

3/4/13

## Project Description

### Proposed New Facility for: Everett Community College

Precision Component Education Facility for High-Tech Applications

| <u>Program space/needs</u>   | <u>Square Feet</u> |
|--|--------------------|
| Fabrication/Machine Shop<br><i>Twenty foot wide roll up door. Eighteen foot ceiling heights. Paint throughout. Reconfigure electrical as required. Lighting modifications as needed. Install house air. Install gas lines. Build instructors stations.</i>   | 4,400              |
| Intake/Storage<br><i>Twenty foot wide roll up door. Eighteen foot ceiling heights. Paint throughout. Reconfigure electrical as required. Lighting modifications as needed. Build necessary security and environmental controls. Large covered outdoor work area for truck access. Outdoor overhead lighting, and 480 volt three phase power.</i> | 1,400              |
| AWS Testing<br><i>Twenty foot wide roll up door. Eighteen foot ceiling heights. Visual contact preferred with general lab area but will require additional security. Paint throughout. Open structure.</i>   | 1,200              |
| Composite/Dirty Lab<br><i>Furnish and install compressed air and vacuum systems.</i>   | 2,400              |
| Clean Room<br><i>Paint throughout. Furnish and install compressed air and vacuum systems. Furnish and install storage racks at perimeter walls. Install new data ports and projector system.</i>   | 900                |
| Weld Shop<br><i>Furnish and install compressed air and vacuum systems. Furnish and install hooded air exhaust for twenty new weld booths.</i>  | 3,600              |
| Machine Shop<br><i>Paint throughout open structure. Install house air. Build instructors stations.</i>   | 2,100              |
| Office/Testing<br><i>Sound insulated partition walls. Acoustic ceiling tile. Paint throughout.</i>   | 400                |
| Computer Lab (2) @ 750<br><i>Sound insulated partition walls. GWB ceilings. Paint throughout. Install new data ports and projector system.</i>   | 1,500              |
| Locker Room Men<br><i>Sound insulated partition walls. GWB ceilings. Paint throughout. One-hundred eighty new stackable lockers.</i>   | 800                |
| Locker Room Women<br><i>Sound insulated partition walls. GWB ceilings. Paint throughout. Twenty new stackable lockers. Lighting modifications as needed.</i>   | 200                |

|  |               |
|--|---------------|
| Staff Break Room   | 180           |
| <i>VCT floors, acoustic ceiling tile, paint and carpet.</i>  |               |
| Open Office  | 400           |
| <i>Sound insulated partition walls. Acoustic ceiling tile. Paint throughout. Carpet throughout. Install new data ports and reconfigure electrical as required.</i> |               |
| Office 6 @ 120   | 720           |
| <i>Sound insulated partition walls. Acoustic ceiling tile. Paint throughout. Carpet throughout. Install new data ports and reconfigure electrical as required.</i> |               |
| Office 1 @ 168   | 168           |
| <i>Sound insulated partition walls. Acoustic ceiling tile. Paint throughout. Carpet throughout. Install new data ports and reconfigure electrical as required.</i> |               |
| Student Break Room   | 600           |
| <i>VCT floors, acoustic ceiling tile, paint and carpet.</i>  |               |
| Reception/Entry  | 700           |
| <i>VCT floors, acoustic ceiling tile, paint and carpet.</i>  |               |
| Computer Lab (3) @ 750   | 2,250         |
| <i>Sound insulated partition walls. GWB ceilings. Paint throughout. Install new data ports and projector system. 18 PC's.</i>                                      |               |
| Classroom (2) @ 1,200  | 2,400         |
| <i>Sound insulated partition walls. GWB ceilings. Paint throughout. Install new data ports and projector system. 40 PC's.</i>                                      |               |
| Lav. Men (2) @ 180   | 360           |
| Lav. Women (2) @ 180   | 360           |
| Total SF space requirements  | 27,218        |
| Additional unfinished flex space   | 5,000         |
| Circulation – 25% of actual SF   | 6,892         |
| <b>Total square feet</b>   | <b>39,470</b> |

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**Mechanical:**

Air exhaust system at weld shop to account for 20 weld and 2 grinding booths.

**Electrical:**

480 volt 400 amp Distribution Panel - 4 each  
208 volt 225 amp Distribution Panel - 4 each  
Dry Type Xfmr (480 volt to 208 volt, 75 KVA)

**Equipment Connections:**

6 Pack Welding Machine - 6 each  
Portable Welding Outlet (30 Amp) - 10 each  
Composite Lab Equipment (60 Amp) - 10 each  
Machine Shop Equipment (60 Amp) - 10 each  
Cord Wheel - 10 each

# SCHEMATIC BLOCKING DIAGRAM (EXAMPLE)

