1. Prepare a complete recap sheet for the Ann Arbor Fire Station No. 6 using the attached subcontractor and vendor bids. For each Specification Division itemize the subitems and show their price. Use the generalized form of the recap sheet shown in your textbook (Fig. 5.7, p. 112, 6th Ed.). Note that work to be done by the prime contractor is to be broken down by material and labor components. **Don't forget alternates.**

2. Prepare a proposal on the form provided. It must be dated and signed.

3. You may use a subcontractor for work you have estimated.

4. Explain every number on your recap sheet by using a backup sheet that shows where each number came from. The backup sheet should be complete and also easy to understand. For example, if you use a sub's quote, show its name, the page from which the number comes from, what items of work it includes, what other costs were added or subtracted from it, their source, and everything else needed to trace your steps.

5. Make sure you do not leave any cost item out of your estimate. For example, if you use a hoist, make sure you have a cost for it, even if you eventually embed it in another number such as miscellaneous expenses. You should also consider, for example, the cost of bringing the hoist to the site and removing it at the end of the work. Your coverage of cost items should be complete.

6. The information provided includes costs for all items of work except for the small wood fence (screen) around the garbage dumpster. Read the attached notes on estimating carpentry and do your own quantity takeoff (use Fogerty quantities only as a check) and cost estimate. You may assume that the Valence Carpentry bid includes all carpentry except kitchen cabinets and dumpster screen. Custom Carpenters’ price covers cabinets and countertops installed. This leaves only the dumpster screen to be estimated.

7. Assume a tax rate of 6% on materials only. The tax for materials purchased by subcontractors is already included in their prices and will be paid by them directly. Project OH equals 10% of the direct costs for the work items (including tax). Do not include a separate item for bonds. It is included in project OH. Add a G&A OH of 5% of the project's direct cost. Select your own profit markup.

You are expected to correct and include with your proposal **all** previous estimates made by you. Show the corrections on the original sheets or add an extra page after the page being corrected (number the added pages as 5A, 17A, etc.) and note the change where a correction occurs.

Bind all proposal sheets and corrected detailed estimate sheets together in a folder. This completed project estimate will not be returned until after you graduate.

Bids will be opened and read aloud at submission time in class.
OWNER: The City of Ann Arbor  
A Michigan Municipal Corporation

Contract: General Contract for the Construction of a New Fire  
Station for the City of Ann Arbor to be known as Ann Arbor Fire Station #6 located at:

Name of Bidder: 
Address:

GENTLEMEN:

The Bidder, in compliance with your invitation for bids for the construction of a New Fire Station, having examined the plans and specifications with related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Proposal is a part.

The Bidder hereby agrees to commence work under this Contract on or before a date to be specified in a written "Notice to Proceed" by the Owner and to fully complete the project within the specified allotted consecutive calendar days thereafter as stipulated below.

BASE PROPOSAL

The Undersigned agrees to enter into an agreement with the Owner to complete the work set forth in the Contract Documents for the sum of:

$ __________  

TIME FOR COMPLETION

- The Undersigned agrees to complete the work under the Base Bid within _______ consecutive calendar days after the date of official award of the Contract.
ALTERNATES

ALTERNATE NO. 1: a - Delete light weight concrete block walls with painted finish from Rooms #6, 7, 8, 9, 10, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31 and 32. See Room Finish Schedule for wall locations.

Deduct $___________________

b - Add face ground single scored concrete block. Clean block and field apply one (1) coat clear acrylic matte finish coating. Applicable to above mentioned rooms only.

Add $___________________

ALTERNATE NO. 2: a - Delete 2 x 4 lay-in acoustical ceiling tile and exposed ceiling suspension system from Rooms #7, 8, 17, 20.

Deduct $___________________

b - Add suspended drywall metal furring system and 1/2" gypsum board ceiling to the above mentioned rooms. Provide USG 200-B metal edge to drywall at abutments to vertical surfaces.

Add $___________________

ALTERNATE NO. 3: a - Delete two (2) panel brick wing walls, 190 sf. of 12" light weight concrete block, drywall at wing walls, lean-to skylight, metal flashing, and 190 sf. of 8" light weight concrete block.

Deduct $___________________

b - Add two (2) 1-4 lintels spanning 4'-0" each, roof system of 3-ply built-up roof over 1/2" fiberboard over 4" rigid insulation over 1-1/2" metal deck and 14H4 steel joists required to cover 125 square feet of roof area, 190 square feet of panel brick with 1-1/2" rigid insulation and 8" light weight concrete block back-up, and drywall ceiling on 2 x 4 wood framing for an 8'-0" ceiling heights.

Add $___________________

ACCEPTANCE OF PROPOSAL

The Undersigned agrees to execute a contract for work covered by this proposal provided that he be notified of its acceptance within sixty (60) days after the opening of proposal.

Date ______________________ Name of Bidder ______________________

By ______________________

Type Name: ______________________
Carpentry Estimating

Rough Carpentry

All structural wood or sheathing - typically, wood which doesn't show (except for large structural members or heavy decking which might show)
Includes wood studs, plates, joists, rafters, girders, furring for paneling, siding, soffits, subfloor, and nailers for finish carpentry. Typical members are 2 x 2, 2 x 4, 2 x 6, etc.; 4 x 4, 6 x 6, etc; rough plywood, asphalt impregnated sheathing. Also includes insulation in such wood framed walls. Quantity take off by linear feet of wood or sq. ft. of area, whichever is appropriate. The linear feet of wood of each size is converted to FBM (foot board measure) for pricing. Different sizes of softwood and thicknesses of sheathing and subfloor will vary in price, as will different grades of each. Although all 2 x 4 used on the site will probably have the same price per FBM (unless the grade changes), the labor in hr/FBM will vary for each use. Plywoods may vary in cost/sq. ft. as well as labor in hr/sq. ft. because the thickness or grade may vary.

Finish Carpentry

Exposed wood which is finished to be seen (except heavy beams and decks). Includes interior paneling and exterior siding; wood trim for doors, windows, walls, etc.; construction of cabinets (often shop built by supplier) and finish wood flooring. Also includes installation of doors and windows (wood, aluminum, hollow metal); accessories (bathroom, kitchen, stair, classroom, office, etc.) on plaster, drywall, concrete, and wood; finish hardware (on doors, windows, cabinets, etc.); and cabinets.

Quantity take off by units of each (ea.) except by linear foot of each type of trim and FBM for wood siding and paneling and sq. ft. of plywood (or asbestos cement, or hardboard, etc.) paneling and siding. Finish carpentry wood items will be stained or painted but not by carpenters (or in finish carpentry).
These are the actual bids received by the 2nd lowest bidder on this project. Most bids were received by telephone. Those that were received by mail, either before or after bidding was closed, are included. These can be identified by their more careful arrangement of information, such as in a table. Significant preprinted information on the bids received by mail is shown in Times Font, for the information of the reader.

All bids have been indexed to reflect inflation in building construction costs, using the ENR Building Cost Index (BCI):

<table>
<thead>
<tr>
<th>Year</th>
<th>BCI</th>
<th>Recent BCI</th>
<th>Multiplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>1976</td>
<td>3541</td>
<td>1.79</td>
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</tbody>
</table>

The Michigan State Sales Tax used in calculating all Tax values = 6%

### Yuma Asphalt Paving

Sitework, balancing & cutting, sandfill under the building, asphalt paving per p&s, no concrete, no block pavers, no excavation for footings. Does include topsoil.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yuma Asphalt Paving</td>
<td>$72,190.88</td>
</tr>
<tr>
<td>Earthwork, complete section 2A</td>
<td>$36,780.00</td>
</tr>
<tr>
<td>Stripping - 1 dozer 5 days</td>
<td>$2,580.00</td>
</tr>
<tr>
<td>Fine grade - 1 dozer 2 days</td>
<td>$1,290.00</td>
</tr>
<tr>
<td>1 loader 1 day</td>
<td>$650.00</td>
</tr>
<tr>
<td>remove 1200 CY @ 4.50</td>
<td>$5,400.00</td>
</tr>
<tr>
<td>fill sand 1350 CY</td>
<td>$10,280.00</td>
</tr>
<tr>
<td>1167 lin. ft. 30 ft/hr @ 200</td>
<td>$7,780.00</td>
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<tr>
<td>fill</td>
<td>$8,100.00</td>
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<tr>
<td>misc</td>
<td>$700.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$36,780.00</td>
</tr>
</tbody>
</table>

### Best Nursery

4-3" Sugar Maple $450 $1,800.00
18-5'-6' Austrian Pine $180 $3,240.00
86 - 2 gal 12"-15" Dense Yew $27.00 $2,322.00
2 - 3" Ash $493 $986.00
550 - 6" Cotoneaster $13.00 $7,150.00
1 - 3' - 4' Dogwood $63.00
**Total** $15,561.00

Mulch $900.00
grade $700.00
Sod $3,200.00
Seed Pond area $1,400.00
60 day maintenance $1,800.00
**Total** $8,000.00

400 Monoslab $3,600.00
Sand $400.00
Fine dirt $200.00
Seed $200.00
**Total** $4,400.00

Labor $4,400.00
**Total** $8,800.00

**Total** $32,361.00
Avid Paving
complete paving (including bike path) $39,628
grade plus or minus of a foot, 8" of 21AA Prime it, 1 1/2" of 25A Binder,
1" of 31A Wearing and Stripe it

Topps Landscaping
complete landscaping $27,200
includes top soil, trees, shrubs, woodchips, sod, and mono slab grass pav. blocks

Firmit
complete landscaping $32,987
total figure includes mono-slab grass pavers at $6,466

Kromm Construction
Section 3 Concrete complete (all concrete) $155,098
includes grades and covers for mechanical drain system, no excavation $87,254
flatwork $11,849
curb & gutter $99,121
grades & covers, steel only $17,024

Daren Construction
Concrete curb/gutter and paving as shown
on architects drawing Sh.-A-2 dated 10-8-80

1 - Ann Arbor Standard curb & gutter 428LF @ $14.00 $5,992.00
2 - Gutter pan at Eisenhower 95 LF @ $11.00 $1,045.00
3 - 8" Reinf. concrete apron 6141SF @ $5.00 $30,705.00
4 - 8" reinf. concrete dumpster pad 54 SF @ $5.00 $270.00
$38,012.00

By others:
1 - Demolition and removal
2 - Grade to +/- .10 foot
3 - Acceptable layout and engineering
4 - Sandfill if required
5 - Permits and inspection fees

W&L Wall Co.
Contract price $45,700.00
Price includes all perimeter insulation, re-rod labor and material.
All interior walls poured concrete.
24" concrete column only poured to first floor elevation.
Excavation by others.

Caston Steel
Div. 5A, B, C, D, E, complete labor and mat'l $86,670
add to base price: alum. ladder and cage and hose tower $4,000
Alternate #3, add $1,700

Parsons Steel
Structural steel, misc., & joists - 5A, B, E, complete labor and mat'l. $108,656
Not to include metal decking, no cast iron drain trench.
Joists are with standard grey paint. No quote on alternate #3.

Rassco Structural Steel
Structural steel, joists, roof decks; misc. iron - Div. 5A, C, D - labor
and material complete. $104,700
Excludes ceiling extensions. Excludes stainless steel.
Alternate #3, add $1,846
Early Corporation
Approx. 8 1/2 tons reinforcing steel, grade 60. Fabricated per plans and specs. with placement drawings if required. (Bar supports not included) Take off made per dwgs: #1 thru #8, S1 & S2, Dated: 9/29/80. Nothing included for Alt's or Add'ms.

$6,086.00 Lump Sum

<table>
<thead>
<tr>
<th>TIE WIRE: 16 Gauge Unit Price</th>
<th>$ 3.90 / Coil</th>
</tr>
</thead>
<tbody>
<tr>
<td>MESH REINFORCEMENT: 6x6 10/10 W.W.F. Approx. 5,250 S.F. 7 Rolls (10% Lap Included)</td>
<td>65.86 / Roll</td>
</tr>
<tr>
<td>6x6 4/4 W.W.F. Approx. 1,800 S.F. 15 (8'x15') Shts. (10% Lap Included)</td>
<td>26.20 / Csf</td>
</tr>
<tr>
<td>CURE: &quot;AR 30-C&quot; by W.R. Meadows Approx. 9,700 S.F. 55 gals</td>
<td>6.90 / Gal</td>
</tr>
<tr>
<td>VAPOR BARRIER: 8 Mil Visqueen Approx. 9,000 S.F. 5 (20'x100') rolls</td>
<td>103.20 / Roll</td>
</tr>
<tr>
<td>PERIMETER INSULATION: 2&quot;x24&quot; Styrofoam SM (Dow Chemical) Approx. 960 S.F. 60 sheets</td>
<td>1.18 / S.F.</td>
</tr>
<tr>
<td>CAVITY WALL INSULATION: 1 1/2&quot; x 24&quot; Styrofoam SM (Dow Chemical) Approx. 8,240 S.F. 515 sheets</td>
<td>0.815 / S.F.</td>
</tr>
<tr>
<td>COLUMN FORMS: Sonotube 24&quot; Dia. Approx. 4 (20') Sections</td>
<td>13.33 / L.F.</td>
</tr>
<tr>
<td>EXPANSION JOINT FIBRE: Asphalt ASTM D-944 (Full Depth) 1/2&quot; x 10&quot; Approx. 5 L.F.</td>
<td>1.030 / L.F.</td>
</tr>
<tr>
<td>1/2&quot; x 8&quot; Approx. 115 L.F.</td>
<td>0.835 / L.F.</td>
</tr>
<tr>
<td>1/2&quot; x 7&quot; Approx. 450 L.F.</td>
<td>0.742 / L.F.</td>
</tr>
<tr>
<td>1/2&quot; x 4&quot; Approx. 790 L.F.</td>
<td>0.450 / L.F.</td>
</tr>
<tr>
<td>1/2&quot; x 3 1/2&quot; Approx. 125 L.F.</td>
<td>0.398 / L.F.</td>
</tr>
<tr>
<td>TRENCH DRAIN: ERSCO Voluntary Alternate; ERSCO suggests Aco Drain w/ Cast Iron Grating, Locking devices, and end caps Approx. 157 L.F.</td>
<td>48.67 / L.F.</td>
</tr>
<tr>
<td>EXTERIOR PAVING MESH REINFORCEMENT: 6 x 6 8/8 W.W.F. Approx. 6,750 S.F. 9 Rolls</td>
<td>$93.00 / Roll</td>
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<tr>
<td>EXTERIOR CURE: &quot;AR 30-C&quot; by W. R. Meadows Approx. 5,700 S.F. 30 Gals.</td>
<td>6.90 / Gal</td>
</tr>
<tr>
<td>GROUT: &quot;Sonogrout: by Sonneborn Non-Shrink, Non-Metallic, Pre-mixed 1 bag (55/lbs Yields .5 cu/ft Unit price</td>
<td>20.60 / bag</td>
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<tr>
<td>Nox-Crete Form Coating 55/Gal Drums Covers: 500 to 1,000 S. F.</td>
<td>6.90 / Gal</td>
</tr>
<tr>
<td>Perfect Form Sprayers (Plastic - 2 gal. tank, use w/Form Coating)</td>
<td>72.00 / each</td>
</tr>
<tr>
<td>Perfect Concrete Sprayers (Plastic - 3 gal. tank, use w/Cure, Form Gard, etc)</td>
<td>75.00 / each</td>
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</table>
Henderson Company  
masonry, total $259,169  
alternate #1 deduct $21,500 add $50,042

Block Inc.  
Section 4A $252,800  
alternate #1 deduct $36,000 add $86,700  
alternate #3 deduct $2,380 add $3,200

D&G Steel Co.
We propose to furnish and erect the Structural Steel for the above named project per plans and specs as prepared by Meneghini Overhiser Assoc. and as listed below:

Includes: Division 5A - Structural Steel  
Columns and Beams and Bracing - Furnish and Erect  
Anchor Bolts, Set Plates and Bearing Plates - Furnish only  
Lintels - Furnish only  
Grout and Grouting - NOT included  
Division 5B - Steel Joist - Furnish and Erect  
Division 5C - Metal Roof Deck - Furnish and Erect  
Division 5D - Metal Floor Deck (Corrugated - Galvanized) - Furnish and Erect  
Division 5E - Miscellaneous Metals  
Aluminum hose tower ladder - Furnish and erect  
Hoist Track - Furnish and erect  
Hose Drying Hangers - Furnish only  
Head Tower Platform and Grating - Furnish and Erect  
Interior Pipe Handrail - Furnish and Erect  
Interior Stairs - Furnish and Erect  
Exterior Sign Support - Furnish only (sign NOT included)  
Storage Racks - Furnish and Erect  
Antennae Supports - Furnish only  
Antennae Pipe - Furnish and Erect  
Pipe Bollards - Furnish only  
Door Corner Guards - Furnish only  
Metal Joist Hangers (not shown) NOT included  
Trench Drain Castings - NOT included  
Exterior Ladders (not shown) - NOT included  
Field finish paint - NOT included  
Aluminum materials and galvanizing - NOT included

ALL FOR THE SUM OF $131,800

Atl. #3 - Add $3,000
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<tr>
<th>PCS</th>
<th>Size</th>
<th>Lgt.</th>
<th>Board Feet</th>
<th>Lineal Feet</th>
<th>Description</th>
<th>Price</th>
<th>Extension</th>
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<tr>
<td>11</td>
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<td>10</td>
<td>147</td>
<td></td>
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<td>921.00</td>
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<tr>
<td>8</td>
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<td>12</td>
<td></td>
<td></td>
<td>#2 &amp; Btr KD SPF* rails</td>
<td>3.85</td>
<td>30.82</td>
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<td>2</td>
<td>2 x 4</td>
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<td>Tomoca Rough Cedar Fence</td>
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<tr>
<td>4</td>
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<td>12</td>
<td></td>
<td>Tomoca Rough Cedar Fence</td>
<td>1,355.00</td>
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[*Note: SPF = spruce-pine-fir; KD = kiln dried*]

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<tr>
<td>12</td>
<td>L x 8</td>
<td>1/2</td>
<td></td>
<td></td>
<td>5 ply fir CDx sheeting</td>
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<td>2 x 6</td>
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<td></td>
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<td>34.25</td>
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<td>1</td>
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<td>28</td>
<td></td>
<td>Standard Idaho White Pine</td>
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**Ceiling Materials**

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**Page 5**
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Tax $283.38

Total Trim $5,006.30

Alternate #3

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$88.53

Tax $5.31

Deduct F/12 (page 2) $93.84

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$226.70

13.60

$240.30

deduct difference $146.46

Summary

Rough $3,234.38

Interior Trim 5,006.30

$8,240.68

Alternate - see deduction

Omissions!

Windows HM frames /doors
rough or finish hardware
Plastic laminated - cabinets
Vanities

Door #19 figured as white pine
Not birch
Custom Carpenters  
carpentry section 6 - cabinets and countertops installed  
If exact sizes of cabinets are required, total bid is  
$26,081 $33,996

Laminations  
Inc. Div. 6A, Sec. 15 Carpentry  
furnish and deliver only cabinets and countertops for kitchen  
room #23 & day room #20, no taxes  
$10,168

Designer, Inc.  
Kamwood laminate cabinets  
Dayroom: Wilson Art D 36-6 dark bronzo  
all seven cabinets can be same size for no additional cost  
Kitchen: Nevamar gray to replace Micarta 91 M 12 string  
This price includes tax and delivery  
This price does not include installation or countertops  
$3,200 $3,736 $6,936

Valence Carpentry  
finish woodwork, Div. 6 complete, materials & labor & tax  
no kitchen cabinets, no dumpster screen  
$13,600

French Millwork  
complete millwork materials include tax  
exclusions are (1) door hardware, (2) dumpster screen wall, (3) rough  
$17,560

Doran Roofing  
roofing 7A & 7B complete, labor & materials  
does not include 3 oz copper flashing for brick mason.  
Alternate #3 add if skylights are installed.  
$76,200 $1,340

F&R Roofing  
roofing 7A & sheet metal 7B labor & materials  
fabric flashing to be furnished thru masons is not included  
$88,790

Josh Co.  
built up roof and sheet metal, 7A & 7B complete  
7B only includes sheet metal related to roof.  
Thru wall flashings furnished to masonry trade add  
alternate #3 add  
$78,463 $13,686 $941

Padley Co.  
caulking complete  
$869

Allot-Sloan Co.  
roof accessories 7D material only  
1 Wasco skylight  
$12,700

Naturalite Inc.  
material only  
We propose to furnish the following items for above captioned project which,  
upon acceptance, becomes a purchase order.  
No sales, Use, State or City Taxes of any kind are included in the price and  
when applicable must be assumed by the purchaser  
NATURALITE Lean-to skylight is specified by the architects.  
1 -Model LSSTDD Naturalite double glazed Lean-to skylight  
5' 6" up the slope x 32' long O.D. of curb  
Plastic is clear over clear Rohm & Haas Plexiglas plastic.  
Framing is mill finished aluminum  
The skylight abuts the building at top and  
both ends - 20 degree slope  
$5,820.00  
Tax 350.00  
Freight allowed and tax included  $6,170.00
Bohem Skylight  Alternate #3  Delete
We propose to furnish and install:

1 Model SPF sloped aluminum Skylight with double glazed acrylic sheets $9,410.00
Finish - Mill Natural aluminum
Size - 1 - 5' - 6 x 31 - 0

Add for bronze anodized aluminum $2,150.00

The above price is furnished and installed with tax included

Dexter Doors  labor & materials - overhead doors $51,128
(6) overhead doors motorized; (4) fixed panels. All wiring by others, all glazing by others.
Has not seen addendum 3 and phoned contractor to inform him that price would change upward by several thousand.

Doors, Inc.  8B section 6 overhead doors, installed $48,920
(6) doors, (6) operators & controls, (4) fixed panels. Electric wiring NIC
Electric wiring NIC. Alum. covers over columns NIC.
All addenda acknowledged.

Crandall Door Sales  8B-6 complete, labor & materials include overhead doors & operators per plans & specs. All addenda acknowledged. $39,240

Valid Products
We propose to furnish the following materials for the above structure, in accordance with the terms printed below.

7 Fenestra 1 3/4 Hollow Metal Doors
19 Fenestra 1 3/4 Hollow Metal Frames
7 Fenestra 1 3/4 Hollow Metal Panels

Lump Sum $2,850.00  Sales tax included $5,110.00

Victor Supply Co.  8A materials only.
Part I: 19 hollow metal frames; 5 hollow metal doors based on Steelcraft as alternate $4,543
Part II: 6 thresholds $140

Argot Door  hollow metal doors and misc. accessories
Currier H.M. doors: (7) doors 18 ga., (3) HM panels 18 ga., 19 HM frames 16 g., materials only $4,632

Misc. access - (2) grab bars, (3) toilet paper holders,
(1) paper towel dispenser, (1) waste receptacle, (7) soap disp.,
(1) towel bar, (1) shelf, (1) mop holder, (1) towel drying rack, materials only $1,192

Aero Metals  8A hollow metal doors & frames, materials $5,910
Illinois Metal Doors

Subject to the provisions hereof we propose to furnish only (F.O.B. factory freight allowed to job size) the products described below for the sum of $5,730.00

Progress payments: Net 30 days from date of each invoice without retention
All sales taxes are included in the above price.
SCOPE: The products to be furnished under this proposal are limited to those described below as specified in specification Sections or Division ____________ as shown on the architectural drawings dated ______________ last revised ____________ and the following addenda and bulletins only.
_______________ but subject to the exclusions and qualifications stated below

Hollow Metal Doors and Frames Per Plans and Specifications 8A

Material Only: 19 frames
7 doors
7 panels

Clerk Supply

Subject to the provisions hereof we propose to furnish only (F.O.B. factory freight allowed to job size) the products described below for the sum of $5,380.00

Progress payments: Net 30 days from date of each invoice without retention
All sales taxes are included in the above price.
SCOPE: The products to be furnished under this proposal are limited to those described below as specified in specification Sections or Division Division 8A as shown on the architectural drawings dated September 29, 1980 last revised not revised and the following addenda and bulletins only.
No Addenda or bulletins but subject to the exclusions and qualifications stated below

3 ea Series F-16-4, 16 gage 2" x 5 3/4" J. D. (jamb depth) standard three-sided transom frames without transom bars for use with transom panels, S.U.A. (set up, arcwelded and ground smooth).

16 ea Series F-16-4, 16 gage 2" x 8- 3/4" J.D. standard three-sided transom frames without transom bars for use with transom panels, S.U.A.

7 ea Series LF-18-4, 18 gage 1-3/4" full flush seamless type "F" doors with transom panels per plans.

All material quoted above is of standard design as manufactured by the Steelcraft Manufacturing Co., Cincinnati, OH.

For furnishing hollow metal doors with polystyrene insulation in lieu of Steelcraft's standard impregnated kraft honeycomb core add $25.00 per door, and for polyurethane insulation add $95.00 per door. For furnishing vinyl top and bottom caps installed on exterior doors add $13.00 per door, and for steel top and bottoms add $35.00 per door.

Service and quality are out greatest assets. May we have the opportunity to serve you.
**Davis Glass** | aluminum, glass and glazing complete | $37,100
---|---|---
| exclude skylights and skylight glass. No cleaning or protection.

**Michgian Plate Glass**

As Per Plans and Specifications

Prepared by **Meneghini Overhiser Associates**

Architect

For the sum of (tax included) $37,300

Section 8B - Glass, Glazing and Aluminum work

Addendums 1, 2, & 3 Noted

no cleaning

No aluminum overhead doors and matching fixed panel between doors

No aluminum facing over steel tube supports @ overhead doors.

No glass and glazing at overhead doors.

This proposal is offered subject to approval of credit by our Credit Department.

In the event your acceptance and/or contract contains provisions other than those stated herein, we reserve the right to withdraw this proposal.

**Chatham Glass** | glass & glazing complete | $33,500
---|---|---

**Valley Glass** | 8B, excluding overheads doors, complete | $31,000
---|---|---

skylight not included. No final cleaning

**Legats** | 9A, accoustical, complete | $3,401
---|---|---

not including Room #10, 20, 23, 25 shown to be drywall

alternate #2 deduct | $3,401

Also - per finish schedule and details for 4" vinyl or rubber base shown, complete | $487

**Dolan Ceiling** | 9A&B, acoustical & drywall, complete | $15,450
---|---|---

no anchors in angle mold - use shots

alternate #2 add | $1,940

alternate #3 add | $630

**Towlan** | 9A, acoustical complete | $3,580
---|---|---

Alternate bid would omit all acoustical ceiling

**Huron Ceiling** | acoustic 9A; drywall 9B; insulation over exterior soffit part of 6A; access flooring (misc) | $27,285
---|---|---

Entire bid includes metal suspension throughout and dry wall channels

Alternate 2, add. | $2,260

Alternate 3, add | $340

**Heavy Acoustics** | drywall & acoustics, complete, includes all suspension for drywall. | $13,039
---|---|---

Alternate #2 - add | $2,106

alernatre #3 - add | $448
Sulcon tile
Description of work included in this proposal: Section 9C tile
Addenda included: #1, #2, #3

Material allowance: 4 x 8 x 1 1/2 Pavers @ $3.35 per ft. (tile only)
Material allowance: 4 x 8 x 2 1/4 Pavers @ $10.75 per thousand (pavers only)

The job will be done for aggregate $13,037

Farsome Title 9C ceramic tile, brick pavers complete $10,800

Share title 9C, ceramic tile & pavers, complete $15,116

B&C Painting 9D painting complete $22,633
Base bid: painting $19,327
fabric $3,306
alternate #1 deduct $1,726
alternate #2 add $982

Landy painting $21,500
alternate #1 add $1,133
alternate #2 add $161

Tims Company
hollow metal doors and frames including panels, delivered only $5,455
toilet partitions, installed $806
toilet access & mirrors, delivered only $2,459
metal lockers, installed $2,236

W. I. Products
We propose to furnish, deliver, and install the following: METAL TOILET PARTITIONS

SECTION 10A1 -- TOILET PARTITIONS

Manufacturer: Global Steel Products Corp.
Type: MONARCH (wall hung with no connection to floor or ceiling). Walls must be sufficient strength and construction to support partitions.

Finish: Baked enamel on galvanized-bonerized steel in standard GLOBAL color.

QUANTITY: 2 Stalls with doors 3' - 0" x 4' - 9" deep. (NOTE -- plans show 5' - 0" deep)
1 Wall hung screen

Price: $2,420
Net, installed, including Michigan sales tax.

League, Inc. 10A, toilet partitions installed complete $2,733
**BIP**

Division 10B - TOILET ACCESSORIES (complete section)

- Grab Bar
- Towel Dispenser
- Toilet Paper Holder
- Waste Receptacles
- Soap Dispenser
- Towel Rail
- Mirror
- Utility Shelf
- Mop Holder
- Towel Drying Rack

Furnish and deliver to job site items of Toilet Room Accessories per plans and specifications. $1,602

Section 10C - Miscellaneous Items

- Closet Rod
- Coat Hook
- Wall Hooks

Furnish and deliver to job site items of Miscellaneous items per plans and specifications $439

**Aero Metal**

10B partial, toilet room accessories, materials only $2,200

**Scheer**

Flagpole page 10C-2, item P, FOB jobsite if we erect, add $1,299 $323

**Busy Line Products**

We propose to furnish and install:

1 EC 25 25’ - 0 exposed height aluminum Flag Pole complete with hardware

Finish - Dark Bronze

The above price is furnished and installed with tax included. Not included - concrete footing $1,371.00

**Ripple Steel Co.**

Lockers furnished and installed $3,900

**Henly Sales**

Exterior signs FOB jobsite $4,930

Interior signs FOB jobsite $590

**Signin Co.**

We are quoting on 1 set of exterior letters,

1 Handicapped Parking sign, and miscellaneous lot of vinyl letters. We estimate there are 222 vinyl letters required.

Delivered price to jobsite $7,163.00

MI State Sales Tax 429.78

This price includes all necessary shop drawings, mounting template and mounting hardware. $7,592.78

**Shoal, Inc.**

10C, specialities, Penco lockers delivered and installed. $3,851
### Sign Center

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Unit price</th>
<th>Total price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Physically Handicapped Parking Sign, 16” x 20/ post - Mohawk Engraving Co. Model #HC-1000</td>
<td>$439.00</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Exterior letters, fabricated from sheet aluminum heliarc welded construction, finished to statin texture, etched and degreased to receive baked-on enamel finish. Color selection by Architect/ letters shall be back-lighted by one (1) tube of 13 mm white neon and powered by normal power transformers installed in building. Letters manufactured by Mills Manufacturing Co. Muskegon, Mich. Price includes transformers/ wiring and conduit by electrical installer copy: Ann Arbor Fire Station 6 and Ann Arbor Fire Station 6 1881</td>
<td>$170.00</td>
<td>$7,480.00</td>
</tr>
<tr>
<td>40</td>
<td>Die cut pressure sensitive vinyl letters, 3.5 mils in thickness. Letters shall be provided spaces and aligned with the entire message on a single application carrier tape. Letter style shall be helvetica medium. Color selection by Architect. (Num+C59ber of letters may vary) installation not included unless so stated</td>
<td>$4.50</td>
<td>$180.00</td>
</tr>
</tbody>
</table>

**TOTAL** $8,099.00

**terms:** net on delivery f.o.b.: job site delivery: 4 - 6 weeks

### Packson Co.

To include excavating, furnishing & installing two 1,000 gallon D5 fiberglass tanks. Includes straps, anchors, and concrete anchor mats; to include permits & inspections; pea gravel backfill, well compacted to rough finish grade. Includes pipe tank acc. to plans & specs. Anchor mat and vent post only (all other concrete at grade by others).

Furnish and install one new duo - 2 pump per plans & specs.

Any underground services to be billed as extra if hit during excavating and Miss Dig is notified prior to excavation

**$26,610**
Country Crane
Cranes or hoists, complete, material only $2,500
120 volts hoisters - no such thing
Coffing electric chain hoist 2 speed 16' and 5' per minute
at 230 volt 36' lift, 4 wheel trolley, delivered $1,400 no tax

M&N Service Co.  SECTION 14320  MOTOR DRIVEN HOIST
1 ton capacity Robbins & Myers J3M electric
cable hoist with motor driven trolley

   Lift:  31' - 0
   Hoist:  21 fpm single speed
   Trolley:  25 fpm "

pushbutton pendant from trolley track system $6,888.00
   Freight $81.00

Exception to Specifications:
(1) AC magnet disk brakes on hoist and trolley
(2) 30 minute motors

No wiring to electrical panel included
No installation quoted
No taxes included
Subject to conditions attached

Band & Daren  15, complete mechanical $229,200
Telcon  complete mechanical $192,190
        No water meter or assessment - by owner

Interior Comfort Co.  complete mechanical $187,177
        includes site work, plumbing, heating, ventilation & air
        conditioning. Do not have gas and oil tanks or pump,
        temporary heat, concrete pads.
        deductible if allow Trane equipment for HVA $1,100

Landeson  15, complete mechanical $197,907
Filling  15, complete, mechanical including inside & outside $174,630
Fanting Flooring Co.  access flooring, furnished and installed $5,820
Notab  15B, plumbing only 5’ out,
        no tanks, no site or benefits (city) $76,210
American Air  heating, ventilating and air conditioning, complete  no cutting, patching, no electric, no gas pipe  $50,508

Raymonds  15C,D, heating, ventilating & air conditioning complete  no cutting, no wiring  $61,704

Airing Co.  We agree to furnish labor and material  according to the following specifications

RE: Insulating Ann Arbor Fire Station #6

9" kraft faced Owen Corning Fiberglas blanket insulation  installed in the following areas. (R-30)
  Soffit overhand at South Entry
  Soffit overhang at Bunk Rooms
  Soffit overhang at Room #24
  Soffit overhang at Room #7

3 1/2" kraft faced Owen Corning Fiberglas blanket insulation  installed in the following areas. (R-11)
  Soffit overhang at entry to Apparatus Room

Full price  $851.00

Petry Electric  16, all electric, complete  $147,500

Henry Electric  electrical complete  $93,560

Lamp Electric  complete electrical  $107,178
  no concrete (one transformer pad & one pole base  to be furnished by concrete contractor)
  Note-Edison must do preliminary work - get poles in, that is, before Lamp Co. can do temporary service

Small Electric  $125,230
  Electrical, complete
  Temp. service & wiring included. Detroit Edison charges for transformer & primary service included
  Temperature control by mechanical. Concrete pad for transformer & pole light included.

Kabb Electric  Division 16, electrical, complete, including Det. Edison charges  $114,300

Tricity Electrical  electrical complete  $142,370

Turner Electric  electrical complete  $142,199

Services Electric  electrical complete  $112,400

Alter Electric Co.  #16 electrical complete  $129,696