

ADDENDUM NO. 3

Issued: January 08, 2024

Project: Heritage Middle School Renovations

Project No. 23024

Owner: Liberty Public Schools

8 Victory Lane

Liberty, Missouri 64068

Bidding Documents Issued: 12.13.2023

This Addendum includes these 2 pages[s] and the following attachments:

Project Manual:

No new or re-issued sections. See 'PROJECT MANUAL REVISIONS' section below.

Drawings:

Refer to Smith & Boucher, MEP Addendum No. 3

PROJECT MANUAL REVISIONS

A1 SECTION 123200 - MANUFACTURED WOOD CASEWORK

- A1.1 DELETE Paragraph 1.5 B. in Section 123200 "Manufactured Wood Casework".
- A1.2 DELETE Paragraph 2.3 A. in Section 123200 "Manufactured Wood Casework".
- M1 REFERENCE ATTACHED MEP ADDENDUM NO. 3
- E1 REFERENCE ATTACHED MEP ADDENDUM NO. 3
- P1 REFERENCE ATTACHED MEP ADDENDUM NO. 3

DRAWINGS REVISIONS

- A2 SHEET A681 ROOM FINISH SCHED. (AREAS A + C) + MAT. FINISH LEGEND (NO NEW SHEET)
 - A2.1 REMOVE Media Center RR A001 from Room Finish Schedule. Room was removed from scope.
- M2 REFERENCE ATTACHED MEP ADDENDUM NO. 3
- **E2** REFERENCE ATTACHED MEP ADDENDUM NO. 3
- P2 REFERENCE ATTACHED MEP ADDENDUM NO. 3



SUBSTITUTION REQUEST APPROVALS

This portion of the addendum designates those materials, products and equipment approved prior to submission of bids, as set forth in the contract documents. Items added to the proposed contract documents by this addendum are the only proposed substitutions received and approved by the architect in accordance with those provisions. No other items shall be substituted or bid as "equals".

It is understood that all items allowed by this addendum are subject to the full provisions of the original proposed contract documents and all modifications thereto and, as such, shall match standards of the original specified items with respect to materials, workmanship, design, size, capacity, type, function, finish, performance, quality, warranty, etc. Nothing in this addendum shall be construed as altering those original standards or modifications thereto.

Approvals are based upon the opinion, knowledge, information and belief of the architect at time of issuance of this addendum and reliance upon data submitted. Approvals are therefore interim in nature and subject to reconsideration as additional data, materials, workmanship and coordination with other work are observed and reviewed. In proposing items allowed by this addendum, bidder assumes all risk, costs and responsibility for item's final acceptance, integration into the work and performance.

SECTION 097723 - FABRIC WRAPPED PANELS

 Custom Acoustical Products: Tackable Wall Panels: ¾" mineral board (USG Micore 300) are acceptable for Fabric Wrapped Panels.

SECTION 098433 - ACOUSTICAL WALL UNITS

 Custom Acoustical Products: Echo Stopper Acoustical Wall Panels: 2" 6PCF Fiberglass, hardened edges are acceptable for Fiberglass Acoustical Wall Units.

SECTION 105113 - METAL LOCKERS

- Scranton Products: DURALIFE HDPE Lockers are an acceptable substitution for Metal Lockers.
- Elite Storage Products, Inc.; Lockers MFG Heavy Duty Knock Down Metal Lockers are acceptable for Metal Lockers.

END OF ADDENDUM NO. 03





ADDENDUM NO. 3

Heritage Middle School Renovation Smith & Boucher Project No. 2314708

01-05-2024

To Documents Titled:

Heritage Middle School Renovation 100% Construction Documents December 20th 2023

Architect-of-Record:

Hollis + Miller Architects 1828 Walnut Street Suite 922 Kansas City, MO 64108

The Contract Documents for the above referenced project and the Work covered thereby are modified as described herein.

SPECIFICATIONS

- 1. 262726 WIRING DEVICES
 - Add the following: 3.3.D. Tamper-resistant receptacles shall be installed in all locations as required by the electrical code.
- 2. 283111 DIGITAL, ADRESSABLE FIRE-ALARM SYSTEM
 - a. Delete the following: 2.6 Carbon Monoxide Detectors.

DRAWINGS

- 1. Sheet DM100A DEMOLITION HVAC PLAN LEVEL 0 AREA A
 - a. Revised plan note #4.
- 2. Sheet DM101B DEMOLITION HVAC PLAN LEVEL 1 AREA B
 - a. Revised demolition of existing 16"ø duct in locker corridor to be existing to remain.
- 3. Sheet DP102A DEMOLITION PLUMBING PLAN LEVEL 2 AREA A
 - a. Revised existing water main routing on mezzanine.
- 4. Sheet DP102B DEMOLITION PLUMBING PLAN LEVEL 2 AREA B
 - Revised existing water main routing on mezzanine.
- Sheet M100A HVAC PLAN LEVEL 0 AREA A
 - a. Revised plan note #2.
- 6. Sheet M100C HVAC PLAN LEVEL 0 AREA C
 - a. Revised exhaust duct from EF-1.
- Sheet M101B HVAC PLAN LEVEL 1 AERA B
 - a. Revised new duct in corridor to be existing to remain.
 - b. Added Alternate #2 notes for future MEP scope.
- 8. Sheet M102A HVAC PLAN LEVEL 2 AREA A
 - a. Revised duct in commons area.
- 9. Sheet M102B HVAC PLAN LEVEL 2 AREA B
 - a. Added Alternate #3 note.
- 10. Sheet M202B HVAC PIPING PLAN LEVEL 2 AREA B

Sheet ME303 - Mechanical & Electrical Schedules

a. Updated Air Handling Unit Schedule

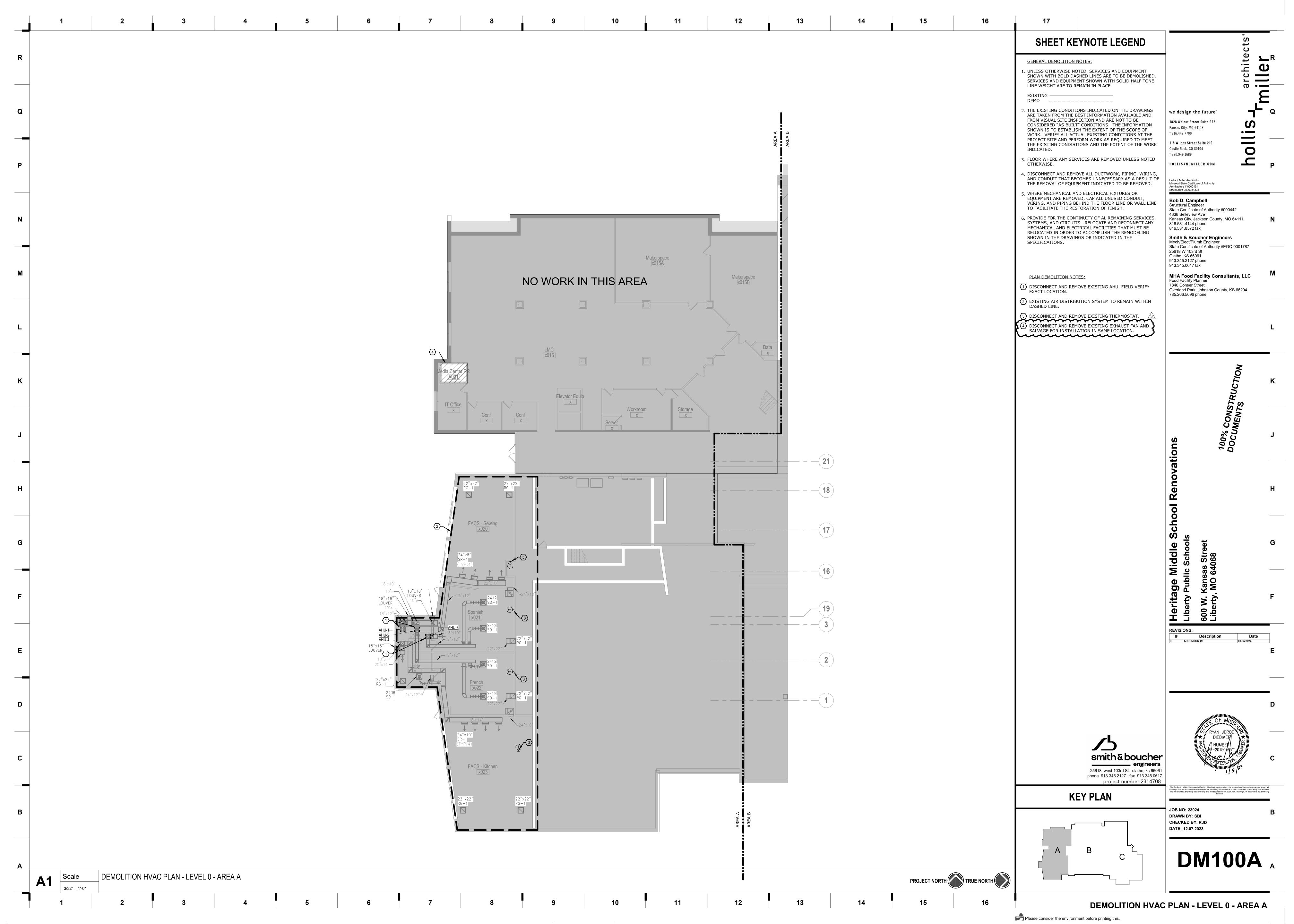
- a. Added Alternate #3 note.
- 11. Sheet P102A PLUMBING PLAN LEVEL 2 AREA A
 - a. Revised existing water main routing on mezzanine.
- 12. Sheet P102B PLUMBING PLAN LEVEL 2 AREA B
 - a. Revised existing water main routing on mezzanine.
- 13. Sheet E101A LIGHTING PLAN LEVEL 1 AREA A
 - a. Added additional lighting scope.
- 14. Sheet E102A LIGHTING PLAN LEVEL 2 AREA A
 - a. Added additional lighting scope.
- 15. Sheet E200A POWER PLAN LEVEL 0 AREA A
 - a. Deleted UV lights at AHU's.
- 16. Sheet E200B POWER PLAN LEVEL 0 AREA B
 - a. Added elevator modernization scope.
- 17. Sheet E200C POWER PLAN LEVEL 0 AREA C
 - a. Added elevator modernization scope.
- 18. Sheet E201A POWER PLAN LEVEL 1 AREA A
 - a. Added receptacle for TV.
- 19. Sheet E202B POWER PLAN LEVEL 2 AREA B
 - a. Added receptacle for TV.
- 20. Sheet E301 ELECTRICAL SCHEDULES AND DETAIL
 - a. Revise panel schedule L2S, L2N, L3S, L3N.
- 21. Sheet E302 ELECTRICAL SCHEDULES AND DETAILS
 - a. Revised light fixture schedule to correspond to lighting scope.
 - b. Added equal fixtures.
- 22. Sheet LV100B LOW VOLTAGE PLAN LEVEL 0 AREA B
 - a. Added remote mic location with revised plan note.
- 23. Sheet LV101A LOW VOLTAGE PLAN LEVEL 1 AREA A
 - a. Added data for TV.
 - b. Added data for clock.
- 24. Sheet LV101B LOW VOLTAGE PLAN LEVEL 1 AREA B
 - a. Added additional fire alarm devices at door.
 - b. Added Alternate note.
- 25. Sheet LV102B LOW VOLTAGE PLAN LEVEL 2 AREA B
 - a. Added additional fire alarm devices at doors.
 - b. Added data for TV.

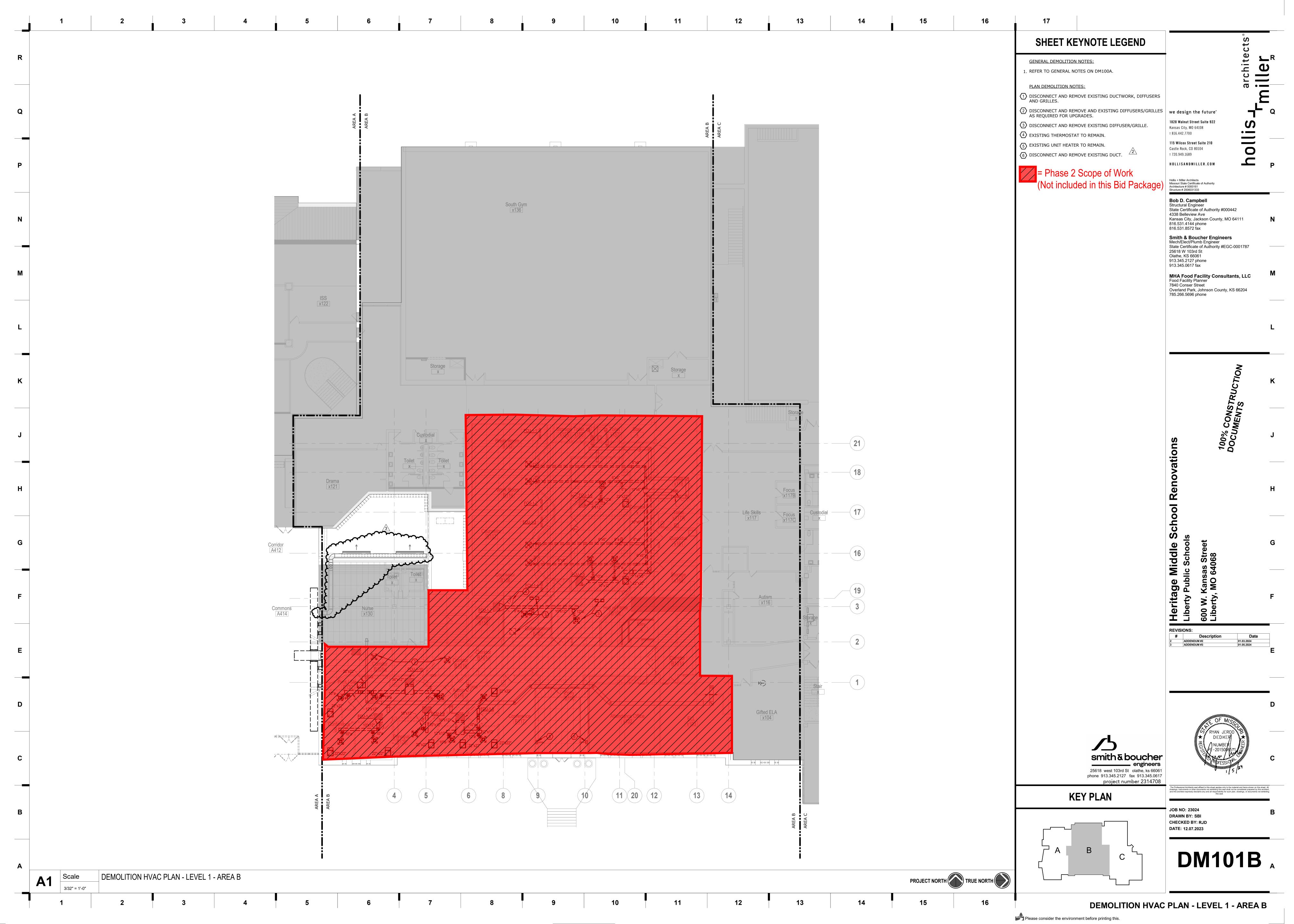
Attachments

• Sheets listed above.

END OF MEP ITEMS FOR ADDENDUM NO. 3

ADDENDUM NO. 3 PAGE 2 OF 2







184	DINO FIVELINE																					D
M	BING FIXTURE S	SCHEDULE										F	FITTINGS				PIP	ING CON	NECTIO	NS		R HANDLING UNIT SCHE
	MFGR./ MODEL			DESCRIPTIO	N				MANUFACTURER/N	/ODEL			SCRIPTION			NOTE	CW		SAN			LOCATION
	SLOAN ST-2029	ADA COMPLIANT WATER CL MOUNTED, FLUSH VALVE BO 1.6 GALLON SIPHON JET FL	OWL WITH TOP SPU	·		L, FLOOR			SLOAN REGAL 111 SFSN	1-1.6	FLUSH VALVE, CHRO	(POSED WATER CLOSI DME PLATED METAL, W PROTECTIVE CAP, ADJ NAND SPUD COUPLING	VITH, 1" I.P.S JUSTABLE TA	. SCREWDRIVER BAI ILPIECE, VACUUM BI	-CHEK REAKER		1"		4"	2"		MANUFACTURER MODEL NO. SYSTEM
	CHURCH 9500C	SEAT: SOLID PLASTIC, OPE BUMPERS, EXTERNAL CHEC	,	,	•						FLUSH. PROVIDE WALL AND		5 I OK I 1/2	TOF SPOD, 1.0 GALL	ZIN							WEIGHT (LBS) SERVICE
	SLOAN ST-2009	WATER CLOSET: WHITE VI MOUNTED, FLUSH VALVE BO 1.6 GALLON SIPHON JET FL	OWL WITH TOP SPU	•					SLOAN REGAL 111 SFSN	1-1.6	FLUSH VALVE, CHRO	LOSET BATTERY OPER DME PLATED METAL, W PROTECTIVE CAP, ADJ NAND SPUD COUPLING	VITH, 1" I.P.S JUSTABLE TA	. SCREWDRIVER BAH ILPIECE, VACUUM BI	REAKER		1"		4"	2"		SUPPLY AIRFLOW (CFM) OUTSIDE AIR (CFM) MINIMUM CO2 OUTSIDE AIR
	CHURCH 9500C	SEAT: SOLID PLASTIC, OPE BUMPERS. EXTERNAL CHEC	, ,	•	•						FLUSH. PROVIDE WALL AND	A ODUID EL ANOEG									z	MINIMUM AIRFLOW (CFM)
	SLOAN WETS-8029.8010-STG	ADA COMPLIANT WATER CL MOUNTED, PRESSURE-ASSI	LOSET: WHITE VITRI	EOUS CHINA, ELOI	NGATED BOW	•					PROVIDE WALL AND	SFUD FLANGES.					1"		4"	2"	SUPPLY FA	EXTERNAL STATIC PRESSURE (IN. W.C.) TOTAL STATIC PRESSURE (IN. W.C.) QUANTITY
	CHURCH 9500C	SEAT: SOLID PLASTIC, OPE BUMPERS, EXTERNAL CHEC	,	•	•																	FAN SPEED (RPM) BRAKE HORSEPOWER (EACH)
	SLOAN SU-1009	ADA COMPLIANT URINAL: V SPUD, 1.0 GALLON SIPHON			JRINAL WITH 3/	/4" TOP			SLOAN ROYAL 186 SMO-0.25-DBI		FLUSHOMETER WIT	POSED URINAL BATTE H CROME PLATED MET STOP, VANDAL RESIS'	TAL, 3/4" I.P.	S. SCREWDRIVER	PIECE		3/4"		2"	2"		MOTOR HORSEPOWER (EACH) DRIVE (EACH)
	WADE	PROVIDE CARRIER AS REQ MOUNTING IN CHASE. MOU	•						, , , , , , , , , , , , , , , , , , , ,		FOR 3/4" TOP SPUD PROVIDE WALL AND	URINALS.										RETURN AIRFLOW (CFM)
	SLOAN SU-1009 WADE	WHITE VITREOUS CHINA WASPUD, 1.0 GALLON SIPHON PROVIDE CARRIER AS REQ	ALL HUNG URINAL WI JET FLUSHING ACTION	ITH 3/4" TOP ON.					SLOAN ROYAL 186 SMO-0.25-DBI	P-OR	FLUSHOMETER WIT BACKCHECK ANGLE FOR 3/4" TOP SPUD		TAL, 3/4" I.P.	S. SCREWDRIVER	PIECE		3/4"		2"	2"	TURN FAN	EXTERNAL STATIC PRESSURE (IN. W.C.) TOTAL STATIC PRESSURE (IN. W.C.) QUANTITY FAN SPEED (RPM)
	SLOAN SS-3103	MOUNTING IN CHASE. ADA COMPLIANT WALL HUN WITH SPLASHBACK AND FR			· ·	ET.			CHICAGO FAUCE 116.599.AB.1	ETS		TTERY OPERATED DU/ IETAL HAND WASHING		,		1,2,3,4,	1/2"	1/2"	2"	2"	SE.	BRAKE HORSEPOWER (EACH) MOTOR HORSEPOWER (EACH) DRIVE (EACH)
									WATTS MINIMIXING 2297321		POINT OF USE THEF WALL MOUNTING PL	RMOSTATIC MIXING VA .ATE.	ALVE. CHROI	ME FINISH. 1/2" FITT	NGS.						COIL	MAXIMUM FACE VELOCITY (FPM) ENT. AIR (DB/WB) LVG. AIR (DB/WB)
	SLOAN EW-73000	WASHFOUNTAIN: SLOANSTO VANDAL RESISTANT, ADA C REINFORCE WALL AS REQU	COMPLIANT. FINISH A	AS SPECIFIED BY	ARCHITECT.	RFLOWS.			SLOAN EW-72000			SENSOR OPERATED I MOSTATIC MIXING VAL		FEGRAL TO FIXTURE		1,2,3,4,5	1/2"	1/2"	1-1/2"	1-1/2"	WATER	MAX FINS/ MIN. ROWS TOTAL COOLING CAPACITY (MBH)
	SLOAN EW-72000	WASHFOUNTAIN: SLOANSTO VANDAL RESISTANT, ADA C REINFORCE WALL AS REQU	ONE, WALL HUNG, 2- COMPLIANT. FINISH A	STATION, WITH IN AS SPECIFIED BY A	ITEGRAL OVER ARCHITECT.	RFLOWS.			SLOAN EW-72000			SENSOR OPERATED MOSTATIC MIXING VAL		FEGRAL TO FIXTURE		1,2,3,4,5	1/2"	1/2"	1-1/2"	1-1/2"	CHILLED	SENSIBLE COOLING CAPACITY (MBH) GPM @ 45 EWT, 10 WTD AIR PRESSURE DROP (IN. W.C.)
	ELKAY LZSTL8WSLK	ELECTRIC DRINKING FOUNT WATER COOLER, SENSOR (FRONT PUSHBUTTON, NON-	OPERATED BOTTLE	FILLER ABOVE AD	DA FOUNTAIN.	ECTRIC											1/2"		2"	1-1/2"		WATER PRESSURE DROP (FT.) (MAX.) MAXIMUM FACE VELOCITY (FPM) MINIMUM HTG AIRFLOW (CFM)
	ELKAY LZS8WSVRSK	ELECTRIC DRINKING FOUNT WATER COOLER, SENSOR (FRONT PUSHBUTTON, NON-	OPERATED BOTTLE	FILLER ABOVE AD	DA FOUNTAIN.	CTRIC											1/2"		2"	1-1/2"	TER COIL	ENT. AIR (DB) LVG. AIR (DB) MAX FINS/ MIN. ROWS
	ELKAY LRAD2219	SINGLE BOWL DROP IN SIN PLACEMENT.	IK, 18 GAUAGE LUSTI	ERTONE CLASSIC	STAINLES STE	ΞEL, 22"Χ 19-	-1/2"X 7-5/8", CEN	ITER DRAIN	CHICAGO FAUC 895		FIXED CENTERS, 5"	OSENECK FAUCET WI RIGID/SWING GOOSEN	NECK SPOUT	. 2.2GPM FLOW RAT	Ξ.	3,4,5	1/2"	1/2"	1-1/2"	1-1/2"	HOT WA	HEATING CAPACITY (MBH) GPM @ 180 EWT, 30 WTD AIR PRESSURE DROP (IN. W.C.)
									WATTS MINIMIXING 2297321		MOUNTING PLATE.	RMOSTATIC MIXING VA	ALVE. CHROI	ME FINISH. 1/2" FITT	NGS. WALL							WATER PRESSURE DROP (FT.) (MAX.) TYPE
	ELKAY LRAD312250	ADA COMPLIANT SINK SING	GLE BOWL, DROP IN	ADA SINK, LUSTĒF	RTONE CLASS	SIC STAINLES	SS STEEL 31"X22".	"X5".	CHICAGO FAUC 2301-ABCP		WITH SIDE SPRAY, 2	IGLE HOLE SINGLE LE 2.2GPM FLOW RATE, 3/ O CENTER INTEGRAL C	3/8" CPRESSE	D FLEXISBLE STAIN		CET 3,4,5	1/2"	1/2"	1-1/2"	1-1/2"	ILTER	MERV RATING MEAN APD (IN. W.C.) TYPE
									WATTS MINIMIXING 2297321		POINT OF USE THEF MOUNTING PLATE.	RMOSTATIC MIXING VA	ALVE. CHROI	ME FINISH. 1/2" FITT	NGS. WALL							MERV RATING MEAN APD (IN. W.C.)
									AMERICAN STAND RELIANT 3 TU385507			Y: METAL LEVER HAND JUSTABLE HOT LIMIT S	•	·		I I	1/2"	1/2"	1-1/2"	1-1/2"	ATA	VOLTAGE/PHASE MCA MOCP
									AMERICAN STAND			BRASS, SCREWDRIVE		ME EINIICH 4/01 FITT	NGS MALL						FAN ELEC. D	PANEL & CIRCUIT WIRE & CONDUIT OVERCURRENT DEVICE
									WATTS MINIMIXING 2297321		MOUNTING PLATE.	WOOTATIO WIAING VA	LVL. UHRUI	VIZ I IIVIOLI. I/Z FILL	NOO. VVALL							COMBINATION STARTER
	STERN WILLIAMS SB-800	PRECAST TERRAZO RECEP	•	,	HBRASS DRAIN	N,			STERN WILLIAM T-15 VB			ET WITH VACUUM BRE	·				1/2"	1/2"	3"	1-1/2"	4	VOLTAGE/PHASE
	HOEPTNER EXECUTIVE #2131RE	NON-FREEZE ROOF HYDRA HANDLE. HYDRANT SHALL N	ANT WITH GALVANIZE	ED CASING AND AD					 I-15 VB		TOF BRACE, 3/4 HC	OL HINEAU SPOUT, AI	 	D ONOWIE FINIOM.			3/4"				ELEC. DA	FLA MOCP
_	20/452 01/251/2	PROTECTION.																			CEPT. E	PANEL & CIRCUIT WIRE & CONDUIT
Ы	ROVIDE CHROME PLATED	BRASS TAILPIECE AND GRID D BRASS P-TRAP.	JRAIN.																		"	OVERCURRENT DEVICE

- PROVIDE CHROME PLATED BRASS P-TRAP.
- 3: PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
- 4: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS.
- 5: PROVIDE WITH ALL MOUNTING HARDWARE AS REQUIRED. FIXTURE STUDS AND NUTS SHALL BE STAINLESS STEEL.

DES	IGNATION	EF-1
FAN	TYPE	CEILING
SER	VICE	IT
MAN	IUFACTURER	соок
MOE	DEL	GC322
	СҒМ	150
	STATIC PRESSURE	0.3
ATA	FAN RPM	1590
JNIT DATA	BRAKE HORSEPOWER	[39.0 W]
Ž	MOTOR HORSEPOWER	
	VOLTAGE/PHASE	120/1
	DRIVE	DIRECT
	PANEL & CIRCUIT	PP1-1(PART)
ATA	WIRE & CONDUIT	(2)#12,#12G,1/2"C
ELECT. DATA	OVERCURRENT DEVICE	20A/1P
ELEC	DISCONNECT	INTEGRAL
	CONTROL	NOTE 2
REF	ERENCE DRAWING/DETAIL	
NOT	ES	1

1: PROVIDE WITH FAN SPEED CONTROLLER 2: PROVIDE WITH MAKE-ON-RISE THERMOSTAT.

DES	SIGNATION	ACT-1	ACT-2		
MA	NUFACTURER	BERNER	BERNER		
МО	DEL	ALC08-2084A	ALC08-2084A		
CFN	И	2,424	2,424		
AIR	VELOCITY (FPM)	3,000	3,000		
HEA	ATING CAPACITY (KW)				
TEN	MPERATURE RISE (°F)				
LEN	NGTH (IN.)	84	84		
МО	TOR HORSEPOWER	2 @ 1/5	2 @ 1/5		
WE	IGHT (LBS)	100	100		
VOI	LTS/PHASE	120/1	120/1		
	MCA	6.8	6.8		
ATA	MOCP	15A	15A		
ELEC./ CONTROL DATA	PANEL & CIRCUIT	L1-39	L1-41		
ONTR	WIRE & CONDUIT	(2)#12,#12G.,1/2"C.	(2)#12.#12G.,1/2"C.		
C./ C	OVERCURRENT DEVICE	20A-1P	20A-1P		
ELE	DISCONNECT	NOTE 1	NOTE 1		
	CONTROL	SENSOR (INTEGRAL)	SENSOR (INTEGRAL)		
REF	FERENCE DRAWING/DETAIL	M101A	M101A		
REI	MARKS	2,3	2,3		

1: FURNISH MOTOR CUT-OFF SWITCH MOUNTED ADJACENT TO THE EQUIPMENT TO DISCONNECT. COORDINATE INTEGRAL DISCONNECT SYSTEM WITH

MANUFACTURER. 2: FURNISH WITH LOW- VOLTAGE MAGNETIC SWITCH MOUNTED OVER THE DOOR.

3: FURNISH WITH DARK BRONZE FINISH.

	4: FIRE ALARM CONTRACTO 5: PROVIDE STAINLESS STEI 6: PROVIDE AHU WITH MARII	EL DRAIN PAN IN COO	LING COIL SECTIO	
GI	YCOL FEEDER			
DES	IGNATION	GF-1	GF-2	
	LOCATION	MECH RM	MECH RM	
	MANUFACTURER	NEPTUNE	NEPTUNE	
4	SERVICE	HW	CW	
PAT	TYPE	AUTOMATIC	AUTOMATIC	
JNIT DATA	MODEL	G-50-1	G-50-1	
¬	CAPACITY (GALLONS)	50	50	
	FLOW RATE (GPM)	1.5	1.5	
	PRESSURE (PSIG)	100	100	
	VOLTAGE/PHASE	120/1	120/1	
DATA	PANEL & CIRCUIT	P2-21	P2-23	
0.0	WIRE & CONDUIT	(2)#12,#12G,1/2"C.	(2)#12,#12G.,1/2"	
ELEC.	OVERCURRENT DEVICE	20A-1P (NOTE 2)	20A-1P (NOTE 2	
	DISCONNECT	NOTE 3	NOTE 3	
REF	ERENCE DRAWING/DETAIL			
REN	IARKS	1	1	

1: PROVIDE WITH DRY CONTACT FOR BMS LOW LEVEL INDICATION. 2: PROVIDE CIRCUIT BREAKER IN PANEL INDICATED. REFER TO SHEET E200A.

3: PROVIDE MOTOR RATED, SPST TOGGLE DISCONNECT SWITCH.

DESI	GNATION	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6
	LOCATION	BASEMENT 1964 BUILDING	BASEMENT 1964 BUILDING	BASEMENT 1964 BUILDING	BASEMENT 1964 BUILDING	ROOF 1964 BUILDING	ROOF 1964 BUILDING
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
	MODEL NO.	BCVE048	BCVE036	BCVE036	BCVE060	CSAA025	CSAA017
		CONST. VOL.	CONST. VOL.	CONST. VOL.			VAV
	SYSTEM				CONST. VOL.	VAV	
	WEIGHT (LBS)	350	250	250	400	7,500	7,000
	SERVICE	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS
	SUPPLY AIRFLOW (CFM)	1,000	700	700	1,650	12,000	8,000
	OUTSIDE AIR (CFM)	250	250	250	500	6,500	4,000
	MINIMUM CO2 OUTSIDE AIR	_	<u>-</u>	-	-		_
	MINIMUM AIRFLOW (CFM)	_	<u>-</u>	_	_	10,833	6,667
z	<u> </u>					·	,
SUPPLY FAN	EXTERNAL STATIC PRESSURE (IN. W.C.)	0.75	0.75	0.75	0.75	2.00	2.00
ř	TOTAL STATIC PRESSURE (IN. W.C.)	1.26	1.317	1.317	1.693	4.5	4.3
SUP	QUANTITY	1	1	1	1	2	2
	FAN SPEED (RPM)	1000	1322	1322	1163	2209	2425
	BRAKE HORSEPOWER (EACH)	0.37	0.2677	0.2677	0.806	14.5	9.2
	MOTOR HORSEPOWER (EACH)	0.5	0.5	0.5	1	15	10
	<u> </u>				'		
\sim	DRIVE (EACH)	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
	RETURN AIRFLOW (CFM)	-	-	-	-	12000	8000
	EXTERNAL STATIC PRESSURE (IN. W.C.)	-	-	-	-	1.5	1.5
Z	TOTAL STATIC PRESSURE (IN. W.C.)	-	-	-	-	1.77	1.69
7F F	QUANTITY	_	-	-	-	2	2
RETURN FAN	FAN SPEED (RPM)	_	-	-	_	1322	1609
RET	PRAKE HORSEDOWED (EACH)					6.03	6.03
		-	-	-	-		
	MOTOR HORSEPOWER (EACH)	-	-	-	-	7.5	7.5
<u> </u>	DRIVE (EACH)					DIRECT	DIRECT
	MAXIMUM FACE VELOCITY (FPM)	500	500	500	500	500	500
_	ENT. AIR (DB/WB)	81 / 65	81 / 65	81 / 65	81 / 65	86 / 69	85 / 69
CHILLED WATER COIL	LVG. AIR (DB/WB)	56 / 55	56 / 55	56 / 55	56 / 55	53 / 52	53 / 52
ER (MAX FINS/ MIN. ROWS	12/6	12/6	12/6	12/6	12/6	12/6
/AT	TOTAL COOLING CAPACITY (MBH)	41	23	23	44	600	400
Ω		1					291
Ë	SENSIBLE COOLING CAPACITY (MBH)	21	21	21	42	436	
딩	GPM @ 45 EWT, 10 WTD	8.7	5.2	5.2	10.3	132	88
	AIR PRESSURE DROP (IN. W.C.)	0.6	0.6	0.6	0.6	0.76	0.76
	WATER PRESSURE DROP (FT.) (MAX.)	15	15	15	15	15	15
	MAXIMUM FACE VELOCITY (FPM)	500	500	500	500	500	500
	MINIMUM HTG AIRFLOW (CFM)	1,000	700	700	1,650	6,000	4,000
	ENT. AIR (DB)	54	46	46	50	27	27
000	<u> </u>	105		105			55
HOT WATER COIL	LVG. AIR (DB)		105		105	55	
VAT	MAX FINS/ MIN. ROWS	12/1	12/1	12/1	12/1	12/1	12/1
) TC	HEATING CAPACITY (MBH)	56	45	45	95	245	150
Ĭ	GPM @ 180 EWT, 30 WTD	4.0	3	3	7	17	11
	AIR PRESSURE DROP (IN. W.C.)	0.15	0.15	0.15	0.15	0.15	0.15
	WATER PRESSURE DROP (FT.) (MAX.)	15	15	15	15	15	15
	TYPE	2" PLEATED	Λ 2" PLEATED				
	MERV RATING	MERV 8	MERV 8				
ŭ.		0.6	0.6	0.6	0.6	0.6	0.6
LTE	MEAN APD (IN. W.C.) TYPE	2" PLEATED	2" PLEATED				
	MERV RATING	MERV 13	MERV 13				
	MEAN APD (IN. W.C.)	1.07	1.07	1.07	1.07	1.07	1.07
	VOLTAGE/PHASE	230/1	230/1	230/1	230/1	480/3	480/3
	MCA	5.33	5.33	5.33	9.66	60.8	45.6
AT/	MOCP	15	15	15	15	80	50 3
ට ට	PANEL & CIRCUIT	P2-9,11 (EXISTING)	P2-13,15 (EXISTING)	P2-8,10 (EXISTING)	P2-12,14 (EXISTING)	LP1-19,21,23	LP1-25,27,29
:LE	WIRE & CONDUIT	(2)#12,12G,1/2"C. (EXISTING)	(2)#12,12G,1/2"C. (EXISTING)	(2)#12,12G,1/2"C. (EXISTING)	(2)#12,12G,1/2"C. (EXISTING)	(3)#3,8G,1"C.	(3)#6,#10G,3/4"C.
FAN ELEC. DATA	OVERCURRENT DEVICE	15A-2P (EXISTING)	15A-2P (EXISTING)	15A-2P (EXISTING)	15A-2P (EXISTING)	80A-3P (NOTE 11)	50A-3P (NOTE 11)
	COMBINATION STARTER	EXISTING	EXISTING	EXISTING	EXISTING	NOTE 8	NOTE 8
	COMBINATION STARTER	LAIGTING	LAIGTING	LAIGTING	EXIOTINO	NOTE	NOTE
	VOLTAGE/EVACE					40011	100
٩T٨	VOLTAGE/PHASE					120/1	120/1
Δ.	FLA					8	8
LEC	MOCP					20A	20A
Ţ.	PANEL & CIRCUIT					L2-18	L2-20
RECEPT. ELEC. DATA	WIRE & CONDUIT					(2)#12,#12G,1/2"C.	(2)#12,#12G,1/2"C.
REC	OVERCURRENT DEVICE					20A-1P	20A-1P
						20/(11	
	ATION ISOLATION	-	-	-	-	- -	- DE DMO DMOO
	rol	RE: BMS DWGS	RE:BMS DWGS				
	RENCE DRAWING/DETAIL	M100A	M100A	M100A	M100A	ME202A	ME202A
REM	ARKS	1, 2, 3, 5, 8, 10	1, 2, 3, 5, 8 ,10	1, 2, 3, 5, 8 ,10	1, 2, 3, 5, 8 ,10	1, 2, 3, 4, 5, 6, 7, 8 ,9, 10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
NOT							

AHU-2

AHU-4

1: CONTROL CONTRACTOR TO PROVIDE OUTSIDE AIRFLOW STATIONS.

11: CIRCUIT TO PANEL INDICATED ON LOWER LEVEL ELECTRICAL ROOM, SEE SHEET E200A. PROVIDE BREAKER

INDICATED IN PLACE OF EXISTING 20A-1P SPARE BREAKERS. FIELD DETERMINE EXACT EXTENTS.

OR IN RETURN AIR INLET FOR UNIT SHUT DOWN. CONNECT TO UNIT BMS AND FIRE ALARM SYSTEM.

<u> </u>	E DECIGE	D 0 DIEELIO	ED COLLE	DIII E				
KILL	_E, REGISTE	R & DIFFUS	ER SCHEI	DULE				
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	COLOR	REMARKS
SD-1	PRICE	SPD	SUPPLY	LAY-IN/SURFACE	NOTE 4,2	STEEL	WHITE	
SD-2	PRICE	SDGE	SUPPLY	DUCT	NOTE 4,2	ALUMINUM	NOTE 1	8
SD-3	PRICE	CFPJS (2 SLOT)	SUPPLY	LAY-IN/SURFACE	NOTE 4,2	ALUMINUM	NOTE 1	3
SD-4	PRICE	CFPJS (2 SLOT)	SUPPLY	LAY-IN/SURFACE		ALUMINUM	NOTE 1	5
SD-5	PRICE	CFPJS (2 SLOT)	SUPPLY	LAY-IN/SURFACE	NOTE 4,2	ALUMINUM	NOTE 7	3
SD-6	PRICE	500	SUPPLY	SURFACE	NOTE 4,2	STEEL	NOTE 6	
RG-1	PRICE	500	RETURN	LAY-IN/SURFACE	NOTE 4,2	STEEL	NOTE 1	
RG-2	PRICE	500	RETURN	LAY-IN/SURFACE	NOTE 4,2	STEEL	NOTE 6	
EG-1	PRICE	10A	EXHAUST	SURFACE	NOTE 4, 2	ALUMINUM	NOTE 1	

1: FURNISH WITH WHITE FINISH FOR CEILING MOUNTED APPLICATIONS AND PAINTABLE FINISH FOR WALL MOUNTED APPLICATIONS.

2: FURNISH WITH VOLUME DAMPER AT THE DUCT TAP.

3: PREMANUFACTURERED PLENUM ACCEPTABLE WHERE SPACE ALLOWS. 4: FURNISH WITH REMOTE CABLE OPPERATED DAMPER ACTUATOR FOR INACCESSIBLE CEILING APPLICATIONS.

5: PROVIDE BLANK OFF PLATES.

6: FURNISH WITH PAINTABLE FINISH. COLOR BY ARCHITECT. 7: FURNISH WITH BORDER 66 AND COLOR CHART FOR SELECTION BY INTERIORS. MAY REQUIRE MULTIPLE COLORS.

8: FURNISH WITH AIR SCOOP.

smith & boucher ___ engineers

MECHANICAL AND ELECTRICAL - SCHEDULES

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25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617 project number 2314708

1 ADDENDUM 1 3 ADDENDUM 3

JOB NO: 23024 DRAWN BY: SBI **CHECKED BY: RJD**

DATE: 12.07.2023

MHA Food Facility Consultants, LLC Food Facility Planner 7840 Conser Street

Bob D. Campbell Structural Engineer State Certificate of Authority #000442

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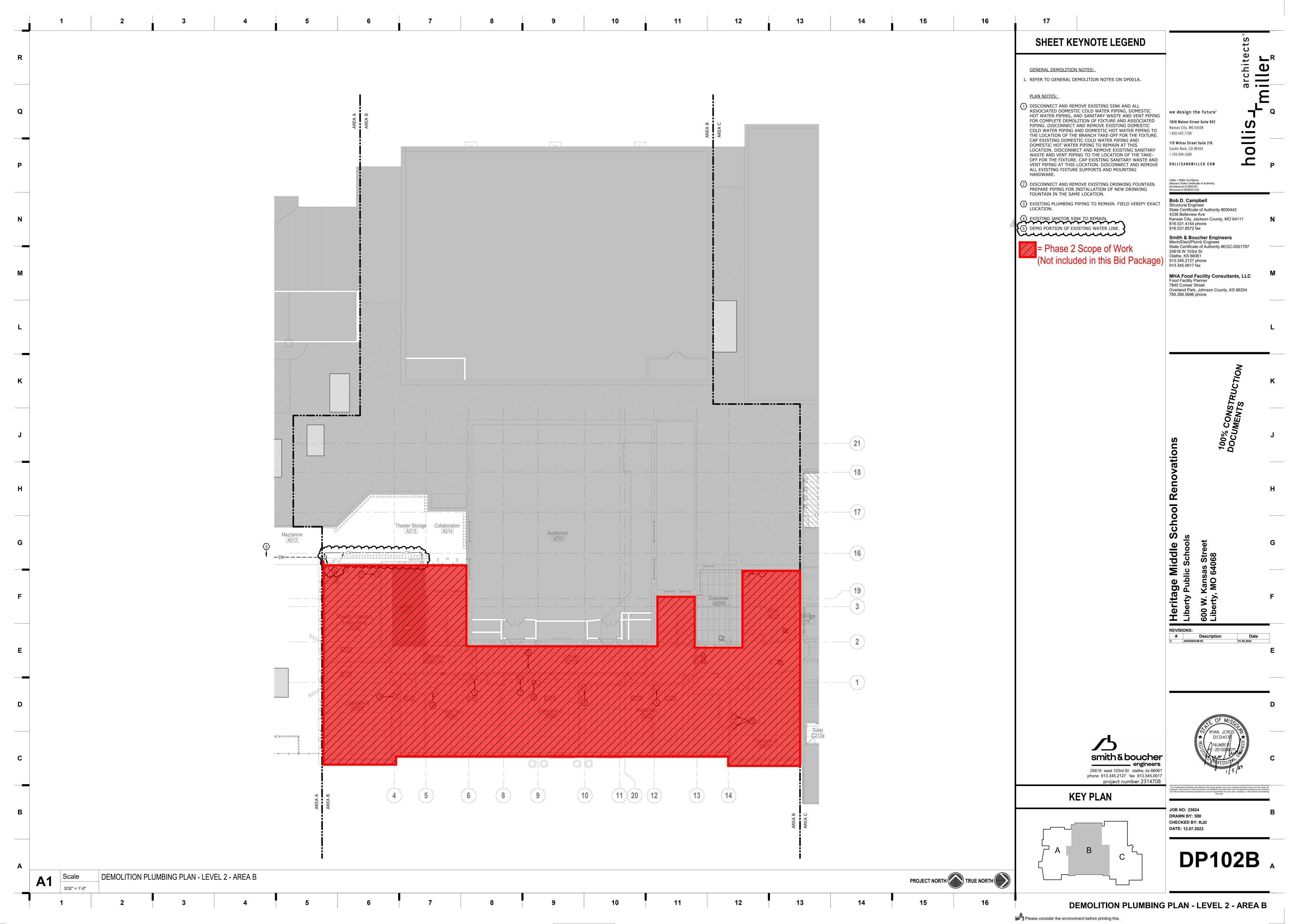
25618 W 103rd St. Olathe, KS 66061 913.345.2127 phone 913.345.0617 fax

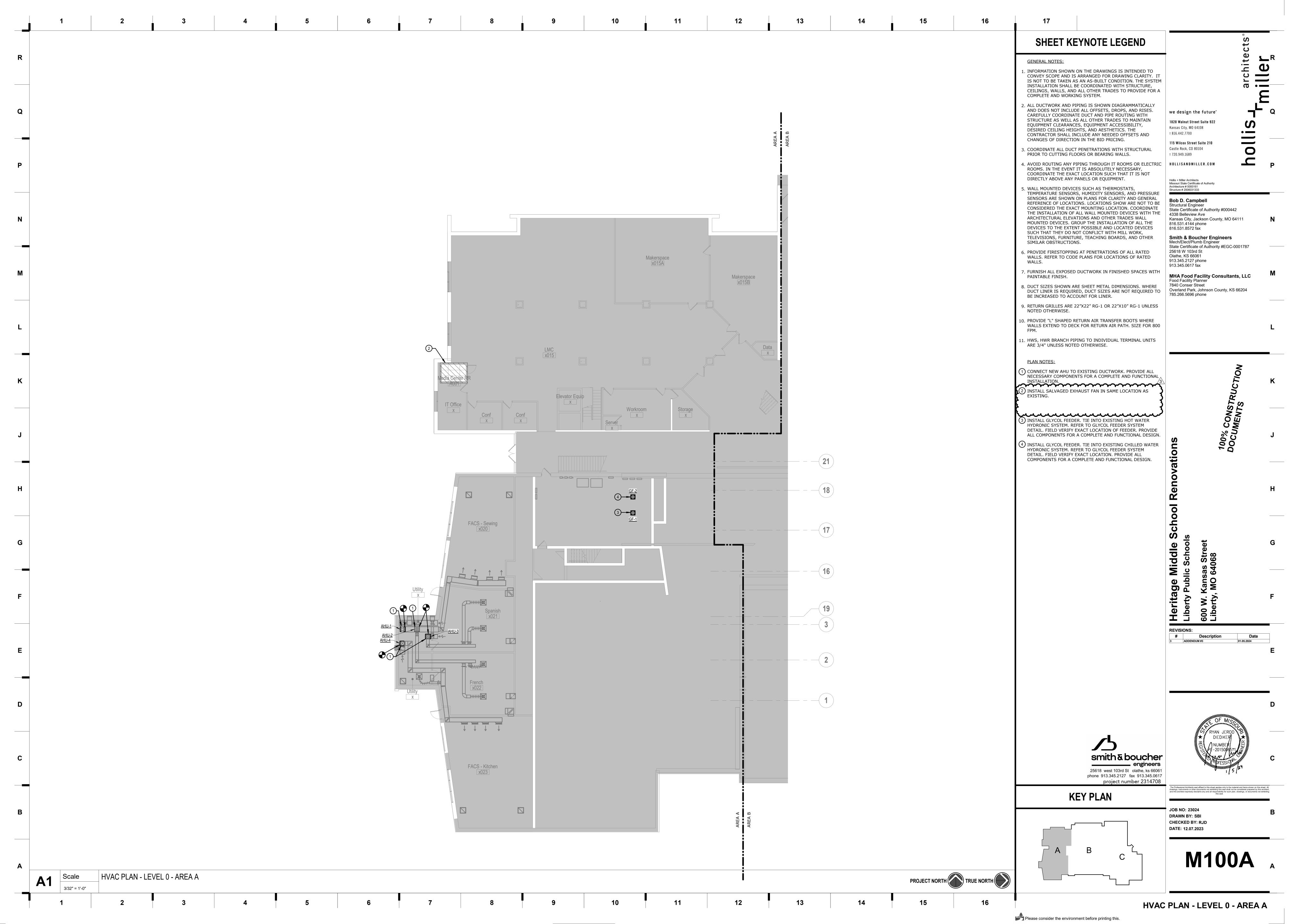
т 816.442.7700

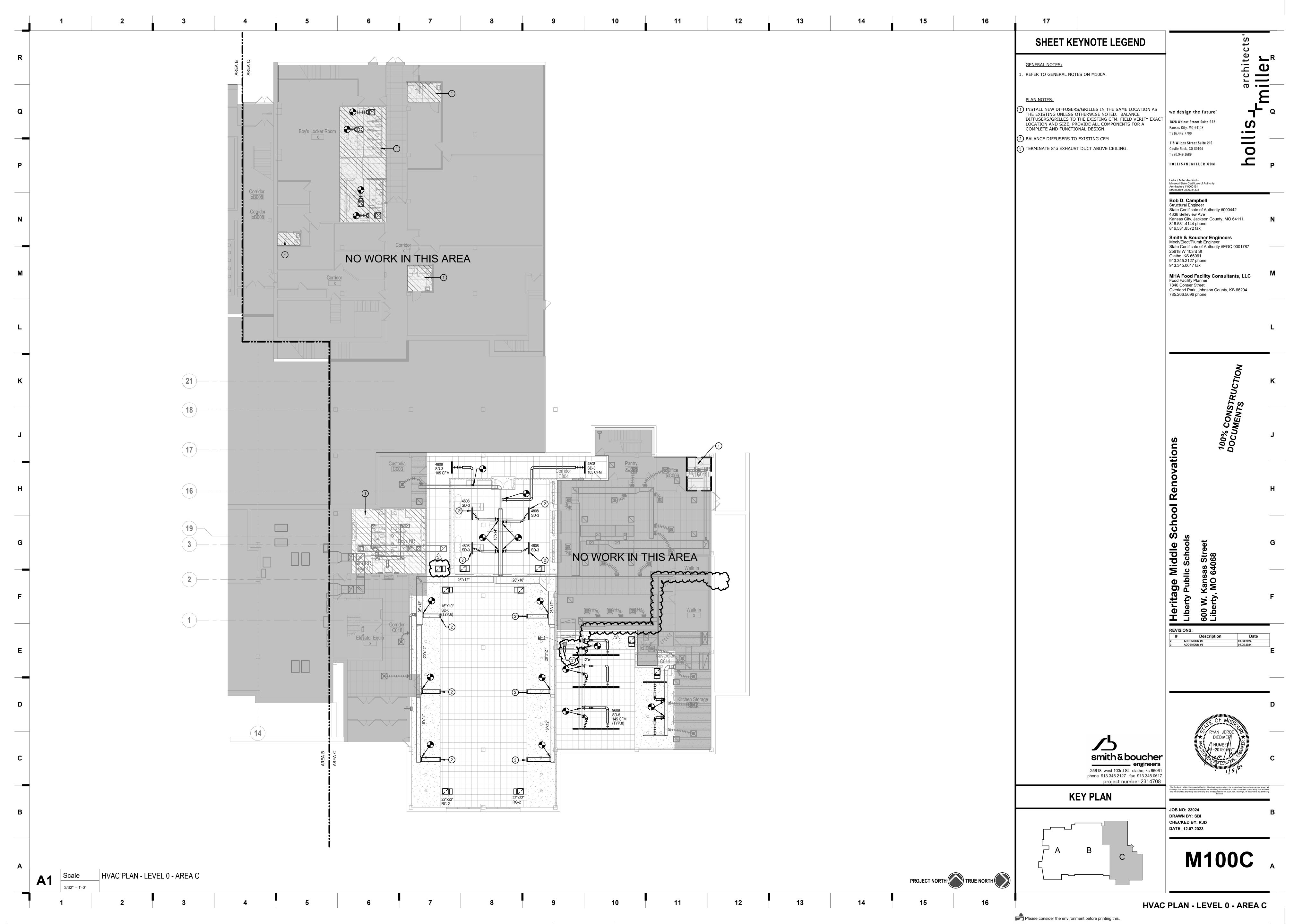
AHU-6

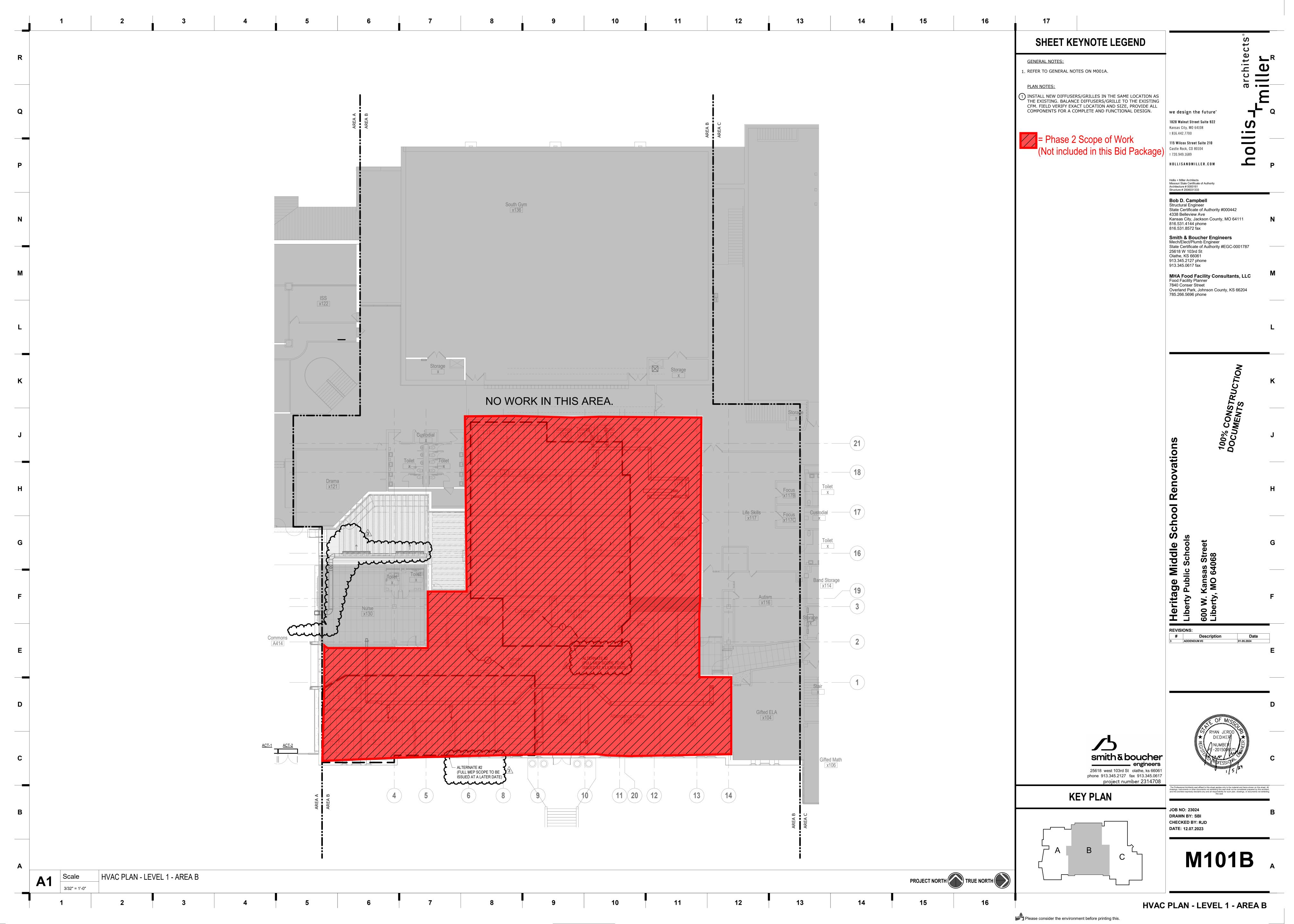
AHU-5

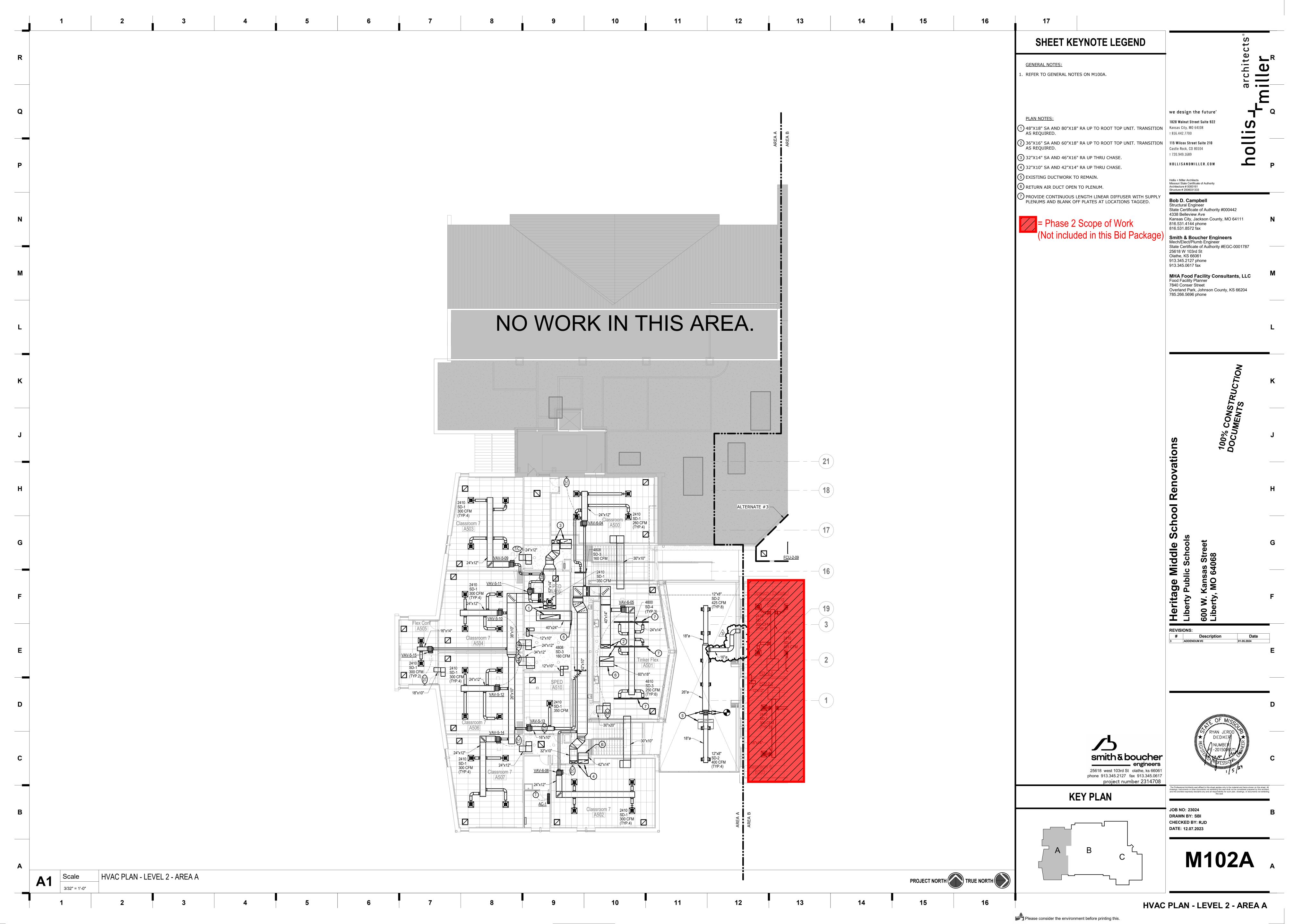
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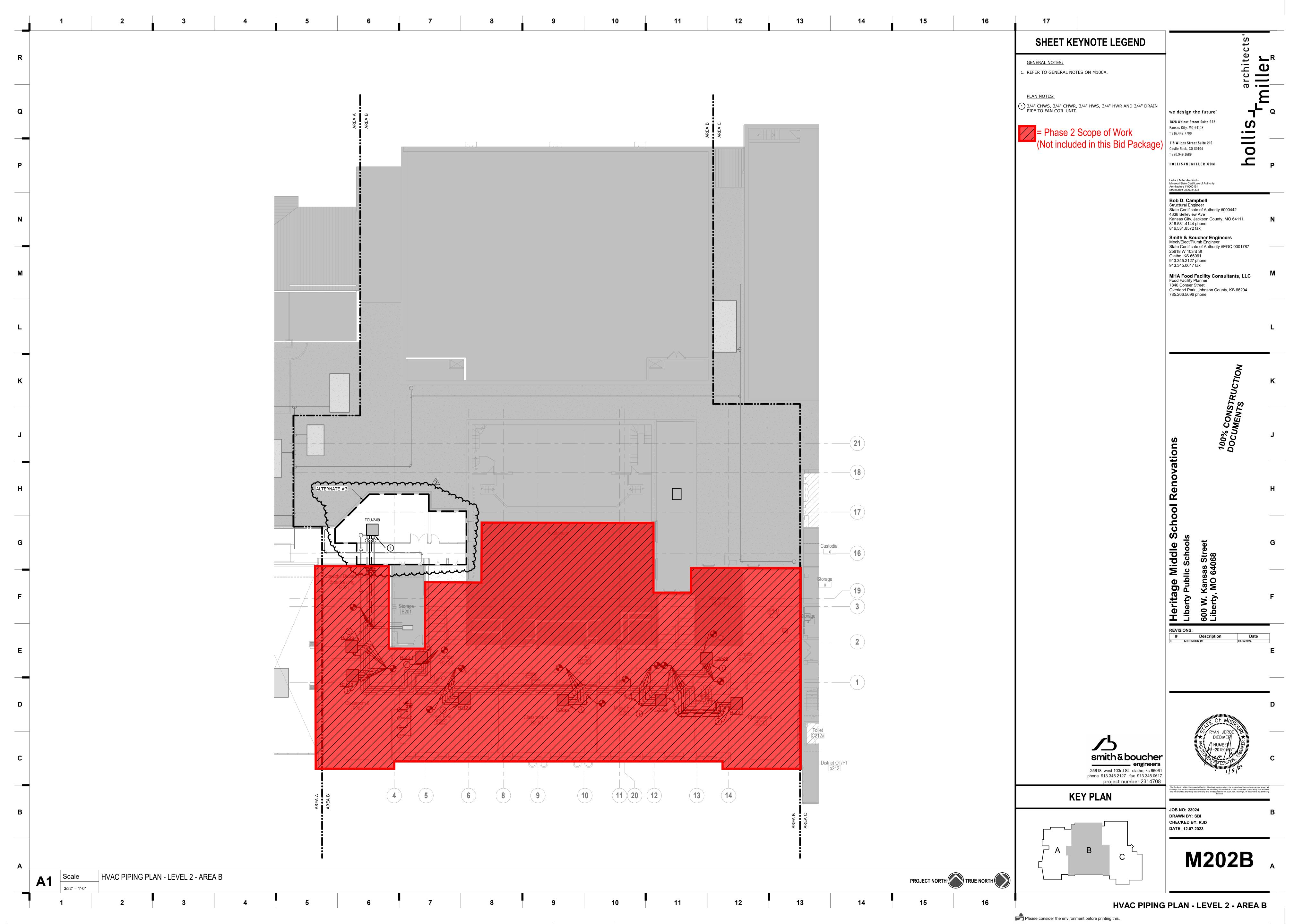


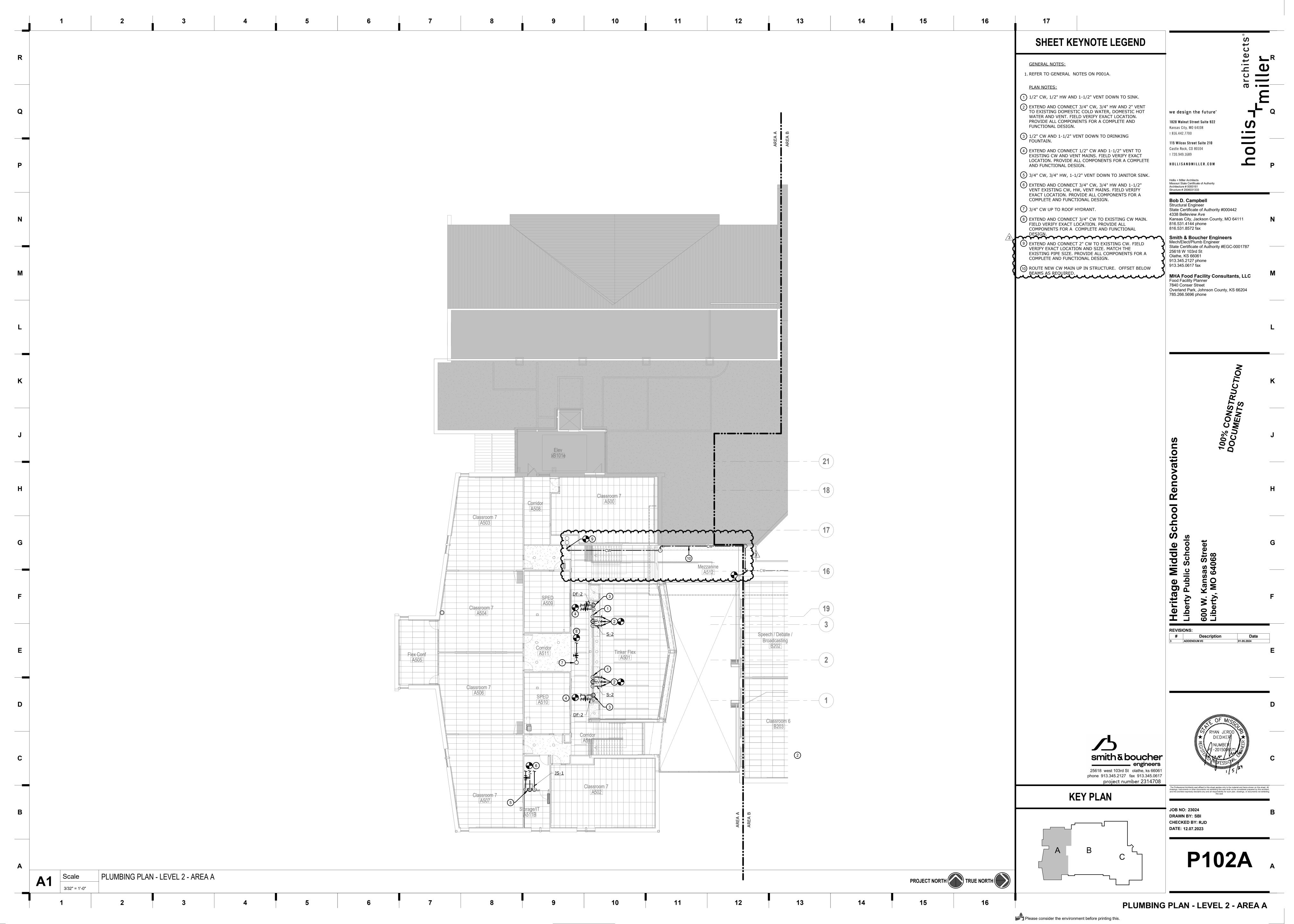




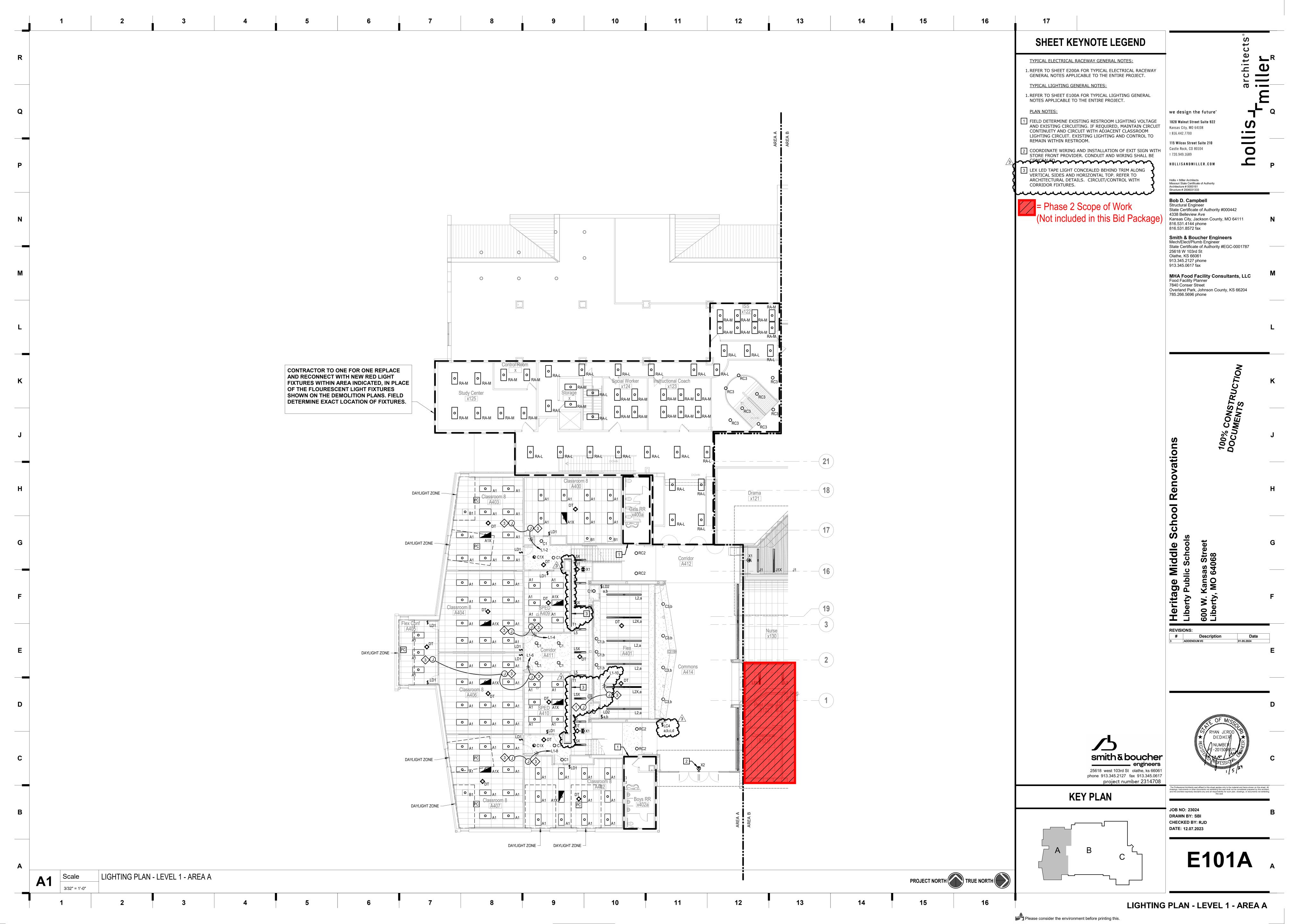


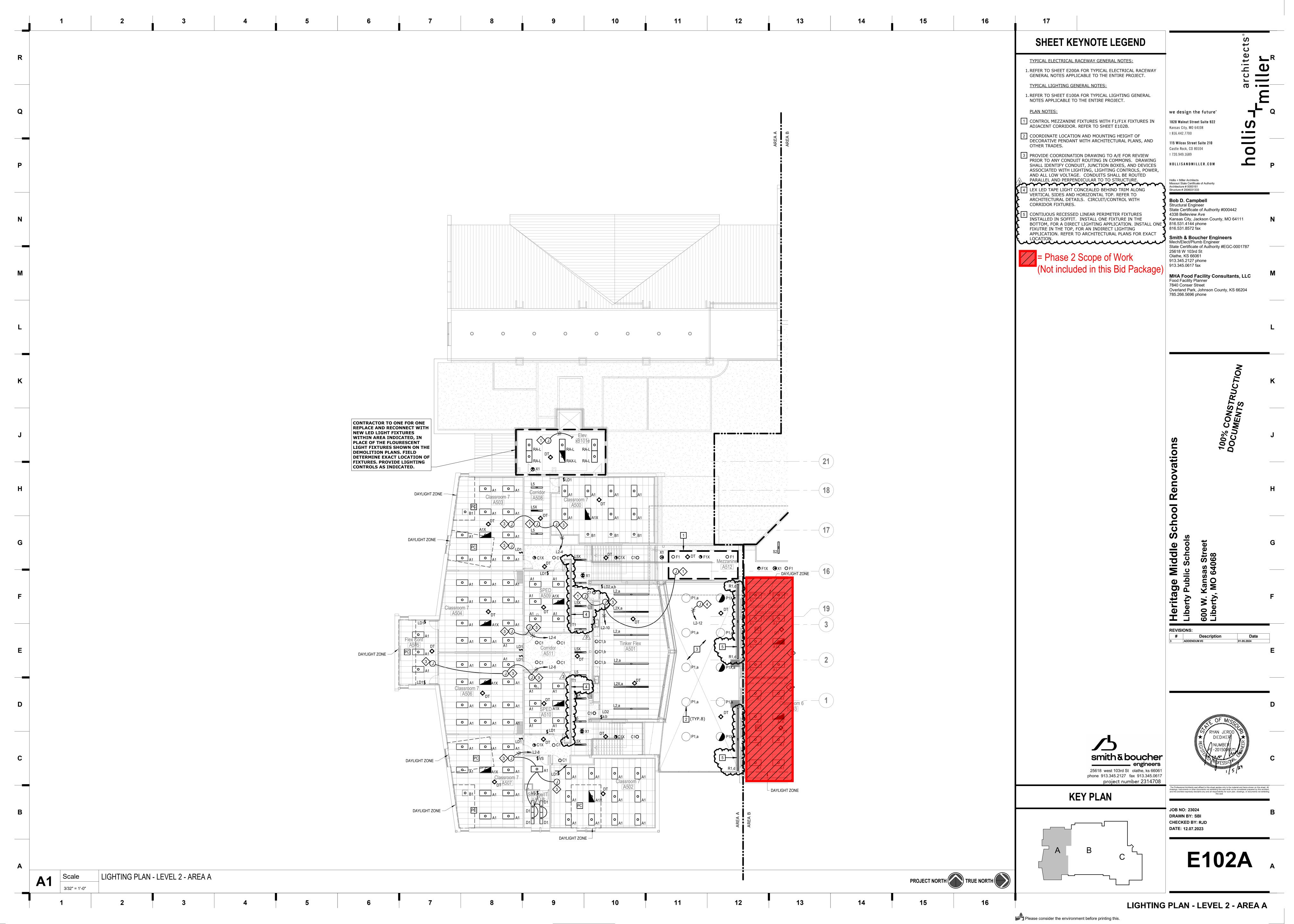


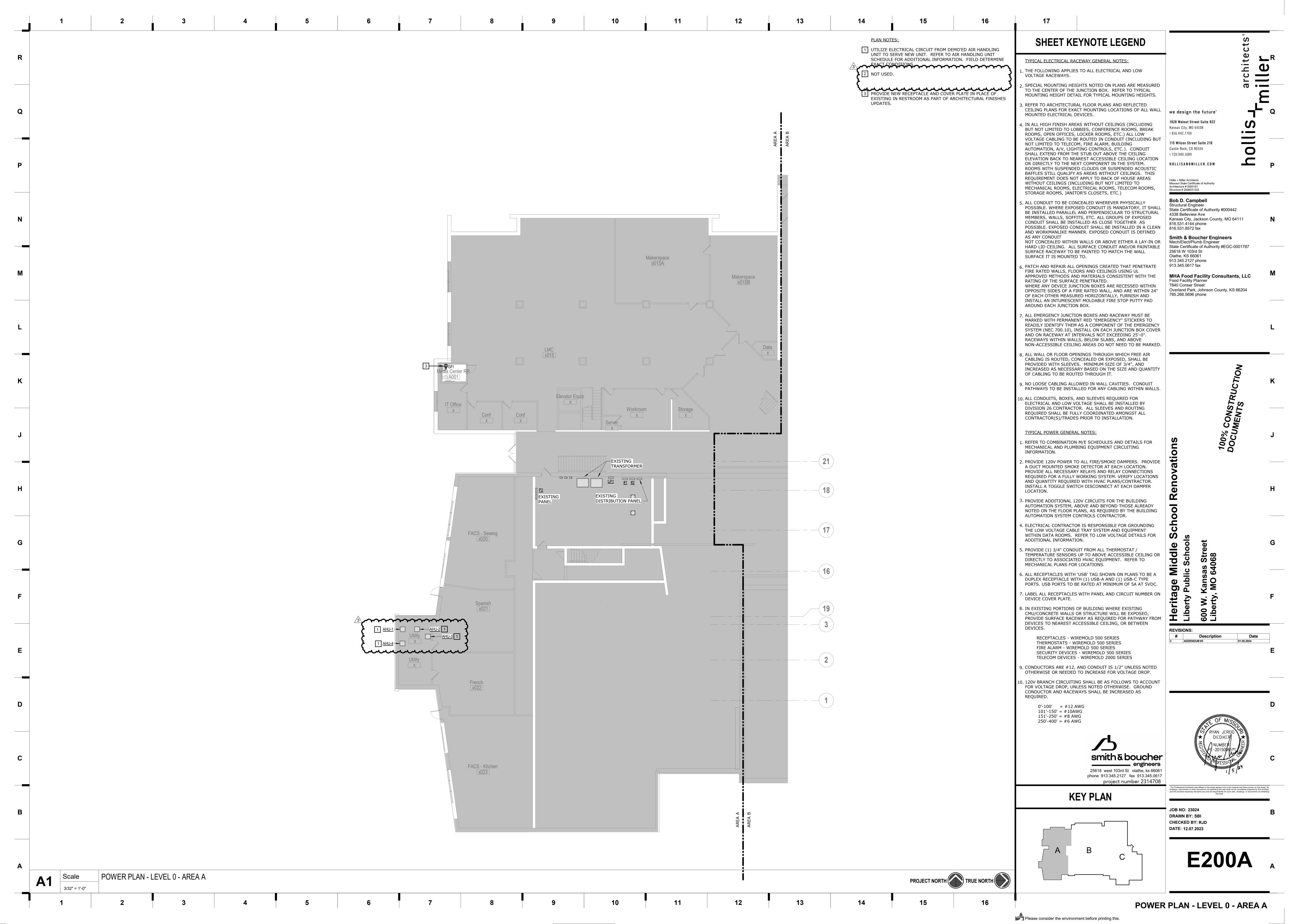




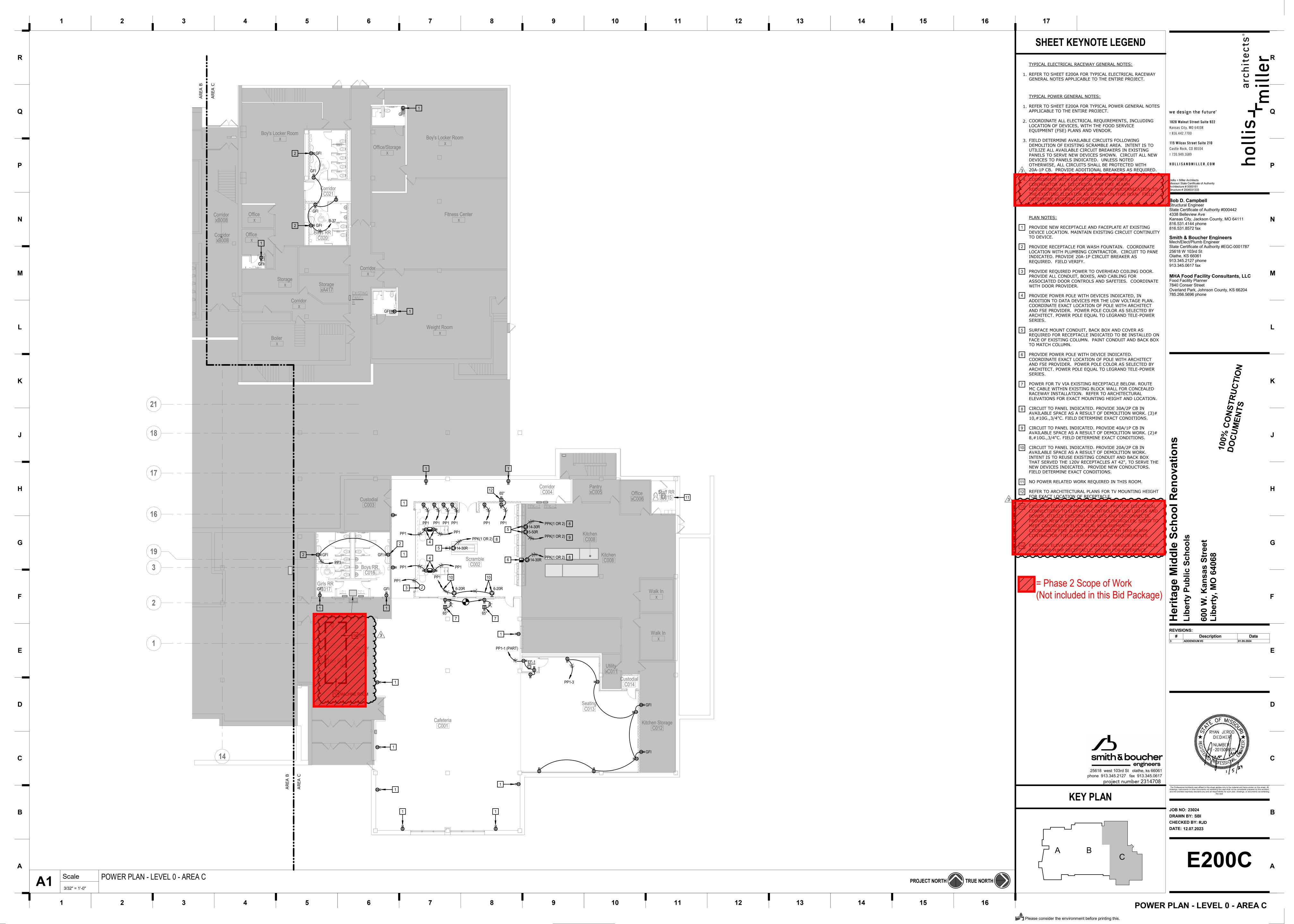


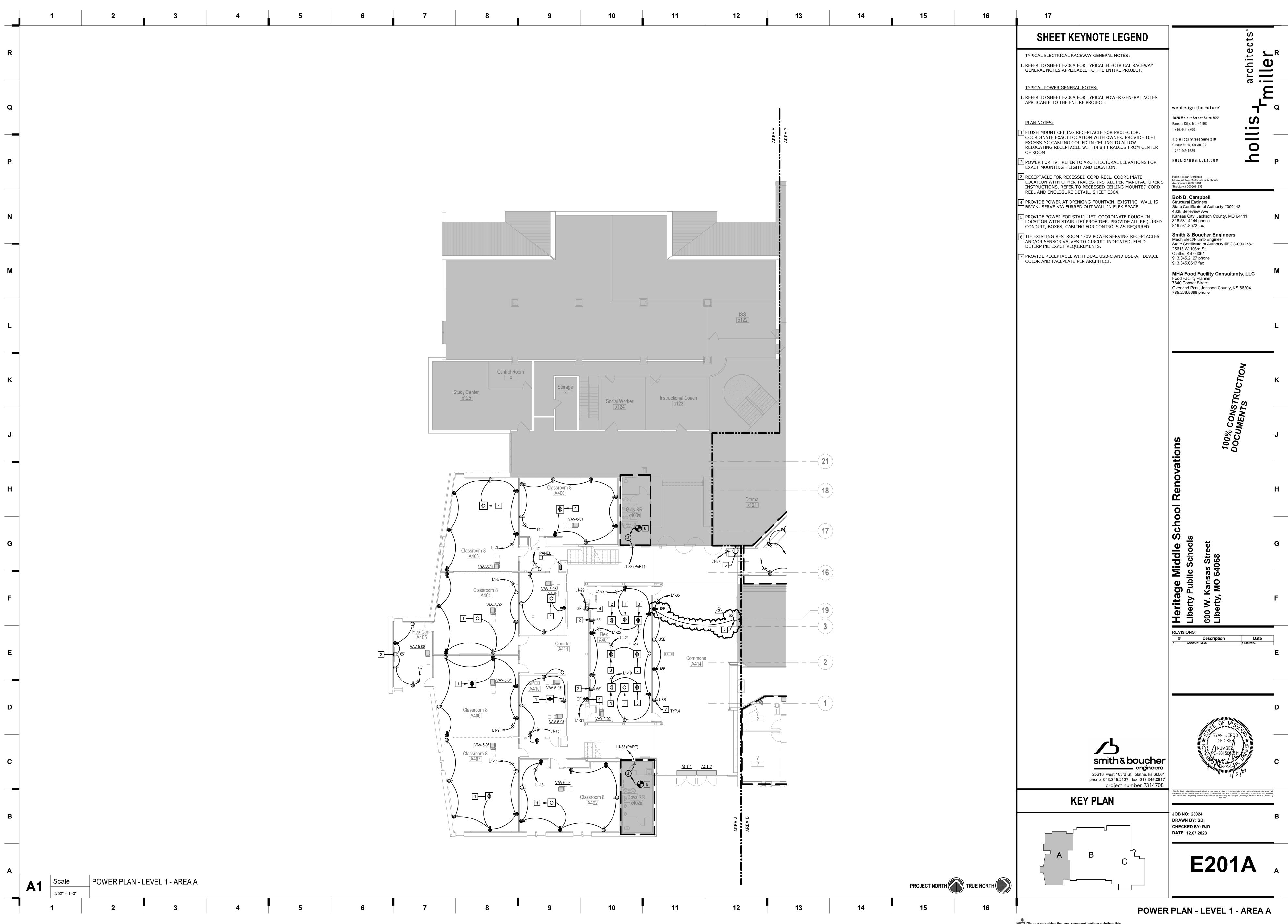




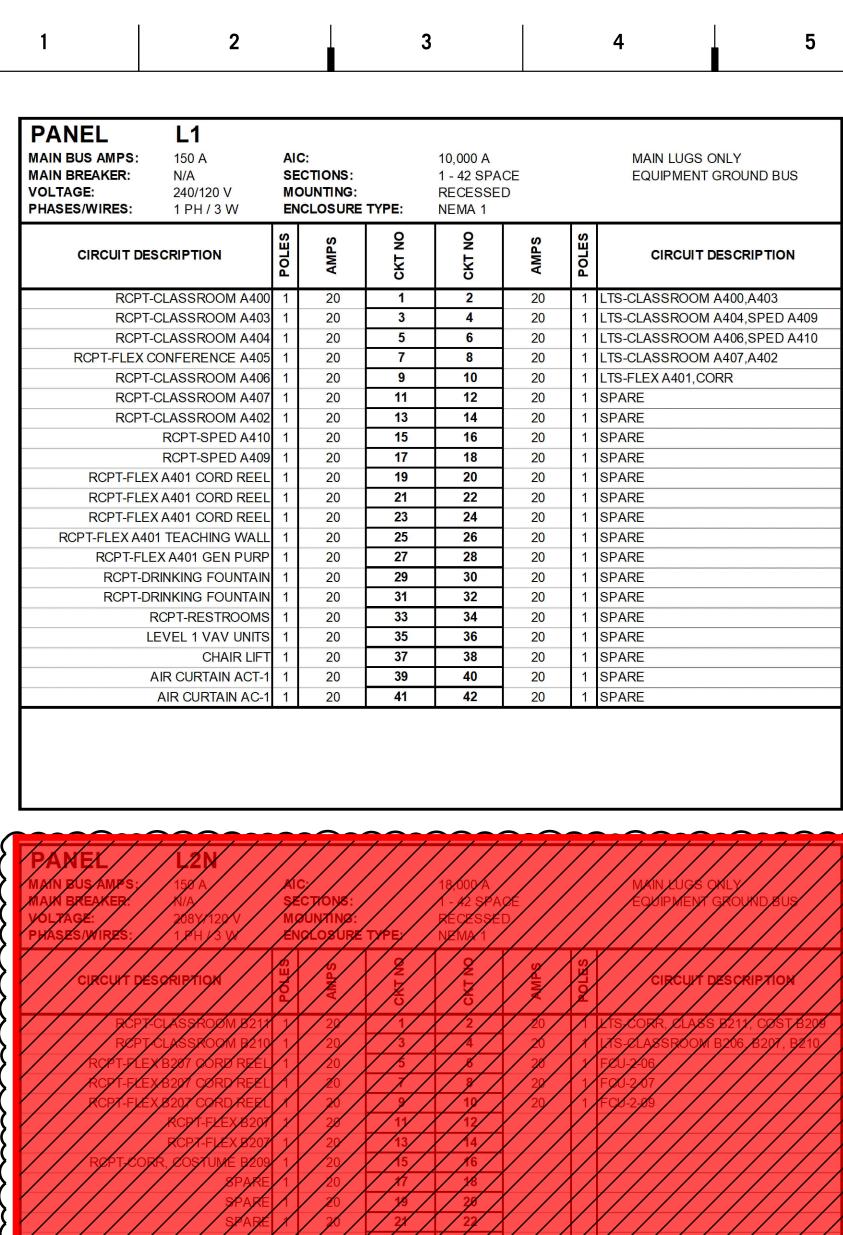




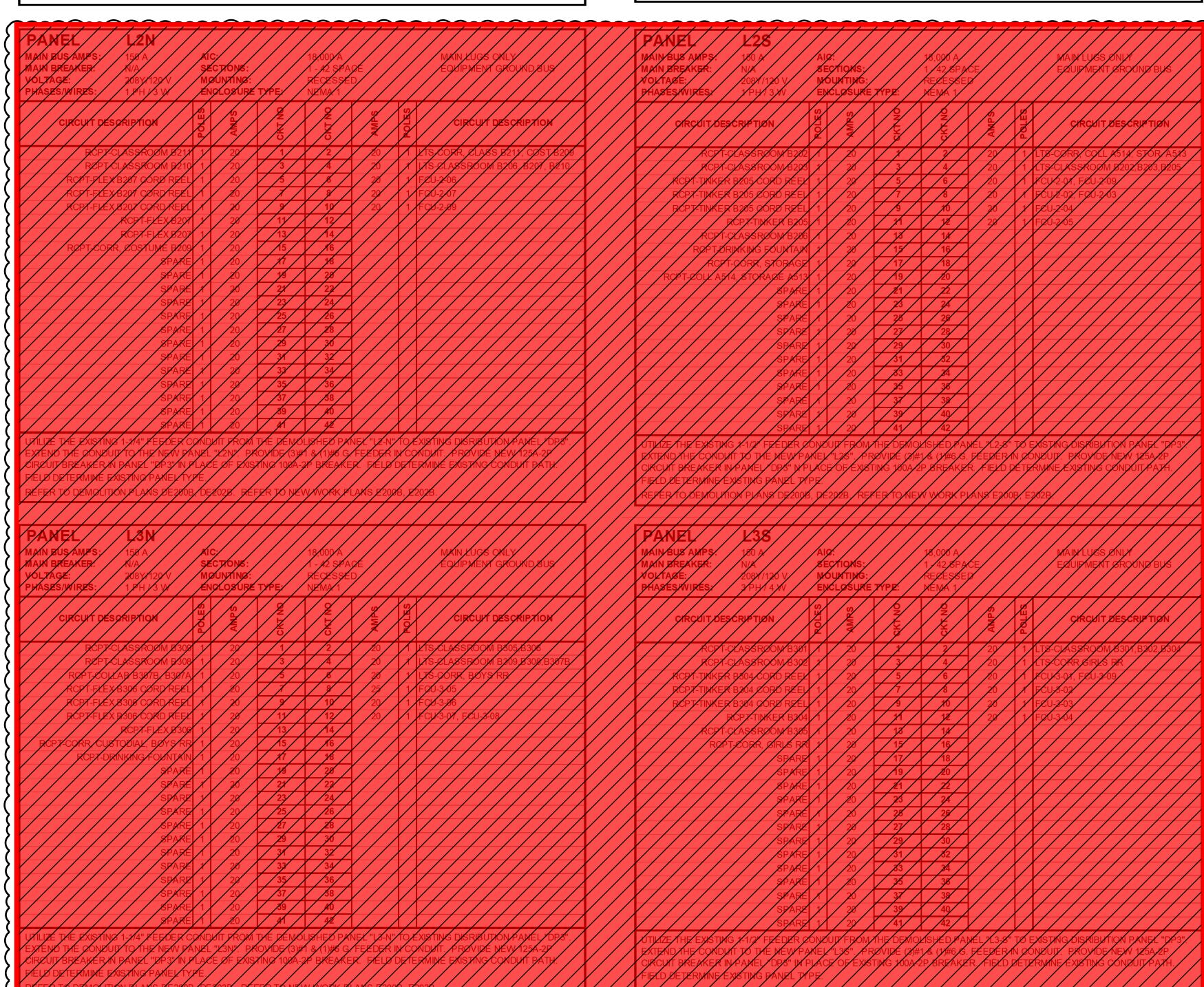








PANEL L2 MAIN BUS AMPS: 150 A MAIN BREAKER: N/A VOLTAGE: 240/120 V PHASES/WIRES: 1 PH / 3 W		M	C: CTIONS: DUNTING: ICLOSURE	TYPE:	10,000 A 1 - 42 SPA RECESSE NEMA 1			MAIN LUGS ONLY EQUIPMENT GROUND BUS		
CIRCUIT DES	CRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION		
RCPT-C	CLASSROOM A500	1	20	1	2	20	1	LTS-CLASSROOM A500,A503,CORF		
RCPT-CLASSROOM A503			20	3	4	20	1	LTS-CLASSROOM A504,SPED A509		
RCPT-CLASSROOM A504			20	5	6	20	1	LTS-CLASSROOM A506,SPED A510		
RCPT-FLEX CONFERENCE A505			20	7	8	20	1	LTS-CLASSROOM A507,A502,JAN,I		
RCPT-CLASSROOM A506			20	9	10	20	1	LTS-TINKER A501, CORR, MEZZANIN		
RCPT-C	CLASSROOM A507	1	20	11	12	20	1	LTS-COMMONS		
RCPT-CLASSROOM A502			20	13	14	25	2	AC-1/ACCU-1		
RCPT-SPED A510			20	15	16			IDF MINI-SPLIT		
RCPT-TINKER A501 CORD REEL			20	17	18	20	1	AHU-5 UV LIGHTS		
RCPT-TINKER	A501 CORD REEL	1	20	19	20	20	1	AHU-6 UV LIGHTS		
RCPT-TINKER	A501 CORD REEL	1	20	21	22	20	1	SPARE		
RCPT-TINKER	R A501 GEN PURP	1	20	23	24	20	1	SPARE		
RCPT-TINKE	R A501 COUNTER	1	20	25	26	20	1	SPARE		
	RCPT-SPED A509	1	20	27	28	20	1	SPARE		
RCPT-DR	INKING FOUNTAIN	1	20	29	30	20	1	SPARE		
RCPT-DR	INKING FOUNTAIN	1	20	31	32	20	1	SPARE		
RCPT-JANITOR'S R	M, IDF GEN PURP	1	20	33	34	20	1	SPARE		
	RCPT-IDF IT RACK	1	20	35	36	20	1	SPARE		
RCPT-IDF EC	QUIPMENT BOARD	1	20	37	38	20	1	SPARE		
	CESS CONTROLS		20	39	40	20		SPARE		
LE	VEL 2 VAV UNITS	1	20	41	42	20	1	SPARE		



(Not included in this Bid Package)

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MHA Food Facility Consultants, LLC
Food Facility Planner
7840 Conser Street
Overland Park, Johnson County, KS 66204

785.266.5696 phone

REVISIONS:

Description

3 ADDENDUM #3

JOB NO: 23024 DRAWN BY: SBI CHECKED BY: RJD DATE: 12.07.2023

smith & boucher 25618 west 103rd St olathe, ks 66061 phone 913.345.2127 fax 913.345.0617 project number 2314708

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ELECTRICAL - SCHEDULES & DETAILS

