

**Date:** May 19, 2025

**To:** Anthony P. Esson Architect

PO Box 479

Gaylord, MI 49735 Attn: Tony Esson

**Project Name:** Gaylord Community Schools SF3.8 – 2024 Sinking Fund Projects

GCS SF3.8 Bid Package #4 – BOECC Generator & ATS Installation

JLK Project Number: AEA 2401

Prepared by: Justin Kowatch, PE Addendum Number: #1 – Electrical Items

#### **ADDENDUM**

This Addendum is being issued for the purpose of modifying and/or clarifying the original Bidding Documents and shall take precedence over them.

Each Bidder's proposal shall include the work described herein. All requirements contained in the Contract Documents shall apply to this Addendum. All incidental work necessary to complete the Work shall be included in the Contractor's quotation even though not particularly mentioned.

Parts of the Specifications and Drawings referred to herein supersede previously issued data and form a part of this Addendum.

Supplemental Documents Issued with this Addendum, revised and dated 5/19/2025:

Drawing T – Modified Master sheet index to include new drawing E3.2.

Drawing E0.1 – Modified Electrical Drawing Index to include new drawing E3.2.

Drawing E1.1 – Clarified old service feeders shall be removed after service change-over is completed.

Drawing E2.1 – Clarified new Alternate Add #1 panels "MDP" & "DPA" shall be provided by the E.C.

Drawing E3.1 – Modified drawing E3.1 electrical 1-line to clarify Base-Bid work. Clarified grounding.

Drawing E3.2 – New drawing E3.2 with electrical 1-line to clarify Alternate Add #1 work.

#### **PLUMBING ADDENDUM ITEMS**

None.

#### **ELECTRICAL ADDENDUM ITEMS**

- **E1.** <u>Electrical Modifications</u>: Refer to revised drawings T, E0.1, E1.1, E2.1, E3.1, and new E3.2, all of which are revised and reissued with this Addendum. Note the following changes:
- A. Clarified Base-Bid work versus Alternate Add #1 work.
- B. Clarified that 800A @ 208V/3p/4w service ground may be either (2)-#1/0 CU Grd (one per run of #500 mcm) or (1)-#2/0 CU Grd per NEC 250.102.
- C. Modified feeder from generator to ATS with option for 2 sets of #500s or 3 sets of #250s.
- D. Clarified grounding of existing "MD" in Base Bid work One-Line E3.1.
- E. Clarified grounding of new "MSP" in Alternate Add #1 One-Line E3.2.
- F. Clarified that the new Alternate Add #1 panels "MDP and "DPA" are not pre-purchased by Owner and shall be provided/installed by the Electrical Contractor (E.C.).
- G. New drawing E3.2 to illustrate Alternate Add #1 work separate from Base-Bid work. Moved new 50A/2P breaker (for existing panel "E") from new "MDP" (Alternate Add #1) to new "DPA" (Alternate Add #1) to free up space on new "MDP" and also to save \$ because existing panel "E" is in same room as new "DPA".

#### End of Addendum #1 -

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# GAYLORD COMMUNITY SCHOOLS PROJECT SF3.8 BID PACKAGE NO. 4 BOARD OFFICE / EARLY CHILDHOOD CENTER GENERATOR & ATS INSTALLATION PROJECT

615 S. ELM AVE., GAYLORD, MI 49735

## WORK DESCRIPTION

WORK OF THE CONTRACT INCLUDES INSTALLATION OF A PREPACKAGED GENERATOR SET AND AUTOMATIC TRANSFER SWITCH (ATS) PREVIOUSLY PURCHASED BY THE OWNER.

## CODE DATA

APPLICABLE CODES: 2021 MICHIGAN BUILDING CODE 2021 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS 2021 MICHIGAN PLUMBING CODE 2023 MICHIGAN ELECTRIC CODE AND (NEC BY REFERENCE) 2012 LIFE SAFETY CODE EXISTING B/E/S2 (MIXED OCCUPANCIES - NON-SEPARATED & SEPARATED) CONSTRUCTION TYPE: 2021 MBC TYPE IIB NFPA TYPE II(000) TOTAL BUILDING AREA: 45,900 sf B/E USE: 33,010 sf S2 USE: 12,890 sf OCCUPANT LOAD (PER 2021 MBC 1004.1.2): B/E USE AREAS: 750 S2 USE AREA: 42

## **BID ALTERNATES**

BID ALTERNATE NO 1: REPLACE EXISTING ELECTRICAL PANELS INCLUDES REMOVAL AND REPLACEMENT OF EXISTING MAIN DISTRIBUTION PANEL "MDP", INSTALLED AT A NEW LOCATION, WITH FEEDERS FROM "MDP" AS NEEDED TO RECONNECT TO EXISTING "MD" LOADS: AND REMOVAL AND REPLACEMENT OF EXISTING SUB-PANEL "DPA" WITH NEW SUB-PANEL "DPA" INSTALLED AT THE SAME LOCATION AND RECONNECTING EXISTIGN FEEDERS TO EXISTING "DPA" BID ALTERNATE NO. 2: NEW GAS SERVICE HEADER INCLUDES REMOVAL OF EXISTING BOECC BUILDING 3" NATURAL GAS SERVICE HEADER (LOCATED NEAR THE BOILER ROOM) AND REPLACEMENT WITH A 6" NATURAL GAS SERVICE HEADER INTHE SAME LOCATION AND CONNECTIING TO THE EXISTING 3" NATURAL GAS MAIN SERVING EXISTING LOADS WITHIN THE EXISTING BOILER ROOM. PROVIDE A NEW 5" NATURAL GAS FEEDER PIPE TAPPED OFF NEW/UPGRADED 6" GAS HEADER ROUTED ACROSS ROOF, DOWN EXTERIOR WALL, AND UNDERGROUND TO NEW GENERATOR.

#### SHEET INDEX

TITLE SHEET / PROJECT INFORMATION PLUMBING TITLE SHEET & DETAILS - GAS SERVICE WORK PLUMBING PLAN - GAS BASE BID (NEW GAS SERVICE) PLUMBING PLAN - GAS ALTERNATE #2 (EXISTING GAS SERVICE) ELECTRICAL TITLE SHEET & DETAILS ELECTRICAL DEMOLITION PLANS ELECTRICAL NEW WORK PLANS ELECTRICAL ONE-LINE & DETAILS E3.2 ELECTRICAL 1-LINE - ALTERNATE #1

ADDENDUM #1 (5/19/2025)

ANTHONY P. ESSON



ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
Α	AMPS	M.C.	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
	ABOVE FINISHED FRADE		
AFG		MCB	MAIN CIRCUIT BREAKER
AIC	AMPS INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
		MFS	MAX FUSE SIZE
BKR	BREAKER	MLO	MAIN LUGS ONLY
		MTD	MOUNTED
С	CONDUIT	MTR	MOTOR
CB	CIRCUIT BREAKER		
CKT	CIRCUIT	N.E.C.	NATIONAL ELECTRIC CODE
COORD	COORDINATE	NF	NON-FUSIBLE
000115	000110111111	NIC	NOT IN CONTRACT
DISC	DISCONNECT	NTS	NOT TO SCALE
DP	DISTRIBUTION PANEL	NIS	NOT TO SCALE
			D
DWG	DRAWING	P-A	PANEL "A"
		P.C.	PLUMBING CONTRACTOR
(E)	EXISTING	PRI	PRIOR TO ROUGH-IN
Ė.Č.	ELECTRICAL CONTRACTOR		
EMT	ELECTRICAL METALLIC TUBING	(R)	RELOCATED
		RECEPT	RECEPTACLE
(F)	FUTURE	RP	RECEPTACLE PANEL
F.A.	FIRE ALARM SUBCONTRACTOR	131	NECEL TABLE
FLA	FULL LOAD AMPS	SD	SMOKE DETECTOR
FU	FUSE	SPEC	SPECIFICATION
0.5		SW	SWITCH
GFI	GROUND FAULT INTERRUPTER	SWBD	SWITCHBOARD
GRD	GROUND	SWGR	SWITCHGEAR
GRS	GALVANIZED RIGID STEEL		
		TELECOM	TELECOMMUNICATIONS
HOA	HAND-OFF-AUTO	TYP	TYPICAL
HP	HORSEPOWER		
HZ	HERTZ	UON	UNLESS OTHERWISE NOTED
	112.11.2	U/G	UNDERGROUND (BELOW GRADE)
JB	JUNCTION BOX	0/6	UNDERGROUND (BELOW GRADE)
OD.	JONETION BOX	V	VOLTC
1/1/4	KILO VOLT AMPERES	V	VOLTS
KVA	KILO VOLT-AMPERES		
KW	KILOWATT	W	WATTS
KWH	KILOWATT-HOURS	WP	WEATHERPROOF
LP	LIGHTING PANEL	XFMR	TRANSFORMER

BRANCH	CIRCU	IT WII	RE SIZ	ZE/LE	NGTH	SCHE	DUL
MAX BRANCH	MAX CIRCUIT LENGTH (FEET) TO LAST CONNECTION IN THE CIRCU						
CIRCUIT (AMPS)	50	75	100	125	150	< 300	
15	#10	#10	#10	#10	#8	#4	
20	#10	#10	#10	#8	#6	#4	
30	#8	#8	#6	#6	#4	#2	

1. REFER TO SPECIFICATIONS FOR WIRE TYPE. 2. SCHEDULE IS BASED UPON A MAX 3% VOLTAGE DROP ON 208-240V/10

3. FOR LENGTHS BETWEEN TABLED VALUES - USE LONGER LENGTH.

BRANCH CIRCUIT WIRE SIZE/LENGTH SCHEDULE							
MAX BRANCH CIRCUIT (AMPS)	MAX CIRCUIT LENGTH (FEET) TO LAST CONNECTION IN THE CIRCUIT						
	50	75	100	125	150	300	
15	#12	#10	#10	#8	#6	#4	
20	#10	#10	#8	#6	#6	#3	
30	#8	#8	#6	#4	#4	#1	

GCS BOARD OF EDUCATION OFFICES & EARLY CHILDHOOD CENTER BUILDING

ALTERNATE #1 (ADDER) - ADDITION OF REPLACING EXISTING MAIN DISTRIBUTION PANEL "MD" AND

REMOVAL & REPLACEMENT OF THE EXISTING MAIN DISTRIBUTION PANEL "MD" WITH A NEW MAIN

"MDP" AS NEEDED TO RECONNECT TO THE EXISTING "MD" LOADS. REFER TO 1-LINE DIAGRAM. REMOVAL & REPLACEMENT OF THE EXISTING SUB-PANEL "DPA" WITH A NEW SUB-PANEL "DPA" (BY

E.C.), INSTALLED AT THE SAME LOCATION, AND RECONNECTING EXISTING FEEDERS TO EXISTING "DPA"

STATE THE COST OF MATERIALS & LABOR REQUIRED TO ADD THE FOLLOWING WORK TO THE SCOPE OF

DISTRIBUTION PANEL "MDP" (BY E.C.), INSTALLED AT A NEW LOCATION, WITH NEW FEEDERS FROM NEW

(BOECC) GENERATOR & ATS INSTALLATION PROJECT -

<u>ÀLTERNATE BID ITEMS:</u>

EXISTING SUB-PANEL "DPA":

LOADS. REFER TO 1-LINE DIAGRAM.

THE PROJECT:

1. REFER TO SPECIFICATIONS FOR WIRE TYPE. 2. SCHEDULE IS BASED UPON A MAX 3% VOLTAGE DROP ON 115-120V/1ø CIRCUITS.

3. FOR LENGTHS BETWEEN TABLED VALUES — USE LONGER LENGTH.

**GENERAL ELECTRICAL DEMOLITION NOTES:** 

- 1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY THE NEW
- 2. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING SYSTEMS/EQUIPMENT PRIOR TO ISSUING HIS BID. ALL EXISTING PANEL/WIRE/LIGHT SIZES AND ROUTINGS SHOWN ARE APPROXIMATE AND
- SHOULD BE FIELD VERIFIED. 3. ALL ELECTRICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING, BUT NOT LIMITED TO, WIRES, CONDUITS, SUPPORTS, FIXTURES, ETC. REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF OFF SITE.
- 4. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED, BY THE OWNER OR OWNER'S REPRESENTATIVE, AT LEAST (7) DAYS IN ADVANCE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
- 5. WHERE DEMOLITION OF EXISTING SERVICES ARE REQUIRED TO ACCOMMODATE THE PROJECT PHASING/SCHEDULING, AND SERVICES ARE TO BE INTERRUPTED IN AREAS THAT ARE REMAINING OCCUPIED, THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES/CONNECTIONS TO THE OCCUPIED AREAS TO MAINTAIN ITS PRESENT OPERATION. IF SYSTEM SHUT DOWNS ARE REQUIRED, THE CONTRACTOR SHALL SCHEDULE WORK TO BE PERFORMED AT UNOCCUPIED
- 6. ALL ITEMS TO BE REMOVED AND/OR RELOCATED SHALL BE REMOVED AND/OR RELOCATED TOGETHER WITH ALL RELATED ITEMS AS REQUIRED BY THE NEW WORK TO BE PERFORMED.
- 7. CONTRACTOR SHALL COORDINATE ALL REMOVAL AND/OR RELOCATION WITH THE EXTENT OF THE NEW WORK AND WITH ALL OTHER TRADES INVOLVED.

#### **GENERAL ELECTRICAL POWER NOTES:**

- 1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS (I.E. CONDUIT, WIRE, PULL BOXES, ETC.) REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
- 2. ALL ELECTRICAL SYSTEMS SHALL BE PROVIDED/INSTALLED TO MEET APPLICABLE BUILDING CODES: MICHIGAN BUILDING CODE, MICHIGAN ELECTRICAL CODE, N.E.C., LIFE SAFETY CODE NFPA 101, MICHIGAN ENERGY CODE, ETC.
- 3. VERIFY REQUIREMENTS OF ALL MECHANICAL/PLUMBING/ARCHITECTURAL EQUIPMENT WITH SHOP DRAWING SUBMITTALS PRIOR TO INSTALLATION. NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN SHOP DRAWINGS AND PLANS.
- 4. COORDINATE THE INSTALLATION OF ALL ELECTRICAL WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY ALL MECHANICAL AND ELECTRICAL CLEARANCES PRIOR TO FABRICATION OF ANY NEW WORK. ELECTRICAL EQUIPMENT, WIRING, ETC. SHALL NOT INTERFERE WITH MECHANICAL EQUIPMENT CLEARANCE SPACES.
- 5. ALL CIRCUITS FOR POWER, LIGHTING, ETC. SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. ALL CIRCUITS SHALL BE CONCEALED IN WALLS, INCLUDING (E) WALLS. SURFACE MOUNTED RACEWAY SHALL NOT BE USED, UNLESS NOTED OTHERWISE, OR UNLESS ABSOLUTELY NECESSARY. APPROVAL FROM ARCHITECT/ENGINEER MUST BE OBTAINED PRIOR TO USING SURFACE MOUNTED RACEWAY.
- 6. UNLESS OTHERWISE NOTED, EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL NEW PENETRATIONS THROUGH ALL WALLS WITH FIRE CAULK IN ACCORDANCE WITH CURRENT BUILDING CODE REQUIREMENTS.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
, ,	CIRCUIT BREAKER	/O/ /@/	SINGLE PHASE MOTOR THREE PHASE MOTOR
*/	SWITCH	⊠H	COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
<u>~</u>	AUTOMATIC OR MANUAL TRANSFER SWITCH NODE	VSD ⊠-	VARIABLE SPEED DRIVE COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
<u> </u>	GROUND	다 라	NON-FUSABLE DISCONNECT SWITCH FUSIBLE DISCONNECT SWITCH
E)G TVSS	ENGINE GENERATOR  TRANSIENT VOLTAGE SURGE SUPPRESSION	9M (j)	HORSE POWER RATED SWITCH JUNCTION BOX
A-3	CIRCUIT HOMERUN TO PANEL "A" CIRCUIT #3	<b>●</b>	HARD WIRE POWER CONNECTION GROUND ROD
	LIGHTING PANEL (LP = <240V)	<u>о</u> — с—	CONDUIT UP CONDUIT DOWN
	DISTRIBUTION PANEL	Ф	DUPLEX RECEPTACLE
T M	TRANSFORMER UTILITY METER	Ф <sub>48</sub> "	DUPLEX RECEPTACLE MOUNTED AT 48" ABOVE FLOOR (UNLESS NOTED OTHERWISE) — SIMILAR FOR ISOLATED GROUND, EMERGENCY AND GFI RECEPTACLES
$\bigcirc$	UTILITY CT CABINET	\$	QUAD RECEPTACLE
GRA ARA	GENERATOR REMOTE ANNUNCIATOR PANEL ATS REMOTE ANNUNCIATOR PANEL	<del> </del>	DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTERTOP OR AS REQUIRED TO ACCOMMODATE COUNTERS - REFER TO ARCHITECTURAL ELEVATIONS
		ф	DUPLEX RECEPTACLE — GROUND FAULT INTERRUPTER
		#	DUPLEX RECEPTACLE — GROUND FAULT INTERRUPTER — MOUNTED 6" ABOVE COUNTERTOF OR AS REQUIRED TO ACCOMMODATE COUNTERS — REFER TO ARCHITECTURAL ELEVATIONS
		Ф wp	DUPLEX RECEPTACLE - GROUND FAULT

## STANDARD MOUNTING HEIGHTS

CONVENIENCE AND SPECIAL PURPOSE RECEPTACLE OUTLETS, TELE/DATA AND COMMUNICATIONS OUTLETS, NOT OTHERWISE SPECIFIED: • 18" AFF TO THE MIDDLE OF BOX

• 16" AFF TO BOTTOM OF BOX IN CMU WALLS

LIGHT SWITCHES, MOTOR CONTROL DEVICES, AND FIRE ALARM PULL STATIONS, NOT OTHERWISE SPECIFIED: • 48" AFF TO THE MIDDLE OF BOX • 48" AFF TO THE TOP OF BOX IN CMU WALLS

T-STATS, TEMP. SENSORS, CO2 SENSORS, NOT OTHERWISE SPECIFIED: • 48" AFF TO THE MIDDLE OF BOX

GFI RECEPTACLES IN TOILET ROOMS AND JANITOR CLOSETS, NOT OTHERWISE SPECIFIED: • 48" AFF TO TOP OF BOX.

• 48" AFF TO THE TOP OF BOX IN CMU WALLS

ADDENDUM #1

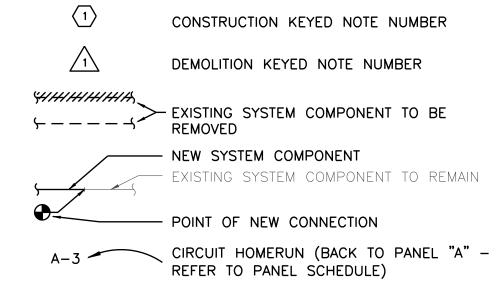
LIGHTING AND RECEPTACLE BRANCH CIRCUIT PANELBOARDS AND LIGHTING CONTROLLERS: • 6'-6" AFF TO TOP OF ENCLOSURE.

## METHODS OF NOTATION

SPECIAL RECEPTACLE - NEMA CONFIGURATION AS

INTERRUPTER - WEATHERPROOF COVER DUPLEX RECEPTACLE - GROUND FAULT

INTERRUPTER - DEAD-FRONT COVER



## ELECTRICAL DRAWING INDEX

EO.1 - ELECTRICAL TITLE SHEET & DETAILS E1.1 - ELECTRICAL DEMOLITION PLANS

E2.1 - ELECTRICAL NEW WORK PLANS E3.1 - ELECTRICAL 1-LINE & DETAILS

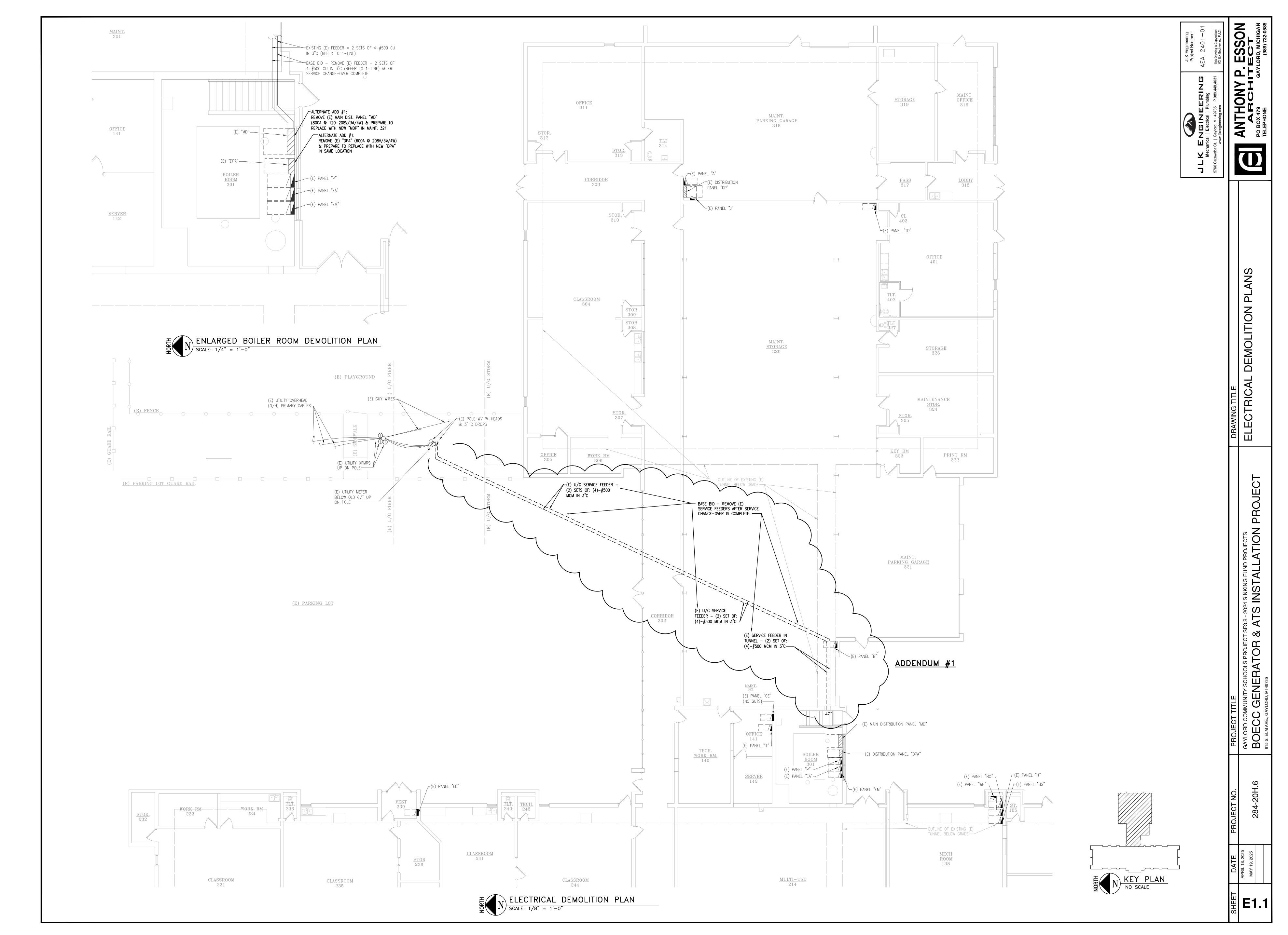
E3.2 - ELECTRICAL 1-LINE - ALTERNATE #1

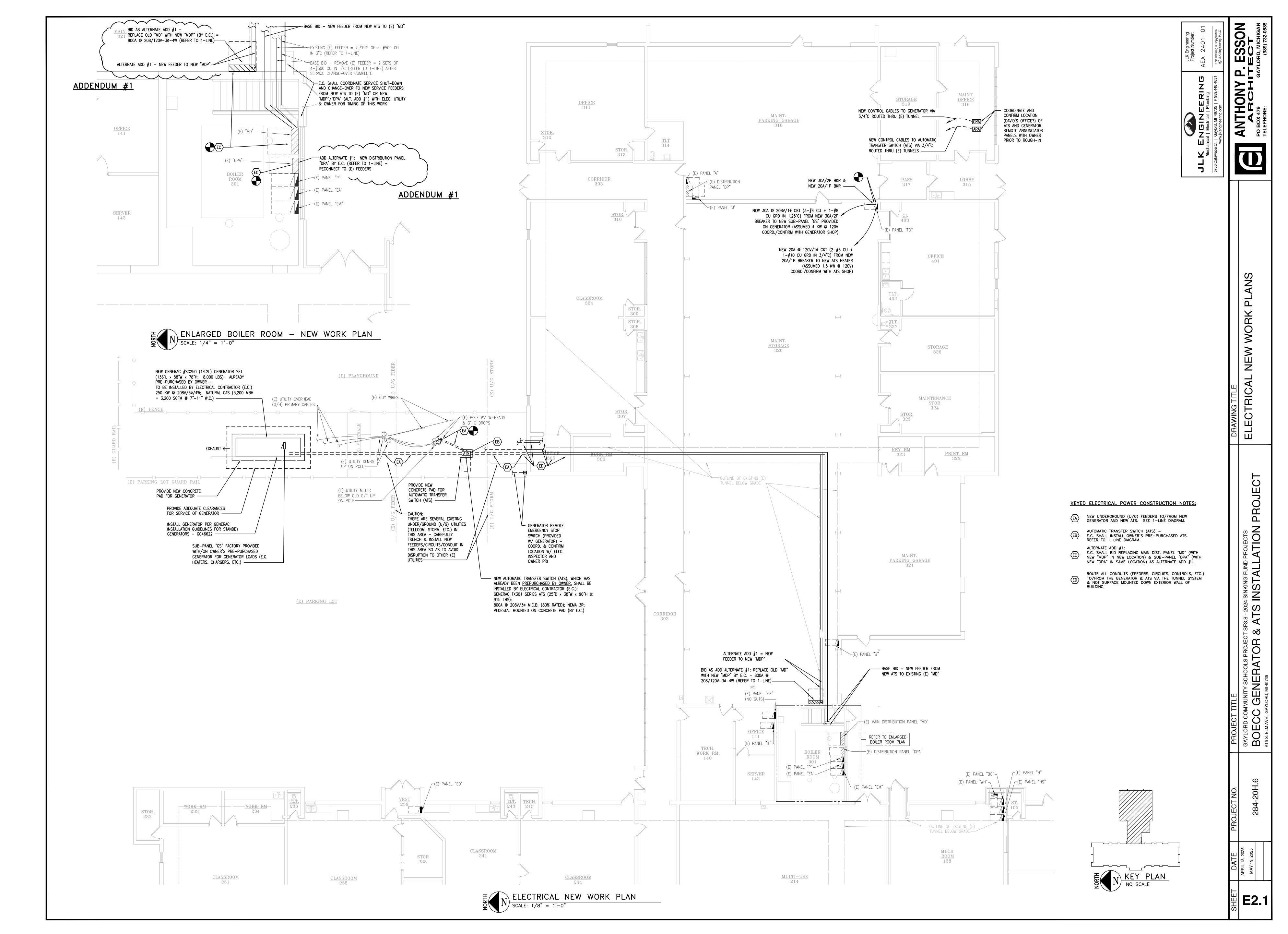
ADDENDUM #1

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**E0.1** 





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