2023 SUMMER HVAC IMPROVEMENTS AT HALE HIGH SCHOOL

10/12/2022

Addendum # 1

This addendum is hereby a part of those documents and contracts, the same as if bound therein and it shall supersede anything contained in the original bid manual with which it might conflict.

- Please see attached drawings.

The end

LIGHT FIXTURE SCHEDULE (REVISE FOR PROJECT)

FIXTURE/TYPE	MANUFACTURER CATALOG NUMBER	VOLTS / WATTS	LAMP TYPE	MOUNTING	FIXTURE NOTES
A	METALUX: 24FP4750C LSI: SFP24-LED-50-UE-DIM-50 SIGNIFY: 2FPZ-43L-850-4-DS-UNV-DIM	120 41	LED 5000K > 80CRI	RECESSED	2'x4' LED EDGE-LIT FLAT PANEL
AW	METALUX: ENW-24-4-LD2-70-50-CA125-120-EDC-1	120 75	LED 5000K < 80CRI	RECESSED	2'x4' FLAT PANEL LED WET LOCATION TROFFER
B	METALUX: 4ST2L4050R SIGNIFY: FSS-4-55L-850-UNV-DIM WILLIAMS: 75R-4-L50-80-50-DRV-UNV LSI: SDL 4 LED HO CW UE	120 45	LED 5000K	SURFACE/SUSPENDED	FIXTURE SHALL BE SURFACED MOUNTED OR SUSPENDED BY JACK-CHAIN FROM BUILDING STRUCTURE.
C	METALUX: UHB18UNVL850CDU SIGNIFY: HCY218CSTUN3DIM ALBEO: ARC021588LQVSTAQB	120 147	LED 5000K/18,000 LUMENS	RECESSED	12" ROUND LED HIGH-BAY. GYMNASIUM FIXTURE PROVIDED WITH WIRE GUARDS
EM	LITHONIA: ELM2 LED HO SD SURE LITES: SEL25R16SD DUAL LITE: EV4I	120 –	LED	CEILING MOUNTED	EMERGENCY EGRESS LIGHT PROVIDE WEATHER-PROOF DUAL REMOTE HEAD AT EXITS SHOWN ON DRAWINGS ATTACH TO FIXTURES SPECIFIED
RH	LITHONIA: ELA LED T QWP L0309 SD SURE LITES: SRP25DGY DUAL LITE: EVO-DW	120 8	LED	CEILING/SURFACE MOUNTED	WEATHER-PROOF/VANDEL RESISTANT REMOTE HEAD UNIVERSAL MOUNT AT EXTERIOR OF BUILDING. INTERCONNECT TO EXIT LIGHT 90-MIN EMERGENCY BATTERY BACKUP INDICATED ON DRAWINGS.
X	LITHONIA: LQM S W 3 R 120/277 EL N SD SURE LITES: LPXR5SD DUAL LITE: EVCURWD4I-0	120 5	LED	CEILING, WALL, OR END MOUNTED	SINGLE OR DOUBLE FACE PER DRAWING. (90-MIN. BATTERY BACKUP)
XH	LITHONIA: LHQM S W 3 R HO SD SURE LITES: LPXC25R3SD DUAL LITE: EVCURWD4I	120 8	LED	CEILING, WALL, OR END MOUNTED	SINGLE OR DOUBLE FACE PER DRAWING. (90-MIN. BATTERY BACKUP)

GENERAL NOTES:

A) CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ACCESSORIES REQUIRED FOR COMPLETE FIXTURE PACKAGE SHOWN ON SCHEDULES, DETAILS, PLANS, AND SPECIFICATIONS.
B) NO SUBSTITUTIONS ACCEPTED.
C) CONTRACTOR SHALL PROVIDE DIMMING DRIVERS IN LED FIXTURES REQUIRED FOR CONTROL SYSTEM COMPATIBILITY.
D) PROVIDE WIRE GUARDS IN GYMNASIUM LOCATIONS.
E) PROVIDE GYPSUM BOARD CEILING FRAMING KIT IN AREAS WITH HARD CEILING.

UTILITY PEAK LOAD

UTILITY PEAK LOAD	WATTS
PEAK DEMAND LOAD FROM -- STARTING DATE: 1/01/00 TO: 12/31/01 (PEAK: X/xx/xx) INCLUDES ACTUAL KW . NEC ART. 220-87	XX,XXX X 1.25% XXX,XXX
ELECTRICAL LOADS REMOVED	-
APPLIANCES 4,610 x 0.65	--
RECEPTACLES	--
LIGHTING 6,066 x 1.25	--
HVAC	--
TOTAL ELECTRICAL LOADS REMOVED	--
ELECTRICAL LOADS ADDED	+
APPLIANCES 7,540 x 0.65	--
RECEPTACLES	--
LIGHTING 5,157 x 1.25	--
HVAC	--
TOTAL ELECTRICAL LOADS ADDED	--
NEW ESTIMATED DEMAND LOAD	= ---

NOTE: THE DATA IN THE PANELBOARD SCHEDULES AND THE PEAK LOAD TABLE REPRESENT THE BEST ESTIMATES BASED UPON THE AVAILABLE INFORMATION.

DEVICE SUBSCRIPT (REVISE FOR PROJECT)

'o'	LOWER CASE LETTER INDICATES DEVICE CONTROL ARRANGEMENT	LV	LOW VOLTAGE
AFF	ABOVE FINISHED FLOOR	LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
AFG	ABOVE FINISHED GRADE	LGT	LIGHTING
A/C	HVAC	M	FRACTIONAL HP RATED SWITCH
APL	APPLIANCE	MTR	MOTOR
AF	AMP FUSE	NL	NIGHT LIGHT
AT	AMP TRIP	OCPD	OVER-CURRENT PROTECTION DEVICE
BMS	BUILDING MANAGEMENT SYSTEM	OHE	OVERHEAD ELECTRIC
BTC	BRANCH TO CONNECTION	OHT	OVERHEAD TELEPHONE
C	COMMUNICATION	(R)	REMOVE (260450)
CKT	CIRCUIT	(RR)	REMOVE AND REINSTALL (260450)
CT	CURRENT TRANSFORMER	(RS)	REMOVE AND SALVAGE (260450)
CTL	CONTROL	RCP	RECEPTACLE
D	DATA OUTLET	RI	ROUGH-IN ONLY
(E)	EXISTING TO REMAIN (260450)	S.E.R.	SERVICE ENTRANCE RATED
(ER)	EXISTING RELOCATED	SPD	SURGE PROTECTION DEVICE
EM	EMERGENCY CIRCUIT	S.T.	SHUNT-TRIP BREAKER
EPO	EMERGENCY POWER OFF	SW	SPLIT WIRED RECEPTACLE FOR HALF SWITCHING
EQ	EQUAL	U.C.	UNDER COUNTER
EWC	ELECTRIC WATER COOLER	UGE	UNDERGROUND ELECTRIC
FACP	FIRE ALARM CONTROL PANEL	UGT	UNDERGROUND TELEPHONE
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE	UGF	UNDERGROUND FIBER
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED	UNO	UNLESS NOTED OTHERWISE
GFP	FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED	WP	WEATHERPROOF WHILE IN USE
JB	JUNCTION BOX	WPS	WEATHERPROOF SPRING COVER DEVICE
K	KEY OPERATED		

ELECTRICAL GRAPHIC SYMBOL LEGEND (REVISE FOR PROJECT)

WALL MOUNTED DEVICES

- WALL MOUNTED, SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- SURFACE MOUNTED, SPECIAL RECEPTACLE
- DUPLEX RECEPTACLE W/GFCI
- QUAD RECEPTACLE W/GFCI
- J JUNCTION BOX
- PLUGMOLD

FIRE ALARM DEVICES

- DD HVAC DUCT SMOKE DETECTOR
- HEAT DETECTOR
- SMOKE DETECTOR
- WALL MOUNTED, STROBE
- WALL MOUNTED, HORN/STROBE
- CEILING MOUNTED, STROBE
- CEILING MOUNTED, HORN/STROBE

CONTROL DEVICES

- S HVAC T-STAT/SENSOR

LOW-VOLTAGE DEVICES

- SP CLASSROOM INTERCOM SPEAKERS
- DIGITAL OUTLET – CAT 6
- N INTERCOM BUTTON

SECURITY/ACCESS CONTROL LEGEND

- S1 CLASSROOM MOTION SENSORS
- S2 CORRIDOR MOTION SENSORS
- S3 SUPCO ALARM SENSORS
- C CEILING MOUNTED, SURVEILLANCE CAMERA
- KP KEY PAD: NAPCO RPICAEZ TOUCH-PAD
- 2N 2N HELIOS IP FORCE

RACEWAYS

- UNDERGROUND CONDUIT
- CONCEALED CONDUIT
- EXPOSED CONDUIT
- HOMERUN
- INTERCONNECTED HOMERUN CKT.

SWITCHES/MOTORS/TRANSFORMERS/ETC

- HEAVY-DUTY FUSED DISCONNECT SWITCH
- HEAVY-DUTY COMBINATION MOTOR STARTER/DISCONNECT

ELECTRICAL SCOPE OF WORK:

WORK INCLUDED: PROVIDE ELECTRICAL SYSTEMS DESIGN AND ENGINEER DRAWINGS SIGNED AND SEALED BY OKLAHOMA ELECTRICAL PROFESSIONAL ENGINEER. PROVIDE INSTALLATION AND MODIFICATIONS AS OUTLINED HEREIN AND REQUIRED FOR A COMPLETE AND PROPER WORKING SYSTEM FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT INSTALLED.

ENGINEER SHALL REFER TO THE TPS PROJECT MANUAL FOR THE FULL LISTED SCOPE AND GUIDELINE SPECIFICATIONS FOR ADDITIONAL WORK NOT SHOWN IN DRAWINGS.

ENGINEER SHALL BE RESPONSIBLE FOR ADDITIONAL SPECIFICATION REQUIRED FOR THE PROJECT. COORDINATE RACEWAY PATHWAYS AND PHASE OF ELECTRICAL CONSTRUCTION WITH OWNERS REPRESENTATIVE PRIOR TO FINAL SIGNED/SEALED CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

ENGINEER SHALL PROVIDE SITE INVESTIGATION TO DETERMINE THE MAIN DISTRIBUTION SWITCHBOARDS AVAILABLE TO PROVIDE POWER FOR THE INDICATED MECHANICAL EQUIPMENT AND COORDINATE WITH AEP/PSO WHERE NEW POWER SYSTEMS ARE REQUIRED TO BE SERVED. FIELD VERIFY EXISTING CONDITIONS DURING DEMOLITION THAT COULD CHANGE THE SCOPE OF WORK AND PREPARE ADDITIONAL DRAWINGS AS REQUIRED.

ENGINEER SHALL COORDINATE WITH TPS REPRESENTATIVES FOR DATA, BUILDING MANAGEMENT SYSTEM CONTROLS, SECURITY ALARM SYSTEM AND FIRE ALARM SYSTEMS THAT REQUIRE ADDITIONAL EXPANSION AND POWER SUPPLIES TO COMPLETE THE PROJECT. PROVIDE DIRECTIVES ON DRAWINGS IN ACCORDANCE WITH NFPA 70, 72, 101 AND IBC.

A. REMOVE EXISTING DISTRIBUTION SYSTEM TO THE INDICATED CLASSROOM HVAC UNITS. REMOVE CONDUCTORS AND CAP EXISTING FEEDER CONDUIT IN ACCESSIBLE CEILING CAVITY BELOW REMOVED UNITS. REMOVE EXISTING SERVICE CONDUCTORS AND DISCONNECTS TO REPLACED ROOF TOP UNITS (RTU) AND PROVIDE NEW AS INDICATED IN MECHANICAL DRAWINGS.

B. PROVIDE ALL OVER-CURRENT PROTECTIVE DEVICES REQUIRED TO FEED ALL MECHANICAL UNITS, EXHAUST FANS AND MISCELLANEOUS EQUIPMENT IN FINAL MECHANICAL DRAWINGS.

C. PROVIDE COMPLETED CIRCUIT INDEX FOR ALL NEW AND EXISTING SWITCHBOARDS, DISTRIBUTION PANELS, AND BRANCH CIRCUIT PANELBOARDS. LOCATE INDEX INSIDE EQUIPMENT DOOR.

D. PROVIDE NEW BRANCH FEEDERS TO NEW AND REPLACED HVAC SYSTEMS.

E. REMOVE ALL FEEDERS TO ABANDONED EQUIPMENT, TO BE REMOVED IN DEMOLITION. ELECTRICAL LEGENDS TO INDICATE BREAKERS OR REVISED SECTIONS ARE 'SPARE'.

F. DOCUMENT AND PUBLISH DEMOLITION DRAWING OF ACTUAL EXISTING CONDITIONS INDICATING DEVICES AND LOCATIONS OF FIRE ALARM CONTROL PANEL, FIRE ALARM ANNUNCIATOR PANEL AND SECURITY CONTROL PANEL AND DEVICES.

G. PROVIDE NEW FIRE ALARM SYSTEM INITIATING AND ANNUNCIATION DEVICES AND CABLING BACK TO EXISTING FIRE ALARM CONTROL PANEL. INDICATE HOW HVAC DUCT DETECTORS TO COMMUNICATE WITH FACP. PROVIDE COMBINATION SMOKE/FIRE DAMPERS AND DUCT DETECTORS WHERE REQUIRED. SUBMIT FINAL DRAWINGS TO CITY FIRE MARSHAL FOR APPROVAL PRIOR TO INSTALLATION.

H. IDENTIFY AND DIRECT TO REINSTALL ALL EXISTING SECURITY SYSTEM DEVICES AND CABLING. INDICATE NEW ALARM SWITCH FOR EACH NEW HVAC UNIT AND ROUTE CABLING BACK TO MAIN SECURITY CONTROL PANEL LOCATED IN EXISTING MDF CLOSET. COORDINATE SENSORS FOR HVAC SYSTEM WITH DIVISION 23 CONTRACTOR.

I. ROUTE CONCEALED 3/4" EMT RACEWAY FOR NEW BUILDING MANAGEMENT SYSTEM CABLING FROM EXISTING THERMOSTAT LOCATIONS TO NEW UNITS AS DESCRIBED WITHIN THESE ILLUSTRATED DRAWINGS. COORDINATE WITH TPS CONTROLS CONTRACTOR FOR REQUIRED RACEWAY SYSTEMS AND SUPPORTS. SURFACE MOUNTED RACEWAY AND DEVICES SHALL BE PROVIDE AS INDICATED IN STANDARD TPS DETAILS.

J. REMOVE ALL SURFACE MOUNTED RACEWAYS IN CLASSROOMS SERVING POWER, DATA, T-STATS AND OTHERS COMPLETELY FOR THE WALLS TO BE PAINTED. REMOVE DATA CABLING BACK TO MDF/IDF CLOSET. ROUTE (3) NEW DATA CABLING TO EACH CLASSROOM FOR INTERACTIVE DISPLAY, TEACHERS DESK AND CEILING WIFI ACCESS POINTS. ROUTE NEW SURFACE MOUNTED RACEWAYS AND OUTLETS REQUIRED PER TPS STANDARD RACEWAYS AND BACKBOXES. DO NOT USE EMT CONDUIT.

K. REMOVE AND REINSTALL ALL CEILING MOUNTED LOW-VOLTAGE DEVICES IN CLASSROOMS AND CORRIDORS WHERE CEILING GRID IS REMOVED FOR NEW HVAC DUCTWORK. COORDINATE WITH TPS LOW-VOLTAGE REPRESENTATIVE MATT REED PRIOR TO WORK.

L. INTERIOR RESIDENTIAL PANELBOARDS OR 25-YEARS OLD PANELS TO BE REPLACED WITH NEW COMMERCIAL LISTED AND RATED PANELBOARD INTERIORS AND BREAKERS. FIELD TRACE EXISTING BRANCH CIRCUITS AND PROVIDE NEW PANEL LABELS AND INDEX AT PANEL DOORS. PROVIDE PANEL LABEL PER NEW NAMING CONVENTION INDICATED WITHIN THESE DRAWINGS.

M. MODIFY EXISTING EXTERIOR SWITCHBOARD TO ACCEPT NEW WORK. PROVIDE BUSS EXTENSIONS AND NEW SECTION TO ACCOMMODATE NEW PANELS TO SERVE HVAC SYSTEM.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0564/FAX (918) 384-3189 AEGINFO@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

ELECTRICAL GENERAL NOTES AND SCHEDULES

DATE: 10.06.2022

SHEET NO.

E001

Z:\2022\TPS\Hale High School RFP\Dwg\E001.dwg, 10/11/2022 4:06:37 PM, DawnSantee

1 GROUND LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS.

2. PROVIDE NEW LIGHTING FIXTURES IN AREAS OF RENOVATIONS.

3. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

4. PROVIDE NEW LIGHT FIXTURE IN CORRIDORS. CONTROL LIGHTING WITH POWER PACK AND SENSOR PER FINAL ENGINEERED DRAWINGS. DESIGN CRITERIA: 20-FOOT CANDLES, AVERAGE, AT FLOOR. PROVIDE 90-MINUTE CEILING MOUNTED EMERGENCY LIGHTING UNITS SPACED FOR 1.0 FOOT CANDLE, AVERAGE, AT FLOOR. PROVIDE NEW EXIT LIGHTS WITH 90-MINUTE BATTERY.

5. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

6. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS.

7. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

8. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

9. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

10. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILIARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

11. REMOVE/REINSTALL CORD REELS.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@AEG-TULSA.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

GROUND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E101

Z:\2022\TPS\Hale High School-RFP\Dwgs\E101.dwg, 10/11/2022 4:06:41 PM, DawnSantee

KEYNOTES: (X)

1. PROVIDE NEW HIGH-BAY LIGHTING PER TPS STANDARD HIGH-BAY FIXTURE AS SCHEDULED.

2. DESIGN EMERGENCY LIGHTING FOR MEANS OF EGRESS PER NFPA 101.

1 GROUND LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
29026
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

GROUND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E102

Z:\2022\TPS\Hale High School RFP\Dwgs\E102.dwg, 10/11/2022 4:06:43 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

6. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

1 FIRST LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E103

Z:\2022\TPS\Hale High School RFP\Dwgs\E103.dwg, 10/11/2022 4:06:47 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

6. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

7. PROVIDE 25'-0" CORD REELS. SUPPORT REELS FLUSH WITH CEILING GRID TO BUILDING SUPER-STRUCTURE PER MANUFACTURER'S SPECIFICATIONS.

8. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

1 FIRST LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
PROFESSIONAL ENGINEERING SERVICES
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG-LLC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

AREA OF WORK

KEY PLAN

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E104

Z:\2022\TPS\Hale High School RFP\Dwgs\E104.dwg, 10/11/2022 4:06:50 PM, DawnSantee

1 FIRST LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. PROVIDE NEW LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

5. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

6. PROVIDE NEW LED LIGHTING.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEGMEP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E105

P:\2022\TPS\Hale High School-RFP\Dwgs\E105.dwg, 10/11/2022 4:06:54 PM, DawnSantee

1 FIRST LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

6. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

7. PROVIDE NEMA 3R HEAVY-DUTY RATED FUSED DISCONNECT, FUSED PER UNIT MANUFACTURER'S SPECIFICATIONS. INTERCONNECT ASSOCIATED INTERIOR CASSETTE WITH 120V POWER.

8. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

9. RELOCATE EXISTING KILN AND ELECTRICAL TO NEW LOCATION.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINC@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E106

Z:\2022\TPS\Hale High School RFP\Dwgs\E106.dwg, 10/11/2022 4:06:57 PM, DawnSantee

KEYNOTES: (X)

1.

1 FIRST LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
29026
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E107

P:\2022\TPS\Hale High School RFP\Dwgs\E107.dwg, 10/11/2022 4:07:00 PM, DawnSantee

1 SECOND LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

6. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG-LLC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

AREA OF WORK

KEY PLAN

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E201

Z:\2022\TPS\Hale High School RFP\Dwg\E201.dwg, 10/11/2022 4:07:04 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

5. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

2 SECOND LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"
NORTH

1 SECOND LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"
NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@NET.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL ELECTRICAL PLANS

DATE: 10.06.2022

SHEET NO.

E202

P:\2022\TPS\Hale High School-BEP\Dwgs\E202.dwg, 10/11/2022 4:07:09 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

6. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

1 SECOND LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E203

Z:\2022\TPS\Hale High School RFP\Dwgs\E203.dwg, 10/11/2022 4:07:16 PM, DawnSantee

1 SECOND LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

6. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

7. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E204

Z:\2022\TPS\Hale High School-RFP\Dwgs\E204.dwg, 10/11/2022 4:07:20 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS.

2. PROVIDE NEW LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS.

1 SECOND LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGRAD@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E205

2022\TPS\Hale High School-RFP\Dwg\E205.dwg, 10/11/2022 4:07:24 PM, DawnSantee

1 SECOND LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

6. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG-TULSA.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E206

Z:\2022\TPS\Hale High School RFP\Dwgs\E206.dwg, 10/11/2022 4:07:28 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

1 SECOND LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E207

Z:\2022\TPS\Hale High School RFP\Dwgs\E207.dwg, 10/11/2022 4:07:32 PM, DawnSantee

1 SECOND LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS.

2. PROVIDE NEW LIGHTING FIXTURES SCHEDULED AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS.

4. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

5. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E208

Z:\2022\TPS\Hale High School-RFP\Dwgs\E208.dwg, 10/11/2022 4:07:37 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

6. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

1 THIRD LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E301

Z:\2022\TPS\Hale High School RFP\Dwgs\E301.dwg, 10/11/2022 4:07:41 PM, DawnSantee

KEYNOTES: (X)

REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

6. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

1 THIRD LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG-LLC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

AREA OF WORK
KEY PLAN

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E302

Z:\2022\TPS\Hale High School RFP\Dwg\E302.dwg, 10/11/2022 4:07:44 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

1 THIRD LEVEL PARTIAL ELECTRICAL PLAN

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEGINFO.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL ELECTRICAL PLANS

DATE: 10.06.2022

SHEET NO.

E303

Z:\2022\TPS\Hale High School RFP\Dwgs\E303.dwg, 10/11/2022 4:07:50 PM, DawnSantee

1 THIRD LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS. RE: 1/E602 AND 2/E602.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS. RE: 3/E602.

4. PROVIDE NEW CORRIDOR LED FLAT-PANEL LIGHTING WITH STEINEL OCCUPANCY SENSORS PER TPS LIGHTING STANDARDS. RE: 4/E602.

5. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E304

Z:\2022\TPS\Hale High School RFP\Dwgs\E304.dwg, 10/11/2022 4:07:52 PM, DawnSantee

KEYNOTES: (X)

1. REINSTALL EXISTING SPEAKERS, ACCESS POINTS, SECURITY SENSORS, SURVEILLANCE CAMERAS AND FIRE ALARM CEILING GRID DEVICES AND APPLIANCES TO ORIGINAL LOCATIONS.

2. REINSTALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS.

3. PROVIDE RACEWAY AND CABLING SUPPORT REQUIRED BY TPS CONTROLS CONTRACTOR'S FINAL ENGINEERED DRAWINGS.

4. ENERGIZE ELECTRICAL HEATERS FROM NEAREST SOURCE. PROVIDE DISCONNECTING MEANS AT UNIT AND SIZE BRANCH CIRCUIT PER FINAL ENGINEERED MECHANICAL DRAWINGS.

5. ENERGIZE FAN COIL FROM CORRESPONDING HPU ON ROOF. FINAL LOCATION PER FINAL ENGINEERED MECHANICAL DRAWINGS.

6. REPLACE EXISTING PANEL INTERIORS WITH NEW COMMERCIAL GRADE AND NEW BREAKERS. PROVIDE NEW LABEL AND PANEL INDEX.

1 THIRD LEVEL PARTIAL ELECTRICAL PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@NET.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E305

Z:\2022\TPS\Hale High School RFP\Dwg\E305.dwg, 10/11/2022 4:07:55 PM, DawnSantee

KEYNOTES: (X)

1.

1 SECOND LEVEL ENLARGED KITCHEN LIGHTING PLAN-DEMO

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

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
29262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL ENLARGED KITCHEN LIGHTING PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

ED401

Z:\2022\TPS\Hale High School RFP\Dwg\ED401.dwg, 10/11/2022 4:07:58 PM, DawnSantee

KEYNOTES: (X)

1.

1 SECOND LEVEL ENLARGED KITCHEN ELECTRICAL PLAN

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

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
29029
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL ENLARGED KITCHEN ELECTRICAL PLAN

DATE: 10.06.2022

SHEET NO.

E401

Z:\2022\TPS\Hale High School RFP\Dwg\E401.dwg, 10/11/2022 4:08:02 PM, DawnSantee

HVAC EQUIPMENT FEEDER SCHEDULE

MARK	VOLTAGE/PHASE	AMPS	LENGTH (FEET)	FEEDER	% VOLTAGE DROP
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
HPU-	208/1/60	-	-	-	-
HPU-	208/1/60	-	-	-	-

GENERAL NOTES:
1.CONTRACTOR SHALL MAKE ALL HARD-WIRED CONNECTIONS TO EQUIPMENT INCLUDING PROVIDING PIGTAIL AND PLUG CONNECTIONS WHERE REQUIRED.
2.FOR ALL EQUIPMENTS THAT ARE SCHEDULED BUT NOT SHOWN ON PLANS, CONTRACTOR TO VERIFY NAME PLATE RATING, LOCATION AND TO PROVIDE POWER AS REQUIRED BY N.E.C.
3. NO MORE THAN (6) CURRENT CARRYING CONDUCTORS PER RACEWAY.

NOTE:
A. DESIGN BRANCH CIRCUITS TO ROOF TOP UNITS AT A MAXIMUM 3% VOLTAGE DROP FROM ROOF MOUNTED PANEL USING COPPER CONDUCTORS.
B. DESIGN PANEL FEEDER WITH MAXIMUM 2% VOLTAGE-DROP COPPER CONDUCTORS.
C. PROVIDE EXPANSION FITTINGS IN ALL ELECTRICAL CONDUITS AT ROOF EXPANSION JOINTS. (TYPICAL).

KEYNOTES: (X)

1. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

2. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

3. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

4. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILIARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

5. MOUNT NEMA 3R PANEL ANCHORED TO ROOF PER ORIGINAL ROOF MANUFACTURER SPECIFICATIONS AND WARRANTY. PROVIDE PITCH-POCKETS TO PENETRATE ROOF TO SUPPORT RACK SYSTEM. SUPPORT TO SUPER-STRUCTURE BELOW.

6. MOUNT NEMA 3R PANEL ON GALVANIZED UNISTRUT RACK SUPPORTED TO SIDE OF EXTERIOR BUILDING WALL.

7. 208V/1PH SERVED FROM EXISTING INTERIOR PANEL BELOW. ROUTE 120V 'HPU' CONTROL CABLE TO INTERIOR FAN COIL UNIT LOCATIONS PER MECHANICAL DRAWINGS.

1 PARTIAL ELECTRICAL ROOF PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-2188 AEGINFO@AEGINFO.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL ELECTRICAL ROOF PLAN

DATE: 10.06.2022

SHEET NO.

E501

2022\TPS\Hale High School-RFP\Dwgs\E501.dwg, 10/11/2022 4:08:17 PM, DawnSantee

2 PARTIAL ELECTRICAL ROOF PLAN

Scale: 1/8" = 1'-0"

NORTH

HVAC EQUIPMENT FEEDER SCHEDULE

MARK	VOLTAGE/PHASE	AMPS	LENGTH (FEET)	FEEDER	% VOLTAGE DROP
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
HPU-	208/1/60	-	-	-	-
HPU-	208/1/60	-	-	-	-

GENERAL NOTES:
1.CONTRACTOR SHALL MAKE ALL HARD-WIRED CONNECTIONS TO EQUIPMENT INCLUDING PROVIDING PIGTAIL AND PLUG CONNECTIONS WHERE REQUIRED.
2.FOR ALL EQUIPMENTS THAT ARE SCHEDULED BUT NOT SHOWN ON PLANS, CONTRACTOR TO VERIFY NAME PLATE RATING, LOCATION AND TO PROVIDE POWER AS REQUIRED BY N.E.C.
3. NO MORE THAN (6) CURRENT CARRYING CONDUCTORS PER RACEWAY.

NOTE:

A. DESIGN BRANCH CIRCUITS TO ROOF TOP UNITS AT A MAXIMUM 3% VOLTAGE DROP FROM ROOF MOUNTED PANEL USING COPPER CONDUCTORS.
B. DESIGN PANEL FEEDER WITH MAXIMUM 2% VOLTAGE-DROP COPPER CONDUCTORS.
C. PROVIDE EXPANSION FITTINGS IN ALL ELECTRICAL CONDUITS AT ROOF EXPANSION JOINTS. (TYPICAL).

KEYNOTES: (X)

1. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

2. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

3. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

4. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

5. MOUNT NEMA 3R PANEL ANCHORED TO ROOF PER ORIGINAL ROOF MANUFACTURER SPECIFICATIONS AND WARRANTY. PROVIDE PITCH-POCKETS TO PENETRATE ROOF TO SUPPORT RACK SYSTEM. SUPPORT TO SUPER-STRUCTURE BELOW.

6. MOUNT NEMA 3R PANEL ON GALVANIZED UNISTRUT RACK SUPPORTED TO SIDE OF EXTERIOR BUILDING WALL.

1 PARTIAL ELECTRICAL ROOF PLAN

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEG@AEGMEP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL ELECTRICAL ROOF PLAN

DATE: 10.06.2022

SHEET NO.

E502

Z:\2022\TPS\Hale High School RFP\Dwgs\E502.dwg, 10/11/2022 4:08:13 PM, DawnSantee

NOTE:

A. DESIGN BRANCH CIRCUITS TO ROOF TOP UNITS AT A MAXIMUM 3% VOLTAGE DROP FROM ROOF MOUNTED PANEL USING COPPER CONDUCTORS.
B. DESIGN PANEL FEEDER WITH MAXIMUM 2% VOLTAGE-DROP COPPER CONDUCTORS.
C. PROVIDE EXPANSION FITTINGS IN ALL ELECTRICAL CONDUITS AT ROOF EXPANSION JOINTS. (TYPICAL).

HVAC EQUIPMENT FEEDER SCHEDULE

MARK	VOLTAGE/PHASE	AMPS	LENGTH (FEET)	FEEDER	% VOLTAGE DROP
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
HPU-	208/1/60	-	-	-	-
HPU-	208/1/60	-	-	-	-

GENERAL NOTES:
1.CONTRACTOR SHALL MAKE ALL HARD-WIRED CONNECTIONS TO EQUIPMENT INCLUDING PROVIDING PIGTAIL AND PLUG CONNECTIONS WHERE REQUIRED.
2.FOR ALL EQUIPMENTS THAT ARE SCHEDULED BUT NOT SHOWN ON PLANS, CONTRACTOR TO VERIFY NAME PLATE RATING, LOCATION AND TO PROVIDE POWER AS REQUIRED BY N.E.C.
3. NO MORE THAN (6) CURRENT CARRYING CONDUCTORS PER RACEWAY.

KEYNOTES: (X)

1. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

2. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

3. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

4. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

5. MOUNT NEMA 3R PANEL ANCHORED TO ROOF PER ORIGINAL ROOF MANUFACTURER SPECIFICATIONS AND WARRANTY. PROVIDE PITCH-POCKETS TO PENETRATE ROOF TO SUPPORT RACK SYSTEM. SUPPORT TO SUPER-STRUCTURE BELOW.

6. MOUNT NEMA 3R PANEL ON GALVANIZED UNISTRUT RACK SUPPORTED TO SIDE OF EXTERIOR BUILDING WALL.

7. ROUTE 120V 'HPU' CONTROL CABLE TO INTERIOR FAN COIL UNIT LOCATIONS PER DRAWINGS.

8. REUSE EXISTING RACEWAYS THAT COMPLY WITH NEW FEEDER DESIGN SIZES. PROVIDE SUPPORTS 10'-0" ALONG PATH.

9. REPLACE EXISTING 400A PANEL WITH NEW 600A/3PH PANEL AND ROUTE NEW FEEDERS FROM SWITCHBOARD 'MDP' WITH MAXIMUM 2% VOLTAGE DROP.

1 PARTIAL ELECTRICAL ROOF PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEGMEP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL ELECTRICAL ROOF PLAN

DATE: 10.06.2022

SHEET NO.

E503

Z:\2022\TPS\Hale High School RFP\Dwgs\E503.dwg, 10/11/2022 4:08:19 PM, DawnSantee

NOTE:

A. DESIGN BRANCH CIRCUITS TO ROOF TOP UNITS AT A MAXIMUM 3% VOLTAGE DROP FROM ROOF MOUNTED PANEL USING COPPER CONDUCTORS.
B. DESIGN PANEL FEEDER WITH MAXIMUM 2% VOLTAGE-DROP COPPER CONDUCTORS.
C. PROVIDE EXPANSION FITTINGS IN ALL ELECTRICAL CONDUITS AT ROOF EXPANSION JOINTS. (TYPICAL).

KEYNOTES: (X)

1. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

2. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

3. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

4. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

5. MOUNT NEMA 3R PANEL ANCHORED TO ROOF PER ORIGINAL ROOF MANUFACTURER SPECIFICATIONS AND WARRANTY. PROVIDE PITCH-POCKETS TO PENETRATE ROOF TO SUPPORT RACK SYSTEM. SUPPORT TO SUPER-STRUCTURE BELOW.

6. MOUNT NEMA 3R PANEL ON GALVANIZED UNISTRUT RACK SUPPORTED TO SIDE OF EXTERIOR BUILDING WALL.

7. 208V/1PH SERVED FROM EXISTING INTERIOR PANEL BELOW. ROUTE 120V 'HPU' CONTROL CABLE TO INTERIOR FAN COIL UNIT LOCATIONS PER MECHANICAL DRAWINGS.

8. REUSE EXISTING RACEWAYS THAT COMPLY WITH NEW FEEDER DESIGN SIZES. PROVIDE SUPPORTS 10'-0" ALONG PATH.

HVAC EQUIPMENT FEEDER SCHEDULE					
MARK	VOLTAGE/PHASE	AMPS	LENGTH (FEET)	FEEDER	% VOLTAGE DROP
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
HPU-	208/1/60	-	-	-	-
HPU-	208/1/60	-	-	-	-

GENERAL NOTES:
1.CONTRACTOR SHALL MAKE ALL HARD-WIRED CONNECTIONS TO EQUIPMENT INCLUDING PROVIDING PIGTAIL AND PLUG CONNECTIONS WHERE REQUIRED.
2.FOR ALL EQUIPMENTS THAT ARE SCHEDULED BUT NOT SHOWN ON PLANS, CONTRACTOR TO VERIFY NAME PLATE RATING, LOCATION AND TO PROVIDE POWER AS REQUIRED BY N.E.C.
3. NO MORE THAN (6) CURRENT CARRYING CONDUCTORS PER RACEWAY.

1 PARTIAL ELECTRICAL ROOF PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-2189 AEGRUN@COX.NET
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL ELECTRICAL ROOF PLAN

DATE: 10.06.2022

SHEET NO.

E504

Z:\2022\TPS\Hale High School RFP\Dwgs\E504.dwg, 10/11/2022 4:08:25 PM, DawnSantee

HVAC EQUIPMENT FEEDER SCHEDULE

MARK	VOLTAGE/PHASE	AMPS	LENGTH (FEET)	FEEDER	% VOLTAGE DROP
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
RTU–	480/3/60	–	–	–	–
HPU–	208/1/60	–	–	–	–
HPU–	208/1/60	–	–	–	–

GENERAL NOTES:
1.CONTRACTOR SHALL MAKE ALL HARD-WIRED CONNECTIONS TO EQUIPMENT INCLUDING PROVIDING PIGTAIL AND PLUG CONNECTIONS WHERE REQUIRED.
2.FOR ALL EQUIPMENTS THAT ARE SCHEDULED BUT NOT SHOWN ON PLANS, CONTRACTOR TO VERIFY NAME PLATE RATING, LOCATION AND TO PROVIDE POWER AS REQUIRED BY N.E.C.
3. NO MORE THAN (6) CURRENT CARRYING CONDUCTORS PER RACEWAY.

NOTE:
A. DESIGN BRANCH CIRCUITS TO ROOF TOP UNITS AT A MAXIMUM 3% VOLTAGE DROP FROM ROOF MOUNTED PANEL USING COPPER CONDUCTORS.
B. DESIGN PANEL FEEDER WITH MAXIMUM 2% VOLTAGE-DROP COPPER CONDUCTORS.
C. PROVIDE EXPANSION FITTINGS IN ALL ELECTRICAL CONDUITS AT ROOF EXPANSION JOINTS. (TYPICAL).

KEYNOTES: (X)

1. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

2. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

3. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

4. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

5. MOUNT NEMA 3R PANEL ANCHORED TO ROOF PER ORIGINAL ROOF MANUFACTURER SPECIFICATIONS AND WARRANTY. PROVIDE PITCH-POCKETS TO PENETRATE ROOF TO SUPPORT RACK SYSTEM. SUPPORT TO SUPER-STRUCTURE BELOW.

6. MOUNT NEMA 3R PANEL ON GALVANIZED UNISTRUT RACK SUPPORTED TO SIDE OF EXTERIOR BUILDING WALL.

7. ROUTE 120V 'HPU' CONTROL CABLE TO INTERIOR FAN COIL UNIT LOCATIONS PER DRAWINGS.

8. REUSE EXISTING RACEWAYS THAT COMPLY WITH NEW FEEDER DESIGN SIZES. PROVIDE SUPPORTS 10'-0" ALONG PATH.

1 PARTIAL ELECTRICAL ROOF PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@AEGMEP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL ELECTRICAL ROOF PLAN

DATE: 10.06.2022

SHEET NO.

E505

Z:\2022\TPS\Hale High School RFP\Dwgs\E505.dwg, 10/11/2022 4:08:29 PM, DawnSantee

NOTE:

A. DESIGN BRANCH CIRCUITS TO ROOF TOP UNITS AT A MAXIMUM 3% VOLTAGE DROP FROM ROOF MOUNTED PANEL USING COPPER CONDUCTORS.
B. DESIGN PANEL FEEDER WITH MAXIMUM 2% VOLTAGE-DROP COPPER CONDUCTORS.
C. PROVIDE EXPANSION FITTINGS IN ALL ELECTRICAL CONDUITS AT ROOF EXPANSION JOINTS. (TYPICAL).

KEYNOTES: (X)

1. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

2. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

3. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

4. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

5. MOUNT NEMA 3R PANEL ANCHORED TO ROOF PER ORIGINAL ROOF MANUFACTURER SPECIFICATIONS AND WARRANTY. PROVIDE PITCH-POCKETS TO PENETRATE ROOF TO SUPPORT RACK SYSTEM. SUPPORT TO SUPER-STRUCTURE BELOW.

6. MOUNT NEMA 3R PANEL ON GALVANIZED UNISTRUT RACK SUPPORTED TO SIDE OF EXTERIOR BUILDING WALL.

7. REPLACE EXISTING NEW PANEL AND ROUTE NEW FEEDERS FROM SWITCHBOARD 'MDP' WITH MAXIMUM 2% VOLTAGE-DROP.

8. REUSE EXISTING RACEWAYS THAT COMPLY WITH NEW FEEDER DESIGN SIZES. PROVIDE SUPPORTS 10'-0" ALONG PATH.

1 PARTIAL ELECTRICAL ROOF PLAN
Scale: 1/8" = 1'-0"

NORTH

HVAC EQUIPMENT FEEDER SCHEDULE

MARK	VOLTAGE/PHASE	AMPS	LENGTH (FEET)	FEEDER	% VOLTAGE DROP
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
HPU-	208/1/60	-	-	-	-
HPU-	208/1/60	-	-	-	-

GENERAL NOTES:
1.CONTRACTOR SHALL MAKE ALL HARD-WIRED CONNECTIONS TO EQUIPMENT INCLUDING PROVIDING PIGTAIL AND PLUG CONNECTIONS WHERE REQUIRED.
2.FOR ALL EQUIPMENTS THAT ARE SCHEDULED BUT NOT SHOWN ON PLANS, CONTRACTOR TO VERIFY NAME PLATE RATING, LOCATION AND TO PROVIDE POWER AS REQUIRED BY N.E.C.
3. NO MORE THAN (6) CURRENT CARRYING CONDUCTORS PER RACEWAY.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL ELECTRICAL ROOF PLAN

DATE: 10.06.2022

SHEET NO.

E506

Z:\2022\TPS\Hale High School RFP\Dwg\E506.dwg, 10/11/2022 4:08:32 PM, DawnSantee

NOTE:

A. DESIGN BRANCH CIRCUITS TO ROOF TOP UNITS AT A MAXIMUM 3% VOLTAGE DROP FROM ROOF MOUNTED PANEL USING COPPER CONDUCTORS.
B. DESIGN PANEL FEEDER WITH MAXIMUM 2% VOLTAGE-DROP COPPER CONDUCTORS.
C. PROVIDE EXPANSION FITTINGS IN ALL ELECTRICAL CONDUITS AT ROOF EXPANSION JOINTS. (TYPICAL).

1 PARTIAL ELECTRICAL ROOF PLAN
Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

2. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

3. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

4. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

5. MOUNT NEMA 3R PANEL ANCHORED TO ROOF PER ORIGINAL ROOF MANUFACTURER SPECIFICATIONS AND WARRANTY. PROVIDE PITCH-POCKETS TO PENETRATE ROOF TO SUPPORT RACK SYSTEM. SUPPORT TO SUPER-STRUCTURE BELOW.

6. MOUNT NEMA 3R PANEL ON GALVANIZED UNISTRUT RACK SUPPORTED TO SIDE OF EXTERIOR BUILDING WALL.

7. EXISTING EQUIPMENT SERVED FROM PANEL 'RTUP3' TO BE EXTENDED AND TERMINATED TO NEW PANEL. MATCH EXISTING OVER-CURRENT PROTECTION.

8. REUSE EXISTING RACEWAYS THAT COMPLY WITH NEW FEEDER DESIGN SIZES. PROVIDE SUPPORTS 10'-0" ALONG PATH.

HVAC EQUIPMENT FEEDER SCHEDULE

MARK	VOLTAGE/PHASE	AMPS	LENGTH (FEET)	FEEDER	% VOLTAGE DROP
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
HPU-	208/1/60	-	-	-	-
HPU-	208/1/60	-	-	-	-

GENERAL NOTES:
1.CONTRACTOR SHALL MAKE ALL HARD-WIRED CONNECTIONS TO EQUIPMENT INCLUDING PROVIDING PIGTAIL AND PLUG CONNECTIONS WHERE REQUIRED.
2.FOR ALL EQUIPMENTS THAT ARE SCHEDULED BUT NOT SHOWN ON PLANS, CONTRACTOR TO VERIFY NAME PLATE RATING, LOCATION AND TO PROVIDE POWER AS REQUIRED BY N.E.C.
3. NO MORE THAN (6) CURRENT CARRYING CONDUCTORS PER RACEWAY.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET; SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEGMAIL.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL ELECTRICAL ROOF PLAN

DATE: 10.06.2022

SHEET NO.

E507

Z:\2022\TPS\Hale High School\RFP\Dwgs\E507.dwg, 10/11/2022 4:08:36 PM, DawnSantee

HVAC EQUIPMENT FEEDER SCHEDULE

MARK	VOLTAGE/PHASE	AMPS	LENGTH (FEET)	FEEDER	% VOLTAGE DROP
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
RTU-	480/3/60	-	-	-	-
HPU-	208/1/60	-	-	-	-
HPU-	208/1/60	-	-	-	-

GENERAL NOTES:
1.CONTRACTOR SHALL MAKE ALL HARD-WIRED CONNECTIONS TO EQUIPMENT INCLUDING PROVIDING PIGTAIL AND PLUG CONNECTIONS WHERE REQUIRED.
2.FOR ALL EQUIPMENTS THAT ARE SCHEDULED BUT NOT SHOWN ON PLANS, CONTRACTOR TO VERIFY NAME PLATE RATING, LOCATION AND TO PROVIDE POWER AS REQUIRED BY N.E.C.
3. NO MORE THAN (6) CURRENT CARRYING CONDUCTORS PER RACEWAY.

NOTE:
A. DESIGN BRANCH CIRCUITS TO ROOF TOP UNITS AT A MAXIMUM 3% VOLTAGE DROP FROM ROOF MOUNTED PANEL USING COPPER CONDUCTORS.
B. DESIGN PANEL FEEDER WITH MAXIMUM 2% VOLTAGE-DROP COPPER CONDUCTORS.
C. PROVIDE EXPANSION FITTINGS IN ALL ELECTRICAL CONDUITS AT ROOF EXPANSION JOINTS. (TYPICAL).

KEYNOTES: (X)

1. PROVIDE HEAVY DUTY, LOCKABLE AND FUSIBLE NEMA 3R RATED FUSED DISCONNECT WITH FUSES SIZED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.

2. INDICATE NEW THERMOSTAT CABLING PER TPS GUIDELINES, ROUTE 3/4"C. FROM MECHANICAL UNIT TO ROOM THERMOSTAT/SENSOR. ROUTE TO NEAREST CORRIDOR FOR STRUCTURED CABLING SUPPORTS 6'-0" ON-CENTER. COORDINATE LOCATIONS WITH OWNER PRIOR TO WORK.

3. INDICATE CABLING AND RACEWAYS TO SERVE ALARM SENSORS INSTALLED FOR ALL NEW UNIT'S AND ROUTE TO NEAREST IDF/MDF CLOSET WITH ALARM CONTROLLER AND BMS.

4. CONNECT SMOKE DUCT DETECTOR TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE FACP EXPANSION CARDS AND AUXILARY POWER SUPPLY SERVED FROM NEAREST 120V/1P BREAKER WHERE EXPANSION IS REQUIRED.

1 PARTIAL ELECTRICAL ROOF PLAN
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL ELECTRICAL ROOF PLAN

DATE: 10.06.2022

SHEET NO.

E508

Z:\2022\TPS\Hale High School RFP\Dwgs\E508.dwg, 10/11/2022 4:08:40 PM, DawnSantee

ONELINE DIAGRAM PROVIDED FOR REFERENCE ONLY. ENGINEER OF RECORD AND CONTRACTOR SHALL PERFORM REQUIRED SITE INVESTIGATION TO DETERMINE ALLOWABLE CAPACITY TO SERVE NEW HVAC EQUIPMENT.

KEYNOTES: (X)

1. FIELD TRACE AND VERIFY PANELBOARDS SERVED FROM SWITCHBOARD SO TO RELABEL ALL PANELS BY "FLOOR NUMBER AND ALPHABETICAL SEQUENCE. EXAMPLE: 1ST FLOOR PANELS – 1A, 1B, 1C....; 2ND FLOOR PANELS – 2A, 2B, 2C. PROVIDE NEW PHENOLIC LABELS PER FINAL ENGINEERED DRAWINGS. EXISTING PANELS WITH INTERIORS REPLACED WITH RESIDENTIAL STYLE SHALL BE REPLACED WITH NEW COMMERCIAL UL LISTED PANEL INTERIORS WITH BREAKER TO MATCH EXISTING. FIELD VERIFY COUNTS FOR FINAL ENGINEERED CONSTRUCTION DOCUMENTS.

2. EXTEND EXISTING SWITCHBOARD BUSS TO ACCEPT NEW SECTION AND ADD NEW BREAKERS TO SERVE NEW ROOFTOP HVAC EQUIPMENT. SIZE SECTION PER FINAL ENGINEERED DRAWINGS.

3. MODIFY GROUNDING SYSTEM AT SWITCHBOARD TO COMPLY WITH NEC ARTICLE .250 PER FINAL ENGINEERED DRAWINGS.

4. SURVEY EXISTING MAIN SWITCHBOARDS FOR CAPACITY TO SERVE NEW LOADS PRIOR TO FINAL DRAWINGS.

2 EXISTING EXTERIOR ONE-LINE DIAGRAM 'MDP'

Scale: NTS

1 EXISTING BOILER ROOM ONE-LINE DIAGRAM

Scale: NTS

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK, 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEG-TULSA.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

ONE-LINE DIAGRAM
DATE: 10.06.2022

SHEET NO.

E601

Z:\2022\TPS\Hale High School RFP\Dwg\E601.dwg, 10/11/2022 4:08:43 PM, DrawnSante

1. CONTRACTOR SHALL CONTACT TPS REPRESENTATIVE TO COORDINATE MEETING WITH SECURITY SYSTEM VENDOR TO PROVIDE EXACT DEVICE LOCATIONS PRIOR TO ROUGH-IN. DOCUMENT FINAL LOCATIONS AND SUBMIT COPIES TO THE OWNER FOR RECORD DRAWINGS.

2. PROVIDE DEVICES AND BACKBOXES IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. PROVIDE WIREMOLD SURFACE MOUNTED RACEWAY AND BOXES REQUIRED ON EXISTING WALLS.

3. ROUTE ALL SIGNAL AND CONTROL CABLING ON DEDICATED J-HOOKS IN ACCESSIBLE CEILING CAVITY. ROUTE CABLE IN EMT CONDUIT WHERE CEILING STRUCTURES ARE OPEN AND EXPOSED.

4. PROVIDE CONTROL/EXPANSION CARDS AND UPS TO ACCEPT NEW WORK.

5 SECURITY CONTROLS DIAGRAM

Scale: NTS

4 CORRIDOR/RESTROOM LIGHTING CONTROL DETAIL

Scale: NTS

3 STRUCTURED CABLE ROUTING/SUPPORTS

Scale: NTS

2 TYPICAL CLASSROOM DATA DROPS

Scale: NTS

DIVISION 26: SHALL SUBMIT ALL LOW-VOLTAGE RACEWAYS AND BOXES PRIOR TO NEW WORK.

ACCESSIBLE PARTITION WALLS:
NEW DEVICES TO BE FLUSH MOUNT WITH CONCEALED CONDUIT.

EXISTING/MASONRY WALLS:
POWER: WIREMOLD 700 SERIES RACEWAYS.
DATA/COM: LD5WH8 RACEWAYS.
PROVIDE JBX3510WH-A DEVICE BOXES AND ACCESSORIES INSTALLED ON EXISTING CMU WALLS.

1 TYPICAL CLASSROOM DEVICE INSTALLATION ELEVATIONS

Scale: NTS

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@AEGTULSA.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

ELECTRICAL DIAGRAMS & DETAILS

DATE: 10.06.2022

SHEET NO.

E602

Z:\2022\TPS\Hale High School RFP\Dwgs\E602.dwg 10/11/2022 4:08:46 PM DawnSantee

	DESCRIPTION	ANIXTER PART NUMBER
1	2N HELIOS IP FORCE INTERCOM MAN. PART# 9151101CRP	952331
2	0192 RIM STRIKE	CS443408
3	2N SECURITY RELAY	952326
4	4100 STRIKE	CS498075
5	HID CARD READER	512075
6	VIKING K-202-DVA VOICE ALARM DIALING.	356693
7	STI STOPPER STATION	933834
8	900-BB VON DUPRIN BATTERY BACKUP CARD	CS462896
9	VALCOM CALL SWITCH MODEL #V-2972	--
10	VALCOM TALKBACK SPEAKER MODEL #VE4022	--
11	ELECTRIC STRIKE ROCKER SWITCH	CS928135
12	2N HELIOS IP LICENSE, ENHANCED VIDEO TO DOOR PHONES	952426
13	2N SECURED CARD READER READY 13.56 MHZ	952455

NEW DEVICES TO BE FLUSH MOUNT WITH CONCEALED CONDUIT. USE WIREMOLD SERIES RACEWAYS AND BACK BOXES FOR DEVICES TO BE INSTALLED AT EXISTING CMU WALLS.

NEW DEVICES TO BE FLUSH MOUNT WITH CONCEALED CONDUIT. USE WIREMOLD SERIES RACEWAYS AND BACK BOXES FOR DEVICES TO BE INSTALLED AT EXISTING CMU WALLS.

1 TYPICAL SECURE ENTRY DEVICE INSTALLATION ELEVATIONS

Scale: NTS

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

ELECTRICAL DETAIL

DATE: 10.06.2022

SHEET NO.

E603

Z:\2022\TPS\Hale High School-BEP\Dwg\E603.dwg, 10/11/2022 4:08:49 PM, DawnSantee

(E) PANELBOARD 'C'

SURFACE MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR N WING JAN CLOS

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 225 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	FAN COIL RMS 100A,100,101,102,103	30	2	–	A			–	2	30	FAN COIL UNKNOWN ROOM	2
3	–	–	–	–		B		–	–	–	–	4
5	FAN COIL 119/LOBBY 121,122,123	30	2	–			C	–	2	30	FAN COIL UNKNOWN ROOM	6
7	–	–	–	–	A			–	–	–	–	8
9	FAN COIL RMS 115,117,118	20	2	–		B		–	2	20	FAN COIL UNKNOWN ROOM	10
11	–	–	–	–			C	–	–	–	–	12
13	UNKNOWN	20	1	–	A			–	2	20	FAN COIL UNKNOWN ROOM	14
15	UNKNOWN	20	1	–		B		–	–	–	–	16
17	UNKNOWN	20	1	–			C	–	2	20	FAN COIL UNKNOWN ROOM	18
19	FAN COIL	20	2	–	A			–	–	–	–	20
21	–	–	–	–		B		–	2	50	KILN ART ROOM	22
23	FIRE ALARM	20	1	–			C	–	–	–	–	24
25	BLANK	–	–	–	A			–	–	–	BLANK	26
27	BLANK	–	–	–		B		–	–	–	BLANK	28
29	BLANK	–	–	–			C	–	–	–	BLANK	30

(E) PANELBOARD 'K'

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR MIDDLE WING

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	HALL LIGHTS	20	1	–	A			–	1	20	GIRLS RESTROOM LIGHTS	2
3	HALL LIGHTS	20	1	–		B		–	1	20	BOYS RESTROOM LIGHTS	4
5	SPARE	20	1	–			C	–	1	20	ROOM 113 LIGHTS	6
7	SPARE	20	1	–	A			–	1	20	ROOM 112 LIGHTS	8
9	ROOM 112 LIGHTS	20	1	–		B		–	1	20	ROOM 111 LIGHTS	10
11	ROOM 111 LIGHTS	20	1	–			C	–	1	20	ROOM 109 LIGHTS	12
13	ROOM 110 LIGHTS	20	1	–	A			–	1	20	ROOM 110 LIGHTS	14
15	ROOM 109 LIGHTS	20	1	–		B		–	1	20	ROOM 108 LIGHTS	16
17	ROOM 108 LIGHTS	20	1	–			C	–	1	20	ROOM 109 LIGHTS	18
19	OLD HEATERS	20	1	–	A			–	1	20	OLD HEATERS	20
21	ROOM 113 LIGHTS	20	1	–		B		–	1	20	ROOM 106 LIGHTS	22
23	UNKNOWN	20	1	–			C	–	1	20	ROOM 107 LIGHTS	24
25	UNKNOWN	20	1	–	A			–	1	20	ROOM 107 REC & A/C	26
27	UNKNOWN	20	1	–		B		–	1	20	ROOM 107 REC & A/C	28
29	EMERGENCY LIGHTS	20	1	–			C	–	1	20	WATER FOUNTAIN	30
31	HALL LIGHTS	20	1	–	A			–	1	20	POD 112	32
33	LIGHTS 112	20	1	–		B		–	1	20	COUNTERTOP 112	34
35	TEACHER STATION 112	20	1	–			C	–	1	20	REFRIGERATOR 112	36
37	POD 112	20	1	–	A			–	1	20	DISHWASHER 112	38
39	POD 112	20	1	–		B		–	1	20	SPARE	40
41	POD 112	20	1	–			C	–	1	20	SPARE	42

(E) PANELBOARD 'Y'

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR MIDDLE WING

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MCB
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	ROOM 113 RECEPT	20	1	–	A			–	1	20	ROOM 106 AND 107 RECEPT	2
3	ROOM 107 RECEPT	20	1	–		B		–	1	20	ROOM 113 LIGHTS	4
5	SPARE	20	1	–			C	–	1	20	ROOM 113 LIGHTS	6
7	ROOM 112 RECEPT	20	1	–	A			–	1	20	ROOM 112 RECEPTS	8
9	ROOM 112 RECEPT	20	1	–		B		–	1	20	ROOM 110 RECEPT	10
11	ROOM 111 RECEPT	20	1	–			C	–	1	20	ROOM 110 RECEPT	12
13	ROOM 110 RECEPT	20	1	–	A			–	1	20	ROOM 110 RECEPT	14
15	ROOM 110 RECEPT	20	1	–		B		–	1	20	ROOM 110 RECEPT	16
17	ROOM 109 RECEPT	20	1	–			C	–	1	20	ROOM 110 RECEPT	18
19	SPARE	20	1	–	A			–	1	20	I-NET	20
21	OLD HEATERS	20	1	–		B		–	1	20	EAST HALL RECEPT	22
23	PRINTER ROOM 108 RECEPT	20	1	–			C	–	1	20	ROOM 108 RECEPT	24
25	ROOM 113 POD REC	20	1	–	A			–	1	20	SPARE	26
27	ROOM 113 POD REC	20	1	–		B		–	1	20	SPARE	28
29	ROOM 108 RECEPT	20	1	–			C	–	1	20	–	30
31	ROOM 113 POD REC	20	1	–	A			–	1	20	ROOM 113 REC AND DISHWASHER	32
33	ROOM 113 POD REC	20	1	–		B		–	1	20	ROOM 113 RECEPT	34
35	ROOM 113 TEACHER STATION	20	1	–			C	–	1	20	ROOM 113 LIGHTS	36
37	ROOM 113 POD REC	20	1	–	A			–	1	20	–	38
39	ROOM 113 POD REC	20	1	–		B		–	1	20	ROOM 113 POD REC	40
41	ROOM 113 AND HALL REC	20	1	–			C	–	1	20	ROOM 113 POD REC	42

(E) SWITCHBOARD 'DP-1'

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR N WING JAN CLOSET

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 800 AMP, MCB
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	MAIN CIRCUIT BREAKER	800	3	–	A			–	–	–	–	2
	–	–	–	–		B		–	–	–	–	
	–	–	–	–			C	–	–	–	–	
3	CONDENSING UNIT	250	3	–	A			–	–	–	–	4
	–	–	–	–		B		–	–	–	–	
	–	–	–	–			C	–	–	–	–	
5	UNKNOWN	200	3	–	A			–	–	–	–	6
	–	–	–	–		B		–	–	–	–	
	–	–	–	–			C	–	–	–	–	
7	PANEL 'H'	250	3	–	A			–	–	–	–	8
	–	–	–	–		B		–	–	–	–	
	–	–	–	–			C	–	–	–	–	
9	PANEL 'C'	150	3	–	A			–	3	100	PANEL 'F'	10
	–	–	–	–		B		–	–	–	–	
	–	–	–	–			C	–	–	–	–	
11	BLANK	–	–	–	A			–	–	–	BLANK	12
	–	–	–	–		B		–	–	–	–	
	–	–	–	–			C	–	–	–	–	
13	BLANK	–	–	–	A			–	–	–	BLANK	14
	–	–	–	–		B		–	–	–	–	
	–	–	–	–			C	–	–	–	–	

(E) PANELBOARD 'B'

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR JAN CLOS NEAR 108

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 400 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	FAN COIL ROOMS 111,112,113	20	2	–	A			–	2	20	COVE HEATER	2
3	–	–	–	–		B		–	–	–	–	4
5	FAN COIL ROOMS 106,107,114	20	2	–			C	–	2	20	ROOM 113 STORAGE	6
7	–	–	–	–	A			–	–	–	–	8
9	FAN COIL ROOMS 108,109,110	20	2	–		B		–	2	20	UNKNOWN	10
11	–	–	–	–			C	–	–	–	–	12
13	COVE HEATER	20	2	–	A			–	2	20	UNKNOWN	14
15	–	–	–	–		B		–	–	–	–	16
17	MIDDLE RESTROOM	20	2	–			C	–	2	20	UNKNOWN	18
19	–	–	–	–	A			–	–	–	–	20
21	UNKNOWN	20	2	–		B		–	2	20	UNKNOWN	22
23	–	–	–	–			C	–	–	–	–	24
25	FAN 112	20	2	–	A			–	2	20	UNKNOWN	26
27	–	–	–	–		B		–	–	–	–	28
29	FAN 112	20	1	–			C	–	1	20	FIRE ALARM	30
31	FAN 112	20	1	–	A			–	–	–	BLANK	32
33	BLANK	–	–	–		B		–	–	–	BLANK	34
35	BLANK	–	–	–			C	–	–	–	BLANK	36
37	BLANK	–	–	–	A			–	–	–	BLANK	38
39	BLANK	–	–	–		B		–	–	–	BLANK	40
41	BLANK	–	–	–			C	–	–	–	BLANK	42

(E) PANELBOARD '120A'

SURFACE MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR ROOM 120A

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 125 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	RANGE	50	2	–	A			–	1	20	RECEPT DYER	2
3	–	–	–	–		B		–	1	20	RECEPT DYER	4
5	KITCHEN RECEPT	20	1	–			C	–	1	20	RECEPT DYER	6
7	DISHWASHER	20	1	–	A			–	1	20	RECEPT DYER	8
9	UNKNOWN	20	1	–		B		–	1	20	RECEPT DYER	10
11	UNKNOWN	20	1	–			C	–	1	20	RECEPT DYER	12
13	UNKNOWN	20	1	–	A			–	1	20	RECEPT DYER	14
15	UNKNOWN	20	1	–		B		–	1	20	LOUNGE	16
17	UNKNOWN	20	1	–			C	–	1	20	LOUNGE	18
19	GFCI RECEPT FRONT ENTRY	20	1	–	A			–	2	30	LOUNGE	20
21	MDF CLOSET FAN COIL	30	2	–		B		–	–	–	–	22
23	–	–	–	–			C	–	–	–	–	24
25	BLANK	–	–	–	A			–	–	–	BLANK	26
27	BLANK	–	–	–		B		–	–	–	BLANK	28
29	BLANK	–	–	–			C	–	–	–	BLANK	30

(E) PANELBOARD 1ST FLR E HALL

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR E HALL

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	HALL LIGHTS	20	1	–	A			–	–	20	HALL LIGHTS	2
3	HALL LIGHTS	20	1	–		B		–	–	20	I-NET	4
5	EMERGENCY LIGHTS	20	1	–			C	–	–	20	ROOM 121 LIGHTS	6
7	I-NET	20	1	–	A			–	–	20	I-NET	8
9	HALL LIGHT	20	1	–		B		–	–	20	HALL LIGHTS	10
11	UNKNOWN	20	1	–			C	–	–	20	ROOM 121 RECEPT	12
13	CONFERENCE ROOM LIGHTS	20	1	–	A			–	–	20	ROOM 121 RECEPT	14
15	DO NOT TURN OFF (SEC)	20	1	–		B		–	–	20	CONFERENCE ROOM LIGHTING	16
17	CONFERENCE ROOM LIGHTS	20	1	–			C	–	–	20	I-NET	18
19	UNKNOWN	20	1	–	A			–	–	20	ROOM 122 LIGHTS	20
21	FITNESS ROOM N TREAD	20	1	–		B		–	–	20	ROOM 123 LIGHTS	22
23	ROOM 122,123 RECEPT	20	1	–			C	–	–	20	ROOM 122 LIGHTS	24
25	POLE SIGN/LED BRD POLE SIGN	20/20	2	–	A			–	1	20	UNKNOWN	26
27	UNKNOWN	20	1	–		B		–	1	20/20	LOBBY SHOWCASE/CONF ROOM LIGHTS	28
29	HALL RECEPTS	20	1	–			C	–	1	20/20	ROOM 121 LIGHTS	30
31	UNKNOWN	20	1	–	A			–	1	20/20	ROOM 120B LIGHTS	32
33	ABS CONTROL POWER AHU 1 & 2	20	1	–		B		–	1	20/20	ROOM 120B LIGHTS	34
35	UNKNOWN	20	1	–			C	–	1	20	FITNESS ROOM WEST SPEAKERS	36
37	ROOM 123 KILN	50	3	–	A			–	3	20	ROOM 115 COMPUTER RECEPT	38
39	–	–	–	–		B		–	–	–	–	40
41	–	–	–	–			C	–	–	–	–	42

(E) PANELBOARD 1ST FLR N WING

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR N WING

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	WATER FOUNTAIN	20	1	–	A			–	–	20	BAND ROOM RECEPT	2
3	SPARE	20	1	–		B		–	–	20	BAND ROOM LIGHTS	4
5	BAND ROOM LIGHTS	20	1	–			C	–	–	20	ROOM 104 LIGHTS	6
7	ROOM 104 LIGHTS	20	1	–	A			–	–	20	ROOM 104 LIGHTS	8
9	BAND ROOM LIGHTS	20	1	–		B		–	–	20	ROOM 103 LIGHTS	10
11	ROOM 103 LIGHTS	20	1	–			C	–	–	20	ROOM 102 LIGHTS	12
13	ROOM 102 LIGHTS	20	1	–	A			–	–	20	ROOM 101 LIGHTS	14
15	ROOM 101 LIGHTS	20	1	–		B		–	–	20	ROOM 100 LIGHTS	16
17	ROOM 100 LIGHTS	20	1	–			C	–	–	20	ROOM 100 AND BATH LIGHTS	18
19	BAND ROOM LIGHTS	20	1	–	A			–	–	20	ROOM 102 AND 103 LIGHTS	20
21	ROOM 104 RECEPT	20	1	–		B		–	–	20	ROOM 100 RECEPT	22
23	ROOM 100,101 RECEPT	20	1	–			C	–	–	20	BAND ROOM STORAGE LIGHTS	24
25	UNKNOWN	20	1	–	A			–	1	20	STORAGE ROOM LIGHTS	26
27	UNKNOWN	20	1	–		B		–	1	20	ABS CONTROLS	28
29	BAND ROOM OFFICE RECEPT	20	1	–			C	–	1	20	UNKNOWN	30
31	BAND ROOM RECEPT	20	1	–	A			–	1	20	UNKNOWN	32
33	HALL LIGHTS	20	1	–		B		–	1	20	UNKNOWN	34
35	EMERGENCY LIGHTS	20	1	–			C	–	1	20	SPARE	36
37	HALL LIGHTS	20	1	–	A			–	1	20	SPARE	38
39	SPARE	20	1	–		B		–	1	20	SPARE	40
41	SPARE	20	1	–			C	–	1	20	SPARE	42

TULSA PUBLIC SCHOOLS

AEG
ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEGMEP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

EXISTING PANELBOARDS

DATE: 10.06.2022

SHEET NO.

E701

Z:\2022\TPS\Hale High School-RFP\Dwgs\E701.dwg, 10/11/2022 4:08:51 PM, DawnSantee

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 2ND FLR S WING

(E) PANELBOARD 2ND FLR S WING

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 200 AMP, MCB
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	ROOM 225B EX FAN	20	1	–	A			–	1	20	EMERGENCY LIGHTS	2
3	ROOM 225B RECEPT	20	1	–		B		–	1	20	ROOM 229 AND 230 RECEPT	4
5	ROOM 231 LIGHTS	20	1	–			C	–	1	20	ROOM 231 AND 232 RECEPT	6
7	BATHROOM LIGHTS	20	1	–	A			–	1	20	ROOM 227,228 AND HALL RECEPT	8
9	ROOM 230 LIGHTS	20	1	–		B		–	1	20	ROOM 227,228 AND HALL RECEPT	10
11	ROOM 229 LIGHTS	20	1	–			C	–	1	20	ROOM 225 REC AND TIME CLOCK	12
13	–	20	1	–	A			–	1	20	–	14
15	ROOM 225B LIGHTS	20	1	–		B		–	1	20	–	16
17	ROOM 225A LIGHTS	20	1	–			C	–	1	20	ROOM 225B AND 226 REC	18
19	ROOM 225A LIGHTS	20	1	–	A			–	1	20	–	20
21	ROOM 225B LIGHTS	20	1	–		B		–	1	20	CUSTODIAL REC AND EX FAN	22
23	ROOM 226 LIGHTS	20	1	–			C	–	1	20	ROOM 225B RECEPT	24
25	ROOM 232 LIGHTS	20	1	–	A			–	–	–	SPARE	26
27	ROOM 227 LIGHTS	20	1	–		B		–	–	–	SPARE	28
29	ROOM 229 LIGHTS	20	1	–			C	–	–	–	SPARE	30
31	HALL LIGHTS	20	1	–	A			–	–	–	SPARE	32
33	HALL LIGHTS	20	1	–		B		–	–	–	SPACE	34
35	SPACE	–	–	–			C	–	–	–	SPACE	36
37	SPACE	–	–	–	A			–	–	–	SPACE	38
39	SPACE	–	–	–		B		–	–	–	SPACE	40
41	SPACE	–	–	–			C	–	–	–	SPACE	42

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 2ND FLR MIDDLE WING

(E) PANELBOARD 'M'

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	ROOM 212 LIGHTS	20	1	–	A			–	1	20	ROOM 211 FLOOR PLUG	2
3	ROOM 212 LIGHTS/ROOM 212 LIGHTS	20/20	1	–		B		–	1	20	–	4
5	ROOM 212 RECEPT	20	1	–			C	–	1	20	–	6
7	ROOM 211 LIGHTS	20	1	–	A			–	1	20	ROOM 207 N WALL RECEPT	8
9	ROOM 211 LIGHTS	20	1	–		B		–	1	20	ROOM 207 W WALL RECEPT	10
11	ROOM 212 RECEPT	20	1	–			C	–	1	20	ROOM 205 RECEPT	12
13	ROOM 211 RECEPT	20	1	–	A			–	1	20	ROOM 205 DATA RACK RECEPT	14
15	ROOM 212 RECEPT	20	1	–		B		–	1	20	ROOM 206 QUAD RECEPT W WALL	16
17	ROOM 211 WASHER RECEPT	20	1	–			C	–	1	20	–	18
19	ROOM 211 RECEPT	20	1	–	A			–	1	20	ROOM 205 RECEPT	20
21	ROOM 211 RECEPT	20	1	–		B		–	1	20	ROOM 205 RECEPT	22
23	ROOM 211 RECEPT	20	1	–			C	–	1	20	ROOM 210 AND 211 RECEPT	24
25	RM 211 FLR REC/RM 211&HALL REC	20/20	2	–	A			–	2	20/20	–	26
27	ROOM 211 RANGE RECEPT	50	2	–		B		–	–	–	ROOM 212 RANGE REC	28
29	–	–	–	–			C	–	–	–	ROOM 212 RANGE REC	30
31	ROOM 211 PANEL 'M31'	50	2	–	A			–	–	–	ROOM 212 RANGE REC	32
33	–	–	–	–		B		–	–	–	ROOM 212 RANGE REC	34
35	RM 211,212 STORAGE (DRYER RECEPT)	50	2	–			C	–	–	–	ROOM 212 RANGE REC	36
37	–	–	–	–	A			–	–	–	ROOM 212 RANGE REC	38
39	RM 211,210 OFFICE (DRYER RECEPT)	50	2	–		B		–	–	–	ROOF TOP GFI REC	40
41	–	–	–	–			C	–	–	–	SPARE	42

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 2ND FLR NS HALL

(E) PANELBOARD 2ND FLR NS HALL

(WEIGHT ROOM)

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 200 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	ROOM 118 LIGHTS	20	1	–	A			–	1	20	ROOM 218 LIGHTS	2
3	ROOM 118 LIGHTS	20	1	–		B		–	1	20	ROOM 218 LIGHTS	4
5	ROOM 118 LIGHTS	20	1	–			C	–	1	20	ROOM 218 LIGHTS	6
7	WEIGHT ROOM LIGHTS	20	1	–	A			–	1	20	WEIGHT ROOM LIGHTS	8
9	WEIGHT ROOM LIGHTS	20	1	–		B		–	1	20	–	10
11	WEIGHT ROOM LIGHTS	20	1	–			C	–	1	20	–	12
13	WEIGHT ROOM OFF LIGHTS	20	1	–	A			–	1	20	WEIGHT ROOM REC S WALL	14
15	–	20	1	–		B		–	1	20	WEIGHT ROOM REC E WALL	16
17	WEIGHT ROOM N WALL REC	20	1	–			C	–	1	20	WEIGHT ROOM RECEPT	18
19	ROOM 213 LIGHTS	20	1	–	A			–	1	20	ROOM 213 REFCEPT	20
21	ROOM 214 W ROW LIGHTS	20	1	–		B		–	1	20	ROOM 214 E ROW LIGHTS	22
23	ROOM 215 LIGHTS	20	1	–			C	–	1	20	ROOM 214 LIGHTS	24
25	ROOM 215A LIGHTS	20	1	–	A			–	1	20	ROOM 214 E WALL REC	26
27	OLD HEATER FANS	20	1	–		B		–	1	20	ROOM 214 W WALL REC	28
29	ROOM 214 AND 215 RECEPT	20	1	–			C	–	1	20	–	30
31	EMERGENCY LIGHTS	20	1	–	A			–	1	20	ROOM 218 RECEPT	32
33	HALL LIGHTS	20	1	–		B		–	1	20	–	34
35	WEIGHT ROOM RECEPT	20	1	–			C	–	1	20	B.A.	36
37	SPARE	20	1	–	A			–	1	20	WEIGHT ROOM RECEPT	38
39	ROOF TOP GFI RECEPT	20	1	–		B		–	–	–	SPARE	40
41	SPARE	–	–	–			C	–	–	–	SPARE	42

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 2ND FLR MIDDLE WING

(E) PANELBOARD 'D'

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 200 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	HALL LIGHTS	20	1	–	A			–	1	20	GIRL RESTROOM & CUSTODIAN LIGHTS	2
3	HALL LIGHTS	20	1	–		B		–	1	20	ROOM 216 LIGHTS	4
5	ROOM 210 LIGHTS	20	1	–			C	–	1	20	ROOM 209B LIGHTS	6
7	ROOM 209 LIGHTS	20	1	–	A			–	1	20	ROOM 209 LIGHTS	8
9	ROOM 208 LIGHTS	20	1	–		B		–	1	20	ROOM 208 LIGHTS	10
11	ROOM 207 LIGHTS	20	1	–			C	–	1	20	ROOM 207 LIGHTS	12
13	ROOM 206 LIGHTS	20	1	–	A			–	1	20	ROOM 206 LIGHTS	14
15	ROOM 205 LIGHTS	20	1	–		B		–	1	20	ROOM 206 LIGHTS	16
17	ROOM 210 RECEPT	20	1	–			C	–	1	20	HALL RECEPTS	18
19	CLINIC AND NURSE OFF RECEPT	20	1	–	A			–	1	20	BOYS RESTROOM LIGHTS	20
21	ROOM 210 RECEPT	20	1	–		B		–	1	20	–	22
23	–	20	1	–			C	–	1	20	ROOM 210 RECEPT	24
25	–	20	1	–	A			–	1	20	ROOM 209 RECEPT	26
27	ROOM 209 RECEPT	20	1	–		B		–	1	20	–	28
29	ROOM 209 RECEPT	20	1	–			C	–	1	20	ROOM 208 AND HALL RECEPT	30
31	ROOM 207 FLOOR RECEPT	20	1	–	A			–	1	20	ROOM 206 AND 207 RECEPT	32
33	ROOM 205 AND STORAGE REC	20	1	–		B		–	1	20	ROOM 205 AND HALL RECEPT	34
35	ROOM 209 RECEPT	20	1	–			C	–	1	20	ROOM 205 RECEPT	36
37	ROOM 205 AND STORAGE LTG	20	1	–	A			–	1	20	LOUNGE LIGHTS	38
39	ROOM 206 RECEPT	20	1	–		B		–	1	20	ROOM 206 RECEPT	40
41	EMERGENCY LIGHTS	20	1	–			C	–	1	20	CLINIC LIGHTS	42

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 2ND FLR NS HALL

(E) PANELBOARD 2ND FLR NS HALL

(BY DANCE ROOM)

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	DANCE ROOM A/C	30	2	–	A			–	1	20	LITTLE GYM LIGHTS	2
3	–	–	–	–		B		–	1	20	LITTLE GYM LIGHTS	4
5	DANCE ROOM LIGHT	20	1	–			C	–	1	20	LITTLE GYM LIGHTS	6
7	WATER FOUNTAIN	20	1	–	A			–	1	20	LITTLE GYM LIGHTS	8
9	HALL RECEPT	20	1	–		B		–	1	20	LITTLE GYM LIGHTS	10
11	HALL LIGHTS	20	1	–			C	–	1	20	EXHAUST FAN #4	12
13	–	20	1	–	A			–	1	20	–	14
15	DANCE ROOM LIGHT	20	1	–		B		–	1	20	DANCE LOCKER ROOM LTG	16
17	DANCE ROOM LIGHT	20	1	–			C	–	1	20	GIRL LOCKER ROOM LIGHT	18
19	AHU-8 CONTROL POWER	20	1	–	A			–	1	20	–	20
21	HALL LIGHTS	20	1	–		B		–	1	20	IDF INTERNET	22
23	EMERGENCY LIGHTS	20	1	–			C	–	1	20	–	24
25	SPARE	–	–	–	A			–	–	–	SPARE	26
27	SPARE	–	–	–		B		–	–	–	SPARE	28
29	SPARE	–	–	–			C	–	–	–	SPARE	30
31	SPARE	–	–	–	A			–	–	–	SPARE	32

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 2ND FLR N WING

(E) PANELBOARD 2ND FLR S WING

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 225 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	WEST WATER FOUNTAIN	20	1	–	A			–	1	20	HALL LIGHTS	2
3	SPARE	20	1	–		B		–	1	20	HALL LIGHTS	4
5	ROOM 204 LIGHTS	20	1	–			C	–	1	20	ROOM 204 LIGHTS	6
7	ROOM 204 LIGHTS	20	1	–	A			–	1	20	ROOM 203 LIGHTS	8
9	ROOM 203 LIGHTS	20	1	–		B		–	1	20	ROOM 202 LIGHTS	10
11	ROOM 202 LIGHTS	20	1	–			C	–	1	20	–	12
13	ROOM 201 LIGHTS	20	1	–	A			–	1	20	RESTROOM, CUSTODIAN ROOM 200 LTS	14
15	ATTENDANCE OFF LIGHTS	20	1	–		B		–	1	20	ATT. OFFICE LIGHTS	16
17	ROOM 204 RECEPT	20	1	–			C	–	1	20	E WATER FOUNTAIN	18
19	ROOM 200 AND ATTEN. OFF REC	30	1	–	A			–	1	20	ROOM 201,202 AND HALL REC	20
21	HEATER FANS CONT.	20	1	–		B		–	1	20	ROOM 202 A/C	22
23	ATT. DEANS OFF A/C	30	1	–			C	–	1	30	ATT. OFFICE A/C	24
25	ATT. DEANS OFF A/C	30	1	–	A			–	1	30	ATT. OFFICE LIGHTS	26
27	SPARE	20	1	–		B		–	1	20	ROOM 201 COMPUTERS	28
29	SPARE	20	1	–			C	–	1	20	COUNSELOR OFFICE RECEPT	30
31	SPARE	20	1	–	A			–	1	20	COUNSELOR OFFICE RECEPT	32
33	SPARE	20	1	–		B		–	1	20	COUNSELOR OFFICE RECEPT	34
35	ROOM 201 A/C	30	2	–			C	–	2	30	ROOM 201 A/C	36
37	–	–	–	–	A			–	–	–	–	38
39	SPARE	20	1	–		B		–	1	20	SPARE	40
41	SPARE	–	–	–			C	–	1	20	EMERGENCY LIGHTS	42

TULSA PUBLIC SCHOOLS

AEG
ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEG-EMP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

EXISTING PANELBOARDS

DATE: 10.06.2022

SHEET NO.

E702

Z:\2022\TPS\Hale High School RFP\Dwgs\E702.dwg, 10/11/2022 4:08:53 PM, DawnSantee

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 3RD FLR S HALL

(E) PANELBOARD 3RD FLR S HALL

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	ROOM 38 OLD HEATER	20	1	–	A			–	1	20	WATER FOUNTAIN	2
3	AH ROOM LIGHTS	20	1	–		B		–	1	20	ROOM TO ROOF LIGHTS	4
5	ROOM 308 LIGHTS	20	1	–			C	–	1	20	ROOM 307 OLD HEATER	6
7	ROOM 308 LIGHTS	20	1	–	A			–	1	20	–	8
9	ROOM 308 LIGHTS	20	1	–		B		–	1	20	ROOM 307 LIGHTS	10
11	ROOM 306 LIGHTS	20	1	–			C	–	1	20	ROOM 307 LIGHTS	12
13	ROOM 306 LIGHTS	20	1	–	A			–	1	20	ROOM 306 OLD HEATER	14
15	ROOM 306, 307 AND HALL RECEPTS	20	1	–		B		–	1	20	–	16
17	HALL LIGHTS	20	1	–			C	–	1	20	ROOM TO ROOF RECEPT	18
19	EMERGENCY LIGHTS	20	1	–	A			–	2	20/20	SPARE/ROOM 308 RECEPT	20
21	SPARE/SPARE	20/20	2	–		B		–	2	–	ROOM 308 FLOOR RECEPT	22
23	BLANK	–	–	–			C	–	–	–	BLANK	24

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 3RD FLR N WING

(E) PANELBOARD 3RD FLR N WING

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 225 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	HALL LIGHTS	20	1	–	A			–	1	20	ROOM 303 LIGHTS	2
3	EMERGENCY LIGHTS	20	1	–		B		–	1	20	ROOM 302 AND 303 RECEPT	4
5	HALL LIGHTS	20	1	–			C	–	1	20	ROOM 303 LIGHTS	6
7	RESTROOM CUSTODIAN LIGHTS	20	1	–	A			–	1	20	ROOM 302 LIGHTS	8
9	ROOM 300 LIGHTS	20	1	–		B		–	1	20	ROOM 302 LIGHTS	10
11	ROOM 300 LIGHTS	20	1	–			C	–	1	20	ROOM 305 OLD HEATER FAN	12
13	ROOM 301 LIGHTS	20	1	–	A			–	1	20	ROOM 304 LIGHTS	14
15	ROOM 301 LIGHTS	20	1	–		B		–	1	20	ROOM 304 AND 305 RECEPT	16
17	ROOM 300,301,302 RECEPT	20	1	–			C	–	1	20	ROOM 304 LIGHTS	18
19	ROOM 300 AND HALL LIGHTS	20	1	–	A			–	1	20	ROOM 305 LIGHT	20
21	SPARE	–	–	–		B		–	1	20	ROOM 305 LIGHT	22
23	SPARE	–	–	–			C	–	1	20	HALLWAY PRINTER	24
25	SPARE	–	–	–	A			–	1	20	RM 304,305 RECEPT/WATER FOUNTAIN	26
27	SPARE	–	–	–		B		–	–	–	SPARE	28
29	SPARE	–	–	–			C	–	–	–	SPARE	30
31	SPARE	–	–	–	A			–	–	–	SPARE	32
33	SPARE	–	–	–		B		–	–	–	SPARE	34
35	SPARE	–	–	–			C	–	–	–	SPARE	36
37	SPARE	–	–	–	A			–	–	–	SPARE	38
39	SPARE	–	–	–		B		–	–	–	SPARE	40
41	SPARE	–	–	–			C	–	–	–	SPARE	42

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 3RD FLR S WING

(E) PANELBOARD 3RD FLR S WING

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 225 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	BATHROOM EX FANS	20	1	–	A			–	1	20	ROOM 325 LIGHTS	2
3	BATHROOM LIGHTS	20	1	–		B		–	1	20	WATER FOUNTAIN REC	4
5	ROOM 333 LIGHTS	20	1	–			C	–	1	20	FRROM 327 LIGHTS	6
7	ROOM 332 LIGHTS	20	1	–	A			–	1	20	ROOM 325 AND HALL RECEPT	8
9	–	20	1	–		B		–	1	20	ROOM 326,327 AND HALL REC	10
11	ROOM 331 OFFICE LIGHTS	20	1	–			C	–	1	20	ROOM 327,328,329 AND HALL REC	12
13	ROOM 331 LIGHTS	20	1	–	A			–	1	20	–	14
15	ROOM 330 LIGHTS	20	1	–		B		–	2	20/20	–	16
17	ROOM 329 LIGHTS	20	1	–			C	–	1	20	ROOM 330 AND 331 REC	18
19	ROOM 328 LIGHTS	20	1	–	A			–	1	20	ROOM 326 RECEPT	20
21	ROOM 333 RECEPT	20	1	–		B		–	1	20	ROOM 326 LIGHTS	22
23	ROOM 332 OFF RECEPT	20	1	–			C	–	1	20	ROOM 330 REC	24
25	HALL LIGHTS	20	1	–	A			–	1	20	ROOM 330 REC	26
27	HALL LIGHTS	20	1	–		B		–	1	20	ROOM 330 REC	28
29	EMERGENCY LIGHTS	20	1	–			C	–	–	–	BLANK	30
31	BLANK	–	–	–	A			–	–	–	BLANK	32
33	BLANK	–	–	–		B		–	–	–	BLANK	34
35	BLANK	–	–	–			C	–	–	–	BLANK	36
37	BLANK	–	–	–	A			–	3	100	–	38
39	BLANK	–	–	–		B		–	–	–	–	40
41	BLANK	–	–	–			C	–	–	–	–	42

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0564/FAX (918) 384-3188 AEGMAIL@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

EXISTING PANELBOARDS

DATE: 10.06.2022

SHEET NO.

E703

Z:\2022\TPS\Hale High School-RFP\Dwgs\E703.dwg, 10/11/2022 4:08:56 PM, DawnSantee

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: CAFETERIA

(E) PANELBOARD CAFETERIA SEC–1

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 200 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	HOT FOOD CENTER EAST	30	3	–	A			–	3	30	CLOTHES DRYER	2
3	–	–	–	–		B		–	–	–	–	4
5	–	–	–	–			C	–	–	–	–	6
7	DEEP FREEZER EAST	30	3	–	A			–	3	30	ICE MAKER	8
9	–	–	–	–		B		–	–	–	–	10
11	–	–	–	–			C	–	–	–	–	12
13	COOLER/FREEZER EVAP	30	3	–	A			–	3	30	COOLER EVAP	14
15	–	–	–	–		B		–	–	–	–	16
17	–	–	–	–			C	–	–	–	–	18
19	WALK–IN FREEZER	30	3	–	A			–	3	30	SPARE	20
21	–	–	–	–		B		–	–	–	–	22
23	–	–	–	–			C	–	–	–	–	24
25	HOT FOOD WEST	30	3	–	A			–	3	30	SILVER STERILIZER	26
27	–	–	–	–		B		–	–	–	–	28
29	–	–	–	–			C	–	–	–	–	30
31	–	–	–	–	A			–	–	–	–	32
33	–	–	–	–		B		–	–	–	–	34
35	–	–	–	–			C	–	–	–	–	36
37	–	–	–	–	A			–	–	–	–	38
39	–	–	–	–		B		–	–	–	–	40
41	–	–	–	–			C	–	–	–	–	42

RFP AND KITCHEN DEMO

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: CAFETERIA

(E) PANELBOARD CAFETERIA SEC–2

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 200 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	SAZUA EJECTOR	30	3	–	A			–	3	30	HOT WATER TANK	2
3	–	–	–	–		B		–	–	–	–	4
5	–	–	–	–			C	–	–	–	–	6
7	CENTER COOLER 3 DOORS	30	3	–	A			–	3	30	HOT FOOD EAST	8
9	–	–	–	–		B		–	–	–	–	10
11	–	–	–	–			C	–	–	–	–	12
13	HOOD EXHAUST FAN	30	3	–	A			–	3	30	PANEL IN DOG HOUSE	14
15	–	–	–	–		B		–	–	–	–	16
17	–	–	–	–			C	–	–	–	–	18
19	DISHWASHER	30	3	–	A			–	3	30	1HP MIXER	20
21	–	–	–	–		B		–	–	–	–	22
23	–	–	–	–			C	–	–	–	–	24
25	ACW H UNIT CAFETERIA	30	3	–	A			–	3	30	1/2HP MIXER	26
27	–	–	–	–		B		–	–	–	–	28
29	–	–	–	–			C	–	–	–	–	30
31	A/NORTH SERVING LINE	30	3	–	A			–	3	30	DISHWASHER PUMP MOTOR	32
33	TRAU/SERV 208V	–	–	–		B		–	–	–	–	34
35	–	–	–	–			C	–	–	–	–	36
37	–	–	–	–	A			–	–	–	–	38
39	–	–	–	–		B		–	–	–	–	40
41	–	–	–	–			C	–	–	–	–	42

RFP AND KITCHEN DEMO

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: KITCHEN

(E) PANELBOARD 'KP–2'

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	CAFETERIA LIGHTS	20	1	–	A			–	1	20	SNACK BAR CASH REGISTER	2
3	CAFETERIA LIGHTS	20	1	–		B		–	1	20	FAN RECEPT/KRONOS	4
5	CAFETERIA LIGHTS	20	1	–			C	–	1	20	–	6
7	CAFETERIA LIGHTS	20	1	–	A			–	1	20	BA	8
9	CAFETERIA LIGHTS	20	1	–		B		–	1	20	KITCHEN LIGHTS	10
11	CAFETERIA LIGHTS	20	1	–			C	–	1	20	BA	12
13	CAFETERIA RECEPT	20	1	–	A			–	1	20	KITCHEN LIGHTS	14
15	CAFETERIA RECEPT	20	1	–		B		–	1	20	–	16
17	BLANK	–	–	–			C	–	1	20	CAFETERIA RECEPT	18
19	BLANK	–	–	–	A			–	–	–	BLANK	20
21	BLANK	–	–	–		B		–	–	–	BLANK	22
23	BLANK	–	–	–			C	–	–	–	BLANK	24
25	BLANK	–	–	–	A			–	–	–	BLANK	26
27	BLANK	–	–	–		B		–	–	–	BLANK	28
29	BLANK	–	–	–			C	–	–	–	BLANK	30

RFP AND KITCHEN

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: KITCHEN

(E) PANELBOARD 'KP–1'

VOLT: 208Y/120V, 3PH, 4 WIRE
AMPS: 100 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE			KVA	PL	BRKR	DESCRIPTION	CKT
1	KITCHEN COUNTER REC	20	1	–	A			–	1	20	TOP OVEN (WEST)	2
3	SPARE	20	1	–		B		–	1	20	BOTTOM OVEN (WEST)	4
5	HYPER STM AND DEEP FRYER	20	1	–			C	–	1	20	KIT. REC. AND HOT POT	6
7	–	20	1	–	A			–	1	20	VECTAIRE (TOP)	8
9	KITCHEN LIGHTS	20	1	–		B		–	1	20	ICE MACHINE	10
11	DISHWASHER EXHAUST FAN	20	1	–			C	–	1	20	W. CASH REG. RECEPT	12
13	FRE	20	1	–	A			–	1	20	KITCHEN RECEPT	14
15	CAFETERIA RECEPT	20	1	–		B		–	1	20	FOOD LINE COOLER	16
17	VECTAIRE (BOTTOM)	20	1	–			C	–	1	20	FOOD LINE COOLER FAN	18
19	–	20	1	–	A			–	1	20	KIT. MIXER RECEPT	20
21	W. FOOD LINE COMP	20	1	–		B		–	1	20	HOOD LIGHT	22
23	WASHING MACHINE	20	1	–			C	–	1	20	S. WALL REFRIGERATOR	24
25	WATER HEATER	20	1	–	A			–	1	20	FOOD LINE LIGHTS	26
27	KITCHEN RECEPT	20	1	–		B		–	1	20	VENT HOOD LIGHTS	28
29	KITCHEN LIGHTS	20	1	–			C	–	1	20/20	–	30
31	(E) FOOD LINE COMPUTER	20	1	–	A			–	1	20	FOOD LINE LIGHTS	32
33	FOOD LINE LIGHTS	20	1	–		B		–	1	20	FREEZER BOX	34
35	SUB PANEL	100	3	–			C	–	2	30	DISPOSAL	36
37	–	–	–	–	A			–	–	–	–	38
39	–	–	–	–		B		–	2	30	CENTER REFRIGERATOR	40
41	–	–	–	–			C	–	–	–	–	42

RFP AND KITCHEN

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384–0563/FAX (918) 384–3188 AEGMAIL@AEGMEP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

EXISTING PANELBOARDS

DATE: 10.06.2022

SHEET NO.

E704

Z:\2022\TPS\Hale High School RFP\Dwgs\E704.dwg, 10/11/2022 4:09:01 PM, DawnSantee

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: 1ST FLR E HALL

(E) SWITCHBOARD 'MDP' SEC-1

VOLT: 480Y/277V, 3PH, 4 WIRE
AMPS: 2500 AMP, MCB
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE	KVA	PL	BRKR	DESCRIPTION	CKT
1	PANEL 'HDP'	400	3	–	A	–	–	–	–	
	–	–	–	–	B	–	–	–	–	2
	–	–	–	–	C	–	–	–	–	
3	PANEL 'RTUP1'	400	3	–	A	–	–	–	–	
	–	–	–	–	B	–	–	–	–	4
	–	–	–	–	C	–	–	–	–	
5	–	–	–	–	A	–	3	600	CHILLER #1	
	–	–	–	–	B	–	–	–	–	6
	–	–	–	–	C	–	–	–	–	
7	PANEL 'RTUP2'	400	3	–	A	–	–	–	–	
	–	–	–	–	B	–	–	–	–	8
	–	–	–	–	C	–	–	–	–	
9	–	–	–	–	A	–	3	600	CHILLER #2	
	–	–	–	–	B	–	–	–	–	10
	–	–	–	–	C	–	–	–	–	
11	PANEL 'RTUP3'	600	3	–	A	–	3	400	GYM RTU PANEL	
	–	–	–	–	B	–	–	–	–	12
	–	–	–	–	C	–	–	–	–	
13	CHILLED WATER PUMPS	50	3	–	A	–	3	20	HEATED WATER PUMPS	
	–	–	–	–	B	–	–	–	–	14
	–	–	–	–	C	–	–	–	–	

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: ROOF TOP

(E) PANELBOARD 'RTUP3'

VOLT: 480Y/277V, 3PH, 4 WIRE
AMPS: 600 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE	KVA	PL	BRKR	DESCRIPTION	CKT
1	RTU-5	40	3	–	A	–	3	40	RTU-10	2
3	–	–	–	–	B	–	–	–	–	4
5	–	–	–	–	C	–	–	–	–	6
7	RTU-6	40	3	–	A	–	3	40	RTU-11	8
9	–	–	–	–	B	–	–	–	–	10
11	–	–	–	–	C	–	–	–	–	12
13	RTU-7	40	3	–	A	–	3	40	RTU-12	14
15	–	–	–	–	B	–	–	–	–	16
17	–	–	–	–	C	–	–	–	–	18
19	RTU-8	40	3	–	A	–	3	20	RTU-13	20
21	–	–	–	–	B	–	–	–	–	22
23	–	–	–	–	C	–	–	–	–	24
25	RTU-9	40	3	–	A	–	3	20	RTU-14	26
27	–	–	–	–	B	–	–	–	–	28
29	–	–	–	–	C	–	–	–	–	30
31	MAU-3	40	3	–	A	–	3	20	MAU-5	32
33	–	–	–	–	B	–	–	–	–	34
35	–	–	–	–	C	–	–	–	–	36
37	BLANK	–	1	–	A	–	3	60	BOOSTER HEATER	38
39	BLANK	–	1	–	B	–	–	–	–	40
41	BLANK	–	1	–	C	–	–	–	–	42

SURFACE MOUNTED
GROUND BUS
NEMA 3R ENCLOSURE
LOCATION: ROOF TOP

(E) PANELBOARD 'RTUP1'

VOLT: 480Y/277V, 3PH, 4 WIRE
AMPS: 400 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE	KVA	PL	BRKR	DESCRIPTION	CKT
1	RTU-15	50	3	–	A	–	3	30	RTU-21	2
3	–	–	–	–	B	–	–	–	–	4
5	–	–	–	–	C	–	–	–	–	6
7	RTU-16	90	3	–	A	–	3	40	RTU-18	8
9	–	–	–	–	B	–	–	–	–	10
11	–	–	–	–	C	–	–	–	–	12
13	RTU-17	90	3	–	A	–	3	40	RTU-19	14
15	–	–	–	–	B	–	–	–	–	16
17	–	–	–	–	C	–	–	–	–	18
19	MAU-1	30	3	–	A	–	3	30	MAU-2	20
21	–	–	–	–	B	–	–	–	–	22
23	–	–	–	–	C	–	–	–	–	24
25	–	–	–	–	A	–	–	–	–	26
27	–	–	–	–	B	–	–	–	–	28
29	–	–	–	–	C	–	–	–	–	30
31	–	–	–	–	A	–	–	–	–	32
33	–	–	–	–	B	–	–	–	–	34
35	–	–	–	–	C	–	–	–	–	36
37	–	–	–	–	A	–	–	–	–	38
39	–	–	–	–	B	–	–	–	–	40
41	–	–	–	–	C	–	–	–	–	42

RECESSED MOUNTED
GROUND BUS
NEMA 1 ENCLOSURE
LOCATION: EXTERIOR ENCLOSURE

(E) PANELBOARD GYM RTU

VOLT: 480Y/277V, 3PH, 4 WIRE
AMPS: 400 AMP, MCB
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE	KVA	PL	BRKR	DESCRIPTION	CKT
1	GYM PANEL	80	3	–	A	–	3	80	GYM PANEL	2
3	–	–	–	–	B	–	–	–	–	4
5	–	–	–	–	C	–	–	–	–	6
7	GYM PANEL	80	3	–	A	–	3	80	GYM PANEL	8
9	–	–	–	–	B	–	–	–	–	10
11	–	–	–	–	C	–	–	–	–	12
13	BLANK	–	1	–	A	–	1	–	BLANK	14
15	BLANK	–	1	–	B	–	1	–	BLANK	16
17	BLANK	–	1	–	C	–	1	–	BLANK	18
19	BLANK	–	1	–	A	–	1	–	BLANK	20
21	BLANK	–	1	–	B	–	1	–	BLANK	22
23	BLANK	–	1	–	C	–	1	–	BLANK	24
25	BLANK	–	1	–	A	–	1	–	BLANK	26
27	BLANK	–	1	–	B	–	1	–	BLANK	28
29	BLANK	–	1	–	C	–	1	–	BLANK	30
31	BLANK	–	1	–	A	–	1	–	BLANK	32
33	BLANK	–	1	–	B	–	1	–	BLANK	34
35	BLANK	–	1	–	C	–	1	–	BLANK	36
37	BLANK	–	1	–	A	–	1	–	BLANK	38
39	BLANK	–	1	–	B	–	1	–	BLANK	40
41	BLANK	–	1	–	C	–	1	–	BLANK	42

SURFACE MOUNTED
GROUND BUS
NEMA 3R ENCLOSURE
LOCATION: ROOF TOP

(E) PANELBOARD 'RTUP2'

VOLT: 480Y/277V, 3PH, 4 WIRE
AMPS: 400 AMP, MLO
AIC: (E)

CKT	DESCRIPTION	BRKR	PL	KVA	PHASE	KVA	PL	BRKR	DESCRIPTION	CKT
1	BLANK	–	1	–	A	–	3	40	RTU-1	2
3	BLANK	–	1	–	B	–	–	–	–	4
5	BLANK	–	1	–	C	–	–	–	–	6
7	EXHAUST FANS 2A AND 2B	15	3	–	A	–	3	40	RTU-2	8
9	–	–	–	–	B	–	–	–	–	10
11	–	–	–	–	C	–	–	–	–	12
13	RTU-20	20	3	–	A	–	3	30	RTU-3	14
15	–	–	–	–	B	–	–	–	–	16
17	–	–	–	–	C	–	–	–	–	18
19	MAU-2	40	3	–	A	–	3	50	RTU-4	20
21	–	–	–	–	B	–	–	–	–	22
23	–	–	–	–	C	–	–	–	–	24
25	–	–	–	–	A	–	–	–	–	26
27	–	–	–	–	B	–	–	–	–	28
29	–	–	–	–	C	–	–	–	–	30
31	–	–	–	–	A	–	–	–	–	32
33	–	–	–	–	B	–	–	–	–	34
35	–	–	–	–	C	–	–	–	–	36
37	–	–	–	–	A	–	–	–	–	38
39	–	–	–	–	B	–	–	–	–	40
41	–	–	–	–	C	–	–	–	–	42

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@NET.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20262
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

EXISTING PANELBOARDS

DATE: 10.06.2022

SHEET NO.

E705

Z:\2022\TPS\Hale High School RFP\Dwgs\E705.dwg, 10/11/2022 4:09:02 PM, DawnSantee

GENERAL NOTE:
ALL WORK IN KITCHEN AND CAFETERIA SHALL BE COORDINATED WITH KITCHEN REMODEL THAT IS CONCURRENT WITH HVAC & ELECTRICAL UPGRADE THROUGH ANOTHER CONTRACT WITH TPS, DESIGNED BY KKT AND CONSTRUCTED BY CROSSLAND.

KEYNOTES: (X)

1. REMOVE EXISTING ROOF TOP UNIT AND ALL ASSOCIATED DUCTWORK, CONCENTRIC DIFFUSERS, SUPPORTS AND CONTROLS. REMOVE CURB AND REPAIR ROOF DECK AND INSULATION AS REQUIRED TO MAINTAIN ROOF WARRANTY.

2. REMOVE ALL COOK LINE HOODS, SUPPORTS AND ALL ASSOCIATED DUCTWORK AND CONTROLS. REMOVE ROOF MOUNTED EXHAUST FAN AND CURB. REPAIR ROOF DECK AND INSULATION AS REQUIRED TO MAINTAIN ROOF WARRANTY.

3. REMOVE ALL CEILING TILES AND GRID.

4. SECURE ALL EXISTING FIRE PROTECTION HEADS AS NEEDED WHILE CEILINGS ARE REMOVED.

1 SECOND LEVEL ENLARGED KITCHEN HVAC PLAN-DEMO
Scale: 1/4" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@NET.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL ENLARGED KITCHEN HVAC PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MD401

Z:\2022\TPS\Hale High School RFP\Dwg\MD401.dwg, 10/11/2022 4:13:40 PM, DawnSantee

1 GROUND LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE ALL CEILING TILES IN AREAS OF WORK.
2. PROVIDE TEMPORARY SUPPORTS FOR ALL FIRE PROTECTION HEADS IN AREAS OF WORK.
3. REMOVE EXISTING WALLS.
4. REMOVE PLUMBING FIXTURES IN GIRLS TOILET.
5. REMOVE LOW CEILING FROM VO-TECH SPACE.
6. REMOVE ALL DUCTWORK SERVING VO-TECH SPACE BACK TO AIR HANDLER. RE: MEPD107 FOR LOCATION OF AIR HANDLER ON MECHANICAL PLATFORM.
7. CEILING TO REMAIN THIS SPACE. NO WORK.
8. REMOVE FAN COIL, ALL ASSOCIATED CONTROLS SUPPORTS AND HYDRONIC PIPING.
9. NO WORK TO RTU-20 AND RTU-21 DUCTWORK.
10. CAP ALL FLOOR DRAINS IN SPACE. CAP ALL WATER PIPE BEHIND WALLS. REPAIR WALLS TO MATCH EXISTING.
11. REMOVE ALL ABANDONED DUCTWORK FROM REMOVED MAKE UP AIR UNITS. (TYPICAL)

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND REPLACE LIGHTING USING EXISTING SWITCHES AND NEW LIGHTS. RE: E101.

E2. REMOVE AND REPLACE EXISTING LIGHT FIXTURES IN WORKING ORDER. REPLACE FIXTURES NOT WORKING WITH MATCHING.

E3. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES AND STORE IN OWNER DIRECTED AREA FOR USE IN NEW WORK.

E4. TRACE HVAC UNIT TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E5. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@AEGMAIL.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

GROUND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD101

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD101.dwg, 10/11/2022 4:11:21 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE DISCONNECTING MEANS AND TRACE HVAC EQUIPMENT CIRCUIT BACK TO SOURCE AND REMOVE COMPLETELY. UPDATE SWITCHBOARD/PANEL INDEXES.

E2. REMOVE ROOM LIGHT FIXTURES AND REPLACE WITH NEW TPS APPROVED FIXTURE.

KEYNOTES: (X)

1. REMOVE EXISTING HYDRONIC PUMPS, ALL ASSOCIATED PIPING, SUPPORTS AND CONTROLS FROM BOILER ROOM. RETURN PUMPS TO OWNER. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

2. REMOVE EXISTING EXPANSION TANKS ALL ASSOCIATED PIPING, SUPPORTS AND CONTROLS.

3. REMOVE HYDRONIC BOILERS AND RETURN TO OWNER. REMOVE ALL ASSOCIATED PIPING, SUPPORTS AND CONTROLS. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

4. REMOVE ALL HYDRONIC PIPING FROM EXISTING ABANDONED BOILERS. REMOVE ALL FLUE PIPING AND SUPPORTS. CAP MAIN FLUE DISCHARGE DUCTWORK FROM REMOVED BRANCH FLUE PIPING. COORDINATE WITH ELECTRICAL FOR REMOVAL OF ALL POWER.

5. EXISTING DOMESTIC WATER HEATER TO REMAIN IN SURFACE DURING CONSTRUCTION.

1 GROUND LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEG@AEGINEER.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

GROUND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD102

P:\2022\TPS\Hale High School RFP\Dwgs\MEPD102.dwg, 10/11/2022 4:11:25 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

E6. REPLACE PANEL INTERIORS AND BREAKER WITH COMMERCIAL RATED AND LISTED MATCHING CAPACITY.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. REMOVE CONDENSATE PIPE THRU WALL. INSTALL WATER-PROOF CAULKING IN SPACE OF REMOVED PIPE. REPAIR WALL AS DIRECTED BY OWNERS REPRESENTATIVE.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. REMOVE AIR HANDLER, ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING. INSTALL TRAP GUARD IN FLOOR DRAIN. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

7. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

1 FIRST LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0564/FAX (918) 384-3188 AEGMAIL@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD103

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD103.dwg, 10/11/2022 4:11:28 PM, DawnSantee

1 FIRST LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

3. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

4. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

5. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

6. EXISTING EXHAUST AND CEILING HEATERS IN TOILETS SHALL REMAIN ACTIVE DURING CONSTRUCTION.

7. PREPARE TO REPIPE ALL WATER, GAS AND ELECTRIC IN SCIENCE ROOM TO INCLUDE EMERGENCY SHUT-OFF AND INSTALLATION OF EMERGENCY SHUT-OFF SYSTEM.

8. REMOVE EXISTING PUMP HOUSE HEATER COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

9. REMOVE ALL EXISTING SINKS FROM COUNTERTOPS. REMOVE BRANCH WATER LINES BACK TO MAIN AND CAP AT MAIN. REMOVE BRANCH WASTE AND VENT BACK TO MAIN AND CAP AT MAIN.

10. REMOVE EMERGENCY SHOWER AND RETURN TO OWNER. REMOVE WATER PIPE BACK TO MAIN AND CAP AT MAIN. INSTALL TRAP GUARD IN FLOOR DRAIN.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERS
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEGMAIL.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER GAYLE D. GWINUP 15478 OKLAHOMA 10/6/2022

REGISTERED PROFESSIONAL ENGINEER THOMAS EDWARD McKENNA 20222 OKLAHOMA 10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD104

G:\2022\TPS\Hale High School\RFP\Dwgs\MEPD104.dwg, 10/11/2022 4:11:31 PM, DawnSantee

1 FIRST LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. REMOVE CONDENSATE PIPE THRU WALL. INSTALL WATER-PROOF CAULKING IN SPACE OF REMOVED PIPE. REPAIR WALL AS DIRECTED BY OWNERS REPRESENTATIVE.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. REMOVE AIR HANDLER, ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR. INSTALL TRAP GUARD IN FLOOR DRAIN RECEIVING CONDENSATE PIPE.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

7. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

8. EXISTING EXHAUST SYSTEM IN TOILETS SHALL REMAIN ACTIVE THROUGHOUT CONSTRUCTION.

9. REMOVE ALL EXISTING DUCTWORK FROM AIR HANDLERS TO BE REMOVED. REPAIR ALL WALL OPENINGS FROM REMOVED DUCTWORK.

10. REMOVE OUTDOOR AIR INTAKE DUCTWORK. INSTALL INSULATED SHEET METAL PANEL ON INSIDE FACE OF LOUVER. SEAL INSULATED PANEL TO LOUVER.

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0564/FAX (918) 384-3188 AEGRUP@AEGRUP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD105

Z:\2022\TPS\Hale High School\RFP\Dwg\MEPD105.dwg, 10/11/2022 4:11:34 PM, DawnSantee

1 FIRST LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. REMOVE OUTDOOR AIR DUCTWORK FROM LOUVER. INSTALL INSULATED SHEET METAL PANEL ON INSIDE FACE OF LOUVER. PROVIDE MINIMUM 2 INCH, 3 POUND DENSITY INSULATION ON PANEL. SEAL PANEL TO LOUVER AIR TIGHT.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. REMOVE AIR HANDLER, ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING. INSTALL TRAP GUARD IN FLOOR DRAIN. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

7. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

8. REMOVE WALLS.

9. COORDINATE ALL DEMOLITION OF WALLS AND WINDOWS IN ROOM 122 & 123 WITH SECURED ENTRY PROJECT BY GH2.

10. REMOVE GRILLES FROM WALLS AND INFILL WALLS AS DIRECTED BY OWNERS REPRESENTATIVES.

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERS
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEGMEP.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER GAYLE D. GWINUP 15478 OKLAHOMA 10/6/2022

REGISTERED PROFESSIONAL ENGINEER THOMAS EDWARD McKENNA 20222 OKLAHOMA 10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD106

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD106.dwg, 10/11/2022 4:11:37 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

KEYNOTES: (X)

1. REMOVE ALL CEILING TILE AND GRID IN AREAS OF WORK.

2. PROVIDE TEMPORARY SUPPORT FOR ALL FIRE PROTECTION HEADS FROM REMOVED CEILINGS.

3. REMOVE ALL DUCTWORK, GRILLES AND SUPPORTS BACK TO AIR HANDLER LOCATED ON MECHANICAL EQUIPMENT PLATFORM.

4. REMOVE ALL HYDRONIC PIPING FROM AIR HANDLERS BACK TO SOURCE.

5. REMOVE AIR HANDLER AND ALL ASSOCIATED SUPPORTS AND CONTROLS. INSTALL TRAP GUARD IN FLOOR DRAIN RECEIVING CONDENSATE. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

6. EXISTING DUCTWORK SERVING AEROBICS/WEIGHT ROOM TO REMAIN.

7. REMOVE EXISTING CHILLERS AND RETURN TO OWNER. REMOVE ALL ASSOCIATED PIPING, SUPPORTS AND CONTROLS. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

1 FIRST LEVEL PARTIAL MEP PLAN-DEMO
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK, 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEGINFO.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

FIRST LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD107

E:\2022\TPS\Hale High School RFP\Dwg\MEPD107.dwg, 10/11/2022 4:11:40 PM, DawnSantee

1 SECOND LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

E6. REMOVE ABANDONED PANEL USED AS PULLBOX. TRACE CIRCUITS AND RELOCATE TO NEAREST PANEL.

E7. REPLACE PANEL INTERIORS AND BREAKER WITH COMMERCIAL RATED AND LISTED MATCHING CAPACITY.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. EXHAUST SYSTEMS IN TOILETS SHALL REMAIN IN SERVICE DURING AND THRU CONSTRUCTION.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITES OF CEILINGS ABOVE CEILNGS PRIOR TO BID.

7. REMOVE ABANDONED EXHAUST SYSTEM IN ROOM. REMOVE ALL ASSOCIATED SUPPORTS, CONTROLS AND DUCT.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0564/FAX (918) 384-3188 AEGMAIL@AEG-LLC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER GAYLE D. GWINUP 15478 OKLAHOMA 10/6/2022

REGISTERED PROFESSIONAL ENGINEER THOMAS EDWARD McKENNA 20222 OKLAHOMA 10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

AREA OF WORK

KEY PLAN

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD201

P:\2022\TPS\Hale High School\RFP\Dwgs\MEPD201.dwg, 10/11/2022 4:11:43 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. EXHAUST SYSTEMS IN TOILETS SHALL REMAIN IN SERVICE DURING AND THRU CONSTRUCTION.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

7. EXISTING EXHAUST HOOD, FAN AND MAKE UP AIR UNIT ALL ASSOCIATED DUCTWORK, POWER AND GRILLES TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION.

2 SECOND LEVEL PARTIAL MEP PLAN-DEMO
Scale: 1/8" = 1'-0"

NORTH

1 SECOND LEVEL PARTIAL MEP PLAN-DEMO
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@NET.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE
HIGH SCHOOL
RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL MEP PLANS-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD202

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD202.dwg, 10/11/2022 4:11:47 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. EXHAUST SYSTEMS IN TOILETS SHALL REMAIN IN SERVICE DURING AND THRU CONSTRUCTION.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

7. REMOVE ROOF MOUNTED MAKE UP AIR UNIT, CONTROLS AND CURB. REPAIR ROOF OPENING AND INSULATION AS REQUIRED TO MAINTAIN ROOF WARRANTY. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

1 SECOND LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEG@AEGINFO.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER GAYLE D. GWINUP 15478 OKLAHOMA

10/6/2022

REGISTERED PROFESSIONAL ENGINEER THOMAS EDWARD McKENNA 20222 OKLAHOMA

10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD203

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD203.dwg, 10/11/2022 4:11:50 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. EXHAUST SYSTEMS IN TOILETS SHALL REMAIN IN SERVICE DURING AND THRU CONSTRUCTION.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

1 SECOND LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEG-TULSA.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER GAYLE D. GWINUP 15478 OKLAHOMA 10/6/2022

REGISTERED PROFESSIONAL ENGINEER THOMAS EDWARD McKENNA 20222 OKLAHOMA 10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD204

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD204.dwg, 10/11/2022 4:11:56 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

KEYNOTES: (X)

1. EXHAUST SYSTEMS IN TOILETS SHALL REMAIN IN SERVICE DURING AND THRU CONSTRUCTION.

2. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

3. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

4. REMOVE ALL DUCTWORK, SUPPORTS, CONTROLS AND GRILLES BACK TO AIR HANDLERS.

5. DUCTWORK DOWN TO 1ST FLOOR AIR HANDLER.

6. DUCTWORK UP TO 3RD FLOOR AIR HANDLER. REPAIR HOLES IN FLOORS FROM REMOVAL OF DUCTWORK AS DIRECTED BY OWNER'S REPRESENTATIVE.

1 SECOND LEVEL PARTIAL MEP PLAN-DEMO
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGINFO@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD205

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD205.dwg, 10/11/2022 4:11:59 PM, DawnSantee

1 SECOND LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE ROOF TOP UNIT, KEEP CURB INTACT. REMOVE DUCTWORK AND CONCENTRIC DIFFUSER, REMOVE CONTROL SYSTEM. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. PREPARE AREA FOR INSTALLATION OF ROOF TOP UNIT IN NEW WORK.

2. INSTALL INSULATED SHEET METAL PANEL ON INSIDE FACE OF LOUVER.

3. EXHAUST SYSTEM SHALL REMAIN WORKING THROUGHOUT CONSTRUCTION.

4. REMOVE WALL MOUNTED GRILLES. REPAIR WALL TO MATCH EXISTING OR AS DIRECTED BY OWNER.

5. REMOVE ALL SUPPLY AND RETURN DUCTWORK FROM SPACE BACK TO AIR HANDLER. REMOVE ALL ASSOCIATED SUPPORTS AND CONTROLS.

6. REMOVE HYDRONIC FAN COIL, ALL ASSOCIATED SUPPORTS, HANGERS, CONTROLS AND ALL HYDRONIC PIPING.

7. REMOVE WINDOW AC UNIT FROM WALL AND REPAIR WALL AS DIRECTED BY OWNER.

8. REMOVE CEILING IN OFFICE SPACE.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E2. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@AEG-LLC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD206

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD206.dwg, 10/11/2022 4:12:02 PM, DawnSantee

1 SECOND LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE EXISTING ROOF TOP UNIT AND CONCENTRIC DIFFUSER. REMOVE ALL ASSOCIATED CONTROLS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR REMOVAL OF POWER AND PLUMBING CONTRACTOR FOR REMOVAL OF GAS AND CONDENSATE PIPING. PREPARE AREA FOR INSTALLATION OF ROOF TOP UNIT IN NEW WORK.

2. REMOVE EXISTING ROOF TOP UNIT AND ALL ASSOCIATED CONTROLS. CURB SHALL REMAIN INTACT. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. COORDINATE WITH PLUMBING FOR REMOVAL OF GAS. PREPARE AREA FOR INSTALLATION OF ROOF TOP UNITS IN NEW WORK.

3. REMOVE ABANDONED AIR HANDLER ALL ASSOCIATED SUPPORTS, CONTROLS AND HYDRONIC PIPING. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E2. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERS
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGRUN@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD207

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD207.dwg, 10/11/2022 4:12:26 PM, DawnSantee

1 SECOND LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE EXISTING FOR COIL UNIT, ALL ASSOCIATED DUCTWORK, HANGERS, CONTROLS AND ALL HYDRONIC PIPING.

2. REMOVE ROOF TOP UNIT, CURB, ALL ASSOCIATED CONTROLS, DUCTWORK, SUPPORTS AND GRILLES. REPAIR ROOF OPENING AND INSULATION AS REQUIRED TO MAINTAIN ROOF WARRANTY. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

3. REMOVE CEILING GRID AND TILES THROUGHOUT AREAS OF WORK.

4. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY SUPPORT OF ALL SPRINKLER HEADS FROM REMOVED CEILING.

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES AND STORE IN OWNER DIRECTED AREA FOR USE IN NEW WORK.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE ELECTRICAL CONNECTIONS TO KITCHEN EXHAUST HOOD BACK TO SOURCE.

E6. PANELS TO BE DEMOLISHED.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERS
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEG.COM
CA 3479 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

SECOND LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD208

E:\2022\TPS\Hale High School\RFP\Dwgs\MEPD208.dwg, 10/11/2022 4:12:09 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

E6. REPLACE PANEL INTERIORS AND BREAKER WITH COMMERCIAL RATED AND LISTED MATCHING CAPACITY.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. EXHAUST SYSTEMS IN TOILETS SHALL REMAIN IN SERVICE DURING AND THRU CONSTRUCTION.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

7. REMOVE MAKE UP AIR UNIT FROM ROOF.

1 THIRD LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER GAYLE D. GWINUP 15478 OKLAHOMA 10/6/2022

REGISTERED PROFESSIONAL ENGINEER THOMAS EDWARD McKENNA 20222 OKLAHOMA 10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD301

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD301.dwg, 10/11/2022 4:12:12 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

KEYNOTES: (X)

1. REMOVE ALL CEILING GRID AND TILES FROM SPACE BEING REMODELED.

2. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR SUPPORT OF ALL HEADS FROM REMOVED CEILING.

3. REMOVE ALL HYDRONIC PIPING AND SUPPORTS FROM FAN COILS BACK TO SOURCE.

4. REMOVE FAN COILS FROM SPACE, ALL ASSOCIATED DUCTWORK, SUPPORTS AND CONTROLS.

5. REMOVE ROOF TOP UNIT ALL ASSOCIATED DUCTWORK, SUPPORTS AND CONTROLS. INSTALL INSULATED SHEET METAL CAP ON CURB. INSULATION SHALL BE A MINIMUM 2 INCH, 3 POUND DENSITY. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

6. REMOVE ALL OUTDOOR AIR FROM SPACE. INSTALL SHEET METAL PANEL ON BOTH SIDES OF WALL.

7. REMOVE ROOF TOP UNIT ALL ASSOCIATED DUCTWORK, SUPPORTS AND CONTROLS. REMOVE CURB AND PREPARE AREA FOR NEW RTU. MODIFY ROOF OPENINGS AS NEEDED FOR NEW UNIT.

1 THIRD LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@NET.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL MEP PLANS-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD302

E:\2022\TPS\Hale High School RFP\Dwg\MEPD302.dwg, 10/11/2022 4:12:15 PM, DawnSantee

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. EXHAUST SYSTEMS IN TOILETS SHALL REMAIN IN SERVICE DURING AND THRU CONSTRUCTION.

3. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

4. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

5. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

6. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITES OF CEILINGS ABOVE CEILNGS PRIOR TO BID.

7. REMOVE ABANDONED EXHAUST SYSTEM IN ROOM. REMOVE ALL ASSOCIATED SUPPORTS, CONTROLS AND DUCT.

8. REMOVE ROOF MOUNTED PACKAGE UNIT AND CURB. REMOVE CONTROL SYSTEM, GAS PIPING AND COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. EXISTING DUCTWORK SHALL REMAIN. PREPARE AREA FOR INSTALLATION OF ROOF TOP UNIT IN NEW WORK.

9. REMOVE PACKAGED UNIT FROM ROOF, MAINTAIN ROOF CURB INTACT. REMOVE CONTROL SYSTEM. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER AND PLUMBER FOR REMOVAL OF GAS PIPING. PROVIDE INSULATED SHEET METAL PANEL OVER ROOF CURB. PANEL SHALL HAVE 2 INCH, 3 POUND DENSITY INSULATION. SLOPE PANEL TO ONE SIDE FOR WATER RUN-OFF. EXISTING DUCTWORK SHALL REMAIN INTACT. PREPARE AREA FOR INSTALLATION OF ROOF TOP UNITS IN NEW WORK.

10. REMOVE AIR HANDLER, ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPING AND ALL BRANCH HYDRONIC PIPING. COORDINATE REMOVAL OF POWER WITH ELECTRICAL CONTRACTOR. INSTALL TRAP GUARD IN FLOOR DRAIN RECEIVING CONDENSATE. REMOVE ALL OUTDOOR AIR DUCTWORK AND CAP INTAKE HOOD WITH INSULATED SHEET METAL PANEL. SLOPE PANEL TO ONE SIDE FOR WATER RUN-OFF.

11. REMOVE ROOF MOUNTED MAKE UP AIR UNIT. REMOVE CURB, COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER AND PLUMBER FOR REMOVAL OF GAS PIPING. PREPARE AREA FOR INSTALLATION OF NEW ROOF TOP UNIT AT EXISTING ROOF TOP OPENINGS.

1 THIRD LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER GAYLE D. GWINUP 15478 OKLAHOMA 10/6/2022

REGISTERED PROFESSIONAL ENGINEER THOMAS EDWARD McKENNA 20222 OKLAHOMA 10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD303

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD303.dwg, 10/11/2022 4:12:17 PM, DawnSantee

1 THIRD LEVEL PARTIAL MEP PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. REMOVE ALL OUTDOOR AIR DUCTWORK FROM ROOF MOUNTED MAU THROUGHOUT AREAS OF WORK. REPAIR ALL FLOOR PENETRATIONS AS DIRECTED BY THE OWNERS REPRESENTATIVE. REPAIR ALL WALL PENETRATIONS FROM REMOVED DUCTWORK. INSTALL INSULATED SHEET METAL OVER HOLES ON BOTH SIDES OF WALL.

3. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

4. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

5. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

6. REMOVE ROOF MOUNTED MAKE UP AIR UNIT, CONTROLS AND CURB. REPAIR ROOF OPENING AND INSULATION AS REQUIRED TO MAINTAIN ROOF WARRANTY. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

7. REMOVE WINDOW UNIT AND RETURN TO OWNER.

8. REMOVE ROOF TOP UNIT, CURB, ALL ASSOCIATED CONTROLS, DUCTWORK, SUPPORTS AND GRILLES. REPAIR ROOF OPENING AND INSULATION AS REQUIRED TO MAINTAIN ROOF WARRANTY. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

9. REMOVE AIR HANDLER UNIT, CONTROLS ALL ASSOCIATED DUCTWORK. INSTALL INSULATED SHEET METAL CAP ON CURB. PROVIDE MINIMUM 2 INCH, 3 POUND DENSITY INSULATION ON CAP. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE AND STORE EXISTING LIGHT FIXTURES IN WORKING ORDER AT OWNER APPROVED LOCATION.

E2. REMOVE AND STORE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK. REMOVE CLASSROOM DATA CABLING BACK TO SOURCE IDF/MDF LOCATIONS. REMOVE ALL SURFACE MOUNTED POWER/DATA OUTLETS AND RACEWAYS FROM WALLS COMPLETELY FOR NEW PAINT.

E3. TRACE HVAC UNIT ELECTRICAL TO SOURCE AND REMOVE COMPLETELY. UPDATE PANEL INDEX.

E4. REMOVE EXISTING T-STAT/SENSORS AND CONDUCTORS BACK TO SOURCE PER MECHANICAL DRAWINGS.

E5. REMOVE CORRIDOR LIGHT FIXTURES, POWER PACKS AND SENSORS. STORE POWER PACKS AND SENSORS TO BE USED IN NEW WORK. REMOVE EXISTING CEILING GRID LOW-VOLTAGE DEVICES/APPLIANCES AND STORE FOR USE IN NEW WORK.

E6. REPLACE EXISTING HIGH-BAY FIXTURES WITH NEW TPS STANDARD LED HIGH-BAY.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERS
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEGENGINEERS.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD304

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD304.dwg, 10/11/2022 4:12:20 PM, DawnSanice

ELECTRICAL KEYNOTES: (EX)

E1. REMOVE ELECTRICAL DISCONNECTS AND DAISY-CHAINED BRANCH CIRCUIT BACK TO SOURCE. TURN BREAKER "OFF" AND UPDATE PANEL INDEXES.

E2. REMOVE DISCONNECTING MEANS AND BRANCH CIRCUIT BACK TO SOURCE.

E3. REMOVE LOW-VOLTAGE CONTROL CABLING/CONDUCTORS.

E4. REMOVE CORRIDOR LIGHT FIXTURES AND DISPOSE PER TPS REQUIREMENTS.

E5. REMOVE ROOM LIGHT FIXTURES AND REPLACE WITH NEW TPS APPROVED FIXTURE.

E6. REMOVE EXISTING 600A SWITCHBOARD AND ASSOCIATED FEEDERS SERVING CHILLER AND CHILLER PUMPS.

E7. REMOVE EXISTING CLASSROOM LED FIXTURES AND SENSORS AND STORE PER TPS REQUIREMENTS AND LOCATION.

KEYNOTES: (X)

1. REMOVE ALL HYDRONIC FAN COILS FROM AREAS OF WORK. REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, CONTROLS, CONDENSATE PIPE AND ALL BRANCH HYDRONIC PIPING.

2. COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR TEMPORARY REMOVAL OF SPRINKLER HEADS IN ALL AREAS OF CONSTRUCTION.

3. REMOVE ALL HYDRONIC PIPING BACK TO SOURCE. REMOVE ALL SUPPORTS AND REPAIR ALL OPENING IN FLOORS AND WALLS FROM PIPING PENETRATIONS AS DIRECTED BY OWNER'S REPRESENTATIVE.

4. REMOVE ALL CEILING GRID AND TILES IN AREAS OF WORK. REMOVE ANY CEILING ABOVE CEILING. CONTRACTOR SHALL VERIFY EXACT QUANTITIES OF CEILINGS ABOVE CEILINGS PRIOR TO BID.

5. REMOVE AIR HANDLER UNIT, CONTROLS ALL ASSOCIATED DUCTWORK. INSTALL INSULATED SHEET METAL CAP ON CURB. PROVIDE MINIMUM 2 INCH, 3 POUND DENSITY INSULATION ON CAP. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

1 THIRD LEVEL PARTIAL MEP PLAN-DEMO
Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEGINC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

THIRD LEVEL PARTIAL MEP PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD305

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD305.dwg, 10/11/2022 4:12:23 PM, DawnSantee

1 PARTIAL MEP ROOF PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE EXISTING MAKE UP AIR UNIT FROM CURB. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. COORDINATE WITH PLUMBER FOR REMOVAL OF GAS PIPING. INSTALL INSULATED SHEET METAL CAP OVER CURB. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. INSTALL MINIMUM 2 INCH, 3 POUND DENSITY INSULATION ON CAP.

2. REMOVE ROOF TOP UNIT, KEEP CURB INTACT. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER AND PLUMBER FOR REMOVAL OF GAS AND CONDENSATE PIPING.

3. REMOVE ALL GAS PIPE AND SUPPORTS FROM EQUIPMENT AND ROOF BACK TO GAS METER.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE CIRCUIT TO SOURCE. REMOVE CONDUCTORS, RACEWAY, AND SUPPORTS BACK TO SOURCE. SWITCH O.C.P.D. TO "OFF" AND UPDATE INDEX TO "SPARE".

E2. EXISTING EQUIPMENT TO REMAIN. TRACE CIRCUIT TO SOURCE AND VERIFY INDEX PROPERLY MARKED. UPDATE INDEX AS REQUIRED.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@NET.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL MEP ROOF PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD401

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD401.dwg, 10/11/2022 4:12:28 PM, DawnSantee

1 PARTIAL MEP ROOF PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE EXISTING MAKE UP AIR UNIT FROM CURB. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. COORDINATE WITH PLUMBER FOR REMOVAL OF GAS PIPING. INSTALL INSULATED SHEET METAL CAP OVER CURB. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. INSTALL MINIMUM 2 INCH, 3 POUND DENSITY INSULATION ON CAP.

2. REMOVE ALL GAS PIPE AND SUPPORTS FROM EQUIPMENT AND ROOF BACK TO GAS METER.

3. REMOVE WINDOW AC UNIT AND RETURN TO OWNER.

4. EXISTING EQUIPMENT TO REMAIN IN SERVICE THROUGHOUT CONSTRUCTION.

5. CAP EXISTING GAS PIPE SERVING CULINARY KITCHEN AND MAKE UP AIR UNIT AT THIS APPROXIMATE LOCATION.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE CIRCUIT TO SOURCE. REMOVE CONDUCTORS, RACEWAY, AND SUPPORTS BACK TO SOURCE. SWITCH O.C.P.D. TO "OFF" AND UPDATE INDEX TO "SPARE".

E2. EXISTING EQUIPMENT TO REMAIN. TRACE CIRCUIT TO SOURCE AND VERIFY INDEX PROPERLY MARKED. UPDATE INDEX AS REQUIRED.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL MEP ROOF PLANS-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD402

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD402.dwg, 10/11/2022 4:12:32 PM, DawnSantee

1 PARTIAL MEP ROOF PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE EXISTING MAKE UP AIR UNIT FROM CURB. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. COORDINATE WITH PLUMBER FOR REMOVAL OF GAS PIPING. INSTALL INSULATED SHEET METAL CAP OVER CURB. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. INSTALL MINIMUM 2 INCH, 3 POUND DENSITY INSULATION ON CAP.

2. REMOVE ALL GAS PIPE AND SUPPORTS FROM EQUIPMENT AND ROOF BACK TO GAS METER.

3. REMOVE EXISTING ROOF TOP UNIT AND CURB. PREPARE AREA FOR INSTALLATION OF ROOF TOP UNIT AND CURB IN NEW WORK. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

4. EXISTING EQUIPMENT TO REMAIN IN SERVICE THROUGHOUT PROJECT.

5. REMOVE ROOF TOP UNIT AND INSTALL CAP OVER CURB. CAP SHALL HAVE A MINIMUM 2 INCH 3 POUND DENSITY INSULATION. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. PREPARE AREA FOR INSTALLATION OF NEW DUCTWORK FROM ROOF TOP UNIT TO CONNECT TO EXISTING DUCTWORK.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE CIRCUIT TO SOURCE. REMOVE CONDUCTORS, RACEWAY, AND SUPPORTS BACK TO SOURCE. SWITCH O.C.P.D. TO "OFF" AND UPDATE INDEX TO "SPARE".

E2. EXISTING EQUIPMENT TO REMAIN. TRACE CIRCUIT TO SOURCE AND VERIFY INDEX PROPERLY MARKED. UPDATE INDEX AS REQUIRED.

E3. EXISTING ROOF PANEL TO BE REMOVED.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@AEGMAIL.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL MEP ROOF PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD403

Z:\2022\TPS\Hale High School RFP\Dwgs\MEPD403.dwg, 10/11/2022 4:12:35 PM, DawnSantee

KEYNOTES: (X)

1. REMOVE ROOF TOP UNIT AND CAP CURB. CAP SHALL HAVE A MINIMUM OF 2 INCH, 3 POUND DENSITY INSULATION. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

2. REMOVE GAS PIPING AND ALL SUPPORTS FROM UNIT BACK TO METER.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE CIRCUIT TO SOURCE. REMOVE CONDUCTORS, RACEWAY, AND SUPPORTS BACK TO SOURCE. SWITCH O.C.P.D. TO "OFF" AND UPDATE INDEX TO "SPARE".

1 PARTIAL MEP ROOF PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERS
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3189 AEGMAIL@AEG-LLC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER GAYLE D. GWINUP 15478 OKLAHOMA 10/6/2022

REGISTERED PROFESSIONAL ENGINEER THOMAS EDWARD McKENNA 20222 OKLAHOMA 10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL MEP ROOF PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD404

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD404.dwg, 10/11/2022 4:12:38 PM, DawnSantee

KEYNOTES: (X)

1. REMOVE EXISTING ROOF TOP UNIT AND KEEP CURB INTACT. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. PREPARE CURB FOR ROOF TOP UNIT IN NEW WORK.

2. REMOVE ALL GAS PIPE AND SUPPORTS FROM EQUIPMENT TO GAS METER.

3. EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE CIRCUIT TO SOURCE. REMOVE CONDUCTORS, RACEWAY, AND SUPPORTS BACK TO SOURCE. SWITCH O.C.P.D. TO "OFF" AND UPDATE INDEX TO "SPARE".

E2. EXISTING EQUIPMENT TO REMAIN. TRACE CIRCUIT TO SOURCE AND VERIFY INDEX PROPERLY MARKED. UPDATE INDEX AS REQUIRED.

E3. EXISTING PANEL TO REMAIN FOR USE IN NEW WORK.

E4. EXISTING ROOF PANEL TO BE REMOVED.

1 PARTIAL MEP ROOF PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEG-OK.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL MEP ROOF PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD405

Z:\2022\TPS\Hale High School RFP\Dwgs\MEPD405.dwg, 10/11/2022 4:12:40 PM, DawnSantee

KEYNOTES: (X)

1. REMOVE EXISTING ROOF TOP UNIT, KEEP CURB INTACT COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. PREPARE AREA FOR INSTALLATION OF ROOF TOP UNIT IN NEW WORK.

2. REMOVE ALL GAS PIPE AND SUPPORTS FROM EQUIPMENT TO METER.

3. COORDINATE WITH GAS SERVICE PROVIDER FOR RELOCATION OF GAS METER IN NEW WORK.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE CIRCUIT TO SOURCE. REMOVE CONDUCTORS, RACEWAY, AND SUPPORTS BACK TO SOURCE. SWITCH O.C.P.D. TO "OFF" AND UPDATE INDEX TO "SPARE".

1 PARTIAL MEP ROOF PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ELECTRICAL PLUMBING
1401 SOUTH DENVER STREET, SUITE A, TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGINFO@AEG.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL MEP ROOF PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD406

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD406.dwg, 10/11/2022 4:12:45 PM, DawnSantee

2 PARTIAL MEP ROOF PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

1 PARTIAL MEP ROOF PLAN-DEMO

Scale: 1/8" = 1'-0"

NORTH

KEYNOTES: (X)

1. REMOVE EXISTING ROOF TOP UNIT, KEEP CURB INTACT. PREPARE AREA FOR INSTALLATION OF ROOF TOP UNIT IN NEW WORK. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

2. REMOVE ROOF TOP UNIT AND CAP CURB WITH INSULATED SHEET METAL PANEL. PROVIDE 2 INCH, 3 POUND DENSITY INSULATION ON CAP. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER.

3. EXISTING EQUIPMENT TO REMAIN IN SERVICE DURING CONSTRUCTION.

4. CAP EXISTING GAS PIPE AT THIS APPROXIMATE LOCATION. GAS PIPING ENTERING THE BUILDING FROM ROOF SHALL REMAIN.

5. REMOVE ALL GAS PIPING AND SUPPORTS SERVING EQUIPMENT PACK TO METER.

6. REMOVE EXHAUST FANS FROM KITCHEN AREA AND CAP CURB WITH AN INSULATED SHEET METAL PANEL.

ELECTRICAL KEYNOTES: (EX)

E1. TRACE CIRCUIT TO SOURCE. REMOVE CONDUCTORS, RACEWAY, AND SUPPORTS BACK TO SOURCE. SWITCH O.C.P.D. TO "OFF" AND UPDATE INDEX TO "SPARE".

E2. EXISTING EQUIPMENT TO REMAIN. TRACE CIRCUIT TO SOURCE AND VERIFY INDEX PROPERLY MARKED. UPDATE INDEX AS REQUIRED.

E3. EXISTING PANEL TO REMAIN FOR USE IN NEW WORK.

TULSA PUBLIC SCHOOLS

ALLIED ENGINEERING GROUP, LLC
MECHANICAL ENGINEERS
1401 SOUTH DENVER STREET, SUITE A TULSA, OK. 74119
(918) 384-0563/FAX (918) 384-3188 AEGMAIL@AEGLLC.COM
CA 3419 EXP. 06/30/2024

ENGINEER SEAL

REGISTERED PROFESSIONAL ENGINEER
GAYLE D. GWINUP
15478
OKLAHOMA
10/6/2022

REGISTERED PROFESSIONAL ENGINEER
THOMAS EDWARD McKENNA
20222
OKLAHOMA
10/6/2022

TULSA PUBLIC SCHOOLS
NATHAN HALE HIGH SCHOOL
6960 E 21st ST
TULSA, OK 74129

PROJECT TITLE

NATHAN HALE HIGH SCHOOL RFP

REVISION

SHEET TITLE

PARTIAL MEP ROOF PLAN-DEMO

DATE: 10.06.2022

SHEET NO.

MEPD407

Z:\2022\TPS\Hale High School RFP\Dwg\MEPD407.dwg, 10/11/2022 4:12:49 PM, DavisSantee