

Schematic Design Estimate

Public Works Facility

170 Dwight Road
Longmeadow, Ma

Prepared by:



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Prepared for:

Weston and Sampson

March 6, 2017

Public Works Facility170 Dwight Road
Longmeadow, Ma

06-Mar-17

Schematic Design Estimate**MAIN CONSTRUCTION COST SUMMARY**

| | Floor Area | \$/sf | Estimated Construction Cost |
|---|---------------|-----------------|-----------------------------|
| EXISTING DPW SITE DEMO/SITE REMOVALS (ALLOWANCE) | | | \$700,000 |
| SITWORK | | | \$2,865,273 |
| FUEL ISLAND | | | \$677,050 |
| SALT SHED | 3,600 | \$97.25 | \$350,094 |
| VEHICLE STORAGE | 19,950 | \$142.18 | \$2,836,452 |
| OPEN CANOPY STORAGE | 7,200 | \$80.50 | \$579,631 |
| ADMIN & SUPPORT | 10,780 | \$275.02 | \$2,964,765 |
| FLEET MAINTENANCE & SHOPS | 12,713 | \$233.47 | \$2,968,095 |
| WASH BAY | 1,590 | \$373.25 | \$593,464 |
| MEZZANINES | 4,473 | \$81.81 | \$365,940 |
| INDUSTRIAL EQUIPMENT | | | \$614,946 |
| TOTAL ESTIMATED SD CONSTRUCTION COSTS (\$/sf area not including open storage or mezzanines) | 45,033 | \$344.54 | \$15,515,710 |

Note: Premium of approximately \$150k is included for Brick veneer at Admin Building façade

QUALIFICATIONS

This Schematic Design cost estimate was produced from drawings and other documentation prepared by Weston and Sampson and their design team dated February 16, 2017. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractor's overhead and profit and design contingency. Cost escalation assumes 2018 schedule with a 12-14 month schedule.

Bidding conditions are expected to be public bidding to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufactures.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

All professional fees and insurance

All Furnishings, Fixture, Equipment, Tele-data and Security devices & wiring

Items identified in the design as Not In Contract (NIC)

Hazardous material and soil abatement

Special foundations or ledge blasting (unless indicated by design engineers)

Utility company back charges, including work required off-site

Work to City streets and sidewalks, (except as noted in this estimate)

Construction or occupancy phasing or off hours' work, (except as noted in this estimate)

Radiant slab heat

Sales Tax

Building Permit

Schematic Design Estimate

| CONSTRUCTION COST SUMMARY | | | | | | | | | | | 45,033 | GSF | |
|--|-----------------------|--------------------|------------------|------------------|---------------------|------------------|---------------------------|--------------------|------------------|----------------------|------------------|---------------------|-----------------|
| BUILDING SYSTEM | SITWORK | FUEL ISLAND | SALT SHED | VEHICLE STORAGE | OPEN CANOPY STORAGE | ADMIN & SUPPORT | FLEET MAINTENANCE & SHOPS | WASH BAY | MEZZANINES | INDUSTRIAL EQUIPMENT | BASE TOTAL | \$/SF | |
| A10 | BUILDING FOUNDATIONS | | | \$506,873 | \$106,574 | \$251,702 | \$338,811 | \$87,222 | \$0 | \$0 | \$1,291,182 | \$28.67 | |
| B10 | SUPERSTRUCTURE | | | \$742,550 | \$201,600 | \$280,750 | \$502,981 | \$66,230 | \$137,041 | \$0 | \$1,931,152 | \$42.88 | |
| B20 | EXTERIOR CLOSURE | | | \$134,460 | \$0 | \$528,768 | \$215,670 | \$83,780 | \$0 | \$0 | \$962,678 | \$21.38 | |
| B30 | ROOFING | | | \$0 | \$0 | \$5,000 | \$0 | \$0 | \$0 | \$0 | \$5,000 | \$0.11 | |
| C10 | INTERIOR CONSTRUCTION | | | \$54,300 | \$4,000 | \$311,976 | \$476,450 | \$54,410 | \$0 | \$0 | \$901,136 | \$20.01 | |
| C20 | STAIRCASES | | | \$0 | \$0 | \$0 | \$0 | \$0 | \$78,200 | \$0 | \$78,200 | \$1.74 | |
| C30 | INTERIOR FINISHES | | | \$34,305 | \$15,600 | \$173,628 | \$64,610 | \$32,595 | \$6,720 | \$0 | \$327,458 | \$7.27 | |
| D10 | CONVEYING SYSTEMS | | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0.00 | |
| D20 | PLUMBING | | | \$85,100 | \$33,500 | \$161,340 | \$92,996 | \$43,810 | \$0 | \$0 | \$416,746 | \$9.25 | |
| D30 | HVAC | | | \$299,250 | \$0 | \$323,400 | \$317,825 | \$55,650 | \$13,440 | \$0 | \$1,009,565 | \$22.42 | |
| D40 | FIRE PROTECTION | | | \$87,000 | \$33,440 | \$60,200 | \$64,900 | \$11,540 | \$23,000 | \$0 | \$280,080 | \$6.22 | |
| D50 | ELECTRICAL | \$287,300 | | \$327,180 | \$56,880 | \$293,202 | \$312,598 | \$40,386 | \$42,112 | \$0 | \$1,359,658 | \$30.19 | |
| E20 | FURNISHINGS | | | \$0 | \$0 | \$12,900 | \$0 | \$0 | \$0 | \$0 | \$12,900 | \$0.29 | |
| F10 | INDUSTRIAL EQUIPMENT | | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$505,000 | \$505,000 | \$11.21 | |
| F20 | FUEL ISLAND | \$556,000 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$556,000 | \$12.35 | |
| G10 | SITWORK | \$2,065,688 | | \$58,301 | \$24,404 | \$31,826 | \$50,585 | \$11,735 | \$0 | \$0 | \$2,242,539 | \$49.80 | |
| G40 | CUSTOM SALT SHED | | \$287,500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$287,500 | \$6.38 | |
| TOTAL DIRECT COST (Trade Costs) | | \$2,352,988 | \$556,000 | \$287,500 | \$2,329,319 | \$475,998 | \$2,434,692 | \$2,437,426 | \$487,358 | \$300,513 | \$505,000 | \$12,166,794 | \$270.18 |
| GENERAL CONDITIONS & REQUIREMENTS | 8% | \$188,239 | \$44,480 | \$23,000 | \$186,346 | \$38,080 | \$194,775 | \$194,994 | \$38,989 | \$24,041 | \$40,400 | \$973,344 | \$21.61 |
| GL INSURANCE | 1.10% | \$25,883 | \$6,116 | \$3,163 | \$25,623 | \$5,236 | \$26,782 | \$26,812 | \$5,361 | \$3,306 | \$5,555 | \$133,837 | \$2.97 |
| BONDS | 1.8% | \$42,354 | \$10,008 | \$5,175 | \$41,928 | \$8,568 | \$43,824 | \$43,874 | \$8,772 | \$5,409 | \$9,090 | \$219,002 | \$4.86 |
| BUILDING PERMIT (waived) | 0.0% | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0.00 |
| OVERHEAD AND PROFIT | 3.0% | \$78,284 | \$18,498 | \$9,565 | \$77,496 | \$15,836 | \$81,002 | \$81,093 | \$16,214 | \$9,998 | \$16,801 | \$404,787 | \$8.99 |
| DESIGN AND PRICING CONTINGENCY (per W&S) | 3.0% | \$80,632 | \$19,053 | \$9,852 | \$79,821 | \$16,312 | \$83,432 | \$83,526 | \$16,701 | \$10,298 | \$17,305 | \$416,932 | \$9.26 |
| ESCALATION TO 2018 | 3.5% | \$96,893 | \$22,895 | \$11,839 | \$95,919 | \$19,601 | \$100,258 | \$100,370 | \$20,069 | \$12,375 | \$20,795 | \$501,014 | \$11.13 |
| TOTAL ESTIMATED SD CONSTRUCTION COSTS | | \$2,865,273 | \$677,050 | \$350,094 | \$2,836,452 | \$579,631 | \$2,964,765 | \$2,968,095 | \$593,464 | \$365,940 | \$614,946 | \$14,815,710 | \$329.00 |

Schematic Design Estimate

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

SITEWORK

A ELECTRICAL

| | | | | | | | |
|---------------------------|--|-----|----|------------|---------|---------|----------------|
| <u>Power</u> | | | | | | | |
| 16000 | Primary elec street connection | 1 | ls | 8,500.00 | 8,500 | | |
| 16000 | Primary and secondary conduit and wire | 400 | lf | 112.00 | 44,800 | | |
| 16000 | Allow for Generator - size TBD | 1 | ls | 185,000.00 | 185,000 | | |
| <u>Site Lighting</u> | | | | | | | |
| 16000 | Light poles, conduit and wiring | 11 | ea | 3,800.00 | 41,800 | | |
| 16000 | Light bollard, conduit and wiring | | | | | | NIC |
| <u>Communication</u> | | | | | | | |
| 16000 | Communication conduits | 400 | lf | 18.00 | 7,200 | | |
| SUBTOTAL | | | | | | 287,300 | |
| TOTAL - ELECTRICAL | | | | | | | 287,300 |

B SITE FUEL SYSTEM

| | | | | | | | |
|---------------------------------|--|-----|----|---------|---------|---------|----------------|
| 02200 | Fuel system | 1 | ls | 385,000 | 385,000 | | |
| 02200 | Canopy foundations & slab | 1 | ls | 42,000 | 42,000 | | |
| 02200 | Canopy | 1 | ls | 75,000 | 75,000 | | |
| 02200 | Fire Suppression | 1 | ls | 45,000 | 45,000 | | |
| 03300 | Elec power and duct bank for fuel island | 120 | lf | 75.00 | 9,000 | | |
| SUBTOTAL | | | | | | 556,000 | |
| TOTAL - SITE FUEL SYSTEM | | | | | | | 556,000 |

D SITEWORK

| | | | | | | | |
|---|--|---------|------|-----------|---------|--|-----|
| <u>Site Contractor general conditions</u> | | | | | | | |
| 02200 | Field Engineering | 8 | dy | 1,375.00 | 11,000 | | |
| 02200 | Trench Plates Trench Safety | 1 | ls | 3,500.00 | 3,500 | | |
| 02200 | Site Supervision | 4 | mo | 7,800.00 | 31,200 | | |
| 02200 | Mobilization | 2 | ea | 5,000.00 | 10,000 | | |
| 02200 | Site fencing, protection, barricades | 1 | ls | 20,000.00 | 20,000 | | |
| <u>Site Demo and prep</u> | | | | | | | |
| 02200 | Remove bitcon | 100,614 | sf | 0.65 | 65,399 | | |
| 02200 | Remove Metal bldg | 84,877 | sf | 4.50 | 381,947 | | |
| 02200 | Remove concrete walks | 7,339 | sf | 3.00 | 22,017 | | |
| 02200 | Remove pads/vaults | 2 | ea | 5,000.00 | 10,000 | | |
| 02200 | Straw waddle | 2,500 | lf | 8.90 | 22,250 | | |
| 02200 | Infiltration Filters at CB | 4 | ea | 168.00 | 672 | | |
| 02200 | Clear and grub | 285,000 | sf | 0.20 | 57,000 | | |
| <u>Earthwork</u> | | | | | | | |
| 02200 | Site Cuts to Fills | 25,926 | cy | 5.00 | 129,630 | | |
| 02200 | Export excess unsuitable | 1,556 | cy | 30.00 | 46,680 | | |
| 02200 | Import structural fill under new foundations | 3,250 | cy | 25.00 | 81,250 | | |
| 02200 | Shape & Compact Subgrade for new grades and basins | 8 | dy | 3,000.00 | 24,000 | | |
| 02200 | Ledge removal allowance | | | | | | NIC |
| 02200 | Dewatering allowance | 2 | mnth | 7,500.00 | 15,000 | | |
| <u>Structural excavation and backfill</u> | | | | | | | |
| 02200 | Included with each bldg estimate | | | | | | |
| <u>Slab Prep</u> | | | | | | | |
| 02200 | Included with each bldg estimate | | | | | | |
| <u>Paving and walks prep</u> | | | | | | | |
| 02200 | Bitum. Paving 12" Dense Grade | 5,134 | cy | 20.00 | 102,680 | | |
| 02200 | Conc. Walks 8" Dense Grade | 79 | cy | 20.00 | 1,580 | | |

Schematic Design Estimate

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|---------------------------------|---|--------|------|-----------|------------|-----------|------------------|
| SITEWORK | | | | | | | |
| <u>Paving and curbing</u> | | | | | | | |
| 02200 | Heavy duty pavement | 13,200 | sy | 23.00 | 303,600 | | |
| 02200 | Light duty pavement | 2,100 | sy | 20.00 | 42,000 | | |
| 02200 | Granite curbs | 1,200 | lf | 45.00 | 54,000 | | |
| 02200 | HMA Berm | 2,020 | lf | 22.00 | 44,440 | | |
| <u>Utilities</u> | | | | | | | |
| <u>Storm</u> | | | | | | | |
| 02200 | Storm - CB | 13 | ea | 3,800.00 | 49,400 | | |
| 02200 | Storm - MH | 9 | ea | 4,800.00 | 43,200 | | |
| 02200 | Storm - OGS | 2 | ea | 9,500.00 | 19,000 | | |
| 02200 | Storm piping, various sizes tbd | 1,920 | lf | 45.00 | 86,400 | | |
| 02200 | Storm - rip rap flared end | 2 | ea | 2,500.00 | 5,000 | | |
| 02200 | Storm - underground stormwater chambers allowance | 3,500 | sf | 12.00 | 42,000 | | |
| <u>Water</u> | | | | | | | |
| 02200 | 8" piping | 225 | lf | 42.50 | 9,563 | | |
| 02200 | 6" piping | 30 | lf | 40.00 | 1,200 | | |
| 02200 | Water CTE at street | 1 | ls | 1,200.00 | 1,200 | | |
| 02200 | Hydrant | 2 | ea | 2,850.00 | 5,700 | | |
| <u>Gas</u> | | | | | | | |
| 02200 | Gas piping | 225 | lf | 50.00 | 11,250 | | |
| <u>Sanitary</u> | | | | | | | |
| 02200 | San CTE to MH | 1 | ea | 3,500.00 | 3,500 | | |
| 02200 | 6" PVC | 250 | lf | 45.20 | 11,300 | | |
| 02200 | SMH | 1 | ea | 4,500.00 | 4,500 | | |
| 02200 | SMH | 1 | ea | 4,500.00 | 4,500 | | |
| <u>Site Improvements</u> | | | | | | | |
| 02200 | Concrete walks | 2,530 | sf | 6.00 | 15,180 | | |
| 02200 | Knock down pad | 1,550 | sf | 7.50 | 11,625 | | |
| 02200 | Block retaining walls and bulk storage walls | 1,150 | sf | 25.00 | 28,750 | | |
| 02200 | HC signs | 4 | ea | 200.00 | 800 | | |
| 02200 | Parking space lines/symbols | 59 | ea | 45.00 | 2,655 | | |
| 02200 | Sliding gates | 2 | ea | 15,000.00 | 30,000 | | |
| 02200 | Vinyl covered chainlink fencing at site perimeter | 2,200 | lf | 45.00 | 99,000 | | |
| 02200 | Flag pole | 1 | ls | 4,500.00 | 4,500 | | |
| 02200 | Bollards | 10 | ea | 600.00 | 6,000 | | |
| 02200 | Misc site improvements, Signs and misc | 1 | ls | 5,000.00 | 5,000 | | |
| 02200 | Main sign | 1 | ls | 7,500.00 | 7,500 | | |
| <u>Landscaping</u> | | | | | | | |
| 02200 | Loam, seed and plantings | 1 | ls | 25,000.00 | 25,000 | | |
| <u>Ductbanks and pole bases</u> | | | | | | | |
| 03300 | Transformer Pad | 1 | ea | 5,000.00 | 5,000 | | |
| 03300 | Generator Pad | 1 | ea | 5,000.00 | 5,000 | | |
| 03300 | E&B Elec/communication duct banks | 400 | lf | 25.00 | 10,000 | | |
| 03300 | Encase duct banks in concrete | 154 | cy | 180.00 | 27,720 | | |
| 16000 | L.Pole Base | 11 | ea | 400.00 | 4,400 | | |
| 16000 | Light bollard base | | | | | NIC | |
| | SUBTOTAL | | | | | 2,065,688 | |
| TOTAL - SITE DEVELOPMENT | | | | | | | 2,065,688 |

Schematic Design Estimate

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

SITework

G CUSTOM SALT SHED

Site Structures

| | | | | | | | |
|---------------------------------|--|-------|----|-----------|---------|---------|----------------|
| 13000 | Salt shed | 3,600 | sf | 65.00 | 234,000 | | |
| 13000 | Block retaining walls and ramp | 1 | ls | 10,000.00 | 10,000 | | |
| 13000 | Roof premium (asphalt) - FSB | 3,600 | sf | 10.00 | 36,000 | | |
| 03300 | Elec power and duct bank for fuel island | 100 | lf | 75.00 | 7,500 | | |
| | SUBTOTAL | | | | | 287,500 | |
| TOTAL - CUSTOM SALT SHED | | | | | | | 287,500 |

Schematic Design Estimate

GFA 19,950

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

VEHICLE STORAGE

GROSS FLOOR AREA CALCULATION

Vehicle storage 19,950

| | | | | | | | |
|-------------------------------------|--|--|--|--|--|---------------|------------|
| TOTAL GROSS FLOOR AREA (GFA) | | | | | | 19,950 | gsf |
|-------------------------------------|--|--|--|--|--|---------------|------------|

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

Strip footings to exterior walls

| | | | | | | | |
|-------|-------------------|-----|-----|--------|--------|--|--|
| 03300 | Formwork | 772 | sf | 15.00 | 11,580 | | |
| 03300 | Re-bar | 811 | lbs | 2.00 | 1,622 | | |
| 03300 | Concrete material | 45 | cy | 160.00 | 7,200 | | |
| 03300 | Placing concrete | 45 | cy | 40.00 | 1,800 | | |

Foundation walls at exterior

| | | | | | | | |
|-------|--|-------|-----|--------|--------|--|--|
| 03300 | Formwork | 5,404 | sf | 15.00 | 81,060 | | |
| 03300 | Re-bar | 4,246 | lbs | 2.00 | 8,492 | | |
| 03300 | Concrete material | 140 | cy | 160.00 | 22,400 | | |
| 03300 | Placing concrete | 140 | cy | 40.00 | 5,600 | | |
| 07150 | Dampproofing foundation wall and footing | 2,316 | sf | 3.50 | 8,106 | | |
| 07210 | Rigid insulation on foundation walls | 2,316 | sf | 4.00 | 9,264 | | |

Stem wall behind CMU to 5'-8"

| | | | | | | | |
|-------|-------------------|-------|-----|--------|--------|--|--|
| 03300 | Formwork | 4,255 | sf | 15.00 | 63,825 | | |
| 03300 | Re-bar | 4,070 | lbs | 2.00 | 8,140 | | |
| 03300 | Concrete material | 83 | cy | 160.00 | 13,280 | | |
| 03300 | Placing concrete | 83 | cy | 40.00 | 3,320 | | |

F5 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 140 | sf | 15.00 | 2,100 | | |
| 03300 | Re-bar | 187 | lbs | 2.00 | 374 | | |
| 03300 | Concrete material | 7 | cy | 160.00 | 1,120 | | |
| 03300 | Placing concrete | 7 | cy | 40.00 | 280 | | |
| 03300 | Set anchor bolts grout plates | 7 | ea | 125.00 | 875 | | |

F6 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 144 | sf | 15.00 | 2,160 | | |
| 03300 | Re-bar | 128 | lbs | 2.00 | 256 | | |
| 03300 | Concrete material | 8 | cy | 160.00 | 1,280 | | |
| 03300 | Placing concrete | 8 | cy | 40.00 | 320 | | |
| 03300 | Set anchor bolts grout plates | 4 | ea | 125.00 | 500 | | |

F8 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 448 | sf | 15.00 | 6,720 | | |
| 03300 | Re-bar | 299 | lbs | 2.00 | 598 | | |
| 03300 | Concrete material | 35 | cy | 160.00 | 5,600 | | |
| 03300 | Placing concrete | 35 | cy | 40.00 | 1,400 | | |
| 03300 | Set anchor bolts grout plates | 7 | ea | 125.00 | 875 | | |

F8x5 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 104 | sf | 15.00 | 1,560 | | |
| 03300 | Re-bar | 86 | lbs | 2.00 | 172 | | |
| 03300 | Concrete material | 6 | cy | 160.00 | 960 | | |
| 03300 | Placing concrete | 6 | cy | 40.00 | 240 | | |
| 03300 | Set anchor bolts grout plates | 2 | ea | 125.00 | 250 | | |

F10 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 312 | sf | 15.00 | 4,680 | | |
| 03300 | Re-bar | 257 | lbs | 2.00 | 514 | | |
| 03300 | Concrete material | 19 | cy | 160.00 | 3,040 | | |
| 03300 | Placing concrete | 19 | cy | 40.00 | 760 | | |
| 03300 | Set anchor bolts grout plates | 6 | ea | 125.00 | 750 | | |

Schematic Design Estimate

GFA 19,950

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|---------------------------------|---|--------|------|-----------|------------|-----------|------------------|
| VEHICLE STORAGE | | | | | | | |
| | <u>Miscellaneous</u> | | | | | | |
| 03300 | Form key in footing | 386 | lf | 4.00 | 1,544 | | |
| 03300 | <u>Piers</u> | | | | | | |
| 03300 | Formwork | 416 | sf | 15.00 | 6,240 | | |
| 03300 | Re-bar | 2,340 | lbs | 2.00 | 4,680 | | |
| 03300 | Concrete material | 8 | cy | 160.00 | 1,280 | | |
| 03300 | Placing concrete | 8 | cy | 40.00 | 320 | | |
| | SUBTOTAL | | | | | 297,137 | |
| A1030 | LOWEST FLOOR CONSTRUCTION | | | | | | |
| | <u>Slab on grade</u> | | | | | | |
| 07210 | Vapor barrier | 19,950 | sf | 0.50 | 9,975 | | |
| 03300 | Rebar reinforcing | 22,943 | sf | 2.00 | 45,886 | | |
| 03300 | Concrete - 8" thick | 528 | cy | 160.00 | 84,480 | | |
| 03300 | Placing concrete | 528 | cy | 35.00 | 18,480 | | |
| 03300 | Finishing and curing concrete | 19,950 | sf | 1.50 | 29,925 | | |
| 03300 | Control joints - saw cut | 19,950 | sf | 0.20 | 3,990 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 03300 | Column ties | 6 | ea | 2,000.00 | 12,000 | | |
| 03300 | Misc pads and curbs | 1 | ls | 5,000.00 | 5,000 | | |
| 07100 | SUBTOTAL | | | | | 209,736 | |
| TOTAL - FOUNDATIONS | | | | | | | \$506,873 |
| B10 SUPERSTRUCTURE | | | | | | | |
| | B1020 ROOF CONSTRUCTION | | | | | | |
| | <u>Pre-fabricated Structure (includes steel, insulated metal panels walls and roof) :</u> | | | | | | |
| 13000 | Prefabricated metal building package (galv steel, 4" metal panels and metal roof) | 19,950 | sf | 37.00 | 738,150 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 05120 | Overhead door frames | 2 | ea | 2,200.00 | 4,400 | | |
| | SUBTOTAL | | | | | 742,550 | |
| TOTAL - SUPERSTRUCTURE | | | | | | | \$742,550 |
| B20 EXTERIOR CLOSURE | | | | | | | |
| | B2010 EXTERIOR WALLS | | | | | | |
| | <u>Exterior skin</u> | | | | | | |
| 04200 | CMU veneer | 2,405 | sf | 32.00 | 76,960 | | |
| 04200 | Air barrier | 2,405 | sf | 6.00 | 14,430 | | |
| 04200 | Rigid Insulation | 2,405 | sf | 4.00 | 9,620 | | |
| 07461 | Metal Panel system with Prefabricated metal building package | | | | | | |
| | SUBTOTAL | | | | | 101,010 | |
| | B2020 WINDOWS | | | | | | |
| | <u>Curtainwall and Aluminum windows</u> | | | | | | |
| 07900 | Translucent windows | | | | none | | |
| 07900 | Backer rod & double sealant | | | | none | | |
| 06100 | Wood blocking at openings | | | | none | | |
| | SUBTOTAL | | | | | - | |
| | B2030 EXTERIOR DOORS | | | | | | |
| 08300 | Overhead doors - 18' x 16' | 2 | ea | 14,400.00 | 28,800 | | |
| 08100 | 3x7 ext galv doors with vision glass | 2 | ea | 1,500.00 | 3,000 | | |
| 07900 | Backer rod & double sealant | 150 | lf | 5.00 | 750 | | |
| 06100 | Wood blocking at openings | 150 | lf | 6.00 | 900 | | |
| | SUBTOTAL | | | | | \$33,450 | |
| TOTAL - EXTERIOR CLOSURE | | | | | | | \$134,460 |

Schematic Design Estimate

GFA 19,950

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|--------------------------------------|--|--------|------|-----------|------------|-----------|------------------|
| VEHICLE STORAGE | | | | | | | |
| B30 ROOFING | | | | | | | |
| | B3010 ROOF COVERINGS | | | | | | |
| 07500 | All roofing included with Prefabricated metal building | | | | | | |
| | SUBTOTAL | | | | | - | |
| | B3020 ROOF OPENINGS | | | | | | |
| 08600 | N/A | | | | | | |
| | SUBTOTAL | | | | | \$0 | |
| TOTAL - ROOFING | | | | | | | \$0 |
| C10 INTERIOR CONSTRUCTION | | | | | | | |
| | C1010 PARTITIONS | | | | | | |
| 04200 | Separation wall - to admin | 1,920 | sf | 25.00 | 48,000 | | |
| | SUBTOTAL | | | | | 48,000 | |
| | C1020 INTERIOR DOORS | | | | | | |
| 05500 | Double door | 1 | ea | 2,500.00 | 2,500 | | |
| | SUBTOTAL | | | | | 2,500 | |
| | C1030 SPECIALTIES / MILLWORK | | | | | | |
| 05500 | Interior bollards | 4 | ea | 450.00 | 1,800 | | |
| 05500 | Exterior bollards | 4 | ea | 500.00 | 2,000 | | |
| | SUBTOTAL | | | | | \$3,800 | |
| TOTAL - INTERIOR CONSTRUCTION | | | | | | | \$54,300 |
| C30 INTERIOR FINISHES | | | | | | | |
| | C3010 WALL FINISHES | | | | | | |
| 09900 | Paint to interior CMU separation walls | 1,920 | sf | 1.50 | 2,880 | | |
| | SUBTOTAL | | | | | \$2,880 | |
| | C3020 FLOOR FINISHES | | | | | | |
| 09700 | Sealed concrete - Vehicle storage | 19,950 | sf | 1.50 | 29,925 | | |
| 09700 | Line stripping | 1 | ls | 1,500.00 | 1,500 | | |
| | SUBTOTAL | | | | | 31,425 | |
| | C3030 CEILING FINISHES | | | | | | |
| 09900 | Exposed prefab metal bldg package | | | | | | |
| | SUBTOTAL | | | | | \$0 | |
| TOTAL - INTERIOR FINISHES | | | | | | | \$34,305 |
| D20 PLUMBING | | | | | | | |
| | D20 PLUMBING | | | | | | |
| 15100 | Sub slab vent system | | | | | | NIC |
| 15100 | Trench drains & piping | 36 | lf | 200.00 | 7,200 | | |
| 15100 | Sump drains & piping | 3 | ea | 4,500.00 | 13,500 | | |
| 15100 | Plumbing Gas Piping to HVAC equip | 300 | lf | 45.00 | 13,500 | | |
| 15100 | Misc plumbing | 19,950 | sf | 2.00 | 39,900 | | |
| 15100 | Seismic restraints | 1 | ls | 7,500.00 | 7,500 | | |
| 15100 | Testing and sterilization | 1 | ls | 3,500.00 | 3,500 | | |
| | SUBTOTAL | | | | | 85,100 | |
| TOTAL - PLUMBING | | | | | | | \$85,100 |
| D30 HVAC | | | | | | | |
| | D30 HVAC | | | | | | |
| 15300 | HVAC system | 19,950 | sf | 15.00 | 299,250 | | |
| | SUBTOTAL | | | | | \$299,250 | |
| TOTAL - HVAC | | | | | | | \$299,250 |

Schematic Design Estimate

GFA 19,950

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|---|---|--------|------|-----------|------------|-----------|------------------|
| VEHICLE STORAGE | | | | | | | |
| D40 FIRE PROTECTION | | | | | | | |
| D40 FIRE PROTECTION | | | | | | | |
| 15200 | Sprinkler heads | 181 | ea | 160.00 | 28,960 | | |
| 15200 | Branch sprinkler piping with fittings & hangers | 1,810 | lf | 24.00 | 43,440 | | |
| 15200 | Main sprinkler piping with fittings & hangers | 320 | lf | 30.00 | 9,600 | | |
| 15200 | Hydraulic calculations | 1 | ls | 5,000.00 | 5,000 | | |
| | SUBTOTAL | | | | | \$87,000 | |
| TOTAL - FIRE PROTECTION | | | | | | | \$87,000 |
| D50 ELECTRICAL | | | | | | | |
| Power Equipment | | | | | | | |
| 16100 | Electrical Power and circuitry - Cost portion of switchboard, panels and misc equipment (located in central location) | 19,950 | sf | 7.00 | 139,650 | | |
| | SUBTOTAL | | | | | \$139,650 | |
| D5020 LIGHTING & POWER | | | | | | | |
| Lighting & Branch Power | | | | | | | |
| 16100 | Lighting and branch circuitry | 19,950 | sf | 5.00 | 99,750 | | |
| 16100 | Equipment power | 19,950 | sf | 1.00 | 19,950 | | |
| | SUBTOTAL | | | | | 119,700 | |
| D5030 COMMUNICATION & SECURITY SYSTEMS | | | | | | | |
| Telecommunications System | | | | | | | |
| 16100 | Rough in allowance | | | | N/A | | |
| Fire Alarm | | | | | | | |
| 16100 | Fire alarm system | 19,950 | sf | 2.50 | 49,875 | | |
| Security System | | | | | | | |
| 16100 | Security roughin allowance | 19,950 | sf | 0.50 | 9,975 | | |
| PA/Sound System | | | | | | | |
| 16100 | PA system | | | | NIC | | |
| | SUBTOTAL | | | | | \$59,850 | |
| D5040 OTHER ELECTRICAL SYSTEMS | | | | | | | |
| Lightning protection | | | | | | | |
| 16100 | UL Master label lightning protection | | | | NIC | | |
| Miscellaneous | | | | | | | |
| 16100 | Temp services | 19,950 | sf | 0.40 | 7,980 | | |
| | SUBTOTAL | | | | | 7,980 | |
| TOTAL - ELECTRICAL | | | | | | | \$327,180 |
| G SITEWORK | | | | | | | |
| Structural Excavation and backfill | | | | | | | |
| 02200 | Foundation Perimeter, footings and tie beams | 650 | lf | 35.00 | 22,750 | | |
| 02200 | 6" ADS Perf Perimeter Drain | | | | w/ site | | |
| Underslab piping | | | | | | | |
| 02200 | E&B Trench | 550 | lf | 8.88 | 4,884 | | |
| Slab Prep | | | | | | | |
| 02200 | Slab Prep 9" Stone | 739 | cy | 28.00 | 20,692 | | |
| 02200 | Fine Grade & Compact | 19,950 | sf | 0.50 | 9,975 | | |
| | SUBTOTAL | | | | | 58,301 | |
| TOTAL - SITE DEVELOPMENT | | | | | | | 58,301 |

Schematic Design Estimate

GFA

7,200

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

CANOPY STORAGE

GROSS FLOOR AREA CALCULATION

Vehicle Canopy storage 7,200

| | |
|-------------------------------------|------------------|
| TOTAL GROSS FLOOR AREA (GFA) | 7,200 gsf |
|-------------------------------------|------------------|

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

F8 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 512 | sf | 15.00 | 7,680 | | |
| 03300 | Re-bar | 342 | lbs | 2.00 | 684 | | |
| 03300 | Concrete material | 40 | cy | 160.00 | 6,400 | | |
| 03300 | Placing concrete | 40 | cy | 40.00 | 1,600 | | |
| 03300 | Set anchor bolts grout plates | 8 | ea | 125.00 | 1,000 | | |

Piers

| | | | | | | | |
|-------|-------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 128 | sf | 15.00 | 1,920 | | |
| 03300 | Re-bar | 720 | lbs | 2.00 | 1,440 | | |
| 03300 | Concrete material | 2 | cy | 160.00 | 320 | | |
| 03300 | Placing concrete | 2 | cy | 40.00 | 80 | | |

21,124

SUBTOTAL

A1030 LOWEST FLOOR CONSTRUCTION

Slab on grade

| | | | | | | | |
|-------|-------------------------------|-------|----|--------|--------|--|--|
| 07210 | Vapor barrier | 7,200 | sf | 0.50 | 3,600 | | |
| 03300 | Rebar reinforcing | 8,280 | sf | 2.00 | 16,560 | | |
| 03300 | Concrete - 8" thick | 190 | cy | 160.00 | 30,400 | | |
| 03300 | Placing concrete | 190 | cy | 35.00 | 6,650 | | |
| 03300 | Finishing and curing concrete | 7,200 | sf | 1.50 | 10,800 | | |
| 03300 | Control joints - saw cut | 7,200 | sf | 0.20 | 1,440 | | |

Miscellaneous

| | | | | | | | |
|-------|-------------|---|----|----------|--------|--|--|
| 03300 | Column ties | 8 | ea | 2,000.00 | 16,000 | | |
|-------|-------------|---|----|----------|--------|--|--|

85,450

SUBTOTAL

| | |
|----------------------------|------------------|
| TOTAL - FOUNDATIONS | \$106,574 |
|----------------------------|------------------|

B10 SUPERSTRUCTURE

B1020 ROOF CONSTRUCTION

Pre-fabricated Structure (includes steel, insulated metal panels walls and roof):

| | | | | | | | |
|-------|---|-------|----|-------|---------|--|--|
| 13000 | Prefabricated metal building package (galv steel, un-insulated metal panel ends and metal roof) | 7,200 | sf | 28.00 | 201,600 | | |
|-------|---|-------|----|-------|---------|--|--|

SUBTOTAL

201,600

| | |
|-------------------------------|------------------|
| TOTAL - SUPERSTRUCTURE | \$201,600 |
|-------------------------------|------------------|

B30 ROOFING

B3010 ROOF COVERINGS

| | | | | | | | |
|-------|--|--|--|--|--|--|--|
| 07500 | All roofing included with Prefabricated metal building | | | | | | |
|-------|--|--|--|--|--|--|--|

SUBTOTAL

-

B3020 ROOF OPENINGS

| | | | | | | | |
|-------|-----|--|--|--|--|--|--|
| 08600 | N/A | | | | | | |
|-------|-----|--|--|--|--|--|--|

SUBTOTAL

\$0

| | |
|------------------------|------------|
| TOTAL - ROOFING | \$0 |
|------------------------|------------|

Schematic Design Estimate

GFA

7,200

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

CANOPY STORAGE

C10 INTERIOR CONSTRUCTION

| | | | | | | | |
|--------------------------------------|-------------------|---|----|--------|-------|--|----------------|
| C1010 PARTITIONS | | | | | | | |
| 04200 | N/A | | | | | | |
| | SUBTOTAL | | | | | | - |
| C1020 INTERIOR DOORS | | | | | | | |
| 08140 | N/A | | | | | | |
| | SUBTOTAL | | | | | | - |
| C1030 SPECIALTIES / MILLWORK | | | | | | | |
| 05500 | Exterior bollards | 8 | ea | 500.00 | 4,000 | | |
| | SUBTOTAL | | | | | | \$4,000 |
| TOTAL - INTERIOR CONSTRUCTION | | | | | | | \$4,000 |

C30 INTERIOR FINISHES

| | | | | | | | |
|----------------------------------|-----------------------------------|-------|----|------|--------|--|-----------------|
| C3010 WALL FINISHES | | | | | | | |
| 09900 | N/A | | | | | | |
| | SUBTOTAL | | | | | | \$0 |
| C3020 FLOOR FINISHES | | | | | | | |
| 09700 | Sealed concrete | 7,200 | sf | 1.75 | 12,600 | | |
| 09700 | Line stripping | 600 | sf | 5.00 | 3,000 | | |
| | SUBTOTAL | | | | | | 15,600 |
| C3030 CEILING FINISHES | | | | | | | |
| 09900 | Exposed prefab metal bldg package | | | | | | |
| | SUBTOTAL | | | | | | \$0 |
| TOTAL - INTERIOR FINISHES | | | | | | | \$15,600 |

D20 PLUMBING

| | | | | | | | |
|--------------------------------|---------------------------|---|----|----------|--------|-----|-----------------|
| D20 PLUMBING, GENERALLY | | | | | | | |
| 15100 | Sub slab vent system | | | | | NIC | |
| 15100 | Floor drains & piping | 4 | ea | 6,500.00 | 26,000 | | |
| 15100 | Seismic restraints | 1 | ls | 5,000.00 | 5,000 | | |
| 15100 | Testing and sterilization | 1 | ls | 2,500.00 | 2,500 | | |
| | SUBTOTAL | | | | | | 33,500 |
| TOTAL - PLUMBING | | | | | | | \$33,500 |

D30 HVAC

| | | | | | | | |
|----------------------------|----------|--|--|--|--|--|------------|
| D30 HVAC, GENERALLY | | | | | | | |
| 15300 | N/A | | | | | | |
| | SUBTOTAL | | | | | | \$0 |
| TOTAL - HVAC | | | | | | | \$0 |

D40 FIRE PROTECTION

| | | | | | | | |
|---------------------------------------|---|-----|----|----------|--------|--|-----------------|
| D40 FIRE PROTECTION, GENERALLY | | | | | | | |
| 15200 | Dry Sprinkler heads | 48 | ea | 165.00 | 7,920 | | |
| 15200 | Dry valve | 1 | ls | 1,500.00 | 1,500 | | |
| 15200 | Branch sprinkler piping with fittings & hangers | 480 | lf | 24.00 | 11,520 | | |
| 15200 | Main sprinkler piping with fittings & hangers | 250 | lf | 30.00 | 7,500 | | |
| 15200 | Hydraulic calculations | 1 | ls | 5,000.00 | 5,000 | | |
| | SUBTOTAL | | | | | | \$33,440 |
| TOTAL - FIRE PROTECTION | | | | | | | \$33,440 |

Schematic Design Estimate

GFA

7,200

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

CANOPY STORAGE

D50 ELECTRICAL

Power Equipment

| | | | | | | | |
|-------|---|-------|----|------|--------|----------|--|
| 16100 | Electrical Power and circuitry - Cost portion of switchboard, panels and misc equipment (located in central location) | 7,200 | sf | 2.50 | 18,000 | | |
| | SUBTOTAL | | | | | \$18,000 | |

D5020 LIGHTING & POWER

Lighting & Branch Power

| | | | | | | | |
|-------|-------------------------------|-------|----|------|--------|--------|--|
| 16100 | Lighting and branch circuitry | 7,200 | sf | 2.50 | 18,000 | | |
| 16100 | Power | 7,200 | sf | 0.50 | 3,600 | | |
| | SUBTOTAL | | | | | 21,600 | |

D5030 COMMUNICATION & SECURITY SYSTEMS

Telecommunications System

| | | | | | | | |
|-------|--------------------|--|--|--|-----|--|--|
| 16100 | Rough in allowance | | | | N/A | | |
|-------|--------------------|--|--|--|-----|--|--|

Fire Alarm

| | | | | | | | |
|-------|-------------------|-------|----|------|--------|--|--|
| 16100 | Fire alarm system | 7,200 | sf | 2.00 | 14,400 | | |
|-------|-------------------|-------|----|------|--------|--|--|

Security System

| | | | | | | | |
|-------|----------------------------|--|--|--|-----|--|--|
| 16100 | Security roughin allowance | | | | NIC | | |
|-------|----------------------------|--|--|--|-----|--|--|

PA/Sound System

| | | | | | | | |
|-------|-----------|--|--|--|-----|----------|--|
| 16100 | PA system | | | | NIC | | |
| | SUBTOTAL | | | | | \$14,400 | |

D5040 OTHER ELECTRICAL SYSTEMS

Lightning protection

| | | | | | | | |
|-------|--------------------------------------|--|--|--|-----|--|--|
| 16100 | UL Master label lightning protection | | | | NIC | | |
|-------|--------------------------------------|--|--|--|-----|--|--|

Miscellaneous

| | | | | | | | |
|-------|---------------|-------|----|------|-------|-------|--|
| 16100 | Temp services | 7,200 | sf | 0.40 | 2,880 | | |
| | SUBTOTAL | | | | | 2,880 | |

TOTAL - ELECTRICAL

\$56,880

G SITEWORK

Structural Excavation and backfill

| | | | | | | | |
|-------|-----------------------------|----|----|--------|---------|--|--|
| 02200 | Footings and tie beams | 16 | ea | 500.00 | 8,000 | | |
| 02200 | 6" ADS Perf Perimeter Drain | | | | w/ site | | |

Underslab piping

| | | | | | | | |
|-------|------------|-----|----|------|-------|--|--|
| 02200 | E&B Trench | 600 | lf | 8.88 | 5,328 | | |
|-------|------------|-----|----|------|-------|--|--|

Slab Prep

| | | | | | | | |
|-------|----------------------|-------|----|-------|-------|--|--|
| 02200 | Slab Prep 9" Stone | 267 | cy | 28.00 | 7,476 | | |
| 02200 | Fine Grade & Compact | 7,200 | sf | 0.50 | 3,600 | | |

| | | | | | | | |
|--|----------|--|--|--|--|--------|--|
| | SUBTOTAL | | | | | 24,404 | |
|--|----------|--|--|--|--|--------|--|

TOTAL - SITE DEVELOPMENT

24,404

Schematic Design Estimate

GFA 10,780

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

ADMIN & SUPPORT

GROSS FLOOR AREA CALCULATION

Admin & Support 10,780

| | |
|-------------------------------------|------------------|
| TOTAL GROSS FLOOR AREA (GFA) | 10,780 sf |
|-------------------------------------|------------------|

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

Strip footings to exterior walls

| | | | | | |
|-------|-------------------|-----|-----|--------|--------|
| 03300 | Formwork | 714 | sf | 15.00 | 10,710 |
| 03300 | Re-bar | 750 | lbs | 2.00 | 1,500 |
| 03300 | Concrete material | 35 | cy | 160.00 | 5,600 |
| 03300 | Placing concrete | 35 | cy | 40.00 | 1,400 |

Foundation walls at exterior

| | | | | | |
|-------|--|-------|-----|--------|--------|
| 03300 | Formwork | 4,284 | sf | 15.00 | 64,260 |
| 03300 | Re-bar | 3,927 | lbs | 2.00 | 7,854 |
| 03300 | Concrete material | 111 | cy | 160.00 | 17,760 |
| 03300 | Placing concrete | 111 | cy | 40.00 | 4,440 |
| 07150 | Dampproofing foundation wall and footing | 2,142 | sf | 3.50 | 7,497 |
| 07210 | Rigid insulation on foundation walls | 2,142 | sf | 4.00 | 8,568 |

F5 Column footings

| | | | | | |
|-------|-------------------------------|----|-----|--------|-----|
| 03300 | Formwork | 60 | sf | 15.00 | 900 |
| 03300 | Re-bar | 80 | lbs | 2.00 | 160 |
| 03300 | Concrete material | 3 | cy | 160.00 | 480 |
| 03300 | Placing concrete | 3 | cy | 40.00 | 120 |
| 03300 | Set anchor bolts grout plates | 3 | ea | 125.00 | 375 |

F6 Column footings

| | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|
| 03300 | Formwork | 288 | sf | 15.00 | 4,320 |
| 03300 | Re-bar | 257 | lbs | 2.00 | 514 |
| 03300 | Concrete material | 17 | cy | 160.00 | 2,720 |
| 03300 | Placing concrete | 17 | cy | 40.00 | 680 |
| 03300 | Set anchor bolts grout plates | 8 | ea | 125.00 | 1,000 |

F8 Column footings

| | | | | | |
|-------|-------------------------------|----|-----|--------|-----|
| 03300 | Formwork | 64 | sf | 15.00 | 960 |
| 03300 | Re-bar | 43 | lbs | 2.00 | 86 |
| 03300 | Concrete material | 5 | cy | 160.00 | 800 |
| 03300 | Placing concrete | 5 | cy | 40.00 | 200 |
| 03300 | Set anchor bolts grout plates | 1 | ea | 125.00 | 125 |

F8x5 Column footings

| | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|
| 03300 | Formwork | 156 | sf | 15.00 | 2,340 |
| 03300 | Re-bar | 128 | lbs | 2.00 | 256 |
| 03300 | Concrete material | 9 | cy | 160.00 | 1,440 |
| 03300 | Placing concrete | 9 | cy | 40.00 | 360 |
| 03300 | Set anchor bolts grout plates | 3 | ea | 125.00 | 375 |

Miscellaneous

| | | | | | |
|-------|---------------------|-----|----|------|-------|
| 03300 | Form key in footing | 357 | lf | 6.00 | 2,142 |
|-------|---------------------|-----|----|------|-------|

Piers

| | | | | | |
|-------|-------------------|-------|-----|--------|-------|
| 03300 | Formwork | 240 | sf | 15.00 | 3,600 |
| 03300 | Re-bar | 1,350 | lbs | 2.00 | 2,700 |
| 03300 | Concrete material | 5 | cy | 160.00 | 800 |
| 03300 | Placing concrete | 5 | cy | 40.00 | 200 |

SUBTOTAL

157,242

Schematic Design Estimate

GFA

10,780

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

ADMIN & SUPPORT

| | | | | | | | |
|-------|-------------------------------|--------|----|----------|--------|--------|--|
| A1030 | LOWEST FLOOR CONSTRUCTION | | | | | | |
| | <u>6" Slab on grade</u> | | | | | | |
| 07210 | Vapor barrier | 10,780 | sf | 0.50 | 5,390 | | |
| 03300 | Rebar reinforcing | 12,397 | sf | 2.00 | 24,794 | | |
| 03300 | Concrete - 6" thick | 210 | cy | 160.00 | 33,600 | | |
| 03300 | Placing concrete | 210 | cy | 35.00 | 7,350 | | |
| 03300 | Finishing and curing concrete | 10,780 | sf | 1.50 | 16,170 | | |
| 03300 | Control joints - saw cut | 10,780 | sf | 0.20 | 2,156 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 03300 | Misc pads and curbs | 1 | ls | 5,000.00 | 5,000 | | |
| | SUBTOTAL | | | | | 94,460 | |

| | |
|----------------------------|------------------|
| TOTAL - FOUNDATIONS | \$251,702 |
|----------------------------|------------------|

| |
|---------------------------|
| B10 SUPERSTRUCTURE |
|---------------------------|

| | | | | | | | |
|---------------------------------|--|--------|----|--------|---------|---------|--|
| B1010 FLOOR CONSTRUCTION | | | | | | | |
| | N/A | | | | | | |
| | SUBTOTAL | | | | | - | |
| B1020 ROOF CONSTRUCTION | | | | | | | |
| | <u>Pre-fabricated Structure (includes steel, insulated roof - no siding) :</u> | | | | | | |
| 13000 | Prefabricated metal building package (galv steel, metal roof, no siding) | 10,780 | sf | 25.00 | 269,500 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 05120 | Window and door frames | 15 | ea | 750.00 | 11,250 | | |
| | SUBTOTAL | | | | | 280,750 | |

| | |
|-------------------------------|------------------|
| TOTAL - SUPERSTRUCTURE | \$280,750 |
|-------------------------------|------------------|

| |
|-----------------------------|
| B20 EXTERIOR CLOSURE |
|-----------------------------|

| | | | | | | | |
|-----------------------------|--|-------|----|-------|---------|-----|---------|
| B2010 EXTERIOR WALLS | | | | | | | |
| | <u>Interior skin</u> | | | | | | |
| 09250 | 6" Metal stud | 6,350 | sf | 12.00 | 76,200 | | |
| 09250 | Exterior sheathing | 6,350 | sf | 2.75 | 17,463 | | |
| 09211 | 5/8" int gwb | 6,350 | sf | 2.00 | 12,700 | | |
| 09900 | Paint | 6,033 | sf | 1.00 | 6,033 | | |
| | <u>Exterior skin</u> | | | | | | |
| 04200 | Brick veneer | 3,300 | sf | 42.00 | 138,600 | | |
| 04200 | CMU veneer | 1,200 | sf | 32.00 | 38,400 | | |
| 04200 | Metal panel | 1,850 | sf | 45.00 | 83,250 | | |
| 04200 | Air barrier | 6,350 | sf | 6.00 | 38,100 | | |
| 04200 | Rigid Insulation | 6,350 | sf | 4.00 | 25,400 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 06100 | Front canopy and exterior ceiling supports, framing and blocking | | | | | NIC | |
| 06100 | Side canopy and exterior ceiling supports, framing and blocking | | | | | NIC | |
| | SUBTOTAL | | | | | | 436,146 |

Schematic Design Estimate

GFA 10,780

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

ADMIN & SUPPORT

B2020 WINDOWS

Curtainwall and Aluminum windows

| | | | | | | | |
|-------|-----------------------------|-----|----|-------|--------|--------|--|
| 07900 | Aluminum window | 650 | sf | 75.00 | 48,750 | | |
| 07900 | Storefront | 200 | sf | 80.00 | 16,000 | | |
| 07900 | Backer rod & double sealant | 250 | lf | 5.00 | 1,250 | | |
| 06100 | Wood blocking at openings | 250 | lf | 6.00 | 1,500 | | |
| | SUBTOTAL | | | | | 67,500 | |

B2030 EXTERIOR DOORS

| | | | | | | | |
|-------|--------------------------------------|-----|----|----------|--------|--------|--|
| 08100 | Ext entry door, sidelight and trans | 3 | ea | 3,500.00 | 10,500 | | |
| 08100 | Vest entry door, sidelight and trans | 3 | ea | 3,000.00 | 9,000 | | |
| 08100 | Ext double door | 1 | ea | 2,850.00 | 2,850 | | |
| 07900 | Backer rod & double sealant | 252 | lf | 5.00 | 1,260 | | |
| 06100 | Wood blocking at openings | 252 | lf | 6.00 | 1,512 | | |
| | SUBTOTAL | | | | | 25,122 | |

TOTAL - EXTERIOR CLOSURE

\$528,768

B30 ROOFING

B3010 ROOF COVERINGS

| | | | | | | | |
|-------|--|---|----|----------|-------|-------|--|
| 07540 | All roofing included with Prefabricated metal building | | | | | | |
| 07620 | Premium for expansion joints | 1 | ls | 5,000.00 | 5,000 | | |
| | SUBTOTAL | | | | | 5,000 | |

TOTAL - ROOFING

\$5,000

C10 INTERIOR CONSTRUCTION

C1010 PARTITIONS

| | | | | | | | |
|-------|--------------------|--------|----|-------|---------|---------|--|
| 09211 | Type 3Ai | 12,630 | sf | 12.00 | 151,560 | | |
| 09211 | Type 3Ai half wall | 100 | sf | 15.00 | 1,500 | | |
| 09211 | Type 2i | 4,320 | sf | 8.00 | 34,560 | | |
| 09211 | Type 2Ai | 945 | sf | 9.00 | 8,505 | | |
| 06100 | Rough blocking | 650 | lf | 6.00 | 3,900 | | |
| | SUBTOTAL | | | | | 200,025 | |

C1020 INTERIOR DOORS

| | | | | | | | |
|-------|---|----|-----|----------|--------|--------|--|
| 08100 | Single door | 25 | lvs | 1,320.00 | 33,000 | | |
| 08100 | Double door | 2 | lvs | 2,102.00 | 4,204 | | |
| 08100 | Allow for sidelight and borrowed lights | 10 | ea | 650.00 | 6,500 | | |
| 09900 | Paint HM frames | 37 | ea | 95.00 | 3,515 | | |
| 07920 | Sealants & caulking | 37 | ea | 68.00 | 2,516 | | |
| | SUBTOTAL | | | | | 49,735 | |

Schematic Design Estimate

GFA 10,780

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|-------------|-------------|-----|------|--------------|---------------|--------------|---------------|
|-------------|-------------|-----|------|--------------|---------------|--------------|---------------|

ADMIN & SUPPORT

C1030 SPECIALTIES / MILLWORK

| | | | | | | | |
|-------|--|-----|----|----------|--------|--------|--|
| 06402 | Musterm Kitchen cabinets and counters | 21 | lf | 375.00 | 7,875 | | |
| 06402 | Restroom vanity counters | 15 | lf | 285.00 | 4,275 | | |
| 06402 | Bench at cor 123 | 4 | lf | 200.00 | 800 | | |
| 06402 | Wet gear shelving | 15 | lf | 85.00 | 1,275 | | |
| 06402 | Conf kitchenette cabinets and counters | 12 | lf | 375.00 | 4,500 | | |
| 06402 | Copy/file cab/counter/shelving | 10 | lf | 300.00 | 3,000 | | |
| 06402 | Public counter, opening and trans | 1 | ls | 5,000.00 | 5,000 | | |
| 06402 | Window sills | 140 | lf | 30.00 | 4,200 | | |
| 05500 | 2" expansion jt and covers | 50 | lf | 45.00 | 2,250 | | |
| | <u>Lockers</u> | | | | | | |
| 10800 | Lockers | 55 | ea | 275.00 | 15,125 | | |
| 10800 | Lockers benches | 9 | ea | 500.00 | 4,500 | | |
| | <u>Restrooms</u> | | | | | | |
| 10800 | Shower curtain and rods | 3 | ea | 200.00 | 600 | | |
| 10800 | Toilet partitions HC | 2 | ea | 1,200.00 | 2,400 | | |
| 10800 | Toilet partitions Reg | 3 | ea | 1,000.00 | 3,000 | | |
| 10800 | Toilet partitions urinal screen | 2 | ea | 450.00 | 900 | | |
| 10800 | Soap disp | 6 | ea | 18.00 | 108 | | |
| 10800 | Mirror | 6 | ea | 233.00 | 1,398 | | |
| 10800 | Robe hook | 10 | ea | 23.00 | 230 | | |
| 10800 | Grab bar | 6 | ea | 85.00 | 510 | | |
| 10800 | TP holder | 6 | ea | 45.00 | 270 | | |
| | SUBTOTAL | | | | | 62,216 | |

| | | | | | | |
|--------------------------------------|--|--|--|--|--|------------------|
| TOTAL - INTERIOR CONSTRUCTION | | | | | | \$311,976 |
|--------------------------------------|--|--|--|--|--|------------------|

C20 STAIRCASES

| | | | | | | | |
|-------|---------------------------------|--|--|--|--|-----|--|
| | C2010 STAIR CONSTRUCTION | | | | | | |
| 05500 | N/A | | | | | | |
| | SUBTOTAL | | | | | \$0 | |
| | C2020 STAIR FINISHES | | | | | | |
| 09651 | N/A | | | | | | |
| | SUBTOTAL | | | | | \$0 | |

| | | | | | | |
|---------------------------|--|--|--|--|--|------------|
| TOTAL - STAIRCASES | | | | | | \$0 |
|---------------------------|--|--|--|--|--|------------|

C30 INTERIOR FINISHES

| | | | | | | | |
|-------|-----------------------------|--------|----|-------|--------|--------|--|
| | C3010 WALL FINISHES | | | | | | |
| 09900 | Paint to GWB | 23,400 | sf | 1.00 | 23,400 | | |
| 09300 | Tile to walls | 900 | sf | 20.00 | 18,000 | | |
| | SUBTOTAL | | | | | 41,400 | |
| | C3020 FLOOR FINISHES | | | | | | |
| 09651 | CT | 440 | sf | 20.00 | 8,800 | | |
| 09665 | VCT | 3,100 | sf | 4.50 | 13,950 | | |
| 09900 | EP | 1,137 | sf | 15.00 | 17,055 | | |
| 09900 | CPT | 3,275 | sf | 5.00 | 16,375 | | |
| 09900 | Sealed concrete | 9,378 | sf | 2.00 | 18,756 | | |
| 09651 | Rubber base | 1,950 | lf | 3.50 | 6,825 | | |
| | SUBTOTAL | | | | | 81,761 | |

Schematic Design Estimate

GFA 10,780

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|---------------------------------------|---|--------|------|--------------|---------------|--------------|------------------|
| ADMIN & SUPPORT | | | | | | | |
| C3030 CEILING FINISHES | | | | | | | |
| 09510 | ACT ceilings; 2' x 2' | 9,100 | sf | 4.50 | 40,950 | | |
| 09211 | MR GWB ceiling | 220 | sf | 8.00 | 1,760 | | |
| 09211 | GWB ceiling | 630 | sf | 7.00 | 4,410 | | |
| 09211 | GWB soffits | 53 | lf | 40.00 | 2,120 | | |
| 09900 | Paint to GWB ceilings and soffits | 1,115 | sf | 1.10 | 1,227 | | |
| | SUBTOTAL | | | | | 50,467 | |
| TOTAL - INTERIOR FINISHES | | | | | | | \$173,628 |
| D10 CONVEYING SYSTEMS | | | | | | | |
| D1010 ELEVATOR | | | | | | | |
| 14210 | N/A | | | | | | |
| | SUBTOTAL | | | | | \$0 | |
| TOTAL - CONVEYING SYSTEMS | | | | | | | \$0 |
| D20 PLUMBING | | | | | | | |
| D20 PLUMBING | | | | | | | |
| 220000 | WC | 6 | ea | 4,500.00 | 27,000 | | |
| 220000 | Vanity sink | 5 | ea | 4,500.00 | 22,500 | | |
| 220000 | Jan sink | 1 | ea | 4,000.00 | 4,000 | | |
| 220000 | Showers | 3 | ea | 6,500.00 | 19,500 | | |
| 220000 | WH sink | 1 | ea | 4,500.00 | 4,500 | | |
| 220000 | Urinals | 2 | ea | 4,250.00 | 8,500 | | |
| 220000 | Kitchen/Break sink | 1 | ea | 3,000.00 | 3,000 | | |
| 220000 | Water cooler | 1 | ea | 5,500.00 | 5,500 | | |
| 220000 | Conf sink | 1 | ea | 3,000.00 | 3,000 | | |
| 15100 | Plumbing Gas Piping to HVAC equip | 400 | lf | 45.00 | 18,000 | | |
| 15100 | Misc plumbing | 10,780 | sf | 3.00 | 32,340 | | |
| 220000 | Sub slab vent system | | | | | | NIC |
| 220000 | Seismic restraints | 1 | ls | 3,500.00 | 3,500 | | |
| 220000 | Testing and sterilization | 1 | ls | 3,500.00 | 3,500 | | |
| 220000 | Coordination | 1 | ls | 5,000.00 | 5,000 | | |
| 220000 | Permits | 1 | ls | 1,500.00 | 1,500 | | |
| | SUBTOTAL | | | | | \$161,340 | |
| TOTAL - PLUMBING | | | | | | | \$161,340 |
| D30 HVAC | | | | | | | |
| D30 HVAC | | | | | | | |
| 23000 | HVAC system | 10,780 | sf | 30.00 | 323,400 | | |
| | SUBTOTAL | | | | | 323,400 | |
| TOTAL - HVAC | | | | | | | \$323,400 |
| D40 FIRE PROTECTION | | | | | | | |
| D40 FIRE PROTECTION, GENERALLY | | | | | | | |
| 24000 | Sprinkler heads | 98 | ea | 160.00 | 15,680 | | |
| 24000 | Branch sprinkler piping with fittings & hangers | 980 | lf | 24.00 | 23,520 | | |
| 24000 | Main sprinkler piping with fittings & hangers | 450 | lf | 30.00 | 13,500 | | |
| 24000 | Hydraulic calculations | 1 | ls | 7,500.00 | 7,500 | | |
| | SUBTOTAL | | | | | 60,200 | |
| TOTAL - FIRE PROTECTION | | | | | | | \$60,200 |

Schematic Design Estimate

GFA 10,780

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|---|---|--------|------|-----------|------------|------------------|------------|
| ADMIN & SUPPORT | | | | | | | |
| D50 ELECTRICAL | | | | | | | |
| D5010 SERVICE & DISTRIBUTION | | | | | | | |
| <i>Power Equipment</i> | | | | | | | |
| 16100 | Electrical Power and circuitry - Cost portion of switchboard, panels and misc equipment (located in central location) | 10,780 | sf | 12.00 | 129,360 | | |
| | SUBTOTAL | | | | | \$129,360 | |
| D5020 LIGHTING & POWER | | | | | | | |
| <i>Lighting & Branch Power</i> | | | | | | | |
| 16100 | Lighting and branch circuitry | 10,780 | sf | 8.00 | 86,240 | | |
| 16100 | Equipment power | 10,780 | sf | 2.50 | 26,950 | | |
| | SUBTOTAL | | | | | 113,190 | |
| D5030 COMMUNICATION & SECURITY SYSTEMS | | | | | | | |
| <i>Telecommunications System</i> | | | | | | | |
| 16100 | Rough in allowance | 35 | drps | 400.00 | 14,000 | | |
| <i>Fire Alarm</i> | | | | | | | |
| 16100 | Fire alarm system | 10,780 | sf | 2.50 | 26,950 | | |
| <i>Security System</i> | | | | | | | |
| 16100 | Security roughin allowance | 10,780 | sf | 0.50 | 5,390 | | |
| <i>PA/Sound System</i> | | | | | | | |
| 16100 | PA system | | | | NIC | | |
| | SUBTOTAL | | | | | \$46,340 | |
| D5040 OTHER ELECTRICAL SYSTEMS | | | | | | | |
| <i>Lightning protection</i> | | | | | | | |
| 16100 | UL Master label lightning protection | | | | NIC | | |
| <i>Miscellaneous</i> | | | | | | | |
| 16100 | Temp services | 10,780 | sf | 0.40 | 4,312 | | |
| | SUBTOTAL | | | | | 4,312 | |
| TOTAL - ELECTRICAL | | | | | | \$293,202 | |
| E20 FURNISHINGS | | | | | | | |
| E2010 FIXED FURNISHINGS | | | | | | | |
| 12211 | Horizontal Louver Blinds | 650 | sf | 6.00 | 3,900 | | |
| 11000 | Kitchen appliances | 1 | ls | 4,500.00 | 4,500 | | |
| 11000 | Conf room appliances | 1 | ls | 4,500.00 | 4,500 | | |
| | SUBTOTAL | | | | | \$12,900 | |
| E2020 MOVABLE FURNISHINGS | | | | | | | |
| All movable furnishings to be provided and installed by owner | | | | | | NIC | |
| | SUBTOTAL | | | | | | |
| TOTAL - FURNISHINGS | | | | | | \$12,900 | |
| G SITEWORK | | | | | | | |
| <u>Structural Excavation and backfill</u> | | | | | | | |
| 02200 | Foundation Perimeter, footings and pit | 360 | lf | 35.00 | 12,600 | | |
| 02200 | 6" ADS Perf Perimeter Drain | | | | w/ site | | |
| <u>Underslab piping</u> | | | | | | | |
| 02200 | E&B Trench | 300 | lf | 8.88 | 2,664 | | |
| <u>Slab Prep</u> | | | | | | | |
| 02200 | Slab Prep 9" Stone | 399 | cy | 28.00 | 11,172 | | |
| 02200 | Fine Grade & Compact | 10,780 | sf | 0.50 | 5,390 | | |
| | SUBTOTAL | | | | | 31,826 | |
| TOTAL - SITE DEVELOPMENT | | | | | | 31,826 | |

Schematic Design Estimate

GFA 12,713

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

FLEET MAINTENANCE & SHOPS

GROSS FLOOR AREA CALCULATION

Maintenance & shops 12,713

| | |
|-------------------------------------|------------------|
| TOTAL GROSS FLOOR AREA (GFA) | 12,713 sf |
|-------------------------------------|------------------|

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

Strip footings to exterior walls

| | | | | | | | |
|-------|-------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 560 | sf | 15.00 | 8,400 | | |
| 03300 | Re-bar | 588 | lbs | 2.00 | 1,176 | | |
| 03300 | Concrete material | 33 | cy | 160.00 | 5,280 | | |
| 03300 | Placing concrete | 33 | cy | 40.00 | 1,320 | | |

Foundation walls at exterior

| | | | | | | | |
|-------|--|-------|-----|--------|--------|--|--|
| 03300 | Formwork | 3,360 | sf | 15.00 | 50,400 | | |
| 03300 | Re-bar | 3,080 | lbs | 2.00 | 6,160 | | |
| 03300 | Concrete material | 87 | cy | 160.00 | 13,920 | | |
| 03300 | Placing concrete | 87 | cy | 40.00 | 3,480 | | |
| 07150 | Dampproofing foundation wall and footing | 1,680 | sf | 3.50 | 5,880 | | |
| 07210 | Rigid insulation on foundation walls | 1,680 | sf | 4.00 | 6,720 | | |

Stem wall behind CMU to 5'-8"

| | | | | | | | |
|-------|-------------------|-------|-----|--------|--------|--|--|
| 03300 | Formwork | 2,875 | sf | 15.00 | 43,125 | | |
| 03300 | Re-bar | 2,750 | lbs | 2.00 | 5,500 | | |
| 03300 | Concrete material | 56 | cy | 160.00 | 8,960 | | |
| 03300 | Placing concrete | 56 | cy | 40.00 | 2,240 | | |

F5 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 80 | sf | 15.00 | 1,200 | | |
| 03300 | Re-bar | 107 | lbs | 2.00 | 214 | | |
| 03300 | Concrete material | 4 | cy | 160.00 | 640 | | |
| 03300 | Placing concrete | 4 | cy | 40.00 | 160 | | |
| 03300 | Set anchor bolts grout plates | 4 | ea | 125.00 | 500 | | |

F8x5 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 420 | sf | 15.00 | 6,300 | | |
| 03300 | Re-bar | 428 | lbs | 2.00 | 856 | | |
| 03300 | Concrete material | 28 | cy | 160.00 | 4,480 | | |
| 03300 | Placing concrete | 28 | cy | 40.00 | 1,120 | | |
| 03300 | Set anchor bolts grout plates | 10 | ea | 125.00 | 1,250 | | |

Miscellaneous

| | | | | | | | |
|-------|---------------------|-----|----|------|-------|--|--|
| 03300 | Form key in footing | 280 | lf | 4.00 | 1,120 | | |
|-------|---------------------|-----|----|------|-------|--|--|

Piers

| | | | | | | | |
|-------|-------------------|-------|-----|--------|-------|--|--|
| 03300 | Formwork | 224 | sf | 15.00 | 3,360 | | |
| 03300 | Re-bar | 1,260 | lbs | 2.00 | 2,520 | | |
| 03300 | Concrete material | 4 | cy | 160.00 | 640 | | |
| 03300 | Placing concrete | 4 | cy | 40.00 | 160 | | |

SUBTOTAL

187,081

Schematic Design Estimate

GFA

12,713

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

FLEET MAINTENANCE & SHOPS

| | | | | | | | |
|-------|-------------------------------|--------|----|----------|--------|---------|--|
| A1030 | LOWEST FLOOR CONSTRUCTION | | | | | | |
| | <u>Slab on grade</u> | | | | | | |
| 07210 | Vapor barrier | 12,713 | sf | 0.50 | 6,357 | | |
| 03300 | Rebar reinforcing | 14,620 | sf | 2.00 | 29,240 | | |
| 03300 | Concrete - 8" thick | 336 | cy | 160.00 | 53,760 | | |
| 03300 | Placing concrete | 336 | cy | 35.00 | 11,760 | | |
| 03300 | Finishing and curing concrete | 12,713 | sf | 1.50 | 19,070 | | |
| 03300 | Control joints - saw cut | 12,713 | sf | 0.20 | 2,543 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 03300 | Column ties | 8 | ea | 2,000.00 | 16,000 | | |
| 03300 | Haunch slab under CMU | 40 | cy | 200.00 | 8,000 | | |
| 03300 | Misc pads and curbs | 1 | ls | 5,000.00 | 5,000 | | |
| 07100 | SUBTOTAL | | | | | 151,730 | |

| | |
|----------------------------|------------------|
| TOTAL - FOUNDATIONS | \$338,811 |
|----------------------------|------------------|

B10 SUPERSTRUCTURE

| | | | | | | | |
|-------|---|--------|----|----------|---------|---------|--|
| | B1020 ROOF CONSTRUCTION | | | | | | |
| | <u>Pre-fabricated Structure (includes steel, insulated metal panels walls and roof) :</u> | | | | | | |
| 13000 | Prefabricated metal building package | 12,713 | sf | 37.00 | 470,381 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 05120 | Overhead door frames | 8 | ea | 2,200.00 | 17,600 | | |
| 05120 | Large window frame | 10 | ea | 1,500.00 | 15,000 | | |
| | SUBTOTAL | | | | | 502,981 | |

| | |
|-------------------------------|------------------|
| TOTAL - SUPERSTRUCTURE | \$502,981 |
|-------------------------------|------------------|

B20 EXTERIOR CLOSURE

| | | | | | | | |
|-------|--|-------|----|-------|--------|--------|--|
| | B2010 EXTERIOR WALLS | | | | | | |
| | <u>Exterior skin</u> | | | | | | |
| 04200 | CMU veneer | 1,610 | sf | 32.00 | 51,520 | | |
| 04200 | Air barrier | 1,610 | sf | 6.00 | 9,660 | | |
| 04200 | Rigid Insulation | 1,610 | sf | 4.00 | 6,440 | | |
| 07461 | Metal Panel system with Prefabricated metal building package | | | | | | |
| | SUBTOTAL | | | | | 67,620 | |

| | | | | | | | |
|-------|---|-----|----|-------|--------|--------|--|
| | B2020 WINDOWS | | | | | | |
| | <u>Curtainwall and Aluminum windows</u> | | | | | | |
| 07900 | Translucent windows | 550 | sf | 70.00 | 38,500 | | |
| 07900 | Aluminum windows | 120 | sf | 75.00 | 9,000 | | |
| 07900 | Backer rod & double sealant | 440 | lf | 5.00 | 2,200 | | |
| 06100 | Wood blocking at openings | 440 | lf | 6.00 | 2,640 | | |
| | SUBTOTAL | | | | | 52,340 | |

| | | | | | | | |
|-------|--------------------------------------|-----|----|-----------|--------|--------|--|
| | B2030 EXTERIOR DOORS | | | | | | |
| 08300 | 16'x14' OH door | 4 | ea | 11,200.00 | 44,800 | | |
| 08300 | 14'x14' OH door | 3 | ea | 9,800.00 | 29,400 | | |
| 08300 | 8'x8' OH | 1 | ea | 5,000.00 | 5,000 | | |
| 08100 | Ext single door w/ trans | 6 | ea | 1,500.00 | 9,000 | | |
| 08100 | Ext double door w/ trans & sidelight | 1 | ea | 3,000.00 | 3,000 | | |
| 07900 | Backer rod & double sealant | 410 | lf | 5.00 | 2,050 | | |
| 06100 | Wood blocking at openings | 410 | lf | 6.00 | 2,460 | | |
| | SUBTOTAL | | | | | 95,710 | |

| | |
|---------------------------------|------------------|
| TOTAL - EXTERIOR CLOSURE | \$215,670 |
|---------------------------------|------------------|

Schematic Design Estimate

GFA

12,713

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

FLEET MAINTENANCE & SHOPS

B30 ROOFING

B3010 ROOF COVERINGS

07500 All roofing included with Prefabricated metal building
SUBTOTAL

-

B3020 ROOF OPENINGS

08600 N/A
SUBTOTAL

\$0

TOTAL - ROOFING

\$0

C10 INTERIOR CONSTRUCTION

C1010 PARTITIONS

04200 Type 7 walls to 12' 3,720 sf 30.00 111,600
04200 Type 7 walls to deck 5,740 sf 30.00 172,200
04200 Type 6 walls under mezz 180 sf 28.00 5,040
04200 Separation wall - main-veh stor 4,320 sf 30.00 129,600
04200 Tool storage screen walls and door 12 lf 420.00 5,040
SUBTOTAL

423,480

C1020 INTERIOR DOORS

08140 Single doors 7 ea 1,500.00 10,500
08140 Double doors 4 ea 2,500.00 10,000
08140 Sidelights 1 ea 600.00 600
08710 Hardware sets 11 ea 400.00 4,400
09900 Paint doors and frames 11 ea 110.00 1,210
07900 Sealants & caulking 8 ea 70.00 560
SUBTOTAL

27,270

C1030 SPECIALTIES / MILLWORK

10475 Plywood backers 1,200 sf 3.00 3,600
06100 Backer panels in electrical /tele/data closets 1 ls 1,500.00 1,500
10475 Fire extinguisher cabinets 4 ea 250.00 1,000
05500 2" expansion jt and covers 100 lf 45.00 4,500
05500 Toilet accessories 1 rm 850.00 850
05500 Interior bollards 15 ea 450.00 6,750
05500 Exterior bollards 15 ea 500.00 7,500
SUBTOTAL

\$25,700

TOTAL - INTERIOR CONSTRUCTION

\$476,450

C30 INTERIOR FINISHES

C3010 WALL FINISHES

09900 Paint to interior CMU and gwb walls 23,600 sf 1.50 35,400
SUBTOTAL

\$35,400

C3020 FLOOR FINISHES

09650 Tile 60 sf 20.00 1,200
09700 Sealed concrete 12,653 sf 1.50 18,980
09700 Line stripping 600 sf 0.50 300
SUBTOTAL

20,480

Schematic Design Estimate

GFA

12,713

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

FLEET MAINTENANCE & SHOPS

C3030 CEILING FINISHES

| | | | | | | | |
|----------------------------------|-----------------------------------|-------|----|------|-------|--|-----------------|
| 09510 | ACT ceilings; 2' x 2' | 1,400 | sf | 4.50 | 6,300 | | |
| 09211 | GWB ceiling | 300 | sf | 7.00 | 2,100 | | |
| 09900 | Paint to GWB ceilings | 300 | sf | 1.10 | 330 | | |
| 09900 | Exposed prefab metal bldg package | | | | | | |
| | SUBTOTAL | | | | | | \$8,730 |
| TOTAL - INTERIOR FINISHES | | | | | | | \$64,610 |

D20 PLUMBING

| | | | | | | | |
|-------------------------|--|--------|----|----------|--------|--|-----------------|
| 15100 | Sub slab vent system | | | | | | NIC |
| 15100 | Trench drains & piping | 60 | lf | 200.00 | 12,000 | | |
| 15100 | Shops Sinks | 2 | ea | 3,500.00 | 7,000 | | |
| 15100 | WC | 1 | ea | 4,500.00 | 4,500 | | |
| 15100 | WH sink | 1 | ea | 4,500.00 | 4,500 | | |
| 15100 | Plumbing Gas Piping to HVAC equip | 300 | lf | 45.00 | 13,500 | | |
| 15100 | Eye wash, drains and misc plumbing connections | 12,713 | sf | 3.50 | 44,496 | | |
| 15100 | Seismic restraints | 1 | ls | 5,000.00 | 5,000 | | |
| 15100 | Testing and sterilization | 1 | ls | 2,000.00 | 2,000 | | |
| | SUBTOTAL | | | | | | 92,996 |
| TOTAL - PLUMBING | | | | | | | \$92,996 |

D30 HVAC

| | | | | | | | |
|---------------------|-------------|--------|----|-------|---------|--|------------------|
| 15300 | HVAC system | 12,713 | sf | 25.00 | 317,825 | | |
| | SUBTOTAL | | | | | | \$317,825 |
| TOTAL - HVAC | | | | | | | \$317,825 |

D40 FIRE PROTECTION

| | | | | | | | |
|--------------------------------|---|-------|----|----------|--------|--|-----------------|
| 15200 | Sprinkler heads | 116 | ea | 160.00 | 18,560 | | |
| 15200 | Branch sprinkler piping with fittings & hangers | 1,160 | lf | 24.00 | 27,840 | | |
| 15200 | Main sprinkler piping with fittings & hangers | 400 | lf | 30.00 | 12,000 | | |
| 15200 | Hydraulic calculations | 1 | ls | 6,500.00 | 6,500 | | |
| | SUBTOTAL | | | | | | \$64,900 |
| TOTAL - FIRE PROTECTION | | | | | | | \$64,900 |

D50 ELECTRICAL

Power Equipment

| | | | | | | | |
|-------|---|--------|----|-------|---------|--|-----------|
| 16100 | Electrical Power and circuitry - Cost portion of switchboard, panels and misc equipment (located in central location) | 12,713 | sf | 10.00 | 127,130 | | |
| | SUBTOTAL | | | | | | \$127,130 |

D5020 LIGHTING & POWER

Lighting & Branch Power

| | | | | | | | |
|-------|-------------------------------|--------|----|------|--------|--|---------|
| 16100 | Lighting and branch circuitry | 12,713 | sf | 6.00 | 76,278 | | |
| 16100 | Equipment power | 12,713 | sf | 5.00 | 63,565 | | |
| | SUBTOTAL | | | | | | 139,843 |

Schematic Design Estimate

GFA

12,713

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|---|--|--------|------|-----------|------------|-----------|------------------|
| FLEET MAINTENANCE & SHOPS | | | | | | | |
| D5030 COMMUNICATION & SECURITY SYSTEMS | | | | | | | |
| <i>Telecommunications System</i> | | | | | | | |
| 16100 | Rough in allowance | 6 | drps | 400.00 | 2,400 | | |
| <i>Fire Alarm</i> | | | | | | | |
| 16100 | Fire alarm system | 12,713 | sf | 2.50 | 31,783 | | |
| <i>Security System</i> | | | | | | | |
| 16100 | Security roughin allowance | 12,713 | sf | 0.50 | 6,357 | | |
| <i>PA/Sound System</i> | | | | | | | |
| 16100 | PA system | | | | NIC | | |
| | SUBTOTAL | | | | | \$40,540 | |
| D5040 OTHER ELECTRICAL SYSTEMS | | | | | | | |
| <i>Lightning protection</i> | | | | | | | |
| 16100 | UL Master label lightning protection | | | | NIC | | |
| <i>Miscellaneous</i> | | | | | | | |
| 16100 | Temp services | 12,713 | sf | 0.40 | 5,085 | | |
| | SUBTOTAL | | | | | 5,085 | |
| TOTAL - ELECTRICAL | | | | | | | \$312,598 |
| G SITEWORK | | | | | | | |
| <u>Structural Excavation and backfill</u> | | | | | | | |
| 02200 | Foundation Perimeter, footings and tie beams | 760 | lf | 35.00 | 26,600 | | |
| 02200 | 6" ADS Perf Perimeter Drain | | | | w/ site | | |
| <u>Underslab piping</u> | | | | | | | |
| 02200 | E&B Trench | 500 | lf | 8.88 | 4,440 | | |
| <u>Slab Prep</u> | | | | | | | |
| 02200 | Slab Prep 9" Stone | 471 | cy | 28.00 | 13,188 | | |
| 02200 | Fine Grade & Compact | 12,713 | sf | 0.50 | 6,357 | | |
| | SUBTOTAL | | | | | 50,585 | |
| TOTAL - SITE DEVELOPMENT | | | | | | | 50,585 |

Schematic Design Estimate

GFA 1,590

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

WASH BAY

GROSS FLOOR AREA CALCULATION

Wash Bay 1,590

| | |
|-------------------------------------|------------------|
| TOTAL GROSS FLOOR AREA (GFA) | 1,590 gsf |
|-------------------------------------|------------------|

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

Strip footings to exterior walls

| | | | | | | | |
|-------|-------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 230 | sf | 15.00 | 3,450 | | |
| 03300 | Re-bar | 242 | lbs | 2.00 | 484 | | |
| 03300 | Concrete material | 13 | cy | 160.00 | 2,080 | | |
| 03300 | Placing concrete | 13 | cy | 40.00 | 520 | | |

Foundation walls at exterior

| | | | | | | | |
|-------|--|-------|-----|--------|--------|--|--|
| 03300 | Formwork | 1,380 | sf | 15.00 | 20,700 | | |
| 03300 | Re-bar | 1,265 | lbs | 2.00 | 2,530 | | |
| 03300 | Concrete material | 36 | cy | 160.00 | 5,760 | | |
| 03300 | Placing concrete | 36 | cy | 40.00 | 1,440 | | |
| 07150 | Dampproofing foundation wall and footing | 690 | sf | 3.50 | 2,415 | | |
| 07210 | Rigid insulation on foundation walls | 690 | sf | 4.00 | 2,760 | | |

Stem wall behind CMU to 4'

| | | | | | | | |
|-------|-------------------|-------|-----|--------|--------|--|--|
| 03300 | Formwork | 800 | sf | 15.00 | 12,000 | | |
| 03300 | Re-bar | 1,100 | lbs | 2.00 | 2,200 | | |
| 03300 | Concrete material | 16 | cy | 160.00 | 2,560 | | |
| 03300 | Placing concrete | 16 | cy | 40.00 | 640 | | |

F5 Column footings

| | | | | | | | |
|-------|-------------------------------|----|-----|--------|-----|--|--|
| 03300 | Formwork | 40 | sf | 15.00 | 600 | | |
| 03300 | Re-bar | 53 | lbs | 2.00 | 106 | | |
| 03300 | Concrete material | 2 | cy | 160.00 | 320 | | |
| 03300 | Placing concrete | 2 | cy | 40.00 | 80 | | |
| 03300 | Set anchor bolts grout plates | 2 | ea | 125.00 | 250 | | |

F8x5 Column footings

| | | | | | | | |
|-------|-------------------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 126 | sf | 15.00 | 1,890 | | |
| 03300 | Re-bar | 128 | lbs | 2.00 | 256 | | |
| 03300 | Concrete material | 8 | cy | 160.00 | 1,280 | | |
| 03300 | Placing concrete | 8 | cy | 40.00 | 320 | | |
| 03300 | Set anchor bolts grout plates | 3 | ea | 125.00 | 375 | | |

Miscellaneous

| | | | | | | | |
|-------|---------------------|-----|----|------|-----|--|--|
| 03300 | Form key in footing | 115 | lf | 4.00 | 460 | | |
|-------|---------------------|-----|----|------|-----|--|--|

Piers

| | | | | | | | |
|-------|-------------------|-----|-----|--------|-------|--|--|
| 03300 | Formwork | 80 | sf | 15.00 | 1,200 | | |
| 03300 | Re-bar | 450 | lbs | 2.00 | 900 | | |
| 03300 | Concrete material | 2 | cy | 160.00 | 320 | | |
| 03300 | Placing concrete | 2 | cy | 40.00 | 80 | | |

SUBTOTAL

67,976

A1020 SPECIAL FOUNDATIONS

No Work in this section

SUBTOTAL

\$0

Schematic Design Estimate

GFA 1,590

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

WASH BAY

A1030 LOWEST FLOOR CONSTRUCTION

| | | | | | | | |
|-------|--------------------------------|-------|----|----------|-------|----------|--|
| | <u>Slab on grade</u> | | | | | | |
| 07210 | Vapor barrier | 1,590 | sf | 0.50 | 795 | | |
| 03300 | Rebar reinforcing | 1,829 | sf | 2.00 | 3,658 | | |
| 03300 | Concrete - 8" thick; 4,000 psi | 42 | cy | 160.00 | 6,720 | | |
| 03300 | Placing concrete | 42 | cy | 35.00 | 1,470 | | |
| 03300 | Finishing and curing concrete | 1,590 | sf | 1.50 | 2,385 | | |
| 03300 | Control joints - saw cut | 1,590 | sf | 0.20 | 318 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 03300 | Column ties | 2 | ea | 1,200.00 | 2,400 | | |
| 03300 | Center drain pit | 1 | ea | 1,500.00 | 1,500 | | |
| | SUBTOTAL | | | | | \$19,246 | |

TOTAL - FOUNDATIONS

\$87,222

B10 SUPERSTRUCTURE

B1020 ROOF CONSTRUCTION

Pre-fabricated Structure (includes steel, insulated metal panels walls and roof) :

| | | | | | | | |
|-------|---|-------|----|----------|--------|----------|--|
| 13000 | Prefabricated metal building package (galv steel, 4" metal panels and metal roof) | 1,590 | sf | 37.00 | 58,830 | | |
| | <u>Miscellaneous</u> | | | | | | |
| 05120 | Overhead door frames | 2 | ea | 2,200.00 | 4,400 | | |
| 05120 | Large window frame | 2 | ea | 1,500.00 | 3,000 | | |
| | SUBTOTAL | | | | | \$66,230 | |

TOTAL - SUPERSTRUCTURE

\$66,230

B20 EXTERIOR CLOSURE

B2010 EXTERIOR WALLS

| | | | | | | | |
|-------|--|-------|----|-------|--------|----------|--|
| | <u>Interior skin</u> | | | | | | |
| 07210 | PVC wall panels on framing system | 2,950 | sf | 9.00 | 26,550 | | |
| | <u>Exterior skin</u> | | | | | | |
| 04200 | CMU veneer | 500 | sf | 32.00 | 16,000 | | |
| 04200 | Air barrier | 500 | sf | 6.00 | 3,000 | | |
| 04200 | Rigid insulation | 500 | sf | 4.00 | 2,000 | | |
| 07461 | Metal Panel system with Prefabricated metal building package | | | | | | |
| | SUBTOTAL | | | | | \$47,550 | |

B2020 WINDOWS

Curtainwall and Aluminum windows

| | | | | | | | |
|-------|---------------------------|--|--|--|------|---|--|
| 07900 | Translucent windows | | | | none | | |
| 06100 | Wood blocking at openings | | | | none | | |
| | SUBTOTAL | | | | | - | |

B2030 EXTERIOR DOORS

| | | | | | | | |
|-------|--------------------------------------|-----|----|-----------|--------|----------|--|
| 08300 | 16'x14' OH at wash bay | 2 | ea | 15,680.00 | 31,360 | | |
| 08100 | 3x7 ext galv doors with vision glass | 2 | ea | 1,500.00 | 3,000 | | |
| 07900 | Backer rod & double sealant | 170 | lf | 5.00 | 850 | | |
| 06100 | Wood blocking at openings | 170 | lf | 6.00 | 1,020 | | |
| | SUBTOTAL | | | | | \$36,230 | |

TOTAL - EXTERIOR CLOSURE

\$83,780

Schematic Design Estimate

GFA 1,590

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

WASH BAY

B30 ROOFING

| | | | | | | | |
|-----------------------------|--|--|--|--|--|-----|------------|
| B3010 ROOF COVERINGS | | | | | | | |
| 07500 | All roofing included with Prefabricated metal building | | | | | | |
| | SUBTOTAL | | | | | \$0 | |
| B3020 ROOF OPENINGS | | | | | | | |
| 08600 | N/A | | | | | | |
| | SUBTOTAL | | | | | \$0 | |
| TOTAL - ROOFING | | | | | | | \$0 |

C10 INTERIOR CONSTRUCTION

| | | | | | | | |
|--------------------------------------|--------------------------------------|-------|----|----------|--------|----------|-----------------|
| C1010 PARTITIONS | | | | | | | |
| 09250 | Type 7 wall | 1,596 | sf | 30.00 | 47,880 | | |
| | SUBTOTAL | | | | | \$47,880 | |
| C1020 INTERIOR DOORS | | | | | | | |
| 08140 | HM door and frame at separation wall | 1 | ea | 1,500.00 | 1,500 | | |
| 08710 | Hardware sets | 1 | ea | 400.00 | 400 | | |
| 09900 | Paint doors and frames | 1 | ea | 110.00 | 110 | | |
| 07900 | Sealants & caulking | 1 | ea | 70.00 | 70 | | |
| | SUBTOTAL | | | | | 2,080 | |
| C1030 SPECIALTIES / MILLWORK | | | | | | | |
| 10475 | Fire extinguisher cabinets | 1 | ea | 250.00 | 250 | | |
| 05500 | Interior SS bollards | 4 | ea | 600.00 | 2,400 | | |
| 05500 | Exterior bollards | 4 | ea | 450.00 | 1,800 | | |
| | SUBTOTAL | | | | | \$4,450 | |
| TOTAL - INTERIOR CONSTRUCTION | | | | | | | \$54,410 |

C20 STAIRCASES

| | | | | | | | |
|----------------------------|---------------------|--|--|--|-----|-----|------------|
| C20 STAIRCASES | | | | | | | |
| 05000 | Glav stair/platform | | | | NIC | | |
| | SUBTOTAL | | | | | \$0 | |
| TOTAL - STAIR CASES | | | | | | | \$0 |

C30 INTERIOR FINISHES

| | | | | | | | |
|----------------------------------|--|-------|----|-------|--------|----------|-----------------|
| C3020 FLOOR FINISHES | | | | | | | |
| 09650 | Sealed concrete | 1,590 | sf | 2.50 | 3,975 | | |
| | SUBTOTAL | | | | | \$3,975 | |
| C3030 CEILING FINISHES | | | | | | | |
| 09900 | Suspended ceiling system w/ PVC panels | 1,590 | sf | 18.00 | 28,620 | | |
| | SUBTOTAL | | | | | \$28,620 | |
| TOTAL - INTERIOR FINISHES | | | | | | | \$32,595 |

Schematic Design Estimate

GFA 1,590

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

WASH BAY

D20 PLUMBING

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|-------------------------|-----------------------------------|-------|------|-----------|------------------|-----------|-----------------|
| D20 | PLUMBING | | | | | | |
| 15100 | Plumbing Waste | 80 | lf | 48.00 | 3,840 | | |
| 15100 | Plumbing Vent | 80 | lf | 45.00 | 3,600 | | |
| 15100 | Plumbing Distribution - 3/4" | 200 | lf | 32.00 | 6,400 | | |
| 15100 | Plumbing Gas Piping to HVAC equip | 200 | lf | 45.00 | 9,000 | | |
| 15100 | Misc plumbing | 1,590 | sf | 3.00 | 4,770 | | |
| 15100 | Plumbing Oil and Gas Seps | | | | Included w/ site | | |
| 15100 | Sub slab vent system | | | | | | NIC |
| 15100 | Trench floor drains | 1 | ea | 8,500.00 | 8,500 | | |
| 15100 | 4x4 center drain | 1 | ea | 2,500.00 | 2,500 | | |
| 15100 | Floor Clean out | 2 | ea | 600.00 | 1,200 | | |
| 15100 | WH | 2 | ea | 1,500.00 | 3,000 | | |
| 15100 | Testing and sterilization | 1 | ls | 1,000.00 | 1,000 | | |
| | SUBTOTAL | | | | | 43,810 | |
| TOTAL - PLUMBING | | | | | | | \$43,810 |

D30 HVAC

| | | | | | | | |
|---------------------|-------------|-------|----|-------|--------|----------|-----------------|
| D30 | HVAC | | | | | | |
| 15300 | HVAC system | 1,590 | sf | 35.00 | 55,650 | | |
| | SUBTOTAL | | | | | \$55,650 | |
| TOTAL - HVAC | | | | | | | \$55,650 |

D40 FIRE PROTECTION

| | | | | | | | |
|--------------------------------|--|-----|----|----------|-------|--------|-----------------|
| D40 | FIRE PROTECTION | | | | | | |
| 15200 | Galv dry sprinkler head | 16 | ea | 165.00 | 2,640 | | |
| 15200 | Galv branch sprinkler piping with fittings & hangers | 160 | lf | 25.00 | 4,000 | | |
| 15200 | Galv main sprinkler piping with fittings & hangers | 60 | lf | 40.00 | 2,400 | | |
| 15200 | Hydraulic calculations | 1 | ls | 2,500.00 | 2,500 | | |
| | SUBTOTAL | | | | | 11,540 | |
| TOTAL - FIRE PROTECTION | | | | | | | \$11,540 |

D50 ELECTRICAL

| | | | | | | | |
|--------------|---|-------|----|-------|--------|----------|-----|
| | Power Equipment | | | | | | |
| 16100 | Electrical Power and circuitry - Cost portion of switchboard, panels and misc equipment (located in central location) | 1,590 | sf | 10.00 | 15,900 | | |
| | SUBTOTAL | | | | | \$15,900 | |
| D5020 | LIGHTING & POWER | | | | | | |
| | Lighting & Branch Power | | | | | | |
| 16100 | Lighting and power | 1,590 | sf | 12.00 | 19,080 | | |
| | SUBTOTAL | | | | | \$19,080 | |
| D5030 | COMMUNICATION & SECURITY SYSTEMS | | | | | | |
| | Telecommunications System | | | | | | |
| 16100 | N/A | | | | | | |
| | Fire Alarm | | | | | | |
| 16100 | Fire alarm system | 1,590 | sf | 3.00 | 4,770 | | |
| | Security System | | | | | | |
| 16100 | N/A | | | | | | |
| | PA/Sound System | | | | | | |
| 16100 | PA system | | | | | | NIC |
| | Misc | | | | | | |
| 16100 | Responder Radio Allowance | | | | | | NIC |
| | SUBTOTAL | | | | | \$4,770 | |

Schematic Design Estimate

GFA 1,590

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

WASH BAY

| | | | | | | | |
|---------------------------------------|--------------------------------------|-------|----|------|-----|-----|--|
| D5040 OTHER ELECTRICAL SYSTEMS | | | | | | | |
| <i>Lightning protection</i> | | | | | | | |
| 16100 | UL Master label lightning protection | | | | NIC | | |
| <i>Miscellaneous</i> | | | | | | | |
| 16100 | Temp services | 1,590 | sf | 0.40 | 636 | | |
| | SUBTOTAL | | | | | 636 | |

| | | | | | | |
|---------------------------|--|--|--|--|--|-----------------|
| TOTAL - ELECTRICAL | | | | | | \$40,386 |
|---------------------------|--|--|--|--|--|-----------------|

| |
|-------------------|
| G SITEWORK |
|-------------------|

| | | | | | | | |
|---|--|-------|----|-------|---------|--------|--|
| <u>Structural Excavation and backfill</u> | | | | | | | |
| 02200 | Foundation Perimeter, footings and tie beams | 240 | lf | 35.00 | 8,400 | | |
| 02200 | 6" ADS Perf Perimeter Drain | | | | w/ site | | |
| <u>Underslab piping</u> | | | | | | | |
| 02200 | E&B Trench | 100 | lf | 8.88 | 888 | | |
| <u>Slab Prep</u> | | | | | | | |
| 02200 | Slab Prep 9" Stone | 59 | cy | 28.00 | 1,652 | | |
| 02200 | Fine Grade & Compact | 1,590 | sf | 0.50 | 795 | | |
| | SUBTOTAL | | | | | 11,735 | |

| | | | | | | |
|---------------------------------|--|--|--|--|--|---------------|
| TOTAL - SITE DEVELOPMENT | | | | | | 11,735 |
|---------------------------------|--|--|--|--|--|---------------|

Schematic Design Estimate

GFA 4,480

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

MEZZANINES

GROSS FLOOR AREA CALCULATION

Mezzanines 1 - 3 4,480

| | |
|-------------------------------------|-----------------|
| TOTAL GROSS FLOOR AREA (GFA) | 4,480 sf |
|-------------------------------------|-----------------|

B10 SUPERSTRUCTURE

B1030 FLOOR CONSTRUCTION

Mezzanine Structure - Steel:

| | | | | | | | |
|-------|---|-------|-----|----------|---------|--|-----------|
| 05120 | Structural steel beams, columns and bracing | 19 | tns | 5,500.00 | 104,500 | | |
| 05120 | Floor deck | 4,704 | sf | 3.25 | 15,288 | | |
| 03300 | Concrete deck | 61 | cy | 225.00 | 13,725 | | |
| 03300 | Finish slab | 4,704 | sf | 0.75 | 3,528 | | |
| | SUBTOTAL | | | | | | \$137,041 |

| | |
|-------------------------------|------------------|
| TOTAL - SUPERSTRUCTURE | \$137,041 |
|-------------------------------|------------------|

C10 INTERIOR CONSTRUCTION

C1010 PARTITIONS

| | | | | | | | |
|-------|----------|--|--|--|--|--|-----|
| 09250 | N/A | | | | | | |
| | SUBTOTAL | | | | | | \$0 |

C1020 INTERIOR DOORS

| | | | | | | | |
|-------|----------|--|--|--|--|--|---|
| 08140 | N/A | | | | | | |
| | SUBTOTAL | | | | | | - |

| | |
|--------------------------------------|------------|
| TOTAL - INTERIOR CONSTRUCTION | \$0 |
|--------------------------------------|------------|

C20 STAIRCASES

C20 STAIRCASES

| | | | | | | | |
|-------|-----------------------|-----|-----|----------|--------|--|----------|
| 05000 | Stair systems | 4 | flt | 7,000.00 | 28,000 | | |
| 05000 | Guard rails/gates | 240 | lf | 150.00 | 36,000 | | |
| 09900 | Paint guardrails | 240 | lf | 15.00 | 3,600 | | |
| 09900 | Paint stair and rails | 4 | flt | 2,650.00 | 10,600 | | |
| | SUBTOTAL | | | | | | \$78,200 |

| | |
|----------------------------|-----------------|
| TOTAL - STAIR CASES | \$78,200 |
|----------------------------|-----------------|

C30 INTERIOR FINISHES

C3010 WALL FINISHES

| | | | | | | | |
|-------|---|--|--|--|--|--|-----|
| 09900 | Exposed, walls and panels and steel by Prefabricated metal bldg | | | | | | |
| | SUBTOTAL | | | | | | \$0 |

C3020 FLOOR FINISHES

| | | | | | | | |
|-------|---------------|-------|----|------|-------|--|---------|
| 09680 | Seal concrete | 4,480 | sf | 1.50 | 6,720 | | |
| | SUBTOTAL | | | | | | \$6,720 |

C3030 CEILING FINISHES

| | | | | | | | |
|-------|--|--|--|--|--|--|-----|
| 09250 | Exposed deck and steel by Prefabricated metal bldg | | | | | | |
| | SUBTOTAL | | | | | | \$0 |

| | |
|----------------------------------|----------------|
| TOTAL - INTERIOR FINISHES | \$6,720 |
|----------------------------------|----------------|

Schematic Design Estimate

GFA

4,480

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|---|---|-------|------|-----------|------------|-----------|-----------------|
| MEZZANINES | | | | | | | |
| D30 HVAC | | | | | | | |
| 15300 | D30 HVAC, GENERALLY HVAC portion of base system | 4,480 | sf | 3.00 | 13,440 | | |
| | SUBTOTAL | | | | | \$13,440 | |
| TOTAL - HVAC | | | | | | | \$13,440 |
| D40 FIRE PROTECTION | | | | | | | |
| 15200 | D40 FIRE PROTECTION, GENERALLY Wet upright sprinkler head | 30 | ea | 160.00 | 4,800 | | |
| 15200 | Branch sprinkler piping with fittings & hangers | 300 | lf | 24.00 | 7,200 | | |
| 15200 | Main sprinkler piping with fittings & hangers | 200 | lf | 30.00 | 6,000 | | |
| 15200 | Hydraulic calculations | 1 | ls | 5,000.00 | 5,000 | | |
| | SUBTOTAL | | | | | \$23,000 | |
| TOTAL - FIRE PROTECTION | | | | | | | \$23,000 |
| D50 ELECTRICAL | | | | | | | |
| Power Equipment | | | | | | | |
| 16100 | Electrical Power and circuitry - Cost portion of switchboard, panels and misc equipment (located in central location) | 4,480 | sf | 4.00 | 17,920 | | |
| | SUBTOTAL | | | | | \$17,920 | |
| D5020 LIGHTING & POWER | | | | | | | |
| Lighting & Branch Power | | | | | | | |
| 16100 | Lighting and power | 4,480 | sf | 3.00 | 13,440 | | |
| | SUBTOTAL | | | | | \$13,440 | |
| D5030 COMMUNICATION & SECURITY SYSTEMS | | | | | | | |
| Telecommunications System | | | | | | | |
| 16100 | N/A | | | | | | |
| Fire Alarm | | | | | | | |
| 16100 | Fire alarm system | 4,480 | sf | 2.00 | 8,960 | | |
| Security System | | | | | | | |
| 16100 | N/A | | | | | | |
| PA/Sound System | | | | | | | |
| 16100 | PA system | | | | | | |
| | SUBTOTAL | | | | | \$8,960 | |
| D5040 OTHER ELECTRICAL SYSTEMS | | | | | | | |
| Miscellaneous | | | | | | | |
| 16100 | Temp services | 4,480 | sf | 0.40 | 1,792 | | |
| | SUBTOTAL | | | | | 1,792 | |
| TOTAL - ELECTRICAL | | | | | | | \$42,112 |

Schematic Design Estimate

| CSI CODE | DESCRIPTION | QTY | UNIT | UNIT COST | EST'D COST | SUB TOTAL | TOTAL COST |
|----------|-------------|-----|------|-----------|------------|-----------|------------|
|----------|-------------|-----|------|-----------|------------|-----------|------------|

INDUSTRIAL EQUIPMENT

| | |
|----------|-----------------------------|
| A | INDUSTRIAL EQUIPMENT |
|----------|-----------------------------|

Fixed Equipment

| | | | | | | | |
|-------|--|---|----|--------|--------|--|---------|
| 13000 | Heavy Duty Vehicle Lift (Fixed) | 1 | ls | 85,000 | 85,000 | | |
| 13000 | Heavy Duty Vehicle Lift (Portable) | 1 | ls | 40,000 | 40,000 | | |
| 13000 | Light Duty Vehicle Lift (16,000 lb capacity minimum) | 1 | ls | 65,000 | 65,000 | | |
| 13000 | Bridge Crane | 1 | ls | 35,000 | 35,000 | | |
| 13000 | Overhead Lubrication System | 1 | ls | 80,000 | 80,000 | | |
| 13000 | Miscellaneous Shop and Support Equipment | 1 | ls | 50,000 | 50,000 | | |
| 13000 | Storage Shelving / Benches / Racks | 1 | ls | 25,000 | 25,000 | | |
| 13000 | Exhaust Removal System (2 units) | 2 | ea | 15,000 | 30,000 | | |
| | SUBTOTAL | | | | | | 410,000 |

2 Washbay Equipment

| | | | | | | | |
|-------|-------------------------------------|---|----|-----------|--------|--|----------|
| 13000 | Wash Equipment | 1 | ls | 65,000.00 | 65,000 | | |
| 13000 | Wash Equipment - Undercarriage Wash | 1 | ls | 30,000.00 | 30,000 | | |
| | SUBTOTAL | | | | | | \$95,000 |

| | | | | | | | |
|-------------------------------------|--|--|--|--|--|--|------------------|
| TOTAL - INDUSTRIAL EQUIPMENT | | | | | | | \$505,000 |
|-------------------------------------|--|--|--|--|--|--|------------------|