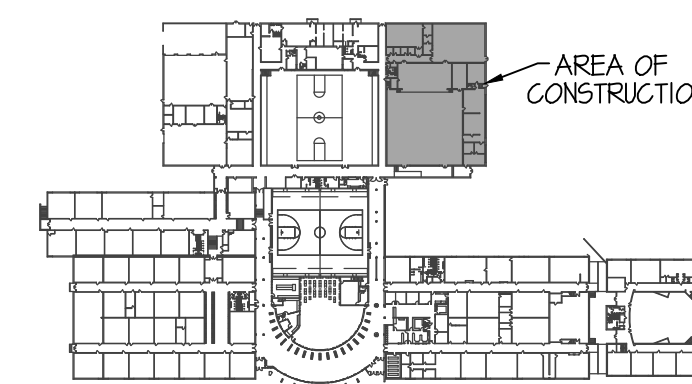
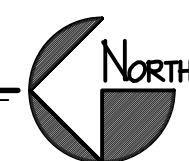


**KITCHEN & CAFETERIA AREA  
MECH. / ELEC. FLOOR PLAN**

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



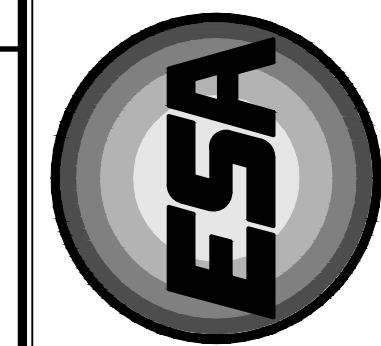
**KEY PLAN**  
NO SCALE

**PLAN NOTES:**

- 1 EXISTING CEILING DIFFUSER / SIDEWALL SUPPLY REGISTER TO REMAIN. BALANCE TO CFM SHOWN.
- 2 REMOVE EXISTING ROOFTOP UNIT AND METAL SUPPORTS LOCATED ON SIDEWALL OF BUILDING. REMOVE EXISTING ELEC. DISCONNECT AND CONDUIT BACK INTO BUILDING. PULL EXISTING ELEC. WIRING & CONTROL WIRING BACK INTO BUILDING AND RELOCATE TO NEW ROOFTOP UNIT LOCATION. SEE NOTES BELOW.
- 3 EXISTING THERMOSTAT TO REMAIN. RECONNECTION TO NEW ROOFTOP UNIT BY OWNER.
- 4 EXISTING SUPPLY AIR DUCTWORK TO REMAIN.
- 5 REMOVE EXISTING ROOFTOP UNIT AND REPLACE WITH NEW UNIT. INSTALL NEW UNIT ON EXISTING ROOFCURB. CONTRACTOR TO PROVIDE ADAPT-A-CURB MOUNT AS REQUIRED. RECONNECT NEW UNIT TO EXISTING GAS PIPING, AND ELECTRICAL.
- 6 INSTALL NEW ROOFTOP UNIT ON NEW ROOF CURB AND FLASH AND SEAL INTO EXISTING ROOF. SEAL WEATHERTIGHT. CONNECT EXISTING POWER TO NEW ROOFTOP UNIT THRU BOTTOM OF CURB. MAINTAIN 10'-0" FROM ROOF EDGE TO UNIT AND 10'-0" FROM ANY ROOF VENTS OR EXHAUST.
- 7 SUPPLY AND RETURN DUCTWORK RUN ON ROOF TO HAVE 1" INTERNAL ACOUSTICAL DUCT LINER, 1-1/2" EXTERNAL DUCT WRAP AND SHEET METAL COVER OVER EXTERNAL WRAP. SEE DETAIL ON SHEET ME-3.
- 8 DROP DUCTWORK DOWN EXPOSED ON EXTERIOR OF BUILDING AND CONNECT TO EXISTING SUPPLY AND RETURN DUCTWORK. SEAL ALL AROUND DUCT PENETRATION THRU WALL WEATHERTIGHT.
- 9 CONNECT NEW 1" HIGH PRESSURE GAS LINE TO EXISTING 1" OR LARGER HIGH PRESSURE GAS LINE LOCATED ON ROOF.
- 10 INSTALL NEW GAS PIPING ON ROOF ON ERICO PIPE PIER SUPPORTS OR APPROVED EQUAL AT 10'-0" ON CENTER.
- 11 INSTALL GAS REGULATOR ON 3/4" HIGH PRESSURE GAS LINE SERVING NEW GAS FIRED ROOFTOP UNIT. SIZE REGULATOR FOR BTU LOAD OF ACTUAL UNIT SUPPLIED. FIELD VERIFY EXISTING GAS LINE PRESSURE AND SUPPLY REGULATOR TO MATCH. CONNECT 3/4" (OZ. PRESSURE) GAS LINE TO UNIT WITH SHUT-OFF VALVE, FLEXIBLE CONNECTION AND DIRT LEG AS SHOWN ON DETAIL ON SHEET ME-3.
- 12 INSTALL UL RATED SMOKE DETECTOR IN RETURN AIR DUCT FOR EMERGENCY FAN SHUT-DOWN AND INTERLOCK WITH UNIT.
- 13 RUN SEPARATE 120 VOLT 20A CIRCUIT (2) #12 WITH GROUND IN 3/4" CONDUIT TO EACH ROOFTOP UNIT. CONNECT TO NEAREST 120 VOLT POWER.

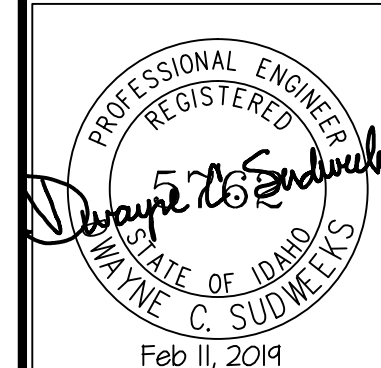
**GENERAL NOTES:**

- A- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.
- B- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
- C- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
- D- CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- E- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS.
- F- ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.



**Engineered Systems Associates  
Mechanical Engineers**  
Dwayne Sudweeks  
1355 East Center - Pocatello, Idaho 83201  
Phone: (208) 233-0501 Fax: (208) 233-0529 email: esa@engsystems.com

PROJECT: **ROOFTOP UNIT REPLACEMENT FOR:  
HIGHLAND HIGH SCHOOL  
POCATELLO SCHOOL DISTRICT #25 POCATELLO, IDAHO**  
SHEET TITLE: **KITCHEN & CAFETERIA MECH. / ELEC. PLAN**



DRWN. BY: SR	CHK. BY: DCS
JOB NO. 180526	DATE: FEB. 2014

SHEET:  
**ME-1**  
OF: **THREE**