETURN DUCT DOWN		
	WMS	WIRE MESH SCREEN		_			
- 43				_			
		S-WAY VALVE					
	-	FLEXIBLE CONNECTION		VD			
×	-	2-WAY VALVE	<u> 6x8 </u> 	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN		
☆	-	PLUG VALVE	X	-	EQUIPMENT TAG		
¢	-	LOCK SHIELD VALVE	AXXX	-	AIR OUTLET CFM TAG		
人	-	GATE VALVE		_	SECTION CALLOUT		
	-	GLOBE VALVE	×				
	-	TEE DOWN	M				
C	-	ELBOW DOWN	X	-			
	-	TEE UP					
0—	-	ELBOW UP					
Д	-	CONCENTRIC REDUCER					
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- THE FOLLOWING:

COMMISSIONING SCOPE NOTES

THE CONTRACTOR SHALL HIRE A THIRD PARTY COMMISSIONING AGENT.

PRIOR TO COMMISSIONING, THE CONTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED BELOW HAVE BEEN SUCCESSFULLY COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR ENGINEER REVIEW AND APPROVAL.

PRE-FUNCTIONAL TESTS AND CHECKS (PREREQUISITES FOR COMMISSIONING):

THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT A MINIMUM -• ENSURE THAT ALL SUBMITTALS ARE COMPLETED AND APPROVED BY ENGINEER

AND COMMISSIONING AGENT. · CERTIFY THAT ALL SYSTEMS TO BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED AND STARTED; ACCORDING TO THE CONTRACT DOCUMENTS COMPLETE. ALL MANUFACTURER STARTUP

REQUIREMENTS. CERTIFY THAT ALL RELEVANT INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED; ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.

· CERTIFY THAT TESTING, ADJUSTING AND BALANCING (TAB) PROCEDURES HAVE BEEN COMPLETED AND THE TAB REPORT HAS BEEN SUBMITTED, DISCREPANCIES CORRECTED AND CORRECTIVE WORK APPROVED BY THE ENGINEER.

· SET SYSTEMS, SUBSYSTEMS AND EQUIPMENT TO OPERATING MODE TO BE TESTED (E.G., NORMAL SHUT DOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM CONDITIONS).

· VERIFY EACH OF THE SYSTEMS ONCE IT IS OPERATING IN A STEADY STATE CONDITION. REFER TO THE SEQUENCE OF OPERATIONS.

 INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS. SIGN OFF EACH ITEM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR EACH OPERATING CYCLE THAT APPLIES TO SYSTEM BEING TESTED. SIMULATE CONDITIONS REQUIRED IN ORDER TO TEST ALL SAFETY CUTOUTS.

ALARMS AND INTERLOCKS WITH LIFE SAFETY SYSTEMS DURING EACH MODE OF OPERATION WHEN APPLICABLE. ANNOTATE CHECKLIST OR DATA SHEET WHEN A DEFICIENCY IS OBSERVED.

VERIFY EQUIPMENT INTERFACE WITH MONITORING AND CONTROL SYSTEM.

AFTER PRE-AFUNCTIONAL TESTING IS COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL TESTING IN THE PRESENCE OF THE COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN ACCORDANCE WITH THE COMMISSIONING SPECIFICATIONS:

BOILERS (HOT WATER AND STEAM)

 BOILER PRIMARY PUMPS HOT WATER SECONDARY PUMPS

HEAT EXCHANGER

DDC CONTROLS

COMBUSTION AIR FAN & HEATER

ALL VALVES AND DAMPERS

AFTER FUNCTIONAL TESTING, THE COMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST RESULTS AND DOCUMENT ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ALL DEFICIENCIES. THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO THE OWNER/ENGINEER/CX AGENT THAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY SHALL NOT BE CONSIDERED RESOLVED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH THE CX AGENT.

PRIOR TO TURNOVER (OWNER ACCEPTANCE), A COMPLETE AND SUCCESSFUL DEMONSTRATION OF ALL SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.

IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR

PARTICIPATE IN MAINTENANCE ORIENTATION AND INSPECTION MEETING.

PARTICIPATE IN PROCEDURES MEETING FOR TESTING.

• EXECUTE INSTALLATION PRE-FUNCTIONAL CHECK SHEETS.

SUPPORT FUNCTIONAL TESTING WITH QUALIFIED TECHNICIANS.

• RESPOND TO CX DEFICIENCIES IN ACCORDANCE WITH OWNER SCHEDULE. PARTICIPATE IN FINAL REVIEW AT ACCEPTANCE MEETING.

· NOTIFY COMMISSIONING AGENT AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.



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BID ISSUE 09/16/22 1 ISSUE OR REVISION DATE No.

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PROJECT TITLE

HUDSON RIVER MUSEUM **BOILER REPLACEMENT** HUDSON RIVER MUSEUM 511 WARBURTON AVENUE YONKERS, NY 10701

DRAWING TITLE

MECHANICAL SYMBOLS, **ABBREVIATIONS & NOTES -BASE & ALTERNATE**

SCALE

SEAL

PROJECT NO. NCOY0006.00 DRAWING NO.

M0.1

RS DATE 01-17-2022

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MECHANICAL NEW WORK NOTES

- 1. LABEL ALL NEW HOT WATER, MAKEUP WATER, GAS, GAS VENT, COMBUSTION AIR, EXHAUST AIR IN THE BOILER IN ACCORDANCE WITH THE SPECIFICATIONS.
- 2. TAG ALL NEW MECHANICAL VALVES IN THE BOILER ROOM IN ACCORDANCE WITH SPECIFICATIONS. PROVIDE NEW VALVE TAG SCHEDULE AS PER SPECIFICATIONS.
- 3. PAINTING: PAINT ALL NEW ABOVEGROUND GAS PIPING WITH MACHINE ENAMEL PAINT. INDOOR SHALL BE YELLOW AND OUTDOOR SHALL BE GRAY.
- 4. CUT EXISTING ASPHALT DRIVEWAY AND CURB FOR INSTALLATION OF NEW UNDERGROUND GAS & ELECTRICAL. COORDINATE WITH ELECTRICAL PLANS. UNDERGROUND GAS PIPE SHALL BE INSTALLED AS PER UTILITY REQUIREMENTS. PROVIDE CLEAN BACKFILL. PROVIDE GRAVEL AND PATCH ASPHALT & CURB TO MATCH EXISTING.
- 5. TRENCH LAN FROM BOILER ROOM TO GLENVIEW FOR INSTALLATION OF UNDERGROUND GAS AND ELECTRIC. COORDINATE WITH ELECTRICAL PLANS. PROVIDE BEDDING AS PER UTILITY REQUIREMENTS. PROVIDE CLEAN BACKFILL AND TOP SOIL. REGRADE AND PLANT NEW GRASS IN AREA OF WORK. COORDINATE PIPE ROUTE WITH ARCHITECTURAL PLANS.

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	914.963.4550	
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	PROJECT TITLE	
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	HUDSON RIVER MUSE 511 WARBURTON AVE	UM NUE
	YONKERS, NY 1070	1
	DRAWING TITLE	
	MECHANICAL LIPPER	
	PART PLANS - BA	SE
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) MECHANICAL GLENVIEW BASEMENT DEMOLITION FLOOR PLAN SCALE: 3/16" = 1'-0"

M	ECHANICAL DEMOLITION NOTES		С	LA Consulting	g Engineers
1.	DEMOLISH EXISTING BOILERS INCLUDING ALL ASSOCIATED PIPING & WIRING. DEMOLISH CONCRETE PAD FOR NEW BOILER LAYOUT. COORDINATE WITH NEW LAYOUT AND KEEP PORTION OF PAD SUCH THAT IT IS 6" LONGER AND WIDER THAN BOILER FOOTPRINT.		5 H 9	0 Broadway, awthorne, NY 14.747.2800	10532
2.	DEMOLISH EXISTING BURNER, BURNER CONTROLS, CONTROL CABINETS, CONDUITS AND WIRING.		B B B B B B B B B B B B B B B B B B B	West 38th Str uite 501	⁻ eet,
3.	DEMOLISH EXISTING HW PUMPS #1&2 INCLUDING ALL PUMP CONTROLS, CONTROL CABINETS, CONDUITS, WIRING, PIPING, VALVES, & CONCRETE PADS.	CC	N NSULTING NGINEERS	ew York, NY 1 46.849.4110 lace.com	10018
4.	DEMOLISH EXISTING BOILER BREECHING ALL THE WAY UP THROUGH CHIMNEY. CHIMNEY SHALL BE BRUSHED CLEAN AND ALL SOOT AND DEBRIS REMOVED.	CLIENT	0		
5.	DEMOLISH ALL EXISTING STEAM & CONDENSATE PIPING AT THE BOILERS TO APPROXIMATE LOCATIONS INDICATED INCLUDING ALL VALVES, CONTROL VALVES, AND ASSOCIATED PNEUMATIC PIPING.		CITY (CITY HALL, 40 YONKE)F YONKERS SOUTH BRO RS NY 1070'	ADWAY 1
6.	DEMOLISH EXISTING FORCED DRAFT FANS AT THE BACK OF THE BOILERS INCLUDING ALL ASSOCIATED MOUNTING, FRAMING, AND WIRING.		914 THE HUDSC	4.377.6106	SEUM
7.	DEMOLISH EXPANSION TANKS AND ASSOCIATED PIPING AT THE CEILING.		511 WARE		NUE 1
8.	DEMOLISH STEAM TO HOT WATER HEAT EXCHANGER AND ALL ASSOCIATED PIPING, CONTROLS, AND STRUCTURAL SUPPORTS. CONCRETE PAD SHALL ALSO BE DEMOLISHED.		914	4.963.4550	
9.	DEMOLISH EXISTING CONDENSATE RECEIVER TANK AND ALL ASSOCIATED PIPING, CONTROLS, AND WIRING.				
10.	DEMOLISH EXISTING ABANDONED DOMESTIC HOT WATER TANK AND ASSOCIATED HEAT EXCHANGER AND ALL ASSOCIATED PIPING, VALVES AND CONTROLS. DEMOLISH CONCRETE PAD.				
11.	DEMOLISH ALL EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING IN GLENVIEW MANSION BASEMENT.				
12.	DEMOLISH MAIN 3-WAY HEATING CONTROL VALVE AND ALL ASSOCIATED PIPING AND CONTROL WIRING.				
13.	DEMOLISH EXISTING 3" GAS AND GAS BRANCHES TO EXISTING STEAM BOILERS INCLUDING ALL VALVES, HANGERS ETC. EXISTING 4" GAS PIPING TO REMAIN.				
14.	DEMOLISH EXISTING 1-1/2" ABANDONED GAS PIPE AND ALL ASSOCIATED HANGERS AND SUPPORTS THROUGH BASEMENT OF MANSION AND ALL THE WAY DOWN THE RAMP TO THE MUSEUM. PROVIDE LABEL AT MUSEUM WALL THAT PIPE IS ABANDONED IN PLACE. NOT SHOWN ON M1.1 FOR CLARITY.				
15. 16	DEMOLISH EXISTING 36X24 LOUVER.				
	TRAPS AND RISERS TO MAINS AT CEILING OF BASEMENT. ALL PIPING UNDERFLOOR SHALL BE ABANDONED IN PLACE.				
17. 18.	DEMOLISH EXISTING BELOW FLOOR ACCESS PANEL.				
	PNEUMATIC CONTROL VALVES. DEMOLISH PNEUMATIC PIPING AND CAP AT MAIN. DEMOLISH EXISTING CHILLED WATER PIPING TO VALVE AND CAP.				
19.	DEMOLISH EXISTING FLOOR DRAIN GRATING.				
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		DRAWING			
		. .	BASEMEN	T DEMOL	
			FLOOR	PLAN - B	ASE
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	MUSEUM MIDDLE LEVEL BASEMENT			AS SHOWN DRAWN BY	NCOY0006.00 DRAWING NO.
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) MECHANICAL GLENVIEW BASEMENT FLOOR PLAN SCALE: 3/16" = 1'-0"

	MECHANICAL NEW WORK NOTES #	OLA Consu	Iting Engineers
 R. LAURENCH, M. L. LOUID RUCK, FELLOWING THE LAURENCH AND RUCK AND RUCK	DIRT, AND DEBRIS. CLEAN OUT THE BASE OF THE CHIMNEY AFTER CLEANING AND VACUUM CLEAN. NEW WELDED CHIMNEY LINER SHALL BE INSTALLED. REFER TO DETAIL ON M7.3.	50 Broadwa Hawthorne, 914.747.28	ay, NY 10532 00
	2. INSULATE ALL NEW LPS, LPR AND BOILER FEED PIPING IN THE BASEMENT IN ACCORDANCE WITH THE SPECIFICATIONS.	8 West 38th Suite 501	n Street,
	3. REINSULATE ALL EXISTING LPS, LPR AND BOILER FEED PIPING IN THE BASEMENT WHERE INSULATION IS MISSING OR DAMAGED.	New York, I 646.849.41	NY 10018 10
	4. LABEL ALL NEW & EXISTING LPS, LPR, BOILER FEED PIPING AND GAS IN THE BASEMENT IN ACCORDANCE WITH THE SPECIFICATIONS.	ENGINEERS olace.com	
Control & CALUMAN FORCE DAMAGENER LAWARD IN LAWARD CLASSENS RECORD FORCE DAMAGENER LAWARD IN LAWARD CHAILS SEAM DESIGNATION More and the Control of Control Control of Control Control of Contro	5. TAG ALL NEW MECHANICAL VALVES IN THE BOILER ROOM IN ACCORDANCE WITH SPECIFICATIONS. TYPICAL FOR LPS, LPR, BOILER FEED AND GAS. PROVIDE NEW VALVE TAG SCHEDULE AS PER SPECIFICATIONS. UPDATE WITH NEW & EXISTING VALVES. # NEW		
	6. PROVIDE BAROMETRIC DAMPER IN EACH BOILER BREECHING BEFORE	YONKERS, NY 10 914.377.6106	0701
Protocol TransPortUPE Equipages in Data: Brochestin Nume: United ALL POLS IN WOLLS AND CELINEN IN DATA: BROCH AND REPORT POLS AND CELINEN A	 COMMON BREECHING. PROVIDE NEW STEAM TRAP AT THE END OF ALL STEAM DISTRIBUTION MAINS WHETHER SPECIFICALLY CALLED OUT ON THE DRAWING OR NOT. 	THE HUDSON RIVER 511 WARBURTON A	MUSEUM
	8. PROVIDE TEMPERATURE SENSORS IN BOILER BLOWDOWN LINES ARRANGED TO OPEN CW SOLENOID VALVE IN CW LINE UPON SENSING CONDENSATE.	YONKERS, NY 10 914.963.4550)
	9. PATCH ALL HOLES IN WALLS AND CEILING IN BOILER ROOM AND FIRE PROOF ALL PIPING PENETRATIONS WITH CEMENTITIOUS PRODUCT SIMILAR TO GCP MONOKOTE Z-106/HY.		
	10. EXISTING FLOOR DRAIN IN APPROXIMATE LOCATION INDICATED BELOW STEAM PIPING. SNAKE OUT ALL PIPING AND ENSURE THAT IT IS DRAINING PROPERLY. PROVIDE NEW CAST IRON COVER AND STRAINER FOR THE FLOOR DRAIN APPROXIMATELY 12X12. MEASURE EXACT DIMENSIONS IN FIELD. ALL BOILER BLOWDOWNS SHALL BE ROUTED TO THIS DRAIN.		
12. TILALL HOLES IN BOILET ROOM FLUOR WITH CONCRETE WHERE 13. FAMI FOILER ROOM FOR OWNER MAY EMAIL FAMI 14. PANT FOILER ROOM FOR AND EXERTING CASE PERMIS IN THE 15. PANT FOILER ROOM FOR AND EXERTING CASE PERMIS IN THE 16. PANT FOILER ROOM CAN DE SIGNING CASE PERMIS IN THE 17. FOILER ROOM CAN DE SIGNING CASE PERMIS IN THE 18. SHALL INVE BY CALLEND ROOM CASE PERMIS IN THE 18. SHALL INVE BY CALLEND ROOM CASE PERMIS IN THE 19. PANT FOILER ROOM CASE PERMIS IN THE 19. PANT FOILER ROOM CASE PERMIS IN THE 10. PANT FOILER ROOM CASE PERMIS INTO PERMIS 10. PANT FOIL ROOM CASE PERMIS INTO PERMIS 10. PANT FOIL ROOM CASE PERMIS INTO PERMIS 10. PANT FOIL ROOM CASE 10. PANT FOIL ROOM 10. PANT FOIL ROOM CASE 10. PANT FOIL ROOM CASE 10. PANT FOIL ROOM 10. PANT FOIL ROOM CASE 10. PANT FOIL ROOM 10. PANT FOIL ROOM CASE 10. PANT FOIL ROOM 10. PANT FOIL ROOM 10. PANT FOIL ROOM CASE 10. PANT FOIL ROOM 10. PANT FOI	11. POWERWASH AND CLEAN THE BOILER ROOM FLOOR AND BOILER PAD IN PREPARATION FOR PAINTING.		
ANN EQUIER ROOM FLORE WITH GRAY ENAMEL PAINT. AND TABLE ROOM FLORE WITH GRAY ENAMEL PAINT. SAME ADD ROOM PAINT ON LOW FINANCES INC. 2005 INTO THE SAME PAINT. IN ROOM PAINT AND CONTROL AND PAINT ON THE SAME PAINT. IN ROOM PAINT AND CONTROL AND PAINT ON THE SAME PAINT. IN ROOM PAINT AND CONTROL AND PAINT ON THE SAME PAINT. IN ROOM PAINT AND CONTROL AND PAINT ON THE SAME PAINT. IN ROOM PAINT AND CONTROL AND PAINT ON THE SAME PAINT. IN ROOM PAINT AND CONTROL AND PAINT ON THE SAME PAIN	12. FILL ALL HOLES IN BOILER ROOM FLOOR WITH CONCRETE WHERE UNDERGROUND CONDENSATE PIPING IS NO LONGER USED.		
	13. PAINT BOILER ROOM FLOOR WITH GRAY ENAMEL PAINT.		
	14. PAINT BOILER PAD WITH YELLOW ENAMEL PAINT. 15. PAINT ALL NEW GAS PIPING AND EXISTING GAS PIPING IN THE		
	BASEMENT AND OUTSIDE WITH MACHINE ENAMEL PAINT. INDOOR SHALL BE YELLOW AND OUTDOOR SHALL BE GRAY.		
	16. REPLACE BOARD AT WINDOW WITH SHEETMETAL PANEL. PANEL SHALL HAVE (2) GALVANIZED SHEETS WITH 1" INSULATION BETWEEN.		
	17. BOILER ROOM CONTROL PANEL BY DDC CONTRACTOR.		
	ACCORDING TO SPECIFICATIONS.		
Image: Solution of Sissue Constrained on may be made of this drawing and the constrained on may be made of this drawing and the constrained on may be made of this drawing and the constrained on may be made of this drawing and the constrained on may be made of this drawing and the constrained on may be made of this drawing and the constrained on may be made of this drawing and the constrained on may be made of this drawing and the constrained on may be made of this drawing and the constrained on the prior without theprior without the prior without the prior without thep			
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1 BID ISSUE 00/162 No. ISSUE OR REVISION DATE HUDSON RIVER MUSEUM BOILER REPLACEMENT HUDSON RIVER MUSEUM S11 WARBURTON AVENUE YONKERS, NY 10701 DRAWING TITLE MECHANICAL GLENVIEW MATTIC THIRD NUSEUM INDULE LEVEL BASEMENT NEW WORK FLOOR PLAN - BASE SEAL SCALE MUSEUM GLENVIEW SEAL SCALE NW DRAWING NO. NU NUSEUM GLENVIEW REVENT NEW WORK			
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No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of O'Dea, Lynch, Abbattis Consulting Engineers, PC. Copyright 9 2022 PROJECT TITLE HUDSON RIVER MUSEUM BOILER REPLACEMENT. HUDSON RIVER MUSEUM S11 WARBURTON AVENUE YONKERS, NY 10701 DRAWING TITLE Image: Roof CLENVIEW ROOF THIRD ROOF T		No. ISSUE OR REVISION	DATE
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	MUSEUM GLENVIEW	NW	

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) MECHANICAL GLENVIEW FIRST FLOOR PLAN SCALE: 3/16" = 1'-0"

MECHANICAL NEW WORK NOTES (#)	OLA Consulting Engineers50 Broadway, Hawthorne, NY 10532 914.747.2800So Broadway, Hawthorne, NY 10532 914.747.2800& West 38th Street, Suite 501 New York, NY 10018 646.849.4110olace.comCLIENTCITY OF YONKERSCITY OF YONKERSCITY HALL, 40 SOUTH BROADWAY YONKERS, NY 10701 914.377.6106THE HUDSON RIVER MUSEUM511 WARBURTON AVENUE
	YONKERS, NY 10701 914.963.4550
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GLENVIEW ROOF ATTIC THIRD MUSEUM UPPER LEVEL FIRST MUDLE LEVEL BASEMENT LOWER LEVEL LOWER LEVEL MUSEUM GLENVIEW	DRAWING TITLE MECHANICAL GLENVIEW FIRST FLOOR PLAN - BASE & ALTERNATE SEAL

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) MECHANICAL GLENVIEW SECOND FLOOR PLAN SCALE: 3/16" = 1'-0"

UIECHANICAL NEVV WORK NOTES		OLA Consulting	Engineers
PROVIDE NEW ANGLE SHUT OFF VALVE, AIR VENT, AND THERMOSTATIC TRAP. REPIPE AS REQUIRED TO ALLOW INSTALLATION OF VALVES.		Hawthorne, NY 914.747.2800	10532
		8 West 38th Stre Suite 501	eet,
		New York, NY 1 646.849.4110	0018
	E	olace.com	
	CLIENT	CITY OF YONKERS CITY HALL, 40 SOUTH BROA YONKERS, NY 10701 914.377.6106 THE HUDSON RIVER MUS 511 WARBURTON AVEN YONKERS, NY 10701 914.963.4550	NDWAY EUM UE
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	1 No. No use, re concepts s Consulting PROJECT	BID ISSUE ISSUE OR REVISION production or dissemination may be made of thi et forth without the prior written consent of O'De Engineers, PC. Copyright © 2022 TITLE IUDSON RIVER MU BOILER REPLACE	09/16/22 DATE s drawing and the ea, Lynch, Abbattista
	1 No. No use, reported to the second	BID ISSUE ISSUE OR REVISION production or dissemination may be made of thi et forth without the prior written consent of O'De Engineers, PC. Copyright © 2022 TITLE IUDSON RIVER MUSE BOILER REPLACE HUDSON RIVER MUSE 511 WARBURTON AVE YONKERS, NY 1070	09/16/22 DATE s drawing and the ea, Lynch, Abbattista USEUM MENT UM NUE 1
	1 No. No use, re concepts s Consulting PROJECT	BID ISSUE ISSUE OR REVISION production or dissemination may be made of thi et forth without the prior written consent of O'De Engineers, PC. Copyright © 2022 TITLE IUDSON RIVER MUSE BOILER REPLACE HUDSON RIVER MUSE 511 WARBURTON AVE 511 WARBURTON AVE YONKERS, NY 1070	USEUM NUE 1 VIEW I - BASE
GLENVIEW ROOF ATTIC THIRD ROOF SECOND UPPER LEVEL VIRST MIDDLE LEVEL BASEMFNT	1 No. No use, re concepts s Consulting PROJECT H DRAWING	BID ISSUE ISSUE OR REVISION production or dissemination may be made of thi et forth without the prior written consent of O'De Engineers, PC. Copyright © 2022 TITLE IUDSON RIVER MUSE BOILER REPLACE HUDSON RIVER MUSE 511 WARBURTON AVE 511 WARBURTON AVE YONKERS, NY 1070 TITLE MECHANICAL GLEN & ALTERNATE & ALTERNATE	UM NUE 1 VIEW I - BASE
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) MECHANICAL GLENVIEW THIRD FLOOR PLAN SCALE: 3/16" = 1'-0"

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 DISCONNECT EXISTING BRANCH LPS & LPR TO EACH RADIATOR. PROVIDE NEW ANGLE SHUT OFF VALVE, AIR VENT, AND THERMOSTATIC TRAP. REPIPE AS REQUIRED TO ALLOW INSTALLATION OF VALVES. 		50 Broadway Hawthorne, N 914.747.2800 8 West 38th Suite 501	NY 10532 0 Street,
	CC	Suite 501 New York, N 646.849.4110 olace.com	Y 10018 0
	CLIENT	CITY OF YONKEF	RS
		CITY HALL, 40 SOUTH BR YONKERS, NY 107 914.377.6106	ROADWAY 701
		THE HUDSON RIVER M 511 WARBURTON AV	IUSEUM 'ENUE
		YONKERS, NY 107 914.963.4550	701
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ROOF ATTIC THIRD ROOF SECOND UPPER LEVEL FIRST MIDULE LEVEL BASEMENT	Image: second	BID ISSUE BID ISSUE ISSUE OR REVISION Production or dissemination may be made et forth without the prior written consent of Engineers, PC. Copyright © 2022 TITLE IUDSON RIVER MU 511 WARBURTON A YONKERS, NY 10 TITLE CHANICAL GLENV FLOOR PLAN - B ALTERNATE	OPROJECT NO. NCOYODOG.00

MECHANICAL GLENVIEW BASEMENT DEMOLITION FLOOR PLAN

MECHANICAL DEMOLITION NOTES 🕻	#	
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- DEMOLISH EXISTING BOILERS INCLUDING ALL ASSOCIATED PIPING & WIRING. DEMOLISH CONCRETE PAD FOR NEW BOILER LAYOUT. COORDINATE WITH NEW LAYOUT AND KEEP PORTION OF PAD SUCH THAT IT IS 6" LONGER AND WIDER THAN BOILER FOOTPRINT.
- 2. DEMOLISH EXISTING BURNER, BURNER CONTROLS, CONTROL CABINETS, CONDUITS AND WIRING.
- 3. DEMOLISH EXISTING HW PUMPS #1&2 INCLUDING ALL PUMP CONTROLS, CONTROL CABINETS, CONDUITS, WIRING, PIPING, VALVES, & CONCRETE PADS.
- 4. DEMOLISH EXISTING BOILER BREECHING ALL THE WAY UP THROUGH CHIMNEY. CHIMNEY SHALL BE BRUSHED CLEAN AND ALL SOOT AND DEBRIS REMOVED.
- 5. DEMOLISH ALL EXISTING STEAM & CONDENSATE PIPING AT THE BOILERS TO APPROXIMATE LOCATIONS INDICATED INCLUDING ALL VALVES, CONTROL VALVES, AND ASSOCIATED PNEUMATIC PIPING.
- 6. DEMOLISH EXISTING FORCED DRAFT FANS AT THE BACK OF THE BOILERS INCLUDING ALL ASSOCIATED MOUNTING, FRAMING, AND WIRING.
- 7. DEMOLISH EXPANSION TANKS AND ASSOCIATED PIPING AT THE CEILING.
- 8. DEMOLISH STEAM TO HOT WATER HEAT EXCHANGER AND ALL ASSOCIATED PIPING, CONTROLS, AND STRUCTURAL SUPPORTS. CONCRETE PAD SHALL ALSO BE DEMOLISHED.
- 9. DEMOLISH EXISTING CONDENSATE RECEIVER TANK AND ALL ASSOCIATED PIPING, CONTROLS, AND WIRING.
- 10. DEMOLISH EXISTING ABANDONED DOMESTIC HOT WATER TANK AND ASSOCIATED HEAT EXCHANGER AND ALL ASSOCIATED PIPING, VALVES AND CONTROLS. DEMOLISH CONCRETE PAD.
- 11. DEMOLISH ALL EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING IN BOILER ROOM AND CHILLER ROOM.
- 12. DEMOLISH MAIN 3-WAY HEATING CONTROL VALVE AND ALL ASSOCIATED PIPING AND CONTROL WIRING.
- 13. DEMOLISH EXISTING 3" GAS AND GAS BRANCHES TO EXISTING STEAM BOILERS INCLUDING ALL VALVES, HANGERS ETC. EXISTING 4" GAS PIPING TO REMAIN.
- 14. DEMOLISH EXISTING 1-1/2" ABANDONED GAS PIPE AND ALL ASSOCIATED HANGERS AND SUPPORTS THROUGH BASEMENT OF MANSION AND ALL THE WAY DOWN THE RAMP TO THE MUSEUM. PROVIDE LABEL AT MUSEUM WALL THAT PIPE IS ABANDONED IN PLACE.
- 15. DEMOLISH EXISTING 36X24 LOUVER.
- 16. DEMOLISH EXISTING CONDENSATE PIPING INCLUDING ALL STEAM TRAPS AND RISERS TO MAINS AT CEILING OF BASEMENT. ALL PIPING UNDERFLOOR SHALL BE ABANDONED IN PLACE.
- 17. DEMOLISH EXISTING BELOW FLOOR ACCESS PANEL.
- 18. DEMOLISH EXISTING FLOOR DRAIN GRATING.

CONSULTING ENGINEERS	

CLIENT

OLA Consulting Engineers

50 Broadway, Hawthorne, NY 10532 914.747.2800

8 West 38th Street, Suite 501 New York, NY 10018 646.849.4110

olace.com

CITY OF YONKERS

CITY HALL, 40 SOUTH BROADWAY YONKERS, NY 10701 914.377.6106

THE HUDSON RIVER MUSEUM

511 WARBURTON AVENUE YONKERS, NY 10701 914.963.4550

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PROJECT TITLE

HUDSON RIVER MUSEUM **BOILER REPLACEMENT** HUDSON RIVER MUSEUM **511 WARBURTON AVENUE** YONKERS, NY 10701

DRAWING TITLE

MECHANICAL GLENVIEW **BASEMENT DEMOLITION** FLOOR PLAN - ALTERNATE

SCALE	PROJECT NO.
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DRAWN BY	DRAWING NO.
NW	
CHECKED BY RS	M2.

01-17-2022

DRAWING NO.
M2.6

NCOY0006.00

MECHANICAL GLENVIEW BASEMENT FLOOR PLAN

۱.			OLA Con	sulting Engineers
	THE EXISTING CHIMNEY SHALL BE BRUSHED CLEAN OF ALL SOOT, DIRT, AND DEBRIS. CLEAN OUT THE BASE OF THE CHIMNEY AFTER CLEANING AND VACUUM CLEAN. NEW WELDED CHIMNEY LINER SHALL BE INSTALLED WITH INDUCED DRAFT FAN (IDF-1) AT THE TOP OF THE CHIMNEY. REFER TO DETAIL ON M7.4.		50 Broad Hawthorn 914.747.2	way, ie, NY 10532 2800
2.	INSULATE ALL NEW LPS, LPR BOILER FEED AND HWS&R PIPING IN THE BASEMENT IN ACCORDANCE WITH THE SPECIFICATIONS.		8 West 3 Suite 501	8th Street,
3.	REINSULATE ALL EXISTING LPS, LPR AND BOILER FEED PIPING IN THE BASEMENT WHERE INSULATION IS MISSING OR DAMAGED.	CO	646.849.4	4110
4.	LABEL ALL NEW & EXISTING LPS, LPR, BOILER FEED, HWS&R AND GAS		olace.cor	n
5.	TAG ALL NEW MECHANICAL VALVES IN THE BOILER ROOM IN ACCORDANCE WITH SPECIFICATIONS. TYPICAL FOR LPS, LPR, BOILER FEED, GAS AND HWS&R. PROVIDE NEW VALVE TAG SCHEDULE AS PER SPECIFICATIONS. UPDATE WITH NEW & EXISTING VALVES. # NEW	CLIENT	CITY OF YON CITY HALL, 40 SOUTH	KERS I BROADWAY
3 .	VALVES IN SEQUENCE. PROVIDE BAROMETRIC DAMPER IN EACH BOILER BREECHING BEFORE		914.377.61	06 06
7.	COMMON BREECHING. PROVIDE NEW STEAM TRAP AT THE END OF ALL STEAM DISTRIBUTION MAINS IN THE BASEMENT WHETHER SPECIFICALLY CALLED OUT ON THE DRAWING OR NOT.		THE HUDSON RIVE 511 WARBURTON YONKERS, NY	R MUSEUM I AVENUE 7 10701
3.	PROVIDE TEMPERATURE SENSORS IN BOILER BLOWDOWN LINES ARRANGED TO OPEN CW SOLENOID VALVE IN CW LINE UPON SENSING CONDENSATE.		914.963.45	50
€.	PATCH ALL HOLES IN WALLS AND CEILING IN BOILER ROOM AND FIRE PROOF ALL PIPING PENETRATIONS WITH CEMENTITIOUS PRODUCT SIMILAR TO GCP MONOKOTE Z-106/HY.			
10.	EXISTING FLOOR DRAIN IN APPROXIMATE LOCATION INDICATED BELOW STEAM PIPING. SNAKE OUT ALL PIPING AND ENSURE THAT IT IS DRAINING PROPERLY. PROVIDE NEW CAST IRON COVER AND STRAINER FOR THE FLOOR DRAIN APPROXIMATELY 12X12. MEASURE EXACT DIMENSIONS IN FIELD. ALL BOILER BLOWDOWNS SHALL BE ROUTED TO THIS DRAIN.			
1.	POWERWASH AND CLEAN THE BOILER ROOM FLOOR AND BOILER PAD IN PREPARATION FOR PAINTING.			
2.	FILL ALL HOLES IN BOILER ROOM FLOOR WITH CONCRETE WHERE			
3.	PAINT BOILER ROOM FLOOR WITH GRAY ENAMEL PAINT.			
4.	PAINT NEW EQUIPMENT PADS WITH YELLOW ENAMEL PAINT.			
5.	PAINT ALL NEW GAS PIPING AND EXISTING GAS PIPING IN THE BASEMENT WITH MACHINE ENAMEL YELLOW PAINT.			
6.	NEW 36X24 LOUVER WITH BACKDRAFT DAMPER FOR PRESSURE RELIEF.			
7.	BOILER ROOM CONTROL PANEL BY DDC CONTRACTOR.			
8.	BOILER DRAFT SYSTEM PRESSURE CONTROL PANEL(PCP) MOUNTED ON WALL.			
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	GLENVIEW ROOF ATTIC THIRD ROOF SECOND UPPER LEVEL FIRST MIDDLE LEVEL BASEMENT LOWER LEVEL	1 No. No.use, representation Consulting PROJECT H DRAWING DRAWING FL SEAL	BID ISSUE ISSUE OR REVISION production or dissemination may be et forth without the prior written cons Engineers, PC. Copyright © 2022 TITLE IUDSON RIVER BOILER REPLA HUDSON RIVER 511 WARBURTO YONKERS, N TITLE MECHANICAL G BASEMENT NE OOR PLAN - A	O9/16/ DAT made of this drawing and the sent of O'Dea, Lynch, Abbatti R MUSEUM N AVENUE Y 10701 ALENVIEW Y 10701 ALENVIEW SUM N AVENUE Y 10701
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01-17-2022

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UNITID	MFG	MODEL #	LOCATION	AREA SERVED	WEIGHT	INTERLOCK	GAS								
					(lbs)		IN (MBH)	OUT (MBH)	EFF %	PRESSURE	SIZE (IN)	VOL (GAL)	MIN (GPM)	MAX (GPM)	(
B-1,2	FULTON	EDR+2500	BOILER ROOM	MUSEUM	3267	BP-1,2	2500	2420	96%	4"-14"	1-1/2	80	25	350	
															Γ

NOTES:

1. PROVIDE THE FOLLOWING

PURE CONTROL™ CAPABII BACNET PROTONODE WIT

PH NEUTRALIZATION KIT

DISCONNECT SWITCH

MULTIPLE BOILER CONDEN

SECONDARY (AUXILIARY) 2. BOILER CONTROLS SHALL

3. CONTRACTOR SHALL HIRE

				P	UMP SCHEE	DUL
UNIT ID	MFG	MODEL #	LOCATION	ТҮРЕ	INTERLOCK	CL
						FLO\
HWP-1	ARMSTRONG	4030 - 3X2X8 1800 RPM	BOILER ROOM	BASE MOUNT END SUCTION	DDC CONTROLLER	
HWP-2	ARMSTRONG	4030 - 3X2X8 1800 RPM	BOILER ROOM	BASE MOUNT END SUCTION	DDC CONTROLLER	
BP-1	ARMSTRONG	4380 - 2X2X4 3300 RPM	HEATER ROOM	CLOSE COUPLED INLINE	B-1	
BP-2	ARMSTRONG	4380 - 2X2X4 3300 RPM	HEATER ROOM	CLOSE COUPLED INLINE	B-2	

					HOT WATER	BOILER SCHE	DULE								OLA Consulting Engineers	
MODEL # PN EDR+2500	LOCATION A BOILER ROOM	AREA SERVED	WEIGHT INTERLOCK (lbs) 3267 BP-1,2	IN (MBH) OUT (M 2500 2420	GAS BH) EFF % PRESSU) 96% 4"-14	RE SIZE (IN) VOL (GAI ' 1-1/2 80) MIN (GPM) N 25	HO MAX (GPM) (PSI) 350 1.8	DT WATER DESIGN (GPM) -	EWT (F°) LWT (F° 140 180) SIZE (IN) (V/Ph/ 4 208/3/	ELECTRI /Hz) FLA /60 23	CAL MCA MOCP (A) 29 -		50 Broadway, Hawthorne, NY 10532 914.747.2800 8 West 38th Street,	
IDE THE FOLLOWING OP CONTROL™ CAPABILITIE ET PROTONODE WITH RE	PTIONS FOR EACH U ES EMOTE CLOUD ACC	NIT: ESS					· · ·				· · ·			CONSULTING ENGINEERS	Suite 501 New York, NY 10018 646.849.4110 olace.com	
NNECT SWITCH PLE BOILER CONDENSAT NDARY (AUXILIARY) LOW R CONTROLS SHALL BE IN RACTOR SHALL HIRE THE	TE DRAIN TRAP V WATER CUTOFF KI NTEGRATED WITH T E FULTON AUTHORIZ	T HE NEW DDC (ZED START UP (CONTROLLER. CONTRACTOR TO STAR	F AND ADJUST BOILEF	R. SUBMIT FULL STA	RT UP REPORT TO ENGI	NEER FOR APPR	Roval.						CLIENT CIT CITY HALL, YON	Y OF YONKERS 40 SOUTH BROADWAY NKERS, NY 10701 914.377.6106	
			D MFG MC	DEL #				CHEDULE CURRE FLOW (GF	ENT SETPOINT PM) HEAD (FT) 1	FUTURE SETPOII	NT MOTOR ELE D (FT) (HP) V	ECTRICAL STARTER	LOCATION	THE HUE 511 WA YOM	SON RIVER MUSEUM RBURTON AVENUE KERS, NY 10701 914.963.4550	
		HWP-2 BP-1 BP-2	ARMSTRONG 403 ARMSTRONG 438 ARMSTRONG 438	0 - 3X2X8 1800 RPM 0 - 2X2X4 3300 RPM 0 - 2X2X4 3300 RPM	BOILER ROOM BA HEATER ROOM (HEATER ROOM (SE MOUNT END SUCTIO	DN DDC CONTF B-1 B-2	ROLLER 90 75 75	45 10 10	150 6 125 1 125 1	50 5.0 20 .5 1.5 20 .5 1.5 20	08 / 3 / 60 VFD 08 / 3 / 60 INTEGR/ 08 / 3 / 60 INTEGR/	HEATER ROOM AL HEATER ROOM AL HEATER ROOM			
		NOTES	S: 1. ALL PUMPS SHALL BE 2. ALL MOTORS SHALL E 3. VARIABLE FREQUENC	CAST IRON BODY, BR E INVERTER DUTY AN Y DRIVES AND DISCO	CONZE FITTED, BRON ID SHALL BE PROVID INNECT SWITCHES S	NZE IMPELLER. REFER TO DED WITH CONTROLS FO HALL BE FURNISHED BY) SPECIFICATIOI)R VARIABLE SP THE MECHANIC	N FOR PUMP CON PEED APPLICATION CAL CONTRACTOR	NSTRUCTION. NS. R AND INSTALLED	BY THE ELECTRICAL	CONTRACTOR.					
	Γ	EQUIPI	MENT NOT	ES												
	1	. <u>OUTSIDE</u> NON-CO SHEET M ASTM A- GASKET DUCT GI TO 15"W COMBUS ADAPTE 2. <u>AUTOMA</u> AAE-750 PRESSU	<u>E AIR INTAKE:</u> F NDENSING APPLIAN METAL CONNECTOR 653. ALL DUCT CC CREATING AN AIF UAGE SHALL BE SE C WITH A MINIMUM STIBLES. PROVIDE RS, WALL SLEEVES ATIC AIR ELIMINATO WITH 250°F MA	OR ALL GAS F ICES SHALL BE S S, INC. ALL DUCT NNECTIONS SHAL R-TIGHT CONNEC LECTED FOR POS GAUGE OF 24. PR STRAIGHT SEC , AND SCREENED R: ARMSTRONG H XIMUM OPERAT M CONNECTION.	FIRED DIRECT INGLE-WALL SPI WORK IS 4-PLY S L BE MADE WIT TION MEETING A SITIVE, NEUTRAL ODUCT IS RATEL TIONS, ELBOWS TERMINATIONS.	VENTING CONDEI RAL GALVANIZED S SPIRAL LOCKSEAM H A DOUBLE LEGG ASTM A-653. SINC ., AND NEGATIVE E D FOR ZERO CLEAF S, OFFSETS, CON UTOMATIC AIR VEN URE, 133 PSIG	NSING & TEEL BY MEETING ED EPDM GLE-WALL RAFT UP ANCE TO NECTION T MODEL MAX AIR	 BACKFLOV BACKFLOV ELECTRIC MOUNTED UNIT SHAL 19.2A AT 20 ELECTRIC WITH REC CONTROLL 208V/3PH/6 	<u>W PREVENTER</u> W PREVENTER. UNIT HEATER UNIT HEATER LL BE CONTRO 08V/3PH/60HZ. UNIT HEATER CESSED MOU LED BY THE 60HZ. FURNISH	<u>:</u> SIMILAR TO W. SIZE SHALL BE <u>R (EUH-1):</u> SH WITH SURFACE DLLED BY THE IN FURNISH DISCO (EUH-2): SHALL INTING KIT CA INTERNAL THE H DISCONNECT S	ATTS MODEL LF 3/4". ALL BE SIMILA MOUNTING FR NTERNAL THERM ONNECT SWITCH BE SIMILAR TO (PABLE OF 13, ERMOSTAT. E SWITCH.	F009 REDUCED AR TO QMARK RAME CAPABLE MOSTAT. ELEC I. QMARK CU9450 ,650 BTU/H. ELECTRICAL SH	PRESSURE ZONE SSHO4008 WALL OF 13,650 BTU/H TRICAL SHALL BE 4201FF1B20SSP00 UNIT SHALL BE IALL BE 20A AT			
	3	 <u>HOT WA</u> 350°F M, INLET & <u>HOT WA</u> HIGH, 13 VALVE, 3 PRESSU ACCORE <u>FUSIBLE</u> RATED F 	ATER INLINE AIR PL AXIMUM WORKING OUTLET CONNECTI TER EXPANSION TA 32 GALLONS, WITH 3/4" DRAIN PLUG, 24 RE, FACTORY PRE DANCE WITH ASME LINK GAS SAFETY FOR 150 PSI GAS PR	RGER: ARMSTRO TEMPERATURE, 1 ONS WITH FLANGE NK: SHALL BE AR 1 1-1/2" NPT SYS 10°F MAX OPERAT -CHARGED TO 12 SECTION VIII. <u>VALVE:</u> SHALL ESSURE.	DNG IN-LINE AIR 50 PSIG MAXIMU ES, 1½" NPT AIR (MSTRONG MODE STEM CONNECT FING TEMPERATIO PSIG. UNIT SH BE BY PREFERF	SEPARATOR MODI JM WORKING PRES OUTLET, 1" NPT DR EL A500-L, 24" DIAM ION, 1-1/2" NPT C JRE, 125 PSI MAX V ALL BE MANUFAC ⁻ RED UTILITIES SIZ	EL VAS-4, SURE, 4" AIN. ETER, 80" HARGING VORKING TURED IN E 2" AND	 18. <u>CONDENS/</u> CAPABLE STAINLESS AND SEND 120V/1PH/6 19. <u>LOW PRES</u> EFFICIENC 639 515 GAS FAC INS DUI 	ATE PUMP (CP OF 40GPH AT S STEEL PAN V O AN ALARM T 60HZ. FURNISH SSURE STEAM CY, CAST IRON, MBH GAS INPU 5 MBH GROSS (S 80% EFFICIEN CTORY TESTEE SULATED STEEL	<u>-1):</u> SHALL BE L 12FT OF HEAD WITH LEAK DETE O THE BMS IN ⁻¹ I DISCONNECT S <u>BOILERS (B-3,</u> SECTIONAL STE JT. DUTPUT. NT O SECTIONS. JACKET.	DEEDACTORY	CCA-20ULS LOW E PUMP SHALL GED TO SHUT (A LEAK. ELEC WEIL-MCLAIN TED AS FOLLOV	PROFILE, 1/30HF BE MOUNTED IN DFF THE BOILERS TRICAL SHALL BE MODEL 580, HIGH VS:			
	7	5. <u>CHEMIC</u> 5-GALLC STEEL. FEEDER 3-1/2" W BE EPO> DDC CO IP CON MAINTEN LOGGING EQUIPMI	AL SHOT FEEDER ON MODEL DBF-5HP TANK HEADS SHAL SHALL BE RATED A VITH CAST IRON CA (Y COATED. PROVIDE ITROLLER WITH NANCE. PROVIDE G, ALARM SUPERV ENT AND STANDALC	(HOT WATER S THE FEEDER SHI L BE 9 GAUGE S AT 300 PSI AND TO P AND CLOSURE DE OPTIONAL LEG SCHNEIDER ELEC ADVANCED DISP AS-P DEVICES AS SION AND GENEF ONE CONTROLLER	SYSTEM): SHAL ELL SHALL BE CO STEEL FOR 5 G/ O 2000F. TANK S GASKET. TANK S & 5 MICRON FI CTRIC STANDALC PLAY V3 FOR S REQUIRED FO RAL COMMUNIC/ R. REFER TO SPE	L BE NEPTUNE Y ONSTRUCTED OF 1 ALLON UNITS. THE SHALL HAVE A WIDE & ALL ACCESSORIE LTER. ONE UNITARY MP-C LOCAL OPERATI R CONTROL LOGIC ATION BETWEEN T ECIFICATION SECTI	VERTICAL 0 GAUGE BYPASS 5 MOUTH, 5S SHALL SMARTX ON AND C, TREND HE FIELD ON.	 CAS OBS CLE FLU HXT 3" C 3" C 3" C 15 F LOV STE GAI FUF CEF WA 	ST IRON FLUE SERVATION PC EANOUT PLATE JE BRUSH. T BARS. OF INSULATION PSI ASME SAFE W LIMIT AND HI EAM PRESSURI JUGE COCKS, G RNISH THE FOL RAMIC FIBER R ATER LEVEL CC	COLLAR WITH BI COLLAR WITH BI ORTS ON FRONT S WITH REUSAE GH LIMIT PRESS E GAUGE SIPHO LASS AND GUAF LOWING FEATU COPE SEAL BETW NTROLS.	UILT-IN BREACH AND BACK SEC BLE GASKETS. OUTLET. BURE CONTROLS N. RDS. RES & OPTIONS VEEN SECTIONS	iing damper. Tions. S.				
SEUM _PG		6. <u>HORIZOI</u> HV-118A EWT, 16 1550 RPI GUARD, VIBRATI	NTAL DISCHARGE F , HORIZONTAL DISC 0°F LWT, 2.2' WPD M, 0.8 AMPS, 1.0 MC AND AIR DEFLECT ON ISOLATORS. FU	HOT_WATER_UNIT HARGE CONFIGU (FT H2O), 500 CFM A, 15 MOCP, 115V/ ON LOUVER. HAI RNISH DISCONNE	<u>HEATER (UH-1)</u> : RATION, RATED M. MOTOR SHAI (1¢/60HZ. PROVII NG UNIT FROM E CT SWITCH.	AT 16.1 MBH, 1.9 G LL BE RATED AT 10 DE WALL THERMOS BUILDING STRUCTU	N MODEL PM, 180°F S WATTS, TAT, FAN IRE WITH	• BUF • (2) - (1) • DR/ • SID • DU/	RNER CONTRO LOW WATER C) FLOAT TYPE AFT CONTROL DE INSPECTION AL-RANGE MAN	ILS. SUT-OFF SWITCH & (1) PROBE TYP DAMPERS. TAPPINGS WITH NOMETER.	HES WITH MANU. PE. H PLUGS - 2 PER	JAL RESET OPE	RATING CONTROL	- 1 BID ISSUE		2
2" LPG	g	D. <u>BOILER</u> PUMPS I PANEL. THE FOI MAKE-UI PANEL.	FEED UNIT (BF-1): S MODEL #4632-KDF V PUMPS SHALL BE LLOWING OPTIONS P WATER VALVE V PROVIDE PUMP FAI	HALL BE STERLC /ITH 30 GALLON S CAPABLLE OF 2.75 THERMOMETER, /ITH REVERSE AC LURE ALARM AT B	O 4600 SERIES E STEEL TANK AND 5 GPM @ 28 PSI ISOLATION VAL CTING FLOAT SV 3MS. ELECTRICA	OUPLEX 3/4HP CON DUPLEX NEMA 12 (AND UP TO 300°F. VES, SOLENOID O WITCH, NEMA 12 (L SHALL BE 208V/1	DENSATE CONTROL PROVIDE PERATED CONTROL PH/60HZ.	15. <u>FORCED D</u> 812 MBH G • SIN 208 • 1/3 • 120 • POV	DRAFT GAS BUI GAS. PROVIDE NGLE POINT E 3V/1¢/60HZ, WIT HP 208V/1¢/60 V CONTROL TF	RNERS: SHALL E THE FOLLOWING XTERNAL POW TH SINGLE POINT BLOWER MOTOF RANSFORMER. RECTOR SCS GI	BE POWER FLAM G FEATURES & O ER CONNECTIO T FACTORY DISC R. RAPHIC DISPLAY	ME MODEL C1-0 OPTIONS: ON AT THE BU CONNECT SWIT	-10 GAS BURNER IRNER SHALL BE CH.	No use, reproduction or disse concepts set forth without the Consulting Engineers, PC. Co	mination may be made of this drawing and the prior written consent of O'Dea, Lynch, Abbattist pyright © 2022	a
<u>2</u> МВН JT	1	0. <u>CONDEN</u> 1/3HP C SHALL B SELECT 120V/1PH	NSATE TRANSFER P ONDENSATE PUMF E CAPABLE OF 3 GF OR. PROVIDE PI H/60HZ. FURNISH D	UMPS (CT-1, CT-2 S MODEL #4122-0 M @ 20 PSI AND U JMP FAILURE AI SCONNECT SWIT(UNIT (CAF-1): SH/	<u>):</u> Shall be ste G with 15 Gal JP to 250°F. PR LARM AT BMS. CH. ALL BE CARRIER	RLCO 4100 SERIES LON STEEL TANK. OVIDE STARTER W ELECTRICAL S MODEL #42DHA06	SIMPLEX PUMPS TH H-O-A HALL BE	IND LEV WA • 5.6 • FLA • GAS • MAI	DICATING LAME VEL AND % OU ATER FLOW, TO - 14" WC GAS I AME SAFEGUAE S SAFETY VAL N/AUTO SWITC	P PACKAGE AND TPUT OF FEED TAL DISSOLVED NLET PRESSURE RD WITH UV AND /E. H - MANUAL POT	O OPTIONAL WA WATER VALVE, SOLIDS (TDS). E. PREPURGE WIT	TER LEVEL SE STEAM FLOW, TH INTERRUPTE	T POINT, ACTUAL GAS FLOW, FEED	BOILER HUDS 511 W	NIVER MUSEUM REPLACEMENT ON RIVER MUSEUM ARBURTON AVENUE NKERS, NY 10701	
	1	OF 450 C DUCT S TEMPER CONTRO	CFM @ 0.3 W.C. SP. STAT AND AIR FLC ATURE AND BE DLS REQUIRED FOR ZED DAMPERS: SH	ELECTRICAL SHAI	LL BE 19.9MCA (NIT SHALL MAIN /ITH BOILER OI TO BMS. FURNIS	© 208V/3PH/60HZ. ITAIN 50F DISCHA PERATION. PROV H DISCONNECT SW DEEP EXTRUDED A	PROVIDE RGE AIR /IDE ALL ITCH.	 FUL HIG SPA PRO AIR OPI 	LL MODULATIO GH AND LOW G/ ARK IGNITED G OVEN COMBUS R SAFETY SWIT ERATION, PRO	N WITH AUTOMA AS PRESSURE S AS PILOT WITH I TION AIR. CH & LEAKAGE T VEN LOW FIRE S	ATIC AIR CONTRO WITCHES. PILOT GAS TRAII TEST COCK. START, & AUTOM	OL. IN & MAIN GAS (MATIC AIR CONT	COCKS. ROLS.	DRAWING TITLE MECHANIC EQUIPME	AL SCHEDULES &	
	1	3. <u>LOUVER</u> EXTRUD EXTRUD COLOR (SHALL BE 120V/10 SHALL BE RUSK ED ALUMINUM DRA ED ALUMINUM FRA	N MODEL ELF375 NABLE BLADES A ME. AND 1/2" G/	AX. FURNISH DIS DX, 4" DEEP, WI T 37.5° AND 5-3/3 ALVANIZED STEI	CONNECT SWITCH TH 54% FREE ARE 2" SPACING, 4" DEE EL BIRD SCREEN.	A, 6063T5 P 6063T5 SUBMIT	 SIE REC SIE POS MO FOL 	EMANS 1" VEI GULATOR AND EMENS LMV3 L SITIONING ACT DBUS MODULE UR RELAYS: BC	NTLESS GAS (2) MANUAL SHU INKAGE-LESS B UATOR, FSG AN WITH BACNET DILER ON, FA DA	TRAIN, DUAL S JT OFF BALL VAL URNER MANAGE D AZL DISPLAY. - CONNECT TO N MPER, COMMON	SSO GAS VAL LVES. EMENT SYSTEM FULL MODULA NEW ANDOVER N ALARM, BG ST	VES, PRESSURE 1 WITH PARALLEL TION. SYSTEM. ATION.	SEAL	SCALE PROJECT NO. AS SHOWN NCOY0006.00	
	1	4. <u>TEMPER</u> SERIES CONTRO DIRECT TEMPER	ATURE ACTUATED SELF MODULATING DL FROM 40F TO 2 ACTING BELLOWS ATURE SENSING BI	<u>WATER</u> <u>REGUL</u> THERMOSTATIC 75F. STURDY, BR , BUNA-N SEAT JLB, PROTECTED	ATING VALVE: COOLING CONT ASS ALLOY CON DISC, REPLACE BY HEAVY DUTY	SHALL BE STERL TROL VALVE WITH NSTRUCTION, HEA ABLE SEAT BEADS ARMOR.	NG 56-T (PRECISE S /Y DUTY, 7 , BRASS	CONTRACTOR START AND A APPROVAL.	SHALL HIRE ADJUST BURN	THE POWERFLA ERS. SUBMIT F	AME AUTHORIZE FULL START UF	ED START UP P REPORT TC	CONTRACTOR TO ENGINEER FOR		DRAWN BY NW CHECKED BY RS DATE 01-17-2022	

UNIT ID	MFG	MODEL #	LOCATION	ТҮРЕ	INTERLOCK	OCK CURRENT SETPOINT		FSETPOINT MOTOR		STARTER	LOCATION
						FLOW (GPM)	HEAD (FT)	(HP)	V/Ø/HZ		
HWP-1	ARMSTRONG	4030 - 3X1.5X10 1800 RPM	BOILER ROOM	BASE MOUNT END SUCTION	DDC CONTROLLER	90	75	5.0	208/3/60	VFD	CHILLER ROOM
HWP-2	ARMSTRONG	4280 - 3X1.5X10 1800 RPM	BOILER ROOM	BASE MOUNT END SUCTION	DDC CONTROLLER	90	75	5.0	208/3/60	VFD	CHILLER ROOM

NOTES:

1. ALL PUMPS SHALL BE CAST IRON BODY, BRONZE FITTED, BRONZE IMPELLER. REFER TO SPECIFICATION FOR PUMP CONSTRUCTION. 2. ALL MOTORS SHALL BE INVERTER DUTY AND SHALL BE PROVIDED WITH CONTROLS FOR VARIABLE SPEED APPLICATIONS. 3. VARIABLE FREQUENCY DRIVES AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

••	AUTOMATIC AIR ELIMINATOR: ARMSTRONG HIGH CAPACITY AUTOMATIC AIR VENT MODEL	15. <u>FC</u>
	PRESSURE, 3/4" NPT SYSTEM CONNECTION.	25
2.	HOT WATER INLINE AIR PURGER: ARMSTRONG IN-LINE AIR SEPARATOR MODEL VAS-4, 350°F MAXIMUM WORKING TEMPERATURE, 150 PSIG MAXIMUM WORKING PRESSURE, 4" INLET & OUTLET CONNECTIONS WITH FLANGES, 1½" NPT AIR OUTLET, 1" NPT DRAIN.	
3.	HOT WATER EXPANSION TANK: SHALL BE ARMSTRONG MODEL A500-L, 24" DIAMETER, 80" HIGH, 132 GALLONS, WITH 1-1/2" NPT SYSTEM CONNECTION, 1-1/2" NPT CHARGING VALVE, 3/4" DRAIN PLUG, 240°F MAX OPERATING TEMPERATURE, 125 PSI MAX WORKING PRESSURE, FACTORY PRE-CHARGED TO 12 PSIG. UNIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ASME SECTION VIII.	
4.	<u>CHEMICAL SHOT FEEDER (HOT WATER SYSTEM)</u> : SHALL BE NEPTUNE VERTICAL 5-GALLON MODEL DBF-5HP. THE FEEDER SHELL SHALL BE CONSTRUCTED OF 10 GAUGE STEEL. TANK HEADS SHALL BE 9 GAUGE STEEL FOR 5 GALLON UNITS. THE BYPASS FEEDER SHALL BE RATED AT 300 PSI AND TO 2000F. TANK SHALL HAVE A WIDE MOUTH, 3-1/2" WITH CAST IRON CAP AND CLOSURE GASKET. TANK & ALL ACCESSORIES SHALL BE EPOXY COATED. PROVIDE OPTIONAL LEGS & 5 MICRON FILTER.	
5.	DDC CONTROLS: PROVIDE SCHNEIDER ELECTRIC STANDALONE UNITARY MP-C SMARTX IP CONTROLLER WITH ADVANCED DISPLAY V3 FOR LOCAL OPERATION AND MAINTENANCE. PROVIDE AS-P DEVICES AS REQUIRED FOR CONTROL LOGIC, TREND LOGGING, ALARM SUPERVISION AND GENERAL COMMUNICATION BETWEEN THE FIELD EQUIPMENT AND STANDALONE CONTROLLER. REFER TO SPECIFICATION SECTION.	
6.	BOILER FEED UNIT (BF-1): SHALL BE STERLCO 4600 SERIES DUPLEX 1HP CONDENSATE PUMPS MODEL #46320-KDF WITH 120 GALLON STEEL TANK AND DUPLEX NEMA 12 CONTROL PANEL. PUMPS SHALL BE CAPABLLE OF 30 GPM @ 30 PSI AND UP TO 300°F. PROVIDE THE FOLLOWING OPTIONS: THERMOMETER, ISOLATION VALVES, SOLENOID OPERATED MAKE-UP WATER VALVE WITH REVERSE ACTING FLOAT SWITCH, NEMA 12 CONTROL PANEL. PROVIDE PUMP FAILURE ALARM AT BMS. ELECTRICAL SHALL BE 208V/1PH/60HZ.	CONTF START APPRO 16. <u>S1</u> MO
7.	CONDENSATE TRANSFER PUMPS (CT-1, CT-2): SHALL BE STERLCO 4100 SERIES SIMPLEX 1/3HP CONDENSATE PUMPS MODEL #4122-G WITH 15 GALLON STEEL TANK. PUMPS SHALL BE CAPABLE OF 3 GPM @ 20 PSI AND UP TO 250°F. PROVIDE STARTER WITH H-O-A SELECTOR. PROVIDE PUMP FAILURE ALARM AT BMS. ELECTRICAL SHALL BE 120V/1PH/60HZ. FURNISH DISCONNECT SWITCH.	HE VE SH ST PF
8.	UNIT HEATER (UH-1,2): SHALL BE MODINE MODEL #HSB-33 CAPABLE OF 33MBH WITH 60F ENTERING AIR TEMP AND 2PSI STEAM. 630 CFM WITH 1/25HP MOTOR. ELECTRICAL SHALL BE 115V/1PH/60HZ. PROVIDE REMOTE WALL MOUNTED THERMOSTAT ON EXTERIOR AS INDICATED ON PLAN. FURNISH DISCONNECT SWITCH FOR EACH UNIT.	17. <u>IN</u>
9.	MOTORIZED DAMPERS: SHALL BE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. DAMPERS SHALL BE 120V/1¢/60Hz, 3 AMPS MAX. FURNISH DISCONNECT SWITCH.	1H BA HC AE
10.	LOUVERS: SHALL BE RUSKIN MODEL ELF375DX, 4" DEEP, WITH 54% FREE AREA, 6063T5 EXTRUDED ALUMINUM DRAINABLE BLADES AT 37.5° AND 5-3/32" SPACING, 4" DEEP 6063T5 EXTRUDED ALUMINUM FRAME. AND 1/2" GALVANIZED STEEL BIRD SCREEN. SUBMIT COLOR CHART FOR REVIEW AND SELECTION.	AL PE CC CC PL
11.	TEMPERATURE ACTUATED WATER REGULATING VALVE: SHALL BE STERLING 56-T SERIES SELF MODULATING THERMOSTATIC COOLING CONTROL VALVE WITH PRECISE CONTROL FROM 40F TO 275F. STURDY, BRASS ALLOY CONSTRUCTION, HEAVY DUTY, DIRECT ACTING BELLOWS, BUNA-N SEAT DISC, REPLACEABLE SEAT BEADS, BRASS TEMPERATURE SENSING BULB, PROTECTED BY HEAVY DUTY ARMOR.	18. <u>CC</u> VE BE FL
12.	BACKFLOW PREVENTER: SIMILAR TO WATTS MODEL LF009 REDUCED PRESSURE ZONE BACKFLOW PREVENTER. SIZE SHALL BE 3/4".	19. <u>PF</u>
13.	LOW PRESSURE STEAM BOILERS (B-1, B-2): SHALL BE WEIL-MCLAIN MODEL 888, HIGH EFFICIENCY, CAST IRON, SECTIONAL STEAM BOILER, RATED AS FOLLOWS: • 2,382 MBH GAS INPUT. • 1,987 MBH GROSS OUTPUT.	OF GA SE M(
	 GAS 83% EFFICIENT FACTORY TESTED SECTIONS. INSULATED STEEL JACKET. BURNER MOUNTING PLATE WITH REFRACTORY. CAST IRON FLUE COLLAR WITH BUILT-IN BREACHING DAMPER. OBSERVATION PORTS ON FRONT AND BACK SECTIONS. CLEANOUT PLATES WITH REUSABLE GASKETS. FLUE BRUSH. HXT BARS. 3" OF INSULATION. 15 PSI ASME SAFETY VALVE SIDE OUTLET. LOW LIMIT AND HIGH LIMIT PRESSURE CONTROLS. STEAM PRESSURE GAUGE SIPHON. GAUGE COCKS, GLASS AND GUARDS. FURNISH THE FOLLOWING FEATURES & OPTIONS: CERAMIC FIBER ROPE SEAL BETWEEN SECTIONS. WATER LEVEL CONTROLS. BURNER CONTROLS. (2) LOW WATER CUT-OFF SWITCHES WITH MANUAL RESET OPERATING CONTROL - (1) FLOAT TYPE & (1) PROBE TYPE. DRAFT CONTROL DAMPERS. SIDE INSPECTION TAPPINGS WITH PLUGS - 2 PER SECTION. DUAL-RANGE MANOMETER. 	20. <u>ST</u> M(25 (F <i>i</i>

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CITY OF YONKERS

DRAFT GAS BURNERS: SHALL BE POWER FLAME MODEL C2-G-20A GAS BURNER, H GAS. PROVIDE THE FOLLOWING FEATURES & OPTIONS: INGLE POINT EXTERNAL POWER CONNECTION AT THE BURNER SHALL BE 208V/10/60HZ, WITH SINGLE POINT FACTORY DISCONNECT SWITCH. 3/4 HP 208V/1¢/60 BLOWER MOTOR. 20V CONTROL TRANSFORMER.

OWER FLAME DIRECTOR SCS GRAPHIC DISPLAY & ANNUNCIATION SYSTEM WITH NDICATING LAMP PACKAGE AND OPTIONAL WATER LEVEL SET POINT, ACTUAL EVEL AND % OUTPUT OF FEED WATER VALVE, STEAM FLOW, GAS FLOW, FEED NATER FLOW, TOTAL DISSOLVED SOLIDS (TDS). 4.8 - 14" WC GAS INLET PRESSURE.

LAME SAFEGUARD WITH UV AND PREPURGE WITH INTERRUPTED PILOT.

GAS SAFETY VALVE.

MAN/AUTO SWITCH - MANUAL POTENTIOMETER - MODULATION ONLY. FULL MODULATION WITH AUTOMATIC AIR CONTROL.

HIGH AND LOW GAS PRESSURE SWITCHES.

PARK IGNITED GAS PILOT WITH PILOT GAS TRAIN & MAIN GAS COCKS. PROVEN COMBUSTION AIR.

IR SAFETY SWITCH & LEAKAGE TEST COCK. DPERATION, PROVEN LOW FIRE START, & AUTOMATIC AIR CONTROLS.

HE BURNER SHALL BE IN COMPLIANCE WITH CSD-1 AND IRT.

SIEMANS 1" VENTLESS GAS TRAIN, DUAL SSO GAS VALVES, PRESSURE EGULATOR AND (2) MANUAL SHUT OFF BALL VALVES.

SIEMENS LMV3 LINKAGE-LESS BURNER MANAGEMENT SYSTEM WITH PARALLEL POSITIONING ACTUATOR, FSG AND AZL DISPLAY. FULL MODULATION. MODBUS MODULE WITH BACNET - CONNECT TO NEW ANDOVER SYSTEM.

FOUR RELAYS: BOILER ON, FA DAMPER, COMMON ALARM, BG STATION.

OR SHALL HIRE THE POWERFLAME AUTHORIZED START UP CONTRACTOR TO ADJUST BURNERS. SUBMIT FULL START UP REPORT TO ENGINEER FOR

TO-WATER HEAT EXCHANGER (HX-1): SHALL BE BASED ON BELL AND GOSSETT SU-125-4 AND SHALL BE OF SHELL AND U-TUBE DESIGN WITH REMOVABLE TUBE STEAM IN SHELL AND WATER IN TUBES. THE UNIT SHALL BE CAPABLE OF 90 GPM OF WATER FROM 120°F TO 180°F WITH 1 PSIG STEAM. WATER TY OF 3 FPS AND PRESSURE DROP OF 2 FEET. THE TOTAL HEATING SURFACE BE 101.6 SQUARE FEET. THE HEAT EXCHANGER SHALL BE CONSTRUCTED AND ED IN ACCORDANCE WITH SECTION VIII, DIVISION 1 OF THE ASME BOILER AND IRE VESSEL CODE. PROVIDE SADDLES FOR SUPPORT. HEAT CAPACITY OF 2,700 .0005 FOULING FACTOR, AND 2,823 LB/HR STEAM LOAD. TUBE CONNECTIONS BE 4" NPT, STEAM CONNECTION SHALL BE 6" FLANGE, CONDENSATE CONNECTION BE 1.5" NPT. MINIMUM 125 PSI PRESSURE RATING.

DRAFT FAN (IDF-1): SHALL BE CHIMNEY MOUNTED ENERVEX MODEL RSV400, V/3PH/60HZ. TOTALLY ENCLOSED TEFC MOTOR, CLASS H INSULATED. SEALED EARINGS. VARIABLE SPEED. THERMAL OVERLOAD PROTECTION. THE FAN G IS 3/16" CAST ALUMINUM. ONE COAT OF GREY HAMMERPAINT IS APPLIED FOR CORROSION RESISTANCE. THE BACKWARDS CURVED IMPELLER IS CAST UM. THE IMPELLER IS DYNAMICALLY AND STATICALLY BALANCED WITH NENTLY ATTACHED BALANCING WEIGHTS. WALL MOUNTED VFD AND SPEED DLLER SHALL BE PROVIDED BY MANUFACTURER AND INTERLOCK TO PRESSURE DL PANEL. PROVIDE NEMA 3 WEATHERPROOF LOCAL DISCONNECT. SEE FLOOR OR LOCATION. DETAIL ON M7.5 FOR SEQUENCE OF OPERATION AND MORE ATION.

STION AIR FANS (CAF-1, CAF-2): SHALL BE ENERVEX MODEL #BEF315x BOX TOR CAPABLE OF 850 CFM @ 0.1 W.C. SP WITH 1HP MOTOR. ELECTRICAL SHALL V/3PH/60HZ. PROVIDE ALL CONTROLS REQUIRED FOR INTEGRATION INTO BMS. DISCONNECT SWITCH FOR EACH FAN. SEE FLOOR PLAN FOR LOCATION, ON M7.5 FOR SEQUENCE OF OPERATION AND MORE INFORMATION.

RE CONTROL PANEL (PCP): SHALL BE US DRAFT V250-VP WALL MOUNTED 1/60HZ, 0.4 AMPS, WITH ALL ACCESSORIES CAPABLE TO PROVIDE FULL CONTROL CAF-1, CAF-2 & IDF-1 ACCORDING TO THE CONTROL DIAGRAM ON M7.5. PROVIDE AY PROTOCOL CONVERTER FROM MODBUS TO THE NEW ANDOVER BMS SYSTEM. OOR PLAN FOR LOCATION, DETAIL ON M7.5 FOR SEQUENCE OF OPERATION AND FORMATION.

CONTROL VALVE: SHALL BE 4"Ø FLANGED GLOBE VALVE SIMILAR TO BELIMO C6, 2-WAY MODULATING, CAST IRON BODY WITH STAINLESS STEEL TRIM, ANSI STEAM RATING. ACTUATOR SHALL BE SPRING RETURN, NORMALLY CLOSED LOSED) MODULATING 2-10V MODEL AF-SR.

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PROJECT TITLE

HUDSON RIVER MUSEUM **BOILER REPLACEMENT** HUDSON RIVER MUSEUM 511 WARBURTON AVENUE YONKERS, NY 10701

DRAWING TITLE

MECHANICAL SCHEDULES & EQUIPMENT NOTES -ALTERNATE

SCALE

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DRAWN BY

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01-17-2022

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3/8"

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR	
1600-2400 KG/M3) CONCRETE. FLOOR ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. (152 MM) THICK UL CLASSIFIEI)
HOLLOW-CORE PRECAST CONCRETE UNITS*. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. DIAM OF	
OPENING TO BE NOM 2 IN. (51 MM) LARGER THAN OUTSIDE DIAM OF PIPE COVERING MATERIAL (ITEM 3). MAX DIAM OF OPENING 12 IN.	
(305 MM). MAX DIAM OF OPENING IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE IS 7 IN. (178 MM).	

SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN OPENING. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBES MAY BE USED:

A. STEEL PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

C. COPPER TUBING - NOM 4 IN. (102 MM) DIAM (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBE.

D. COPPER PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. PIPE COVERING - NOM 3 IN. (76 MM) THICK (OR LESS) HOLLOW CYLINDRICAL HEAVY DENSITY GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH PRODUCT. ANNULAR SPACE BETWEEN THE PIPE COVERING AND PERIPHERY OF OPENING OR SLEEVE SHALL BE MIN 3/8 IN. (10 MM) TO MAX 1-1/2 IN. (38 MM). WHEN PIPE COVERING MATERIAL THICKNESS IS LESS THAN 3 IN. (76 MM), T RATING IS 0 HR.

SEE PIPE AND EQUIPMENT COVERING - MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS, ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.

4. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

A. PACKING MATERIAL - (OPTIONAL, NOT SHOWN) - POLYETHYLENE BACKER ROD OR NOM 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE, PACKING MATERIAL TO BE RECESSED FROM TOP AND BOTTOM SURFACES OF FLOOR OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

A1. FORMING MATERIAL* - AS AN ALTERNATE TO THE PACKING MATERIAL IN ITEM 5A, NOM 4 IN. (102 MM) WIDE STRIPS OF MIN 1/2 IN (13 MM) THICK COMPRESSIBLE MAT FOLDED IN HALF LENGTHWISE AND STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSIONFITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACE TO A MIN 2 IN. (51 MM) DEPTH. TOP OF FORMING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS NECESSARY TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL. IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE. FORMING MATERIAL TO BE RECESSED FROM TOP AND BOTTOM SURFACES OF FLOOR OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

3M COMPANY - FIRE BARRIER PACKING MATERIAL

B. FILL, VOID OR CAVITY MATERIALS* - SEALANT - MIN 2 IN. (51 MM) THICKNESS OF SEALANT APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE, MIN 2 IN. (51 MM) THICKNESS OF SEALANT APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP AND BOTTOM SURFACES OF FLOOR OR SLEEVE.

3M COMPANY - FB-3000 WT

*BEARING THE UL CLASSIFICATION MARK

8 INSULATED PIPE FIRE STOPPING DETAIL SCALE: NONE
 <u>NOTES</u>: FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 26 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
 STEEL SLEEVE (OPTIONAL) - NOM 14 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING OR SLEEVE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 A. STEEL PIPE - NOM 24 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. B. IRON PIPE - NOM 24 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 24 IN DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE. C. CONDUIT - NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING. D. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. E. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
 4. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS: A. PACKING MATERIAL - MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR
 FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. B. FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO THE PENETRANT/CONCRETE OR PENETRANT/SLEEVE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT. (THE W RATING APPLIES ONLY WHEN FB-3000 WT IS USED.)
*BEARING THE UL CLASSIFICATION MARKING

SCALE: NONE

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OUTDOOR AIR

NOTES:

1.) US DRAFT COMPANY SHALL PROVIDE ALL EQUIPMENT, PARTS, AND ACCESSORIES LISTED IN THE CONTROL DIAGRAM ABOVE TO INSTALL AND OPERATE A COMPLETE SYSTEM. CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING, INSTALLATION AND COMMISSIONING.

FAN CONTROL SEQUENCE:

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- 1. EACH HEATING APPLIANCE SHALL BE INTERLOCKED WITH THE PRESSURE CONTROL PANEL. UPON A CALL FOR HEAT, THE CONTROL PANEL SHALL ACTIVATE THE INDUCED DRAFT FAN (IDF-1) TO ESTABLISH DRAFT IN THE CHIMNEY SYSTEM. THE COMBUSTION AIR FANS SHALL START TO ESTABLISH THE REQUIRED PRESSURE IN THE BOILER ROOM. ALL EXTERNAL MECHANICAL LIMITS ARE MONITORED FOR STATUS. ONCE ALL THESE CONDITIONS ARE MET THE CONTROL SYSTEM WILL RELEASE THE FLAME PROGRAMMER OR GAS VALVE OF THE APPLIANCE CALLING FOR HEAT. THE SEQUENCE IS REPEATED EVERY TIME AN INITIAL APPLIANCE CALLS FOR HEAT. EACH ADDITIONAL CALL FOR HEAT THE CONTROL WILL NOT DELAY THE SEQUENCING OF THE ADDITIONAL HEATING APPLIANCES.
- 2. WHEN APPLIANCES SHUT DOWN BOTH THE IDF-1 AND THE CAF FANS (CAF-1 AND CAF-2) WILL WILL CONTINUE TO RUN IN POST-PURGE MODE FOR A SET PERIOD OF TIME TO REMOVE RESIDUAL FLUE GASES.
- 3. ONCE THE POST-PURGE CYCLE IS COMPLETED THE SYSTEM SECURES AND THE CONTROL PANEL ENTERS STAND-BY MODE.
- 4. IF PROPER DRAFT CANNOT BE MAINTAINED OR AN EXTERNAL MECHANICAL LIMIT OPENS BECAUSE OF MECHANICAL OR ELECTRICAL FAILURE, THE CONTROL WILL GO IN ALARM MODE AND THE INTEGRATED PROVEN DRAFT FUNCTION WILL SHUT DOWN ALL THE APPLIANCES WITHIN 15 SECONDS. WHILE IN ALARM MODE, THE CONTROL CONSTANTLY MONITORS THE DRAFT AND LIMIT INPUTS. IF THE FAILURE CORRECTS ITSELF OR IS CORRECTED VIA INTERVENTION, THE SYSTEM WILL RESTART AUTOMATICALLY. IF THE FAILURE IS NOT CORRECTED BEFORE THE ADJUSTABLE SYSTEM RELEASE FAULT TIMER EXPIRES, THE CONTROL WILL DISABLE AND LOCKOUT THE SYSTEM FOR FREEZE PROTECTION.
- 5. WHEN THE FAN TEST IS ENABLED, THE PRESSURE CONTROL PANEL WILL RUN A SELF DIAGNOSTIC ON THE STATUS OF THE VENT SYSTEM EACH HEATING CYCLE TO VERIFY THAT THE SYSTEM IS FUNCTIONING PROPERLY. IF THE FAN TEST FAILS, THE PRESSURE CONTROL PANEL WILL ALARM, LOCKOUT THE SYSTEM AND ANNUNCIATE THE TEST FAILURE.

BOILER DRAFT CONTROL SCHEMATIC SCALE: NONE

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CTURAL MEMBERS. ERS SECURELY WITH PROVI	SIONS FOR EASY F	REMOVAL AND				
IAT THEY HANG LEVEL IN TH ISION IN SUPPLY PIPING SW	E VERTICAL AND H	ORIZONTAL.				
VT. JACENT TO UNIT HEATER IN	BOTH THE SUPPLY	AND				
PROVIDE SHUT-OFF VALVE IN LE RUN OFFS FROM ALL SUF	N ALL SUPPLY LATE PPLY AND RETURN	RALS. MAINS.				
ERMOSTAT ARRANGED TO C CALL FOR HEAT.	OPEN CONTROL VA	LVE AND				
		FIELD POWER WIRING BY ELECTRICAL CONTRACTOR				
		CONTROL WIRING BY		 T		
1						
		VENT OR DUCT		<u> </u>		
ENT/CHIMNEY	ALM					
	M/E	MASTER ENABLE: INPUT OF CONTROLLER				
	Р РТ	STACK PRESSURE PROBE		<u> </u>		
		TO 1 IN WC				
TRIC AT EACH	PVR	SUPPLY FAN PROVING DEVICE OUTPUT: CURRENT SWITCH OR				
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PERFORM A FULL STARTUP	אס נטטטטט-1077) SI OF THE NEW DRAF TARTLIP REPOPT E	TALL BE CONTRACTED TO T CONTROL SYSTEM AND OR THE ENGINEER / OWNED	. I		NICAL DET	AILS -
PROVIDE DRAFT CONTROL (SENSORS AND ALL RELATE	COMPONENTS INCL CONTROLS. MAIN	UDING ROOM PRESSURE		AL	TERNATE	
BOILER MANUFACTURER RE	COMMENDATION.					
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SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING		A	AMPERE(S)
	-	CONDUIT & WIRING TO BE REMOVED UON		AFF	ABOVE FINISHED FLOOR
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P		AF	AMPERAGE OF FUSE
<	-	MULTI-POLE HOMERUN		AGL	ABOVE GRADE LEVEL
	-	ELECTRICAL EQUIPMENT AS INDICATED		AHU	AIR HANDLING UNIT
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON		AS	AMPERAGE OF SWITCH
M	-	ELECTRIC METER		AWG	AMERICAN WIRE GAUGE
J	-	JUNCTION BOX		BCW	BARE COPPER WIRE
	-	FUSED DISCONNECT SWITCH		BLDG	BUILDING
	-	UNFUSED DISCONNECT SWITCH		BMS	BUILDING MANAGEMENT SYS
	-	COMBINATION MOTOR STARTER/FUSED DISC.		С	CONDUIT
	-	MOTOR STARTER		CD	CANDELA
\bigwedge	-	MOTOR		СКТ	CIRCUIT
4_4	-	BATTERY PACK EMERGENCY LIGHT FIXTURE		CLG	CEILING
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW		COL	COLUMN
S _x	-	SINGLE POLE SWITCH		CU	COPPER
X		(x - INDICATES FIXTURE BEING CONTROLLED)		DEM.	DEMOLISH AND REMOVE
S ³	-	THREE WAY SWITCH		DISC	DISCONNECT
U _x		(x - INDICATES FIXTURE BEING CONTROLLED)		DWG	DRAWING
S.,	-	MOTOR RATED TOGGLE SWITCH		FMT	
				EM	
	_			EX	
	_			E E	
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<u>)</u>	_			KVA	KILO-VOLT-AMPERE
	-			KW	KILO-WATI
	GND	GROUND AS PER LOCAL CODE		MAX	MAXIMUM
TT	-	GROUND BAR		MCB	MAIN CIRCUIT BREAKER
	-	GROUND ROD		MCC	MOTOR CONTROL CENTER
ORT	XFMR	TRANSFORMER		MIN	MINIMUM
5	СТ	CURRENT TRANSFORMER		MLO	MAIN LUG ONLY
WM	WM	WATER MAIN		NIC	NOT IN CONTRACT
В	-	BOILER BREAK GLASS STATION		NTS	NOT TO SCALE
- //	NC	NORMALLY CLOSED CONTACTS		РВО	PROVIDED BY OTHERS
	NO	NORMALLY OPEN CONTACTS		PNL	PANEL
M	MD	MOTORIZED DAMPER		PVC	POLY VINYL CHLORIDE
	SD OR CFSD	SMOKE DAMPER		REL.	REMOVE AND RELOCATE
	UH	UNIT HEATER		RGS	RIGID GALVANIZED STEEL
				SCH	SCHEDULE
				SPD	SURGE PROTECTION DEVICE
				SW	SWITCH(ES)
				TELCO	TELEPHONE COMPANY
				TYP	TYPICAL
				UG	UNDERGROUND
				UON	UNLESS OTHERWISE NOTED
				UV	UNIT VENTILATOR
				VIF	VERIFY IN FIELD
				V	VOLT(S)
				VSD	VARIABLE SPEED DRIVE
				WG	WIRE GUARD
1				۱۸/Ц	
				VVII	
				WP	WEATHERPROOF
				WP	WEATHERPROOF

1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION. 4. ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY. 5. ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS". ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT **BUILDING MANAGEMENT SYSTEM** MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD. CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING. & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED. WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT. 10. INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS ELECTRICAL METALLIC TUBING BUILDING OR STRUCTURE EXPANSION JOINTS. 11. UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, RETURN FANS, COMPRESSORS, FAN COIL UNITS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR. 12. DISCONNECT SWITCHES FOR MOTORIZED DAMPERS SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES GROUND FAULT INTERRUPTER NOT SHOWN ON PLANS. 13. ALL CO ALARMS TO BE 120V, MULTI STATION HEADS WITH NON-REMOVABLE. NON-REPLACEABLE, 10 YEAR MINIMUM BATTERY BACKUP, U.O.N. PROVIDE WIRING AS INTERMEDIATE METAL CONDUIT REQUIRED BETWEEN HEADS. 14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK. DEMOLITION NOTES ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.). 2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS. CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID. CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD 3 VERIFIED PRIOR TO BID. 4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON. 5. ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.

6. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

_____ 2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)

- → 3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)
- _____ 2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)

- LIGHT FIXTURE TYPE SWITCH CONTROL

LIGHT FIXTURE - CIRCUIT #

- EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
- CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER

NOT BE APPLICABLE FOR THIS PROJECT. IGHT FIXTURE SYMBOLS.

GENERAL NOTES

DEFINITION OF TERMS

2.

SITE.

CIRCUIT # - RECEPTACLE NOTES:

- SWITCH(ES) **TELEPHONE COMPANY**
- TYPICAL

- UNLESS OTHERWISE NOTED
- UNIT VENTILATOR
- VERIFY IN FIELD
- VOLT(S)
- VARIABLE SPEED DRIVE
- WIRE GUARD
- WATER HEATER
- WEATHERPROOF

WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "CITY OF YONKERS" IS INTENDED.

WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.

WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CONSOLIDATED EDISON" IS INTENDED.

WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "ADT" IS INTENDED.

"WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS. TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.

6. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB

"INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.

"PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT. ETC. AS DEFINED ABOVE.

9. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.

"MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.

C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.

"REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

TRENCHING NOTES

CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.

ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT. PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.

ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.

ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962 (NY STATE).

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OLA Consulting Engineers

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8 West 38th Street, Suite 501 New York, NY 10018 646.849.4110

olace.com

CITY OF YONKERS

CITY HALL, 40 SOUTH BROADWAY YONKERS, NY 10701 914.377.6106

THE HUDSON RIVER MUSEUM

511 WARBURTON AVENUE YONKERS, NY 10701 914.963.4550

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PROJECT TITLE

HUDSON RIVER MUSEUM **BOILER REPLACEMENT** HUDSON RIVER MUSEUM **511 WARBURTON AVENUE** YONKERS, NY 10701

DRAWING TITLE

ELECTRICAL SYMBOLS. **ABBREVIATIONS & NOTES -BASE & ALTERNATE**

SCALE

AS SHOWN

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+ EX. FIRE ALARM SAFETY CUTOFF

			DRAW
		ROOF ATTIC THIRD	B
	ROOF	SECOND	
	UPPER LEVEL	FIRST	SEAL
	MIDDLE LEVEL	BASEMENT	
MUSEUM	LOWER LEVEL		
	MUSEUM	GLENVIEW	
NORTH KEYPLAN SCALE: NONE	VERTICAL I scale: n	KEYPLAN Ione	

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	ROOF UPPER LEVEL MIDDLE LEVEL	ROOF ATTIC THIRD SECOND FIRST BASEMENT
MUSEUM	LOWER LEVEL MUSEUM	GLENVIEW
NORTH KEYPLAN SCALE: NONE	VERTICAL I SCALE: N	KEYPLAN IONE

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WORK DEMOLITION PLAN	1 BID ISSUE 09/16/22 No. ISSUE OR REVISION DATE No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of O'Dea, Lynch, Abbattista Consulting Engineers, PC. Copyright © 2022 DATE PROJECT TITLE HUDSON RIVER MUSEUM BOILER REPLACEMENT HUDSON RIVER MUSEUM 511 WARBURTON AVENUE YONKERS, NY 10701
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DOF TTIC 1IRD COND RST	DRAWING TITLE ELECTRICAL GLENVIEW ATTIC & ROOF NEW WORK PLAN - ALTERNATE SEAL SCALE AS SHOWN PROJECT NO. NCOY0006.00
<u>NVIEW</u> PLAN	DRAWN BY CT CHECKED BY DS DATE

GLENVIEW		ROOF
		ATTIC
		THIRD
	ROOF	SECOND
	UPPER LEVEL	FIRST
	MIDDLE LEVEL	BASEMENT
MUSEUM	LOWER LEVEL	
	MUSEUM	GLENVIEW
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- BOILER BREAKGLASS STATION.

	LIGHTING FIXTURE SCHEDULE						
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS	
A	MERCURY LIGHTING	LW14-4-3800-30K -HTA-1%-UNI-EM7	(1) 29W LED	120V	PENDANT	ARCHITECTURAL LINEAR AMBIENT LED LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.	
В	LITHONIA LIGHTING	WDGE2LED-P2-30K -80CRI-TM2-MVOLT-SRM -E20WC-PE-PIR-DDBXD	(1) 19W LED	120V	SURFACE	ARCHITECTURAL EXTERIOR WALL SCONCE WITH BI-LEVEL (100/35%) MOTION SENSOR AND PHOTOCELL. PROVIDE COLD WEATHER EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.	
\boxtimes	SURE-LITES	APX7R	LED	120V	SURFACE	EXIT SIGN WITH 90 MINUTES OF BATTERY BACKUP TIME, MIN., RED LETTERING ON WHITE BACKGROUND, WHITE THERMO PLASTIC HOUSING, SEALED LEAD CADMIUM BATTERY. PROVIDE CHEVRONS AS INDICATED ON DRAWINGS.	

1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES. 2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION

3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.

4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS. 5.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

	MAIN RATING: <u>225A</u>	MA	IN C.B.:	<u>200A</u>		KAIC RATING: <u>22KAIC</u>	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1							2
3	B-1	50	3	3	50	B-2	4
5							6
		40	2	2	40		0
9 11		40	5	5	40		10
13							1/
15	BP-1	20	3	3	20	BP-2	16
17		20	Ŭ		20		18
19	MOTORIZED DAMPERS	20	1	1	20	RECP GELBOILER ROOM	20
21		20	1	1	15	BOILER BREAKGLASS STATION	22
23	LTS EXTERIOR BOILER ROOM	20	1	1	15	UH-1 BOILER ROOM	24
25	FA BOOSTER POWER SUPPLY	20LK	1	1	15	120V CO ALARM BOILER ROOM	26
27	BOILER CONTROL PANEL	20	1	1	15	CONDENSATE PUMP	28
29	-	-	-	-	-	-	30
31	-	-	-	-	-	-	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42
LK - P AF - A	ROVIDE LOCKING TABS ON C.B.; GI RC FAULT TYPE C.B.; ST - SHUNT T	F - GFI TY RIP C.B.	(PE C.B.;	GP - GF	P TYPE	Е С.В.;	

WIRING/CONDUIT LEGEND:

- (1) EX. FEEDER.
- 2 EX. GROUND.
- 3 4-#3/0 & 1-#6 GND IN 2"C.
- 4-#4 & 1-#10 GND IN 1-1/4"C.
- (5) 4-#10 & 1-#10 GND IN 3/4"C.

NOTES:

- 1. ALL CIRCUIT BREAKERS AND SWITCHES ARE 3 POLE, U.O.N.
- 2. EXISTING BRANCH CIRCUIT BREAKERS NOT SHOWN.
- 3. MDP IS MANUFACTURED BY METROPOLITAN PANELBOARD WITH WESTINGHOUSE ELECTRIC CORPORATION CIRCUIT BREAKERS.

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THE HUDSON RIVER MUSEUM

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PROJECT TITLE

HUDSON RIVER MUSEUM **BOILER REPLACEMENT** HUDSON RIVER MUSEUM 511 WARBURTON AVENUE YONKERS, NY 10701

DRAWING TITLE

ELECTRICAL ONE-LINE AND SCHEDULES - BASE

SCALE

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2. CONTACTOR SHALL BE INSTALLED IN A NEMA-1 ENCLOSURE EQUIPPED WITH A LOCKABLE HINGED COVER.

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- 3. BOILER BREAKGLASS STATIONS SHALL BE AS MANUFACTURED BY SQUARE-D, TYPE 9001KYK117 OR APPROVED EQUAL.
- 4. INTERCEPT SOURCE OF POWER TO EACH MOTOR CONTROL CIRCUIT AND ROUTE CIRCUIT THRU CONTACTOR. ALL WIRING TO BE 2-#12 UON. COORDINATE WITH MECHANICAL CONTRACTOR.

EX. PARLOR SOUNDS PANEL SCHEDULE

	MAIN RATING: <u>125A</u>	MA	IN C.B.:	MLO			
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	EX. LOAD	20	1	1	20	EX. LOAD	2
3	EX. LOAD	20	1	1	20	EX. LOAD	4
5	EX. LOAD	20	1	1	20	EX. LOAD	6
7	EX. LOAD	20	1	1	20	EX. LOAD	8
9	EX. LOAD	20	1	1	20	EX. LOAD	10
11	EX. LOAD	20	1	1	20	EX. LOAD	12
13	EX. LOAD	20	1	1	20	EX. LOAD	14
15	EX. LOAD	20	1	1	20	EX. LOAD	16
17	EX. LOAD	20	1	1	20	EX. LOAD	18
19	EX. LOAD	20	1	2	50		20
21	EX. LOAD	20	1		50		22
23	EX. LOAD	20	1	1	20	EX. LOAD	24
25	EX. LOAD	20	1	1	20	EX. LOAD	26
27	EX. LOAD	20	1	1	20	EX. LOAD	28
29	EX. LOAD	20	1	1	20	EX. LOAD	30
31	EX. LOAD	20	1	1	20	EX. LOAD	32
33	EX. LOAD	20	1	1	20	EX. LOAD	34
35	CT-1	20*	1	1	20	EX. LOAD	36
37	CT-2	20*	1	-	-	BLANK	38
39	BLANK	-	-	-	-	BLANK	40
41	BLANK	-	-	-	-	BLANK	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.

NOTES:

1. * - PROVIDE A 1P-20A CB IN LOCATION INDICATED.

	MAIN RATING. $400A$	IVIA	IN C.B.				
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC NO.
1	EX. LOAD	20	1	1	20	EX. LOAD	2
3	EX. LOAD	20	1	1	20	EX. LOAD	4
5				1	20	EX. LOAD	6
7	EX. LOAD	60	2	1	20	EX. LOAD	8
9	BLANK	-	-	1	20	EX. LOAD	10
11	BLANK	-	-	-	-	BLANK	12
13 15 17	EX. LOAD	15	3	3	60*	PANELBOARD PPGB1	14 16 18
19 21 23	EX. LOAD	15	3	3	30	EX. LOAD	20 22 24
25 27 29	EX. LOAD	30	3	3	30	EX. LOAD	26 28 30
31 33 35	EX. LOAD	15	3	50	3	EX. LOAD	32 34 36
37	BLANK	-	-				38
39				2	30	EX. LOAD	40
41	EX. LOAD	60	2	-	-	BLANK	42
LK - P	ROVIDE LOCKING TABS ON C.B.; GF	- GFI TY	'PE C.B.;	GP - GF	P TYPE	E C.B.	

1. * - REPLACE EXISTING 3P-15A CB IN POSITIONS 14,16,18 AND PROVIDE A 3P-60A CB IN LOCATION INDICATED.

	PPMB	8-2 F	PANE	ELSC	CHE	DULE	
	MAIN RATING: <u>125A</u>	MA	IN C.B.:	MLO		KAIC RATING: <u>22KAIC</u>	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
:C.).	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
	EUH-1	15	3	3	15	EUH-2	2 4 6
	RECP CORR	20	1	-	-	-	8
	-	-	-	-	-	-	10
1	SPARE	20	1	1	20	SPARE	12
- P	ROVIDE LOCKING TABS ON C.B.; GF -	GFI TY	PE C.B.				

	MAIN RATING: <u>125A</u>	MA	IN C.B.:	MLO		KAIC RATING: <u>22KAIC</u>	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC NO.
1	D 2	15	2	1	15	120V CO ALARM BOILER ROOM	2
3	B-3	15	2	1	15	MOTORIZED DAMPER	4
5	RE 1	30	2	1	20	LTS	6
7	1 - 1	50	2	1	15	BOILER BREAKGLASS STATION	8
9	B-4	15	2	-	-	-	10
11	U- -	10	2	1	20	RECP GFI	12
13				1	20LK	FA BOOSTER POWER SUPPLY	14
15	CAF-1	20	3	-	-	-	16
17				1	20	BOILER ROOM CONTROL PANEL	18
19	-	-	-	-	-	-	20
21	-	-	-	-	-	-	22
23	-	-	-	-	-	-	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30
LK - P Note	ROVIDE LOCKING TABS ON C.B.; GF	- GFI TY	′PE C.B.;	GP - GF	P TYPE	E C.B.	

EX. PPMB1 LEFT PANEL SCHEDULE

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GLENVIEW BOILER EMERGENCY SHUTDOWN WIRING DIAGRAM 2 SCALE: NONE

NOTES:

- 1. ALL EQUIPMENT AND WIRING ASSOCIATED WITH THIS DIAGRAM SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UON.
- 2. CONTACTOR SHALL BE INSTALLED IN A NEMA-1 ENCLOSURE
- EQUIPPED WITH A LOCKABLE HINGED COVER. 3. BOILER BREAKGLASS STATIONS SHALL BE AS MANUFACTURED BY SQUARE-D, TYPE 9001KYK117 OR APPROVED EQUAL.
- 4. INTERCEPT SOURCE OF POWER TO EACH MOTOR CONTROL CIRCUIT AND ROUTE CIRCUIT THRU CONTACTOR. ALL WIRING TO BE

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6 POLE ELECTRICALLY HELD CONTACTOR WITH NO CONTACTS. SQUARE-D LG SERIES OR APPROVED EQUAL.

2-#12 UON. COORDINATE WITH MECHANICAL CONTRACTOR.

		I		-IXTUF	RE
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	МС
A	MERCURY LIGHTING	LW14-4-3800-30K -HTA-1%-UNI-EM7	(1) 29W LED	120V	PE

NOTES:

1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES. 2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.

3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.

4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS. 5.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

CHED	ULE	
JNTING	REMARKS	
NDANT	ARCHITECTURAL LINEAR AMBIENT LED LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.	

WIRING/CONDUIT LEGEND:

1 EX. FEEDER.

- (2) EX. GROUND.
- 3 4-#2 & 1-#8 GND IN 1-1/4"C.
- 4-#10 & 1-#10 GND IN 3/4"C.

NOTES:

- 1. ALL CIRCUIT BREAKERS AND SWITCHES ARE 3 POLE, U.O.N.
- 2. EXISTING BRANCH CIRCUIT BREAKERS NOT SHOWN
- 3. MDP IS MANUFACTURED BY METROPOLITAN PANELBOARD WITH WESTINGHOUSE ELECTRIC CORPORATION CIRCUIT BREAKERS.

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	511 W	ARBURTON AVENUE	
	YO	NKERS, NY 10701 914.963.4550	
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EX. PARLOR SOUNDS PANEL SCHEDULE

	MAIN RATING: <u>125A</u>	MA	IN C.B.:	MLO			
VOLTAGE: <u>208Y/120V</u>			ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	
C.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
	EX. LOAD	20	1	1	20	EX. LOAD	2
	EX. LOAD	20	1	1	20	EX. LOAD	4
	EX. LOAD	20	1	1	20	EX. LOAD	6
	EX. LOAD	20	1	1	20	EX. LOAD	8
	EX. LOAD	20	1	1	20	EX. LOAD	10
	EX. LOAD	20	1	1	20	EX. LOAD	12
	EX. LOAD	20	1	1	20	EX. LOAD	14
	EX. LOAD	20	1	1	20	EX. LOAD	16
	EX. LOAD	20	1	1	20	EX. LOAD	18
	EX. LOAD	20	1	2	50	EXIOAD	20
	EX. LOAD	20	1	2	50	EA. LOAD	22
	EX. LOAD	20	1	1	20	EX. LOAD	24
	EX. LOAD	20	1	1	20	EX. LOAD	26
	EX. LOAD	20	1	1	20	EX. LOAD	28
	EX. LOAD	20	1	1	20	EX. LOAD	30
	EX. LOAD	20	1	1	20	EX. LOAD	32
	EX. LOAD	20	1	1	20	EX. LOAD	34
	CT-1	20*	1	1	20	EX. LOAD	36
	CT-2	20*	1	-	-	BLANK	38
	BLANK	-	-	-	-	BLANK	40
	BLANK	-	-	-	-	BLANK	42

	MAIN RATING: <u>125A</u>	MA	IN C.B.:	<u>100A</u>		KAIC RATING: <u>22KAIC</u>	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>	1
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC NO.
1	D 4		2	1	15	120V CO ALARM BOILER ROOM	2
3		20	2	1	15	MOTORIZED DAMPERS	4
5	BF-1	30	2	1	20	LTS	6
7		50	2	1	15	BOILER BREAKGLASS STATION	8
9	B-2	20	2	1	15	CONTROL VALVES	10
11	- D-2	20	2	1	20	RECP GFI	12
13	CAF-1		3	1	20LK	FA BOOSTER POWER SUPPLY	14
15				1	20	PCP PANEL	16
17				1	20	BOILER ROOM CONTROL PANEL	18
19	HWP-1		3				20
21				3	15	CAF-2	22
23							24
25	IDF-1 ON CHIMNEY		3	3	45	HWP-2	
27							
29							30
31	UH-1	15	1	1	15	UH-2	32
33	-	-	-	-	-	-	34
35	-	-	-	-	-	-	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
	SDADE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.

NOTES:

1. * - PROVIDE A 1P-20A CB IN LOCATION INDICATED.

PPMB-2 PANEL SCHEDULE								
MAIN RATING: <u>125A</u>			MAIN C.B.: MLO			KAIC RATING: <u>22KAIC</u>		
VOLTAGE: <u>208Y/120V</u>		PHASE: <u>3</u>		WIRE: <u>4</u>		MOUNTING: <u>SURFACE</u>		
C.).	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.	
		4 -	_		4.5		2	
	EUH-1	15	3	3	15	EUH-2	4	
	RECP CORR	20	1	-	-	-	8	
	-	-	-	-	-	-	10	
	SPARE	20	1	1	20	SPARE	12	
- PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.								
DTE	ES:							

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NOTES:

1. SEE DRAWING E3.4 FOR 120V CARBON MONOXIDE ALARM IN BOILER ROOM.

FIRE ALARM SYMBOLS					
SYMBOL	ABBREVIATION	DESCRIPTION			
F	-	FIRE ALARM MANUAL PULL STATION			
EK¢	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE)			
S	-	SMOKE DETECTOR			
S	-	DUCT MOUNTED SMOKE DETECTOR			
H	-	HEAT DETECTOR			
	-	CARBON MONOXIDE DETECTOR			
ANN	-	FIRE ALARM ANNUNCIATOR PANEL			
СМ	СМ	FIRE ALARM CONTROL MODULE			
MM	MM	FIRE ALARM MONITORING MODULE			
FACP	FACP	FIRE ALARM CONTROL PANEL			
BPS	BPS	BOOSTER POWER SUPPLY			
R	-	FIRE ALARM RELAY			
	EOL	END OF LINE RESISTOR			
	SD OR CFSD	SMOKE DAMPER			

Hawthorne, NY 10532 914.747.2800 8 West 38th Street, Suite 501 New York, NY 10018 646.849.4110 CONSULTING olace.com CLIENT CITY OF YONKERS CITY HALL, 40 SOUTH BROADWAY YONKERS, NY 10701 914.377.6106 THE HUDSON RIVER MUSEUM **511 WARBURTON AVENUE** YONKERS, NY 10701 914.963.4550 BID ISSUE 09/16/22 ISSUE OR REVISION DATE No. No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of O'Dea, Lynch, Abbattista Consulting Engineers, PC. Copyright © 2022 PROJECT TITLE HUDSON RIVER MUSEUM **BOILER REPLACEMENT** HUDSON RIVER MUSEUM 511 WARBURTON AVENUE YONKERS, NY 10701

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FIRE ALARM RISER DIAGRAM AND PART PLANS -ALTERNATE

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