



# BOILER REPLACEMENT & RELATED WORK AT HOLLYWOOD ELEMENTARY SCHOOL

1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162



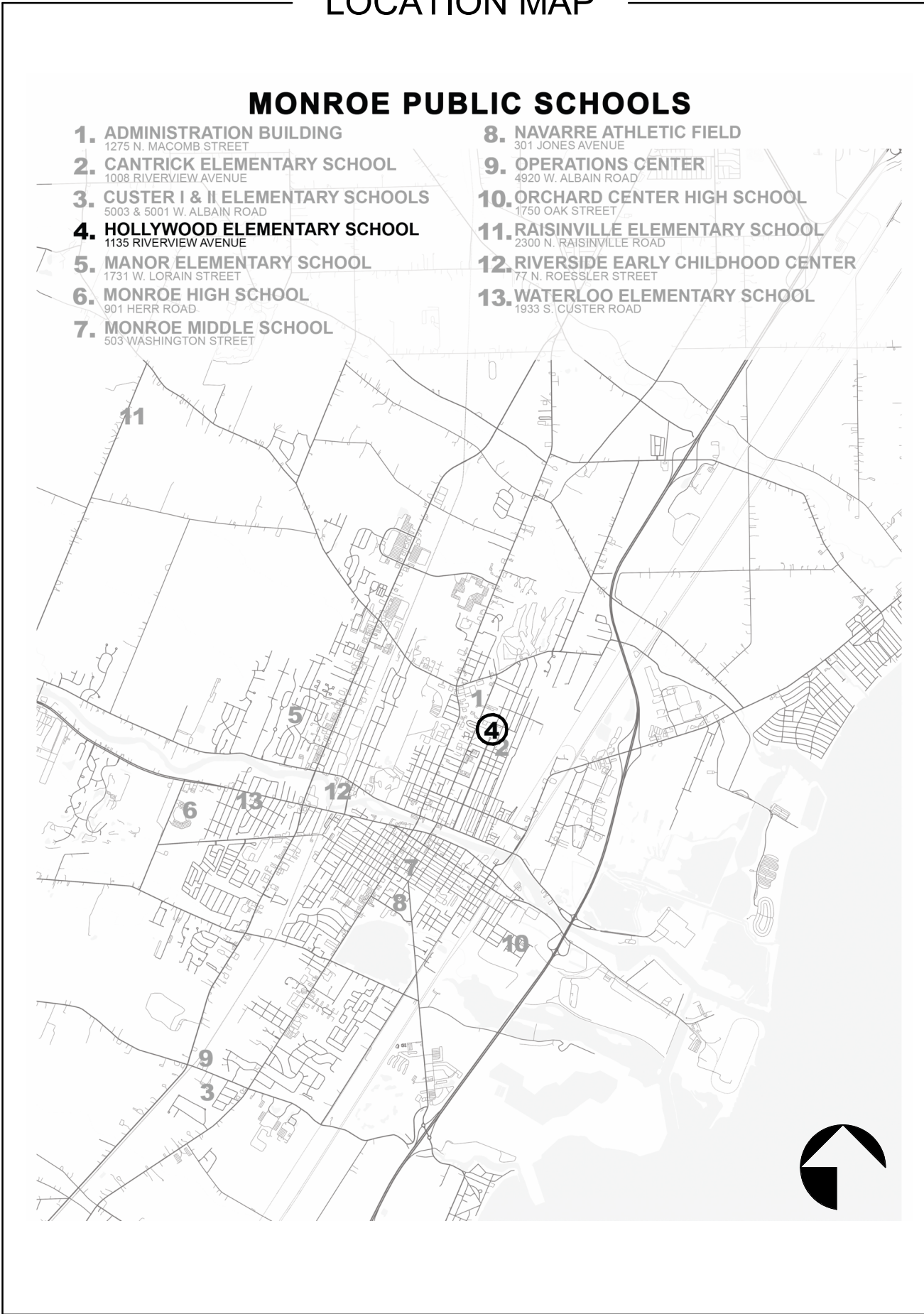
**KOHLER**  
ARCHITECTURE  
1110 WEST FRONT STREET  
MONROE, MICHIGAN 48161  
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**MAKE**  
Things Better+

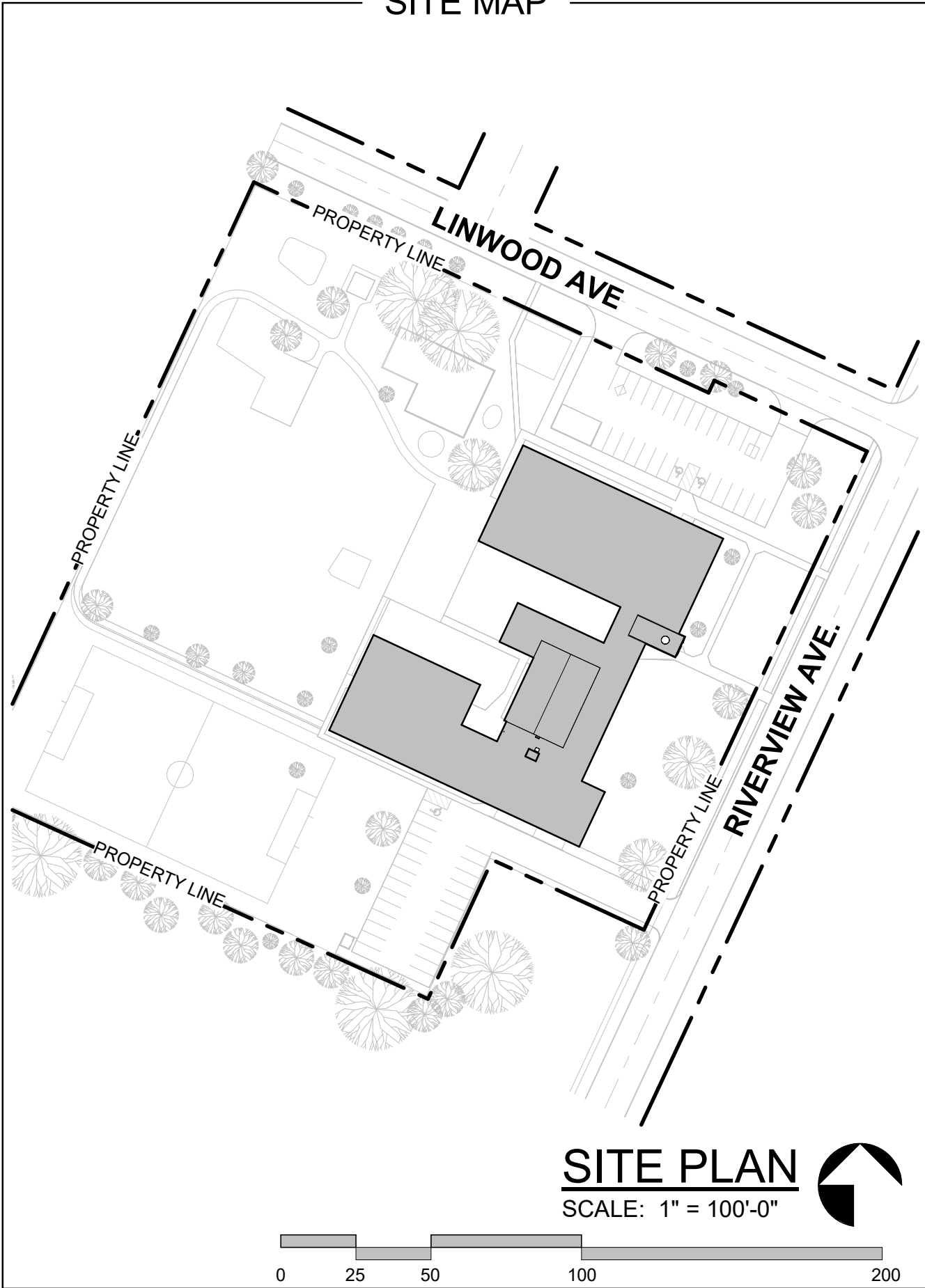


DATE	DESCRIPTION
02.09.2026	BIDDING & STATE REVIEW

## LOCATION MAP



## SITE MAP



## PROJECT DIRECTORY

**OWNER:**  
MONROE PUBLIC SCHOOLS  
1275 NORTH MACOMB STREET  
MONROE, MICHIGAN 48162

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1110 WEST FRONT STREET  
MONROE, MICHIGAN 48161

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MAUMEE, OHIO 43537

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## PROJECT DESCRIPTION

### PROJECT NARRATIVE:

WORK INCLUDES BUT IS NOT LIMITED TO THE INSTALLATION OF NEW BOILERS. MINOR MECHANICAL, ELECTRICAL AND PLUMBING MODIFICATIONS TO BE COMPLETED TO TIE NEW BOILERS INTO EXISTING SYSTEM. CONCRETE SLAB WORK, WALL AND FLOOR PATCHING, PAINTING, DOOR AND FRAME REPLACEMENTS, DOOR HARDWARE UPDATES, LIGHTING UPDATES, ROOFING AND OTHER RELATED ITEMS WILL BE PART OF THIS WORK.

### ALTERNATE #1:

INCLUDES BUT IS NOT LIMITED TO THE WORK ASSOCIATED WITH THE INSTALLATION OF GAS FIRED DOMESTIC WATER HEATER.

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**BOILER REPLACEMENT & RELATED WORK**

**HOLLYWOOD ELEMENTARY SCHOOL**

1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162

**MONROE PUBLIC SCHOOLS**

1275 NORTH MACOMB STREET, MONROE, MICHIGAN 48162

AT

FOR

JOB # 26101

TITLE SHEET

T0.00



ABBREVIATIONS

"	INCHES	GFI	GROUND FAULT INTERRUPTED	RTU	ROOF TOP UNIT
#	POUND/NUMBER	GL	GLASS	S	SOUTH
%	PERCENT	GYP.	GYP. BOARD	S.F.	STOREFRONT
&	AND	BD.		SAN.	SANITARY
'	FEET			SCHED	SCHEDULED
/	PER	HB	HOSE BIBB	SD	STORM DRAIN / SMOKE DETECTOR
<	ANGLE	HC	HANDICAP ACCESSIBLE	SECT.	SECTION
@	AT	HDW	HARDWARE	SGT	STRUCTURAL GLAZED TILE
©	COPYRIGHT	HM	HOLLOW METAL	SHT	SHEET
°	DEGREE	HORIZ	HORIZONTAL	SHWR	SHOWER
±	PLUS/MINUS	HR	HOUR	SIM.	SIMILAR
Ø	DIAMETER	HSS	HOLLOW STEEL SECTION	SP.	SPACES
		HT	HEIGHT	SPEC.	SPECIFICATION
A.C.	AIR CONDITIONING	HVAC	HEATING / VENTILATING / AIR CONDITIONING	SQ.	SQUARE
ACT	ACOUSTICAL CEILING TILE			SS	STAINLESS STEEL
ADD	ADDITIONAL / ADDENDUM			STD	STANDARD
ADJ	ADJACENT	IN	INCH(ES)	STL	STEEL
AFF	ABOVE FINISHED FLOOR	INFO	INFORMATION	STO.	STORAGE
AHU	AIR HANDLING UNIT	INSUL	INSULATION	STRUC.	STRUCTURAL
ALT	ALTERNATE	INT	INTERIOR	SUSP.	SUSPENDED
ALUM	ALUMINUM			SYM.	SYMMETRICAL
ANOD	ANODIZED	JAN	JANITOR		
APPRO	APPROXIMATE	JST.	JOIST	T.	TOILET
X		JT	JOINT	T.G	TEMPERED GLASS
ARCH	ARCHITECTURAL			T.O.	TOP OF
AUTO	AUTOMATIC			T.O.C	TOP OF CONCRETE
		k	KIP (1000 lbs)	T.S.	TUBE STEEL
B.O.	BOTTOM OF	K.D	KNOCK DOWN	T.V.	TELEVISION
B.PL.	BASE PLATE	KIT	KITCHEN	TECH	TECHNICAL
BD	BOARD	KW	KILOWATT	TELE	TELEPHONE
BLDG	BUILDING			TEMP	TEMPERATURE
BLK	BLOCK	L	LEGNTH	THRU	THROUGH
BLKG	BLOCKING	L.G.	LONG	TRANS	TRANSITION
BOT	BOTTOM	L.H.	LEFT HAND	TYP.	TYPICAL
BTW	BETWEEN	L.L.	LIVE LOAD		
		L.W.C.	LIGHT WEIGHT CONCRETE	U.N.O.	UNLESS NOTED OTHERWISE
C.G	CORNER GUARD	LAB	LABORATORY	UL	UNDERWRITERS LABORATORIES, INC.
C.I.	CAST IRON	LAM	LAMINATE	UNF	UNFINISHED
C.I.P.	CAST-IN-PLACE	LAV	LAVATORY	UR	URINAL
C.J.	CONTROL JOINT	LB	POUND		
C.L.	CENTERLINE	LT	LIGHT	VB	VAPOR BARRIER
C.O.	CLEAN OUT	LTL	LINTEL	VCT	VINYL COMPOSITION TILE
CL	CLOSET	LVR	LOUVER	VERT	VERTICAL
CLG	CEILING			VEST.	VESTIBULE
CLKG	CAULKING	M.O.	MASONRY OPENING	VIF	VERIFY IN FIELD
CLR	CLEAR	MAS	MASONRY	VWC	VINYL WALL COVERING
CLRM	CLASSROOM	MATL	MATERIAL	W	WEST
CMU	CONCRETE MASONRY UNIT	MAX.	MAXIMUM	W.C.	WATER CLOSET
COL	COLUMN	MBR	MEMBER	W/	WITH
CONC	CONCRETE	MDF	MEDIUM DENSITY FIREBOARD	W/O/	WITHOUT
COORD	COORDINATE	MECH	MECHANICAL	WD	WOOD
CORR	CORRIDOR	MED	MEDIUM	WF	WIDE FLANGE
CPT	CARPET	MEMB	MEMBRANE	WH	WATER HEATER
CT	CERAMIC TILE	MEZZ	MEZZANINE	WT.	WEIGHT
		MFR	MANUFACTURER	WTR	WATER
D.F.	DRINKING FOUNTAIN	MH	MANHOLE	WWF	WELDED WIRE FIREBRIC
D.L.	DEAD LOAD	MIN	MINIMUM		
D.O.	DOOR OPENING	MIRR	MIRROR	XFMR	TRANSFORMER
DEG	DEGREE	MISC.	MISCELLANEOUS		
DEPT	DEPARTMENT	MTD	MOUNTED		
DIA	DIAMETER	MTL	METAL		
DIM	DIMENSION	MULL	MULLION		
DIV	DIVISION	MULT	MULTIPLE		
DN	DOWN				
DR	DOOR	N	NORTH		
DS	DOWNSPOUT	N.I.C.	NOT IN CONTRACT		
DTL	DETAIL	N.O.	NUMBER		
DWG	DRAWING	N.R.	NOT RATED		
		N.T.S.	NOT TO SCALE		
E	EAST	NFPA	NATIONAL FIRE PROTECTION ASSN		
E.J.	EXPANSION JOINT	NOM	NOMINAL		
E.S.	EACH SIDE	NORM	NORMAL		
EA.	EACH				
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	O.C.	ON CENTER		
EL.	ELEVATION	O.D.	OVERFLOW DRAIN		
ELEC	ELECTRICAL	O.H.	OVERHEAD		
ELEV.	ELEVATOR	OFF	OFFICE		
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	OPNG	OPENING		
EQ	EQUAL	OPP	OPPOSITE		
EQUIP	EQUIPMENT	ORIG	ORIGINAL		
EXIST	EXISTING	OVHG	OVERHANG		
EXP	EXPANSION	OZ	OUNCE		
EXT	EXTERIOR				
		P.C.	PRECAST CONCRETE		
F.A.	FIRE ALARM	P.T.	PRESSURE TREATED		
F.D.	FLOOR DRIAN	PAR	PARALLEL		
F.E.	FIRE EXTINGUISHER	PARA	PARAPET		
F.E.C.	FIRE EXTINGUISHER CABINET	PERF.	PERFORATED		
F.HYD.	FIRE HYDRANT	PL	PLATE		
F.O.	FACE OF	PLAM	PLASTIC LAMINSTE		
F.R	FIRE RATED	PLUM	PLUMBING		
F.R.P.	FIBER-REINFORCED PLASTIC	PLYWD	PLYWOOD		
F.R.T.	FIRE RETARDANT TREATED	PSF	POUNDS / SQUARE FOOT		
FDC	FIRE DEPARMENT CONNECTION	PT	PAINT		
FF	FINISH FLOOR	PVC	POLYVINYL CHLORIDE		
FIN.	FINISH	PVMT	PAVEMENT		
FIXT	FIXTURE	PWR	POWER		
FLASH	FLASHING	QT	QUARRY TILE		
FLR	FLOORING	QTY	QUANTITY		
FRMG	FRAMING	R.A.	RETURN AIR		
FT	FOOT / FEET	R.B.	RUBBER OR RESILIENT BASE		
FTG	FOOTING	R.D.	ROOF DRAIN		
FURR	FURRING	R.O.	ROUGH OPENING		
		RAD	RADIUS		
G	GAS	REF	REFERENCE		
G.B.	GRADE BEAM	REFG	REFRIGERATOR		
G.C.	GENERAL CONTRACTOR	REINF	REINFORCED		
G.R.	GUARDRAIL	REQD	REQUIRED		
GA	GAUGE	REV	REVISED / REVISION		
GALV	GALVENIZED	RH	ROOF HATCH		
GB	GRAB BAR	RM	ROOM		
GEN	GENERATOR				

SYMBOLS LEGEND

**BUILDING SECTION CUT**

**WALL SECTION CUT**

**DETAIL SECTION CUT**

**EXTERIOR ELEVATIONS**

**INTERIOR ELEVATIONS**

**REVISIONS**

REVISION TAG & BUBBLE

**ENLARGED PLAN/DETAIL**

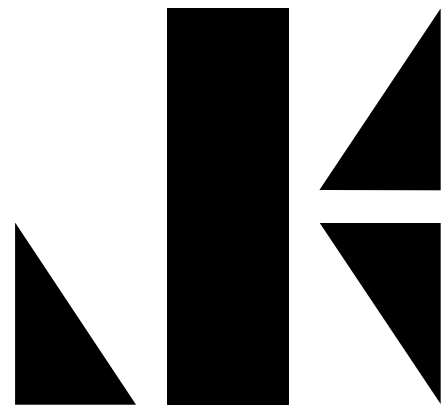
DETAIL NUMBER  
BOARDER OF ENLARGED AREA  
SHEET SECTION IS SHOWN ON

**DRAWING TAGS**

101 — DOOR TAG  
11 — WINDOW TAG  
11 — WALL TAG  
X — SITE KEYNOTE  
X — CONSTRUCTION KEYNOTE  
X — DEMOLITION KEYNOTE  
X — CEILING KEYNOTE  
X — ROOF KEYNOTE  
SLOPE RATIO — SLOPE TAG  
TRUE NORTH ARROW  
ROOM NAME 101 TYP. ROOM TAG W/ NUMBER

GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH APPLICABLE SECTIONS OF THE FEDERAL, STATE AND LOCAL BUILDING CODES, ZONING ORDINANCE, HEALTH AND FIRE REGULATIONS AS ADOPTED BY THE LOCAL GOVERNING BUILDING AUTHORITY.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY BUILDING PERMITS FROM ALL GOVERNING AGENCIES INCLUDING THE CITY / TOWNSHIP AND SUBMIT FOR THEIR USE ANY CERTIFICATES OF INSURANCE, BONDS, ESCROW ACCOUNTS, LICENSES, PAY ALL FEES, OBTAIN ALL APPROVALS, ETC. ALL AS MAY BE REQUIRED TO COMPLETE THIS PROJECT
- CONTRACTOR SHALL RETAIN THE SERVICES OF AN APPROVED THIRD PARTY AGENCY TO PERFORM ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY THE LOCAL GOVERNING BUILDING CODE, GOVERNING BUILDING AUTHORITY, OR AS CALLED OUT IN THESE CONSTRUCTION DOCUMENTS. NOTIFY OWNER / ARCHITECT, IMMEDIATELY, OF ANY FAILED TESTS OR INSPECTIONS AND PROVIDE OWNER WITH ALL WRITTEN REPORTS AND TEST RESULTS AT PROJECT COMPLETION.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK. IF ANY DIFFERENCES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY, IN WRITING FOR CLARIFICATION PRIOR TO PROCESSING WITH WORK.
- THESE DOCUMENTS ARE DEVELOPED TO PROVIDE THE CONTRACTOR WITH A WORKING KNOWLEDGE OF THE SYSTEMS AND MATERIALS TO BE INSTALLED, AND THE SCOPE OF WORK. WHERE THESE DOCUMENTS ARE IN CONFLICT WITH THE JOB CONDITIONS, OR STANDARD DETAILS OR SPECIFICATIONS OF THE MANUFACTURED COMPONENT, OR AFFECT THE GUARANTEE, THEY SHALL BE MODIFIED AS REQUIRED BY THE CONTRACTOR AND APPROVED BY THE ARCHITECT.
- PROVIDE AND MAINTAIN SUITABLE TEMPORARY FENCES, BARRICADES, LIGHTS, WARNINGS, ETC., FOR PROTECTION OF PUBLIC AND OTHERS HAVING ACCESS TO THE SITE. CONTRACTOR SHALL KEEP CLEAN AND ADEQUATELY PROTECT ALL STREETS, DRIVES, WALKS, BLDGS, ETC., FROM DAMAGE DUE TO ANY ITEM INVOLVED WITH THIS WORK. ANY DAMAGED WORK SHALL BE REPLACED / REPAIRED AT CONTRACTORS EXPENSE.
- CONTRACTOR SHALL RELY ON WRITTEN DIMENSIONS (DO NOT SCALE DRAWINGS), WHERE NONE ARE PRESENT OR IN CONFLICT WITH WRITTEN, FIELD MEASURE AND/OR OR NOTIFY ARCHITECT FOR CLARIFICATION.
- SHOULD THE CONTRACT DOCUMENTS DISAGREE (DRAWINGS AND SPECIFICATIONS), THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING. THE BETTER QUALITY OR LARGER QUANTITY OF MATERIAL OR WORK SHALL BE INCLUDED IN THE BID AND UNLESS OTHERWISE ORDERED IN WRITING, SHALL BE FURNISHED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS, SPECIFICATIONS AND ALL OTHER DATA OR INSTRUCTIONS PERTAINING TO THE WORK. BEFORE COMMENCING PHYSICAL WORK, THE CONTRACTOR SHALL LOCATE ALL GENERAL REFERENCE POINTS AND TAKE SUCH ACTION AS IS NECESSARY TO PREVENT THEIR DESTRUCTION; LAY OUT HIS WORK AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS OF BUILDINGS, GRADING, PAVING, UTILITIES AND OTHER WORK EXECUTED BY HIM UNDER THE CONTRACT. HE MUST EXERCISE PROPER PRECAUTIONS TO VERIFY FIGURES SHOWN ON DRAWINGS BEFORE LAYING OUT WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, HIS SUB-CONTRACTOR AND/OR SUPPLIER TO WORK FROM A FULL SET OF CONTRACT DOCUMENTS FOR BOTH THE WORK TO BE COMPLETED AND IN PREPARATION OF THE SHOP DRAWINGS, SO THAT EACH PART OR COMPONENT WILL WORK WITH THOSE PARTS AS FURNISHED OR FABRICATED BY OTHERS, AND THE ASSEMBLED WHOLE WORKS TOGETHER AS INTENDED.
- MATERIALS - SHALL BE NEW. SECONDS OR DAMAGED MATERIALS WILL BE REJECTED BY THE ARCHITECT, WHO RESERVES THE RIGHT TO DISAPPROVE AND REJECT ANY MATERIALS PROPOSED OR INSTALLED, WHICH IN HIS OPINION FAIL TO MEET QUALITY STANDARDS SPECIFIED.
- THE ARCHITECT SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF, OR EXPOSURE OF PERSONS TO ASBESTOS AND HAZARDOUS MATERIALS IN ANY FORM FOR THE PROJECT.
- AS-BUILTS - THE CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL DEVIATIONS FROM THE CONTRACT DRAWINGS AND SPECIFICATIONS. HE SHALL NEATLY AND CORRECTLY DRAFT (NO FREEHAND) ANY DEVIATIONS ON THE DRAWINGS AFFECTED AND SHALL KEEP DRAWINGS AVAILABLE FOR INSPECTION. GIVE TO THE ARCHITECT AT COMPLETION.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS (INCLUDING, BUT NOT LIMITED TO: STRUCTURAL MEMBERS, MECHANICAL DUCTS AND INSULATION, CONDUITS, RACEWAYS, SPRINKLER SYSTEM, LIGHT FIXTURES, CEILING SYSTEM, AND ANY SPECIAL STRUCTURAL SUPPORTS REQUIRED) AND SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE FINISHED FLOOR INDICATED IN THE DRAWINGS AND THE FINISH SCHEDULE. (CEILING HEIGHT DIMENSIONS ARE TO THE FINISH SURFACE OF THE CEILING).
- IN AREAS OF NEW WORK, ACCESS PANELS SHALL BE PROVIDED AND INSTALLED WHEREVER REQUIRED BY CODE OR FOR THE PROPER OPERATION OR MAINTENANCE OF MECHANICAL OR ELECTRICAL EQUIPMENT (I.E. TERMINAL BOXES, VALVES, DAMPERS, ETC.), WHETHER OR NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE, LOCATION, AND TYPE OF ACCESS PANEL WITH OTHER CONTRACTORS WORK AND RECEIVE APPROVAL OF THE ARCHITECT. ACCESS PANEL SHALL NOT BE LOCATED, FRAMED OR INSTALLED WITHOUT EXPRESSED APPROVAL OF THE ARCHITECT.
- ALL DUCT PENETRATION THROUGH PARTITIONS AND CEILINGS SHALL BE PROVIDED WITH NECESSARY FRAMED OPENINGS, BRACING, AND FIRE DAMPERS AS REQUIRED BY CODE.
- THE ARCHITECT SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BUILDING PRIOR TO PROCEEDING WITH WORK.
- SIZE OF MECHANICAL AND ELECTRICAL EQUIPMENT PADS AND BASES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY DIMENSIONS WITH RESPECTIVE EQUIPMENT MANUFACTURER.



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**MONROE PUBLIC SCHOOLS**

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AT

FOR

JOB # 26101

ABBREVIATIONS,  
LEGENDS, SYMBOLS

T1.00



HOLLYWOOD ELEMENTARY SCHOOL



1135 Riverview Avenue, Monroe, MI

BUILDING CODE REVIEW

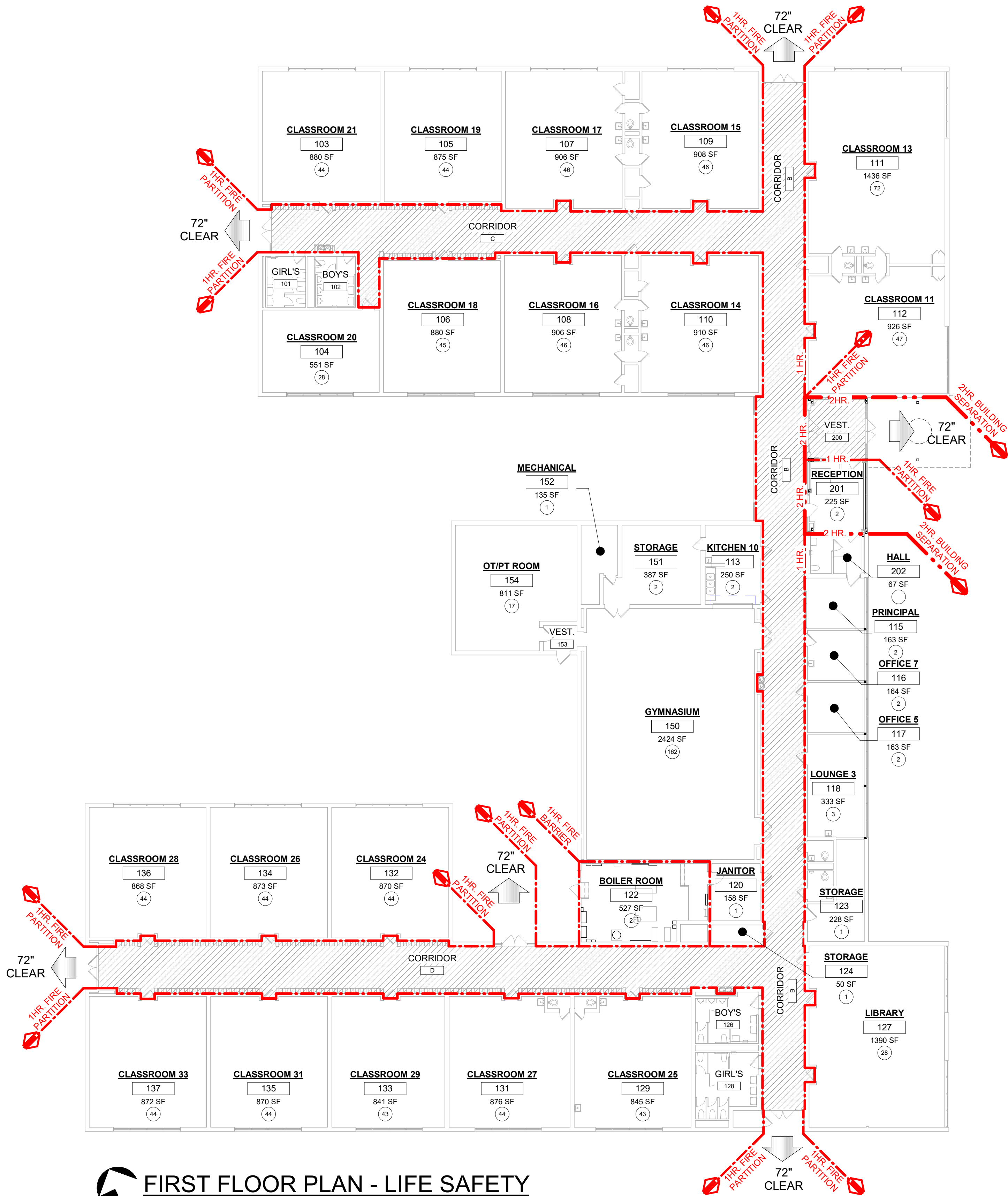
PROJECT DESCRIPTION	EXISTING SCHOOL BUILDING - BOILER REPLACEMENT & RELATED WORK	
BUILDING CODE:	2021 MICHIGAN BUILDING CODE 2021 MICHIGAN REHABILITATION CODE 2021 MICHIGAN MECHANICAL CODE 2021 MICHIGAN PLUMBING CODE 2021 MICHIGAN ENERGY CODE 2023 NATIONAL ELECTRICAL CODE (NEC) 2012 NFPA 101 LIFE SAFETY CODE 2016 SCHOOL FIRE SAFETY RULES 1991 / 2010 ADA STANDARDS	

BUILDING AREA:	EXISTING BUILDING (GROSS)	= 33,691 S.F.
BUILDING OCCUPANCY TYPE:	(SEC. 305.1)	EDUCATIONAL GROUP E
CONSTRUCTION TYPE:	(SEC. 602.5, TABLE 601)	TYPE IIB NS
ALLOWABLE AREA:	(TABLE 506.2)	12,000 S.F.
INCREASE ALLOWABLE:	(SEC. 506.2.1)	N.R.
ALLOWABLE HEIGHTS:	(TABLE 504.3)	55'
ALLOWABLE NUMBER OF STORIES:	(TABLE 504.4)	2
HEIGHT MODIFICATION:	(SEC. 504.3)	N.A.
FIRE RESISTIVE CONSTRUCTION:	(TABLE 601)	0
STRUCTURAL FRAMING:	(TABLE 601, 602)	0 (NFPA 101, TABLE A.8.2.1.2) 0
BEARING WALLS:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
EXTERIOR:	(TABLE 601, 602)	1 HR. <=5' (NFPA 5000, TABLE 7.3.2.1) 1 HR. <=3'
INTERIOR:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
NON-BEARING WALLS:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
EXTERIOR:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
FLOOR CONSTRUCTION:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
ROOF CONSTRUCTION:	(TABLE 601)	0 (NFPA 101, TABLE A.8.2.1.2) 0
FIRE WALLS:	(SEC. 706, TABLE 706.4)	2 HR. (AREA SEPARATION)
FIRE BARRIER:	(SEC. 1023.2)	N/A
INT. EXIT STAIR/RAMP:	(SEC. 713.4)	N/A
EXIT ACCESS STAIR:	(SEC. 708)	N/A
EXIT PASSAGEWAY:	(SEC. 1026.1)	N/A
HORIZ. EXIT (REFUGE AREA):	(SEC. 404.6)	N/A
ATRIUM:	(TABLE 509)	N/A
INCIDENTAL USES:	(SEC. 414.2.4)	N/A
CONTROL AREA:	(SEC. 508.4, TABLE 508.4)	N/A
SEPARATED OCCUPANCIES:	(SEC. 707.3.10)	2 HR.
FIRE AREAS:	(TABLE 705.6)	NO LIMIT > 30FT. FIRE SEPARATION
EXT. DOORS + WINDOWS:	(SEC. 708, SEC. 1020.1)	1 HR. W/O SPRINKLER SYSTEM AND > 30 PEOPLE
FIRE PARTITIONS:	(SEC. 709.4)	N/A
CORRIDOR WALLS:	(TABLE 716.5)	20 MIN. IN (1) HR. WALLS
SMOKE BARRIERS:	(TABLE 716.5)	45 MIN.
OPENING PROTECTIVES:	(SEC. 718)	REQUIRED IF COMBUSTIBLE CONSTRUCTION IN FLOOR / CEILING
CORRIDOR DOORS:	(SEC. 718)	REQUIRED IF COMBUSTIBLE CONSTRUCTION IN WALLS
CORRIDOR OPENINGS:	(SEC. 901.7, SEC. 903.2.3)	REQUIRED IF FIRE AREA > 12,000 S.F. (BETWEEN FIRE SEPARATION)
DRAFTSTOPPING:	(SEC. 907.2.3)	REQUIRED IN GROUP E OCCUPANCY WITH > 50 OCCUPANTS (NEW BUILDINGS AND STRUCTURES)
FIRE BLOCKING:	(SEC. 906)	N/A
FIRE SPRINKLERS:	(SEC. 410.4, 410.7)	EXISTING - N.A.
FIRE ALARMS:		
FIRE EXTINGUISHERS:		
PLATFORMS / STAGES:		

MEANS OF EGRESS:	NFPA 101, SEC. 7.3.1.1.2)	WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED, THE MEANS OF EGRESS SHALL BE OF SUCH WIDTH AND CAPACITY THAT THE LOSS OF ANY ONE MEANS OF EGRESS LEAVES AVAILABLE NOT LESS THAN 50% OF THE REQUIRED CAPACITY.
EGRESS CAPACITY:		
WIDTH OF EGRESS:	(SEC. 1005)	STAIRS = 0.3' / OCCUPANT (W/O SPRINKLERS) OTHER = 0.2' / OCCUPANT (W/O SPRINKLERS)
CORRIDOR WIDTH:	(TABLE 1020.2)	44" MIN.; AREAS OF OCCUPANT LOAD < 50 PEOPLE = 36" MIN.;
DOORS:	(SEC. 1010)	AREAS OF OCCUPANT LOAD > 100 PEOPLE = 72" MIN.
ENCROACHEMNT:	(SEC. 1005.7)	MIN. 34" WIDE EXIT (36" WIDE FOR ADA) DOORS IN ANY POSITION CANNOT REDUCE REQUIRED WIDTH BY MORE THAN 7" MAX. HANDRAIL PROJECTION PER SIDE = 1-1/2"
EXIT ACCESS:	(SEC. 1016)	MAX. 1 INTERVENING SPACE
TRAVEL DISTANCE:	(TABLE 1017.2)	200' MAX. WITHOUT SPRINKLERS
DEAD-END CORRIDORS:	(SEC. 1020.4)	DEAD-END CORRIDORS IN ANY AREA SHALL NOT EXCEED 20 FT.
ELEVATOR/CONVEY SYSTEMS:	(SEC. 1009.2.1)	N/A
ACCESSIBILITY:	(SEC. 3001.2)	ELEVATORS REQUIRED TO BE ACCESSIBLE OR SERVE ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH SEC. 1009 AND 1109.7

FIRE RATED WALLS LEGEND	
	1 HOUR FIRE RATED BARRIER 1 HOUR FIRE RATED PARTITION
	2 HOUR FIRE RATED WALL

NOTE: CONTRACTOR SHALL STENCIL PAINT FIRE WALLS ABOVE ACCESSIBLE CEILINGS PER IBC 703.7



FIRST FLOOR PLAN - LIFE SAFETY  
SCALE: 1/16" = 1'-0"



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CODE COMPLIANCE  
PLAN

LS1.00





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**GENERAL DEMOLITION NOTES:**

- COORDINATE ALL DEMOLITION WITH THE OWNER'S HAZARDOUS MATERIAL ABATEMENT DOCUMENTS AND SCOPE.
- CONTRACTOR TO PROTECT ADJACENT AREAS TO CONSTRUCTION AND COMMON POINTS OF TRAVEL TO AND FROM CONSTRUCTION AREAS. PROTECTION IN THESE AREAS TO INCLUDE AIR QUALITY, WALK SURFACES, EQUIPMENT, FURNISHINGS, BUILDING OCCUPANTS, ETC. FROM DUST / DEBRIS, EXCESSIVE NOISE, WEAR, OR DAMAGE OF ANY KIND. PRIOR TO ANY PHYSICAL WORK, THE CONTRACTOR MUST HAVE A WRITTEN PLAN FOR PROTECTION APPROVED BY THE ARCHITECT.  
  
AREA OF HIGH REPLACEMENT VALUE OR MORE LIKELY FOR DAMAGE ARE TO HAVE ADDED PROTECTION (I.E. GYM FLOORS, ROOFING, ETC.)
- ANY WORK UNDER THE CONTRACT THAT WILL INTERRUPT THE OWNER'S ACTIVITIES SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
- ALL DEMOLITION WORK REQUIRED IS NOT LIMITED TO THAT INDICATED ON PLAN. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS NECESSARY TO FACILITATE NEW CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF DEMOLITION WORK, CONTRACTOR IS TO INSPECT ALL AREAS IN WHICH WORK WILL BE PERFORMED. DOCUMENT EXISTING CONDITIONS OF STRUCTURE, SURFACES, EQUIPMENT OR SURROUNDING AREAS WHICH COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM DEMOLITION WORK AND FILE WITH ARCHITECT.
- NOTIFY ARCHITECT IF ANY EXISTING ITEM THAT CONFLICTS WITH THE INTENDED FINAL PRODUCT IS NOT SPECIFICALLY CALLED OUT. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS & FIELD CONDITIONS BEFORE PROCEEDING WITH DEMOLITION AND / OR CONSTRUCTION.
- ALL DEMOLITION WORK, UNLESS OTHERWISE NOTED IN THE PROJECT MANUAL, DRAWINGS OR DIRECTED BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ALL DEBRIS CAUSED BY DEMOLITION AND CONSTRUCTION SHALL BE CLEARED AND REMOVED FROM THE SITE. DEBRIS STORAGE SHALL NOT INFRINGE ON CLEAR PATH OF EGRESS.
- PROTECT EXISTING STRUCTURES, FINISHES, UTILITIES AND OTHER ITEMS SCHEDULED TO REMAIN. AREAS THAT ARE DAMAGED BY SELECTIVE DEMOLITION SHALL BE PATCHED AND REPAIRED AND FINISHED OR REPLACED TO MATCH EXISTING ADJACENT SURFACES.
- CONTRACTOR TO COORDINATE A WALK THROUGH WITH THE OWNER PRIOR TO DEMOLITION TO IDENTIFY REMAINING ITEMS TO BE SALVAGED. FOR ANY ITEMS TO BE SALVAGED BY CONTRACTOR, PROVIDE A DETAILED INVENTORY LIST OF ALL SALVAGED ITEMS AND THEIR STORED LOCATIONS ON SITE.
- SHOULD HIDDEN FIELD CONDITIONS REQUIRE MODIFICATIONS TO THE LAYOUT, THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT.
- STRIP EXIST. FLOORS IN AREA TO RECEIVE NEW FLOOR FINISHES. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF FINISH MATERIALS ON EXIST. SUBSTRATES.
- AFTER DEMOLITION IS COMPLETE PATCH AND REPAIR EXIST. SURFACES TO REMAIN, AS REQUIRED FOR NEW FINISHES.

DATE	DESCRIPTION
02.09.2026	BIDDING & STATE REVIEW

**BOILER REPLACEMENT & RELATED WORK**

**HOLLYWOOD ELEMENTARY SCHOOL**

1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162

**MONROE PUBLIC SCHOOLS**

1275 NORTH MACOMBE STREET, MONROE, MICHIGAN 48162

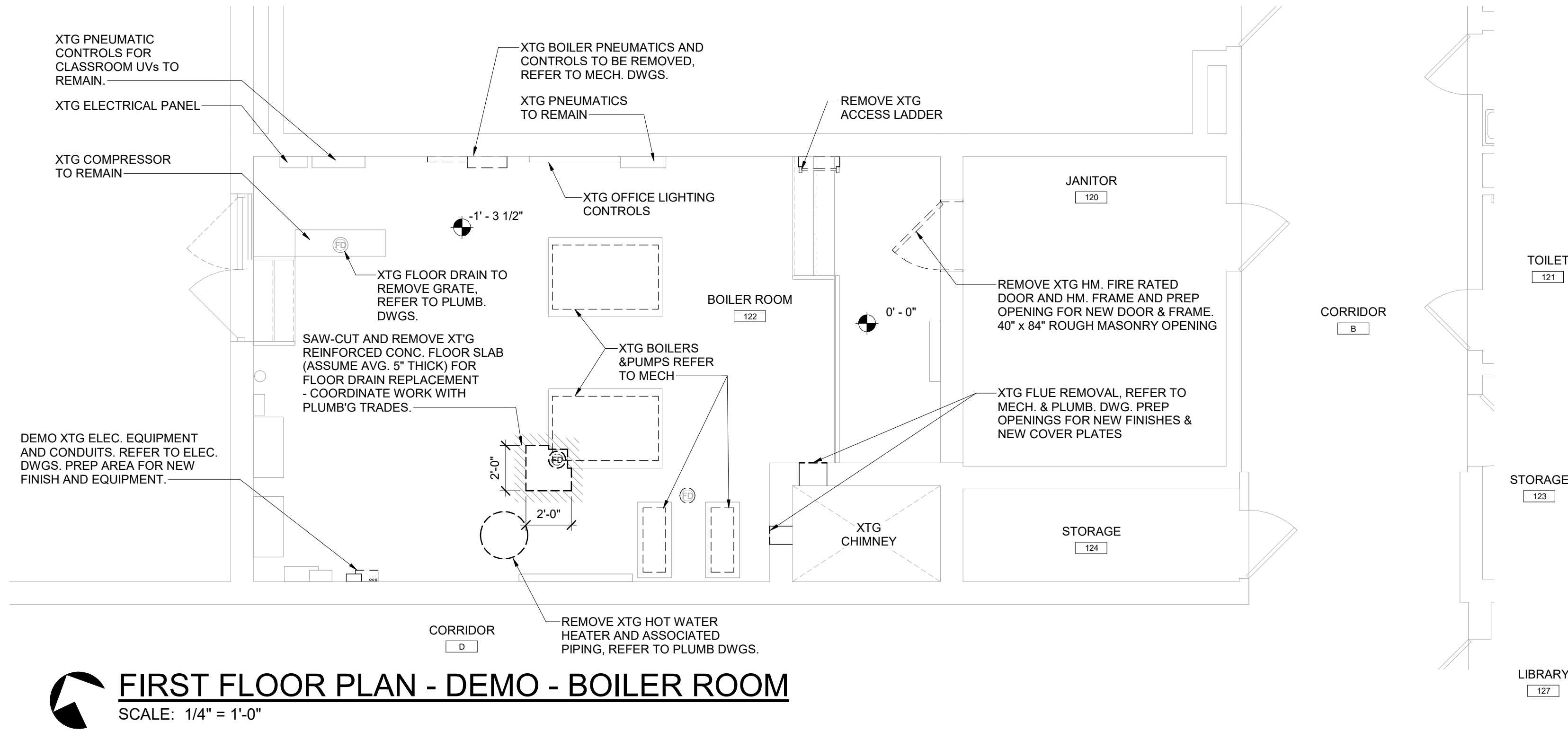
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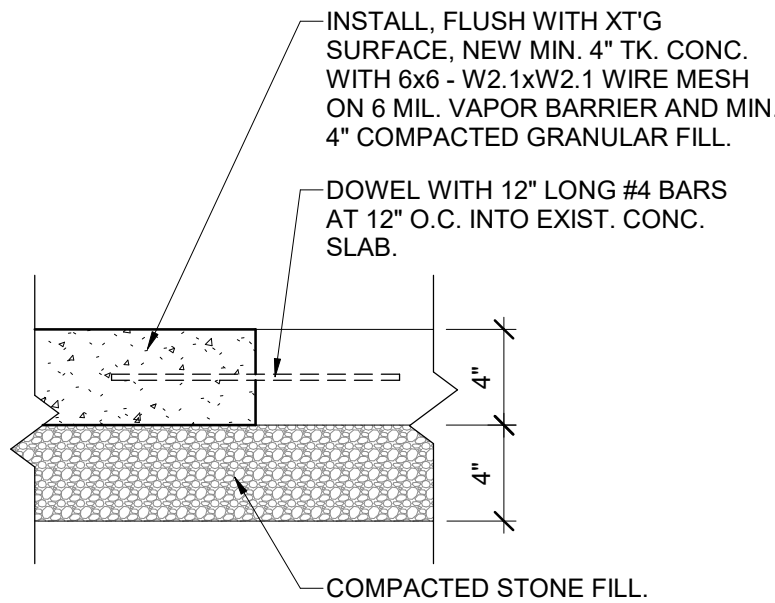
JOB # 26101

FLOOR PLANS  
CONSTRUCTION &  
DEMOLITION

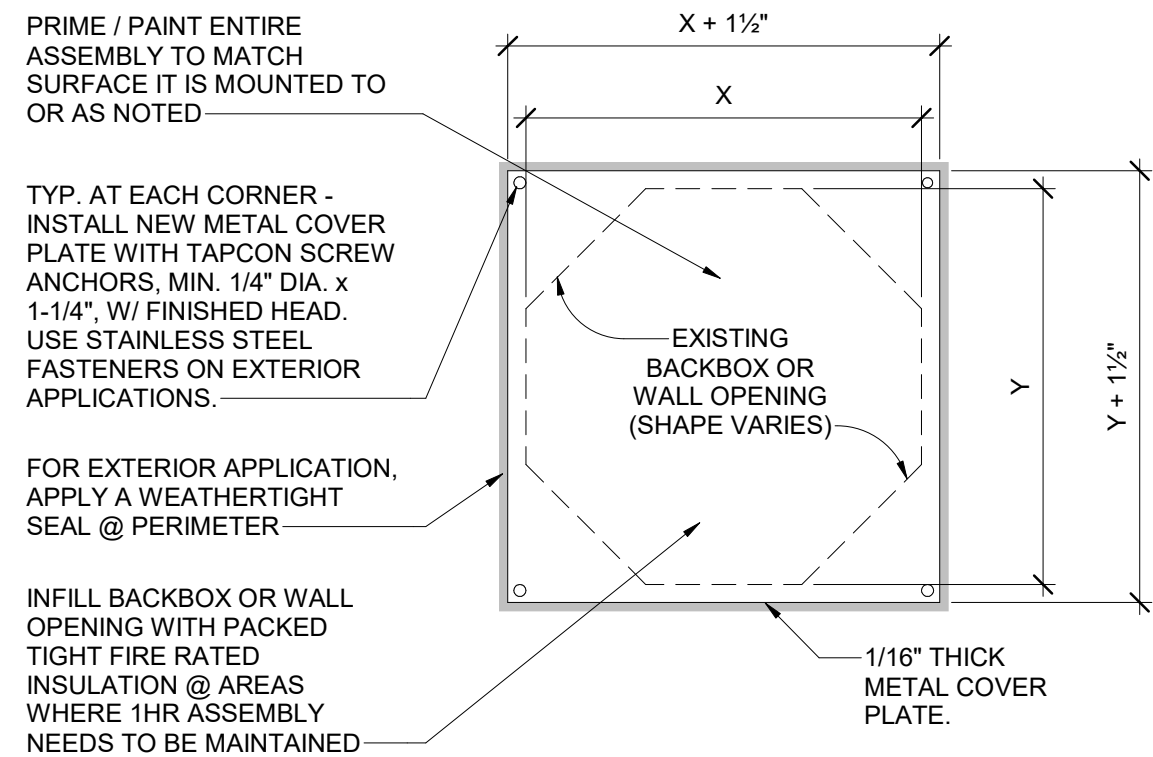
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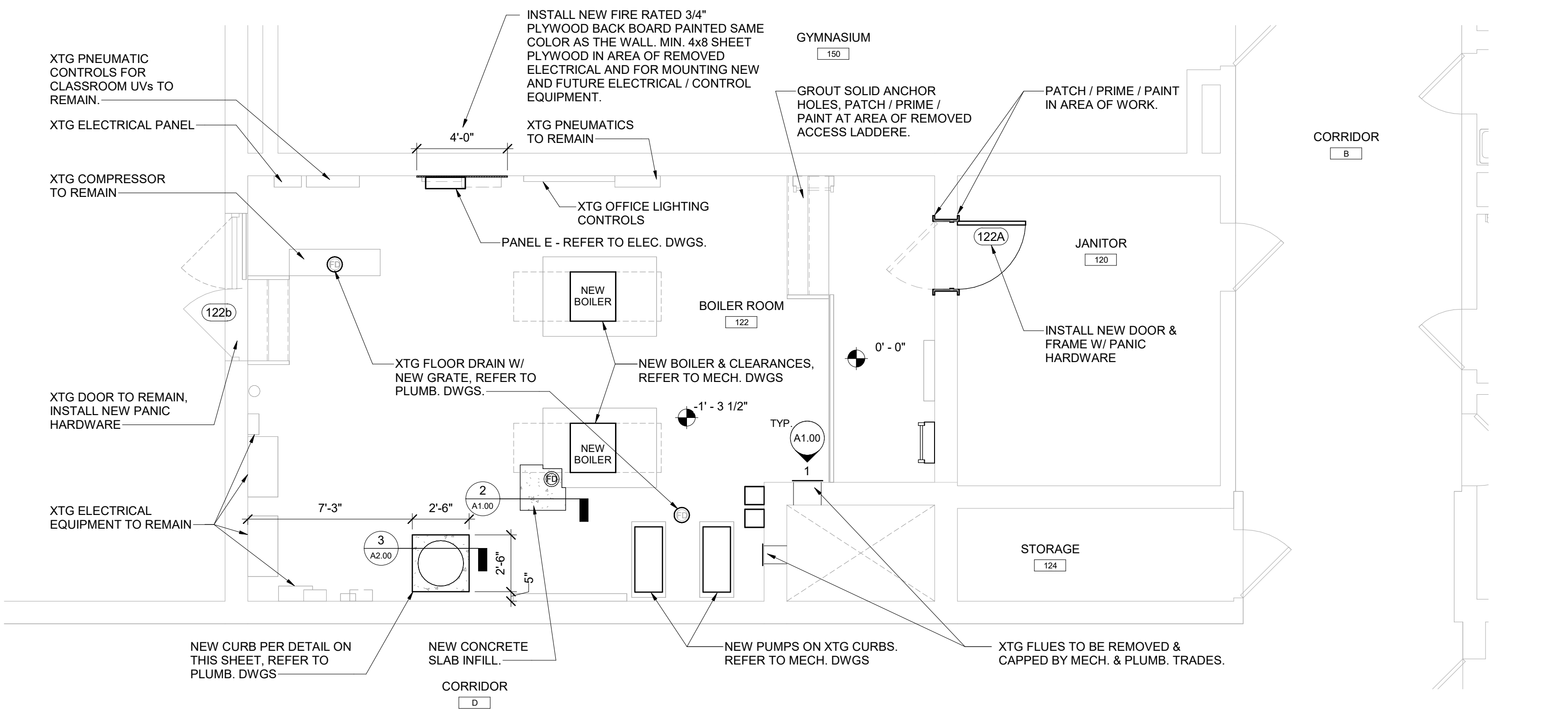
**FIRST FLOOR PLAN - DEMO - BOILER ROOM**  
SCALE: 1/4" = 1'-0"



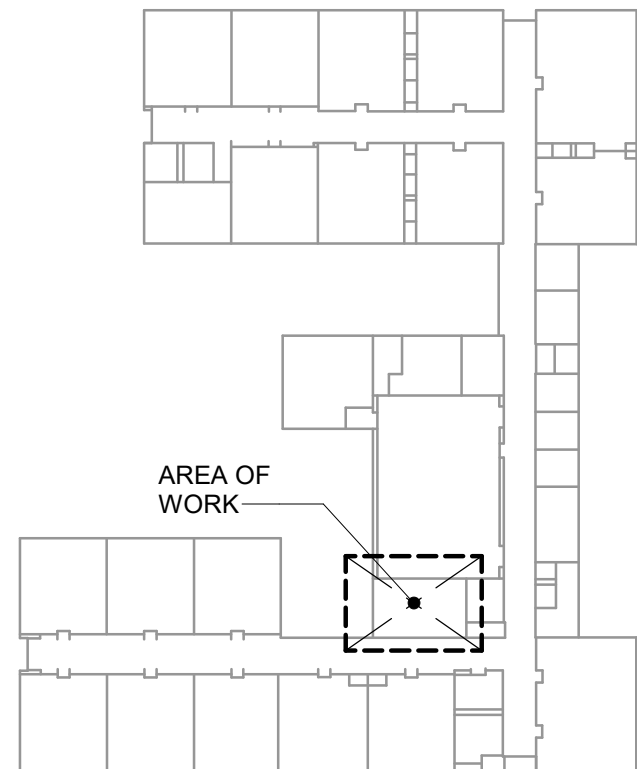
**2 TYP. SLAB INFILL**  
SCALE: 1 1/2" = 1'-0"



**1 TYP. COVER PLATE**  
SCALE: 1 1/2" = 1'-0"



**FIRST FLOOR PLAN - NEW - BOILER ROOM**  
SCALE: 1/4" = 1'-0"



**KEY PLAN**  
SCALE: 1/64" = 1'-0"

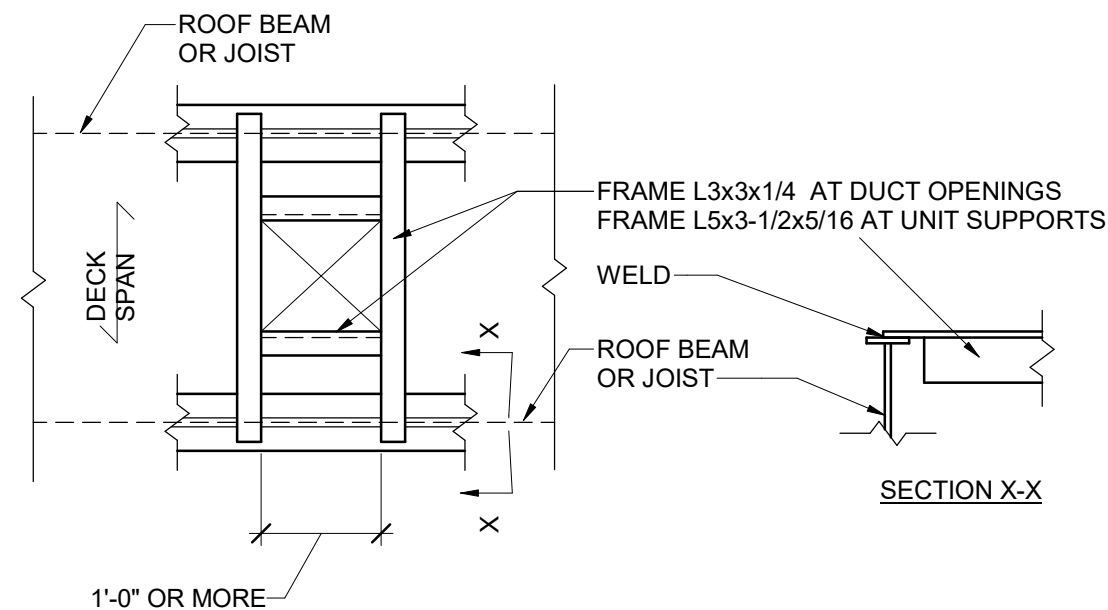




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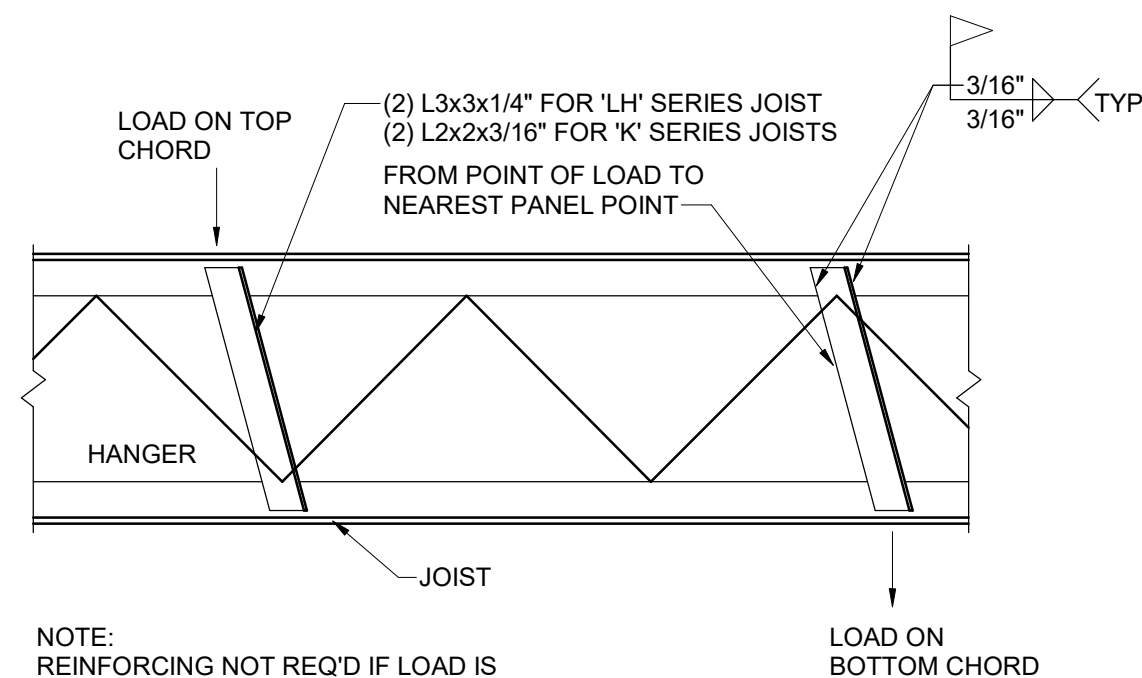
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**MAKE**  
Things Better



### TYP. ROOF OPENING SUPPORT

SCALE: 3/4" = 1'-0"



### TYP. JOIST REINFORCEMENT DETAIL

SCALE: 3/4" = 1'-0"

DATE	DESCRIPTION
02.09.2026	BIDDING & STATE REVIEW

#### BOILER REPLACEMENT & RELATED WORK

**HOLLYWOOD ELEMENTARY SCHOOL**  
1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162

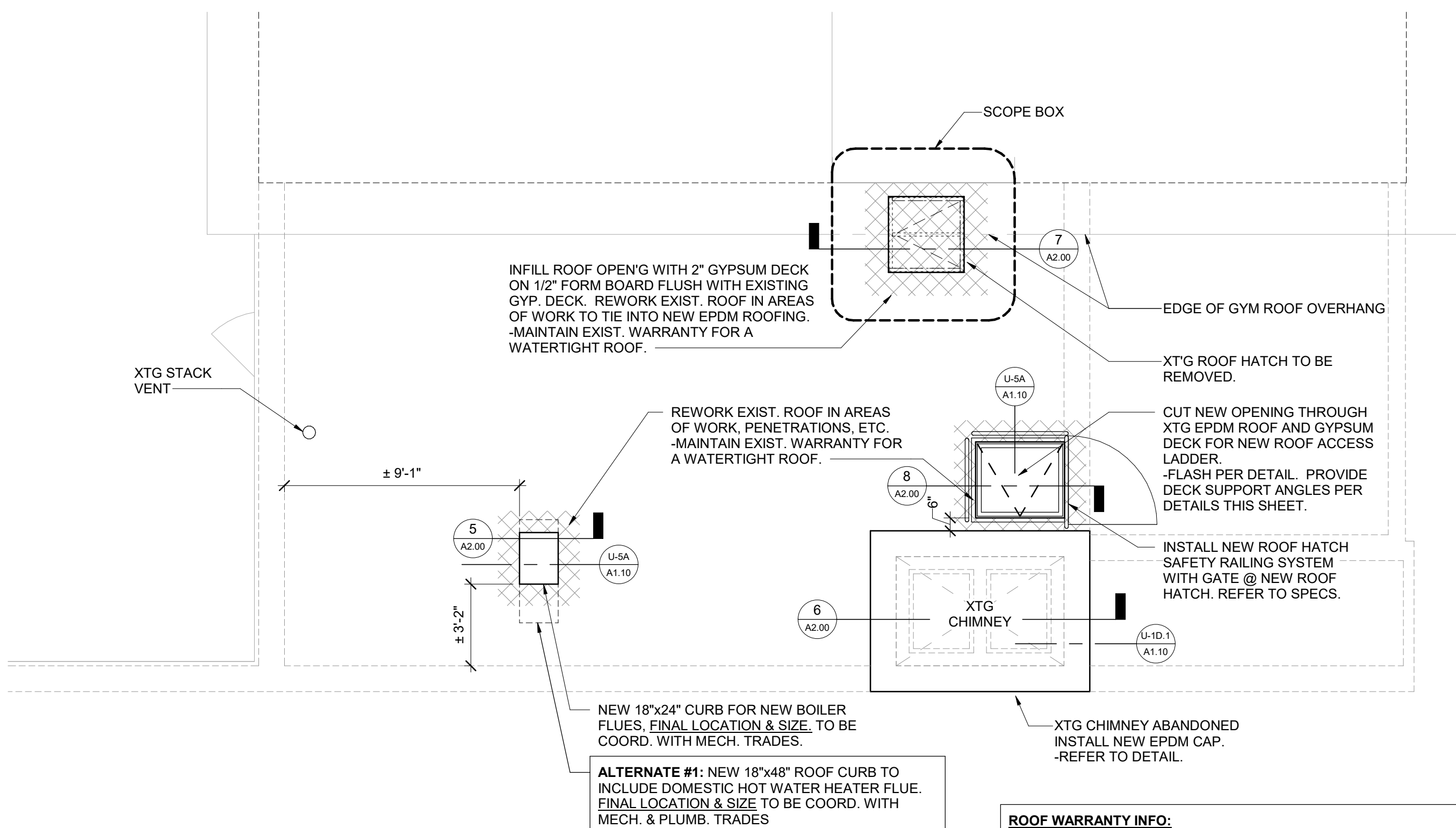
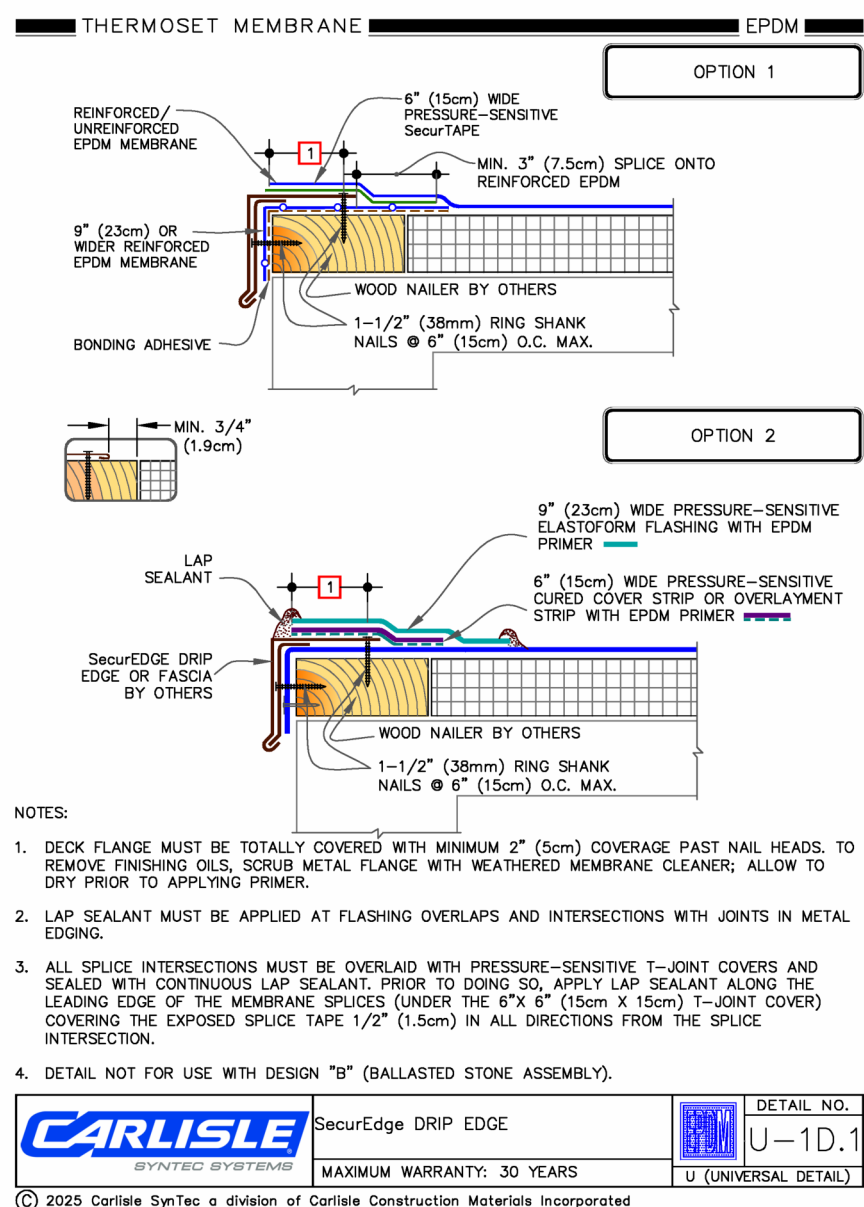
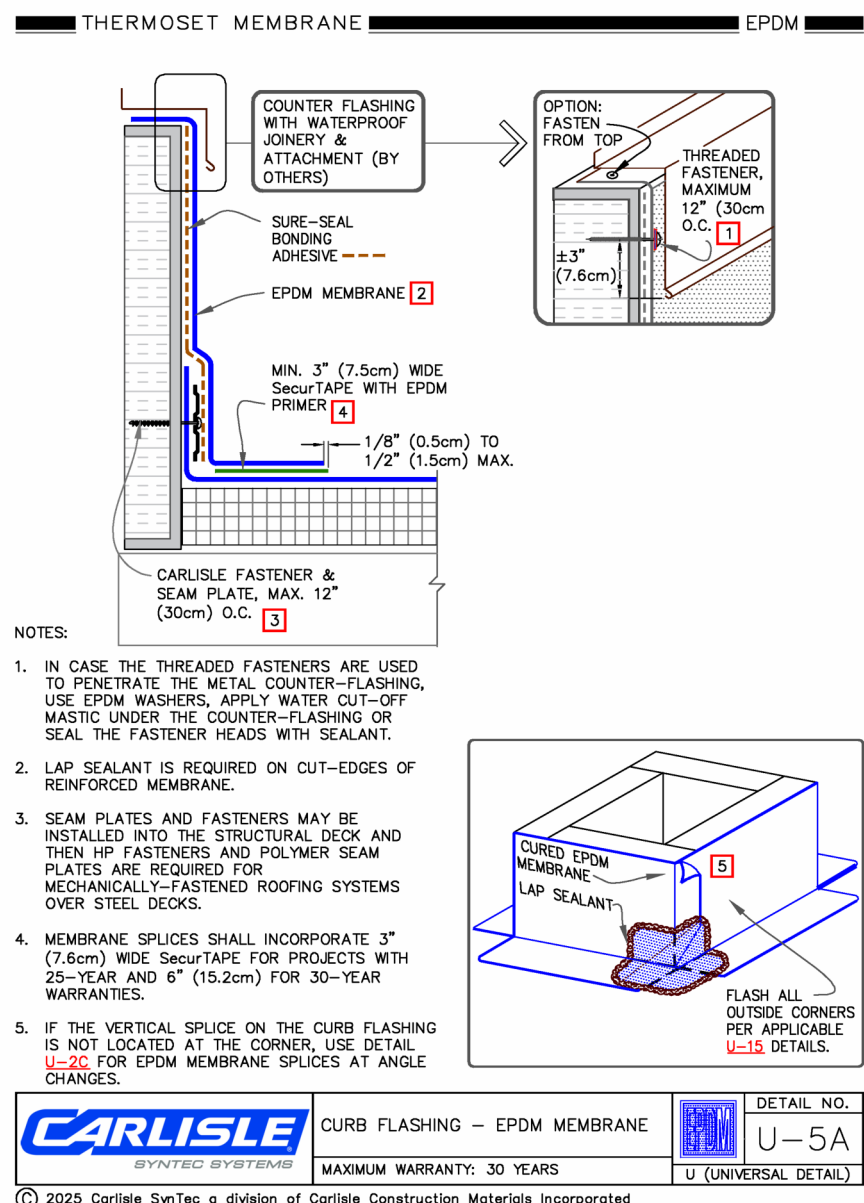
**MONROE PUBLIC SCHOOLS**  
1275 NORTH MACOMBE STREET, MONROE, MICHIGAN 48162

AT FOR

JOB # 26101

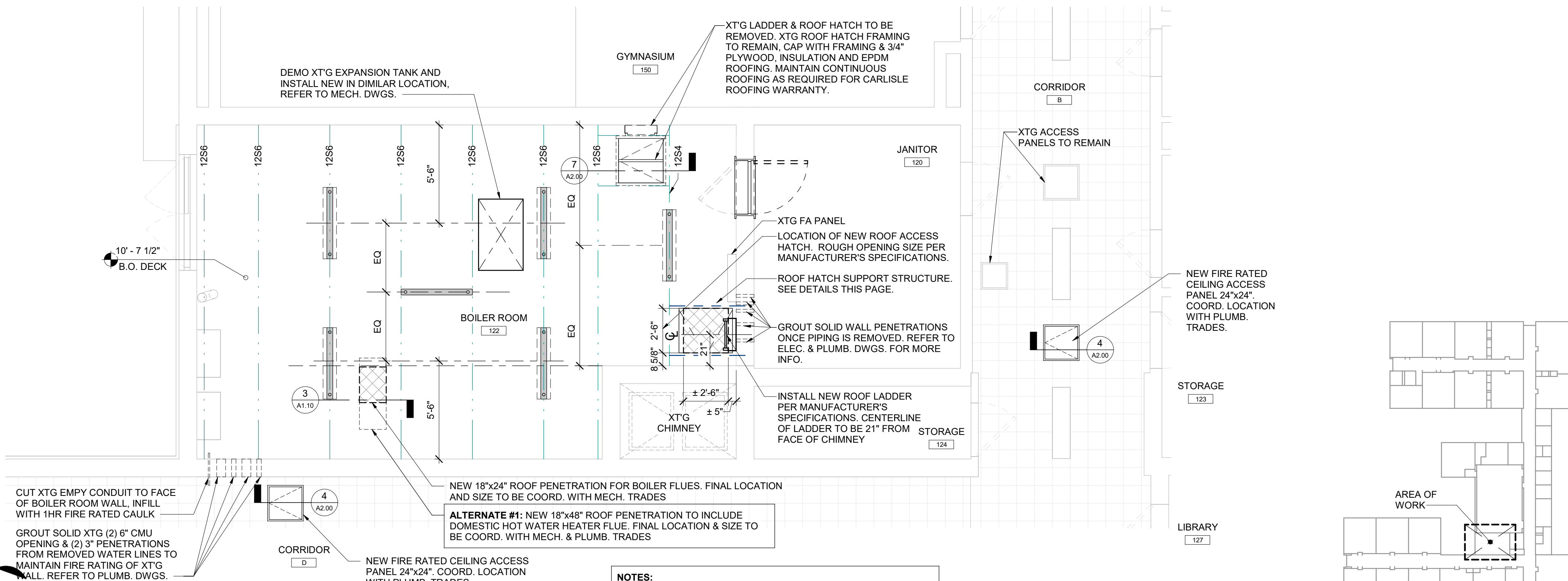
CEILING PLAN &  
ROOF PLAN

**A1.10**



### ROOF PLAN - BOILER ROOM

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



### FIRST FLOOR - RCP - BOILER ROOM

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

- NOTES:**
- FINAL LIGHT FIXTURE PLACEMENT TO BE COORDINATED IN FIELD WITH OTHER TRADES
  - STRUCTURAL LAYOUT AND SIZES ARE ASSUMED AND SHOULD BE FIELD VERIFIED.
  - FINAL ROOF HATCH & LADDER LOCATION TO BE VERIFIED IN FIELD WITH MECH. & ELEC. TRADES.

**KEY PLAN**  
SCALE: 1/64" = 1'-0"



MATERIAL STRENGTHS AND STRUCTURAL NOTES

- MISCELLANEOUS
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, INTERFERENCES AND CONDITIONS PRIOR TO STARTING FABRICATION OR CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
  - STRUCTURAL DESIGN LOAD DATA:  
ROOF LOAD:  
ROOF/SNOW LOAD: PG = 25 PSF L.L.  
GROUND SNOW LOAD: PF = 30 PSF L.L.  
FLAT ROOF SNOW LOAD: 15 PSF.  
ROOF DEAD LOAD: CE = 0.7  
SNOW EXPOSURE FACTOR: I = 1.0  
SNOW LOAD IMPORTANCE FACTOR:  
WIND LOAD:  
BASIC WIND SPEED: 115 MPH  
WIND LOAD IMPORTANCE FACTOR: I = 1.0  
WIND EXPOSURE: B  
SEISMIC IMPORTANCE: 1
  - ROOFING SHALL BE MINIMUM 15# FELT WITH MINIMUM 235#/SQ. CLASS 'A' SHINGLES AND GALVANIZED NAILS. ALL EAVES TO HAVE ICE-GUARD BARRIER FROM EAVE TO MINIMUM 2 FEET INSIDE WARM/INTERIOR SIDE OF WALL, MEASURED HORIZONTALLY.
  - SUBMIT (4) SETS (OR 1 SET ELECTRONIC) OF SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

- CONCRETE
- CONFORM TO LATEST EDITION OF FOLLOWING STANDARDS:  
STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE, ACI 301.  
COLD WEATHER CONCRETING, ACI 308R.  
HOT WEATHER CONCRETING, ACI 305R.  
DETAILS AND DETAILING OF CONCRETE REINFORCEMENT, ACI 315.  
GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION, ACI 302.1R.
  - PLACING REINFORCING BARS, CRSI.  
CONCRETE COMPRESSIVE STRENGTH, UNLESS INDICATED:  
GENERAL USE: 3,000 PSI  
SLAB-ON-GRADE: 3,500 PSI  
COLUMNS: 4,000 PSI  
CONCRETE EXPOSED TO WEATHER SHALL HAVE 4% - 6% AIR ENTRAINED.
  - REINFORCEMENT:  
BARS: ASTM A615, GRADE 60.  
WELDED WIRE FABRIC (WWF): ASTM A165.  
SLABS ON GRADE OR SLABS ON JOIST:  
CLEAR CONCRETE COVER ON REINFORCEMENT UNLESS NOTED:  
CONCRETE DEPOSITED AGAINST GROUND:  
FORMED SURFACES EXPOSED TO WEATHER OR EARTH: 3"  
1-1/2" FOR #5 & SMALLER  
2" FOR #6 BARS & LARGER
  - CHAMFER EXPOSED EDGES 3/4" X 45 DEGREES.

- WOOD
- ALL WOOD MATERIALS INCLUDING FRAMING SHALL BE SIZED, BRACED, ANCHORED, ASSEMBLED, ETC. IN ACCORDANCE WITH THE REQUIREMENTS OF THE MICHIGAN BUILDING CODE. RAFTER/JOISTS SHALL BE 1000 PSI BENDING, KILN DRIED, #2 GRADE OR BETTER. STUDS SHALL BE STUD GRADE. ALL PLATES ON CONCRETE OR WITHIN 6" OF EXTERIOR GRADE SHALL BE TREATED. ALL WOOD EXPOSED TO EXTERIOR ELEMENTS SHALL BE TREATED UNLESS NOTED OTHERWISE.
  - ROOF SHEATHING SHALL BE 5/8" THICK SQUARE EDGE CDX PLYWOOD OR 5/8" OSB BOARD (ORIENTED STRAND BOARD). EXTERIOR WALL SHEATHING TO BE EITHER 1/2" CDX PLYWOOD OR 7/16" OSB BOARD (ORIENTED STRAND BOARD) WITH SQUARE EDGE.
  - ANCHORS FOR FRAMING SHALL BE PER MICHIGAN BUILDING CODE REQUIREMENTS FOR PARTICULAR APPLICATION, AS WELL AS RECOMMENDED BY THE LUMBER MANUFACTURER AND AMERICAN PLYWOOD ASSOCIATION. SCREWS FOR INTERIOR WOOD SUB-FLOORING SHALL BE TEMPERED PHILLIPS HEAD, SELF-TAPPING DECK SCREWS. METAL SUPPORTS/FASTENERS AND ANCHORS, INCLUDING TRUSSES AND FASTENERS THAT COME IN CONTACT WITH THE TREATED WOOD SHALL BE CORROSION RESISTANT SUCH AS STAINLESS STEEL, EPOXY COATED STEEL AND AS APPROVED BY THE TREATED WOOD MANUFACTURER. MANUFACTURERS FOR HANGERS, BRACKETS, CLIPS, ETC. SHALL BE SIMPSON, KANT-SAG OR APPROVED EQUAL. THE FOLLOWING MODEL NUMBERS REFER TO SIMPSON:  
TRUSSES/RAFTERS TO WALL = AS DIRECTED BY TRUSS MFR. - OR - H2.5T, 18 GA.  
COLUMN TO FOOTING = EMBED IN CONCRETE #EPB66 - 12" - HDG. SET 1/2" ABOVE CONCRETE.  
JOISTS TO BEAM PLATE = TWISTED STRAP ANCHOR #H 2.5A - 18 GA.  
JOIST TOP FLANGE HANGER = AS DIRECTED BY JOIST MFR. - OR - #ITS X SIZE OF JOIST, 18 GA.  
POST CAP = #BC6  
CORNER POST CAP = LCE4
  - EXTERIOR ANCHORS - BOLTS AND SCREWS FOR ANCHORING TREATED FRAMING TO POSTS SHALL BE STAINLESS OR EPOXY COATED STEEL 1/2" DIAMETER MINIMUM THRU BOLTS AND NUTS WITH WASHERS BOTH SIDES -H- PRE-DRILL MEMBERS AS REQUIRED. TO ELIMINATE SPLITTING OF WOOD.
  - ENGINEERED WOOD STRUCTURAL COMPONENTS SHALL BE AS ENGINEERED AND MANUFACTURED BY THE SAME COMPANY THROUGHOUT PROJECT AND MEET OR EXCEED ALL APPLICABLE CODE REQUIREMENTS AND DESIGN LOADS/CONDITIONS AS HEREIN SPECIFIED. FLOOR AND CEILING JOISTS TO BE AS MANUFACTURED BY TRUS-JOIST MACMILLAN, REDBUILT, NORDIC JOISTS, OR APPROVED EQUAL AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. FINAL MEMBER DESIGN AS PROVIDED BY MFR. / STRUCTURAL DESIGNER FOR REVIEW. TYPICAL OF ALL L.V.L. MEMBERS; E = 2.0 MINIMUM OF TWO BOLTS PER BOARD WIDTH PER POST. DECKING, RAILINGS, PICKETS AND ALL OTHER MEMBERS SHALL BE ANCHORED WITH APPROVED STAINLESS OR EPOXY COATED STEEL DECK SCREWS - MINIMUM OF (2) SCREWS PER BOARD WIDTH PER JOISTS. SCREWS SHALL PENETRATE INTO SUBSTRATE MINIMUM OF 1" TO 1-1/4" DEPT

- STRUCTURAL STEEL
- CONFORM TO LATEST EDITION OF FOLLOWING STANDARDS:  
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, AISC.  
SPECIFICATION FOR ALLOWABLE STRESS DESIGN OF SINGLE-ANGLE MEMBERS, AISC.  
SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, RCSC.  
CODE OF STANDARD PRACTICE, AISC.
  - STRUCTURAL STEEL MATERIALS:  
WIDE FLANGE SHAPES, ASTM A992  
ANGLES, CHANNELS, PLATES AND BARS: ASTM A36  
STRUCTURAL TUBING: ASTM A500, GRADE B.  
STRUCTURAL PIPE: ASTM A53, GRADE B, TYPE E OR S.  
HIGH STRENGTH BOLTS: ASTM A325  
ANCHOR BOLTS: ASTM A307 OR A36
  - STEEL FABRICATOR TO DESIGN BEAM CONNECTIONS FOR REACTIONS INDICATED, OR WHERE REACTIONS ARE NOT INDICATED, FOR ONE-HALF OF TOTAL UNIFORM LOAD CAPACITY OF A SIMPLE BEAM FOR GIVEN SPAN AS SPECIFIED IN LATEST EDITION OF AISC MANUAL OF STEEL CONSTRUCTION. DESIGN CONNECTIONS OF BRACING MEMBERS FOR MEMBER FORCES INDICATED, OR WHERE MEMBER FORCES ARE NOT INDICATED, FOR THE FULL TENSILE AND COMPRESSIVE CAPACITIES OF THE BRACING MEMBER.
  - MAKE BOLTED FIELD CONNECTIONS WITH HIGH STRENGTH BOLTS, UNLESS NOTED OTHERWISE. MAKE SHOP CONNECTIONS BY WELDING OR HIGH STRENGTH BOLTING.
  - UNLESS INDICATED, CLEAN STRUCTURAL STEEL IN ACCORDANCE WITH SSPC SP-1 AND SHOP PRIME. PRIMER SHALL BE COMPATIBLE WITH SPECIFIED FINISHES. DO NOT PRIME TOP FLANGE SURFACE OF COMPOSITE BEAMS OR SURFACES, WHICH RECEIVE SPRAY-ON FIREPROOFING.
  - GALVANIZING SHALL CONFORM TO ASTM A123. GALVANIZING OF BOLTS, NUTS, AND OTHER HARDWARE SHALL CONFORM TO ASTM A153.

LINTEL SCHEDULE				
MASONRY OPENING	STRUCTURAL STEEL MEMBER	BLOCK CORE REINFORCING	BEARING EACH END	
UP TO 4'-0"	1-L 3-1/2"x3-1/2"x5/16"	1-#5	4"	
4'-0" TO 6'-0"	1-L 5X3-1/2"x5/16" LLV	1-#5	6"	
6'-0" TO 8'-6"	1-L 6X3-1/2" X 3/8" LLV	1-#6	8"	

- A. UNLESS OTHERWISE NOTED PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS ACCORDING TO THIS SCHEDULE.  
B. LINTEL/REINFORCING ARE SCHEDULED FOR EACH 4" OF WALL THICKNESS.

ROOM FINISH SCHEDULE

NO.	ROOM NAME	MATERIAL							FINISH							COMMENTS
		FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CL'G.	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CL'G.	
122	BOILER ROOM	XC	-	XC	XC	XC	XC	-	EPOXY	-	PT	PT	PT	PT	-	

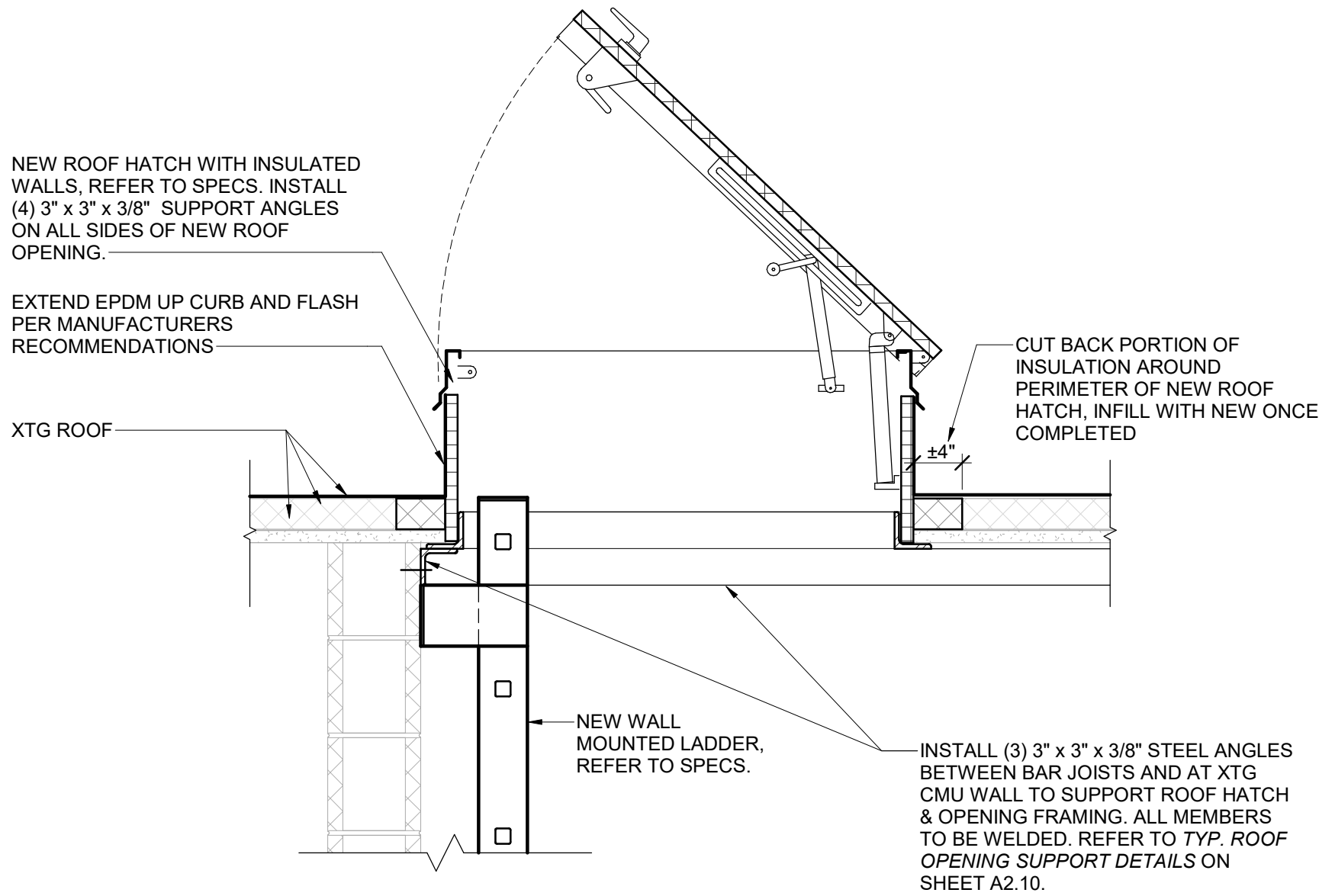
MATERIAL FINISH SCHEDULE

MATERIAL	TAG	MANUFACTURER	STYLE	COLOR	MODEL NO.	SIZE	COMMENTS
PAINT	EPOXY	EUCLID CHEMICAL CO.	-	GRAY	-	-	FLOOR FINISH
	PT	SHERWIN WILLIAMS	-	SITE WHITE	SW7070	-	WALL PAINT

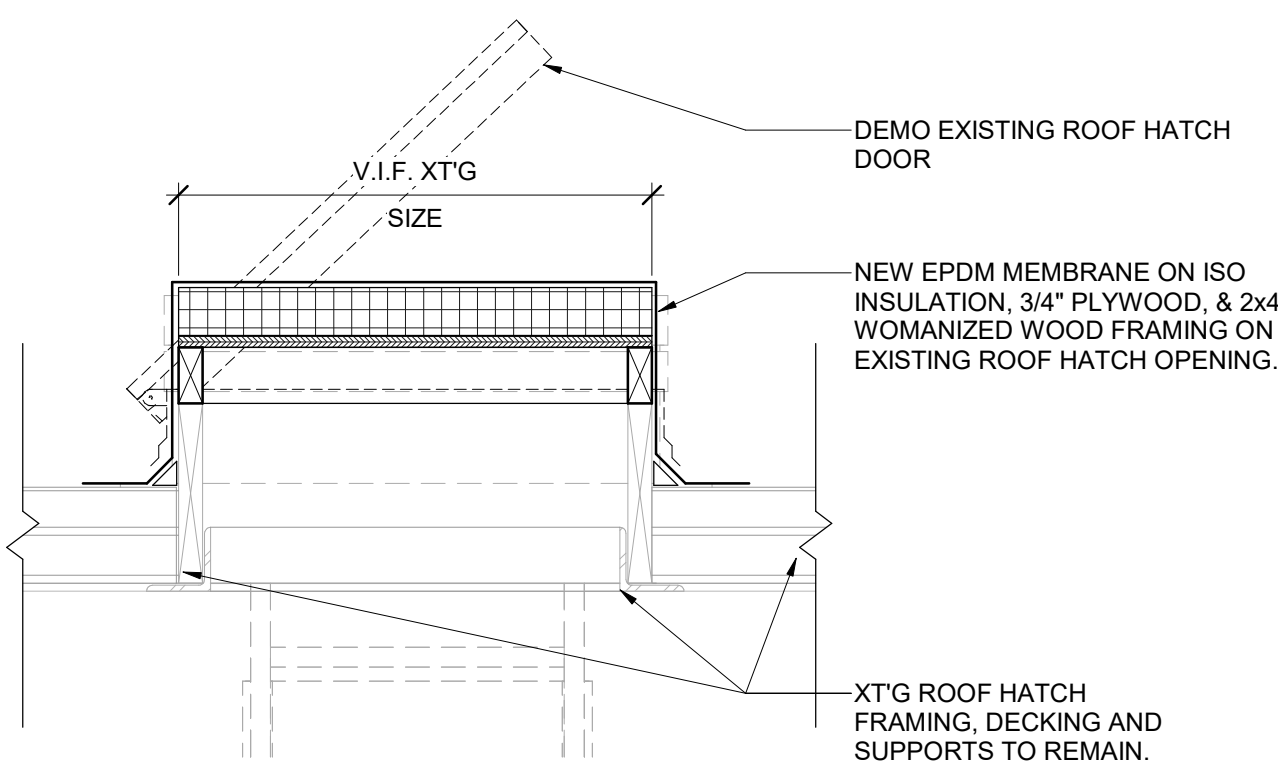
NOTE: THIS SCHEDULE PROVIDES ALL NEW MATERIALS / FINISHES FOR BASES OF DESIGN. REFER TO SPECIFICATIONS TO ADDITIONAL INFORMATION.

DOOR SCHEDULE

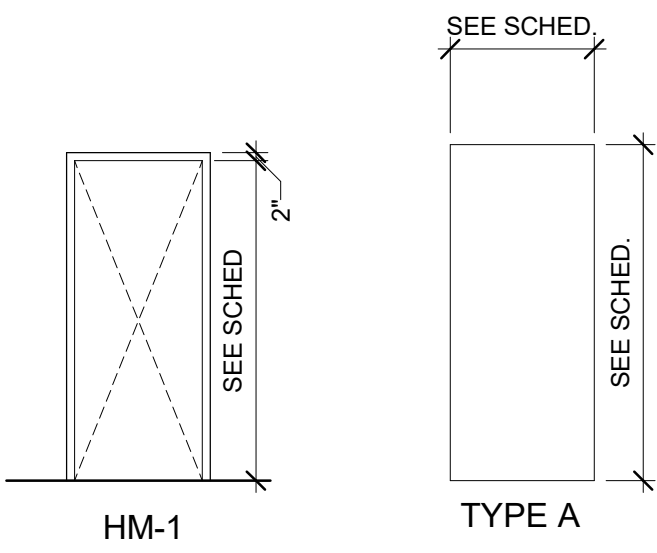
#	ROOM		SIZE	PANEL		FRAME		FIRE RATING	COMMENTS
	FROM	TO		TYPE	MAT'L	TYPE	MAT'L		
122A	BOILER ROOM #122	JANITOR #120	3'-0" x 6'-8" x 2"	A	HM	HM-1	HM	4"	
122b		BOILER ROOM #122	3'-0" x 7'-0" x 2"	EXIST.	EXIST.	EXIST.	EXIST.	45 MIN.	HARDWARE ONLY



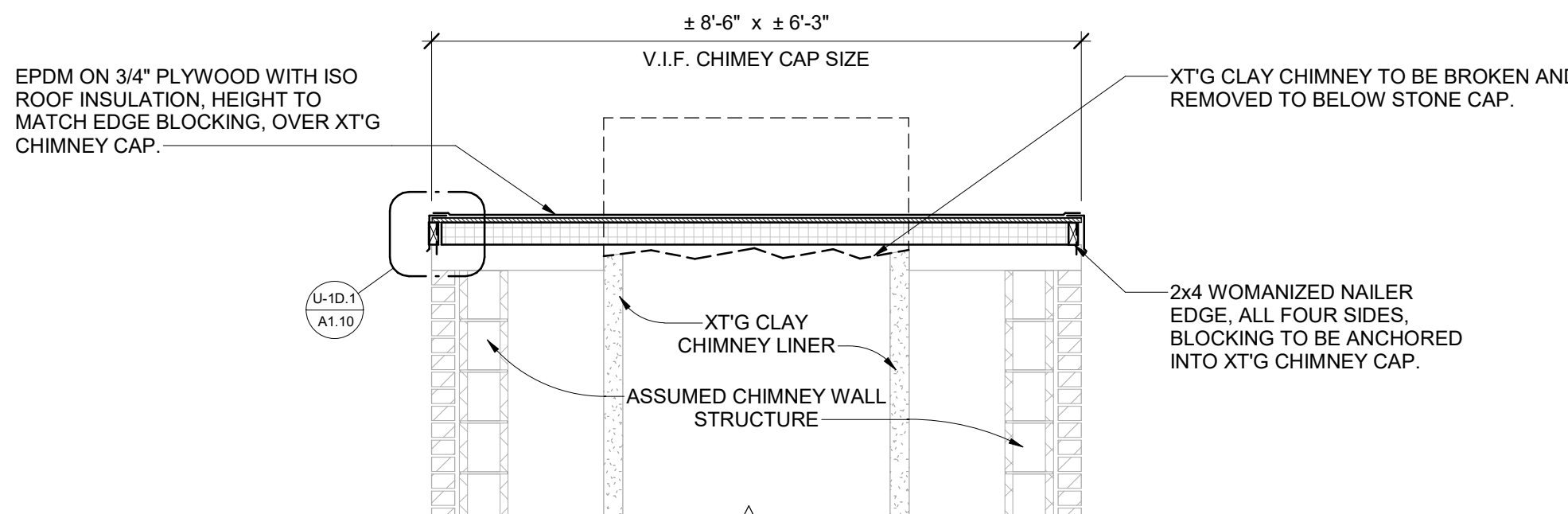
8 ROOF HATCH SECTION  
SCALE: 1" = 1'-0"



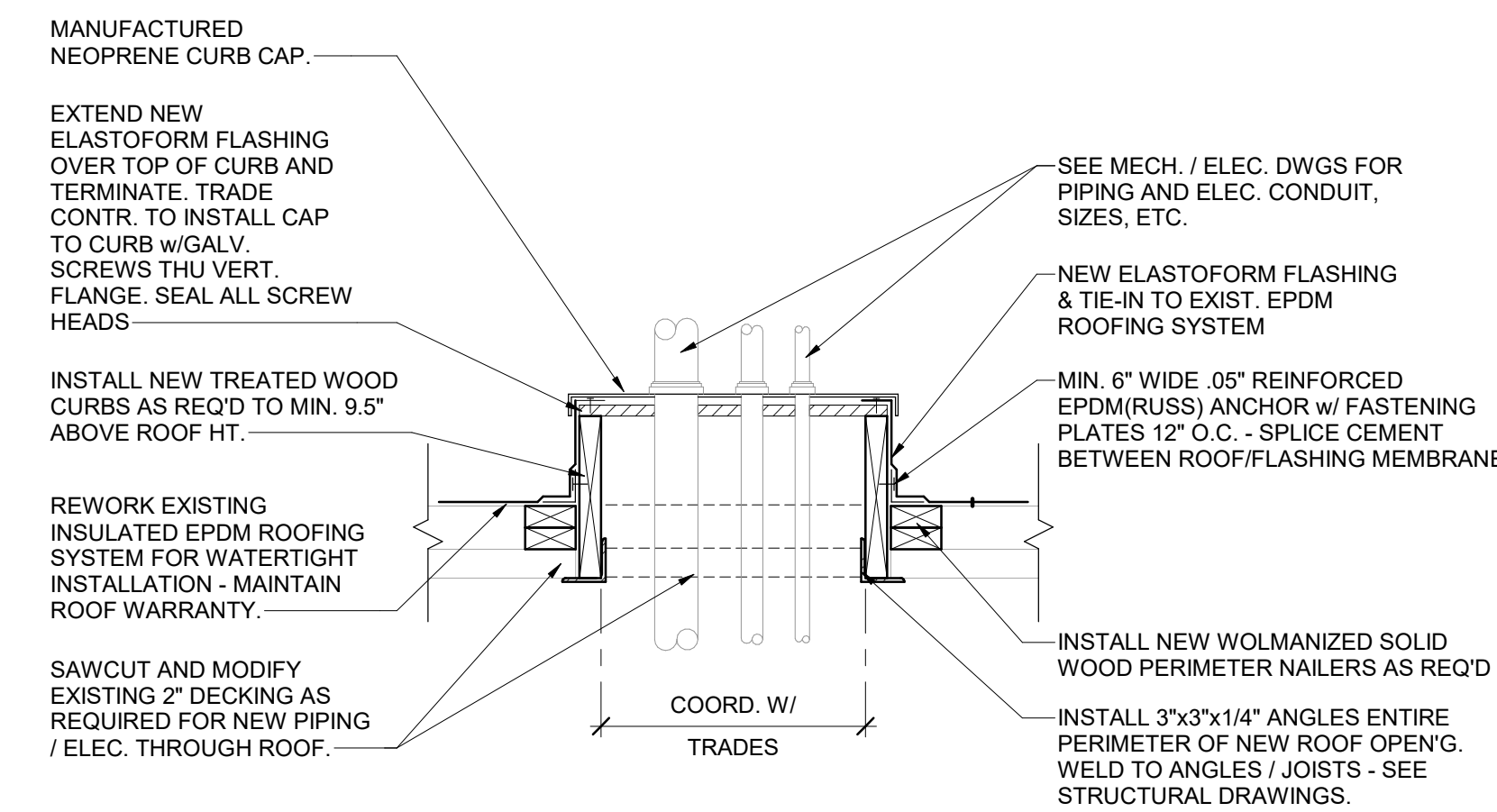
7 DEMO'D ROOF HATCH CAP  
SCALE: 1" = 1'-0"



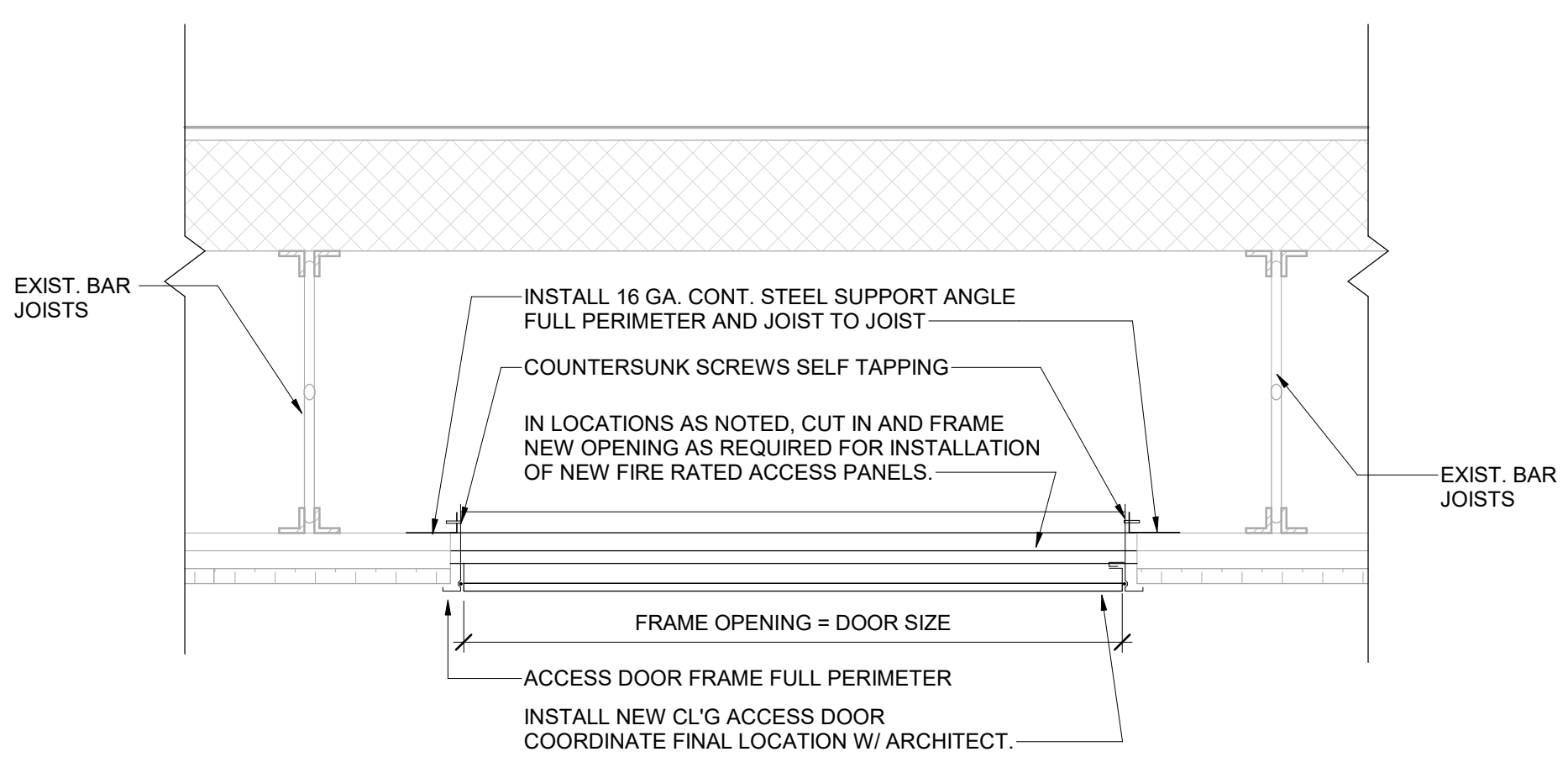
DOOR & FRAME ELEV.  
SCALE: 1/4" = 1'-0"



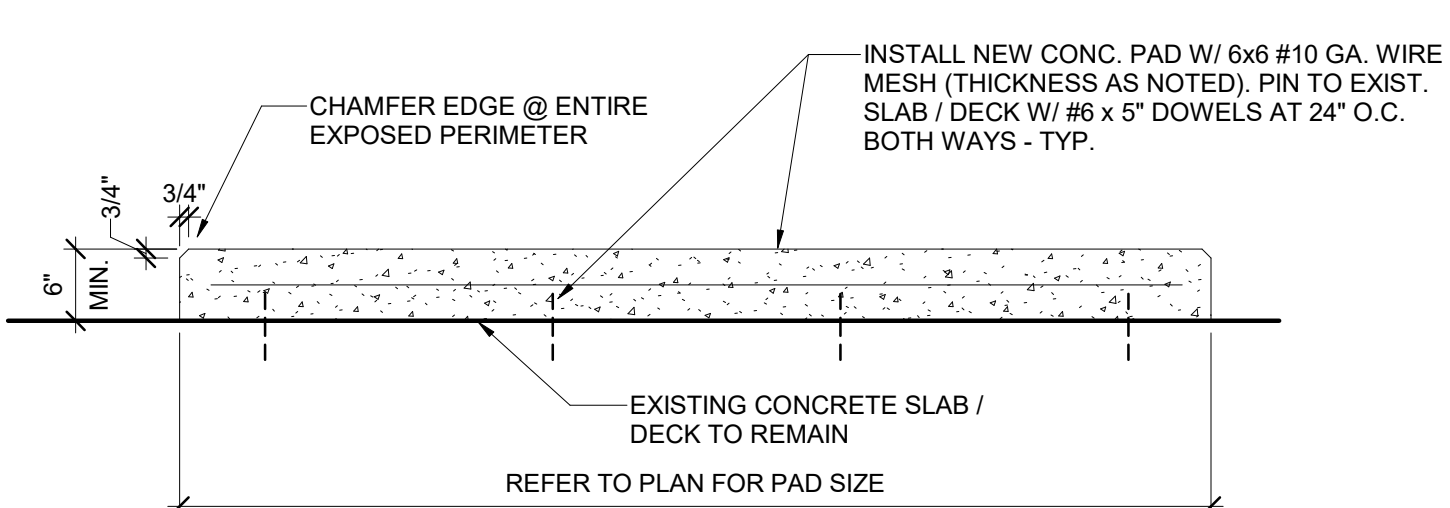
6 CHIMNEY CAP DETAIL  
SCALE: 1/2" = 1'-0"



5 TYP. ROOF PIPING / ELEC. CURB DETAIL  
SCALE: 1" = 1'-0"



4 TYP. CEILING ACCESS PANEL  
SCALE: 1 1/2" = 1'-0"



3 TYP. CONCRETE PAD  
SCALE: 3/4" = 1'-0"

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1110 WEST FRONT STREET  
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DATE	DESCRIPTION
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1135 RIVERVIEW AVENUE, MONROE, MICHIGAN 48162  
**MONROE PUBLIC SCHOOLS**  
1275 NORTH MACOMBE STREET, MONROE, MICHIGAN 48162

JOB #	26101
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ARCHITECTURAL  
DETAILS

**A2.00**



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PIPE MATERIAL CONSTRUCTION & INSULATION SCHEDULE (REFER TO SPECIFICATIONS SECTION 232113, 232114, & 230719 FOR ADDITIONAL REQUIREMENTS.)					
SERVICE DESCRIPTIONS	ABBREVIATION	PIPING MATERIAL	MEANS OF CONNECT	FITTINGS	INSULATION
HEATING HOT WATER	HWS & HWR	2" & SMALLER: TYPE K, L OR M HARD COPPER	SOLDER *	WROUGHT	PIPE LESS THAN 1 1/2" INSULATE WITH A MINIMUM 1 1/2" FIBERGLASS PIPE 1 1/2" AND LARGER INSULATE WITH 2" FIBERGLASS
		2" & SMALLER: SCHEDULE 40 BLACK STEEL, ASTM A53-S-A-ERW	THREAD & * COUPLE OR WELD	150 PSIG	
		2-1/2" & LARGER: SCHEDULE 40 BLACK STEEL, ASTM A53-S-A-ERW	WELD *	SCHEDULE 40	
		2-1/2" TO 4" TYP L OR M HARD COPPER	SOLDER *	WROUGHT	
CONDENSATE DRAIN LINES	CDL	2" & SMALLER: TYPE L HARD COPPER	THREAD & * COUPLE	WROUGHT	3/4" FIBERGLASS
* PROPRESS FITTINGS OR MECHANICAL FITTINGS ARE NOT ACCEPTABLE.					

DUCTWORK MATERIAL CONSTRUCTION & INSULATION SCHEDULE						( REFER TO SPECIFICATIONS SECTION 233100 & 230713 FOR ADDITIONAL REQUIREMENTS.)
SYSTEM EQUIPMENT	DUCTWORK SERVICE	DUCTWORK PRESSURE CLASS (W.C.)	SMACNA SEAL CLASS	DUCTWORK CONSTRUCTION	INSULATION	REMARKS
GENERAL EXHAUST	EXHAUST AIR	+/- 2.0	C	RECTANGULAR DUCT: GALVANIZED SHEET METAL	USE 2 INCH FLEXIBLE FIBERGLASS WRAP INSULATION.	1 THRU 4
SUPPLY FAN	OUTSIDE AIR	+/- 2.0	A	RECTANGULAR DUCTWORK: GALVANIZED SHEET METAL RIGID ROUND BRANCHES (CONCEALED): LONGITUDINAL OR SPIRAL SEAMS. FLEXIBLE BRANCHES: <b>NOT PERMITTED</b>	USE 2 INCH RIGID FIBERGLASS BOARD INSULATION WITH A MINIMUM INSTALLED R-VALUE OF 6	1 THRU 4
REMARKS: 1. DUCTWORK CONSTRUCTION, INCLUDING SHEET METAL GAUGES AND SEAM CONSTRUCTION METHODS, SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS. 2. DUCTWORK ELBOWS, TRANSITIONS, ETC. SHALL BE FABRICATED IN ACCORDANCE WITH DETAIL "J" ON SHEET M1.02. 3. REFER TO SPECIFICATION MANUAL FOR ADDITIONAL DUCTWORK CONSTRUCTION REQUIREMENTS. 4. ALL DUCT SIZES INDICATED ON DRAWINGS REPRESENT INTERNAL NET DIMENSIONS. DUCTWORK SIZE SHALL BE INCREASED AS REQUIRED TO ACCOMMODATE INTERNAL SOUND LINING, ETC.						

PUMP SCHEDULE											(REFER TO SPECIFICATIONS SECTION 232123) FOR ADDITIONAL REQUIREMENTS.				
TAG #	LOCATION		SERVICE	TYPE	FLUID	GPM	HEAD PRESS. (FT.)	IMPELLER DIAMETER (IN.)	INLET SIZE (IN.)	OUTLET SIZE (IN.)	MOTOR DATA		BELL & COSSETT MODEL	REMARKS	
	DWG	ROOM									HP	RPM			VOLT/PH
HWD-HWP-1	M3.01	BOILER RM	HEATING WATER	END SUCTION	WATER	120	60	9.0	2	1 1/2	5	1,800	230/3	E-1510-1.5BC	1 THRU 5
HWD-HWP-2	M3.01	BOILER RM	HEATING WATER	END SUCTION	WATER	120	60	9.0	2	1 1/2	5	1,800	230/3	E-1510-1.5BC	1 THRU 5
HWD-HWS-3	M3.01	BOILER RM	DWH INDIRECT TANK	INLINE	WATER	15	10	3.375	1-1/4	1-1/4	1/4	1,800	115/1	E-90-1.25AAB	1, 2, 3 & 6
REMARKS: 1. PROVIDE TAPPED CONNECTIONS IN FLANGES FOR INSTALLATION OF PRESSURE GAUGES. 2. PROVIDE GUARD OVER EXPOSED ROTATING COUPLINGS. 3. PUMP SHALL NOT OVERLOAD MOTOR AT ANY POINT ON HEAD CAPACITY CURVE. 4. FURNISH PUMP WITH END SUCTION DIFFUSER. 5. PROVIDE PUMP WITH INVERTER DUTY MOTOR. 6. PUMP SHALL BE INSTALLED AS PART OF BASE BID ONLY. PUMP SHALL BE OMITTED FROM SCOPE OF WORK IF ALTERNATE HWD-M1 IS ACCEPTED.															

HOT WATER BOILER SCHEDULE (REFER TO SPECIFICATIONS SECTION 235216 FOR ADDITIONAL REQUIREMENTS.)																	
TAG #	LOCATION		THERMAL EFFICIENCY	FUEL	GAS PIPE CONN. SIZE		GAS PRESSURE		MBH INPUT	MBH OUTPUT	TURN DOWN	EWT (°F)	LWT (°F)	GPM	FLUID TYPE	MAX WPD (FT)	WATER VOLUME (GAL)
	DWG	ROOM			MIN.	MAX.	MIN.	MAX.									
HWD-B-1	M3.01	BOILER ROOM	97.2	NATURAL GAS	1"	4"	14"		725	705	7:1	160	180	75	WATER	4.9	17
HWD-B-2	M3.01	BOILER ROOM	97.2	NATURAL GAS	1"	4"	14"		725	705	7:1	160	180	75	WATER	4.9	17
REMARKS: 1. FURNISH BOILER WITH MODULATING FIRING CONTROL, STAINLESS STEEL BURNERS, DIAGNOSTIC CONTROL PANEL, LOW WATER CUT-OFF, FLOW SWITCH, OUTDOOR RESET, MANUFACTURER-APPROVED TERMINATIONS FOR ROOFTOP COMBUSTION AIR AND VENT PIPING, AND CONDENSATE NEUTRALIZATION KIT. 2. FURNISH BOILER WITH THE PIPING INSTALLATION PRHOEDURES ILLUSTRATED BY THE FLOW DIAGRAM ON DRAWING M1.03. 3. FURNISH BOILER WITH BACNET MSTP NETWORK CARD; COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR.																	

ELECTRIC UNIT HEATER SCHEDULE													(REFER TO SPECIFICATIONS SECTION 238200 FOR ADDITIONAL REQUIREMENTS.)
TAG #	LOCATION		TYPE	MOUNTING	CFM	TEMP. RISE (°F)	HEATER kW	HEATER AMPS	VOLTS/ PHASE	T-STAT MTG	APPROX. WEIGHT (LBS.)	MAKE/ MODEL	REMARKS
	DWG	ROOM											
HWD-UH-1	M3.01	BOILER ROOM	HORIZONTAL	CEILING	400	40	5	12.3	240/3	INTEGRAL	60	MARKEL HF2B5105N	1, 2, 3, 4 & 5
REMARKS: 1. HEATER SHALL BE FURNISHED WITH UL LISTINGS. 2. FURNISH HEATER WITH AUTOMATIC HIGH-LIMIT CUTOUT OVERLOAD PROTECTION AND AUTOMATIC RESET. 3. FURNISH HEATER WITH INTEGRAL DISCONNECT SWITCH. 4. FURNISH UNIT WITH CEILING MOUNTED BRACKET. 5. FURNISH HEATER WITH ADJUSTABLE DIFFUSER.													

FAN SCHEDULE															(REFER TO SPECIFICATIONS SECTION 233423) FOR ADDITIONAL REQUIREMENTS.			
TAG #	DWG #	AREA SERVED	SERVICE	CFM	ESP (IN. W.C.)	FAN RPM	BHP	DRIVE TYPE	DISC'T BY FAN MANF'T	BIRD SCREEN BY FAN MANF'T	BACK DRAFT DMVR BY FAN MANF'T	MAX. SOUND LEVEL (SONES)	FAN ELECT DATA		MEANS OF CONTROL	APPROX. WEIGHT (LBS)	GREENHECK MODEL	REMARKS:
													WATTS	VOLTS/ PHASE				
HWD-SF-1	M3.01	BOILER ROOM	VENTILATION	550	0.3	714	0.07	DIRECT	YES	YES	YES	2.0	136	115/1	A	75	CSP-A1050	1 THRU 4
MEANS OF CONTROL: FAN SHALL SEQUENCE IN CONJUNCTION WITH... A ...WALL MOUNTED THERMOSTAT (T-STAT & CONTROL WIRING BY TEMPERATURE CONTROL CONTRACTOR; POWER WIRING BY ELECTRICAL CONTRACTOR)																		
REMARKS: 1. FURNISH FAN WITH ROOF CURB WITH DAMPER TRAY. 2. FURNISH FAN WITH MOTORIZED BACKDRAFT DAMPER. 3. FURNISH FAN MOTOR WITH THERMAL OVERLOADS. 4. FURNISH FAN WITH VARIGREEN, ECM MOTOR AND VARIGREEN HOA CONTROLLER. COORDINATE CONTROLS WITH T.C.C.																		

LOUVER SCHEDULE													(REFER TO SPECIFICATIONS SECTION 233700) FOR ADDITIONAL REQUIREMENTS.	
TAG #	DWG #	AREA SERVED	SERVICE	OVERALL SIZE ("W"x"H)	CFM	MAX. VELOCITY (FPM)	MIN. FREE AREA (SQ. FT.)	MAX PRESS. DROP (IN. W.C.)	DEPTH (IN.)	BLADE ANGLE	BLADE STYLE	FRAME/BLADE THICKNESS (IN.)	APPROX. MOUNTING ELEVATION TO BOTTOM (A.F.F.)	REMARKS
HWD-L-1	M3.01	BOILER ROOM	INTAKE/ EXHAUST	74x18	---	---	3.8	0.05	4	45	STATIONARY DRAINABLE	0.081/0.081	7'-4"	1, 2, 3 & 4
REMARKS: 1. BASIS OF DESIGN -- 4" GREENHECK MODEL 403. 2. FURNISH LOUVER WITH BIRD SCREEN INSTALLED ON INTERIOR SIDE OF LOUVER. 3. FURNISH LOUVER WITH 70% KYNAR FINISH. COLOR SHALL BE SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD COLOR CHART. 4. M.C. SHALL MEASURE EXISTING OPENING PRIOR TO ORDERING LOUVER.														

GENERAL PROJECT NOTES	
1.01. <b>CONTRACT DRAWINGS:</b> IN GENERAL, DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED AS A GUIDE TO THE CONTRACTOR, BUT DO NOT NECESSARILY SHOW ALL DETAILS, OFFSETS, ETC. ALL DRAWINGS SHALL BE THOROUGHLY INSPECTED BY THE CONTRACTOR. THE CONTRACTOR'S WORK SHALL CONFORM TO THE INFORMATION CONTAINED IN THIS SPECIFICATION AND/OR AS INDICATED IN THE LATEST REVISION OF THE DRAWINGS REFERRED TO THEREIN. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER REGARDING ALL QUESTIONS, UPON WHICH HE MAY BE IN DOUBT, BEFORE PROCEEDING WITH FABRICATION OF PARTS AFFECTED. AT HIS OWN EXPENSE, THE CONTRACTOR SHALL PREPARE ALL ADDITIONAL DETAIL OR FIELD INSTALLATION DRAWINGS NECESSARY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS INDICATED ON THE ENGINEER'S LAYOUT DRAWINGS AND DETERMINE IF ANY CHANGES ARE REQUIRED IN CONDUITS, PIPING RUNS, DRAINS, ETC., TO AVOID INTERFERENCE. MAJOR CHANGES SHALL NOT BE MADE WITHOUT THE APPROVAL OF THE ENGINEER. WHILE THE DRAWINGS SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE, THE CONTRACTOR HAS THE RIGHT TO VARY THE RUN OF CONDUITS, PIPING AND/OR DUCTS DURING PROGRESS OF THE WORK AS MAY BE FOUND NECESSARY OR DESIRABLE TO AVOID INTERFERENCES. MAJOR REVISIONS SHALL BE VERIFIED WITH THE ENGINEER.	
1.02. <b>VERIFICATION:</b> A. BEFORE RUNNING ANY CONDUITS, DUCTS, PIPING, ETC., WITHIN THE BUILDING, THIS CONTRACTOR SHALL ASSURE HIMSELF THAT THESE MATERIALS CAN BE INSTALLED AS CONTEMPLATED, WITHOUT TRAPPING OR INTERFERING WITH COLUMNS, BEAMS, PIPING, FIXTURES, ETC. ANY NECESSARY MAJOR DEVIATION SHALL BE REFERRED TO THE ENGINEER FOR ADJUSTMENT BEFORE MATERIALS ARE INSTALLED. OF NECESSITY, OPENINGS, SUPPORTING STEEL, FIELD BUILT CURBS, ELECTRICAL DATA, SPACE REQUIREMENTS, ETC., WERE DESIGNED AROUND SPECIFIC PARAMETERS. WHEN THE CONTRACTOR DETERMINES THE MAKE OF EQUIPMENT TO BE PROVIDED FOR THE JOB, IT SHALL BE HIS RESPONSIBILITY TO VERIFY AND COORDINATE UNIT DIMENSIONS WITH THE GENERAL CONTRACTOR AND ALL OTHER INTERESTED CONTRACTORS ON THE JOB. IT SHALL ALSO BECOME THE CONTRACTOR'S RESPONSIBILITY TO CHANGE AS NECESSARY, THROUGH THE ENGINEER, ALL REQUIRED DIMENSIONS SO THAT OPENINGS, SUPPORTING STEEL, CURBS, ELECTRICAL DATA, ETC. WILL FIT THE EQUIPMENT SUPPLIED. ANY ADDITIONAL COST WILL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR. IN ADDITION, ELECTRICAL POWER, INTERLOCK AND CONTROL DIAGRAMS AND PIPING ARRANGEMENTS WERE DESIGNED AROUND ONE SPECIFIC MANUFACTURER. IF ADDITIONAL WIRING, PIPING CONTROLS, ETC., ARE REQUIRED FOR OTHER EQUIPMENT, THIS CONTRACTOR SHALL INCLUDE THE COST OF THE SAME IN HIS PRICE. B. ALL MEASUREMENTS, THE EXACT DETERMINATION OF RELATIVE ELEVATIONS OR LHOATIONS, THE ASCERTAINING OF ACCURACY OF ALL GIVEN ELEVATIONS AND DIMENSIONS AND THE ASCERTAINING OF ALL NECESSARY ADDITIONAL INFORMATION TO INSURE THE PROPER FIT AND COORDINATION OF ALL CONDUIT EQUIPMENT, DUCTS, AND PIPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.	
1.03. <b>GUARANTEES:</b> THE CONTRACTOR GUARANTEES, BY HIS ACCEPTANCE OF THE CONTRACT, THAT ALL WORK WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND/OR MATERIALS, FOR A PERIOD OF ONE YEAR FOLLOWING PROJECT COMPLETION UNLESS NOTED OTHERWISE, AND THAT ALL APPARATUS WILL DEVELOP CAPACITIES AND CHARACTERISTICS SPECIFIED. SHOULD ANY DEFECTS IN WORKMANSHIP AND/OR MATERIALS REQUIRE REDESIGN OF ANY PART OF THE ELECTRICAL, MECHANICAL, PLUMBING OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREOF SHALL, WITH THE APPROVAL OF THE ARCHITECT, BE PREPARED BY THE CONTRACTOR AT HIS OWN EXPENSE. WHERE SUCH APPROVED DEVIATION REQUIRES A DIFFERENT QUANTITY AND ARRANGEMENT OF DUCTWORK, PIPING, WIRING, CONDUIT AND/OR EQUIPMENT FROM THAT SPECIFIED OR DETAILED ON THE DRAWINGS, WITH THE APPROVAL OF THE ARCHITECT, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUCH MATERIALS AND/OR EQUIPMENT REQUIRED BY THE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.	
1.04. <b>SUBMITTALS:</b> AFTER RECEIVING APPROVAL OF EQUIPMENT MANUFACTURERS, AND PRIOR TO DELIVERY OF ANY MATERIAL TO THE JOB SITE AND SUFFICIENTLY IN ADVANCE OF THE REQUIREMENTS TO ALLOW ARCHITECT AMPLE TIME FOR CHECKING, SUBMIT FOR REVIEW DETAILED DIMENSIONED DRAWINGS AND/OR EQUIPMENT CUT SHEETS SHOWING CONSTRUCTION SIZE, ARRANGEMENT, OPERATING CLEARANCES, ALL SCHEDULED PERFORMANCE CHARACTERISTICS AND CAPACITIES OF MATERIAL AND EQUIPMENT. SHOP DRAWINGS SHALL SHOW THE RATINGS OF ITEMS AND SYSTEMS AND HOW THE COMPONENTS OF ITEMS AND SYSTEMS ARE ASSEMBLED, FUNCTION TOGETHER AND HOW THEY WILL BE INSTALLED ON THE PROJECT. DATA AND SHOP DRAWINGS FOR COMPONENT PARTS OF AN ITEM OR SYSTEM SHALL BE COORDINATED AND SUBMITTED AS A UNIT. SHOP DRAWINGS SHALL CLEARLY HIGHLIGHT, ENCIRCLE, OR OTHERWISE CLEARLY IDENTIFY ALL DEVIATIONS FROM THE CONTRACT DHOUMENTS. PRIOR TO SUBMITTING, CONTRACTOR SHALL THOROUGHLY REVIEW EACH SUBMITTAL AND CHECK FOR COMPLIANCE WITH THE CONTRACT DHOUMENTS, AND MARK EACH SUBMITTAL WITH APPROVAL STAMP TO SHOW THAT SUBMITTALS HAVE BEEN REVIEWED AND APPROVED BY THE CONTRACTOR. FAILURE OF CONTRACTOR TO COMPLY FULLY WITH THIS SECTION WILL RESULT IN REJECTION OF SUBMITTAL. A. APPROVAL STAMP: STAMP EACH SUBMITTAL WITH A UNIFORM, APPROVAL STAMP. STAMP SHALL INCLUDE PROJECT NAME, LHOATION, SPECIFICATION SECTION, NAME OF REVIEWER, DATE OF CONTRACTOR'S APPROVAL, AND STATEMENT CERTIFYING THAT SUBMITTAL HAS BEEN REVIEWED, CHECKED, AND APPROVED FOR COMPLIANCE WITH THE CONTRACT DHOUMENTS.	
1.05. <b>NEW WORK:</b> UNLESS OTHERWISE NOTED, ALL WORK INDICATED THROUGHOUT THESE DRAWINGS SHALL BE CONSIDERED AS NEW WORK AND SHALL BE INCLUDED AS AN INTEGRAL PART OF THIS CONTRACT.	
1.06. <b>DUCTWORK CONSTRUCTION:</b> ALL DUCTWORK SHALL BE CONSTRUCTED FOR THE STATIC PRESSURE CLASSIFICATION INDICATED IN THE "DUCTWORK MATERIAL CONSTRUCTION SCHEDULE." FURNISH TURNING VANES IN ALL SUPPLY AIR RECTANGULAR DUCTWORK ELBOWS AND T-SPLITS (REFER TO APPROPRIATE DETAIL FOR ADDITIONAL REQUIREMENTS). THE GENERAL ROUTING SHALL BE DETERMINED BY THE JOB SITE CONDITIONS AND SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION TRADES.	
1.07. <b>AIR DEVICE LHOATIONS:</b> THE MECHANICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL CEILING PLAN AND THE ELECTRICAL LIGHTING PLAN FOR ALL AIR DEVICE LHOATIONS. THE LHOATIONS INDICATED ON THE HVAC FLOOR PLAN ARE INTENDED FOR GENERAL POSITIONING PURPOSES ONLY.	
1.08. <b>PERMITS AND CODES:</b> CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH PERMITS, TAXES AND INSURANCE. ALL WORK SHALL BE INSTALLED IN COMPLETE CONFORMITY WITH LOCAL CODES AND ORDINANCES AS WELL AS THE FOLLOWING:  1. NFPA 90 2. MBC 2021 3. MMC 2021 4. LOCAL CODES & ORDINANCES 5. ASHRAE 6. ANSI  7. ASTM 8. UL 9. NEC 10. AMCA 11. SMACNA	

CONTRACTOR RESPONSIBILITY MATRIX					
WORK	FURNISHED BY...	INSTALLED BY...	LOW VOLT. WIRING BY...	LINE POWER BY...	REMARKS
TCS LOW VOLTAGE & COMMUNICATION WIRING	T.C.C.	T.C.C.	T.C.C.	NOT APPLICABLE	
TCS CONDUIT & RACEWAYS	T.C.C.	T.C.C.	T.C.C.	NOT APPLICABLE	
TCS CURRENT SWITCHES	T.C.C.	T.C.C.	T.C.C.	T.C.C.	
TCS RELAYS	T.C.C.	T.C.C.	T.C.C.	T.C.C.	
TCS NODES, EQUIPMENT, HOUSINGS, ENCLOSURES & PANELS	T.C.C.	T.C.C.	T.C.C.	NOT APPLICABLE	
PRESSURE DIFFERENTIAL SWITCH	T.C.C.	M.C.	T.C.C.	NOT APPLICABLE	
TCS INTERFACE WITH BOILER CONTROLS	T.C.C.	T.C.C.	T.C.C.	T.C.C.	
BOILER CONTROLS INTERFACE WITH TCS	M.C. VIA BOILER MANUFACTURER	T.C.C.	T.C.C.	T.C.C.	
VARIABLE FREQUENCY DRIVES	T.C.C.	M.C.	T.C.C.	T.C.C.	1
COMPUTER ROOM A/C UNIT FIELD MOUNTED CONTROLS	M.C.	T.C.C.	T.C.C.	T.C.C.	
UNIT HEATER CONTROLS	UNIT MOUNTED BY M.C.; OTHERWISE, T.C.C.	UNIT MOUNTED BY M.C.; OTHERWISE, T.C.C.	T.C.C.	T.C.C.	
DUCT MOUNTED MOTORIZED DAMPERS	T.C.C.	M.C.	T.C.C.	T.C.C.	
MOTORIZED DAMPERS INTEGRAL TO EQUIPMENT	M.C.	T.C.C.	T.C.C.	T.C.C.	
MOTORIZED DAMPER OPERATORS	T.C.C.	T.C.C.	T.C.C.	T.C.C.	
MOTORIZED VALVES & VALVE OPERATORS	T.C.C.	M.C.	T.C.C.	NOT APPLICABLE	
MANUAL VALVES	M.C.	M.C.	NOT APPLICABLE	NOT APPLICABLE	
PIPE INSERTION DEVICES & TAPS INCLUDING THERMOWELLS, FLOW & PRESSURE STATIONS	T.C.C.	M.C.	T.C.C.	T.C.C.	
REMARKS: 1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL LINE-SIDE POWER TO VFD AND LOAD SIDE POWER CONNECTIONS BETWEEN VFD AND ASSOHIATED MOTOR.					
KEY: E.C. ELECTRICAL CONTRACTOR M.C. MECHANICAL CONTRACTOR T.C.C. TEMPERATURE CONTROL SYSTEM CONTRACTOR T.C.C. MFTR. TEMPERATURE CONTROL SYSTEM CONTRACTOR MANUFACTURER T.C.S. TEMPERATURE CONTROL SYSTEM LINE POWER ≥ 110 VOLTS LOW VOLT ≤ 100 VOLTS					

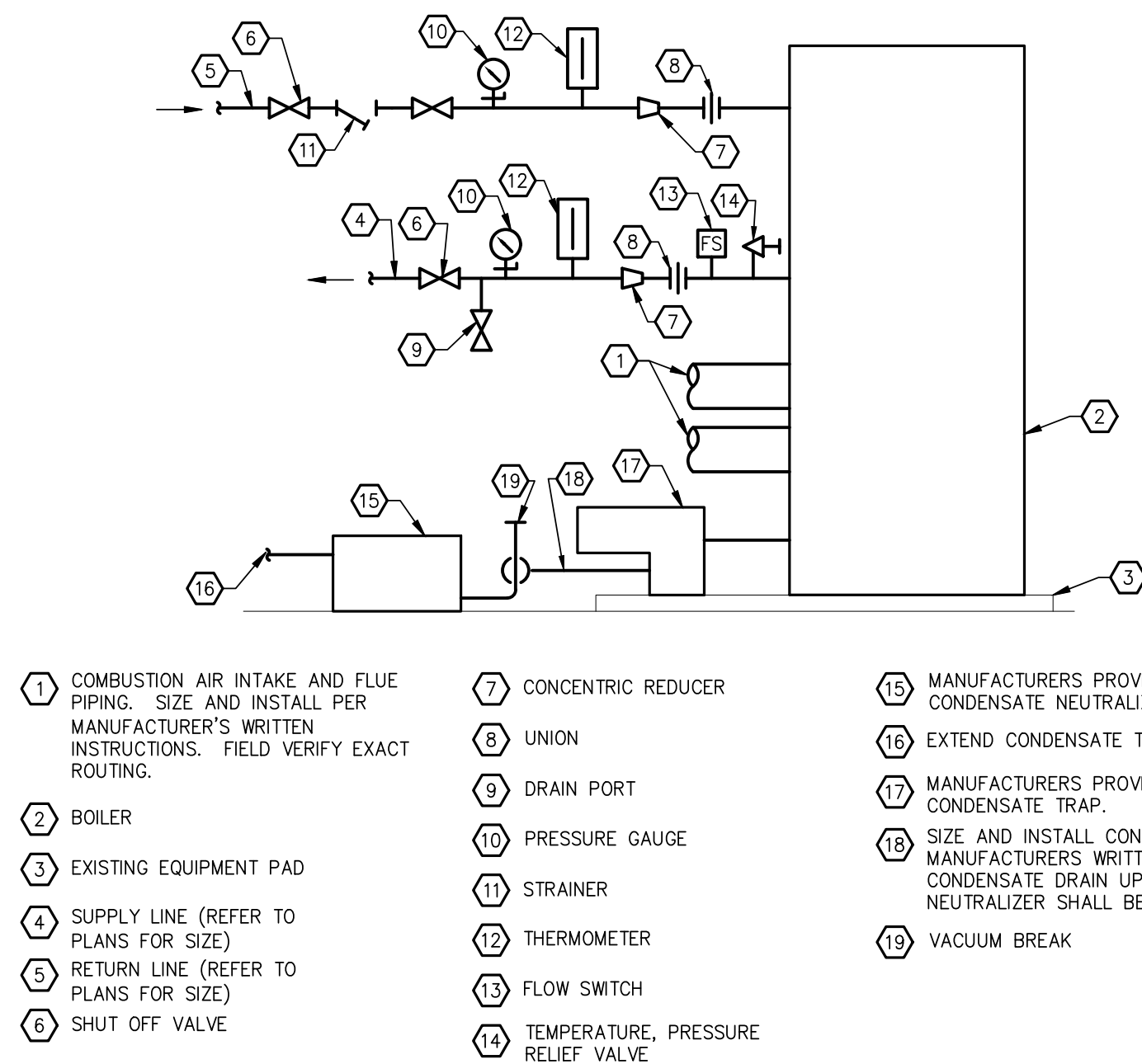
ALTERNATE	
<b>ALTERNATE HWD-M1:</b> STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE FOLLOWING:	
1.	OMISSION OF THE INSTALLATION OF INDIRECT WATER HEATER PIPING AND CIRCUATION PUMP HWD-HWS-1 AS WELL AS ASSOCIATED TEMPERATURE CONTROLS.
2.	INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE REGULATOR, AND TEMPERATURE CONTROLS.

HVAC DRAWING LIST		
DWG NO.	TITLE	FILE NO.
M1.01	LEGEND, GENERAL NOTES, & SCHEDULES	26003132M1.01.dwg
M1.02	DETAILS	26003132M1.02.dwg
M1.03	FLOW DIAGRAM	26003132M1.02.dwg
M3.01	HVAC PLANS	26003132M3.01.dwg
M6.01	TEMPERATURE CONTROLS	26003132M3.01.dwg
M6.02	TEMPERATURE CONTROLS SCHEMATICS	26003132M3.01.dwg

MECHANICAL LEGEND	
	EXISTING DUCTWORK/PIPING/EQUIPMENT TO REMAIN AS IS
	EXISTING DUCTWORK/PIPING/EQUIPMENT TO REMAIN AS IS
	EXISTING DUCTWORK/PIPING/EQUIPMENT TO BE REMOVED
	NEW DUCTWORK/PIPING/EQUIPMENT
	NEW DUCTWORK/PIPING/EQUIPMENT
	FLEXIBLE CONNECTION
	MANUAL VOLUME BALANCING DAMPER
	MOTOR OPERATED DAMPER
	THERMOSTAT
	EXISTING THERMOSTAT
	NEW WORK DRAWING KEY NOTE
	CONNECTION OF NEW TO EXISTING
	DETAIL TAG NUMBER
	DRAWING REFERENCE NUMBER
	HVAC SECTION MARKER
	DRAWING REFERENCE NUMBER
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROL CONTRACTOR
A.F.F.	ABOVE FINISHED FLOOR
B.O.D.	BOTTOM OF DUCT
cfm	CUBIC FEET PER MINUTE
F.A.I.	FRESH AIR INTAKE
W.M.S.	REMOVEABLE WIRE MESH SCREEN (1/2" X 1/2" FABRIC)
U.O.N.	UNLESS OTHERWISE NOTED
E.A.	EXHAUST AIR
N.G.	NATURAL GAS
	DUCT TRANSITION
	DUCT UNDER NEGATIVE PRESSURE TURNING OUT OF THE DRAWING
	DUCT UNDER NEGATIVE PRESSURE TURNING INTO THE DRAWING
	BUTT PIPE COUPLING
	THREE-WAY VALVE
	PRESSURE REDUCUONG VALVE
	RELIEF VALVE
	TRIPLE-DUTY VALVE
	BYPASS VALVE
	CHECK VALVE
	STRAINER
	STRAINER WITH BLOW-DOWN VALVE
	UNION
	CAP
	PIPE ANCHOR
	FLEXIBLE CONNECTION

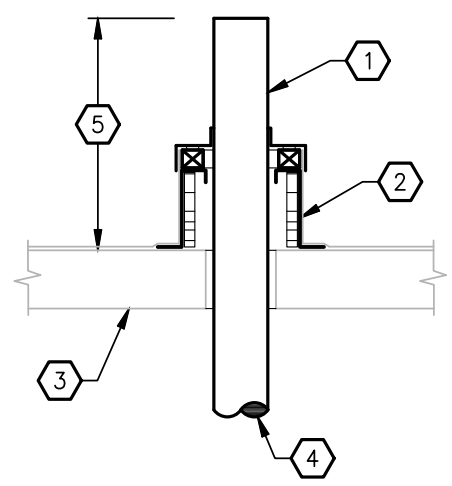


L:\Kohler Architecture Inc\26003132.001A-Kohler - MPS Hollywood Ele Working\4\_DRAWINGS\DWG\26003132.M1.02.dwg 02/05/26 11:25:19 ASattler



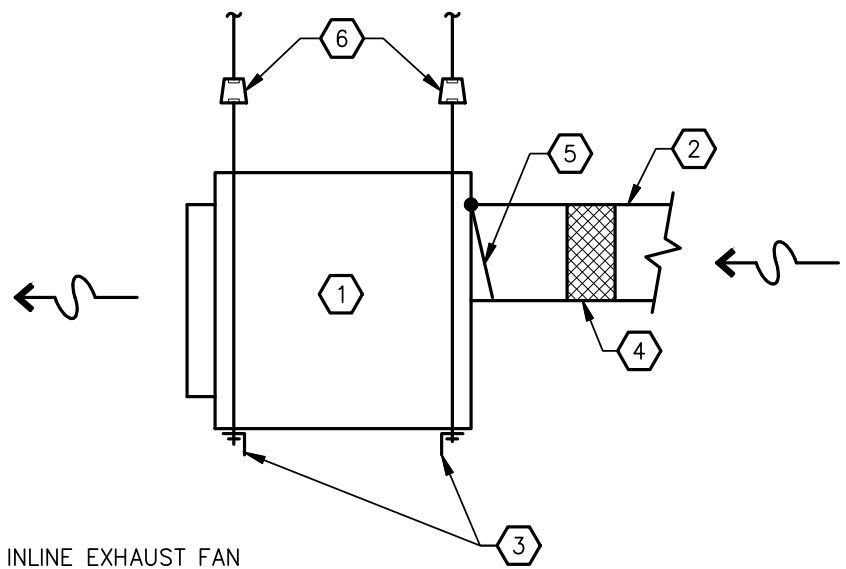
NOTE: ALL SUPPLY, RETURN AND BYPASS PIPING AND ASSOCIATED VALVES, ETC. INDICATED IN THIS DETAIL SHALL BE INSTALLED FULL SIZE FOR EACH BOILER.

**A** BOILER PIPING DETAIL  
M1.03  
M2.01  
NO SCALE



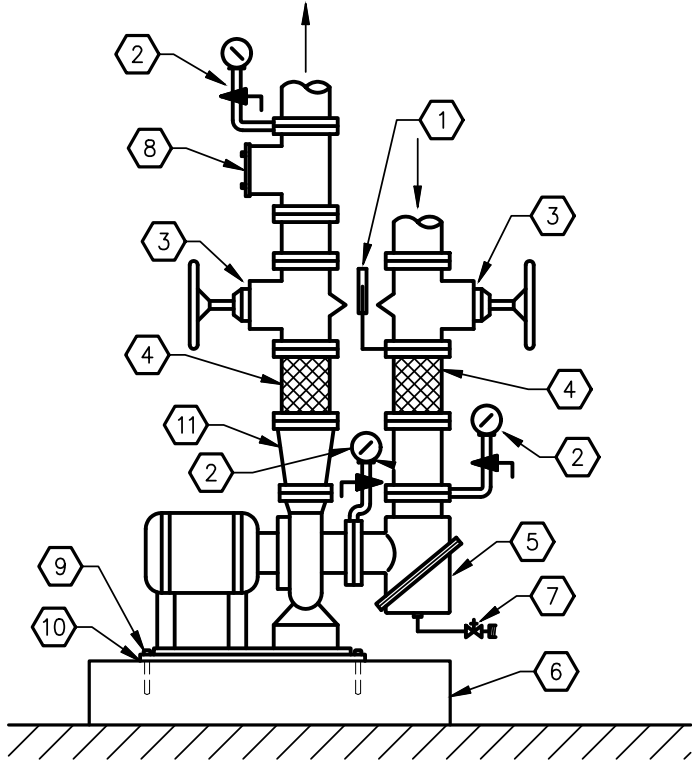
- 1 SIZE AND INSTALL FLUE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.  
2 PRE-FABRICATED ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. INSTALLED BY GENERAL CONTRACTOR.  
3 ROOF CONSTRUCTION ASSEMBLY.  
4 EXTEND FLUE DOWN TO GAS FIRED APPLIANCE; CONNECTION SHALL BE IN COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.  
5 MINIMUM 3 FEET ABOVE THE ROOF AND 2 FEET HIGHER THAN ANY PORTION OF THE BUILDING WITHIN 10 FEET.

**E** FLUE THRU ROOF DETAIL  
M3.01  
NO SCALE



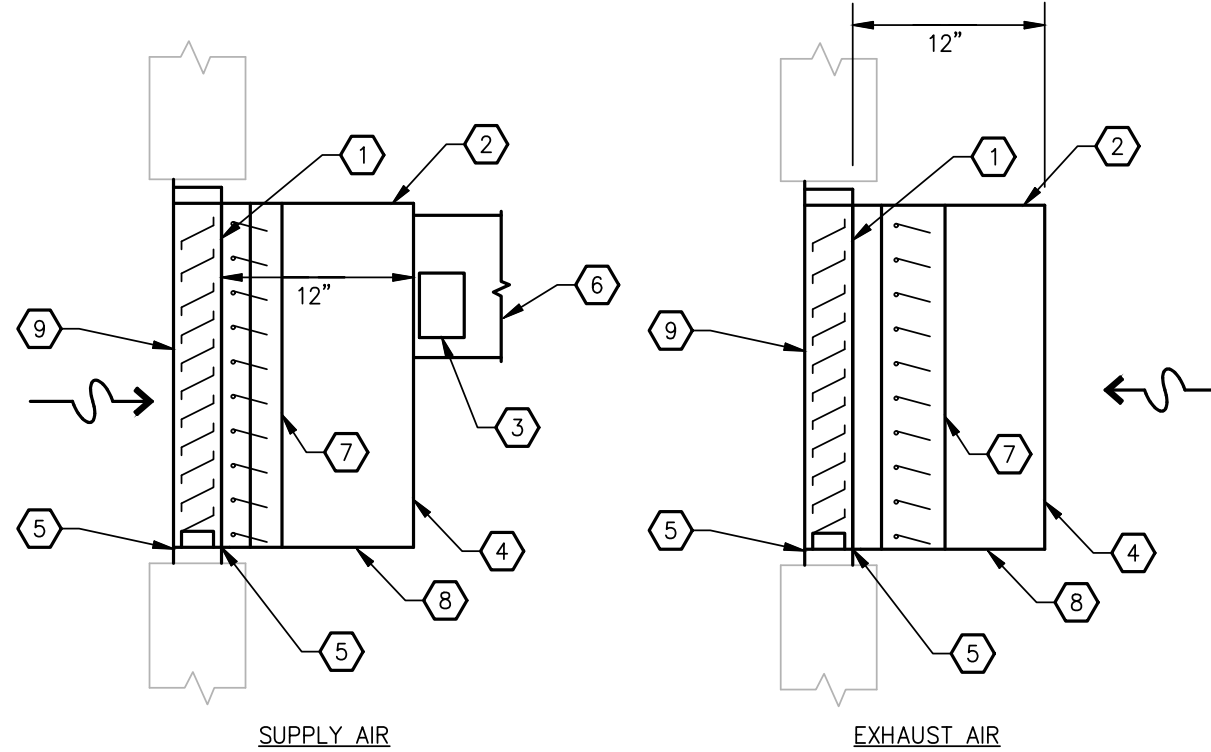
- 1 INLINE EXHAUST FAN  
2 O.A. DUCTWORK. REFER TO FLOOR PLAN(S) FOR SIZE & CONFIGURATION  
3 SUPPORT ANGLE AND HANGING RODS. HANGING RODS SHALL BE SIZED BY THE CONTRACTOR AND SUFFICIENT TO SUPPORT LOAD.  
4 FLEXIBLE CONNECTION  
5 BACKDRAFT DAMPER  
6 VIBRATION ISOLATION HANGER.

**K** INLINE SUPPLY FAN  
M3.01  
NO SCALE



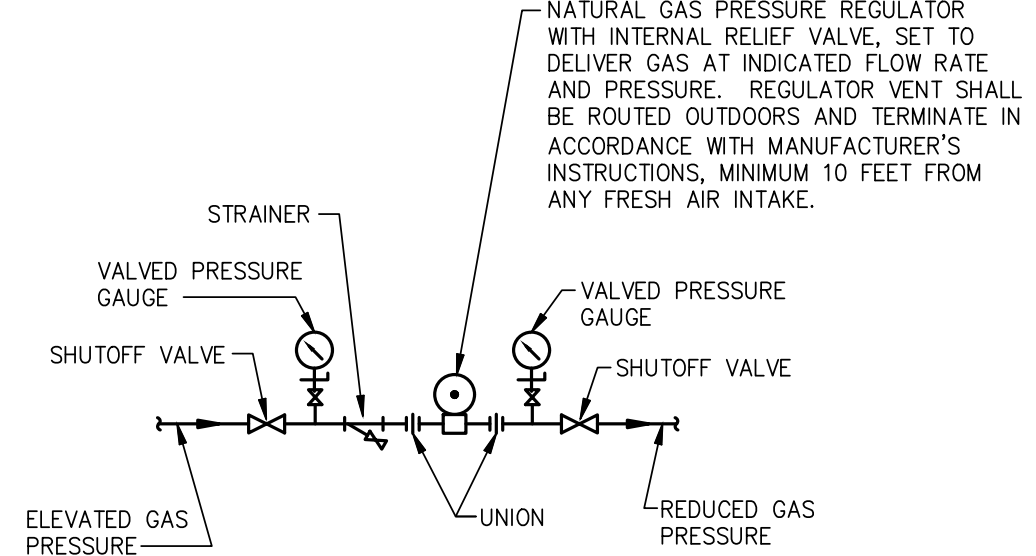
- 1 THERMOMETER POSITIONED FOR OPTIMUM VIEWING  
2 PRESSURE GAUGE W/ 1-1/4" COCK POSITIONED FOR OPTIMUM VIEWING  
3 SHUT-OFF VALVE  
4 FLEXIBLE CONNECTION (PIPE SIZE AS INDICATED ON PLAN)  
5 SUCTION DIFFUSER, STRAINER, REDUCER. SUCTION DIFFUSER INLET TO MATCH PIPE SIZE INDICATED ON PLANS.  
6 4" CONCRETE HOUSEKEEPING PAD (BY G.C.)  
7 BLOWDOWN VALVE & HOSE BIBB CONNECTION  
8 CHECK VALVE  
9 BOLT PUMP BASE TO PAD  
10 NEOPRENE PAD AT EACH BOLTED CONNECTION  
11 TRANSITION FROM PUMP DISCHARGE TO PIPE SIZE INDICATED ON PLAN

**B** END SUCTION PUMP DETAIL  
M1.02  
M3.01  
NO SCALE

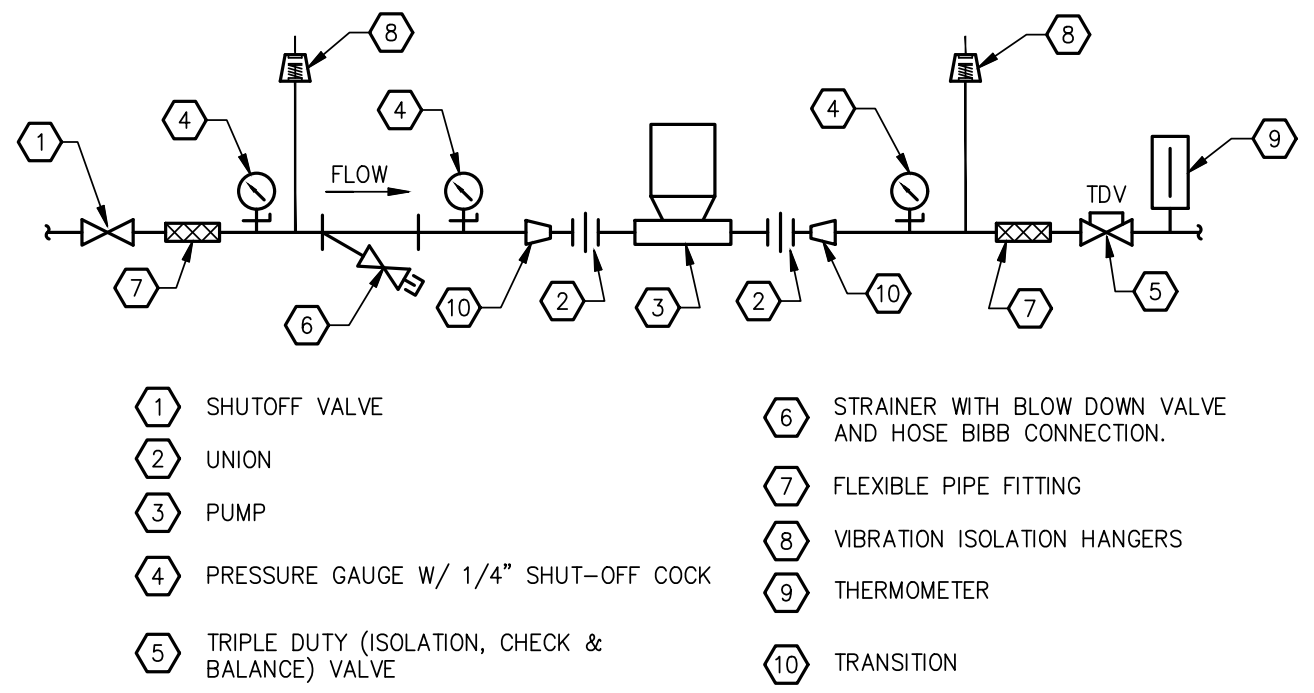


- 1 1/2" BIRDSCREEN  
2 INSULATE LOUVER PLENUM WITH 2 IN. RIGID FIBERGLASS BOARD INSULATION  
3 ACCESS DOOR: HALF HEIGHT OF DUCT, 12"x12" MINIMUM (UNLESS SHOWN OTHERWISE ON PLANS).  
4 SOLDER BOTTOM JOINT & UP 12".  
5 SEAL AND CAULK AROUND PERIMETER OF LOUVER  
6 DUCTWORK. REFER TO PLAN(S) FOR SIZE AND CONFIGURATION.  
7 MOTORIZED DAMPER  
8 PITCH BOTTOM OF LOUVER PLENUM TOWARD OUTER WALL.  
9 LOUVER

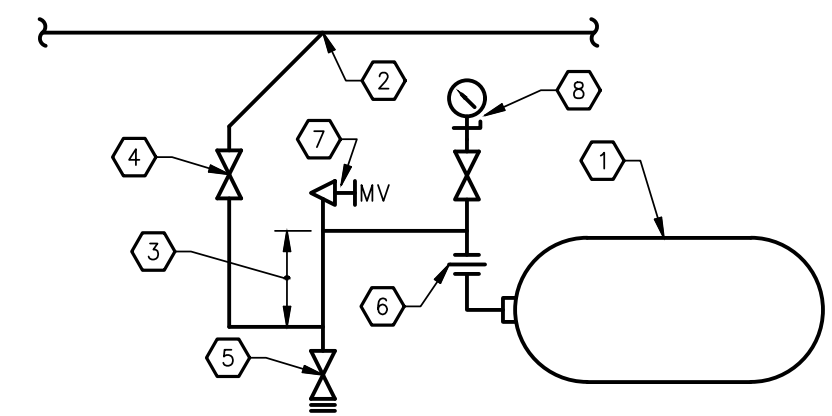
**F** LOUVER DETAIL  
M3.01  
NO SCALE



**G** NATURAL GAS PRESSURE REGULATOR DETAIL  
M3.01  
NO SCALE

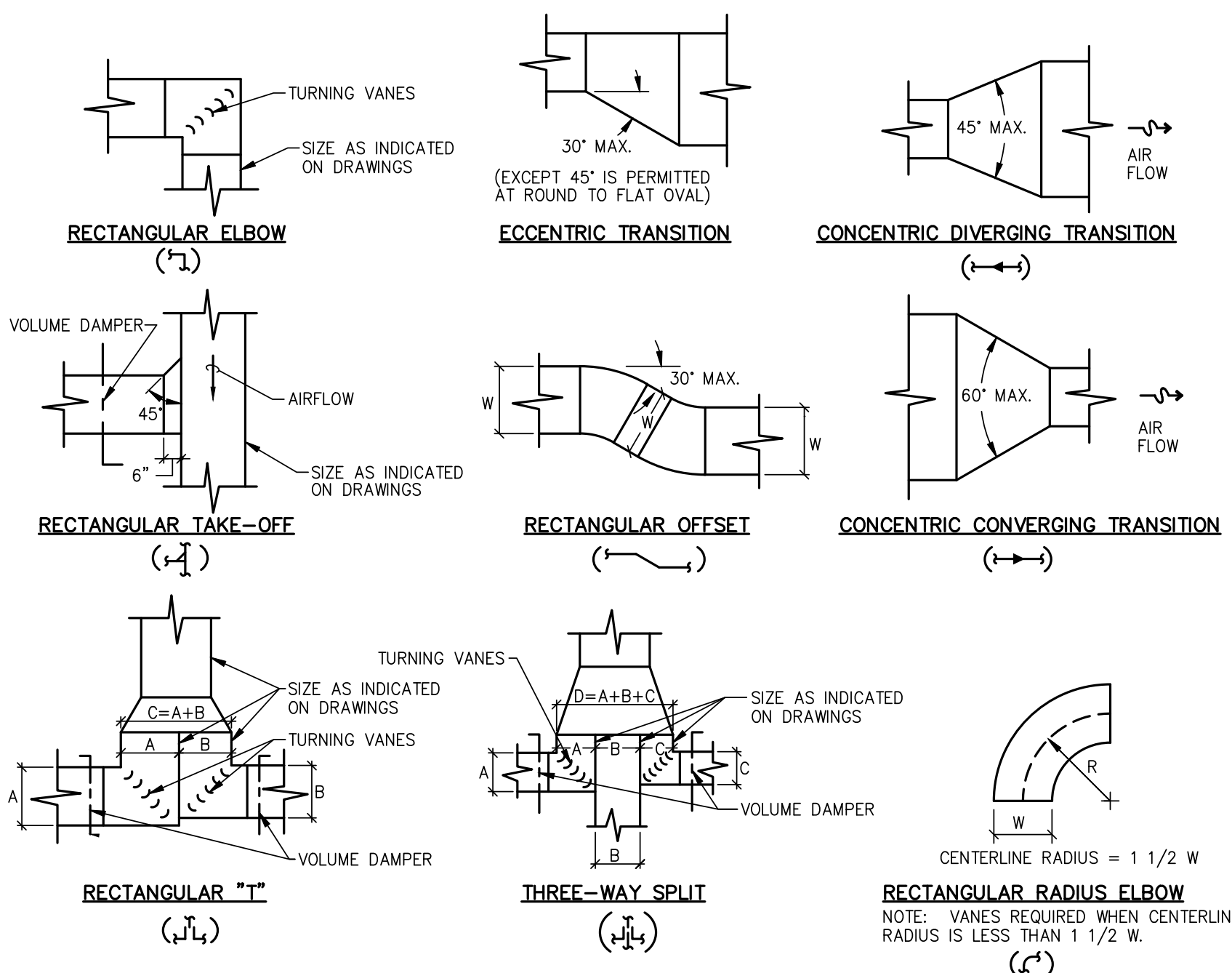


**C** VERTICAL IN-LINE PUMP WITH HORIZONTAL PIPING DETAIL  
M1.03  
M3.01  
NO SCALE



- 1 DIAPHRAGM TYPE EXPANSION TANK  
ACCEPTANCE VOLUME = 56.5  
TOTAL VOLUME = 67.25  
INITIAL PRESSURE = 12 PSI  
2 CONNECT TO SIDE OF MAIN  
3 ANTI-THERMOSIPHON LOOP, MINIMUM 12" DROP  
4 SHUT-OFF VALVE  
5 DRAIN CONNECTION  
6 UNION  
7 MANUAL AIR VENT  
8 PRESSURE GAUGE WITH STOP-COOK  
**PIPE SIZE FROM TANK TO SYSTEM:**  
EQUIVALENT PIPE LENGTH UP TO 30' AND MAX. AVERAGE DESIGN TEMPERATURE OF 170° F.

**D** TYPICAL DIAPHRAGM EXPANSION TANK PIPING DETAIL  
M1.03 & M3.01  
NO SCALE



**J** DUCTWORK TRANSITION DETAILS  
M3.01  
NO SCALE  
(SINGLE LINE, AS SHOWN ON DRAWING.)

ALTERNATE

ALTERNATE HWD-M1: STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE FOLLOWING:

- OMISSION OF THE INSTALLATION OF INDIRECT WATER HEATER PIPING AND CIRCULATION PUMP HWD-HWS-1 AS WELL AS ASSOCIATED TEMPERATURE CONTROLS.
- INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE REGULATOR, AND TEMPERATURE CONTROLS.

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED USING A DIGITAL SIGNATURE AND DATE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED, AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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02/09/2026  
STATE OF MICHIGAN  
EMILY RENEE SCHWARZKOPF  
6201063334  
REGISTERED PROFESSIONAL ENGINEER  
Emily R. Schwarzkopf

DATE	DESCRIPTION
02.09.2026	BIDDING & STATE REVIEW

**BOILER REPLACEMENT & RELATED WORK**  
**HOLLYWOOD ELEMENTARY SCHOOL**  
1135 RIVERVIEW AVE., MONROE, MICHIGAN 48162  
**MONROE PUBLIC SCHOOLS**  
1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

AT	FOR
<b>JOB #</b>	<b>26101</b>

DETAILS  
**M1.02**





Energy Code:	2021 IECC
Project Title:	Orchard Center High School Boiler Replacement
Location:	Monroe, Michigan
Climate Zone:	5a
Project Type:	Alteration

Construction Site: \_\_\_\_\_ Owner/Agent: \_\_\_\_\_ Designer/Contractor: \_\_\_\_\_

Quantity	Component	Description
<b>HVAC Systems</b>		
1	Unit Heater HQ-UH-1	<p>Heating: 1 each - Unit Heater (HQ-UH-1). Electric. Capacity = 25600 Kbtu/hr            No minimum efficiency requirement applies</p> <p>Fan System: HQ-UH-1   Boiler Room - Compliance (Motor nameplate HP and fan efficiency method) : Passes</p> <p>Fans:            UH-1 Supply, Constant Volume, 700 CFM, 0.3 motor nameplate hp, 1.72 fan energy index</p> <p>SYSTEM VERIFICATION REQUIRED.</p>

2	Boiler HO-B-1 & 2	Heating: Hot Water Boiler, Capacity 725 kBtu/h, Unknown Proposed Efficiency: 97.20 % Et, Required Efficiency: 82.00 % Et  PLANT COMPLIANCE REQUIREMENT UNKNOWN Alteration details have not been specified
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**Compliance Statement:** The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

<b>Name - Title</b>	<b>Signature</b>	<b>Date</b>
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SCALE: NONE



**ALTERNATE HWD-M1:** STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE FOLLOWING:

1. OMISSION OF THE INSTALLATION OF INDIRECT WATER HEATER PIPING AND CIRCULATION PUMP HWD-HWS-1 AS WELL AS ASSOCIATED TEMPERATURE CONTROLS..
2. INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE REGULATOR, AND TEMPERATURE CONTROLS.

### HEATING WATER SYSTEM FLOW DIAGRAM (ALT HWD-M1)

SCALE: NONE

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02/09/2026

STATE OF MICHIGAN

EMILY  
RENEE  
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6201063334

REGISTERED  
PROFESSIONAL ENGINEER

*Emily R. Schwarzkopf*

DATE	DESCRIPTION
2.09.2026	BIDDING & STATE REVIEW

## **BOILER REPLACEMENT & RELATED WORK**

**HOLLYWOOD ELEMENTARY SCHOOL**

1135 RIVERVIEW AVE., MONROE, MICHIGAN 48162

1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

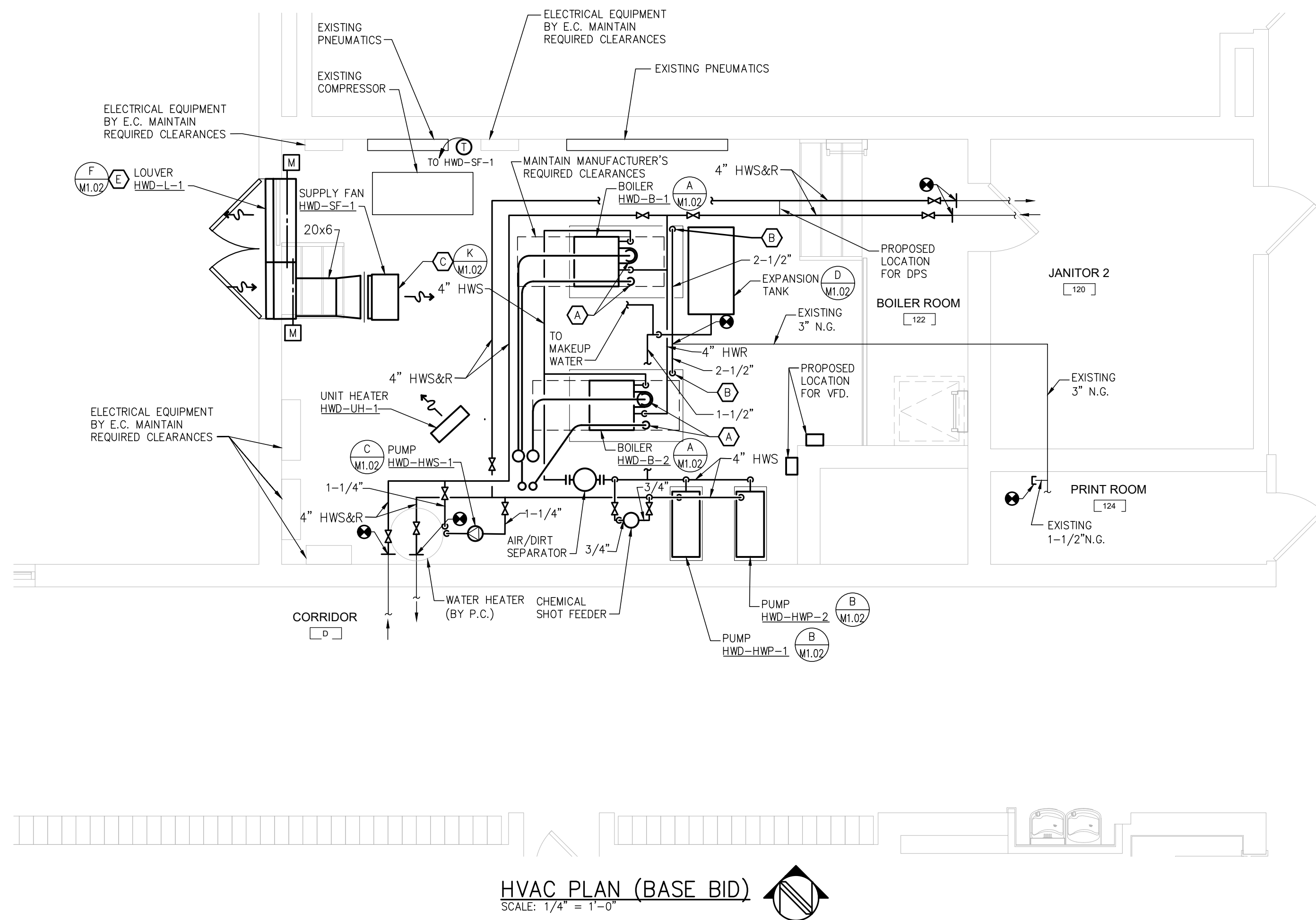
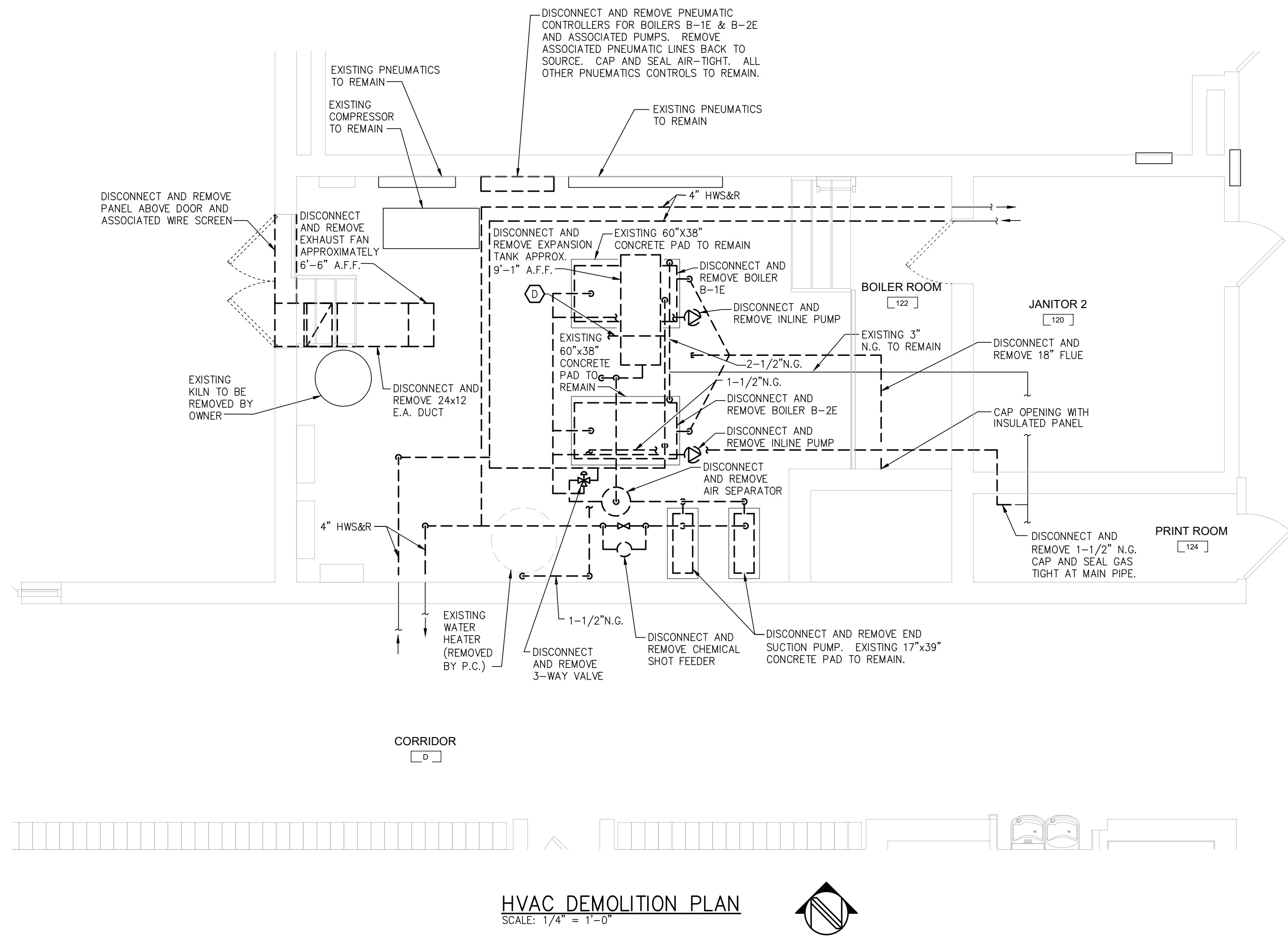
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### FLOW DIAGRAM

# M1.03



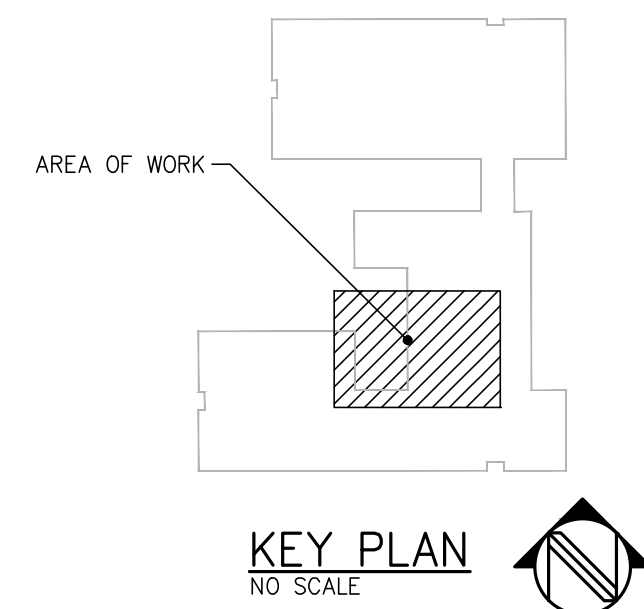
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- GENERAL NOTES:**
- FRESH AIR INTAKE SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY EXHAUST OUTLET, FLUE OR PLUMBING VENT. COORDINATE EQUIPMENT AND VENT LOCATIONS WITH PLUMBING CONTRACTOR.
  - ROOF CURBS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF CONSTRUCTION.
  - MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DUCT/PLUMBING CHASES WITH ALL OTHER TRADES.
  - PIPE PENETRATIONS THRU ALL FIRE RATED WALLS SHALL BE SEALED BY THE MECHANICAL CONTRACTOR, TO PREVENT SPREAD OF FIRE AND SMOKE AND INGRESS OF MOISTURE.
  - PROVIDE ALL HANGERS, SUPPORTS AND MISCELLANEOUS STEEL REQUIRED FOR THE PROPER INSTALLATION OF ALL PIPE, DUCTWORK AND EQUIPMENT.
  - COORDINATE DUCTWORK, PIPING AND EQUIPMENT LOCATIONS WITH ALL OTHER TRADES.
  - MAINTAIN REQUIRED MANUFACTURERS' CLEARANCES ON ALL EQUIPMENT.
  - ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND DETAIL "J" ON DRAWING M1.02.
  - EXISTING PNEUMATIC SYSTEM OPERATION SHALL BE FIELD VERIFIED IMMEDIATELY AFTER DEMOLITION. PNEUMATIC SYSTEM FOR EXISTING EQUIPMENT MUST BE RETAINED.

- PLAN NOTES:**
- ROUTE FLUE AND COMBUSTION AIR INTAKE UP THRU ROOF AS SHOWN ON PLAN. SIZE AND INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO DETAIL "E" LOCATED ON DRAWING M1.02 FOR ADDITIONAL INFORMATION.
  - ROUTE 2-1/2" N.G. LINE TO ASSOCIATED BOILER. INSTALL NEW REGULATOR, SET TO DELIVER 725 CFH AT 7" W.C., IN ACCORDANCE WITH BOILER AND REGULATOR MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO DETAIL "G" & "H" LOCATED ON DRAWING M1.02 FOR ADDITIONAL INFORMATION.
  - COVER OPENING WITH 1/2" REMOVABLE W.M.S.
  - DISCONNECT AND REMOVE 1" PIPING TO MAKEUP WATER CONNECTION.
  - 30x18 PORTION OF LOUVER SHALL BE UTILIZED FOR SUPPLY AIR ASSOCIATED WITH SUPPLY FAN HWD-SF-1. 44x18 PORTION OF LOUVER SHALL BE UTILIZED FOR BOILER ROOM RELIEF.
  - NEW N.G. REGULATOR, SET TO DELIVER 150 CFH AT 7" W.C. INSTALL IN ACCORDANCE WITH DETAIL "G" LOCATED ON DRAWING M1.02 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

ALTERNATE	
<b>ALTERNATE HWD-M1:</b> STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE FOLLOWING:	
1.	OMISSION OF THE INSTALLATION OF INDIRECT WATER HEATER PIPING AND CIRCULATION PUMP HWD-HWS-1 AS WELL AS ASSOCIATED TEMPERATURE CONTROLS.
2.	INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE REGULATOR, AND TEMPERATURE CONTROLS.



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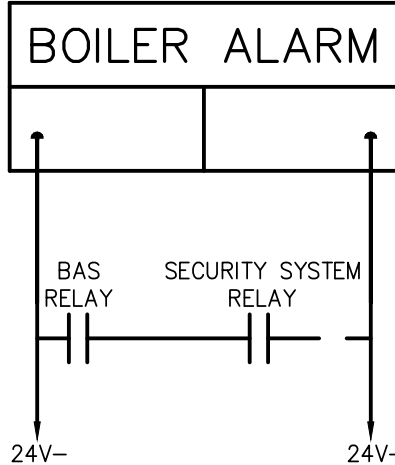
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TEMPERATURE CONTROL SYSTEM POINT LIST											
SYSTEM POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC		
	AI	AO	BI	BO	AV	BV	SCHED	TREND			
BOILER HWD-B-1 HOT WATER RETURN TEMP	X							X		X	
BOILER HWD-B-1 HOT WATER SUPPLY TEMP	X							X		X	
BOILER HWD-B-2 HOT WATER RETURN TEMP	X							X		X	
BOILER HWD-B-2 HOT WATER SUPPLY TEMP	X							X		X	
BOILER HWD-B-1 & HWD-B-2 HOT WATER SUPPLY TEMP SETPOINT RESET (QTY. 2)		X						X		X	
BOILER HWD-B-1 STATUS			X					X		X	
BOILER HWD-B-2 STATUS			X					X		X	
BOILER HWD-B-1 ENABLE				X						X	
BOILER HWD-B-2 ENABLE				X						X	
BOILER HWD-B-1 FAILURE									X		
BOILER HWD-B-2 FAILURE									X		
BOILER HWD-B-1 RUNTIME EXCEEDED									X		
BOILER HWD-B-2 RUNTIME EXCEEDED									X		
BOILER HWD-B-1 HIGH HOT WATER SUPPLY TEMP									X		
BOILER HWD-B-2 HIGH HOT WATER SUPPLY TEMP									X		
BOILER HWD-B-1 LOW HOT WATER SUPPLY TEMP									X		
BOILER HWD-B-2 LOW HOT WATER SUPPLY TEMP									X		
BOILER HWD-B-1 ISOLATION VALVE CLOSE		X									
BOILER HWD-B-1 ISOLATION VALVE OPEN		X									
BOILER HWD-B-1 ISOLATION VALVE POSITION					X			X		X	
BOILER HWD-B-2 ISOLATION VALVE CLOSE		X									
BOILER HWD-B-2 ISOLATION VALVE OPEN		X									
BOILER HWD-B-2 ISOLATION VALVE POSITION					X			X		X	
HOT WATER DIFFERENTIAL PRESSURE	X							X		X	
HOT WATER DIFFERENTIAL PRESSURE SETPOINT					X			X		X	
HIGH HOT WATER DIFFERENTIAL PRESSURE									X		
LOW HOT WATER DIFFERENTIAL PRESSURE									X		
PRIMARY HOT WATER RETURN TEMP	X							X		X	
PRIMARY HOT WATER SUPPLY TEMP	X							X		X	
HIGH PRIMARY HOT WATER SUPPLY TEMP									X		
LOW PRIMARY HOT WATER SUPPLY TEMP									X		
HOT WATER PUMP HWD-HWP-1 VFD SPEED		X						X		X	
HOT WATER PUMP HWD-HWP-2 VFD SPEED		X						X		X	
HOT WATER PUMP HWD-HWP-1 VFD FAULT			X						X	X	
HOT WATER PUMP HWD-HWP-2 VFD FAULT			X						X	X	
HOT WATER PUMP HWD-HWP-1 STATUS			X					X		X	
HOT WATER PUMP HWD-HWP-2 STATUS			X					X		X	
HOT WATER PUMP HWD-HWP-1 START/STOP				X						X	
HOT WATER PUMP HWD-HWP-2 START/STOP				X						X	
HOT WATER PUMP HWD-HWP-1 FAILURE									X		
HOT WATER PUMP HWD-HWP-2 FAILURE									X		
HOT WATER PUMP HWD-HWP-1 RUNNING IN HAND									X		
HOT WATER PUMP HWD-HWP-2 RUNNING IN HAND									X		
HOT WATER PUMP HWD-HWP-1 RUNTIME EXCEEDED									X		
HOT WATER PUMP HWD-HWP-2 RUNTIME EXCEEDED									X		
MAKEUP WATER FILL				X			X		X		X

TEMPERATURE CONTROL SYSTEM POINT LIST												
SYSTEM POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC			
	AI	AO	BI	BO	AV	BV	LOOP	SCHED				
DOMESTIC WATER HEATER (BASE BID)												
STORAGE TANK TEMPERATURE	X								X		X	
DOMESTIC HOT WATER SUPPLY TEMPERATURE	X								X		X	
DOMESTIC HOT WATER RETURN TEMPERATURE	X								X		X	
TANK SUPPLY TEMP SETPOINT RESET		X							X		X	
WATER HEATER STATUS			X						X		X	
WATER HEATER ENABLE				X					X		X	
HOT WATER DIFFERENTIAL PRESSURE	X								X		X	
HOT WATER DIFFERENTIAL PRESSURE SETPOINT						X			X		X	
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 STATUS			X						X		X	
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 START/STOP				X					X		X	
TANK CIRCULATION PUMP HWD-HWS-1 STATUS			X						X		X	
TANK CIRCULATION PUMP HWD-HWS-1 FAILURE										X		
TANK CIRCULATION PUMP HWD-HWS-1 IN HAND										X		
TANK CIRCULATION PUMP HWD-HWS-1 RUNTIME ALARM										X		
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 FAILURE										X		
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 STATUS			X						X		X	
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 IN HAND										X		
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 RUNTIME ALARM										X		
STORAGE TANK FAILURE										X		
STORAGE TANK RUNTIME EXCEEDED										X		
STORAGE TANK HIGH HOT WATER SUPPLY TEMP										X		
STORAGE TANK LOW HOT WATER SUPPLY TEMP										X		
HIGH HOT WATER DIFFERENTIAL PRESSURE										X		
LOW HOT WATER DIFFERENTIAL PRESSURE										X		

TEMPERATURE CONTROL SYSTEM POINT LIST												
SYSTEM POINT DESCRIPTION	HARDWARE POINTS				SOFTWARE POINTS				SHOW ON GRAPHIC			
	AI	AO	BI	BO	AV	BV	LOOP	SCHED				
DOMESTIC WATER HEATER (ALTERNATE HWD-M1)												
STORAGE TANK TEMPERATURE	X								X		X	
DOMESTIC HOT WATER SUPPLY TEMPERATURE	X								X		X	
DOMESTIC HOT WATER RETURN TEMPERATURE	X								X		X	
TANK SUPPLY TEMP SETPOINT RESET		X							X		X	
WATER HEATER STATUS			X						X		X	
WATER HEATER ENABLE				X					X		X	
HOT WATER DIFFERENTIAL PRESSURE	X								X		X	
HOT WATER DIFFERENTIAL PRESSURE SETPOINT						X			X		X	
STORAGE TANK FAILURE										X		
STORAGE TANK RUNTIME EXCEEDED										X		
STORAGE TANK HIGH HOT WATER SUPPLY TEMP										X		
STORAGE TANK LOW HOT WATER SUPPLY TEMP										X		
HIGH HOT WATER DIFFERENTIAL PRESSURE										X		
LOW HOT WATER DIFFERENTIAL PRESSURE										X		
GAS VALVE ISOLATION VALVE CLOSE		X										
GAS VALVE ISOLATION VALVE OPEN		X										
GAS VALVE ISOLATION VALVE POSITION					X				X		X	
AIR PRESSURE SWITCH			X									
BLOCKED DRAIN SWITCH			X									
GAS PRESSURE SWITCH			X									
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 FAILURE										X		
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 STATUS			X						X		X	
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 IN HAND										X		
DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 RUNTIME ALARM										X		

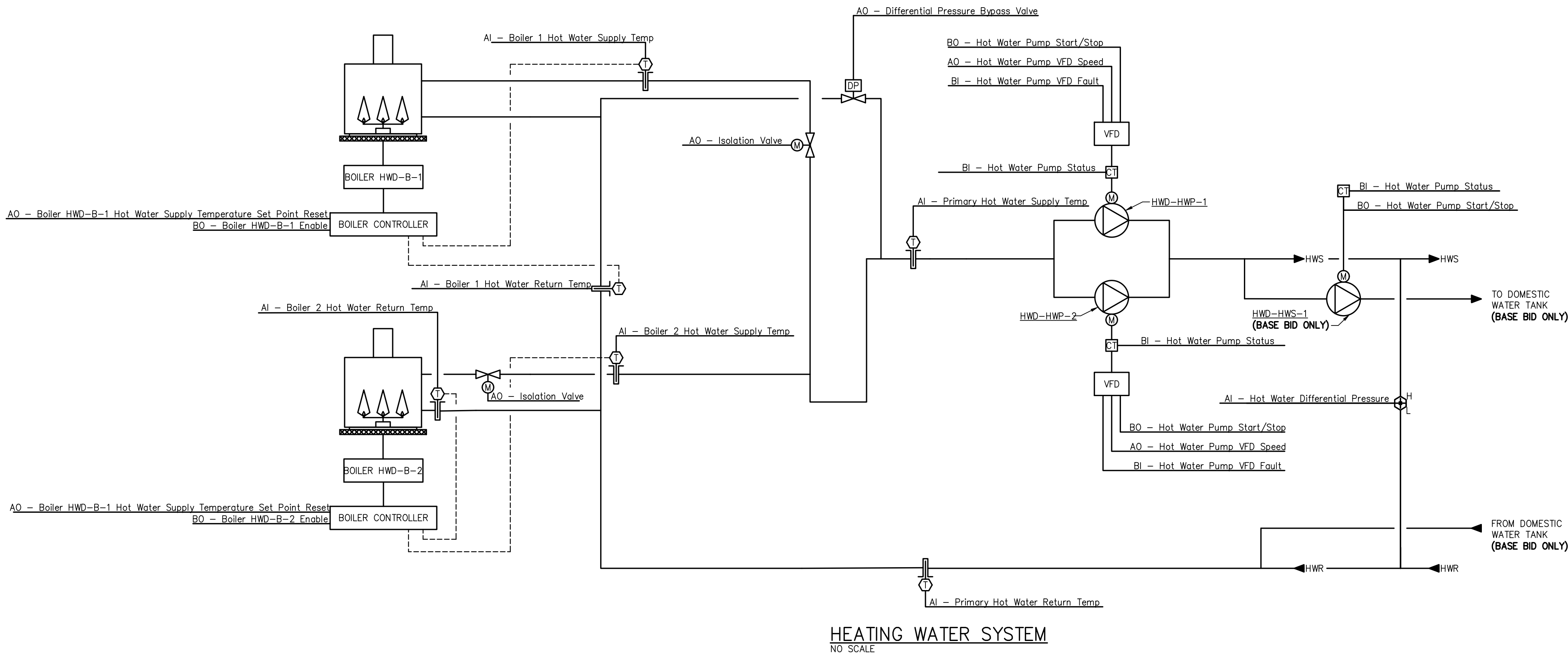
TEMPERATURE CONTROL SYSTEM SEQUENCE OF OPERATION												
<b>GENERAL NOTES:</b>												
THE TEMPERATURE CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPERATURE CONTROL AND INTERLOCK WIRING REQUIRED FOR THE PROJECT. ALL EXPOSED TO VIEW 24V AND ALL 120V TEMPERATURE CONTROL WIRING SHALL BE ROUTED IN ITS OWN SEPARATE CONDUIT FOR ENTIRE ROUTING; REFER TO THE ELECTRICAL SPECIFICATIONS FOR CONDUIT MATERIAL AND INSTALLATION REQUIREMENTS.												
THE INTENT OF THIS SPECIFICATION IS TO VERBALLY DESCRIBE THE DESIRED ACTIONS OF THE HVAC EQUIPMENT SPECIFIED HEREIN FOR THIS FACILITY. EACH TEMPERATURE CONTROL CONTRACTOR (T.C.C.) AND EACH MECHANICAL CONTRACTOR (M.C.) SHALL FAMILIARIZE HIMSELF WITH THESE WRITTEN SEQUENCES. WHETHER OR NOT EXPLICITLY SHOWN ON THE DRAWINGS, ALL DEVICES AND ITEMS REQUIRED FOR THE EXECUTION OF THESE SEQUENCES ARE THE RESPONSIBILITY OF THE BIDDING CONTRACTOR.												
ALL ASSOCIATED TEMPERATURE CONTROL EQUIPMENT NOT SPECIFICALLY ASSOCIATED WITH A PIECE OF EQUIPMENT SHALL BE LOCATED IN EASILY ACCESSIBLE SPACE (I.E. STORAGE ROOM, MECHANICAL ROOM, ETC.) AND SHALL BE CLEARLY TAGGED.												
<b>TEMPERATURE CONTROL SYSTEM GRAPHICS SCOPE</b>												
1. THE TEMPERATURE CONTROL SCOPE SHALL INCLUDE BUT NOT BE LIMITED TO COMPLETE DEMOLITION OF EXISTING PNEUMATIC CONTROLS ASSOCIATED WITH BOILERS, INSTALLATION OF COMPLETE NEW OPEN PROTOCOL DDC CONTROL SYSTEM (TIE INTO DISTRICTS ENERGY MANAGEMENT SYSTEM), GRAPHICS DISPLAY AND ALL ASSOCIATED ACCESSORIES.												
2. DISTRICT WIDE BOILER MONITOR PAGE: UPDATE EXISTING BUILDING BOILER AND SYSTEM PAGE FOR ASSOCIATED SCHOOL WITH NEW BOILER AND HEATING WATER SYSTEM.												
3. BUILDING PAGE: A. UPDATE BUILDING MAIN PAGE TO INCLUDE NEW BOILER MONITORING POINTS FOR ENABLE, HW PUMP STATUS AND HWS TEMP AND SETPOINT TEMPERATURE. INCLUDE LINK TO HOT WATER SYSTEM PAGE FOR ASSOCIATED BUILDING.												
4. ALL ASSOCIATED TEMPERATURE CONTROL EQUIPMENT NOT SPECIFICALLY ASSOCIATED WITH A PIECE OF EQUIPMENT SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION, I.E. STORAGE ROOM, CLOSET, MECHANICAL ROOM, AND BE CLEARLY LABELED.												
5. COORDINATE ALL SYSTEM ALARMS WITH APPROPRIATE MONROE PUBLIC SCHOOLS CONTACT. VERIFY WITH OWNER IN WRITING UPON COMPLETION.												
6. COORDINATE ALL SYSTEM SET POINTS AND SCHEDULES WITH APPROPRIATE MONROE PUBLIC SCHOOLS CONTACT. VERIFY WITH OWNER IN WRITING UPON COMPLETION.												
<b>BOILER ROOM HEATING AND VENTILATION (EXHAUST FAN HWD-EF-1, LOUVER L-E1 DAMPER, AND UNIT HEATER HWD-UH-1):</b>												
1. SPACE COOLING: SUPPLY FAN HWD-SF-1 SHALL ENERGIZE AND LOUVER HWD-L-1 DAMPER SHALL OPEN WHEN SPACE TEMP EXCEEDS 80 DEGREES F (ADJUSTABLE). WHEN SPACE TEMPERATURE DROPS BELOW SETPOINT, FAN SHALL DE-ENERGIZE AND DAMPERS SHALL CLOSE.												
2. SPACE HEATING: UNIT HEATER HWD-UH-1 SHALL ENERGIZE WHEN SPACE TEMPERATURE FALLS BELOW 55 DEGREES F (ADJUSTABLE). WHEN SPACE TEMPERATURE EXCEEDS SETPOINT, UNIT HEATER SHALL DE-ENERGIZE.												
<b>HOT WATER SYSTEM (BOILERS HWD-B-1 &amp; 2, HEATING WATER PRIMARY PUMPS HWD-HWP-1 &amp; 2, AND INDIRECT WATER HEATER CIRCULATION PUMP HWD-HWS-3):</b>												
1. EACH BOILER IS PROVIDED WITH ALL NECESSARY SAFETY AND OPERATING CONTROLS BY THE BOILER MANUFACTURER. EACH BOILER'S OPERATING TEMPERATURE IS MANUALLY SET TO MAINTAIN 180F (ADJ.) WATER TEMPERATURE. THE HIGH LIMIT AQUASTAT SUPPLIED WITH THE BOILER SHALL BE SET AT 210F (ADJ.).												
2. THE BOILER SYSTEM SHALL BE INITIATED BELOW 65F (ADJ.) OUTSIDE AIR TEMPERATURE. THE LEAD BOILER SHALL BE STARTED WITH THE FOLLOWING SEQUENCE:  A. UPON A CALL FOR HEAT FROM THE BOILER CONTROLS AND UPON A PROOF OF FLOW FROM A CURRENT SWITCH ON THE LEAD HOT WATER PUMP, THE BOILER ISOLATION VALVE SHALL OPEN, THE BOILER SHALL BE ENABLED.  B. SHOULD LEAD HOT WATER PUMP FAIL TO PROVE FLOW, LAG PUMP SHALL ENABLE. IF LAG PUMP FAILS, THE BOILER SHALL BE DISABLED AND AN ALARM SHALL BE GENERATED THROUGH THE DDC SYSTEM.												
3. HOT WATER LOOP SHALL BE LINEARLY RESET BASED ON OUTDOOR AIR TEMPERATURE.												
4. PROVIDE LEAD/LAG CONTROL TO ALLOW SELECTION OF LEAD/LAG BOILER. BOILERS SHALL ALTERNATE BETWEEN LEAD AND LAG AUTOMATICALLY ON A WEEKLY BASIS (BY TCC).												
5. LEAD BOILER'S ASSOCIATED ISOLATION VALVE SHALL OPEN, AND BOILER SHALL FIRE ON LOW FIRE. BOILER SHALL MODULATE AS REQUIRED TO MAINTAIN LOOP TEMPERATURE. IF LEAD BOILER CAN NOT MAINTAIN LOOP TEMPERATURE, LEAD BOILER SHALL RAMP DOWN TO LOW FIRE, AND ISOLATION VALVE FOR SECOND BOILER SHALL OPEN AND SECOND BOILER SHALL FIRE ON LOW FIRE. BOTH BOILERS SHALL MODULATE TO MAINTAIN LOOP TEMPERATURE. ONCE LOOP IS SATISFIED LAG BOILER SHALL DE-ENERGIZE. AFTER FIVE MINUTES ISOLATION VALVE SHALL CLOSE.												
6. PROVIDE LEAD/LAG CONTROL TO ALLOW SELECTION OF LEAD/LAG PUMP. PUMPS SHALL ALTERNATE BETWEEN LEAD AND LAG AUTOMATICALLY ON A WEEKLY BASIS (BY TCC).												
<b>DOMESTIC HOT WATER:</b>												
1. BASE BID ONLY: ASSOCIATED DOMESTIC INDIRECT WATER HEATER TANK CIRCULATION PUMP HWD-HWS-1 SHALL ENERGIZE TO MAINTAIN INDIRECT HOT WATER STORAGE TANKS WATER TEMPERATURE. WHEN STORAGE TANK SET POINT IS MET, CIRCULATION PUMP SHALL DE-ENERGIZE. DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 SHALL OPERATE AS REQUIRED TO MEET DOMESTIC HOT WATER LOOP SETPOINTS.												
2. ALTERNATE HWD-M1 ONLY: ASSOCIATED DOMESTIC GAS-FIRED WATER HEATER SHALL MODULATE TO MAINTAIN HOT WATER TANK WATER TEMPERATURE SETPOINT. DOMESTIC HOT WATER CIRCULATION PUMP HWD-CP-1 SHALL OPERATE AS REQUIRED TO MEET DOMESTIC HOT WATER LOOP SETPOINTS.												



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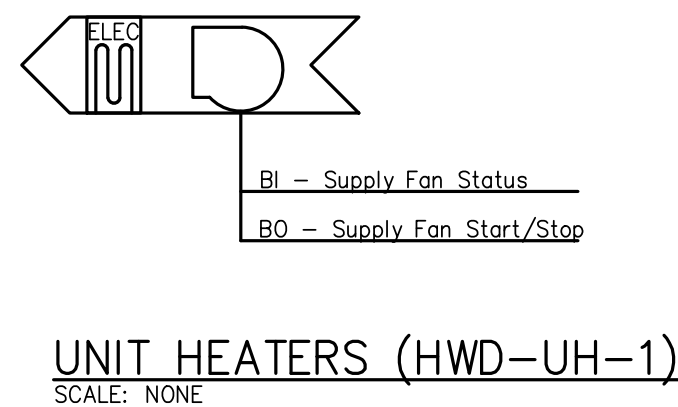
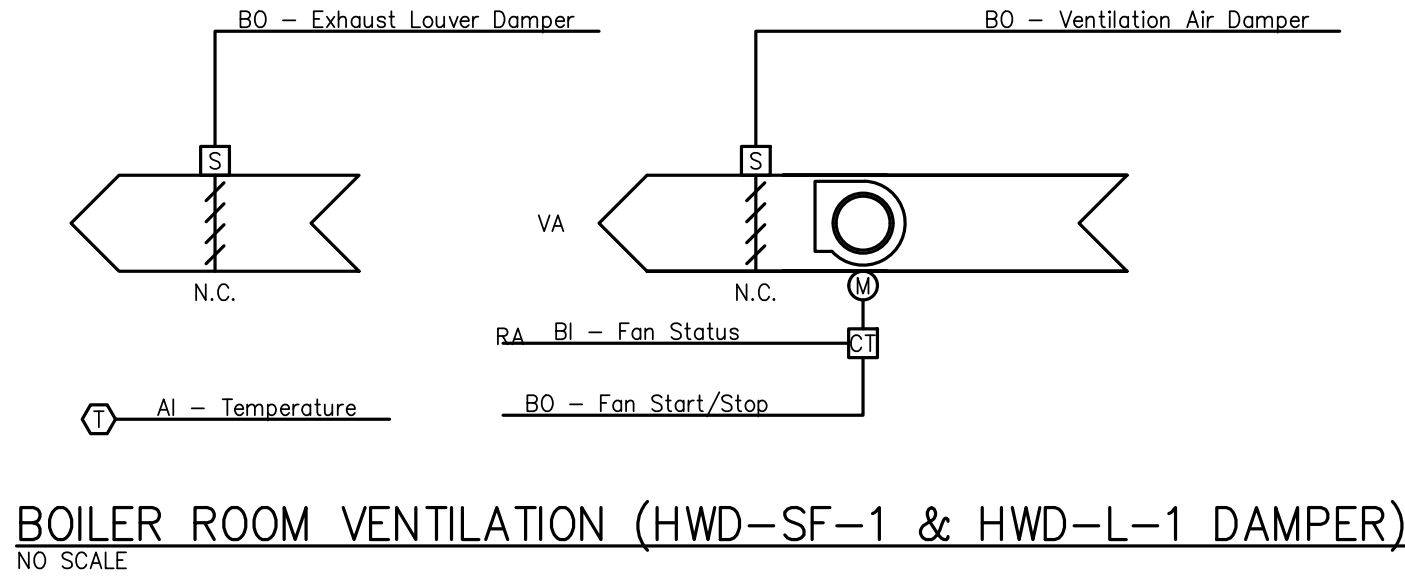


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TEMPERATURE CONTROL SYSTEM POINT LIST											
SYSTEM POINT DESCRIPTION											
	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC
UNIT HEATER (HWD-UH-1)	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	
ZONE SETPOINT ADJUST	X										X
FAN STATUS			X						X		X
FAN START/STOP				X					X		X
ZONE TEMPERATURE					X				X		X
HEATING SETPOINT					X				X		X
SCHEDULE								X			
LOW ZONE TEMPERATURE										X	X
FAN FAILURE										X	
FAN IN HAND										X	
FAN RUNTIME EXCEEDED										X	

TEMPERATURE CONTROL SYSTEM POINT LIST											
SYSTEM POINT DESCRIPTION											
	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC
BOILER ROOM VENTILATION	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	
EXHAUST FAN HWD-SF-1 STATUS			X						X		X
EXHAUST FAN HWD-SF-1 START/STOP				X					X		X
RELUSF HOOD HWD-L-1 LOUVER INTAKE DAMPER				X					X		X
EXHAUST FAN HWD-SF-1 DAMPER				X					X		X
COOLING SETPOINT					X				X		X
ZONE TEMPERATURE					X				X		X
HIGH ZONE TEMPERATURE										X	
FAN FAILURE										X	
FAN IN HAND										X	
FAN RUNTIME EXCEEDED										X	



#### ALTERNATE

- ALTERNATE HWD-M1:** STATE THE AMOUNT TO BE ADDED TO OR SUBTRACTED FROM THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE FOLLOWING:
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  - INSTALLATION OF N.G. CONNECTION TO DOMESTIC GAS-FIRED WATER HEATER, 1-1/4" GAS PIPING AS SHOWN ON PLANS, NEW GAS PRESSURE REGULATOR, AND TEMPERATURE CONTROLS.

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DATE	DESCRIPTION
02.09.2026	BIDDING & STATE REVIEW

BOILER REPLACEMENT & RELATED WORK

HOLLYWOOD ELEMENTARY SCHOOL

1135 RIVERVIEW AVE., MONROE, MICHIGAN 48162

MONROE PUBLIC SCHOOLS

1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

JOB # 26101

TEMP CONTROLS  
SCHEMATICS

M6.02



## PLUMBING GENERAL NOTES

### PART 1 GENERAL

#### 1.01 PURPOSE

THESE OUTLINE SPECIFICATIONS ARE NOT INTENDED TO COVER ALL NECESSARY ITEMS, BUT TO SERVE AS A GUIDE TO FURNISH AND INSTALL A COMPLETE PLUMBING SYSTEM AS DESCRIBED HEREIN.

#### 1.02 SCOPE OF WORK

FURNISH AND INSTALL THE PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF THE PLUMBING SYSTEMS.
- CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE PLUMBING SYSTEMS.
- REMOVALS AS REQUIRED AND/OR AS INDICATED.
- DOMESTIC WATER SYSTEM INCLUDING PIPING TO ALL FIXTURES OR EQUIPMENT, VALVES, WATER HEATER, CIRCULATING PUMPS, ETC.
- INSULATION FOR PIPING.
- SANITARY WASTE AND VENT PIPING SYSTEM INCLUDING PIPING TO ALL FIXTURES OR EQUIPMENT AS INDICATED.
- FIRE STOP INCLUDING SLEEVES THRU RATED WALLS AND FLOORS.
- ALL VALVES, FITTINGS, HANGERS, SLEEVES, ESCUTHEON PLATES, ANCHORS, GUIDES, ETC., REQUIRED FOR THE PLUMBING SYSTEM INSTALLATION.
- CHLORINATION, TESTING, ADJUSTMENT AND CLEANING OF ALL SYSTEMS AND EQUIPMENT.
- TEST THE SANITARY PIPING SYSTEM HYDROSTATICALLY AFTER INSTALLATION TO 10 FT. OF HEAD (4.3 PSI MAXIMUM). TESTING WITH COMPRESSED AIR OR GAS MAY RESULT IN INJURY OR DEATH.
- INSTRUCTION OF OWNERS' PERSONNEL AND OPERATING MANUALS FOR ALL EQUIPMENT.
- PERMITS, APPLICATIONS, TESTS AND ANY OTHER FEES RELATED TO THIS WORK.

#### 1.03 CONTRACT DRAWINGS

IN GENERAL, DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED AS A GUIDE TO THE CONTRACTOR, BUT DO NOT NECESSARILY SHOW ALL DETAILS, OFFSETS, ETC. ALL DRAWINGS ARE TO BE THOROUGHLY INSPECTED. THE CONTRACTOR'S WORK SHALL CONFORM TO THE INFORMATION CONTAINED IN THIS SPECIFICATION AND/OR AS INDICATED IN THE LATEST REVISION OF THE DRAWINGS REFERRED TO THEREIN. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER REGARDING ALL QUESTIONS ON WHICH HE MAY BE IN DOUBT BEFORE PROCEEDING WITH FABRICATION OF PARTS AFFECTED. THE CONTRACTOR SHALL PREPARE ALL ADDITIONAL DETAIL OR FIELD INSTALLATION DRAWINGS NECESSARY AT HIS OWN EXPENSE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS INDICATED ON THE ENGINEER'S LAYOUT DRAWINGS AND DETERMINE IF ANY CHANGES ARE REQUIRED IN PIPING RUNS, DRAINS, ETC., TO AVOID INTERFERENCE. MAJOR CHANGES SHALL NOT BE MADE WITHOUT THE APPROVAL OF THE ENGINEER. WHILE THE DRAWINGS ARE TO BE ADHERED TO AS CLOSELY AS POSSIBLE, THE CONTRACTOR HAS THE RIGHT TO VARY THE RUN OF CONDUITS, PIPING AND/OR DUCTS DURING PROGRESS OF THE WORK AS MAY BE FOUND NECESSARY OR DESIRABLE TO AVOID INTERFERENCES. MAJOR REVISIONS SHALL BE VERIFIED WITH THE ENGINEER.

#### 1.04 VERIFICATION

BEFORE RUNNING ANY PIPING, ETC., WITHIN THE BUILDING, THIS CONTRACTOR SHALL ASSURE HIMSELF THAT THEY CAN BE INSTALLED AS CONTEMPLATED WITHOUT TRAPPING OR INTERFERING WITH COLUMNS, BEAMS, PIPING, FIXTURES, ETC.. ANY NECESSARY MAJOR DEVIATION SHALL BE REFERRED TO THE ENGINEER FOR ADJUSTMENT BEFORE LINES ARE RUN, AT NO INCREASE IN CONTRACT PRICE. OF NECESSITY,

OPENINGS, SUPPORTING STEEL, FIELD-BUILT CURBS, SPACE REQUIREMENTS, ETC., WERE DESIGNED AROUND SPECIFIC PARAMETERS. WHEN THE CONTRACTOR DETERMINES THE MAKE OF EQUIPMENT TO BE PROVIDED FOR THE JOB, IT SHALL BE HIS RESPONSIBILITY TO VERIFY AND COORDINATE UNIT DIMENSIONS WITH THE GENERAL CONTRACTOR AND ALL OTHER INTERESTED CONTRACTORS ON THE JOB. IT SHALL ALSO BECOME THE CONTRACTOR'S RESPONSIBILITY TO CHANGE AS NECESSARY, THROUGH THE ENGINEER, ALL REQUIRED DIMENSIONS SO THAT OPENINGS, SUPPORTING STEEL, CURBS, ELECTRICAL DATA, ETC., WILL FIT THE EQUIPMENT SUPPLIED. ANY ADDITIONAL COST WILL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR. IN ADDITION, ELECTRICAL POWER, INTERLOCK AND CONTROL DIAGRAMS AND PIPING ARRANGEMENTS WERE DESIGNED AROUND ONE SPECIFIC MANUFACTURER. IF ADDITIONAL WRING, PIPING CONTROLS, ETC., IS REQUIRED FOR OTHER EQUIPMENT, THIS CONTRACTOR SHALL INCLUDE THE COST OF THE SAME IN HIS PRICE. DIMENSIONS, ELEVATIONS AND RELATIVE LOCATIONS OF EXISTING EQUIPMENT, SEWERS, PIPES, DUCTS, CONDUITS, ETC., IN PLACE AS SHOWN ON THE DRAWINGS, ARE TAKEN FROM AS-BUILT AND RECORD DRAWINGS AND ARE DEEMED RELIABLE ONLY INsofar AS GENERAL LAYOUT IS CONCERNED. SUCH DIMENSIONS SHALL NOT BE USED FOR LAYOUT DRAWINGS OR DETAILING OF COMPONENTS. THE RESPONSIBILITY FOR CHECKING IN PLACE ITEMS WILL BE THE CONTRACTOR'S. ALL MEASUREMENTS, THE EXACT DETERMINATION OF RELATIVE ELEVATIONS OR LOCATIONS, THE ASCERTAINING OF ACCURACY OF ALL GIVEN ELEVATIONS AND DIMENSIONS AND THE OBTAINING OF ALL NECESSARY ADDITIONAL INFORMATION TO INSURE THE PROPER FIT AND COORDINATION OF ALL CONDUIT EQUIPMENT, DUCTS, AND PIPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

#### 1.05 CONNECTIONS TO EXISTING WORK

PLAN THE INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH THE REGULAR OPERATION OF THE EXISTING FACILITIES. SUBMIT TO THE ARCHITECT, FOR HIS APPROVAL, A PROGRESS SCHEDULE INDICATING ALL NECESSARY TEMPORARY SHUTDOWNS OF EXISTING SERVICES. ALL SHUTDOWNS SHALL BE MADE AT SUCH TIMES AS WILL NOT INTERFERE WITH REGULAR OPERATION OF THE EXISTING FACILITIES AND ONLY AFTER WRITTEN APPROVAL FROM THE ARCHITECT.

#### 1.06 NEW WORK

UNLESS OTHERWISE NOTED, ALL WORK INDICATED THROUGHOUT THESE DRAWINGS SHALL BE CONSIDERED TO BE NEW WORK AND SHALL BE INCLUDED AS AN INTEGRAL PART OF THIS CONTRACT.

#### 1.07 REFERENCED STANDARDS

2021 MICHIGAN PLUMBING CODE  
2021 MICHIGAN BUILDING CODE  
2021 MICHIGAN ENERGY CODE

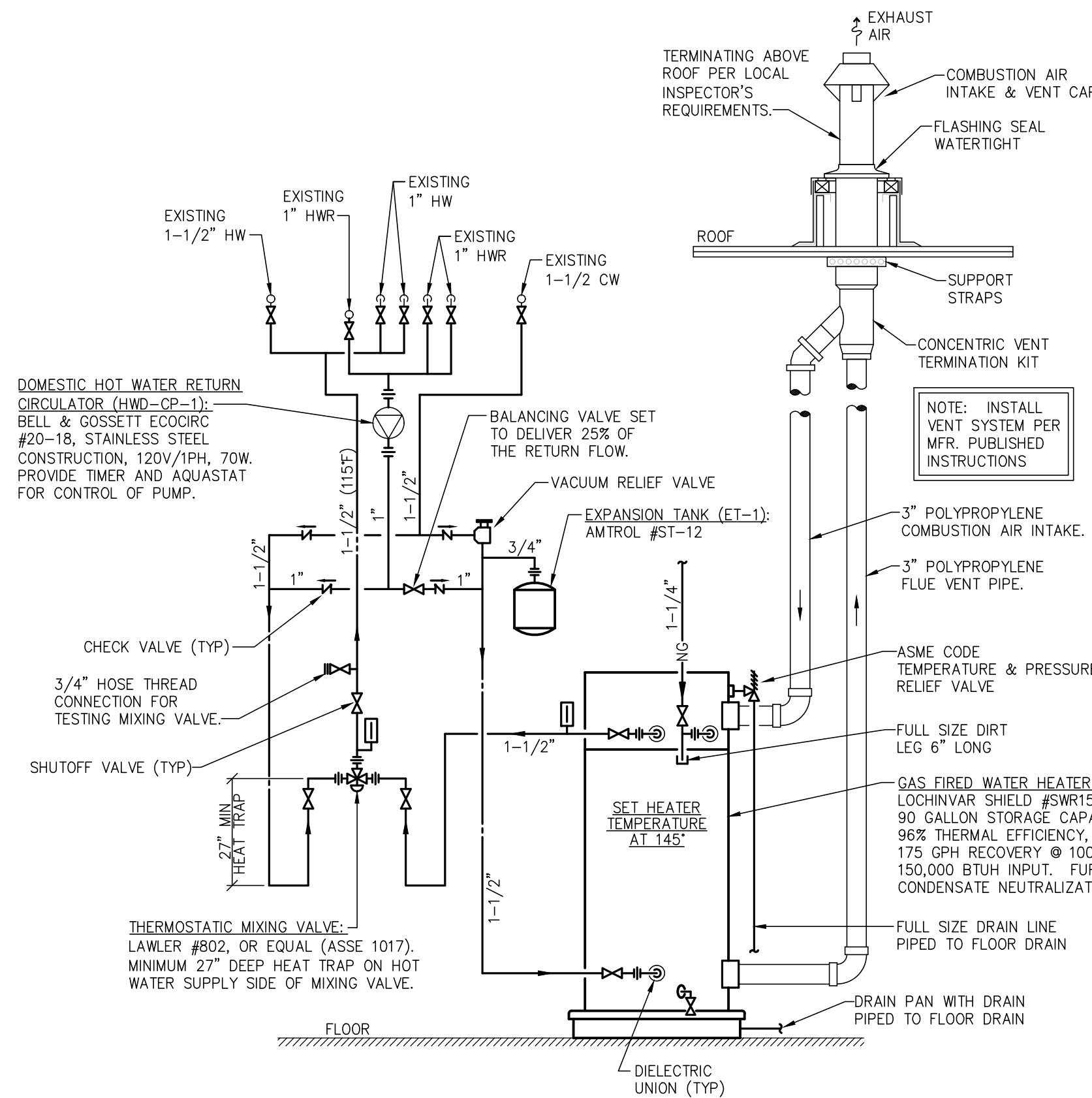
#### 1.08 ALTERNATES

- REQUIREMENTS:
  - SUBMIT ALTERNATE WITH A FULL DESCRIPTION OF THE PROPOSED ALTERNATE AND THE EFFECT ON ADJACENT OR RELATED COMPONENTS.
  - ALTERNATE QUOTED ON BID FORMS WILL BE REVIEWED AND ACCEPTED AT THE OWNER'S OPTION. ACCEPTED ALTERNATE WILL BE IDENTIFIED IN THE OWNER-CONTRACTOR AGREEMENT.
  - COORDINATE AND MODIFY AS NECESSARY RELATED WORK IN ORDER TO INTEGRATE THE WORK OF EACH ALTERNATE.
- ALTERNATE HWD-P-1:
  - STATE THE AMOUNT TO BE ADDED TO THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF GAS-FIRED DOMESTIC WATER HEATER HWD-DWH-1, IN LIEU OF INDIRECT DOMESTIC WATER HEATER HWD-IWH-1. REFER TO DETAILS 'A' AND 'B' ON THIS SHEET FOR COMPLETE SCOPE AND ADDITIONAL INFORMATION.

### PART 2 EXECUTION

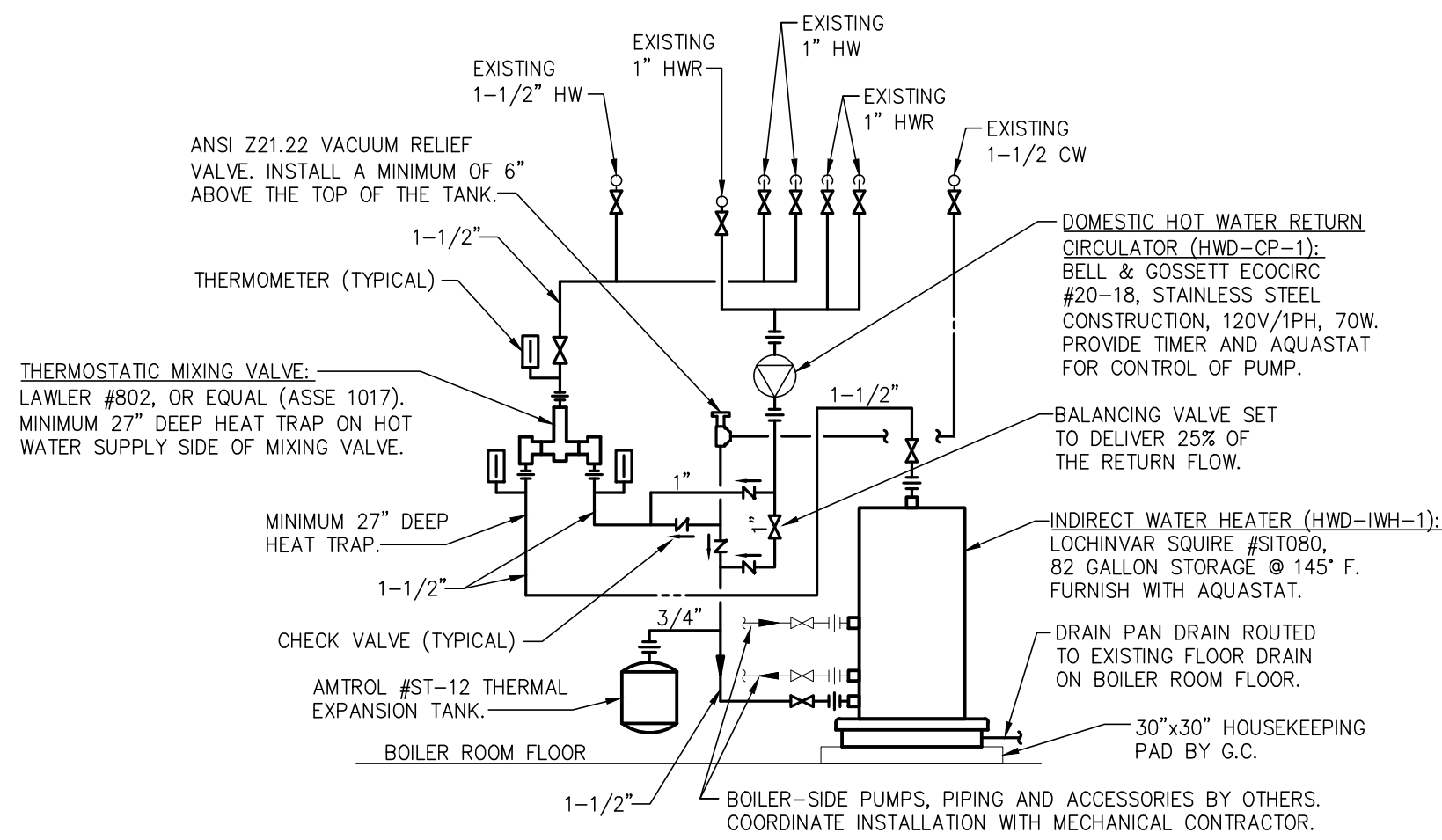
- ALL EQUIPMENT INSTALLATION PROCEDURES SHALL BE BASED ON FUNDAMENTAL ENGINEERING AND CONSTRUCTION PRINCIPLES IN CONFORMANCE WITH ALL APPLICABLE CODES, STANDARDS AND ORDINANCES.
- THE PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING EQUIPMENT IN CONFORMANCE WITH MANUFACTURER ISSUED INSTRUCTIONS AND RECOMMENDATIONS.
- THE PLUMBING CONTRACTOR SHALL NOT KNOWINGLY INSTALL WORK THAT IS IN ERROR.
- PROVIDE TWO (2) YEAR WARRANTY ON ALL LABOR AND MATERIALS UNLESS NOTED OTHERWISE.
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES REQUIRED FOR HIS WORK.
- THE PLUMBING CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF HIS COMPLETED WORK.
- THE SYSTEMS REPRESENTED IN THESE CONTRACT DOCUMENTS HAVE THE INTENT OF PROVIDING ENERGY-EFFICIENT, SAFETY AND COMFORT FOR THE PROPOSED FACILITY.
- THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES ON THE PROJECT.
- COORDINATE ALL PIPING TO AVOID REQUIRED OVERHEAD CLEARANCES PERTAINING TO ELECTRICAL PANELS AND EQUIPMENT.
- ALL MATERIALS AND EQUIPMENT INSTALLED SHALL FULLY COMPLY WITH THE SAFE DRINKING WATER ACT OF 1974, INCLUDING PUBLIC LAW 111-380, COMMONLY REFERRED TO AS THE "NO LEAD LAW".
- PROCEDURES FOR FLUSHING AND DISINFECTION
  - PROCEDURES SHALL MEET THE REQUIREMENTS OF AWWA C651 AND C652 AS WELL AS ALL APPLICABLE LOCAL REGULATIONS.
  - DISINFECTION AND FLUSHING SHALL BE COMPLETED WITHIN THREE WEEKS PRIOR TO WHOLE OR PARTIAL BENEFICIAL OCCUPANCY. IF BENEFICIAL OCCUPANCY OF ANY PART OF THE BUILDING IS DELAYED MORE THAN TWO WEEKS BUT LESS THAN FOUR WEEKS AFTER DISINFECTION, FLUSHING OF ALL FIXTURES SHALL AGAIN BE COMPLETED. IF BENEFICIAL OCCUPANCY OF ANY PART OF THE BUILDING IS DELAYED FOUR WEEKS OR MORE AFTER DISINFECTION, THE NEED FOR DISINFECTION AND FLUSHING SHALL BE DETERMINED BY A RISK ASSESSMENT CONDUCTED BY THE WATER PROGRAM TEAM / OWNER.
  - CONFIRMATION THAT THE BUILDING WATER SYSTEM PERFORMANCE MEETS DESIGN PERFORMANCE PARAMETERS INDICATED IN THE CONTRACT DOCUMENTS.
- PIPING SHALL BE SUPPORTED AT THE FOLLOWING MAXIMUM INTERVAL SPACING:

MATERIAL	HORIZ. (FT.)	VERT. (FT.)
CAST IRON	5	15
CAST IRON (10 FT. LENGTHS)	10	15
COPPER PIPE	12	10
PVC	4	10
STEEL	12	15



**B** GAS-FIRED DOMESTIC WATER HEATER DETAIL (HWD-DWH-1)  
P1.01 SCALE: NONE

(ALTERNATE HWD-P-1)



**A** INDIRECT DOMESTIC WATER HEATER DETAIL (HWD-IWH-1)  
P1.01 SCALE: NONE

(BASE BID)

## PLUMBING FIXTURE SCHEDULE

DESCRIPTION	SYMBOL	CW	HW	WASTE	VENT	SPECIFICATIONS
FLOOR DRAIN		FD-1	---	---	4"	ZURN #2550, COATED CAST IRON BODY, BOTTOM OUTLET, 9" MEDIUM DUTY, DURA-COATED CAST IRON SLOTTED GRATE. PROVIDE ZURN #21072 BARRIER TYPE TRAP SEALING DEVICE.
FLOOR DRAIN STRAINER ONLY		FD-2	---	---	---	REPLACE EXISTING FLOOR DRAIN STRAINER WITH DURA-COATED CAST IRON SLOTTED GRATE.

## PLUMBING LEGEND

---	DOMESTIC COLD WATER PIPING (CW)
---	EXISTING DOMESTIC COLD WATER PIPING
---	DOMESTIC HOT WATER PIPING (HW)
---	EXISTING DOMESTIC HOT WATER PIPING
---	DOMESTIC HOT WATER RETURN PIPING (HWR)
---	EXISTING DOMESTIC HOT WATER RETURN PIPING
V	SANITARY VENT PIPING
V	EXISTING SANITARY VENT PIPING
SAN	SANITARY PIPING BELOW FLOOR
SAN	EXISTING SANITARY PIPING BELOW FLOOR
SAN	SANITARY PIPING ABOVE FLOOR
CD	CONDENSATE DRAIN
CD	EXISTING CONDENSATE DRAIN
---	FLOW DIRECTION
---	PIPING DEMOLITION
---	FLOOR CLEANOUT
---	CLEANOUT TO GRADE
---	WALL CLEANOUT
---	ABOVE FINISHED FLOOR
---	FINISHED FLOOR ELEVATION
---	INVERT ELEVATION
---	PLUMBING CONTRACTOR
---	GENERAL CONTRACTOR
---	CONNECTION OF NEW TO EXISTING
---	UNION
---	SHUTOFF VALVE
---	CHECK VALVE
---	3-WAY MIXING VALVE
---	PIPING ELBOW DOWN
---	PIPING ELBOW UP
---	PIPING TEE DOWN
---	PIPING TEE UP



## Mechanical Compliance Certificate

### Project Information

Energy Code:	2021 IECC
Project Title:	Hollywood Elementary School
Location:	Monroe, Michigan
Climate Zone:	5a
Project Type:	Alteration

Construction Site:	Owner/Agent:	Designer/Contractor:
1135 Riverview Avenue Monroe, Michigan 48161	Kohler Architecture Monroe, Michigan 48161 (734) 242-6880	Michael White Kleinfielder Inc. Perrysburg, Ohio 43551 419891 mwhite@kleinfielder.com

### Mechanical Systems List

Quantity	Component	Description
<b>Water Heaters</b>		
1	Domestic Water Heater HWD-DWH-1:	Gas Storage Water Heater, Capacity: 90 gallons, Input Rating: 150 kBtu/h w/ Circulation Pump Proposed Efficiency: 96.00 % Et, Required Efficiency: 80.00 % Et

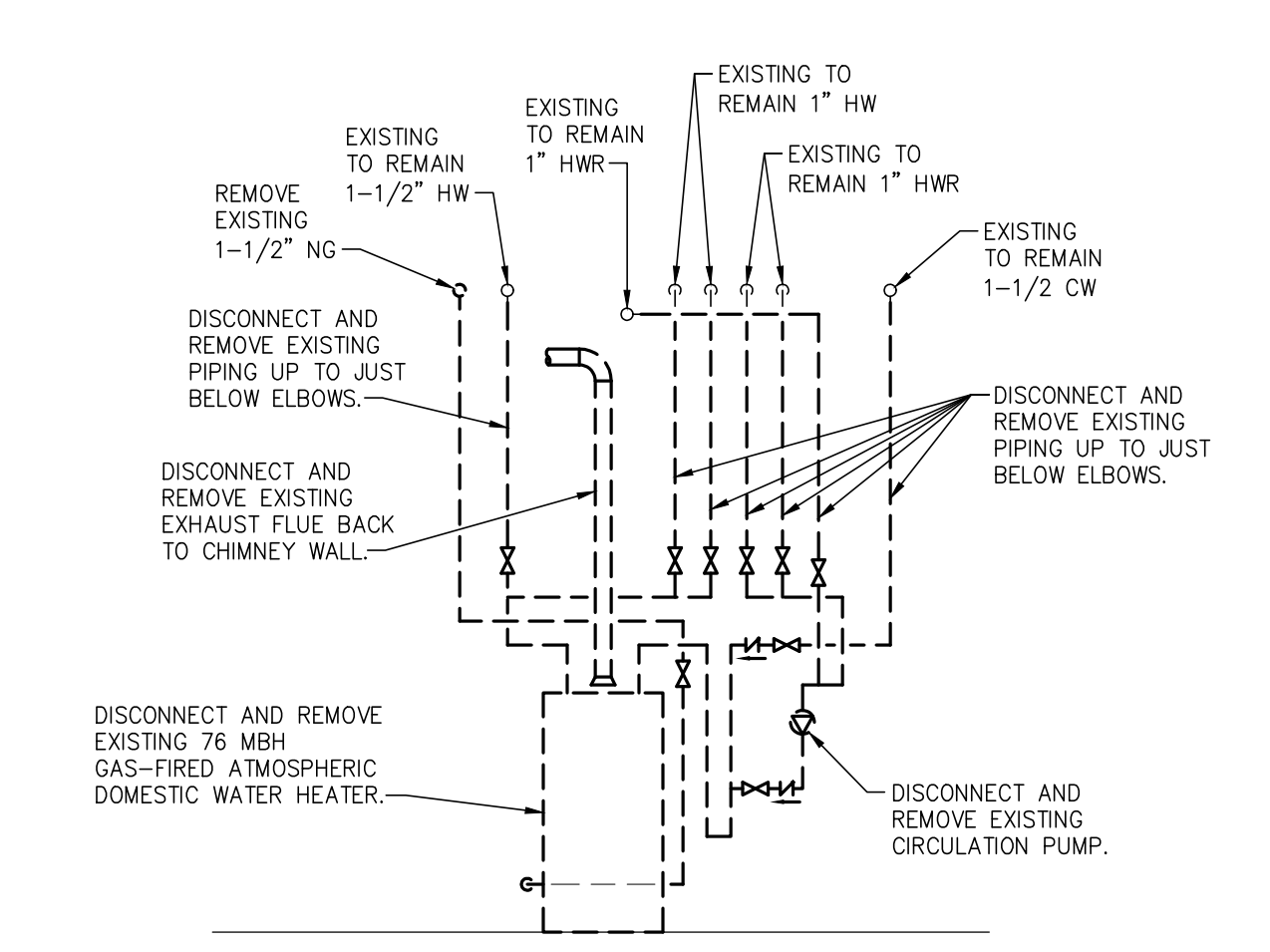
### Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Michael P. White - Plumbing Designer 02/05/2026

Name - Title Signature Date

Report Title: Hollywood Elementary School Report Date: 2/5/26, 3:02 PM 2 of 6



EXISTING DOMESTIC WATER HEATER DEMOLITION DETAIL  
SCALE: NONE

## PLUMBING DRAWING LIST

DWG NO.	TITLE	FILE NO.
P1.01	PLUMBING SPECIFICATIONS AND DETAILS	26003132P1.01.dwg
P2.01	PLUMBING PLANS	26003132P2.01.dwg

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED USING A DIGITAL SIGNATURE AND DATE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED, AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

## BOILER REPLACEMENT & RELATED WORK

### HOLLYWOOD ELEMENTARY SCHOOL

1135 RIVERVIEW AVE., MONROE, MICHIGAN 48162

### MONROE PUBLIC SCHOOLS

1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

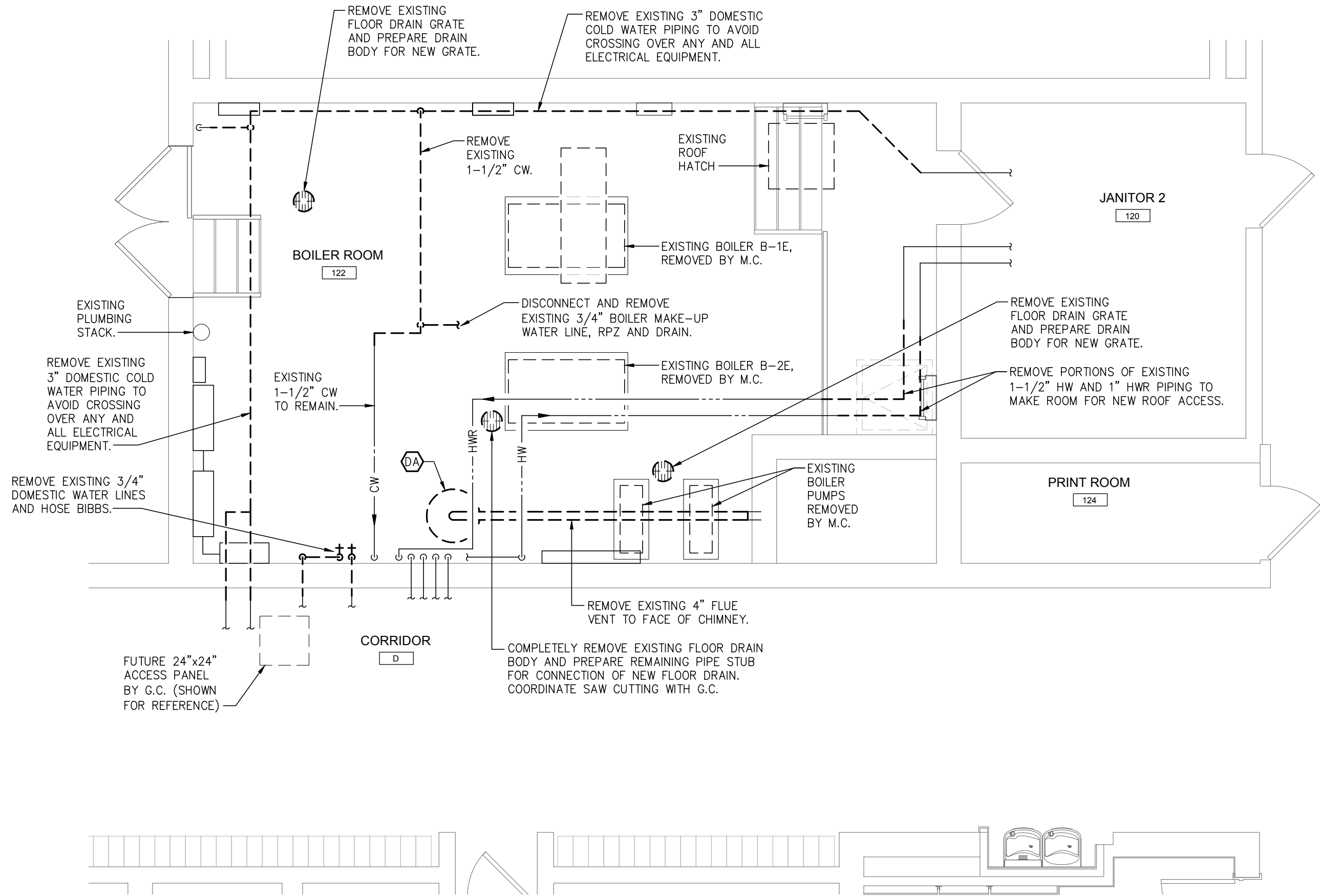
JOB # 26101

PLUMBING  
SPECIFICATIONS  
AND DETAILS

P1.01



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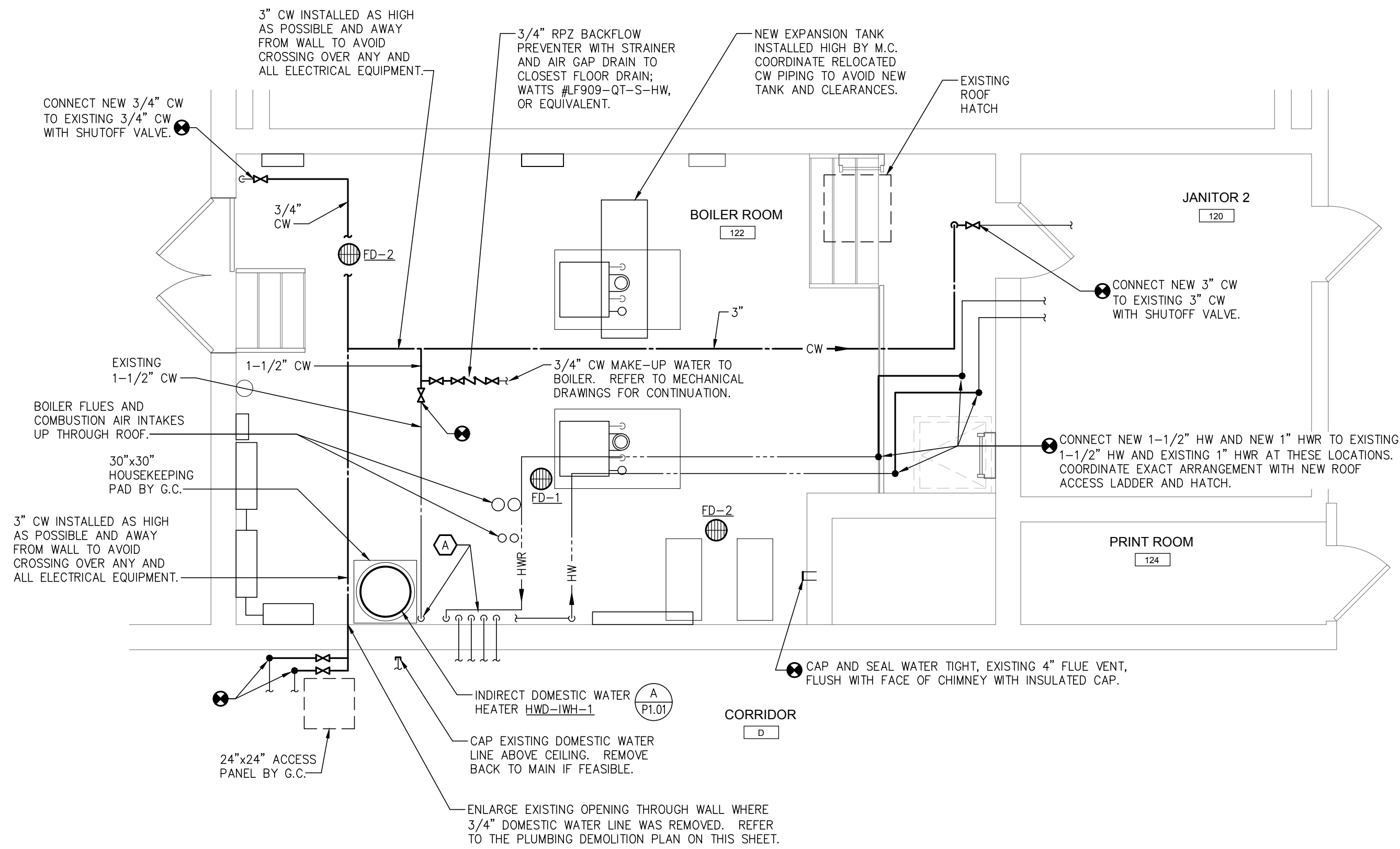


PLUMBING DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"

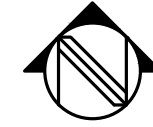


DEMOLITION PLAN NOTES:

- DA DISCONNECT AND REMOVE EXISTING GAS-FIRED, ATMOSPHERICALLY VENTED WATER HEATER.



PLUMBING NEW WORK PLAN (BASE BID)  
SCALE: 1/4" = 1'-0"

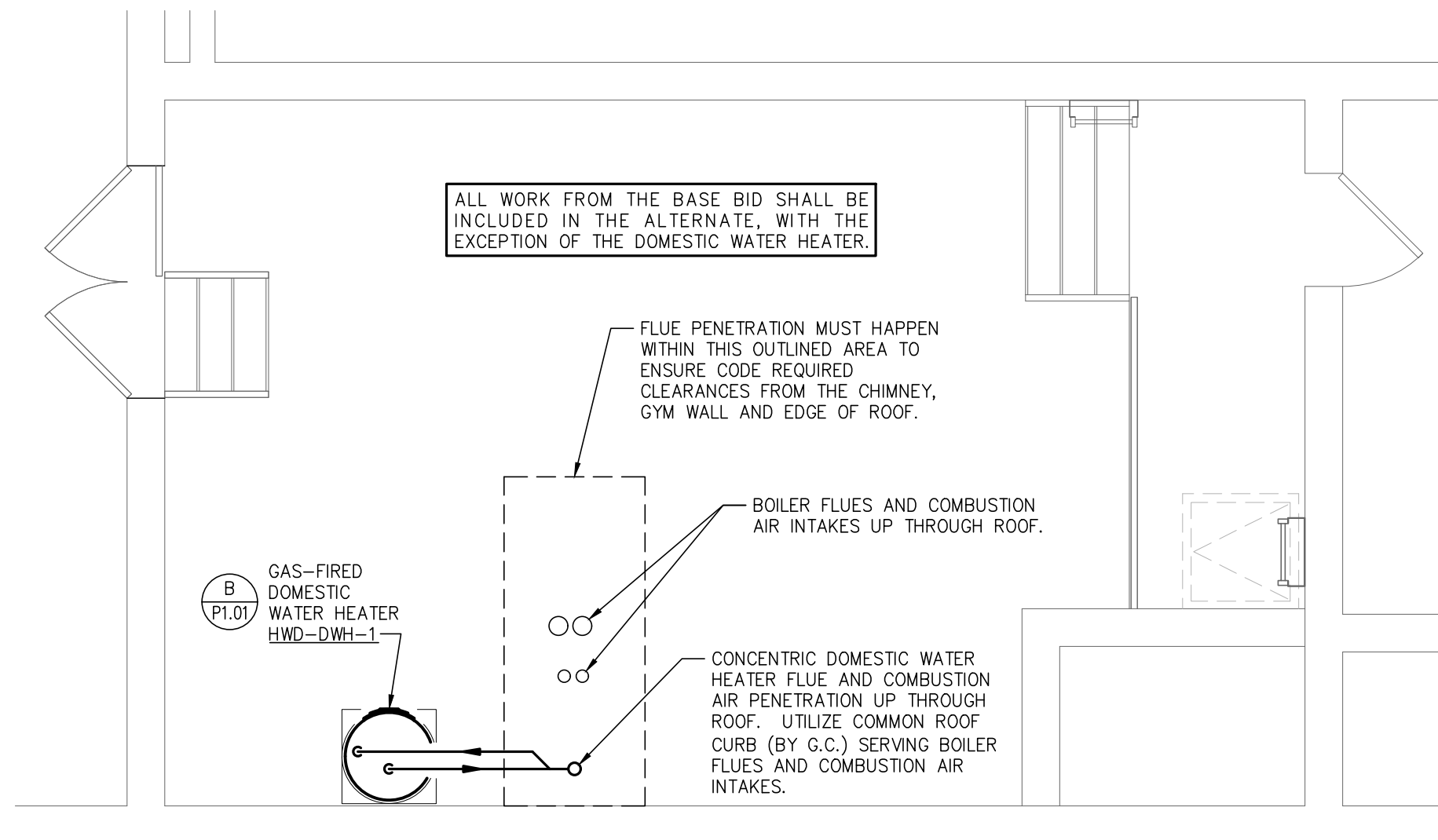


NEW WORK PLAN NOTES:

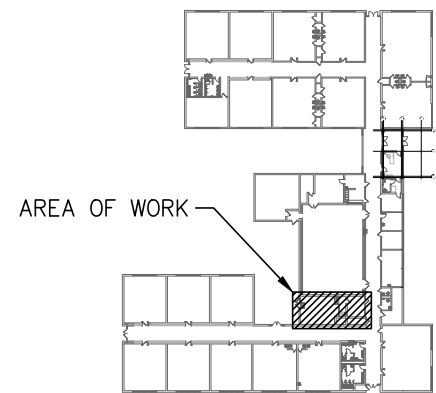
- A RECONNECT CW, HW AND HWR PIPING PER DETAIL A ON THIS SHEET.

GENERAL NOTES:

1. NEW FLOOR DRAIN GRATES SHALL BE REMOVED AND/OR OMITTED UNTIL FLOOR PAINTING IS COMPLETE. PROTECT FLOOR DRAIN BODIES DURING FLOOR PAINTING.
2. PIPE PENETRATIONS THRU ALL FIRE RATED WALLS SHALL BE SEALED BY THE PLUMBING CONTRACTOR, TO PREVENT SPREAD OF FIRE AND SMOKE AND INGRESS OF MOISTURE.
3. PROVIDE ALL HANGERS, SUPPORTS AND MISCELLANEOUS STEEL REQUIRED FOR THE PROPER INSTALLATION OF ALL PIPING AND EQUIPMENT.
4. COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH ALL OTHER TRADES.
5. MAINTAIN REQUIRED MANUFACTURERS' CLEARANCES ON ALL EQUIPMENT.
6. CONTRACTOR SHALL VERIFY CLEARANCES ABOVE CEILING PRIOR TO INITIATING CONSTRUCTION. COORDINATE EXACT LOCATION OF PIPING WITH ELECTRICAL, MECHANICAL AND GENERAL CONTRACTORS.



PLUMBING NEW WORK PLAN (ALTERNATE HWD-P-1)  
SCALE: 1/4" = 1'-0"



KEY PLAN  
NO SCALE



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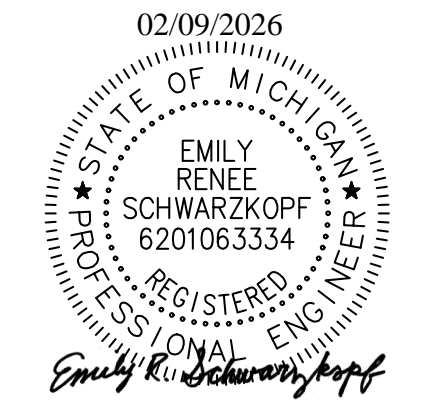
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Perryburg, OH 43551 | 419.352.7537



DATE	DESCRIPTION
02.09.2026	BIDDING & STATE REVIEW

**BOILER REPLACEMENT & RELATED WORK**

**HOLLYWOOD ELEMENTARY SCHOOL**

1135 RIVERVIEW AVE., MONROE, MICHIGAN 48162

**MONROE PUBLIC SCHOOLS**

1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

JOB # 26101

PLUMBING PLANS

**P2.01**





COMcheck Software Version COMcheckWeb  
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC  
Project Title: BOILER REPLACEMENT - HOLLYWOOD ELEM.  
Project Type: Alteration

Construction Site: 1135 RIVERVIEW AVE.  
Monroe, Michigan 48152  
Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Common Space Types:Electrical/Mechanical	527	0.43	227
Total Allowed Watts =			227

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Wattage Per Fixture (C X D)	E Total Watts
Common Space Types: Electrical/Mechanical (527 sq.ft.) LED: TYPE 'A': 4FT. STRIP FIXTURE: Other:	1	6	28	168
Total Proposed Watts =			168	

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Nicolas Bruno - Electrical Designer  
Name - Title Signature Date 02/04/2026

Project Title: BOILER REPLACEMENT - HOLLYWOOD ELEM.  
Data filename: Report date: 02/04/26  
Page 1 of 5

FIXTURE SCHEDULE

MARK	LAMP CATEGORY	LAMP QTY/TYPE	VOLTS	DESCRIPTION	MFR. AND CATALOG SERIES	VA
A	LED	28W 4,014 LUMENS 4000K	120	4" LED STRIP, CHAIN MOUNTED, ROUND SEMI-FROSTED LENS, WHITE STEEL HOUSING, ELECTRIC DRIVER, 0-10V DIMMING, E.C. SHALL CHAIN MOUNT AT A MINIMUM OF 8'-0" A.F.F..	COOPER #4SNLED-LD5-40SL-LN-UNV-LB40-CD-1-AYC-CHAIN/SET REV OR APPROVED EQUAL BY LITHONIA, CREE, ETC.	35
DA	FLUOR	2-40W-R5	120	DISCONNECT AND REMOVE EXISTING 4' SUSPENDED STRIP FIXTURE AND BALLAST. EXISTING BRANCH CIRCUITS SHALL BE REMOVED BACK TO SOURCE.		100
E	LED	INCLUDED	120	COMBINATION EXIT/EGRESS LIGHT, WALL OR CEILING MOUNTED, SINGLE OR DOUBLE FACE AS REQUIRED, 6-INCH GREEN LETTERS IN WHITE STENCIL FACE, POLYCARBONATE HOUSING, ARROWS AS SHOWN, WITH TWO HI-INTENSITY ADJUSTABLE FLOOD LIGHT HEADS, UNIVERSAL MOUNTING CANOPY WITH BUILT-IN 90 MINUTE EXTRA CAPACITY BATTERY BACKUP AND OUTDOOR WEATHER PROOF REMOTE FLOODLIGHT HEAD WHERE SHOWN ON PLAN. M.H. 8'0" UNO	LITHONIA #LHOM LED-G-HO-M6-REV REMOTE HEAD ERE-W-T-SO-SQ-M12 OR APPROVED EQUAL BY PHILLIPS, CREE, ETC.	10
EM	LED	2-5.3W INCLUDED	120	EMERGENCY EGRESS LIGHT, THERMOPLASTIC HOUSING, WHITE FINISH, LITHIUM IRON PHOSPHATE BATTERY, 90 MIN. BATTERY BACK-UP, M.H. 8'0" UNO	LITHONIA #ELMRE-SP1100L-T-REV OR APPROVED EQUAL BY PHILLIPS, CREE, ETC.	10

PROJECT COORDINATION SCOPE:

- FULL COORDINATION BETWEEN ALL TRADES IS REQUIRED TO ENSURE UNINTERRUPTED SYSTEM OPERATION AND CODE COMPLIANCE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FIRE ALARM, SECURITY, AND LOW-VOLTAGE SYSTEM INTERFACES AND SHALL CONTACT AND HIRE THE FOLLOWING VENDORS FOR ALL SYSTEM TIE-INS, TESTING, PROGRAMMING, AND COORDINATION.
- GENERAL TRADES SHALL BE RESPONSIBLE FOR ALL PATCHING, REPAIR, AND RESTORATION OF WALLS, CEILINGS, FLOORS, AND FINISHES IMPACTED BY THE BOILER PROJECT. THIS INCLUDES CUTTING, PATCHING, PAINTING, AND SURFACE RESTORATION NECESSARY TO RETURN AFFECTED AREAS TO EXISTING CONDITIONS. GENERAL TRADES SHALL ALSO PROVIDE CEILING ACCESS POINTS AND ANY OTHER MISCELLANEOUS CONSTRUCTION ITEMS REQUIRED TO SUPPORT THE WORK.
- START UP TESTS, INITIAL SYSTEM PROGRAMMING AND DATA BASE ENTRIES SHALL BE PROVIDED BY RED LETTER & HABITEC SECURITY THROUGH THE ELECTRICAL CONTRACTOR. ALL FUNCTIONS SHALL BE DEMONSTRATED TO THE SATISFACTION OF THE OWNER'S DESIGNATED SYSTEM ADMINISTRATOR. AT PROJECT COMPLETION, RED LETTER & HABITEC SECURITY SHALL PROVIDE A LETTER INDICATING THAT ALL PARTS AND FUNCTIONS ARE OPERATING PROPERLY, TURN OVER TO OWNER ALL SOFTWARE LICENSING, PROVIDE RECOMMENDED MAINTENANCE AND INSPECTION SCHEDULES FOR EACH YEAR OF OPERATION, AND PROVIDE WRITTEN WARRANTY FOR EQUIPMENT AND SYSTEM FUNCTIONALITY FOR A PERIOD OF TWO YEARS. DOOR ACCESS SYSTEM TRAINING FOR THE OWNER SHALL BE PROVIDED.
- CONTACT INFORMATION: **CONTACT AND HIRE RED LETTER (888) 564-5488. CONTACT AND HIRE HABITEC SECURITY, NICK WERT (419) 205-1147.**

ACCESS CONTROLS SYSTEM SCOPE:

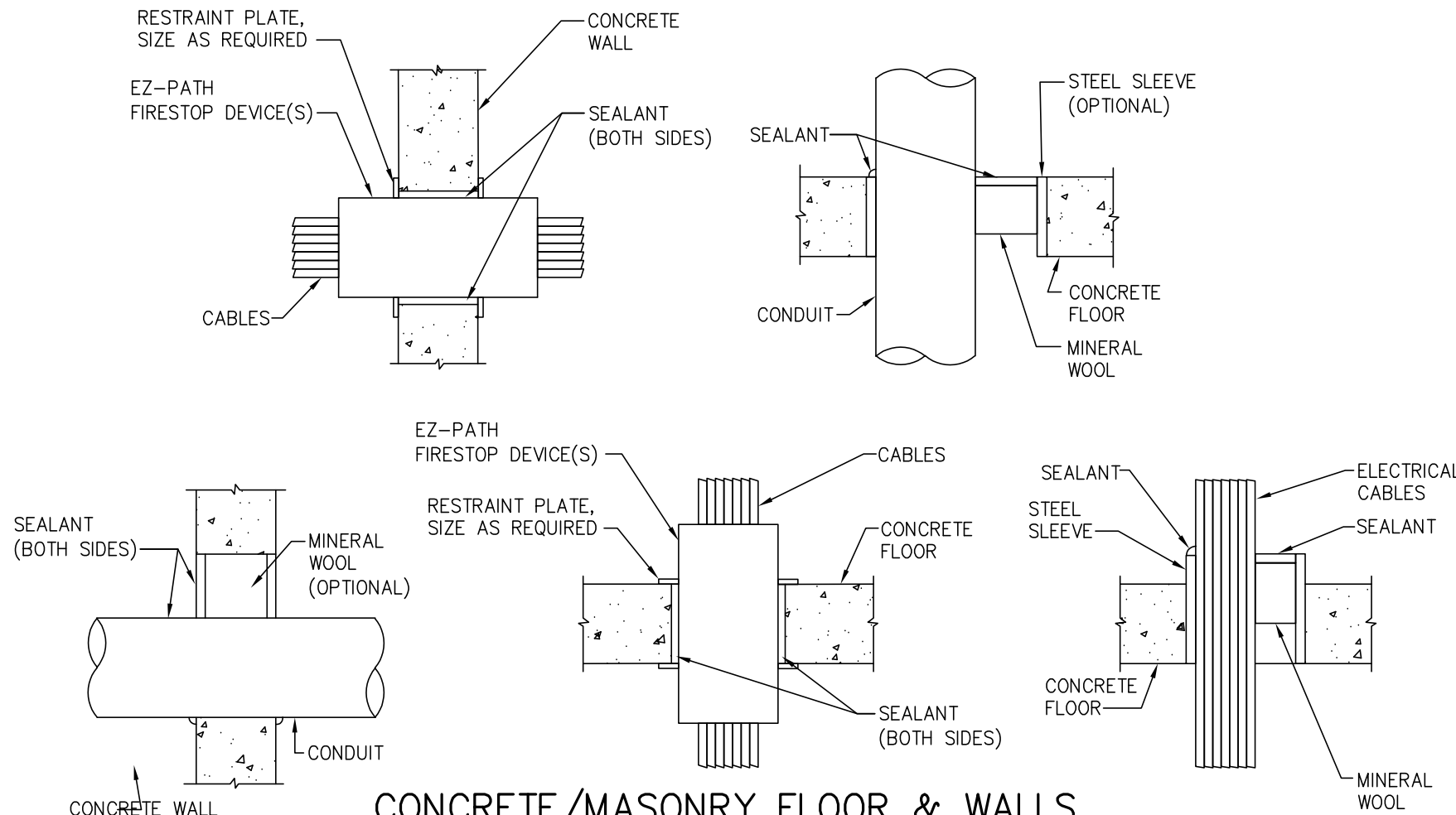
REFERENCE LEGEND FOR MORE INFORMATION TO ACCOMMODATE THE INSTALLATION OF NEW COMPONENTS TO CONNECT TO EXISTING SYSTEMS WITHOUT DISRUPTING THE NEW BUILDING FINISHES. COORDINATE THE EXACT LOCATION OF ITEMS WITH THE OWNER PRIOR TO ROUGH-IN. COMPONENTS SHALL MATCH EXISTING MANUFACTURER.

- ELECTRICAL CONTRACTOR: COORDINATE WITH OWNER'S ACCESS CONTROLS CONTRACTOR (RED LETTER) AND OWNER'S SECURITY CONTRACTOR (HABITEC SECURITY) BEFORE DISCONNECTION OF EXISTING ITEMS NOTED ON PLANS, BOXES, CONDUITS, SURFACE MOUNTED RACEWAY. INSTALL POWER SUPPLIES/ACCESS CONTROLLER, ACCESS HARDWARE, A.D.A. HARDWARE, AND CONNECT TO 120V POWER. **ELECTRICAL CONTRACTOR TO HIRE RED LETTER** TO FURNISH AND INSTALL CARD READERS, FURNISH POWER SUPPLIES/ACCESS CONTROLLER, LOW-VOLTAGE ACCESS CABLEING TO ALL ITEMS, CONNECTION TO EXISTING ACCESS CONTROL SYSTEMS AND FIRE ALARM PANEL OUTPUT FOR AUTOMATIC DOOR UNLOCK CONTROL TO DEDICATED DOORS AND TESTING/PROGRAMMING. **ELECTRICAL CONTRACTOR TO HIRE HABITEC SECURITY** FOR TIE-IN WITH THE EXISTING INTRUSION SYSTEM AND COORDINATION ON CONNECTION TO EXISTING ACCESS CONTROL SYSTEMS AND TESTING/PROGRAMMING.
- GENERAL TRADES: RESPONSIBLE FOR DOORS/FRAMES, FURNISH DOOR/ACCESS HARDWARE, A.D.A. HARDWARE, CEILING ACCESS POINTS, CONSTRUCTION ITEMS, ETC. AND COORDINATION WITH RED LETTER FOR A.D.A. OPERATOR FUNCTION SETTINGS.
- START UP TESTS, INITIAL SYSTEM PROGRAMMING AND DATA BASE ENTRIES SHALL BE PROVIDED BY RED LETTER & HABITEC SECURITY THROUGH THE ELECTRICAL CONTRACTOR. ALL FUNCTIONS SHALL BE DEMONSTRATED TO THE SATISFACTION OF THE OWNER'S DESIGNATED SYSTEM ADMINISTRATOR. AT PROJECT COMPLETION, RED LETTER & HABITEC SECURITY SHALL PROVIDE A LETTER INDICATING THAT ALL PARTS AND FUNCTIONS ARE OPERATING PROPERLY, TURN OVER TO OWNER ALL SOFTWARE LICENSING, PROVIDE RECOMMENDED MAINTENANCE AND INSPECTION SCHEDULES FOR EACH YEAR OF OPERATION, AND PROVIDE WRITTEN WARRANTY FOR EQUIPMENT AND SYSTEM FUNCTIONALITY FOR A PERIOD OF TWO YEARS. DOOR ACCESS SYSTEM TRAINING FOR THE OWNER SHALL BE PROVIDED.
- CONTACT INFORMATION: **CONTACT AND HIRE RED LETTER (888) 564-5488. CONTACT AND HIRE HABITEC SECURITY, NICK WERT (419) 205-1147.**

M.P.S. CABLING STANDARDS

BRAND	PART NUMBER	DESCRIPTION	PURPOSE
ICC	IC1078F6BBL	BLUE CAT6 KEYSTONE	KEYSTONE FOR DATA PORT DEVICES
ICC	IC1078F6RD	YELLOW CAT6 KEYSTONE	KEYSTONE FOR MISC. DATA PORT
ICC	IC1078F6YL	RED CAT6 KEYSTONE	KEYSTONE FOR AI PHONE SERVICES
ICC	IC1078F6ABL	BLUE CAT6A KEYSTONE	KEYSTONE FOR DATA PORT DEVICES
ICC		CLASSIC CONFIGURABLE FACEPLATES WITH STATION ID (IVORY)	WALL PLATES FOR DATA PORTS
ICC	ICMP448C61	48 PORT HIGH-DENSITY PATCH PANEL, FEED THROUGH COUPLERS	PATCH BAY FOR DATA PORTS IN DATA CABINET
		LIGHT BLUE CABLING FIBEROPTIC MULTIMODE	FIBER OPTIC NETWORK SERVICES
		DARK GRAY CABLING	16-GAUGE CABLING FOR HABITEC SECURITY
		RED CABLING	CABLING FOR FIRE ALARM
		WHITE CABLING	CABLING FOR ACCESS CONTROL
		BEIGE CABLING	CABLING FOR HVAC / BOILER SERVICES
		CAT 6 550 MHZ PLENUM YELLOW	DATA CABLE FOR ALL CAT6 PORTS
		CAT5E 350 MHZ PLENUM BLUE	DATA CABLE FOR ALL PORTS TELCO DEVICES
		CAT 6A 23 AWG. 4 PAIR SOLID RISER WHITE	
		CAT6A PATCH CABLE - 1FT (RED, BLUE, YELLOW)	PATCH CABLE FOR PORTS WITH DATA CABINET

- ALL CABLING INSTALLED MUST BE OF CMP (PLENUM) GRADE. THIS IS TO KEEP WITH STANDARDS IN PLACE WITH DISTRICT-WIDE CABLING.
- ALL DATA CABLING INSTALLED MUST BE CERTIFIED, TESTED AND CERTIFICATION PROVIDED TO OWNER AT THE END OF THE PROJECT.
- ALL DATA CABLING MUST BE LABELED IN ACCORDANCE TO THE DISTRICT STANDARD (RACK LETTER + PORT NUMBER).
- CONTRACTOR SHALL COORDINATE WITH ALL M.P.S. DISTRICT I.T. STANDARDS FOR BRAND, TYPE, PART NUMBER, ETC.

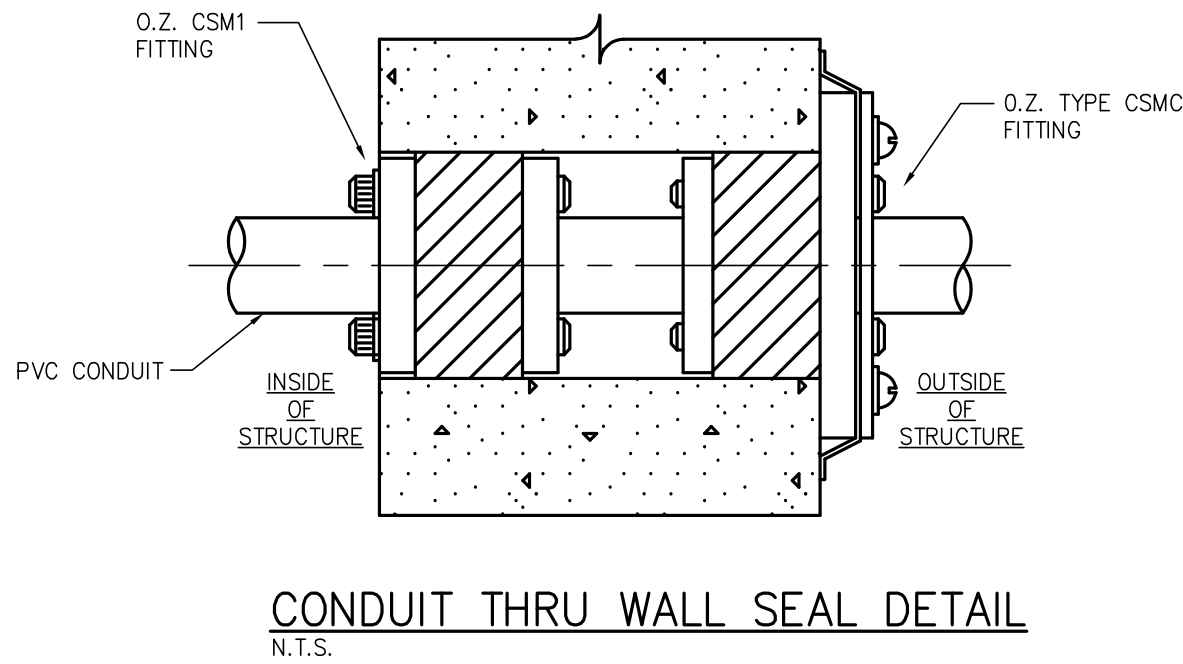


CONCRETE/MASONRY FLOOR & WALLS

CONDUIT/CABLE PENETRATIONS THROUGH RATED ASSEMBLIES  
N.T.S.

GENERAL NOTES

- CABLE AND CONDUIT PENETRATION DETAILS ARE BASED ON A U.L. LISTED FIRE RATED ASSEMBLY (MINIMUM) UTILIZING STI FIRE STOP PRODUCTS. MANUFACTURERS SHALL BE STI, HILTI, 3M OR APPROVED EQUAL. REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION DETAILS FOR EXACT INSTALLATION METHODS.
- PACKING AND SEALANT DEPTHS SHALL BE PER MANUFACTURER'S SPECIFICATIONS FOR U.L. ASSEMBLY RATING COMPLIANCE.
- ALL FIRE STOP LOCATIONS SHALL BE LABELED AT POINT OF PENETRATION. LABEL SHALL IDENTIFY FIRE STOPPING MATERIAL, U.L. LISTING NUMBER AND HOUR RATING OF WALL/FLOOR



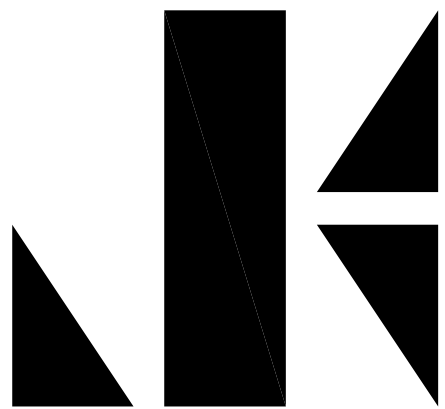
Nicole L. Winhoven-Kamm

Digitally signed by Nicole L. Winhoven-Kamm  
DN: C=US, E=nkamm@kleinfelder.com, O=Kleinfelder, OU=Kleinfelder, CN=Nicole L. Winhoven-Kamm  
Date: 2026.02.05 11:29:45-05'00'

ELECTRICAL DRAWING LIST

DWG NO.	TITLE	FILE NO.
E1.01	ELECTRICAL FIXTURE SCHEDULE, DETAILS AND CODE COMPLIANCE	26003132E1.01.dwg
E1.02	ELECTRICAL LEGEND AND SINGLE-LINE	26003132E1.02.dwg
E1.03	ELECTRICAL PANEL SCHEDULES	26003132E1.03.dwg
E3.01	BOILER ROOM LIGHTING AND POWER PLANS	26003132E3.01.dwg

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BOILER REPLACEMENT & RELATED WORK

HOLLYWOOD ELEMENTARY SCHOOL

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MONROE PUBLIC SCHOOLS

1275 N. MACOMB STREET, MONROE, MICHIGAN 48162

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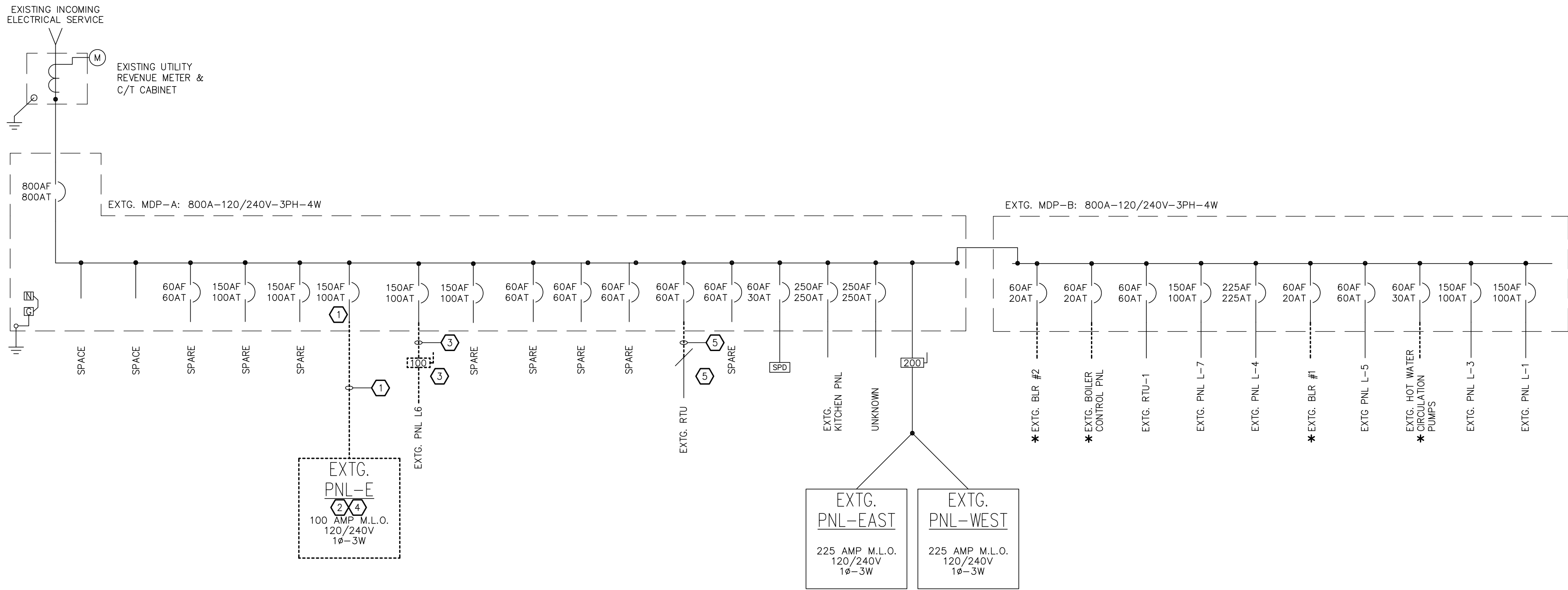
FOR

JOB # 26101

ELECTRICAL FIXTURE  
SCHEDULE, DETAILS  
AND CODE COMPLIANCE

**E1.01**



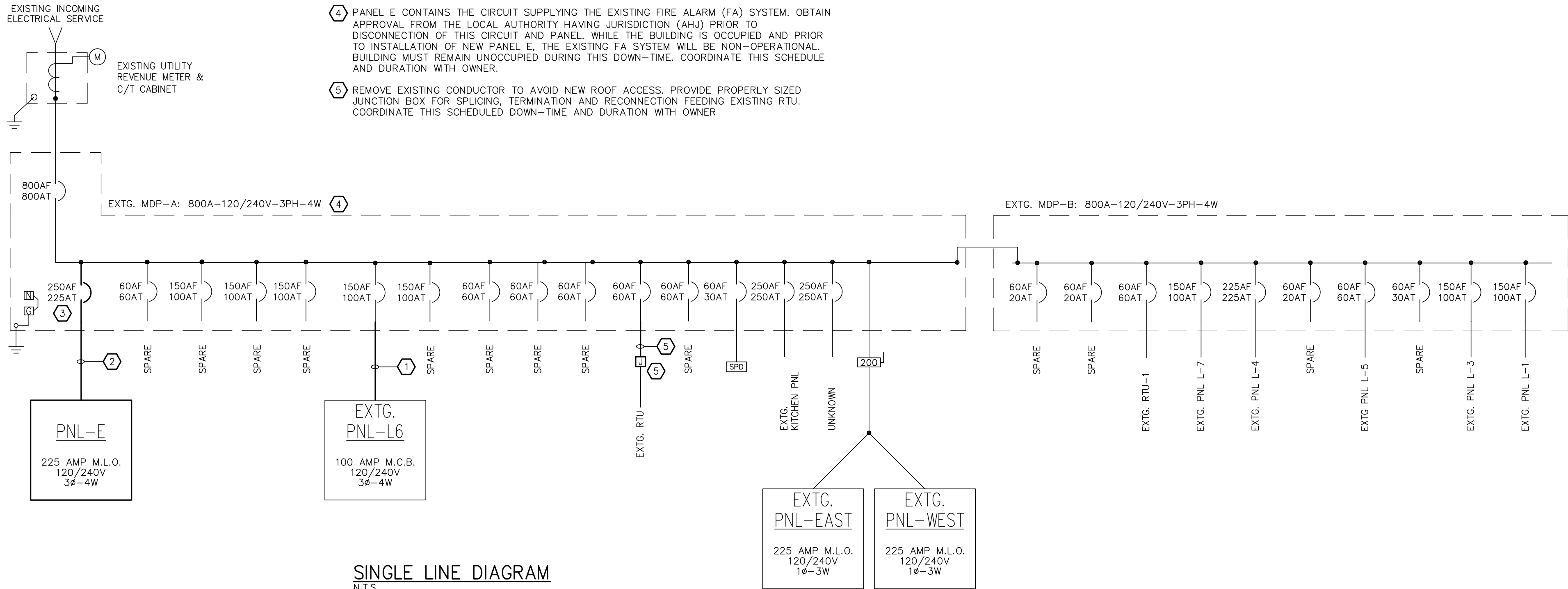


### SINGLE LINE DIAGRAM – DEMO

N.T.S.

#### SINGLE-LINE NOTES

- 1 REMOVE EXISTING ITEM INCLUDING ASSOCIATED CONDUIT AND WIRING NO LONGER IN SERVICE. EXISTING BREAKER SHALL BE REMAIN AND BECOME A SPARE.
- 2 REMOVE EXISTING PANEL E, RE-WORK AND RE-USE ALL EXISTING FEEDERS AND BRANCH CONDUCTORS. VERIFYING CONDUCTOR INTEGRITY AND AMPACITY, PROVIDE PROPERLY SIZED JUNCTION BOXES FOR SPLICING, TERMINATION, AND RECONNECTION. COORDINATE ALL CONNECTIONS WITH NEW PANEL SCHEDULE. REFERENCE SHEET E3.01 FOR EXACT PANEL LOCATION AND WIRING DETAILS.
- 3 REMOVE EXISTING DISCONNECT, ASSOCIATED CONDUIT, AND WIRING NO LONGER IN SERVICE. EXISTING BREAKER SHALL BE REMAIN FOR RE-USE.
- 4 PANEL E CONTAINS THE CIRCUIT SUPPLYING THE EXISTING FIRE ALARM (FA) SYSTEM. OBTAIN APPROVAL FROM THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) PRIOR TO DISCONNECTION OF THIS CIRCUIT AND PANEL. WHILE THE BUILDING IS OCCUPIED AND PRIOR TO INSTALLATION OF NEW PANEL E, THE EXISTING FA SYSTEM WILL BE NON-OPERATIONAL. BUILDING MUST REMAIN UNOCCUPIED DURING THIS DOWN-TIME. COORDINATE THIS SCHEDULE AND DURATION WITH OWNER.
- 5 REMOVE EXISTING CONDUCTOR TO AVOID NEW ROOF ACCESS. PROVIDE PROPERLY SIZED JUNCTION BOX FOR SPLICING, TERMINATION AND RECONNECTION FEEDING EXISTING RTU. COORDINATE THIS SCHEDULED DOWN-TIME AND DURATION WITH OWNER



### SINGLE LINE DIAGRAM

N.T.S.

#### SINGLE-LINE NOTES

- 1 #42 + #8G - 1.5°C - ROUTE CONDUIT ALONG THE BOILER ROOM STRUCTURE, AND PENETRATE THROUGH JANITOR ROOM 120, AVOIDING THE NEW ROOF ACCESS. MATCH THE EXISTING ROUTING WHERE POSSIBLE, AVOIDING THE NEW ROOF ACCESS.
- 2 #4#/0 + 1#4G - 2.5°C
- 3 PROVIDE CIRCUIT BREAKER TO MATCH EXISTING IN AVAILABLE SPACES. NEW BREAKERS TO MATCH EXISTING IN TYPE, STYLE, MANUFACTURER, AND AIC RATING. (SQUARE D - JG250)
- 4 UPDATE PANEL DIRECTORY AT COMPLETION OF PROJECT.
- 5 #46 + #10G - 1°C - INTERCEPT AND REWORK THE EXISTING CONDUIT AND CONDUCTOR TO AVOID THE NEW ROOF ACCESS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SPLICE BOX LOCATED IN JANITOR ROOM 120 AND SIZE IN ACCORDANCE WITH NEC 314.28. ROUTE CONDUIT ALONG THE BOILER ROOM STRUCTURE AND PENETRATE THROUGH JANITOR ROOM 120, AVOIDING THE NEW ROOF ACCESS. MATCH EXISTING ROUTING WHERE POSSIBLE, AVOIDING THE NEW ROOF ACCESS.

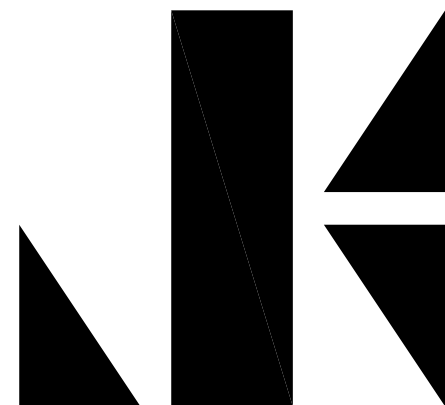
"EXTG. 800A SERVICE" LOAD SUMMARY				
LOAD TYPE		CONNECTED VA	DEMAND FACTOR	DEMAND VA
EXISTING LOAD **	NEC 220.87	54167	125.00%	67709
REMOVED LOADS		-8730	100%	-8730
HVAC EQUIPMENT	NEC 220.60	18339	100%	18339
DEDICATED LOADS	NEC 220.14A	456	100%	456
LIGHTING LOAD	NEC 230.42	240	100%	240
TOTAL LOAD IN VA		64472		78014
TOTAL AMPS @ 240VOLT-3PHASE		155		188

\*\* EXISTING LOAD CONSIST OF HIGHEST ELECTRICAL DEMAND RECORDED IN FEBRUARY 2025 PLUS NEC 220.87 OF 125%.

BRANCH CIRCUIT CONDUCTOR SIZING CHART		
MAX. CIRCUIT LENGTH TO FARTHEST OUTLET	CIRCUIT VOLTAGE	MINIMUM BRANCH CIRCUIT SIZE.
100 FEET	120	#12 AWG
165 FEET	120	#10 AWG
265 FEET	120	#8 AWG
400 FEET	120	#6 AWG
250 FEET	277	#12 AWG
400 FEET	277	#10 AWG
550 FEET	277	#8 AWG
750 FEET	277	#6 AWG

ELECTRICAL LEGEND	
ABBREVIATIONS	CCT E.C. EXTG. F.B.O. G.C. HP L.D. MAX M.C. MH MIN N/L OREQ REV R/M R/L UNO W/ WG WP
	CIRCUIT (SUB) CONTRACTOR EXISTING FURNISHED BY OTHERS, INSTALLED AND/OR WIRED BY ELECTRICAL CONTRACTOR GENERAL (SUB) CONTRACTOR HORSEPOWER LOCATE AS DIRECTED MAXIMUM MECHANICAL (HVAC, PLBG, FP, OR TC) (SUB) CONTRACTOR MOUNTING HEIGHT TO BOTTOM OF DEVICE, BOX, OR FIXTURE, UNO MINIMUM NIGHT LIGHT, UNSWITCHED CIRCUIT OR EQUAL REVIEW REMOVE RELOCATE/RELOCATED UNLESS NOTED OTHERWISE COMPLETE WITH WITH WIRE GUARD WEATHERPROOF DEVICE, ENCLOSURE OR COVER PLATE.
XX.XXX	INDICATES MAXIMUM RMS SHORT CIRCUIT FAULT AT NOTED BUS PER ENGINEER'S CALCULATIONS VIA ASSUMPTIONS ON UTILITY FAULT INFORMATION.
2	INDICATES NOTE-SEE TABULATION ON SAME SHEET
LAMP STRIP	SINGLE LAMP STRIP-SEE SCHEDULE-SHOWN TO SCALE (APPROX.)
EMERGENCY	EMERGENCY EGRESS OR COMBINATION EXIT EGRESS LIGHT-SEE SCHEDULE
LOCAL SWITCH	LOCAL SWITCH-1 POLE-20A-120/277V-W/STAINLESS STEEL C.P. - M.H. 44" HUBBELL #CSB120W OREQ.
DUPLEX	DUPLEX GFCI AND TAMPER RESISTANCE RECEPT-15A-125V-NEMA 5-15R W/STAINLESS STEEL C.P. - M.H. 16" IN READILY ACCESSIBLE LOCATION. HUBBELL #GTRST15BK OREQ.
VARIABLE SPEED DRIVE	VARIABLE SPEED DRIVE W/DISCONNECT AND FUSES-FURNISHED AND INSTALLED BY OTHERS. POWER WIRING BY E.C. PER SUPPLIERS WIRING DIAGRAMS. VFD LINE AND LOAD CONDUCTORS SHALL NOT BE ROUTED IN THE SAME RACEWAY. PROVIDE NEW ENGRAVED LABEL AT VFD TO MATCH MOTOR AND PANEL LABELING. COORDINATE FINAL VFD LOCATION IN FIELD.
FUSED SAFETY SWITCH	FUSED SAFETY SWITCH-AMP SIZE AS NOTED-VOLTAGE AS REQD-NEMA 1 ENCLOSURE U.N.O.-MH 60" TO TOP UNO (NF=NON-FUSED; JR=NEMA 3R ENCL; GK=NEMA 12 GASKETED ENCL; 4X=NEMA 4X STAINLESS STEEL ENCL)
DISCONNECT SWITCH	DISCONNECT SWITCH-HP RATED-TOGGLE TYPE-70 AMP-1 TO 3 POLES AS REQUIRED FOR EOP-60 VOLT-NEMA 1 ENCLOSURE U.N.O.-LOCATE ADJACENT TO EQUIPMENT SERVED. (WP=WEATHERPROOF ENCLOSURE) SQUARE D CLASS 2510 SERIES OREQ
MOTOR	MOTOR-FRACTIONAL H.P.-120 VOLT (EF=EXH. FAN; UH=UNIT HEATER; MD=MOTORIZED DAMPER) MOTOR-SIZE AND FUNCTION AS NOTED-3 PHASE
PRE-WIRED CONTROL PANEL	PRE-WIRED CONTROL PANEL WITH MAGNETIC STARTERS, CONTACTORS, ETC., PROVIDED WITH EQUIPMENT. WITH OR WITHOUT DISCONNECT AS SHOWN. POWER FEED WIRING BY E.C.
SECURITY SYSTEM CARD/FOB READER/KEYPAD OR ENTRY CONTROL STATION	SECURITY SYSTEM CARD/FOB READER/KEYPAD OR ENTRY CONTROL STATION-SHALL BE FURNISHED BY GENERAL TRADES. ONE GANG BOX, MH 44" UNO ON PLANS, WITH 3/4" CONDUIT STUB TO ABOVE ACCESSIBLE CEILING OR TO STRUCTURE BY ELECTRICAL CONTRACTOR. HARDWARE INSTALLATION AND WIRING SHALL BE BY ACCESS CONTROL SUPPLIER.
ELECTRIC DOOR LOCK OR LATCH RELEASE-FLUSH IN DOOR FRAME	ELECTRIC DOOR LOCK OR LATCH RELEASE-FLUSH IN DOOR FRAME-SHALL BE FURNISHED BY GENERAL TRADES. 3/4" CONDUIT STUB TO ABOVE ACCESSIBLE CEILING OR TO STRUCTURE BY ELECTRICAL CONTRACTOR. HARDWARE INSTALLATION AND WIRING SHALL BE BY ACCESS CONTROL SUPPLIER.
SECURITY SYSTEM MAGNETIC DOOR CONTACT/SWITCH-FLUSH MOUNTED IN DOOR FRAME	SECURITY SYSTEM MAGNETIC DOOR CONTACT/SWITCH-FLUSH MOUNTED IN DOOR FRAME-SHALL BE FURNISHED BY GENERAL TRADES. 3/4" CONDUIT STUB TO ABOVE ACCESSIBLE CEILING OR TO STRUCTURE BY ELECTRICAL CONTRACTOR. HARDWARE INSTALLATION AND WIRING SHALL BE BY ACCESS CONTROL SUPPLIER.
WIRE TICKS	WIRE TICKS INDICATE BRANCH CIRCUIT PHASE, NEUTRAL, & GROUND WIRES, RESPECTIVELY CONDUIT-CONCEALED IN CEILING, WALL OR FLOOR OF NEW CONSTRUCTION. CONCEALED WHEREVER POSSIBLE IN EXISTING CONSTRUCTION (1/2" DIA. MIN.)
HOMERUN	HOMERUN TO PANEL OR LOCATION NOTED
INDICATES CONCEALED CONDUIT UNDERGROUND/UNDERFLOOR	INDICATES CONCEALED CONDUIT UNDERGROUND/UNDERFLOOR - 3/4" MIN.
SURFACE MOUNTED RACEWAY-W/MATCHING FITTINGS, BOXES, ACCESSORIES, ETC.	SURFACE MOUNTED RACEWAY-W/MATCHING FITTINGS, BOXES, ACCESSORIES, ETC. WIREMOLD #4700 SERIES, HUBBELL #HBL75010W SERIES OREQ
INDICATES LOW VOLT CABLING ROUTED THRU PLENUM OR CEILING SPACE.	INDICATES LOW VOLT CABLING ROUTED THRU PLENUM OR CEILING SPACE.
WORKING CLEARANCE AREA	WORKING CLEARANCE AREA PER NEC 110.26.
EXISTING CONDUIT & WIRING	EXISTING CONDUIT & WIRING-TO REMAIN
EXISTING 120 VOLT MOTOR	EXISTING 120 VOLT MOTOR-TO REMAIN-UNO
EXISTING ITEMS	EXISTING ITEMS ARE TO REMAIN-UNO
ALL EXISTING ITEMS "DASHED"	ALL EXISTING ITEMS "DASHED" ARE TO BE REMOVED-UNO
REMOVE EXISTING ITEM	REMOVE EXISTING ITEM INCLUDING ASSOCIATED CONDUIT AND WIRING NO LONGER IN SERVICE BACK TO SOURCE.

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DATE: 02.09.2026  
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### BOILER REPLACEMENT & RELATED WORK

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**MONROE PUBLIC SCHOOLS**

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AT

FOR

JOB # **26101**

ELECTRICAL LEGEND  
AND SINGLE-LINE

**E1.02**



L:\Kohler Architecture Inc\26003132\001A-Kohler - MPS Hollywood Ele Working\4\_DRAWINGS\DWG\26003132E1.03.dwg 02/05/26 11:15:52 NFRuno

ALTERNATE

- ALTERNATE HWD-E1: STATE THE AMOUNT TO BE ADDED/SUBTRACTED TO THE BASE BID TO FURNISH ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE FOLLOWING.
- ELECTRICAL WORK ASSOCIATED WITH THE GAS-FIRED DOMESTIC WATER HEATER (HWD-DWH-1) WITH THE DETAILS INDICATED ON THE DESIGN DOCUMENTS.
  - OMISSION OF ALL ELECTRICAL WORK ASSOCIATED WITH THE INLINE PUMP (HWD-HWS-1)

(EXISTING CIRCUITING)

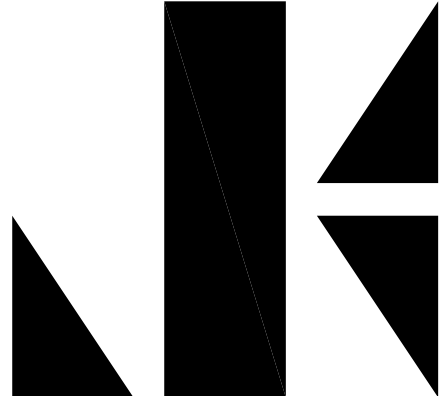
PANELBOARD SCHEDULE											
EXISTING PANEL: E				NOTES:							
MAINS: 100A M.C.B.				<input type="checkbox"/> GFCI BREAKER		<input type="checkbox"/> ARC FAULT		___ KAIC			
VOLTS: 120/240V-1Ø-3W-SN				<input type="checkbox"/> 30 MILLIAMP EQUIPMENT GROUND FAULT TRIP		<input type="checkbox"/> SWITCHED NEUTRAL		<input type="checkbox"/> NON-CONSEQUENT LOAD			
MOUNTING: SURFACE				<input type="checkbox"/> SHUNT TRIP		<input type="checkbox"/> MOTOR OPERATED		<input type="checkbox"/>			
LOAD DESCRIPTION	NOTES	VOLT AMPS	C.B. AMP	A	B	C	VOLT AMPS	NOTES	LOAD DESCRIPTION		
1 SCHOOL EXIT LIGHT		1000	20 1	1800			1 20 800		UNKNOWN	7	1
2 GYM EXIT LIGHT		1000	20 1		1000		1 20 0		SPARE	8	
3 HALL BATTERY PACKS		1000	20 1	1000			1 20 0		SPARE	9	
4 FIRE ALARM PANEL		500	20 1		500		1 20 0		SPARE	10	
5 SPARE		0	20 1	0			1 20 0		SPARE	11	
6 SPARE		0	20 1	0			1 20 0		SPARE	12	
<input type="checkbox"/> HANDLE TIE				2800	1500						
<input type="checkbox"/> HANDLE LOCK				130%	20%						
TOTAL LOAD:				4300					TOTAL AMPS:	17.9	

(NEW CIRCUITING)

PANELBOARD SCHEDULE ②											
PANEL: E				NOTES:							
MAINS: 225A M.L.O.				<input type="checkbox"/> GFCI BREAKER		<input type="checkbox"/> ARC FAULT		22_ KAIC RATING			
VOLTS: 120/240V-3Ø-4W-SN				<input type="checkbox"/> 30 MILLIAMP EQUIPMENT GROUND FAULT TRIP		<input type="checkbox"/> SWITCHED NEUTRAL		<input type="checkbox"/> NON-CONSEQUENT LOAD			
MOUNTING: SURFACE				<input type="checkbox"/> SHUNT TRIP		<input type="checkbox"/> MOTOR OPERATED		<input type="checkbox"/> RELAY CONTROLLED			
LOAD DESCRIPTION	NOTES	VOLT AMPS	C.B. AMP	A	B	C	C.B. AMP	VOLT AMPS	NOTES	LOAD DESCRIPTION	
1 SCHOOL EXIT LIGHT		1000	20 1	1800			1 20 800		UNKNOWN	2	4
3 (WILD LEG)		0			0			0	(WILD LEG)	4	
5 GYM EXIT LIGHT		1000	20 1			1000	1 20 0		SPARE	6	
7 HALL BATTERY PACKS		1000	20 1	1000			1 20 0		SPARE	8	
9 (WILD LEG)		0			0			0	(WILD LEG)	10	
11 FIRE ALARM PANEL		500	20 1			500	1 20 0		SPARE	12	
13 BOILER LIGHTS		240	20 1	984			1 15 744		SF-1	14	
15 (WILD LEG)		0			0			0	(WILD LEG)	16	
17 SPARE		0	20 1			600	1 15 600		B-1	18	
19 SPARE		0	20 1	600			1 15 600		B-2	20	
21 (WILD LEG)		0			0			0	(WILD LEG)	22	
23 SPARE		0	20 1			0	1 20 0		SPARE	24	
25 SPARE		0	20 1	0			1 20 0		SPARE	26	
27 (WILD LEG)		0			0			0	(WILD LEG)	28	
29 SPARE		0	20 1			800	1 15 800		DWH-1	30	
31 SPARE		0	20 1	2947			3 30 2947		TUH-1	32	
33 (WILD LEG)		0			2947		3 30 2947		-	34	
35 HWS-1 & GP-1		1020	20 1			3967	3 30 2947		-	36	
37 HWP-1		2103	30 3	4206			3 30 2103		HWP-2	38	
39 -		2103	30 3		4206		3 30 2103		-	40	
41 -		2103	30 3			4206	3 30 2103		-	42	
<input type="checkbox"/> HANDLE TIE				11537	7153	11073					
<input type="checkbox"/> HANDLE LOCK				116%	72%	112%					
TOTAL LOAD:				29263					TOTAL AMPS:	71.7	

PANEL SCHEDULE NOTES

- ① RE-CIRCUIT EXISTING BRANCH CIRCUIT TO PANEL AS SHOWN. REFER TO PANEL SCHEDULE ON THIS SHEET. EXISTING BREAKER IN OFF POSITION SHALL BECOME SPARE AND/OR AVAILABLE FOR NEW CIRCUITING. NEW BRANCH CIRCUITS SHALL BE IN DEDICATED RACEWAYS AS PER THE SPECIFICATIONS.
- ② E.C. SHALL UPDATE PANEL DIRECTORY AT COMPLETION OF PROJECT.
- ③ INDICATES EXISTING ITEM SHALL BE REMOVED INCLUDING ASSOCIATED CONDUIT AND WIRING NO LONGER IN SERVICE.
- ④ EXISTING BRANCH CIRCUIT SHALL BE RE-CIRCUITED TO NEW PANEL AS SHOWN.



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AT

FOR

JOB # 26101

ELECTRICAL  
PANEL SCHEDULES

E1.03

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