NORTH BUNCOMBE MIDDLE SCHOOL: KILN ROOM CONNEX

PROJECT DESCRIPTION:

WORK INVOLVES RENOVATIONS TO A STANDARD 8'X20' SHIPPING CONTAINER FOR PURPOSE OF A KILN ROOM TO SUPPORT THE ARTS PROGRAM. THE CONTAINER IS PROVIDED BY THE OWNER'S VENDOR AND IS UPFIT WITH A PERSONNEL DOOR AND IS PAINTED ON THE EXTERIOR ONLY.

THE CONTRACTOR'S RESPONSIBILITIES INCLUDE: PERMIT COSTS; ACCEPTANCE OF THE CONTAINER UPON DELIVERY; INSTALLATION OF A FOOTING, FOUNDATION WITH SLAB AND ACCESS RAMP WITH HANDRAILS; SETTING OF THE CONTAINER ON THE FOUNDATION; EXTENSION OF ELECTRICAL CIRCUITS FROM THE OWNER'S MAIN ELECTRICAL YARD UNDERGROUND INTO THE CONTAINER; CIRCUITRY AND DEVICES TO SERVE THE KILNS, LIGHTING AND EQUIPMENT; PROVISION AND INSTALLATION OF A PTAC HVAC THRU WALL; PAINTING AND FINISHES AND ALL OTHER WORK SHOWN ON THE DRAWINGS TO PROVIDE FOR A TURN-KEY PROJECT.

THE OWNER WILL INSTALL THE KILNS UPON COMPLETION AND WILL MAKE CONNECTIONS TO THE CONTRACTOR PROVIDED ELECTRICAL AND EXHAUST.

PROJECT SCHEDULE:

PREBID MEETING ON SITE OCT. 8, 2019 @ 1:30PM BID DATE: OCT. 17TH, 2019 4PM COMPLETION DATE: JANUARY 7, 2020 DATE CERTAIN LIQUIDATED DAMAGES OF \$300/DAY APPLY TO LATE COMPLETION

CONTACTS:

BIDDING & PURCHASING: MS. TIFFANY McCANTS, BCS PURCHASING SUPERVISOR PHONE: (828) 255-5891

SUD ASSOC., JEROME HAY, PE (828) 255-4691

DESIGN TEAM:

ARCHITECT: TIMOTHY FIERLE, AIA, BCS FACILITIES DIRECTOR PHONE: (828) 255-5916

PLUMBING **MECHANICAL ELECTRICAL**

SCHOOL CONTACT:

LIFE SAFETY SYSTEMS

MR. KEVIN YONTZ, ASSISTANT PRINCIPAL (828) 645-7944

CABLE TO SERVE KILN CONTAINER. CONDUIT TO TURN UP INSIDE MAINTENANCE SPACE OF CONTAINER — 30' MIN CLEAR CONTAINER TO BUILDING FACE – CUT ASPHALT FOR U.G. DUCTBANK AND $p\!\!\!/$ ATCH BACK WITH COLD $p\!\!\!/$ ATCH FF=2202|.88 GASLINE W/ S/TEEL BARRIER 2 HEAT PUMPS INV = 2195.3FREEZER-TÓP=2206.96 INV=HACCESSIBLE ELECTRICAL — CRITICAL DIMENSION CL FENCE TO CONTAINER CABINETS CONC CQNC 2 HEAT **PUMPS** FF=2208.30/ FF=2208.26 ELEVATED FF=2208.24 MACHINERY CONC. SMH

SIDFWAIK

SHEET INDEX

COVER AND SITE PLAN A102.1 RENOVATION PLAN **MECHANICAL PLAN ELECTRICAL PLAN**

ELECTRICAL: GENERAL

NORTH BUNCOMBE MIDDLE SCHOOL: KILN CONTAINER

No. BUNCOMBE M.S. **KILN ROOM CONNEX**

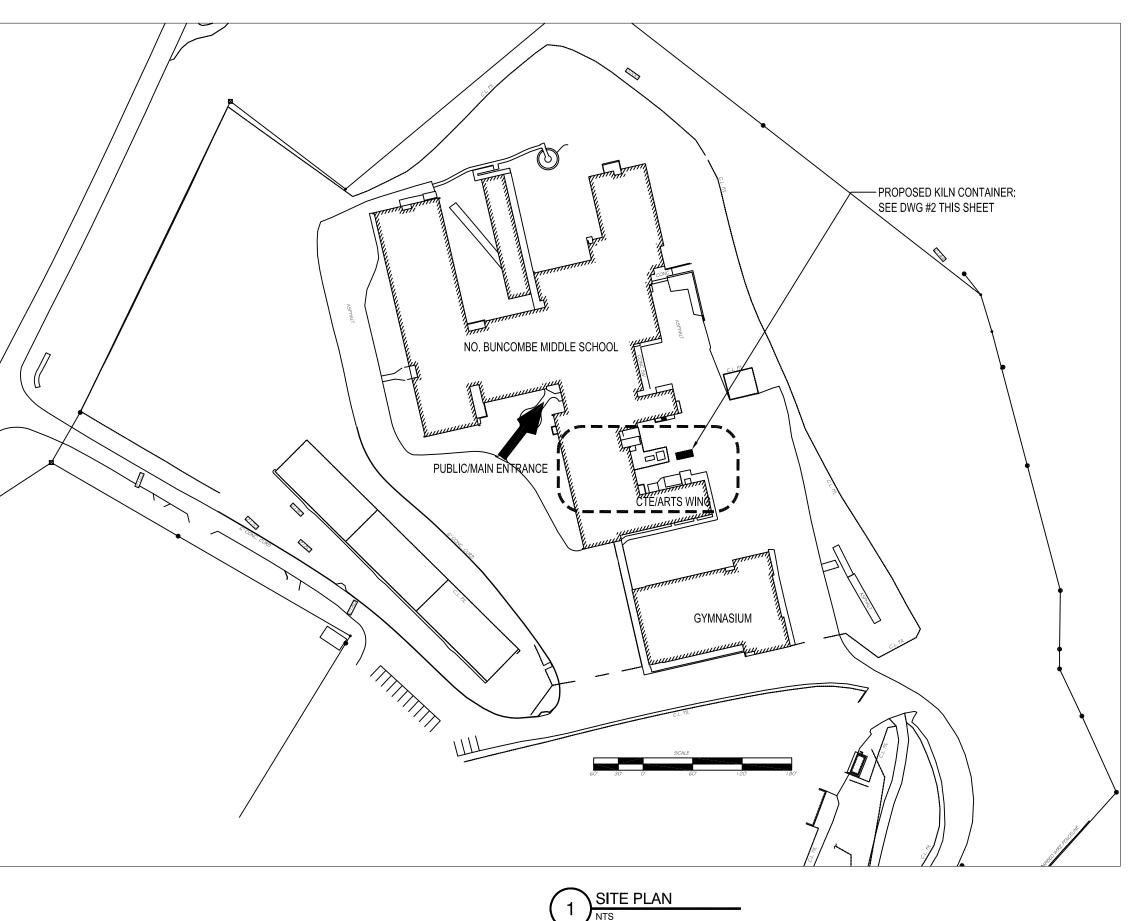
51 No. BUNCOMBE SCHOOL Rd. **WEAVERVILLE, NC 28787**

Buncombe County Schools Legend C Elementary School NORTH O Middle-Schools BUNCOMBE High Schools O Special Schools DISTRICT OWEN

VICINITY MAP

REYNOLDS

DISTRICT



ERWIN

DISTRICT

ENKA DISTRICT

175 Bingham F Phone: (828) *?*

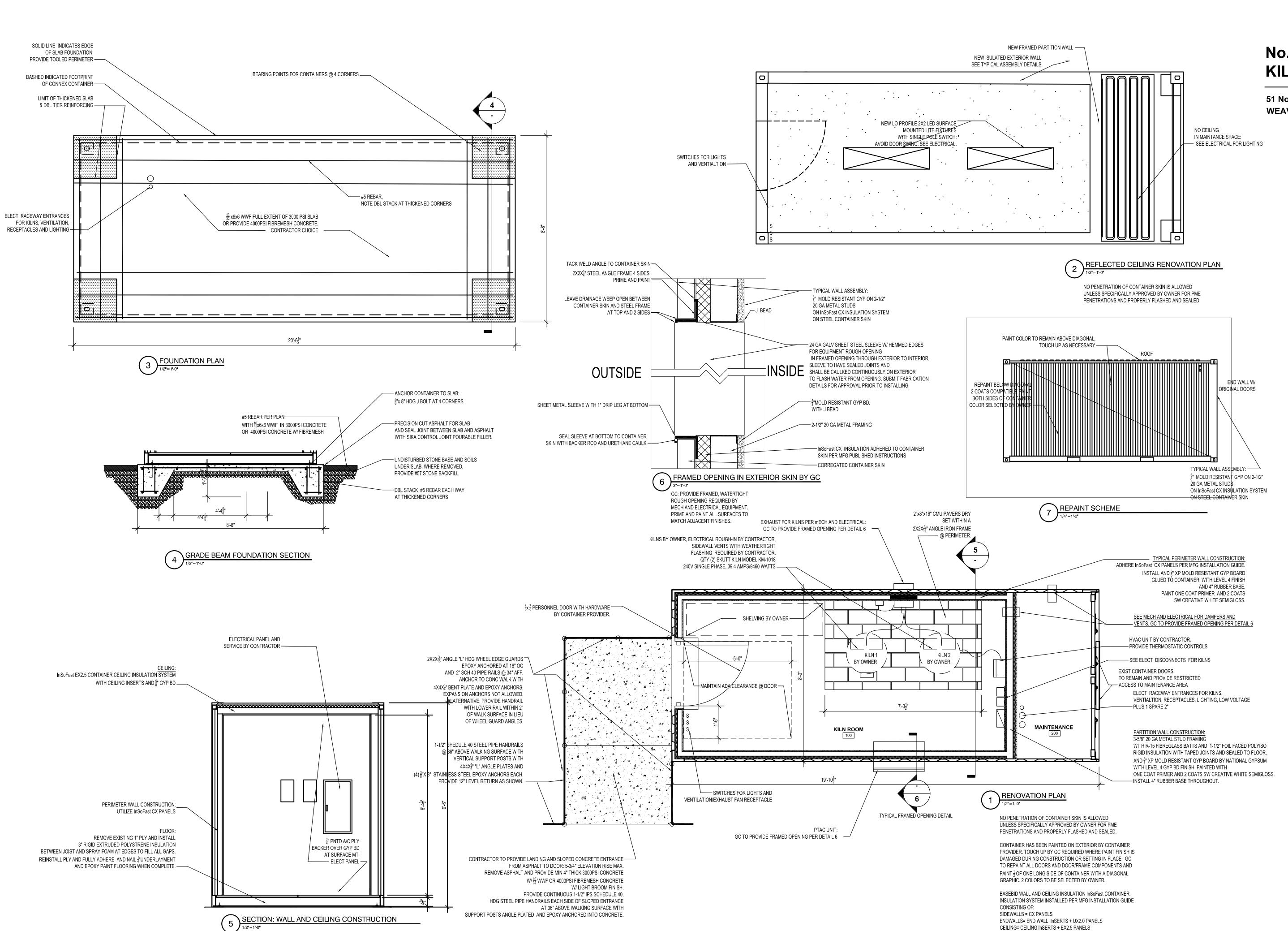
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BID DATE: October 17, 2019 PROJECT: NBMS_KILN

DESIGNED BY: TMF DWG DATE: 9/29/19

SITE PLAN



No. BUNCOMBE M.S. KILN ROOM CONNEX

51 No. BUNCOMBE SCHOOL Rd. WEAVERVILLE, NC 28787

Buncombe County Schools Facilities and Planning

FIERLI

Road 255-5

nam (28)

Binghane: (82

THY M. FIRED ARCHITECT 8920

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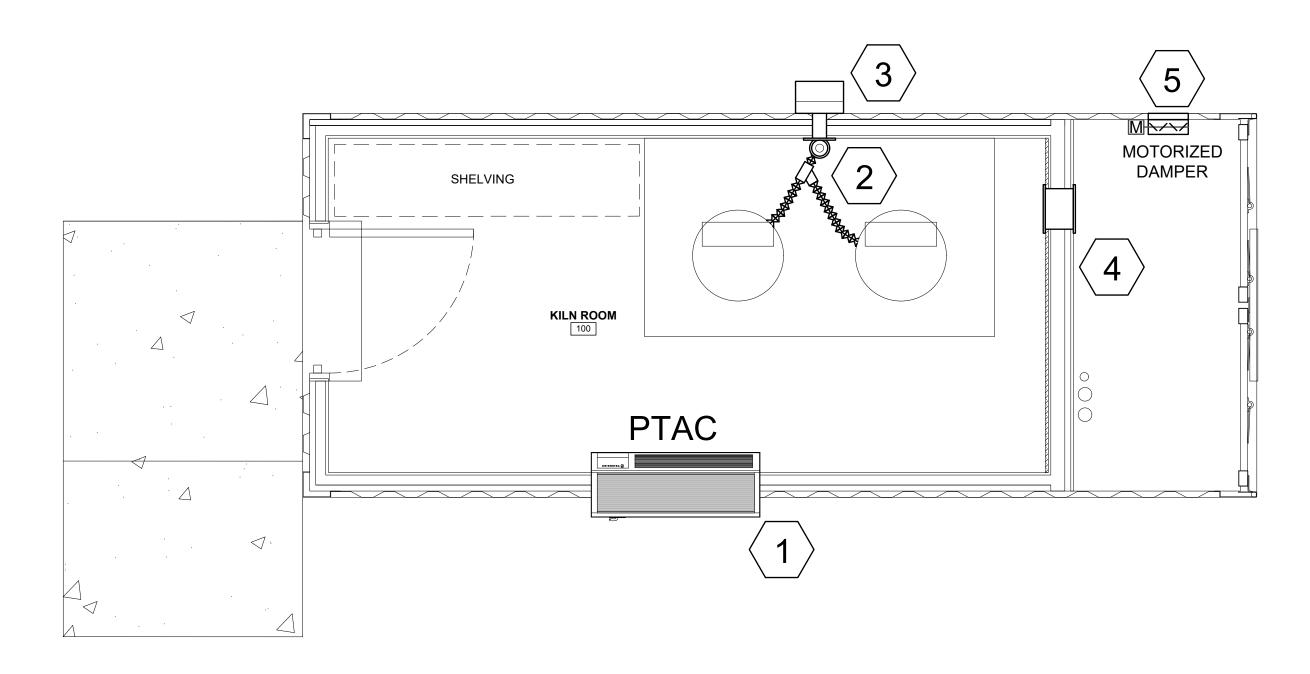
BID DATE: October 17, 2019 PROJECT: NBMS_KILN

ISSUE:

§" ABUSE AND MOLD RESISTANT GYP BD TO BE INSTALLED, FINISHED AND PAINTED SW CREATIVE WHITE SEMIGLOSS.

DESIGNED BY: TMF DWG DATE: 9/29/19

A102.1
RENOVATION PLAN





KEYED NOTES

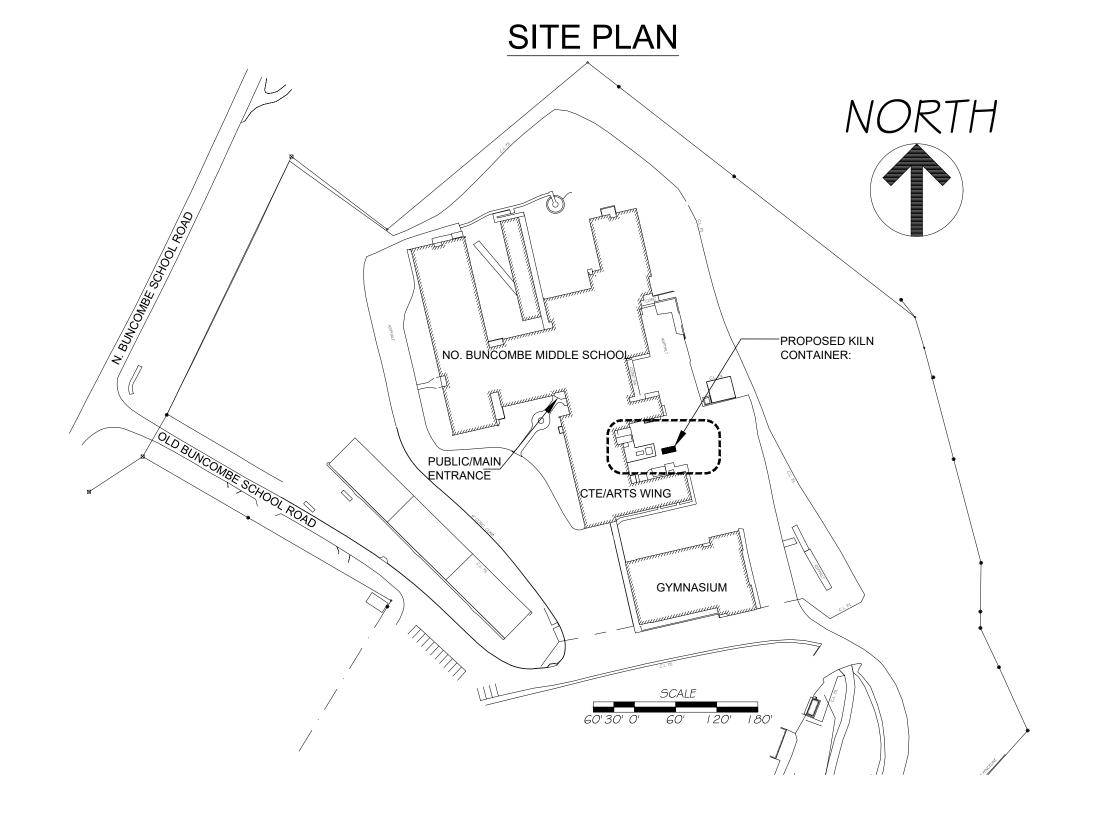
- 1 INSTALL PTAC IN WALL SLEEVE. COORDINATE EXACT LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS
- (2) KILN EXHAUST DUCT AND FAN INSTALLED BY KILN INSTALLER.
- PROVIDE WALL HOOD WITH BIRD SCREEN AND DAMPER. GREENHECK WC 8x8. COORDINATE MOUNTING DETAIL AT CORRUGATED EXTERIOR WITH ARCHITECTURAL DRAWINGS.
- 4 INSTALL 10x10 TRANSFER DUCT AT 60" AFF WITH LOUVERED REGISTERS ON EACH SIDE OF WALL.
- INSTALL 12x12 FIXED LOUVER IN EXTERIOR WALL, GREENHECK ESJ-202 OR EQUAL. COORDINATE MOUNTING DETAIL WITH ARCHITECTURAL DRAWINGS. PROVIDE MOTORIZED DAMPER WITH 120 VOLT ACTUATOR CONTROLLED BY EXHAUST FAN SWITCH. SEE ELECTRICAL DRAWINGS.

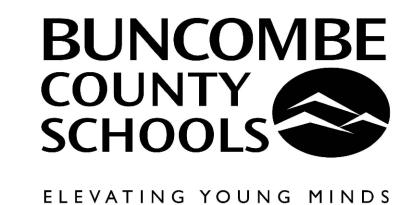
PACKAGED TERMINAL HEAT PUMP SCHEDULE													
MARK	MANU. *	MODEL *	TOTAL CFM	MIN. OA	COOLING				HEATING	ELECTRIC HEAT	VOLTS / PHASE	MCA	МОСР
					TOTAL RATING (F)		(F)	TOTAL (MBH)	H) TOTAL (KW)				
					(MBH)	DB WB OA	TOTAL (MBH)						
PTAC	FRIEDRICH	PZH09K3SB	400	75	9.6	80	67	95	8.5	3.3	208/1	20	30
* BASIS OF DESIGN													

MECHANICAL GENERAL NOTES

- THE BUILDING PLANS ARE BASED ON INFORMATION PROVIDED BY THE ARCHITECT. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, QUANTITIES, AND CONDITIONS PRIOR TO WORK. OWNER WILL NOT APPROVE ANY CHANGE ORDERS RESULTING FROM CONTRACTOR'S FAILURE TO FIELD VERIFY. DRAWINGS SHALL NOT BE SCALED TO DETERMINE ACTUAL DIMENSIONS.
- THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE APPROXIMATE LOCATION OF EQUIPMENT, PIPING AND DUCTWORK. MINOR ADJUSTMENTS AND OFFSETS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE CHANGES IN ROUTING OR OTHER WORK WITH THE ENGINEER PRIOR TO PROCEEDING.
- 3 EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
- 4 CONTRACTOR IS RESPONSIBLE FOR SEALING ALL PENETRATIONS THROUGH ALL WALLS.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE NORTH CAROLINA STATE MECHANICAL CODE.
- 6 UNLESS OTHERWISE INDICATED MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE-DRILLING AND PATCHING OF FLOORING AND WALLS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL RELATED WORK WITH OTHER TRADES.

 MECHANICAL CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS ETC. WITH OTHER TRADES.
- 8 ALL SHUTDOWNS OF THE EXISTING UTILITIES SHALL BE SCHEDULED IN ADVANCE WITH OWNER.
- 9 PROPER FIRE WATCH TO BE MAINTAINED AT ALL TIMES DURING WELDING OR OPEN FLAME USE.





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Buncombe County Schools Facilities and Planning

CONSULTANTS:

SUD ASSOCIATES, P.A.

CONSULTING ENGINEERS
LICENSE NO. C-0315
PROJECT #19252

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
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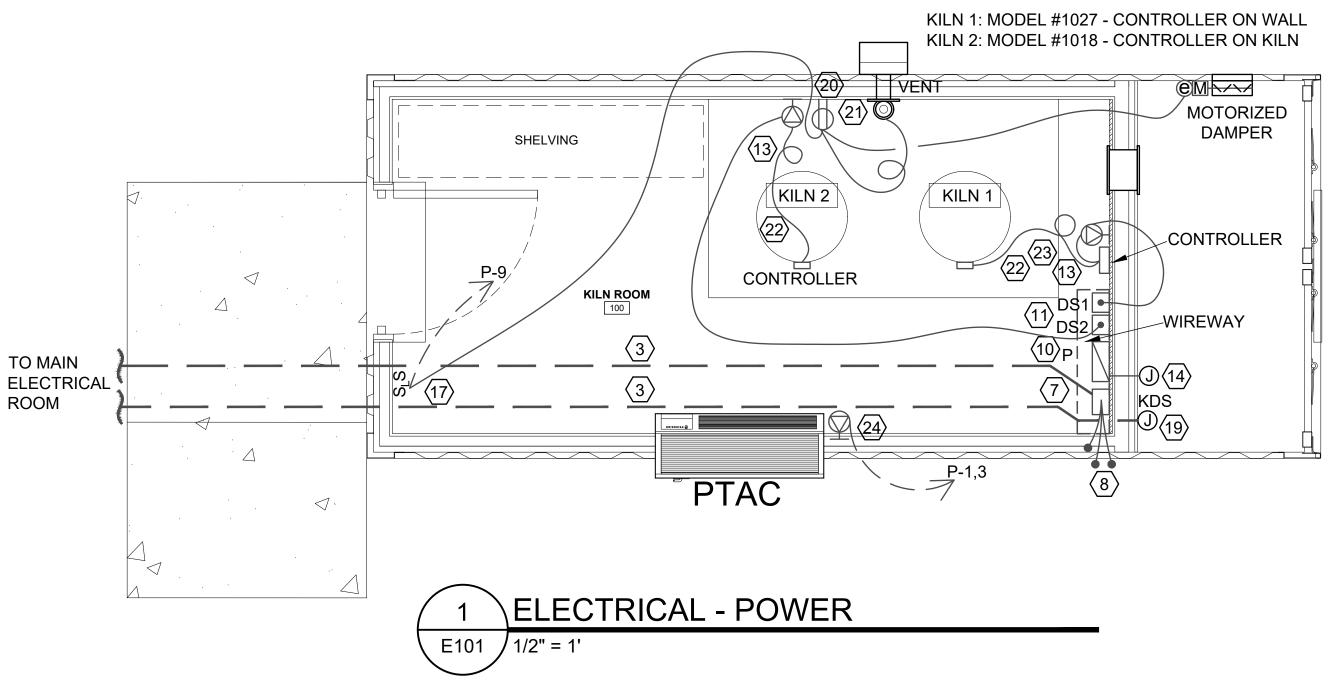


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DESIGNED BY: JCH DWG DATE: 09/27/2019

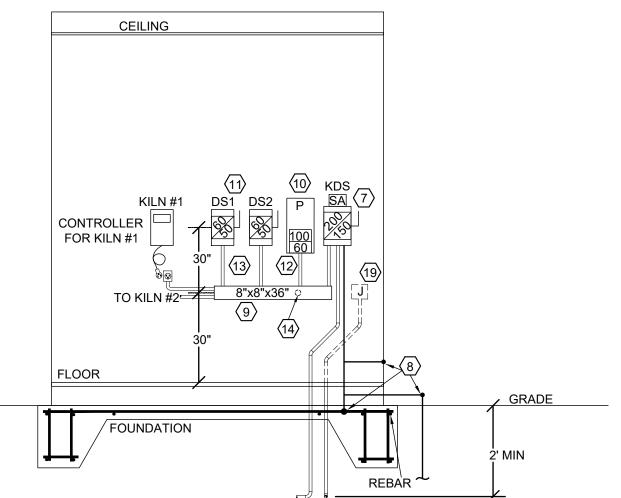
M101 MECHANICAL PLAN

PERMIT SET

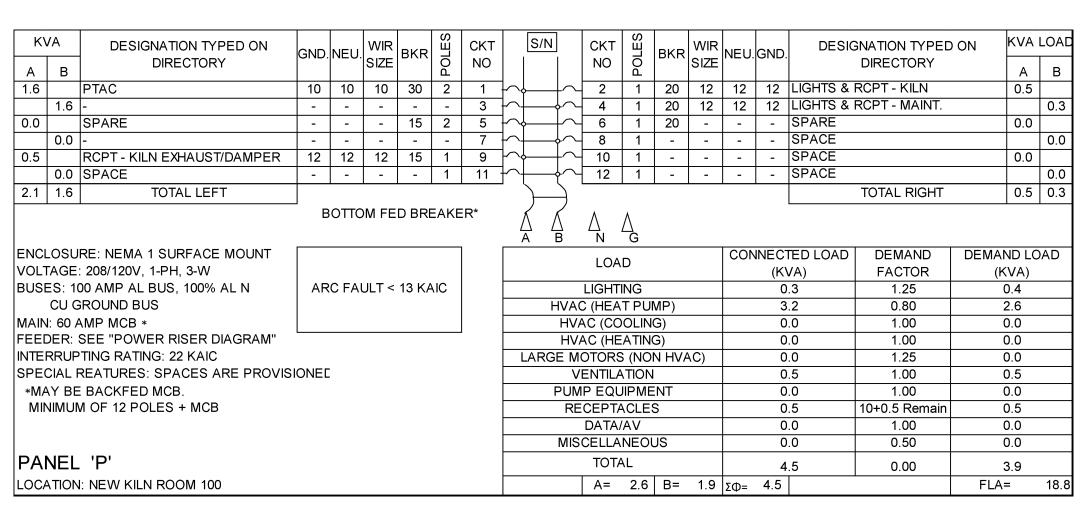


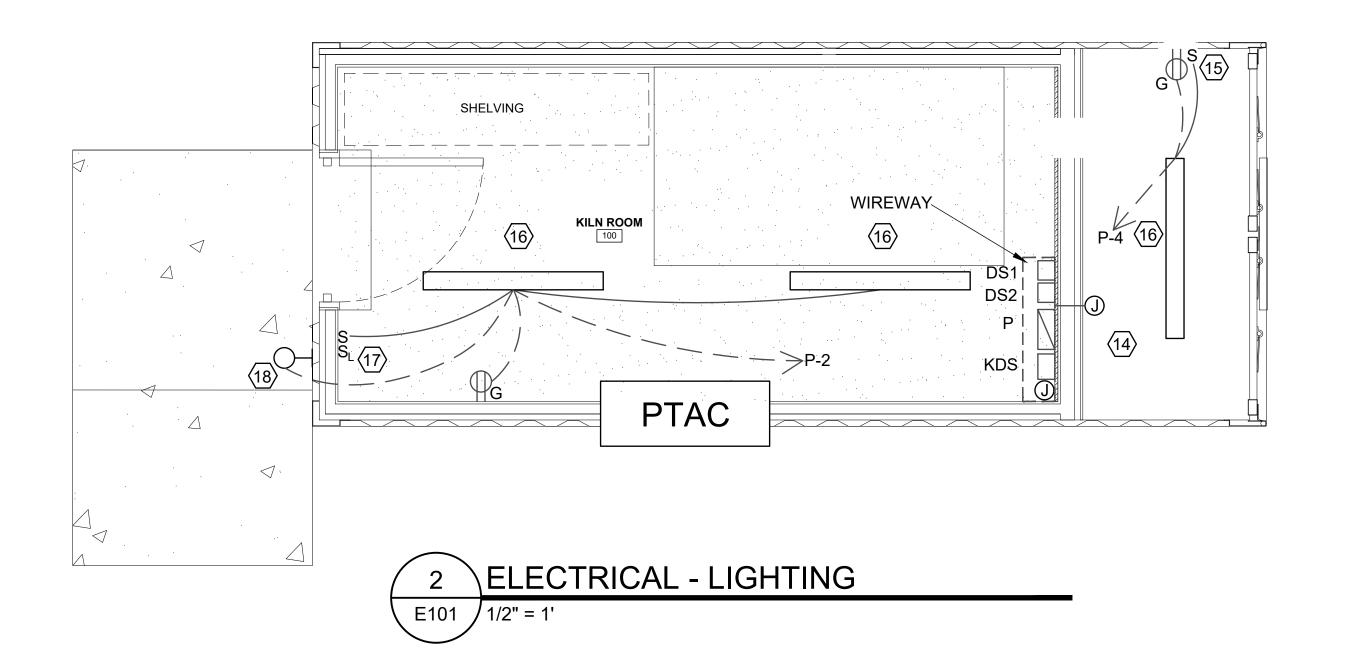
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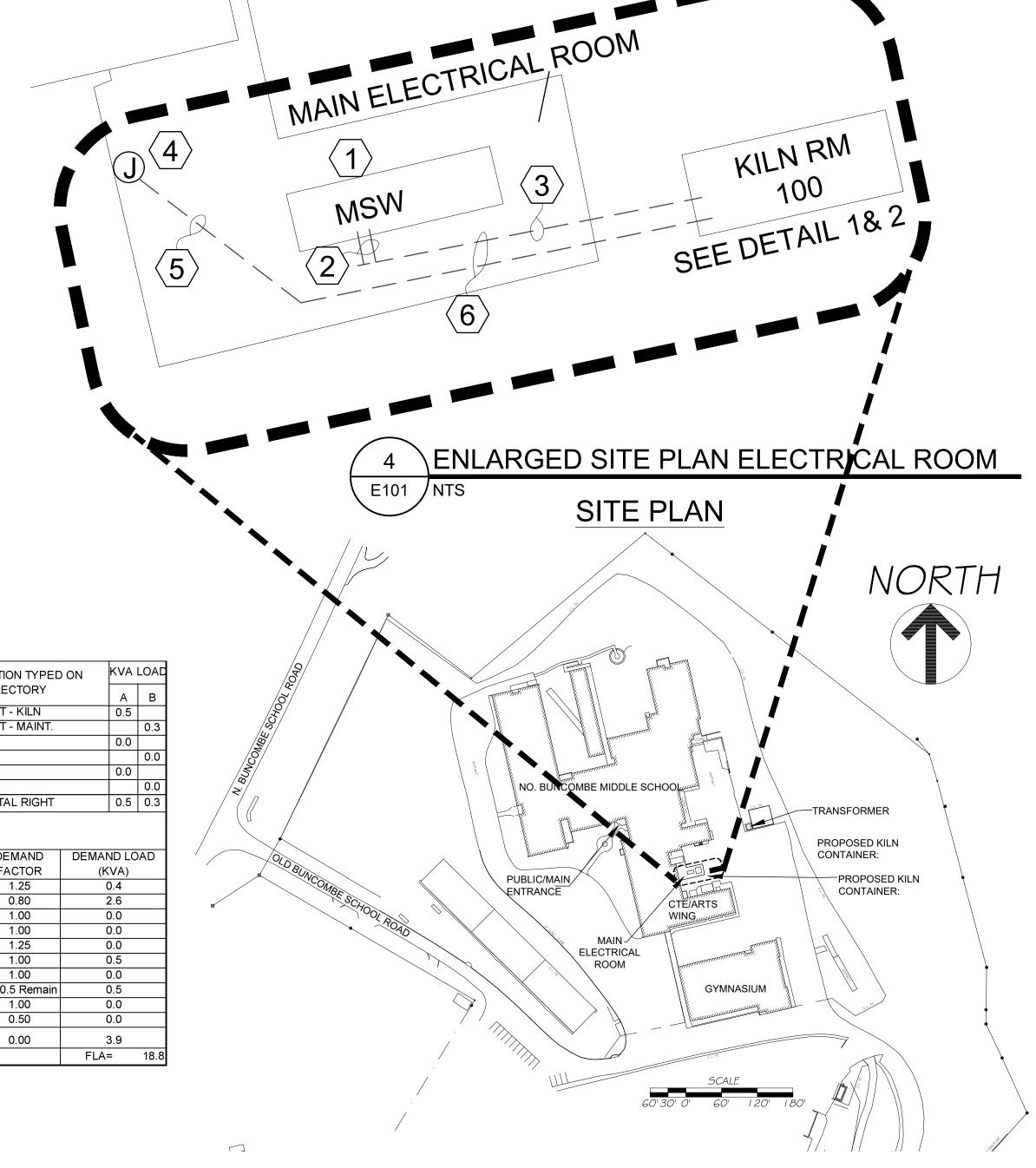
- 1 PROVIDE 150 AMP BREAKER (240 VAC, 65 KAIC) TO MATCH EXISTING IN MAIN SWITCHGEAR. LABEL: KILN BLDG.
- PROVIDE (2) 2" PVC SWEEPS FROM BOTTOM DISTRIBUTION SECTION. ONE IS SPARE TO BE CAPPED AT BOTH ENDS. CONTRACTOR SHALL SCRAPE OFF AND SAVE STONE SURFACE LAYER FOR REUSE WHEN TRENCH BACKFILL IS FINISHED.
- PROVIDE 2" PVC, WITH (3) #1, #6N, #6G. AT 2' BFG MINIMUM TO KDS IN KILN BLDG.
- PROVIDE 12"X12"X4" NEMA 4X PVC JUNCTION BOX AT 30" AFG ON NEXT TO BLDG. SERVICE PULL BOX.
- PROVIDE 2" PVC CONDUIT FROM JUNCTION BOX IN 4 ABOVE TO KILN BLDG. AT 2' BFG MINIMUM TO JUNCTION BOX IN KILN BLDG, SEE 19. PROVIDE PULL STRING.
- $rack{6}$ TAMP TRENCH FILL AND RESTORE SURFACE TO MATCH ORIGINAL CONDITION WITH ORIGINAL GRAVEL STONI
- PROVIDE SERVICE ENTRANCE LISTED 200 AMP FUSIBLE DISCONNECT SWITCH KDS. 240 VAC, 3 PHASE 4 WIRE WITH GROUND LUG. PROVIDE (6) 150 AMP TYPE RK1 FUSES (3) SPARES TO BE KEPT ON WIREWAY. LABEL TOP OF SWITCH: FAULT CURRENT < 40 KAIC. PROVIDE NEC TYPE 1 SPD (IE: SQUARE D SDSA 3650 OR EQUAL) AND WIRE TO LINE SIDE OF DISCONNECT.
- PROVIDE #4 GROUND CONDUCTOR TO CONTAINER WALL AND PAD REBAR OR MESH. ALSO PROVIDE ¾"X10' COPPER CLAD STEEL GROUND ROD OUTSIDE AND NEXT TO CONTAINER. PROVIDE #4 CONDUCTOR TO KDS GROUND.
- PROVIDE 8"X8"X36" NEMA 1 WIREWAY WITH HINGED COVER FOR SPLICING WIRES. SERVICE CONDUIT SHALL NOT GO THRU THIS WIREWAY. PROVIDE (3) #1, #4N, #4G INTO WIREWAY FOR SPLICING. PROVIDE 1-1/4" EMT NIPPLES (NOT I EXCEED 18") TO EACH OF (2) DISCONNECTS AND PANEL P.
- PROVIDE 12 POLE PANELBOARD 'P' PER SCHEDULE THIS SHEET. LABEL PANEL: FAULT CURRENT < 10 KAIC
- PROVIDE (2) 60 AMP FUSIBLE DISCONNECTS (DS1 & DS2), 240 VAC, TWO POLE, THREE WIRE PLUS GROUND LUG. PROVIDE 50 AMP, TYPE RK1 FUSES. PROVIDE (6) FUSES WITH (2) SPARES STORED ON WIREWAY. LABEL TOP OF SWITCH: FAULT CURRENT < 10 KAIC.
- PROVIDE (4) #6, #6 G FROM WIREWAY CABLES TO PANEL P MCB.
- PROVIDE (2) #6, #6N*, #8G FROM WIREWAY CABLES TO EACH KILN DISCONNECT AND PROVIDE CONDUIT WITH SAME WIRES TO RECEPTACLES. PROVIDE MATCHING RECEPTACLES FOR KILN PLUGS. ORIENT RECEPTACLES FOR LOCATION OF PLUG GROUND, GROUND PIN TO BE IN DOWN POSITION FOR KILN #2, (MODEL #1027) AND IN THE UP POSITION FOR KILN #1, (MODEL #1018).
- PROVIDE 1-1/4" NIPPLE FROM BACK OF WIREWAY INTO MAINTENANCE SECTION WITH 6"X6"X3" JUNCTION-PULL BOX. THIS SHALL BE USED TO CIRCUIT LIGHT AND RECEPTACLE IN THIS SPACE.
- PROVIDE 2 GANG BOX AT 4' AFF COORDINATE WITH DOOR.
- PROVIDE INDUSTRIAL LED LIGHTS: DAYBRITE #FSI-4-40L-835-120-NO DIM, SURFACE MOUNTED.
- PROVIDE 2 GANG BOX WITH (2) LIGHT SWITCHES, WIRED TO GFCI RECEPTACLE AND STEEL COVER PLATE. SEPARATE SWITCH FOR KILN'S EXHAUST FAN TO HAVE INTEGRAL 'ON' POSITION INDICATOR LIGHT. EXHAUST SWITCH WILL ALSO CONTROL MOTORIZED DAMPER, COORDINATE WITH MECHANICAL CONTRACTOR.
- PROVIDE WALL PACK AT 8' AFG, STONECO LYTEPRO # LP16-51BZ-PCBWITH INTEGRAL PHOTOCELL AND MOUNTING PLATE. PROVIDE 'BIRD SPIKES' ON TOP OF LIGHT.
- PROVIDE 8"X8"X4" JUNCTION PULL BOX AT 30" AFF. LABEL: TO BLDG. MAIN ELECTRICAL ROOM.
- (20) MOUNT RECEPTACLE WITHIN 3' OF EXHAUST VENT.
- (21) EXHAUST FAN FURNISHED BY KILN OEM WITH POWER PLUG.
- 50 AMP, HEAVY DUTY, 6' CORD AND NEMA PLUG PROVIDED BY KILNS OEM. ROUTE UNDER KILNS, NOT ON SIDES OF KILNS.
- KILN #1 HAS 50 AMP PLUG THAT PLUGS INTO CONTROLLER. MOUNT CONTROLLER ON WALL WITH WORKING CLEARANCE PER NEC 110. CONTROLLER ALSO HAS 50 AMP PLUG. PROVIDE 50 AMP RECEPTACLE, NEMA CONFRIGURATION TO MATCH PLUG, UNDER CONTROLLER. PROVIDE 1"C, (2 OR 3) #6 + #10G TO DISCONNECT DS1.
- PROVIDE RECEPTACLE, NEMA 6-20R CONFIGURATION, FOR PTAC. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.



	SECTION VIEW	POWER	ONE	LINE
)1	NTS			









ELEVATING YOUNG MINDS

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E101 ELECTRICAL PLAN

PERMIT SET

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AL ALUMINUM

BFG BELOW FINISHED GRADE

C CONDUIT (OR DEVICE COUNTER HEIGHT)

CU COPPER OR CONDENSING UNIT

EC ELECTRICAL CONTRACTOR

EF EXHAUST FAN

ER REMTOE EMERGENCY LIGHT

EX EXIT SIGN

FMC FLEXIBLE METAL CONDUIT

G GROUND

GC GENERAL CONTRACTOR

GFI GROUND FAULT INTERRUPTER

MC MECHANICAL CONTRACTOR

MCA MINIMUM CIRCUIT AMPACITY

MCB MAIN CIRCUIT BREAKER

MDS MAIN DISCONNECT SWITCH

MSW MAIN SWITCH GEAR

N NEUTRAL

NIC NOT IN CONTRACT

OEM ORIGINAL EQUIPMENT MANU.

PVC POLYVINYL CHLORIDE PIPE

PNL PANELBOARD

SA SURGE ARRESTER

TBD TO BE DETERMINED

UON UNLESS OTHERWISE NOTED

VAC VOLTAGE AC

W WET LOCATION RATED

WIR WIRE (SIZE/RATING)

SCOPE OF WORK

PROVIDE TEMPORARY CONSTRUCTION PHASE POWER AND LIGHTING FOR ALL TRADES AS NEEDED.

PROVIDE SUBMITTALS ON ALL POWER, LIGHTING, AND CONTROLS EQUIPMENT.

PROVIDE ALL ELECTRICAL SHOWN ON DRAWINGS AND SPECIFICATIONS AND AS NEEDED TO PROVIDE A COMPLETE FUNCTIONAL INSTALLATION IN COMPLIANCE WITH STATE AND LOCAL CODES.

PROVIDE FIELD COORDINATION WITH OTHER TRADES AND PROVIDE RED-LINE MARKED UP DRAWINGS TO OWNER OF ALL FIELD

CHANGES.

TEST ALL MOTORS FOR CORRECT ROTATION. TEST ALL LIGHTING AND SWITCHING FOR PROPER FUNCTION.

ASSIST OTHER TRADES IN TESTING OF HVAC EQUIPMENT.

TEST AND DEMONSTRATE OUTDOOR LIGHTING TO OWNER.

PROVIDE ALL REQUIRED ELECTRICALLY RELATED PERMITS AND INSPECTIONS.

PROVIDE ONE YEAR WARRANTY ON ALL PARTS AND LABOR FROM DATE OF PROJECT ACCEPTANCE

GENERAL NOTES (ALL ELECTRICAL SHEETS)

- THIS DRAWING IS DIAGRAMMATIC AND INDICATES THE APPROXIMATE LOCATION OF DEVICES AND EQUIPMENT. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON SITE. MINOR ADJUSTMENTS AND OFFSETS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 2 PROVIDE ALL WORK IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AND IN AN INDUSTRY STANDARD WORKMANLIKE MANNER.
- NMC (ROMEX AND SE CABLE FOR FEEDERS) IS NOT ACCEPTABLE. AC/MC CABLE IS ACCEPTABLE WHEN FISHED INSIDE EXISTING WALLS, FOR WHIPS, AND IN CONCEALED LOCATIONS. EMT CONDUITS WITH CRIMP COUPLINGS AND CONDUCTORS SHALL BE USED IN EXPOSED LOCATIONS. CONDUIT MINIMUM 3/4".
- 4 RACEWAYS SHALL NOT BE RUN ON THE EXTERIOR OF BUILDING OR EXPOSED IN FINISHED USER/PUBLIC AREAS.
- 5 ALL WALLS AND PENETRATIONS SHALL BE REPAIRED AND SEALED, SEE ARCHITECTURAL FOR WALL CONSTRUCTION.
- ALL WIRE SIZES SHOWN ARE FOR COPPER, UNLESS OTHERWISE NOTED. WIRES #10 OR LESS SHALL BE SOLID.
- RECEPTACLE AND SWITCH COVER PLATES SHALL BE STAINLESS STEEL, DEVICES SHALL BE GRAY.
- 8 ALL SPARE BREAKERS SHALL BE TURNED OFF AND LABELED "SPARE" ON DIRECTORY CARD.
- 9 PROVIDE ALL CONDUIT AND WIRE TERMINATIONS TO EQUIPMENT.
- 10 THE ENGINEER HAS ATTEMPTED TO PROVIDE A COMPLETE DESIGN, COMPLIANT WITH ALL CODES. THE CONTRACTOR IS STILL RESPONSIBLE FOR MAKING MINOR ADJUSTMENTS TO MEET CODES AND THE DESIGN INTENT.

	GENERAL ELECTRICAL LEGEND				
SYMBOL	DESCRIPTION				
	NEW EQUIPMENT				
	EXISTING EQUIPMENT				
	1 HOUR FIRE RATED WALL				
	2 HOUR FIRE RATED WALL				
	4 HOUR FIRE RATED WALL				
	TYPICAL LIGHT FIXTURES LETTER INDICATES TYPE				
100 	DISCONNECT SWITCH - AMP RATING/NO. OF POLES/FUSE SIZE INDICATED				
60 _{3R}	NON-FUSIBLE DISCONNECT SWITCH, 60 AMP RATED, HP RATED FOR MOTORS NEMA ENCLOSURE RATING(3R) AS SHOWN. 3R: RAIN TIGHT.				
e	ELECTRICAL POWER SUPPLY CONNECTION TO EQUIPMENT - EQUIPMENT TAG OR DESIGNATION INDICATED. COORDINATE LOCATION AND CONNECTION DETAILS WITH EQUIPMENT PROVIDER.				
	SPECIAL PURPOSE RECEPTACLE, MATCH RECEPTACLE TO EQUIPMENT PLUG. MAY ALSO BE HARDWIRED JUNCTION BOX OR TOGGLE DISCONNECT SWITCH, COORDINATE WITH EQUIPMENT.				
	DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20R				
G	GFCI DUPLEX RECEPTACLE				
w	WEATHER TIGHT DUPLEX RECEPTACLE				
S	20A, 120/277VAC SINGLE POLE SNAP SWITCH				
s ₂	20A, 120/277VAC DOUBLE POLE SNAP SWITCH				
s ₃	20A, 120/277VAC THREE WAY SNAP SWITCH				
s _M	MOTOR STARTER TOGGLE SWITCH, #POLE TO MATCH # CIRCUITS				
S _{MW}	NEMA 4 WET RATED MOTOR STARTER TOGGLE SWITCH				
J	JUNCTION BOX				
SA	SURGE ARRESTER, TYPE I				
•	UNDERGROUND CONDUIT				
	SWITCHED CIRCUIT				
/	UNSWITCHED CIRCUIT				
	HOMERUN CIRCUIT TO PANEL - CIRCUIT INDICATED				



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E201
ELECTRICAL GENERAL

PERMIT SET