26.1 Exhibit B
Specifications Eden Area ROP - Welding Classroom and Workshops

A. Shop #1

Mechanical/Plumbing:

1. Remove existing HVAC system & provide with new.
    a. New HVAC EF shall be mounted at ceiling and sized to serve total cfm / static pressure for all new and existing weld stations. Ductwork shall be sized to meet CMC code requirements & be sufficient for airflow rate and static pressure to meet welding station airflow requirements. Ductwork should be Class 1 duct.
    b. Each welding station shall be equipped with individual exhaust duct drops and a flexible snorkel arm at the end of each duct drop. Duct drops shall also be provided with a readily accessible manual damper at snorkel arm connection.
        i. Snorkel arms shall be 7' length and 3-5" diameter (user defined) & comply with snorkel arm manufacturer recommended cfm & pressure drop associated with size chosen.
2. Provide new quarter-turn bronze body, ball type, line-size shut-off valves at the existing handwash sink at hot and cold-water connections.

Electrical:

1. Remove and replace existing lighting with new LED lighting
    a. 4000k, 70CRI min, and provide 50FC avg at ground level
2. Add (1) 120V, 20A duplex receptacle per welding station.
3. Provide 50A, 3-phase, 250V, 3-pole, 4 wire receptacle, one to two per welding station with disconnect switch per outlet, as indicated on sketch.
    a. Remove <E> Pylon National NEMA receptacles and replace with new Hubbell twist lock or permanent metal cover.
    b. Disconnect switch to be 60A, 240V, one per receptacle.
    c. Confirm final receptacle type with school and match with new welding equipment chosen.

Architectural:

1. Existing welding booths to be modified. See plans.
2. Provide two additional welding booths on East wall in place of existing desk area.
    a. Coordinate with layout dimensions shown on new floor plan.
    b. Booths to match existing style with rigid conduit frame and solid paneling between booths.

B. Shop #2

Mechanical:

1. The existing welding stations are currently served by (2) upblast exhaust fans; labeled "weld exhaust fan" on roof.
    a. Each fan shall be measured prior to construction to verify existing cfm capacity/static pressure & motor amperage. See attached sheet for reference of required measurements by TAB contractor. Note fan speed adjustments if they exist – i.e. adjustable sheaves or VFD's. Determine if addition fan speeds are available from existing fan sets.
        i. TAB contractor should ramp the fans to 100% and measure cfm and static pressure drawn to determine a maximum cfm baseline for each fan. TAB contractor should inspect fan drives to see if fans are capable of speed adjustments (sheaves or VFD) and if fans are at max speed. (Note: If EFs are not belt driven or contain VFDs, the fan may require an updated motor or fan replacement if no adjustment is possible.)

b. Each weld station shall be provided with a snorkel arm at each of the existing exhaust duct drop.
    i. Snorkel arms shall be 7’ length and 3-5” diameter (user defined) & comply with snorkel arm manufacturer recommended cfm & pressure drop associated with size chosen.
c. The total required exhaust cfm should be determined by the summation of all snorkel arms served by each EF. This total airflow and the static pressure calculation for the fan selection should be compared to the measured cfm from the TAB contractor. If the EF shows to meet the cfm demand for all snorkels served, the existing fan can remain. However, if the total airflow @ static pressure needed is not met, the EF should be replaced with a larger fan with ample exhaust capacity.

2. Replace inoperable wash sink & eyewash with new. Provide new, line-size shut off valves at hot and cold-water connections at wall.
3. Remove existing abandoned natural gas piping throughout the weld shop back to natural gas main & cap and label. Retain all-natural gas piping that is still being used i.e. natural gas pipe serving the radiant heaters.
4. Demolish compressed air piping from South wall & re-route to relocated Torchmate equipment.

Electrical:

1. Remove and replace existing lighting with new LED lighting
    a. 4000k, 70CRI min, and provide 50FC avg at ground level
2. Provide (1) 120V, 20A duplex receptacle per welding station.
3. Provide 50A, 3-phase, 250V, 3-pole, 4 wire receptacle, one to two per welding station with disconnect switch per outlet, as indicated on sketch.
    a. Remove <E> Pylon National NEMA receptacles and replace with new Hubbell twist lock or permanent metal cover.
    b. Disconnect switch to be 60A, 240V, one per receptacle.
    c. Confirm final receptacle type with school and match with new welding equipment chosen.

Architectural:

1. Provide two additional welding booths.
    a. Coordinate with layout dimensions shown on new floor plan.
    b. Booths to match existing style with rigid conduit frame

C. Classroom

1. Mechanical – No Scope of Work
2. Electrical – Provide new LED lighting.
    a. 4000k, 70CRI min, and provide 50FC avg at desk level