AIA® Document G714 – 2017

Construction Change Directive

PROJECT: (name and address) Highland Township Fire Station 1 PIA 18-122A	CONTRACT INFORMATION: Contract For: General Construction	CCD INFORMATION: Directive Number: 001
10 12211	Date:	Date: June 4, 2020
OWNER: (name and address) Highland Township 250 W. Livingston Road Highland, MI 48357	ARCHITECT: (name and address) PARTNERS in Architecture, PLC 65 Market Street Mount Clemens, MI 48043	CONTRACTOR: (name and address) Axiom Construction Services Group, LLC 10638 Rushton Road South Lyon, MI 48178

The Contractor is hereby directed to make the following change(s) in this Contract: (Insert a detailed description of the change and, if applicable, attach or reference specific exhibits.)

Refer to attached Electrical and Mechanical Exhibits for description of work.

PROPOSED ADJUSTMENTS

1.

- The proposed basis of adjustment to the Contract Sum or Guaranteed Maximum Price is: Lump Sum decrease of \$0.00
 - Unit Price of \$ per
 - Cost, as defined below, plus the following fee:
 (Insert a definition of, or method for determining, cost)
 - As follows: These changes will result in a credit to the contract. The final amount is to be determined. An adjustment will be made to the contract amount, afterwards, via Change Order.
- 2. The Contract Time is proposed to remain unchanged. The proposed adjustment, if any, is (0 days).

NOTE: The Owner, Architect and Contractor should execute a Change Order to supersede this Construction Change Directive to the extent they agree upon adjustments to the Contract Sum, Contract Time, or Guaranteed Maximum price for the change(s) described herein.

When signed by the Owner and Architect and received by the Contractor, this document becomes effective IMMEDIATELY as a Construction Change Directive (CCD), and the Contractor shall proceed with the change(s) described above.

PARTNERS in Architecture, PLC

ARCHITECT (*Firm name*)

SIGNATURE Joseph Valeri, Sr. Project Architect PRINTED NAME AND TITLE 6/4/2020

DATE

Highland Township

OWNER (Firm name)

SIGNATURE

Ken Chapman, Fire Chief
PRINTED NAME AND TITLE

DATE

Contractor signature indicates agreement with the proposed adjustments in Contract Sum and Contract Time set forth in this CCD.

Axiom Construction Services Group, LLC

CONTRACTOR (Firm name)

SIGNATURE Deib Mougrabi, Director of Field Operations PRINTED NAME AND TITLE

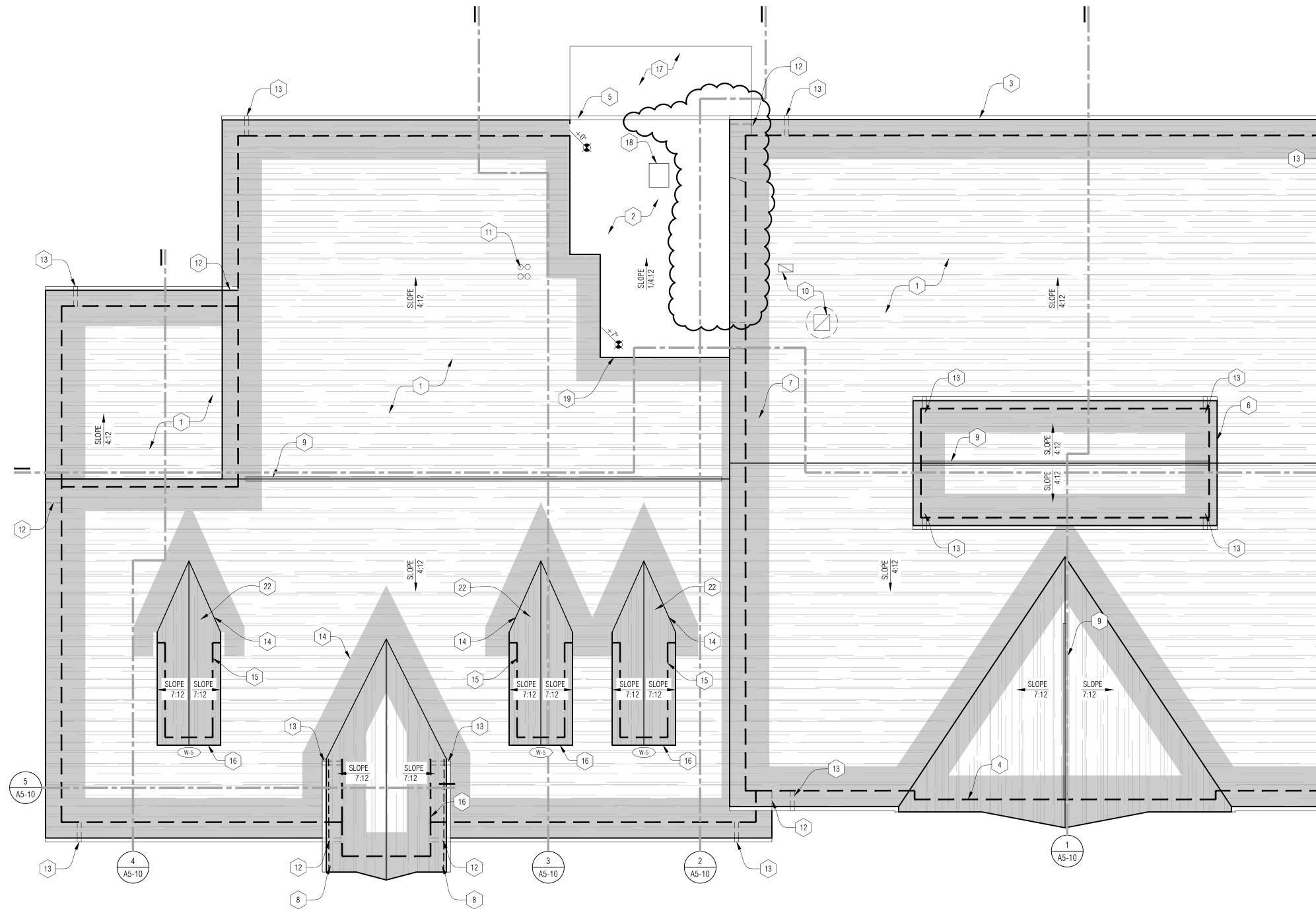
DATE

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EXHIBIT 'A'

<u>References</u>

- Architectural: Sheet A3-30 Mechanical unit with continuous roof curb, and guard rail to be removed.
- Mechanical: Sheet M1-02, M2-01, M2-02, M3-01, M4-01, M5-01, M5-02, M6-01, and M6-02 -MAU unit with all associated ducting and accessories to be removed. Gas Infrared heaters with all associated piping, venting, and other accessories to be added.
- Electrical: Sheet E0-02, E0-04, and E3-00 All electrical associated with MAU unit and ducting to be revised for Gas Infrared heaters with all associated piping, venting, and other accessories.

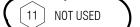


ROOF PLAN GENERAL NOTES:

- A. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION FOR ROOF RELATED ITEMS.
- B. TAPERED INSULATION SHALL SLOPE 1/4" PER 1'-0" TOWARDS ROOF SUMP UNLESS OTHERWISE NOTED. SLOPE VALUES ARE APPROXIMATE. IF SLOPE CANNOT BE ACHIEVED, CONTACT ARCHITECT BEFORE PROCEEDING FURTHER. ARROWS SHOWN REPRESENT DOWN SLOPE OF ROOF.
- C. REFER TO ROOF DETAILS FOR ALL PIPE PENETRATIONS COORDINATE LOCATIONS AND QUANTITIES W/ MECHANICAL.
- D. DO NOT PENETRATE SHINGLE ROOF REFER TO MECHANICAL AND ELECTRICAL FOR ALL THRU ROOF PENETRATIONS. FLASH AND SEAL ALL PENETRATIONS IN ACCORDANCE WITH THE ROOF MANUFACTURER'S SPECIFICATIONS AND DETAILS TO ENSURE WARRANTY & DETAILS.

ROOF PLAN KEY NOTES:

- ASPHALT SHINGLE ROOF. ALL VENTING AND EXHAUST TO BE IN ROOF WELL WALL / RIDGE OR SOFFIT. NO VENTING OR ANY M.E.P. PENETRATIONS THROUGH SHINGLE ROOF ON SOUTH SIDE
- 2 SINGLE-PLY MEMBRANE ROOFING ON R-15 MIN TAPERED INSULATION
- 3 6" K-STYLE METAL GUTTER (MRS-2)
- 4 LINE OF FACE OF WALL BELOW, TYPICAL (DASHED LINE)
- 5 WRAP ROOF MEMBRANE OVER SIDING. TWO-PIECE ALUMINUM GUTTER AND FASCIA SYSTEM APPLIED OVER MEMBRANE WRAP
- 6 PARAPET FLASHING MEMBRANE ON BOTH SIDES OF ROOF CUT-OUT. PROVIDE METAL FLASHING W/ DRIP EDGE AT SHINGLES SEE SIM. DETAIL 4/A3-31
- 7 SHADED AREA OF ICE AND WATER SHIELD SYSTEM EXTEND 3'-0" MIN. PAST WALL BELOW AND VALLEYS.
- 8 CONTINUOUS INTAKE VENT. INSTALL PER MANUFACTURERS INSTRUCTIONS
- 9 CONTINUOUS RIDGE VENT REFER TO DETAIL 2/A3-31
- 10 ROOF VENT REFER TO MECH. & DETAIL 1/A3-31



- 12 LINE OF ROOF BELOW
- [13] METAL DOWNSPOUT DRAIN (MRS-2)
- 14 PROVIDE ICE AND WATER SHIELD AT ALL VALLEYS AND RIDGES (DETAIL 5/A3-21) AND EXTEND 3'-0" BEYOND INTERIOR FACE OF EXTERIOR WALLS (DETAIL 6/A3-21)
- 15 PROVIDE FLASHING AT SIDEWALL TO ROOF TRANSITION SEE DETAIL (4/A3-21)
- 16 WINDOW BELOW ROOF DORMER, REF A0-04: WINDOW SCHEDULE AND WINDOW TYPES
- 17 LINE OF TRAINING DECK BELOW ALTERNATE #3
- 18 ROOF ACCESS HATCH
- 19 PROVIDE FLASHING AT ASPHALT SHINGLE ROOF TO SINGLY-PLY MEMBRANE ROOF TRANSITION
- 20 NOT USED

A5-11

-13

- CONTINUOUS RIDGE VENT SLOPE TO HIGH WALL REFER TO SPECIFICATIONS
- 22 NO SHEATHING BELOW DORMER FOR CONTINUOUS ATTIC ATMOSPHERE



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CONSULTANT

KEY PLAN

OWNER Highland Township Fire Department

PROJECT NAME

Highland Township Fire Station No. 1

1600 W. Highland Rd. Highland, MI 48357

PROJECT NO.

18-122A

ISSUES / REVISIONS
Bidding - Construction
Addendum #1
Construction Set
CCD #1

03/27/20 04/20/20 05/04/20 06/04/20

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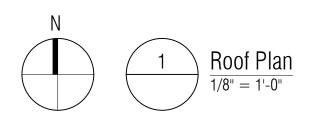
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LL / AM

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DG SHEET NAME

ROOF PLAN

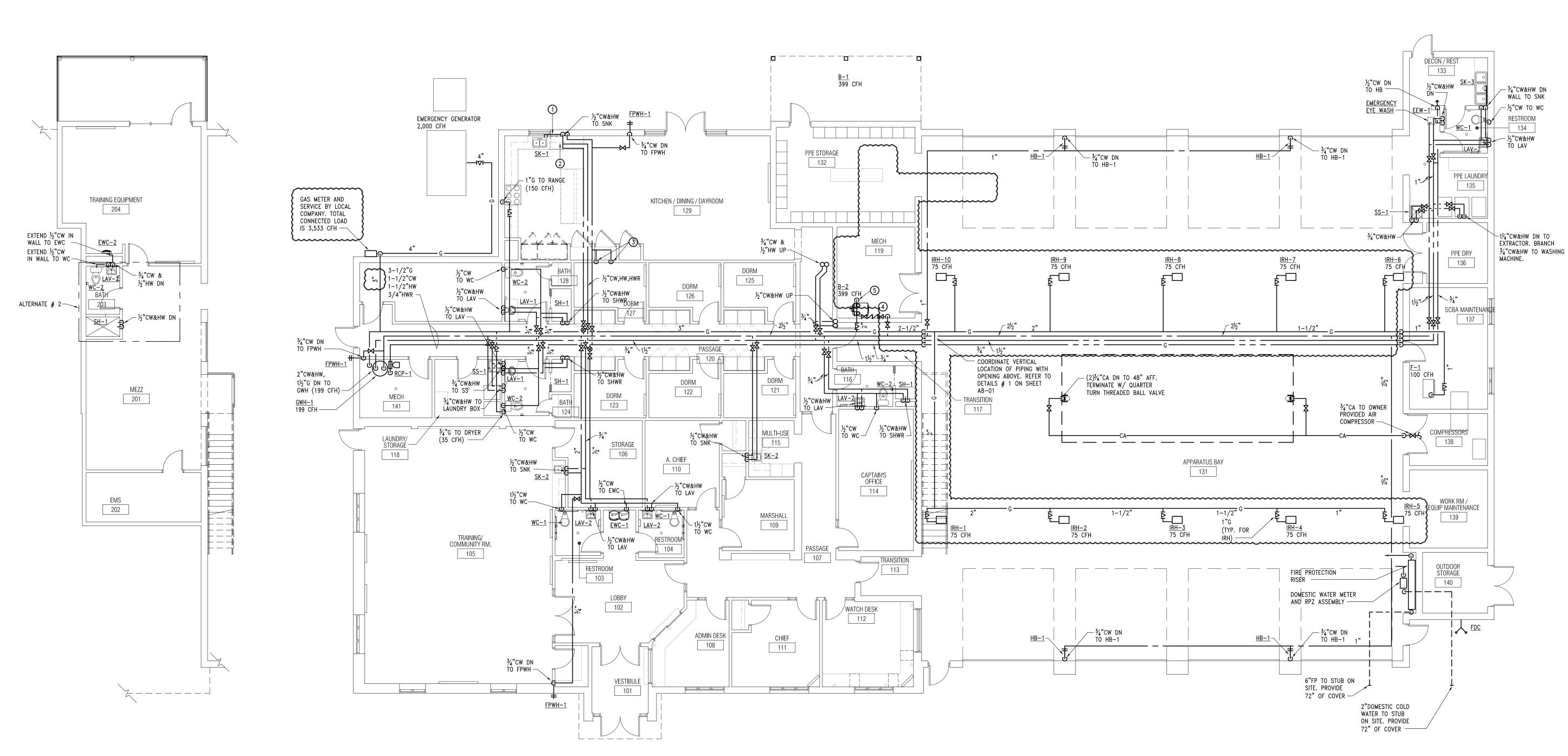


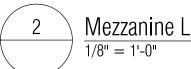
-13

SLOPE

-21

sheet no. A3-30





Mezzanine Level Floor Plan - Domestic Water & gas



		AL GAS UMMARY
	EQUIPMENT	INPUT (CFH)
	GWH-1	199
$\left\{ \right.$	IRH-1 THRU 10	(10x75) 750
$\left\{ \right.$	B-1	399
8		
	GAS RANGE (ALLOCATED)	150
	GAS DRYER (ALLOCATED)	35
	GENERATOR (ALLOCATED)	2000
	F-1	100
	TOTAL	= 3,533 CFH
	PIPE DESIGN BASED ON 7' WITH 0.3"W.C. ALLOWABLE	

NEW	WORK KEY	Y NOTE
1	EXTEND DOMES WALL. PROVIDE STUD AND ALL	E MINIMUM
2	EXTEND HOT W	
3	½" COLD WATH PREVENTER AP ABOVE CEILING	OLLO MOD
4	1" COLD WATE PIPE "SPIT" TO	
5	2" GAS DOWN IN VERTICAL. (
6	BOILER # 1 (I	N FLOOR
<u>gene</u>	RAL NOTES	<u>S:</u>
A. (COORDINATE ALL	WORK W

<u>ES:</u>

ATER IN WALL TO SINK. KEEP TIGHT TO INTERIOR OF IUM 2" RIGID INSULATION BEHIND PIPE AN SEAL TO S.

O DISHWASHER. PROVIDE FINAL CONNECTION PER

/N TO REFRIGERATOR, PROVIDE ONE BACKFLOW MODEL #4C-100 SERIES PER COLD WATER DROP JTE DEVICE DRAIN TO SERVICE SINK.

E DEVICE DRAIN TO SERVICE SINK. ECHANICAL EQUIPMENT. PROVIDE RPZ AND

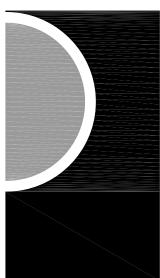
R DRAIN. ILER. PROVIDE SHUT-OFF

† EA) R HEAT) IS AN ALTERNATE # 5.

WITH OTHER TRADES.



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OWNER

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PROJECT NAME

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1600 W. Highland Rd. Highland, MI 48357

PROJECT NO.

18-122A

ISSUES / REVISIONS SCHEMATIC DESIGN 01-28-2020 BIDDING-CONSTRUCTION 03-27-2020 ADDENDUM # 1 04-20-2020 CONSTRUCTION 05-04-2020 CCD # 1 06-03-2020

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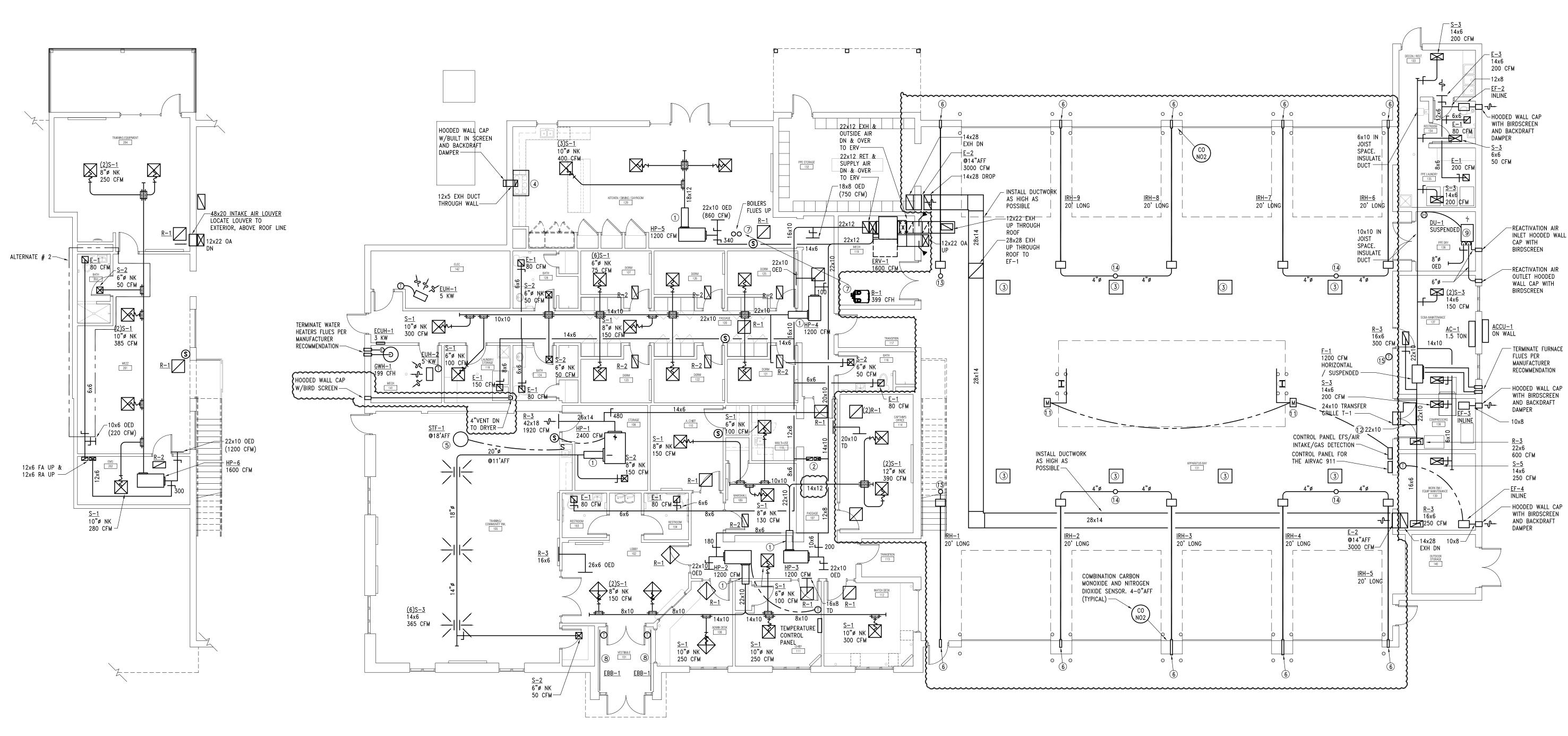
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APPROVED BY

MS SHEET NAME

FLOOR PLANS -DOMESTIC WATER AND GAS

SHEET NO. M1-02





2



HVAC KEY NOTES: (1) PROVIDE CIRCULAR MEDIUM VELOCITY SILENCER BY PRICE MANUFACTURER MODEL CM24 SERIES. (2) 12x6 FA UP & 12x6 RA UP. (300 CFM).

- WALL GAS DETECTORS, OVERRIDE SWITCH, CONTROL PANEL. INSTALL BOTTOM OF THE UNIT AT 25' AFF.
- (4) KITCHEN HOOD BY ACCUREX MODEL XRRS-W-36-R, INTEGRAL FAN, REAR DISCHARGE, 500 CFM.
- \bigcirc DE-STRATIFICATION (STF-1) FAN BY AIR-ROW FANS MODEL AF-22, 120/1, 1170 CFM, 23 WATTS.
- (WALL) CONCENTRIC KIT AND PER MANUFACTURER RECOMMENDATION.
- CONTRACTOR TO CONSULT WITH THE MANUFACTURE INSTALLATION MANUAL FOR INSTALLATION.
- MODEL # DBF, 9' LONG, 2250 WATTS, 208/1.
- 0 NOT IN USE.
- THE COPULA LOUVERS. LOUVERS BY ARCHITECT.
- (12) LINED TRANSFER DUCT FOR SOUND.
- (15) CONNECT ALL IRH TO THIS THERMOSTAT.

(3) ENGINE EXHAUST REMOVAL SYSTEM BY AIR VAC 911, 120/1, 3/4" HP, 13 AMPS. PROVIDE COMPLETE SYSTEM;

6 4"ø vent through wall. terminate with horizontal

(7) PROPOSED FLUES ROUTING SERVING THE BOILER.

(8) PEDESTAL MOUNTED ELECTRIC BASEBOARD BY MARKEL

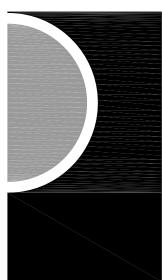
(9) DRYER UNIT. SEE SCHEDULES. INSTALL PER MANUFACTURER RECOMMENDATION.

1) PROVIDE MOTORIZE DAMPER TO CONTROL (OPEN/CLOSE)

 $(\overline{\textbf{3}})$ 4"ø intake up through roof. terminate with pitch roof cap and PER MANUFACTURER RECOMMENDATION. PROVIDE BIRDSCREEN. 14 6"ø intake up through roof. terminate with gooseneck and per MANUFACTURER RECOMMENDATION. PROVIDE BIRDSCREEN.



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KEY PLAN

OWNER

Highland Township Fire Department

PROJECT NAME

Highland Township Fire Station No. 1

1600 W. Highland Rd. Highland, MI 48357

PROJECT NO.

18-122A

ISSUES / REVISIONS

SCHEMATIC DESIGN	01-28-2020
BIDDING-CONSTRUCTION	03-27-2020
ADDENDUM # 1	04-20-2020
CONSTRUCTION	05-04-2020
	06-03-2020

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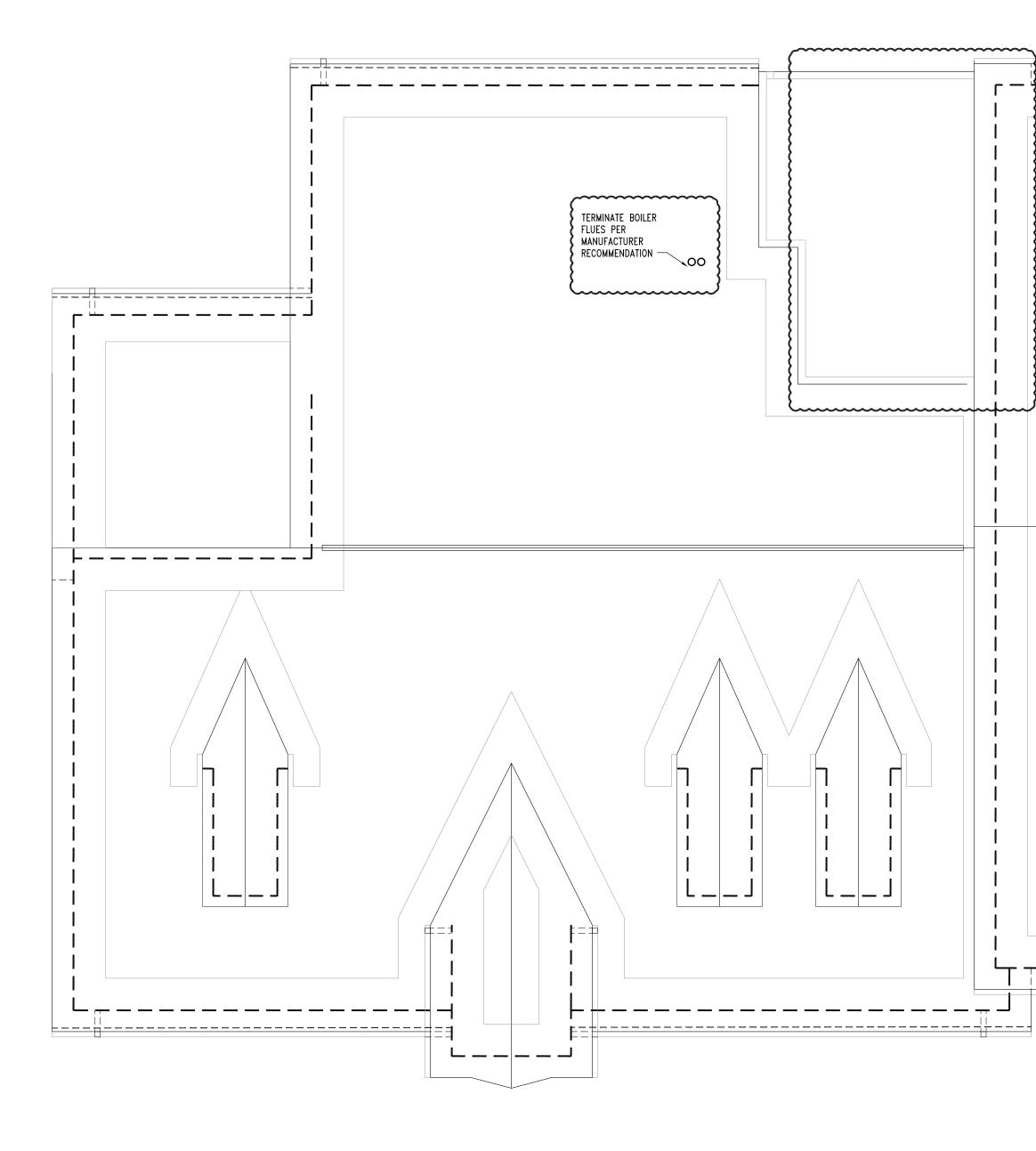
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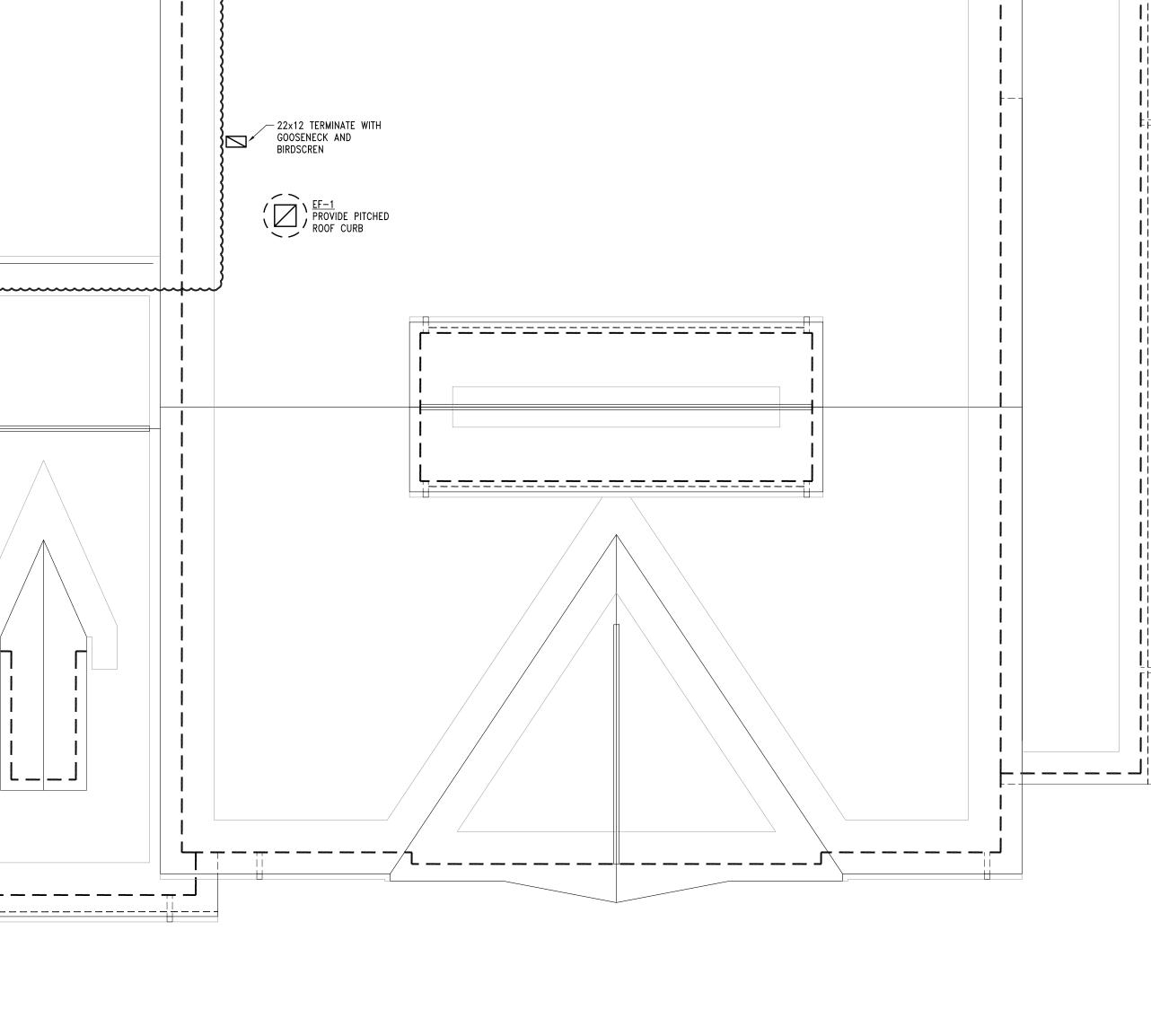
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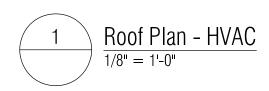
SHEET NAME

FLOOR PLANS -HVAC

SHEET NO. M2-01



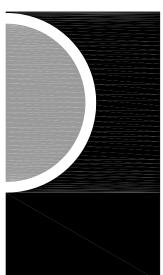




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HVAC KEY NOTES:
(1) PROVIDE CIRCULAR MEDIUM MANUFACTURER MODEL CM24
2 12x6 FA UP & 12x6 RA UP
(3) ENGINE EXHAUST REMOVAL S 120/1, 3/4" HP, 13 AMPS. WALL GAS DETECTORS, OVEF INSTALL BOTTOM OF THE UN
(4) KITCHEN HOOD BY ACCUREX INTEGRAL FAN, REAR DISCHA
(5) DE-STRATIFICATION (STF-1) MODEL AF-22, 120/1, 1170
6 4"Ø VENT THROUGH WALL. (WALL) CONCENTRIC KIT ANI RECOMMENDATION.
PROPOSED FLUES ROUTING S CONTRACTOR TO CONSULT W INSTALLATION MANUAL FOR
 (8) PEDESTAL MOUNTED ELECTRI MODEL # DBF, 9' LONG, 22
(9) DRYER UNIT. SEE SCHEDULE RECOMMENDATION.
10 NOT IN USE.
1 PROVIDE MOTORIZE DAMPER THE COPULA LOUVERS. LOU
1 LINED TRANSFER DUCT FOR
(13) 4"Ø INTAKE UP THROUGH R PER MANUFACTURER RECOMM
6"Ø INTAKE UP THROUGH ROMANUFACTURER RECOMMENDATION
(15) CONNECT ALL IRH TO THIS
(

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Highland Township Fire Department

PROJECT NAME

Highland Township Fire Station No.

1600 W. Highland Rd. Highland, MI 48357

PROJECT NO.

18-122A

ISSUES / REVISIONS SCHEMATIC DESIGN 01-28-2020 BIDDING-CONSTRUCTION 03-27-2020 CONSTRUCTION 05-04-2020

CCD # 1 06-03-2020

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SHEET NAME

ROOF PLAN - HVAC

SHEET NO. M2–02

VELOCITY SILENCER BY PRICE 124 SERIES.

UP. (300 CFM). L SYSTEM BY AIR VAC 911,

_ __ __ __ __ __

PS. PROVIDE COMPLETE SYSTEM; VERRIDE SWITCH, CONTROL PANEL. UNIT AT 25' AFF.

MODEL XRRS-W-36-R, CHARGE, 500 CFM.

I) FAN BY AIR-ROW FANS 170 CFM, 23 WATTS. . TERMINATE WITH HORIZONTAL

AND PER MANUFACTURER ~~~~~ G SERVING THE BOILER.

WITH THE MANUFACTURE R INSTALLATION. TRIC BASEBOARD BY MARKEL

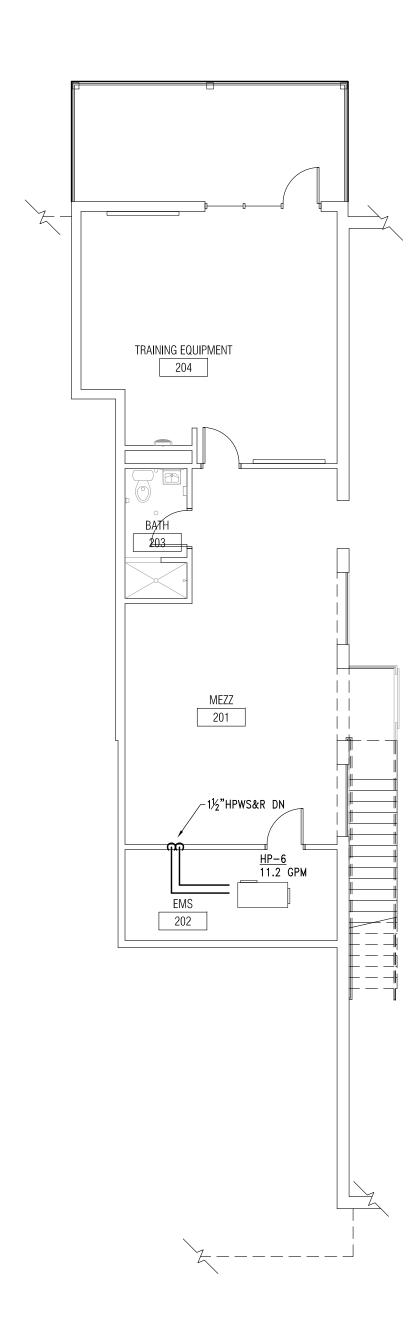
2250 WATTS, 208/1. ILES. INSTALL PER MANUFACTURER

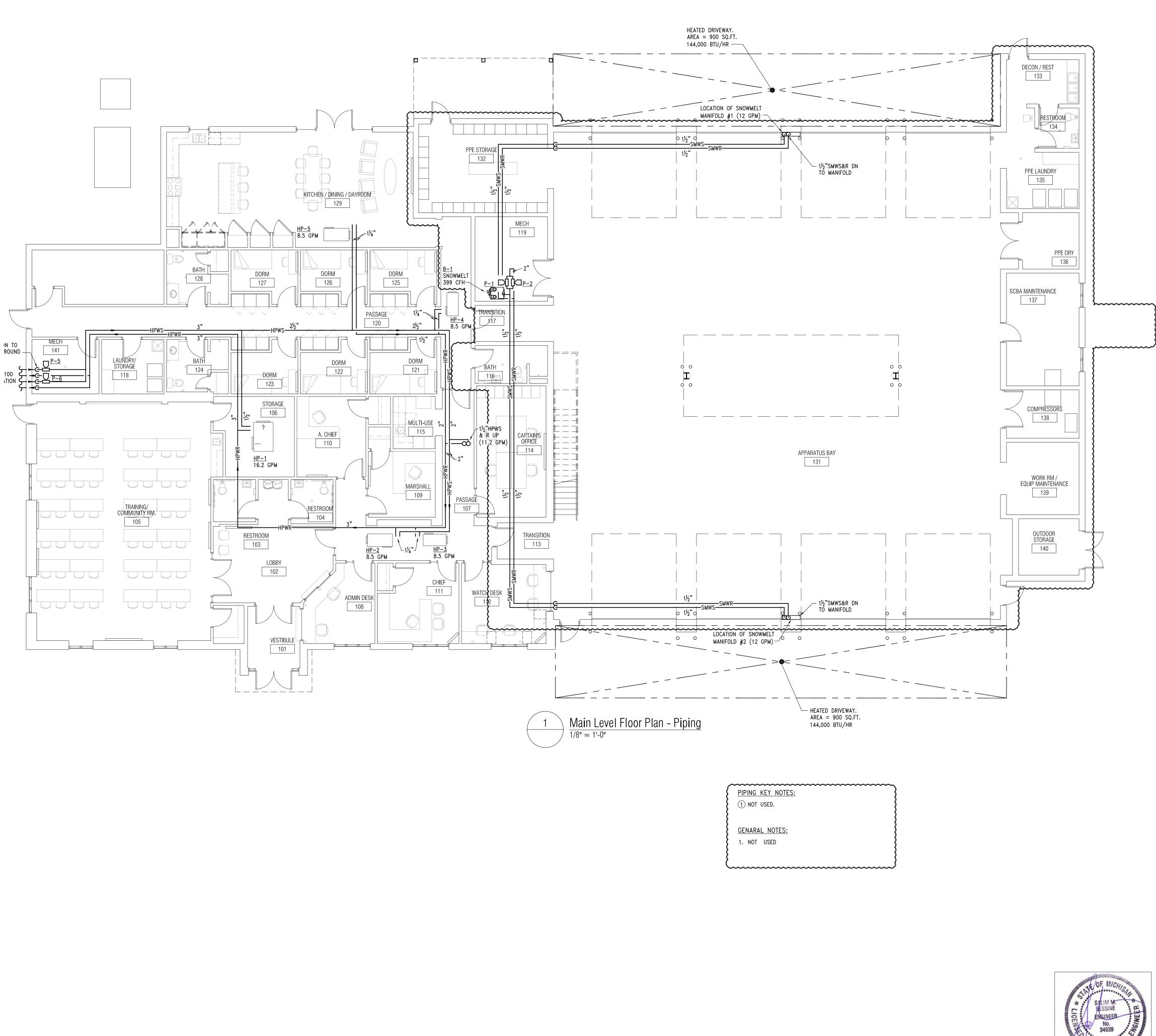
ER TO CONTROL (OPEN/CLOSE) OUVERS BY ARCHITECT.

SOUND. I ROOF. TERMINATE WITH PITCH ROOF CAP AND ROOF. TERMINATE WITH GOOSENECK AND PER NDATION. PROVIDE BIRDSCREEN. S THERMOSTAT.



H:\ACAD\FILES\75\75810 - Highland Twp FS-1\CAD\MECH\75810-M2-01-HVAC.dwg Thu, 04 Jun 2020 - 8:32am







Mezzanine Level Floor Plan - Piping 1/8" = 1'-0"

FLOOR PLANS -

1600 W. Highland Rd. Highland, MI 48357

Highland Township Fire Station No. 1

Highland Township

Fire Department

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MAENGINEERING

MechanicalElectrical

400 S. Old Woodward Ave., t | 248 | 258 | 1610 Sulte 100 f | 248 | 258 | 9538 Birmingham, Michigan 48009

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KEY PLAN

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PROJECT NAME

PROJECT NO. 18-122A

ISSUES / REVISIONS -SCHEMATIC DESIGN 01-28-2020 BIDDING-CONSTRUCTION 03-27-2020 05-04-2020 CONSTRUCTION CCD # 1 06-03-2020 DRAWN BY MS CHECKED BY MS

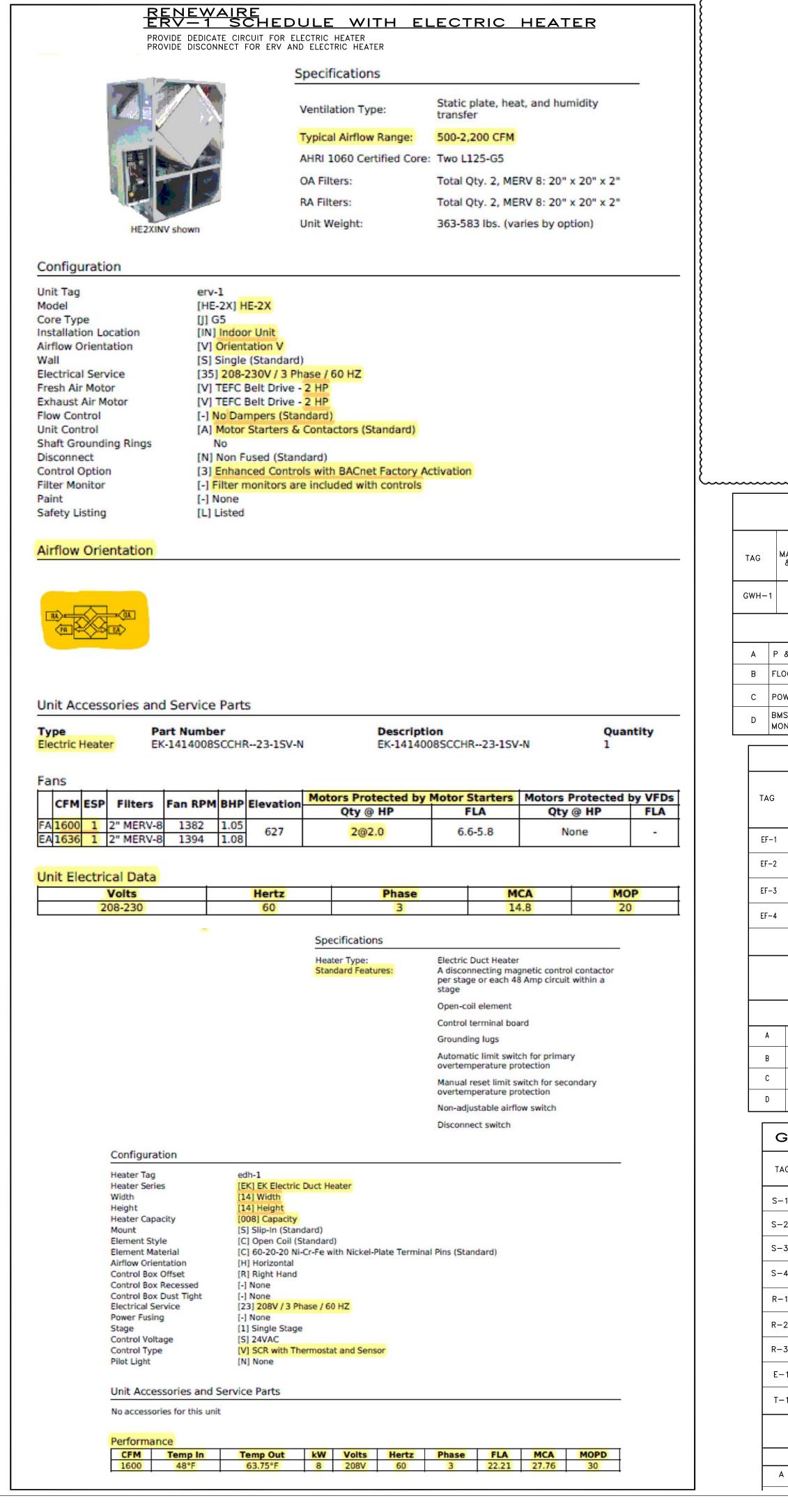
SHEET NO. M3-01

APPROVED BY

SHEET NAME

PIPING

MS



	MANUFACTURER			EXT. SP	ЕСМ		COOLIN	G		HE	ATING			El	ECTRICAL	DATA		EER	NOTES/ACCESSORIES
TAG	& MODEL No.	MOUNTING	CFM	IN IN	FAN HP	MBH TOTAL	MBH SENS	EWT DEG F	LWT DEG F	мвн	EWT DEG F	LWT DEG F	GPM	VOLT	ELECTRIC HEAT (KW)	МСА	моср		
HP-1	TRANE EXH—070	HORIZONTAL	2090	0.4	1	76.7	57.2	45	55.4	63.3	45	38.9	16.2	208/3	6.5	32.3	50	36.4	ABCDEFG
HP-2	TRANE EXH—036	HORIZONTAL	1200	0.4	3/4	41.9	31.6	45	55.8	34.1	45	38.6	8.4	208/3	5	22	25	42.2	ABCDEFG
HP-3	TRANE EXH—036	HORIZONTAL	1200	0.4	3/4	41.9	31.6	45	55.8	34.1	45	38.6	8.4	208/3	5	22	25	42.2	ABCDEFG
HP-4	TRANE EXH–036	HORIZONTAL	1200	0.4	3/4	41.9	31.6	45	55.8	34.1	45	38.6	8.4	208/3	5	22	25	42.2	ABCDEFG
HP-5	TRANE EXH—036	HORIZONTAL	1200	0.4	3/4	41.9	31.6	45	55.8	34.1	45	38.6	8.4	208/3	5	22	25	42.2	ABCDEFG
HP-6	TRANE EXH-048	HORIZONTAL	1500	0.4	3/4	55.6	41.6	45	55.9	45.0	45	38.6	11.2	208/3	6.5	28.9	30	24.2	ABCDEFG

FACTORY MOUNTED CONTROL А

PROVIDE VIBRATION ISOLATION HANGER В

С DRAIN CONDENSATE THRU OUTSIDE WALL

\sim			~~~~	~~~	~~~~	~~~	~~~	~~~~	~~~~	~~~~	~~~~	3		
	DOM	ESTIC	W.	ΔΤ	ER	н	EA	TEF	r s	СНЕ	DU	LE		
	MANUFACTURER			C	CAPACITI	IES		(2)PV	C PIPE					
	& MODEL No.	LOCATION	STORA	GE	RECOVE	IRY T	D°F		/EXHAUS ø	TBTU	NO	TES/ACCESSORIES		
-1	A.O. SMITH BTH-199	BOILER ROOM	100		288	1	00		4"	199,00	00 A B	CDEFGH		
			NOTES A	ND #	ACCESSO	ORIES	DESIGN	NATION						
P	& T RELIEF TO	FD	E	EXF	PANSION	TANK								
FL	OOR MOUNTED		F	ΝΑΤ	FURAL G	GAS								
P	OWER VENTED		G	120)V/1ø,	DISCOI	NNECT	SWITCH						
BMS CONTACT FOR REMOTEHCP-1 BY BELL&GOSSETT MODEL # EROCIRC XL55-45 ALL BRONZE. 20 30' OF HEAD, 208/1ø, .5 HP. INTERLOCK W/AQUASTAT (SET AT 110°F)														
			F		N	sc	HE	DU	LE					
	MANUFACTUR	ER SERVICE				ESP	FAN	WHEEL		TRICAL	WEIGHT	NOTES/		
AG	& MODEL N		LOCATI	ON CFM		"WC	KEY	TYPE	VOLTS /ø	HP	POUND	ACCESSORIES		
:F-1	GREENHECK CUBE-200-15	APPERATUS BAY	PITCHI ROOF		6000	0.8	RMC	BI	208/3	2	180	АВСДЕ		
F-2	GREENHECK SQ-95-VG	DECON REST	INLIN DUCT	E r	480	.4	ILC	BI	120/1	1/10	45	СҒН		
F-3	GREENHECK SQ-95-VG	COMPRESSOF RM	R INLIN DUCT		600	.4	ILC	BI	120/1	1/10	60	GН		
F-4	GREENHECK SQ-95-VG	WORK RM	INLIN DUCT		800	.4	ILC	BI	120/1	3/4	64	G H		
	RMC - ROOF N CLG - CEILING ILC - INLINE SW - SIDE W	MOUNT CENTRIFUGAL								WHEEL – FORWA – BACKW	ARD CURVE			
			NOTE	IS A	ND ACC	ESSOR	IES DE	SIGNATI	ON					
A	14"H PITCH ROOF	CURB							ERLOCK WI ERMOSTAT S					
В	GRAVITY BACKDRAF	T DAMPER						H VIR	ATION ISOL	ATOR HANG	ING KIT			
С	FACTORY MOUNTED	& WIRED DISCOM	INECT SWIT	СН				E IN	TERLOCK W	ITH BMS /	MAU-1			
D	BIRDSCREEN							F OI	N ALL THE	TIME				
(GRILLE,	REG	IST	EF	R 8	c [DIF	FUS	SER	SC	HE	DULE		
Т	AG MANUFACTU & MODEL	J 35	RVICE		MOUN	TING	OVE	RALL SIZ	ZE N	ECK SIZE		NOTES/ CESSORIES		
S۰	-1 TITUS OMNI		SAD		LAY-IN	١	2	24x24	SE	E PLAN	A			
S-	-2 TITUS OMNI		SAD		SURFAC	E	1	12x12	SE	E PLAN	A			
S-	-3 TITUS		SAD	\vdash	SURFAC	E	SE	E PLAN	SE	E PLAN		3		
S-			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~ ~ ~						NOT	USED		
			RAR		LAY-IN			4x24			A			
	-2 50F				LAY-IN			2x24			A			
	-3 25RL -1 TITUS				SURFAC			E PLAN			A			
			RAR TAG		SURFAC SURFAC			E PLAN			A A	Α		
	KEY: SAD -	CEILING SUPPI CEILING OR W	ALL TRANS	ER FER	GRILLE		RAG - EAG -	- CEILING - CEILING	OR WALL OR WALL		GRILLE			
			NOTES	ANI	D ACCES	SSORIE	S DES	IGNATIO	N					
	A COLOR BY	ARCHITECH												

				9	4.1 THERM	AL EFFICIE	NCY (%)						
TAG	MANUFACTURER				ТҮРЕ	INPUT CFH	OUTPUT	SUPPLY	TD	ELECT	RICAL	- NOTES/ACCESSORIES	
	& MODEL NO.	SERVICE					мвн	°F	°F	VOLTS	FLA		
B-1	HERMAL SOLUTIONS APX425C	SNOW MELT	MECH ROOM	Н	OT WATER	80/399	375	160	30	120/1	10	A B C D E F G H I G K	
~~~					NOTE	S AND AC	CESSORIE	S DESIGNA	TION				
A	CONDENSING TYPE			F	4"CONCRET	E PAD		К	DISCONNECT SWITCH				
В	RELIEF VALVE DRAIN TO	FD		G	4 VENT, 4	INTAKE; AL2	RIALS	L	ALTERNATE	# 5			
C BOILER PUMP SEE SCHEDULE (BP-1) FOR EACH BOILER					CONDENSA	E NEUTRALIZ							
D PROVIDE SINGLE POWER CONNECTION					BACNET CA	RD							
E	5:1 TURNDOWN			G	30% PRO	30% PROPYLENE GLYCOL							

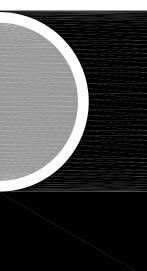
	MANUFACT			SYSTE	M .		IMPELLE		PACITIES			MOTOR DATA		
TAG	& MODE			SERVE				GPM	HEA		HP	VOLTS	RPM	
P−1 P−2	BELL & GOS E-90-1.5/		MECH ROOM	SNOW M	ELT IN	LINE	5.5	24	30		3/4	120/1	3250	A B C D
P-5 P-6	BELL & GOS E-90-1.5A		AUNDRY TORAGE	GEO-THEF HEAT PU		LINE	5	61	10	0	5	208/3	3600	ACDEF
BP-1	BELL & GOS PL-55		MECH ROOM	B-2	IN	LINE		25	20	o	2/5	120/1	3250	ABCD
				NO	TES AND	ACCESS	SORIES DE	SIGNATI	ON					
А	30% PROPYLEN	E GLYCOL				D	BACI	NET CAR	D.					
В	B INTERLOCK WITH BOILER					E	VFD							
С	DISCONNECT SV	VITCH				F	SUSI	PEND FF	OM STRU	JCTURE				
~~~~		~~~~~~	~~~~~	~~~~~	~~~~~		~~~~~	~~~~~	~~~~~	~~~~	~~~~~	~~~~~~	$\overline{}$	
	GA	AS IN	FRAF	RED	HE		IR S	SCH	EDL	JLE	• -		}	
TAG	MANUFACTURER & MODEL No.	AREA	REFLECTIVE	INTAKE/	LENGTH	ıs	GAS DA	ATA ELECTRIC				NOTES/ACCESSORIES		
	& MODEL NO.	SEL No. SERVED PATTERN SIZ		SIZE	(FT)	TYF	PE MBH HIGH	H MBH H LOW VOLTS		AMPS				
IRH-1 THRU RH-10	RE-VERBER-RAY HL3-20-75	APPARATUS BAY	30	4"	20	NA	T 75	50	120	4.8	A B	CDEFG		
			NOTE	ES AND A	CCESSOI	RIES DE	SIGNATIO	N						
А	TWO STAGE OPE	RATION			F 4'	'SIDE W	'ALL VEN	KIT						SUSSESSESSESSESSESSESSESSESSESSESSESSESS
В	LOW INTENSITY				G M	OUNTING	G CHAIN	KIT						A SALIM M.
С	ONE THERMOSTA	T FOR ALL												ENGINEER
D	MOUNTING @ 16	' AFF												No. 34939 POFESSION
E	UNIT MOUNTED I	DISCONNECT												PROFESSION

NOTES AND ACCESSORIES DESIGNATION

D	2"FILTER
E	BUILT-IN DISCONNECT SWITCH
F	30% PROPYLENE CLYCOL
G	BACNET CARD

	HEA	TER	s s	сн	EDU	JLE							
	LENGTHS	G	AS DAT	Ā	ELECTR	ICAL	NOTES/ACCESSORIES						
	(FT)	TYPE	MBH HIGH	MBH LOW	VOLTS	AMPS	NOTES/ ACCESSORIES						
	20	NAT	75 50		120	4.8	ABCDEFG						
(CCESSORIES DESIGNATION												
ł	- 4"SII	DE WALL	VENT	KIT									
(G MOUI	NTING CI	HAIN K	IT									

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PROJECT NO.

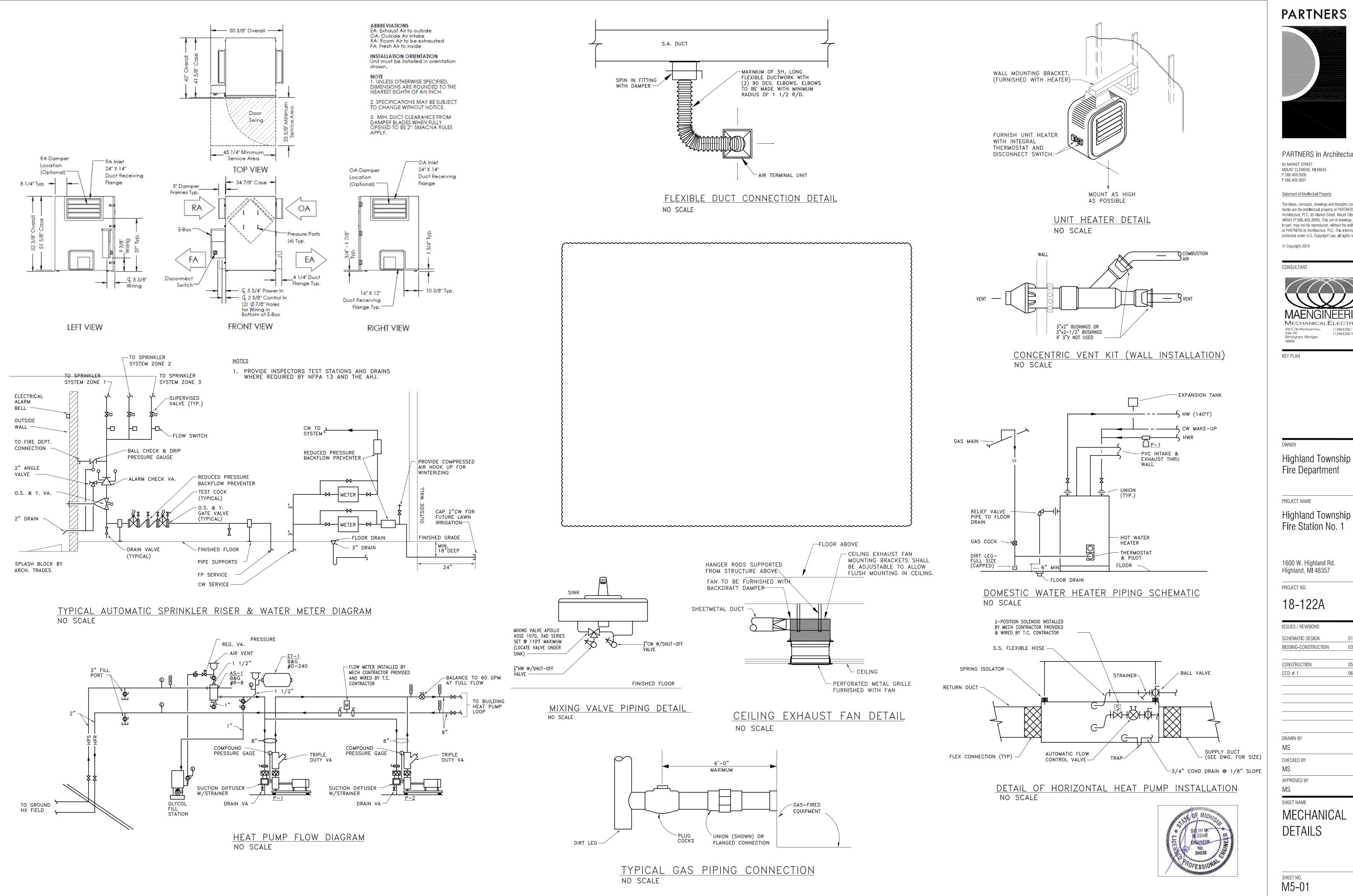
18-122A

ISSUES / REVISIONS	
SCHEMATIC DESIGN	01-28-2020
BIDDING-CONSTRUCTION	03-27-2020
CONSTRUCTION	05-04-2020
CCD # 1	06-03-2020
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SHEET NAME MECHANICAL SCHEDULES

SHEET NO. M4-01



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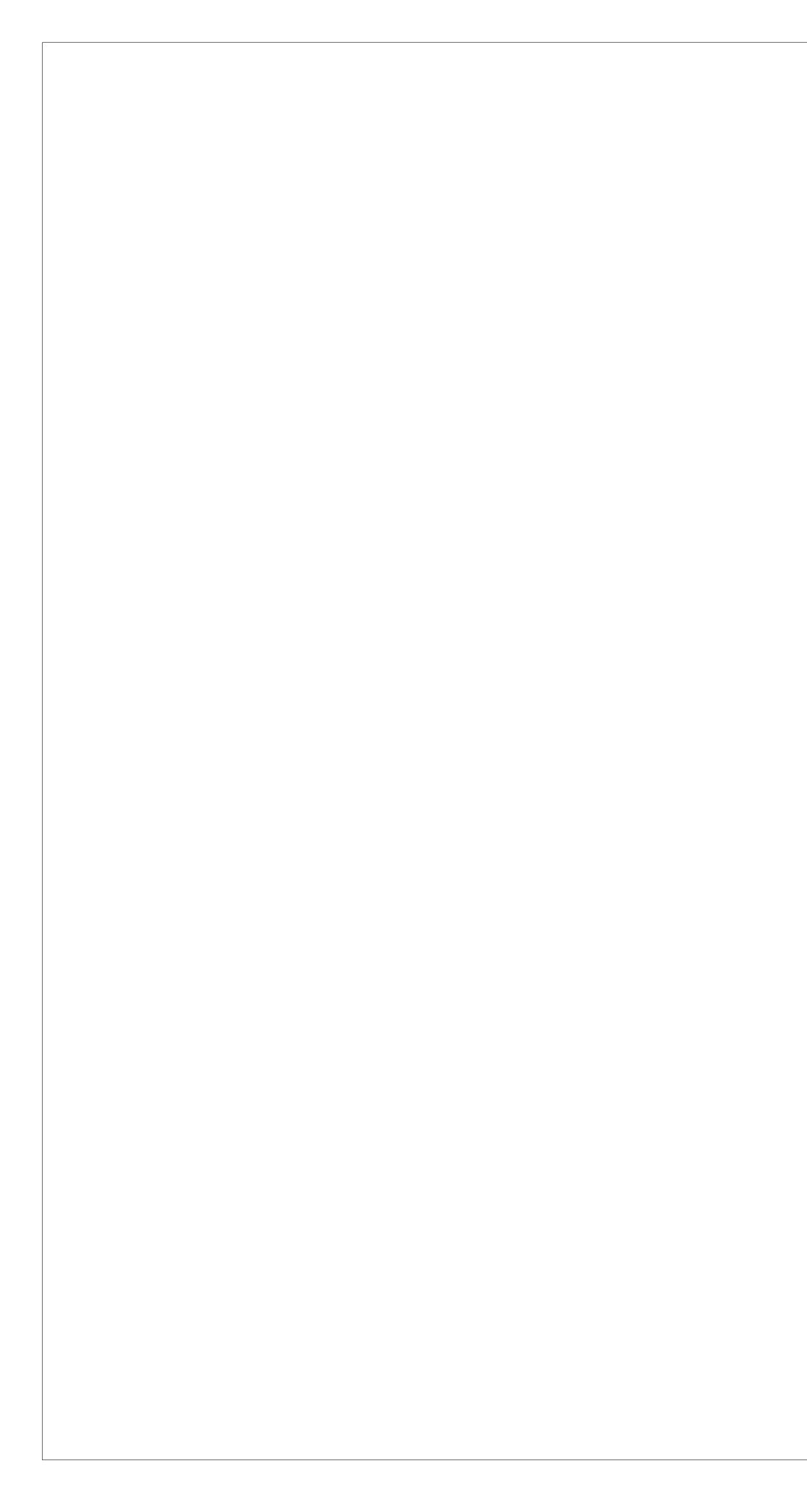
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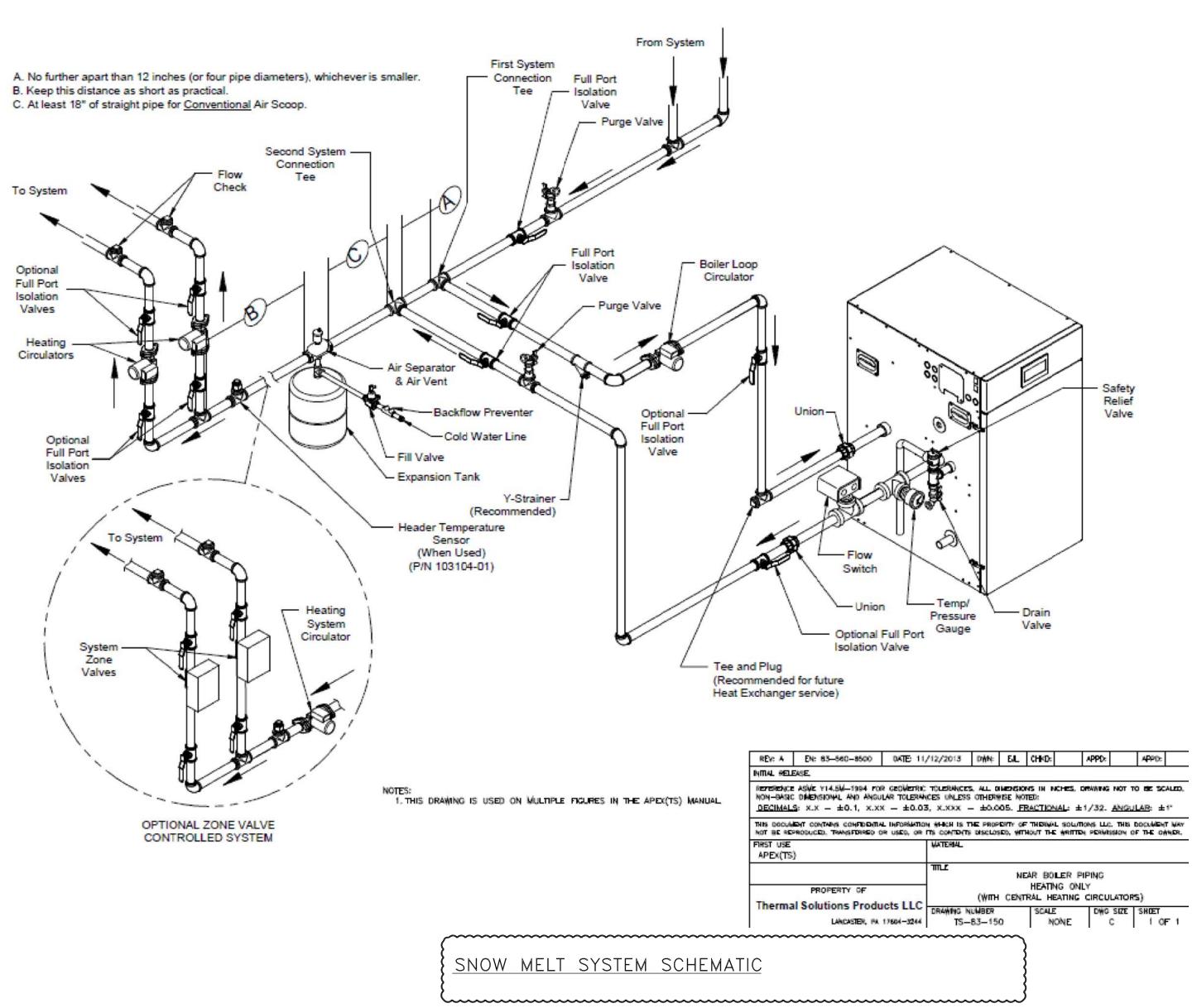
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Highland Township

01-28-2020 03-27-2020 05-04-2020 06-03-2020

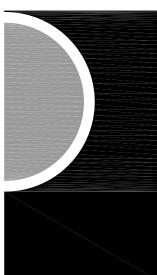
SHEET NO.	
M5-01	







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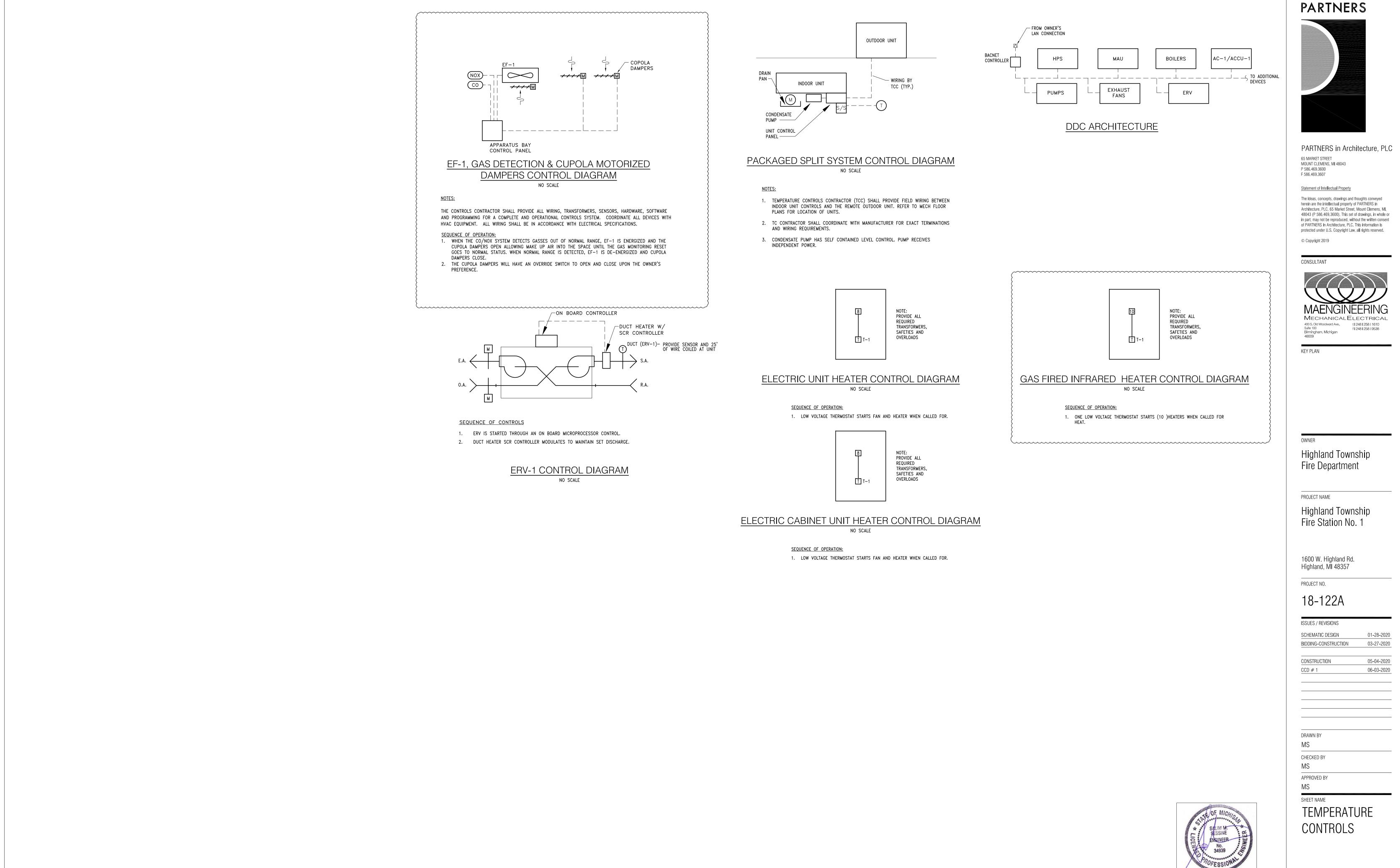
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SHEET NAME

MECHANICAL DETAILS

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SHEET NO.
M5–02
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sheet no. M6–01



HOT WATER HEATING SEQUENCE OF OPERATION:

NOTE: ALL SETPOINTS AND TIME INTERVALS SETPOINTS DESCRIBED IN THE SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS (CREATE REQUIRED VIRTUAL POINTS).

HOT WATER HEATING SYSTEM CIRC PUMPS (P-1 & P-2) / (P-3 & P-4) SHALL HAVE START/STOP CAPABILITY FROM THE DDC SYSTEM. THE HAND-OFF-AUTO SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. WHEN OA TEMP IS 55°F OR BELOW, ONE OF TWO SECONDARY PUMPS SHALL BE ACTIVATED BY THE DDC TO OPERATE CONTINUOUSLY. THE OTHER WILL SERVE AS STANDBY.

THE DIFFERENTIAL PRESSURE SENSOR (DPT-1) THRU THE DDC MODULATES THE ACTIVE PUMP VARIABLE SPEED DRIVE TO MAINTAIN THE DESIRED SYSTEM DIFFERENTIAL PRESSURE AS DETERMINED DURING SYSTEM BALANCING. DDC SHALL ALTERNATE PUMP OPERATION BASED ON RUNTIME HOURS OR AT THE BEGINNING OF EACH MONTH -OPERATOR SELECTABLE.

DDC SHALL MONITOR OPERATING STATUS OF EACH PUMP THRU ITS RESPECTIVE CURRENT SWITCH. UPON PUMP FAILURE, DDC SHALL ACTIVATE A FAILURE ALARM AND AUTOMATICALLY START THE STANDBY PUMP.

THE DDC SYSTEM ENABLES THE MASTER SEQUENCING PANEL WHEN THE OA TEMP IS 55°F OR BELOW. ABOVE 55°F THE DDC DISABLES THE SYSTEM. THE MASTER SEQUENCING PANEL SHALL ACTIVATE OR DEACTIVATE BOILERS AND BOILER STAGES AS REQUIRED TO

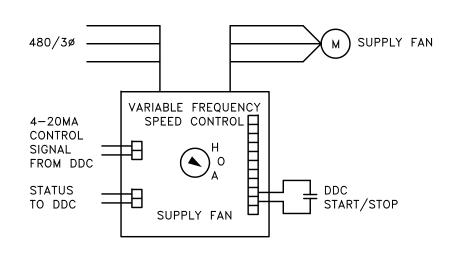
MAINTAIN HWH SUPPLY TEMP (T-1) SETPOINT. THE MASTER SEQUENCING PANEL SHALL INCLUDE OPERATOR SELECTABLE BOILER LEAD/LAG OPERATION OR FIRST

ON/FIRST OFF OPERATION. WHENEVER A BOILER CIRCUIT IS ACTIVATED, ITS RESPECTIVE PRIMARY CIRCULATION PUMP SHALL BE ACTIVATED BY

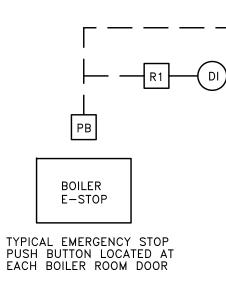
FACTORY WIRED PUMP RELAY. WHENEVER A BOILER IS DEACTIVATED, A TIME DELAY RELAY SHALL KEEP THE PUMP RUNNING FOR 10 MINUTES (ADJUSTABLE) TO DISSIPATE HEAT FROM THE DEACTIVATED BOILER.

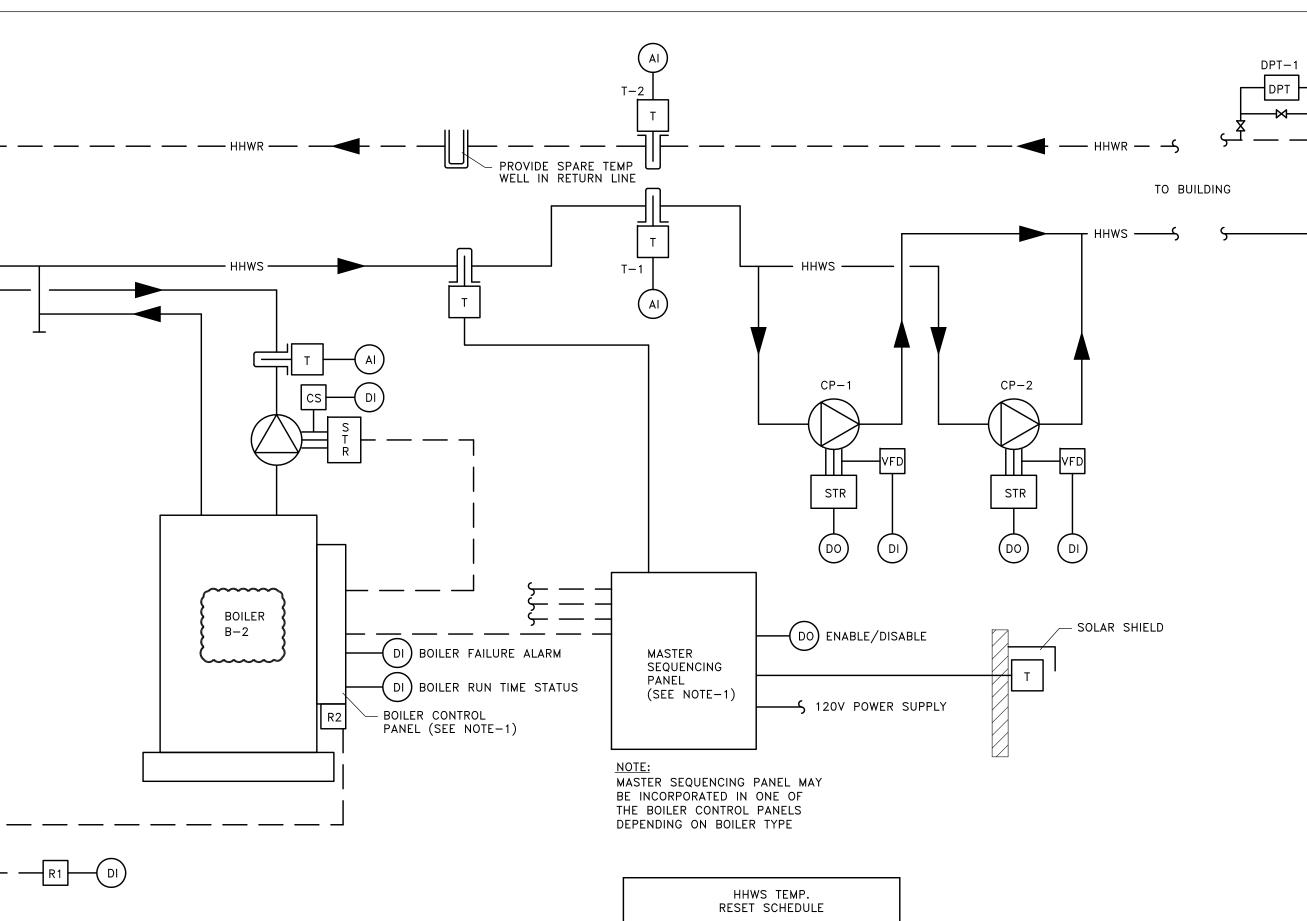
WHEN A BOILER IS ACTIVATED, BOTH SETS OF COMBUSTION AIR DAMPERS SHALL BE OPENED THRU HARDWIRED INTERLOCK. WHEN THE DAMPERS OPEN, END SWITCHES MAKE, AND THE BOILERS ARE ALLOWED TO START. DDC SHALL MONITOR BOILER RUN STATUS AND BOILER FAILURE ALARM AT EACH BOILER THROUGH DRY CONTACTS AVAILABLE IN THE BOILER CONTROL PANEL. BOILER FAILURE MONITORING SHALL INCLUDE "LOW WATER" AND "FLAME FAILURE".

THE EMERGENCY STOP PUSH BUTTON(S), LOCATED AT EACH BOILER ROOM DOOR(S), DEACTIVATES EACH BOILER WHENEVER THE PUSH BUTTON IS ACTIVATED. THE BOILERS REMAIN DE-ACTIVATED UNTIL THE PUSH BUTTON(S) IS MANUALLY RESET.





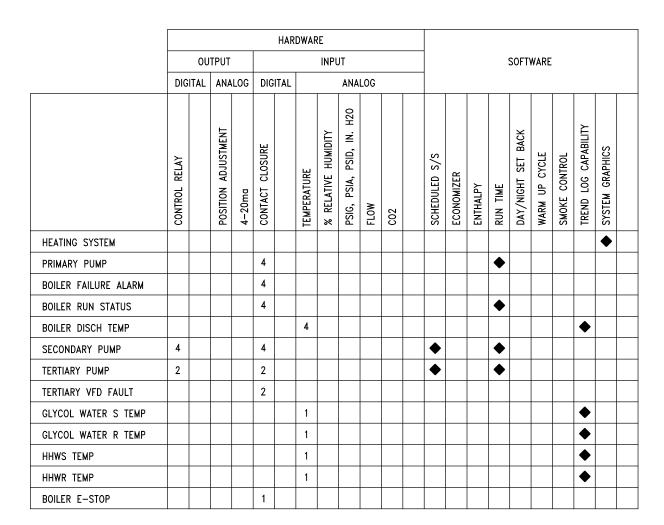




NOTE:

1. FURNISHED BY BOILER MANUFACTURER.

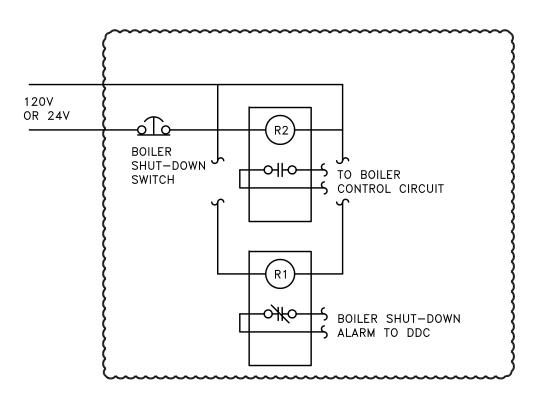
RI	HHWS TEMP. ESET SCHEDULE
OUTSIDE AIR TEMP	HOT WATER SUPPLY TEMPERATURE
≤ 0° F	180° F
≥ 60° F	130° F
RESET SCHEDULI	E SHALL BE ADJUSTABLE



ROOFTOP UNIT POINTS ARE OBTAINED VIA BACNET WORKS INTERFACE. COORDINATE WITH RTU MANUFACTURER.

GENERAL NOTES

- . 120 VOLT POWER FROM STARTER TRANSFORMER DENOTES TERMINAL AT STARTER
- DENOTES TERMINAL AT CONTROL PANEL
- 4. DENOTES FIELD WIRING 5. — DENOTES WIRING IN STARTER OR IN CONTROL PANEL 6. O DENOTES TERMINAL AT DEVICE



REMOTE BOILER EMERGENCY SHUTDOWN WIRUNG NO SCALE

NOTES:

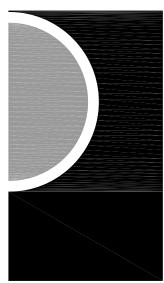
- 1. LOCATE A SWITCH AT EACH ENTRANCE JUST INSIDE BOILER ROOM. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF ROOM ENTRANCES. COORDINATE SWITCH LOCATION WITH ALL OTHER TRADES.
- 2. TEMPERATURE CONTROLS (TCC) SHALL PROVIDE SIGN (NAME PLATE) TO BE PLACED DIRECTLY ABOVE OR BELOW EACH PUSH BUTTON SWITCH THAT READS: "EMERGENCY BOILER SHUTDOWN".
- 3. TCC SHALL SUPPLY POWER TO CONTROL RELAY FROM EMERGENCY POWER CIRCUIT. REFER TO ELECTRICAL PANEL SCHEDULES AND COORDINATE WITH ELECTRICAL CONTRACTOR AS NECESSARY.
- 4. TCC SHALL WIRE BOILERS' CONTROL CIRCUITS (POWER FROM SECONDARY SIDE OF CONTROL TRANSFORMERS) THRU NORMALLY OPEN RELAY CONTACTS. TCC SHALL COORDINATE EXACT WIRING AND TERMINATION REQUIREMENTS WITH BOILER MANUFACTURER.
- 5. TCC SHALL MOUNT SHUTDOWN CONTROL RELAYS AT RESPECTIVE BOILER CONTROL PANELS.
- 6. TCC SHALL PROVIDE PUSH BUTTON SWITCH (PUSH TO LATCH TURN KEY OR PULL TO RELEASE) WITH MUSHROOM HEAD OPERATOR AND NORMALLY CLOSE (NC) CONTACTS. PROVIDE WITH PROPER ENCLOSURE. SEQUENCE OF OPERATION:

UNDER NORMAL OPERATING CONDITIONS THE CIRCUIT SHALL BE ENERGIZED AND THE RELAYS NORMALLY OPEN (NO) CONTACTS SHALL BE CLOSED. WHEN A SWITCH IS PUSHED (LATCHED) THE RELAY CONTACTS SHALL OPEN AND INTERRUPT EVERY BOILER'S CONTROL CIRCUIT. WHEN SWITCH IS RELEASED, THE RELAY SHALL BE ENERGIZED AND ITS NORMALLY OPEN CONTACTS SHALL CLOSE, ENERGIZING EVERY BOILER'S CONTROL CIRCUIT.

DDC SHALL ACTIVATE AN ALARM WHEN REMOTE SWITCH HAS BEEN PUSHED.



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ISSUES / REVISIONS SCHEMATIC DESIGN

01-28-2020 BIDDING-CONSTRUCTION 03-27-2020 CONSTRUCTION

05-04-2020 06-03-2020

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CCD # 1

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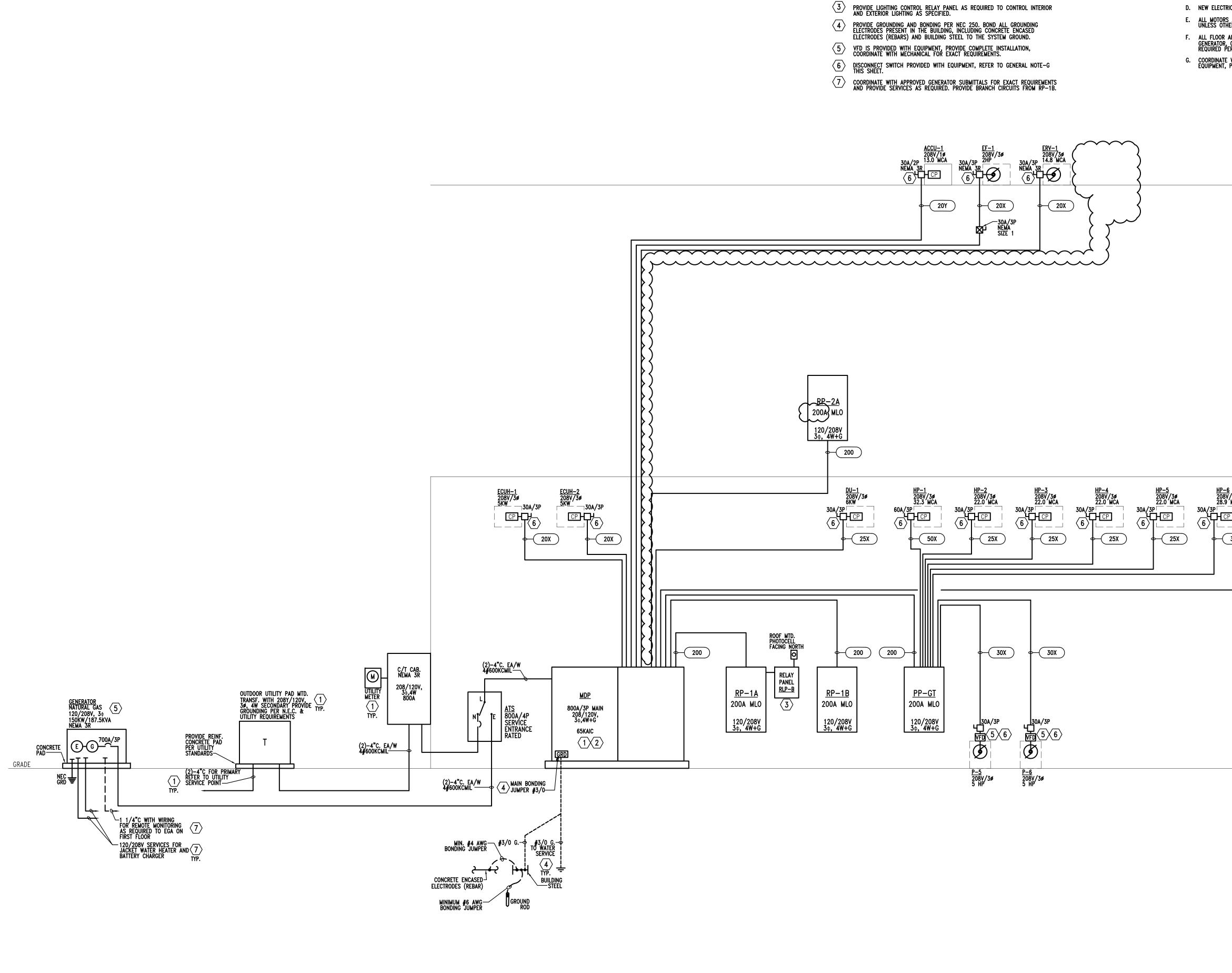
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SHEET NAME

TEMPERATURE CONTROLS

SHEET NO. M6-02



ELECTRICAL RISER DIAGRAM 1

Scale: No Scale E0-02

RISER KEY NOTES:

(1)

> PROVIDE ALL UNUSED SPACE IN MAIN SWITCHBOARDS MDP AND ALL DISTRIBUTION PANELS DP'S FULLY BUSSED FOR FUTURE USE.

2 PROVIDE CONCRETE PAD FOR ALL GROUND AND FLOOR MOUNTED EQUIPMENT: DISTRIBUTION PANELS, TRANSFORMERS, ETC. CONCRETE PADS NOT SPECIFICALLY INDICATED ON PLANS AND RISER DIA. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.

GENERAL RISER NOTES:

<u>HP-6</u> 208V/3ø 28.9 MCA

- 200

<u>RP-1C</u> 200A MLO

120/208V 3¢, 4₩+G

- A. REFER TO SHEETS E0.003 FOR WIRE SCHEDULES AND SHEETS E0.004 AND E0.005 FOR PANEL SCHEDULES.
- B. REFER TO VOLTAGE DROP SCHEDULE ON SHEET E0.001 AND ADJUST FEEDERS ACCORDINGLY.
- C. RUN ALL UNDERGROUND CONDUITS MIN. 4" UNDER SLAB.
- D. NEW ELECTRICAL SERVICE REQUIREMENTS TO BE COORDINATED WITH DTE ENERGY.
- E. ALL MOTORS AND EQUIPMENT INDICATED ON THIS RISER DIAGRAM ARE RATED 208V/3 $_{\varphi}$, unless otherwise noted.
- F. ALL FLOOR AND GROUND MOUNTED EQUIPMENT (SWITCHBOARDS, DISTRIBUTION PANELS, GENERATOR, CONTROL PANELS ETC.) TO BE PAD MOUNTED, PROVIDE CONCRETE PAD AS REQUIRED PER APPROVED EQUIPMENT SUBMITTAL, COORDINATE WITH ARCHITECT.
- G. COORDINATE WITH MECHANICAL FOR DISCONNECT SWITCHES SUPPLIED WITH THE EQUIPMENT, PROVIDE FOR ALL AS INDICATED IF NOT INCLUDED WITH THE EQUIPMENT.

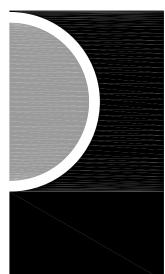
ROOF

ROOF

FIRST FLOOR



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SHEET NAME

ELECTRICAL RISER DIAGRAM

SHEET	NO.
E0-	-02

	NO:	75810	DATE:	06/04/20					MOUNTING: SURF. RP-2A
BRA NO.	ANCH CI		BUS A	WATTS BUS B	BUS C				REMARKS
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3		20		300		L			LIGHTING
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7	1	20							SPARE
9	1	20							SPARE
11	1	20							SPARE
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37	1	20	1200						DOOR OPERATOR
39	1	20	(1200					DOOR OPERATOR
41	1	20	<u> </u>		800	\square			DOOR OPERATOR
43	1	20	400			\square			CEILING J-BOX
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61	1								SPACE
63	1								SPACE
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14 16 18	1	20 20		1680	1680			E E	ENGINE EXHAUST ENGINE EXHAUST
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14 16 18 20 22 24 26 28 30 32 32 34 36 38	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
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14 16 18 20 22 24 26 28 30 32 34 36 38 40 42	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE SPARE SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE SPARE SPARE SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE SPARE SPARE SPARE SPARE SPARE
14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 50 52 54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRHAUST IRHA IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 50 52 54 56 58	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 50 52 54 56 58 60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 50 52 54 56 58	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 50 52 54 56 58 60	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64	1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66	1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70	1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72	1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-10 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 70 72 74	1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-10 IRH-10 SPARE S
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 70 72 74 76	1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-10 IRH-10 SPARE SPAR
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78	1 1 1 <td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td> <td>1680 1680</td> <td>1680</td> <td>1680 576</td> <td></td> <td></td> <td></td> <td>ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE</td>	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80	1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680	1680	1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	1 1 <td< td=""><td>20 20 20 20 20 20 20 20 20 20 20 20 20 2</td><td></td><td></td><td>1680 576</td><td></td><td></td><td></td><td>ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE</td></td<>	20 20 20 20 20 20 20 20 20 20 20 20 20 2			1680 576				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 LIGHTIN	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2							ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-10 IRH-2 IRH-9 IRH-10 SPARE SP
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 LIGHTIN	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680 576 576 350 1,860		1680 576 576 				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-10 IRH-2 IRH-9 IRH-10 SPARE SP
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 LIGHTIN	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2							ENGINE EXHAUST ENGINE EXHAUST
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 LIGHTIN	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680 576 576 350 1,860		1680 576 576 				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-10 IRH-2 IRH-9 IRH-10 SPARE SP
14 16 18 20 22 24 26 28 30 32 34 36 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 LIGHTIN RECEP EQUIPN	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680 576 576 350 1,860 8,416	1680	1680 576 576 1,620 8,912				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-1 IRH-1 IRH-1 IRH-2 IRH-9 IRH-10 SPARE
14 16 18 20 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 LIGHTIN	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1680 1680 576 576 350 1,860		1680 576 576 				ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST ENGINE EXHAUST IRH-10 IRH-10 SPARE SPA

PROJE PROJ N		HIGHL 75810	AND TWP F	-S-1 06/04/20	200A	-	MLC	,	CLASS: 208/120V,3PH,4W+G. PANEL: MOUNTING: SURFACE RP-1C
BRA	NCH CI	RC.	5110.4	VA	5110.0		OD		REMARKS
NO. 1	POLES	BKR. 20	BUS A 700	BUS B	BUS C	L	R	E	LIGHTING
3	1	20		784		L			LIGHTING
5	1	20			700	L			LIGHTING
7	1	20 20	1320	500				E	F-1 LIGHTING VIA RLP
9 11	1	20		560	380	L			LIGHTING VIA RLP
13	1	20	200		300			Е	FAN
15	1	20		1200		L			SIGN
17	1	20			1200	L			SIGN
19 21	1	20 20		400				F	SPARE EF-3
23	1	30		400	1680				EF-4
25	1	20	1000						O.H. DOOR
27	1	20		1000					O.H. DOOR
29	1	20	4000		1000				O.H. DOOR
31 33	1	20 20	1000	540			R	E	O.H. DOOR 3 REC.
35	1	20		540	400		IX.	Е	CELING J-BOX
37	1	20	400						CELING J-BOX
39	1	20		540			R		3 REC.
41	1	20	400		360		R		2 REC.
43 45	1	20 20	400	400					CELING J-BOX CELING J-BOX
45 47	1	20	\sim	~~~~	$\sim \sim $		R		
49	1	20	576					Е	IRH-3
51	1	20		576					IRH-4
53	1	20	670		576				IRH-5
55 57	1	20 20	576	$\sim \infty \sim$	\cdots		R		IRH-6
57	1	20		000 -	600		71		DOOR OPENER
61	1	20	360				R		2 REC.
63	1	20		540			R		3 REC.
65	L-j-	20 20	$\sim \sim$	\sim	360		R	\mathbf{Y}	
67 69	1	20 20	576	576					IRH-7 IRH-8
71	1	20		570				E	SPARE
73	2		960					Е	
75				960					EXTRACTOR 8.0 A
77	\leq	15			960			Е	004.05
79) 81 (1								SPACE SPACE
83									SPACE
		\sim	\sim	\sim					
2	1	20	720	000			R		4 REC.
4	1	20		360	400		R		2 REC. 2 M43WP REC.
6 8	1	20	400		400		R	E	
10				400					CEILING J-BOX
12		30			400			Е	
14	2	\square	400	100				E	
16 18		30		400	400			E	CEILING J-BOX
20	2		2500		400		\vdash		DRYER
22		30		2500				Е	
24	2				2500				DRYER
26 28		30	~2500~	\sim	$\sim\sim$		\sim	F	SPACE
30	1								SPACE
32			$\sim_{\pm 0}$					솟	
34				400					CEILING J-BOX
36		30			400			Е	
38	2		400	100				E	
40 42		30		400				E	
42	1	20			408~	H	\vdash		SPARE
44	1	20	\cdots	1200	\sim			Ł	WASHER SPOINT
48	1	20			1200				WASHER GFCI
50	1	20	720				R		4 REC.
52	1	20		540			R		3 REC.
54 56	1	20			540		R		3 REC.
<u></u>	1	20 20	900	360			R R		5 REC. 2 REC.
	1	20		500	540		R		3 REC.
58		20	540		0.0		R		3 REC.
	1			540			R		3 REC.
58 60 62 64	1	20			540		R		3 REC.
58 60 62 64 66	1 1 1	20					R	-	2 REC.
58 60 62 64 66 68	1 1 1 1	20 20	360	200					CO/NO2 SENSOR EF-2
58 60 62 64 66 68 70	1 1 1 1 1	20 20 20	360	200	360				1.1.76
58 60 62 64 66 68 70 72	1 1 1 1 1 1	20 20 20 20		200	360				
58 60 62 64 66 68 70 72 74	1 1 1 1 1	20 20 20 20 20	360 400	200	360				FS/TS AND /AV SPARE
58 60 62 64 66 68 70 72	1 1 1 1 1 1 1 1	20 20 20 20		200	360				FS/TS AND /AV
58 60 62 64 66 68 70 72 74 76	1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20		200	360				FS/TS AND /AV SPARE
58 60 62 64 66 68 70 72 74 76 78 80 82	1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20		200	360				FS/TS AND /AV SPARE SPARE SPARE SPARE SPARE
58 60 62 64 66 68 70 72 74 76 78 80 82 84	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	400						FS/TS AND /AV SPARE SPARE SPARE SPARE SPARE
58 60 62 64 66 68 70 72 74 76 78 80 82 84 GHTIN	1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 LOAE	20 20 20 20 20 20 20 20 20 20 20 20	400	2,544	2,280				FS/TS AND /AV SPARE SPARE SPARE SPARE SPARE 5524 VA NEC 220.42 3883 V
58 60 62 64 66 68 70 72 74 74 76 78 80 82 84 GHTIN EC. LC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 LOAE DAD	20 20 20 20 20 20 20 20 20 20 20 20	400 700 3,600	2,544 4,020	2,280 3,100				FS/TS AND /AV SPARE SPARE SPARE SPARE SPARE 5524 VA NEC 220.42 3883 V 10720 VA NEC 220.44 = 10360 V
58 60 62 64 66 68 70 72 74 74 76 78 80 82 84 GHTIN EC. LC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 LOAE DAD	20 20 20 20 20 20 20 20 20 20 20 20	400	2,544	2,280				FS/TS AND /AV SPARE SPARE SPARE SPARE SPARE 5524 VA NEC 220.42 3883 V 10720 VA NEC 220.44 = 10360 V
58 60 62 64 66 68 70 72 74 76 78 80 82 84	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 LOAE DAD	20 20 20 20 20 20 20 20 20 20 20 20	400 700 3,600	2,544 4,020	2,280 3,100				FS/TS AND /AV SPARE SPARE SPARE SPARE SPARE 5524 VA NEC 220.42 3883 V 10720 VA NEC 220.44 = 10360 V
58 60 62 64 66 68 70 72 74 76 78 80 82 84 GHTIN EC. LC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 LOAE DAD	20 20 20 20 20 20 20 20 20 20 20 20	400 700 3,600	2,544 4,020	2,280 3,100				FS/TS AND /AV SPARE SPARE SPARE SPARE SPARE 5524 VA NEC 220.42 3883 V 10720 VA NEC 220.44 = 10360 V
58 60 62 64 66 68 70 72 74 76 78 80 82 84 GHTIN EC. LC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 LOAE DAD 1 ENT	20 20 20 20 20 20 20 20 20 20 20 20	400 700 3,600	2,544 4,020	2,280 3,100				FS/TS AND /AV SPARE SPARE SPARE SPARE SPARE 5524 VA NEC 220.42 3883 V 10720 VA NEC 220.44 = 10360 V

PROJE		HIGHL	AND TWP F	S-1	200A		NLC)	CLASS:	208/120V,3F	PH,4W+G.	PANEL:
PROJ N		75810	DATE:	06/04/20					MOUNTING	S: SUR	FACE	PP-GT
	NCH CI			VA			OD			F	REMARKS	
NO.	POLES	BKR.	BUS A	BUS B	BUS C	L	R					
1	3		3325					E				
3				3325					HP-1			32.6 MCA
5		50			3325			E				
7	3		2244	0044				E				00.0.1404
9 11		25		2244	2244			E	HP-2			22.0 MCA
13	3	25	2244		2244	$\left \right $		E				
15	3		2244	2244					HP-3			22.0 MCA
17		25		2277	2244			E	111 -5			22.0 1074
19	3	20	2244		2244			E				
21				2244					HP-4			22.0 MCA
23		25			2244			E				
25	3		2244					Е				
27				2244				Е	HP-5			22.0 MCA
29		25			2244			Е				
31	3		2948					Е				
33				2948					HP-6			28.9 MCA
35		30			2948			Е				
37	1								SPACE			
39	1								SPACE			
41	1								SPACE			
			0400					_				
2	3		2100	2100				E	DE		5 HP	
<u>4</u> 6		30		2100	2100			E	P-5		SHP	
8	3	30	2100		2100	$\left \right $		E				
10	5		2100	2100					P-6		5 HP	
12		30		2100	2100			E	1-0		511	
14	1				2100			-	SPACE			
16	1								SPACE			
18	1								SPACE			
20	1								SPACE			
22	1								SPACE			
24	1								SPACE			
26	1								SPACE			
28	1								SPACE			
30	1								SPACE			
32	1	20							SPARE			
34	1	20							SPARE			
36	1	20							SPARE			
38	1	20							SPARE			
40	1	20							SPARE			
42	1	20							SPARE			
	IG LOAD					<u> </u>				NEC 220.42		
REC. LO			10.110	40.440	10.170	<u> </u>			500 47 14	NEC 220.44	=	1007011
EQUIPN	IENI		19,449	19,449	19,449				58347 VA	80%		46678 VA
						<u> </u>						
TOTAL	LOAD		19,449	19,449	19,449				58347 VA		=	46678 VA
									162 A			130 /
						00	ATAID		TED LOAD			EMAND LOAD

POSITION	CIRCUIT E FRAME 200A/3P 200A/3P 200A/3P	BREAKER TRIP 200 A	EQUIPMENT	CONNECTED LOAD	DEMAND LOAD	
1 2 2 2 3 2 4 2 5 2 6 8 9 10	200A/3P 200A/3P					FEEDER SIZE (COPPER)
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200A/3P	200 A	1	(KVA)	(KVA)	(SEE RISER FOR AL)
3 2 4 2 5 2 6 8 9 10			PP-GT	58.3	46.7	2"C, 4#3/0 + 1#6G
4 2 5 2 6 8 9 10	200A/3P	200 A	RP-1A	48.5	40.4	2"C, 4#3/0 + 1#6G
5 ; 6 ; 9 ; 10 ;		200 A	RP-1B	42.0	32.6	2"C, 4#3/0 + 1#6G
6 8 9 10	200A/3P	200 A	RP-1C	52.2	44.1	2"C, 4#3/0 + 1#6G
8 9 10	200A/3P	200 A	RP-2A	32.8	27.2	2"C, 4#3/0 + 1#6G
9 10	30A/3P	20 A	ERV-1 14.8 MCA	4.5	3.6	3/4"C, 3#12 + 1#12G
10	30A/3P	30 A	EF-1 2.0 HP	2.8	2.2	3/4"C, 3#10 + 1#10G
1.0	30A/2P	<u>154</u>	ACEU 1 13.0 MCA	2:3	18	3/4"C, 3#12 + 1#12G
10	60A/3P		SPARE			
	30A/3P	25 A		~~~	~~ <u>4.8</u> ~~~	
11	30A/3P	20 A	ECUH-1 5.0KW	5.0	4.0	3/4"C, 3#12 + 1#12G
12	30A/3P	20 A	ECUH-2 5.0KW	5.0	4.0	3/4"C, 3#12 + 1#12G
13	30A/3P		SPARE			
14	60A/3P		SPARE			
15	30A/3P		SPARE			
16	3P		SPACE			
17	3P		SPACE			
18	3P		SPACE			
			TOTAL DEMAND LOAD:	260 KVA	212 KVA	

PROJE PROJ N	1 0:	75810	AND TWP F DATE:	06/04/20	200A		MLC		CLASS: 208/120V,3PH,4W+G. PANEL: MOUNTING: SURFACE RP-1B
			DUC A	VA	DUIG C				REMARKS
<u>NO.</u>	POLES	20 BKR.	BUS A 600	BUS B	BUS C	L	R	E	LIGHTING
3	1	20	000	679		L			LIGHTING
5	1	20		0/0	485	L			LIGHTING VIA RLP
7	1	20	500			L			LIGHTING VIA RLP
9	1	20							SPARE
11	1	20							SPARE
13	1	20	400			L			TRAFFIC LIGHTS
15	1	20			4000				SPARE
17	1	20 20	720		1200	L			REC. FOR SIGN VIA RLP 5 REC.
19 21	1	20	720	540		-	R R		3 REC.
23	1	20			1080		R		6 REC.
25	1	20	1200		1000			Е	DOOR OPERATOR
27	1	20		1200					DOOR OPERATOR
29	1	20			720		R		4 REC.
31	1	20	540				R		3 REC.
33	1	20		900			R		5 REC.
35	1	20			720		R		4 REC.
37 39	1	20 20	900	540			R R		5 REC.
<u> </u>	1	20		540	720		R		5 REC
43	1	20	540		120	-	R		3 REC.
45	1	20		1080		-	R		6 REC.
47	1	20			540		R		3 REC.
49	1	20	540				R		3 REC.
51	1	20		540			R		3 REC.
53	1	20			1080		R		4 REC.
55	1	20	100	100					STF-1
57 59	1	20 20		400	400	-			PA SYSTEM RADIO SYSTEM
59 61	1	20			400	-	\vdash	C	SPARE
63	1	20				-			SPARE
65	1	20				-			SPARE
67	1	•					\vdash		SPACE
69	1								SPACE
71	1								SPACE
73	1								SPACE
75	1								SPACE
77	1								SPACE
79 81	1								SPACE SPACE
83	1					_			SPACE
00	•								
2	1	20	900				R		5 REC.
4	1	20		400			R		2 REC.
6	1	20			1000			Е	PROJECTOR
8	1	20	720				R		4 REC.
10	1	20		1080	1000		R		6 REC.
12	1	20	900		1080		R		6 REC.
14 16	1	20 20	900	540			R R		5 REC. 3 REC.
18	1	20		540	900	-	R		5 REC.
20	1	20	1000					Е	COFFEE
22	1	20		1000					COFFEE
24	1	20			720		R		4 REC.
26	1	20	540				R		3 REC.
28	1	20		1000					TBB
30	1	20	102		1000			Е	TBB
32	1	20	400	000			R		2 REC.
34	1	20		800	000		R	F	2 REC.
36 38	1	20 20	600		900	-	\vdash		EWC EQUIPMENT
40	1	20	000	900					EQUIPMENT
40	1	20		900	800	-			REF.
42	1	20	600		000	-	\vdash		EQUIPMENT
44	1	20		900					EQUIPMENT
48	2				1125				EBB-1
50		20	1125					E	
52	2	/		1125					EBB-1
54		20			1125			Ε	
56	1	20							SPARE
58	1	20							SPARE
60	1	20							SPARE
62	1	20							SPARE
64	1	20							SPARE
66	1	20				-			SPARE
68	1	20							SPARE
70 72	1	20 20							SPARE SPARE
72	1	20				-	\vdash	_	SPACE
74	1								SPACE
78	1					-			SPACE
80	1						\vdash		SPACE
82	1								SPACE
84	1								SPACE
	IG LOAD		1,500	679	1,685				3864 VA NEC 220.42 3302 VA
REC. LC			6,700	6,420	7,560			_	20680 VA NEC 220.44 = 15340 VA
EQUIPM			4,625	6,525	6,350				17500 VA 80% 14000 VA
TOTAL I	LOAD		12,825	13,624	15,595				42044 VA = 32642 VA
						~~			117 A 91 A
						со	NN	EC.	117 A 91 A FED LOAD DEMAND LOAD

ROJ N BRA		75810	DATE:	06/04/20					MOUNTING); SI	RFACE	RP-1A
	NCH CI	RC.		VA		C	OD	E		30		N/-1A
NO.	POLES	BKR.	BUS A	BUS B	BUS C	L	R	E			REMARKS	
1	1	20	374			L			LIGHTING			VIA RLP
3	1	20		457		L			LIGHTING			
5	1	20			553	L			LIGHTING			
7	1	20	225	070		L			EXTERIOR			
9	2	20		270	070	L			EXTERIOR			VIA RLP
11		20	105		270	L			EXTERIOR			VIA RLP
13 15	1	20 20	195	200		L			EXTERIOR REC.	LIGHTING		VIA RLP
15	1	20		200	400		R	-	DEDIC. RE	<u>^</u>		
17	1	20	1200		400	-			2 REC.	U.		
21	1	20	1200	900					MW			
23	1	20		900	1000				REC.			
25	1	20	1200		1000	-			OVEN TOA	ST		
27	1	20	1200	720			R		4 REC.	51		
29	1	20		120	720	-	R		4 REC.			
31	1	20	360		720		R		2 REC.			
33	1	20		720			R		4 REC.			
35	1	20			100				GWH-1			
37	1	20	720				R		4 REC.			
39	1	20		600			R		2 REC.			
41	1	20			900			Е	WASHER		GFCI	
43	2		2500					Е	DRYER			
45		30		2500				Е				
47	1	20			900			Е	REFR.		GFCI	
49	1	20	900					Е	REFR.		GFCI	
51	1	20		1000				Е	REC.			
53	1	20			1200				GD			
55	1	20	400						FACP			
57	1	20		400					DEDIC. RE			
59	1	20	100		400		$\mid \mid$		DEDIC. RE			
61	1	20	400					E	DEDIC. RE	C.		
63	1	20				-			SPARE			
65	1	20	1000			-	$\mid \mid$		SPARE			
67 69	1	20 20	1200			L			SITE SIGN SPARE			VIA RLP
71	1	20							SPARE			
73	1	20							SPACE			
75	1					-			SPACE			
77	1								SPACE			
79	1								SPACE			
81	1					-			SPACE			
83	1								SPACE			
									OFACE			
2	1	20	540				R		3 REC.			
4	1	20	0.0	540		-	R		3 REC.			
6	1	20			540	-	R		3 REC.			
8	1	20	540				R		3 REC.			
10	1	20	-	540			R		3 REC.			
12	1	20			540		R		3 REC.			
14	1	20	540				R		3 REC.			
16	1	20		720			R		4 REC.			
18	1	20			600		R		REC.			
20	1	20	720				R		4 REC.			
22	1	20		600			R		REC.			
24	1	20			360		R		2 REC.			
26	1	20	540				R		3 REC.			
28	1	20							SPARE			
30	1	20	100		600		R		REC.			
32	1	20	400	000		_	R	-	REC.			
34	1	20		600	\sim	\sim	M	F		\sim		
36	1	20	4000						SPARE			
38	3		1000	4000				Ē				
40				1000	4000				ECUH-1			
42	-	20	200		1000	-		Е	2 050			
44	1	20	360			-	R		2. REC.			
46 48	1	20				-			SPARE SPARE			
	1	20				-	\vdash					
50	1	20				-			SPARE			
52	1	20				-			SPARE			
54	1	20	4050			-	\vdash	-	SPARE			2/4 UD
56	1	30	1656	4050		-			P-1			3/4 HP
58		-30-	\sim	1656	\sim				$\sim \sim \sim$	$\sim\sim\sim$	$\sim\sim$	
60		20					$\mid \mid$		SPARE			
62	1 (20							SPARE			
64	1		\sim	\sim	\sim	\sim	М	\sim	SPACE	\sim	\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
66	1							_	SPACE			
68	3	\square	2667					Е				
70				2667					RANGE			
72	\sim	50			2667			Е				
74	2	\square	520					Е	CP-1			
76		20		520				Е				
78	1								SPACE			
80	1								SPACE			
82	1								SPACE			
84	1								SPACE			
	IG LOAD		1,994	727	823				3544 VA	NEC 220.42		3190 VA
C. LC	DAD		4,720	4,640	3,360				12720 VA	NEC 220.44		11360 VA
UIPM			12,443	11,243	8,567				32252 VA	80%		25802 VA
	LOAD		19,157	16,610	12,750				48516 VA		=	40352 VA

PARTNERS

PARTNERS in Architecture, PLC 65 MARKET STREET MOUNT CLEMENS, MI 48043 P 586.469.3600

Statement of Intellectual Property

F 586.469.3607

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KEY PLAN

OWNER

Highland Township Fire Department

PROJECT NAME

Highland Township Fire Station No. 1

1600 W. Highland Rd. Highland, MI 48357

_____ PROJECT NO.

18-122A

ISSUES / REVISIONS SCHEMATIC DESIGN 01-28-2020 03-27-2020 BIDDING-CONSTRUCTION 05-04-2020 CONSTRUCTION 06-03-2020 CCD #1 ----------DRAWN BY NH -----CHECKED BY

ΕK APPROVED BY

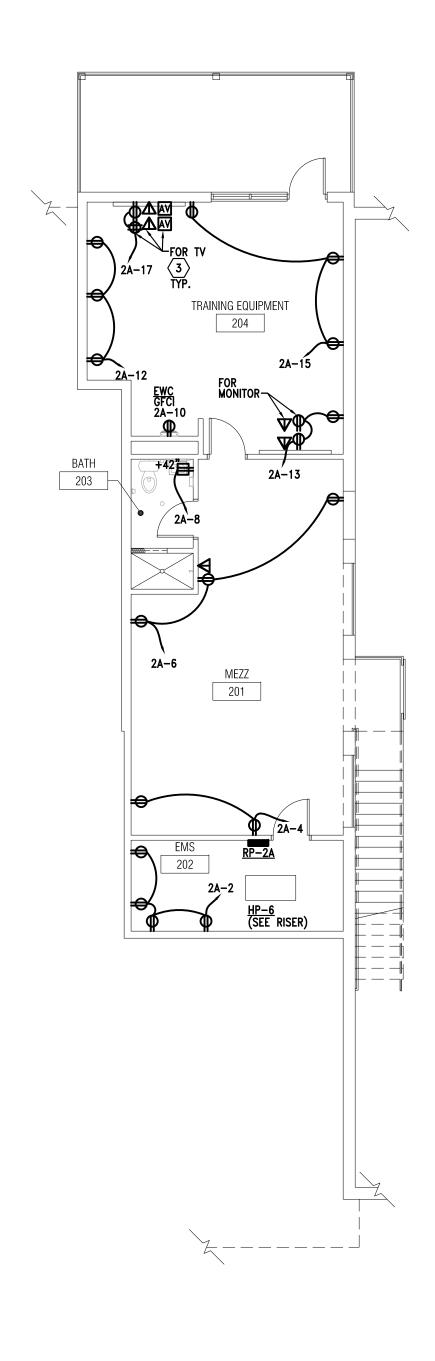
ΕK

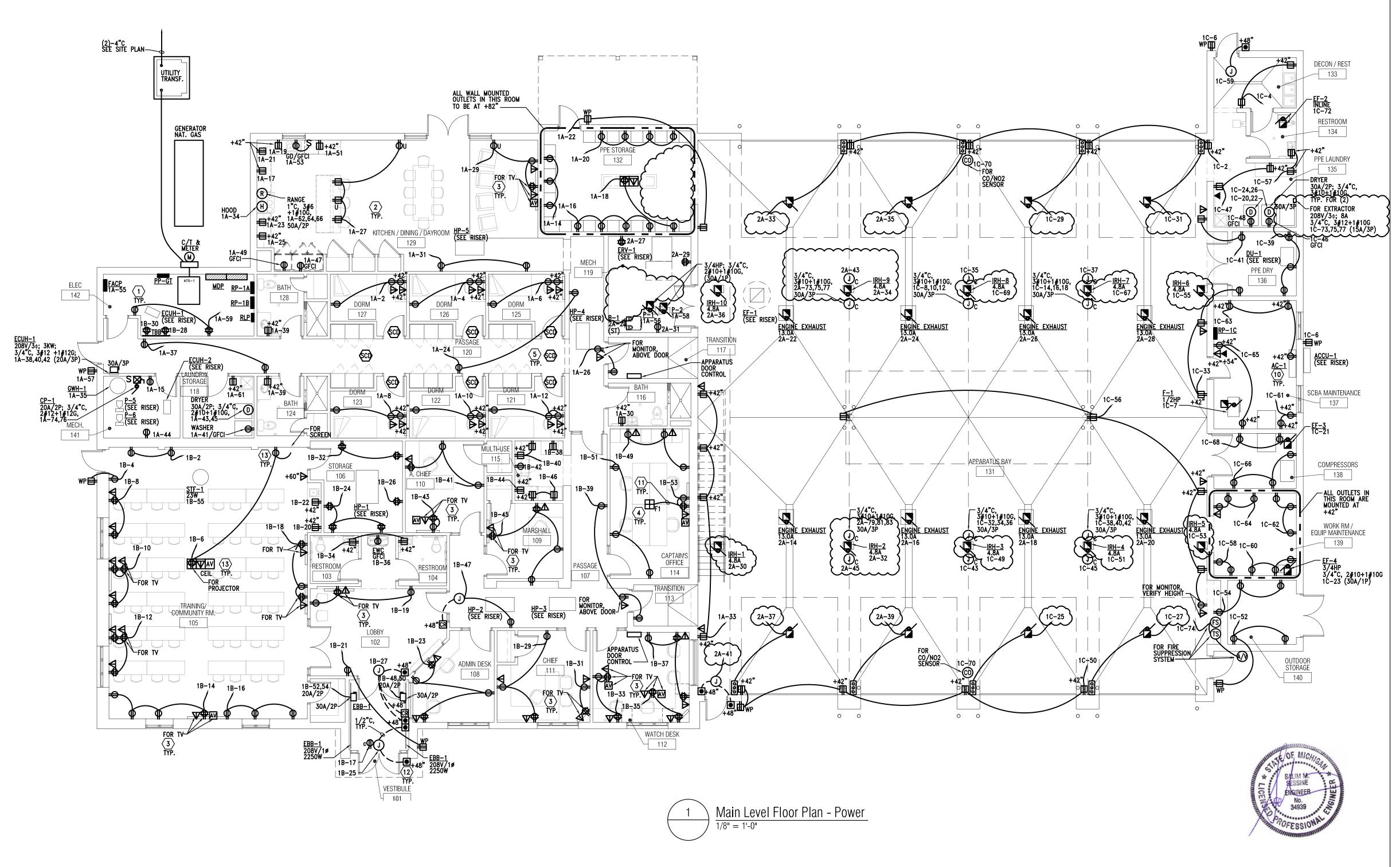
SHEET NAME

ELECTRICAL PANEL SCHEDULES

SHEET	NO.
E0-	-04







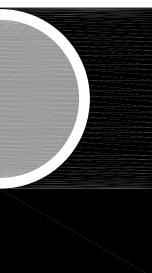


Mezzanine Level Floor Plan - Power 1/8" = 1'-0"

KEYED POWER NOTES

- (1) EXACT LOCATION AND REQUIREMENTS FOR EQUIPMENT TO BE COORDINATED WITH EQUIPMENT VENDOR, APPROVED SUBMITTALS AND NAMEPLATE DATA. INFORMATION INDICATED ON THESE PLANS IS FOR REFERENCE ONLY.
- 2 ALL RECEPTACLES LOCATED WITHIN 6'-0" OF A WATER SOURCE AND ALL IN THE KITCHENS SHALL BE GFR TYPE. PROVIDE GFR RECEPTACLES REGARDLESS OF SYMBOL USED ON PLAN FOR THESE LOCATIONS. FOR LOCATIONS THAT ARE NOT ACCESSIBLE, LOCATE BLANK PLATE GFR ABOVE THE RECEPTACLE AT +44"AFF OR NEAR ROOM WALL SWITCH(ES) OR PROVIDE GFCI BRANCH BREAKERS IN PANELBOARDS AS DIRECTED BY OWNER TO COMPLY WITH NEC 210.8.
- 3 DUPLEX RECEPTACLES AND DATA OUTLETS FOR FLAT SCREEN TV SHALL BE MOUNTED AT 5'-0"AFF UNLESS OTHERWISE NOTED, COORDINATE WITH ARCHITECT/OWNER FOR EXACT QUANTITIES, LOCATIONS AND MOUNTING HEIGHTS.
- $\langle 4 \rangle$ exact locations for all floor outlets to be coordinated with architect/owner. 5 PROVIDE (2)-20A/1P, 120V DEDICATED BRANCH CIRCUITS FOR ALL FIRE/SMOKE DAMPERS, WIRE TO RP-1A-** REFER TO PANEL SCHEDULES, COORDINATE AND REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES. NOT ALL FIRE/SMOKE DAMPERS ARE INDICATED ON THESE PLANS.
- $\langle 6 \rangle$ COORDINATE WITH MECHANICAL FOR EXACT REQUIREMENTS FOR FIRE PROTECTION SYSTEM, INCLUDING NUMBER OF FLOW/TAMPER SWITCHES.
- PROVIDE POWER FOR DRY PIPE SYSTEM COMPRESSOR, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR. LOCATION INDICATED ON PLAN IS FOR REFERENCE ONLY.
- 8 EXACT LOCATIONS FOR FIRE ALARM CONTROL AND ANNUNCIATOR PANELS AND SECURITY SYSTEM PANELS TO BE COORDINATED WITH ARCHITECT/OWNER. PROVIDE FLUSH MOUNTING FOR ALL, UNLESS LOCATED IN UNFINISHED SPACES.
- 9 EXACT LOCATIONS FOR ALL ELECTRICAL EQUIPMENT TO BE COORDINATED, REFER TO GENERAL NOTE-F.
- $\stackrel{(10)}{\longrightarrow}$ indoor ac unit is fed from the outdoor accu unit, coordinate with mechanical for complete installation requirements, including interwiring of the unit.
- $\langle 11 \rangle$ RUN 1 1/4"C FROM LOW VOLTAGE COMPARTMENT BETWEEN FLOOR BOX AND MONITOR BOX, RUN CONCEALED IN CEILING AND WALL. COORDINATE WORK WITH SUITE BELOW.
- 12 PROVIDE DOUBLE GANG J-BOX WITH SINGLE MUD RING @48" AFF FOR CARD READER AND DOOR PUSH BUTTON, RUN 1/2"C FROM CARD READER/PUSH BUTTON TO DOOR OPERATOR OR STRIKE ACTUATOR FOR LOW VOLTAGE WIRING. PROVIDE 120V POWER IN THE CEILING FOR DOOR OPERATOR OR STRIKE AS INDICATED, FOR MORE DETAILS REFER TO SHEET E5-01. ALSO PROVIDE REQUIRED WIRING FOR INTERCOM REMOTE UNLOCK SYSTEM COORDINATE WITH DOOR INSTALLER.
- (13) PROVIDE POWER, DATA/AV AND CONTROLS FOR PROJECTOR AND PROJECTION SCREEN. EXACT LOCATIONS AND REQUIREMENTS TO BE COORDINATED WITH ARCHITECT/OWNER.

- GENERAL POWER NOTES: A. REFER TO SHEET E.001 FOR ELECTRICAL LEGEND.
- B. PROVIDE COMPLETE ADDRESSABLE FIRE ALARM SYSTEM FOR THE BUILDING. FIRE ALARM SYSTEM SHALL INCLUDE ALL CONTROL, MONITORING, POWER SUPPLIES, INITIATING DEVICES, INDICATING APPLIANCES, CONTROL MODULES AND WIRING AS REQUIRED BY AUTHORITIES HAVING JURISDICTION FOR AN APPROVED INSTALLATION, REFER TO SPECIFICATIONS. SYSTEM SHALL BE LAYED OUT ON A PERFORMANCE BASIS, DEVICES INDICATED ON PLANS ARE FOR REFERENCE ONLY.
- C. PROVIDE FIRE STOPPING SYSTEM WHERE REQUIRED TO MAINTAIN THE FIRE RESISTANCE RATING OF THE ASSEMBLIES.
- D. EXACT LOCATIONS AND REQUIREMENTS FOR ALL EQUIPMENT SHALL BE VERIFIED WITH ARCHITECT/OWNER AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
- COORDINATE EXACT LOCATIONS, MOUNTING HEIGHTS & REQUIREMENTS FOR ALL DEVICES WITH LATEST ARCHITECTURAL FURNITURE & EQUIPMENT LAYOUTS & ELEVATIONS.
- COORDINATE EXACT LOCATIONS FOR ALL ELECTRICAL EQUIPMENT, PANELBOARDS, DISCONNECTS, STARTERS, CONTROL PANELS, ETC. WITH ARCHITECTURAL PLANS AND ALL OTHER TRADES INCLUDING MECHANICAL TO MAINTAIN REQUIRED WORKING CLEARANCES AND DEDICATED EQUIPMENT SPACE. DETERMINE EXACT LOCATIONS AND VERIFY WITH ALL OTHER TRADES PRIOR TO BEGINNING OF CONSTRUCTION TO AVOID INTERFERENCES WITH MECHANICAL, STRUCTURAL, ETC.
- G. MAINTAIN A MINUMUM OF 24" HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED ON OPPOSITE SIDES OF FIRE RATED WALLS TO COMPLY WITH NEC 300.21. H. ALL WIRING DEVICES SHALL BE OF TAMPER RESISTANT CONSTRUCTION AND WITH AFCI PROTECTION.
- I. ALL DEVICES AT COUNTER LOCATIONS TO BE MOUNTED ABOVE THE COUNTER AT +42"AFF OR AS NOTED ON THESE PLANS. COORDINATE WITH ARCHITECT/OWNER AND MILLWORK CONTRACTOR FOR EXACT LOCATIONS.
- J. LOCATE DISCONNECT SWITCHES FOR MECHANICAL AND BUILDING EQUIPMENT TO MAINTAIN WORKING CLEARANCES. LOCATIONS ON THESE PLANS ARE FOR REFERENCE ONLY.
- K. GROUND FAULT PROTECTION FOR DEVICES INSTALLED AT LOCATIONS NOT READILY ACCESSIBLE, PROVIDE GROUND FAULT BLANK FACE DEVICE AT ACCESSIBLE LOCATION OR PROVIDE GFCI BRANCH BREAKER IN PANELBOARD.
- L. ALL ROOF MOUNTED EQUIPMENT TO BE NEMA 3R WEATHERPROOF RATED, INCLUDING STARTERS, DISCONNECTS, ETC.



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OWNER

Highland Township Fire Department

PROJECT NAME

Highland Township Fire Station No. 1

1600 W. Highland Rd. Highland, MI 48357

PROJECT NO.

18-122A

ISSUES / REVISIONS SCHEMATIC DESIGN

SCHEMATIC DESIGN	01-28-2020
BIDDING-CONSTRUCTION	03-27-2020
ADDENDUM # 1	04-20-2020
CONSTRUCTION	05-04-2020
CCD #1	06-03-2020

DRAWN BY	
NH	
CHECKED BY EK	
APPROVED BY EK	
SHEET NAME	

FLOOR PLANS -POWER