



# City of East Moline Committee of the Whole

City Council Chambers  
915 16<sup>th</sup> Avenue  
East Moline, IL 61244

**DATE:** **Monday, July 18, 2011**

**TIME:** **“Immediately Following the  
Regular Council Meeting”**

1	Bid Letting for Fire Station #3	DeFrance
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# East Moline Fire Dept.

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1523 Morton Drive - East Moline, IL 61244

(309) 752-1505 – FAX (309) 752-1583

Website: [www.eastmoline.com](http://www.eastmoline.com)



## Notice of Bid

The City of East Moline Fire Department will receive competitive bids for a fire station re-roofing project at the fire station located at 901 Avenue of the Cities, East Moline, IL.

All bids must be delivered to the East Moline Fire Department at 1523 Morton Drive, East Moline, Illinois 61244 in a sealed envelope marked "Station 23 Roof Project" on or before 10:00 AM, August 18, 2011, at which time they will be read aloud to the public at the East Moline Fire Department.

Specifications may be obtained at our office at 1523 Morton Drive, East Moline, IL or from [www.eastmoline.com](http://www.eastmoline.com) Call Chief DeFrance at 752-1503 with any questions.

# *Roofing Specification*

*for*

## *East Moline Fire Station*

*901 Avenue of the Cities  
East Moline, IL*

Fire Chief:  
Robert DeFrance  
309-752-1503

## **1.0 GENERAL**

### **A. Scope**

1. Contractor shall furnish and install a 50 mil single-ply membrane roofing system that is fabricated of a weft inserted low-shrink, anti-wicking polyester fabric and has a thermoplastic coating of PVC material laminated to both sides as manufactured by Duro-Last Roofing, Inc.

### **B. Application**

This specially formulated thermoplastic coated membrane classified as PVC in this section consists of a weft inserted polyester scrim (18x14, 100 denier), laminated on both sides with a plasticized blend of vinyl and acrylic polymers which allows installation through the use of continuous 3-1/4 inch securing tabs, factory welded every 60 inches on center (prefabricated). Mechanical fasteners and distribution plates are used through the 3-1/4 inch tab eliminating the need for ballast.

### **C. Physical Properties**

The single ply membrane shall allow installation at any time of the year and shall provide: resistance to ultra-violet rays, superb tear and puncture strength, the ability to be impervious to most caustic chemicals and acids, and show no ill effects to heat or cold.

1.1 THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, AND APPLICABLE PROVISIONS OF DIVISION (1) ARE HEREBY MADE A PART OF THIS SECTION AS FULLY AS IF REPEATED HEREIN.

### **A. Requirements of Regulatory Agencies**

Membrane and related items shall be classified by Underwriters Laboratories, Inc. as a Class A Sheathing Material for use in construction of Class A coverings and amendments.

### **B. Roofing Contractor's Qualifications**

1. Contractor shall submit work history data showing having had successful warranted installation experience of the system specified for 5 years, and be a registered "Master Roofer" with Duro-last Roofing, Inc.
2. The contractor shall use adequate amounts of such qualified workmen who are thoroughly trained in the crafts and techniques required to properly install the type of roofing system proposed for use and other work required to complete the work specified and within the specified time.
3. The contractor shall have an experienced, pre-qualified, thoroughly trained superintendent having experience installing the roof system specified, who is familiar with the requirements of this project, on the job at all times when roofing system work is in progress. Training for superintendent shall include certification of completion of manufacturer's in-house training course and on-site training.

### **C. Requirements of the Membrane manufacturer**

1. All components of the roofing system shall conform to the current published specifications and details of Duro-Last Roofing, Inc.
2. There shall be no deviation made from this specification without prior written approval of Duro-Last Roofing, Inc. and building owner or his/her duly appointed representative.
3. Any other manufacturer proposing to supply material for this project shall fourteen (14) days prior to bid date, provide financial information regarding their roofing company, i.e. a current D&B report. A manufacturer who has less than

\$50,000,000.00 in annual roofing material sales, a net worth of less than \$3,000,000.00 or a history of late payments to creditors will not be permitted to submit their roofing material for use on this project. Manufacturer may be asked to submit an audited document listing the long-term warranty liability commitment of manufacturer.

4. Provide primary flexible sheet factory prefabricated roofing system from a single manufacturer that has successfully manufactured raw materials into specified products for not less than ten (15) years. No secondary private labels are acceptable. Provide secondary materials, such as but limited to insulation, gypsum board, vapor barriers, etc. as recommended and approved by manufacturer of primary materials.
5. Products primary and secondary shall be manufactured in the United States of America by a company owned by citizens of the United States.

**D. Field Inspection**

1. The Owner reserves the right to retain, at the Owner's expense, an independent inspection service to provide full-time inspection of the roofing system installation. The inspector shall have free access to the work area.
2. The contractor shall arrange for Duro-Last Roofing, Inc. to provide inspection of the roofing system installation. Upon completion of the installation, an inspection shall be made by a Quality Assurance Specialist of the membrane manufacturer at no extra charge to the building owner or contractor. The inspection is to ascertain that the visible elements of the roofing system have been installed in accordance with the membrane manufacturer's published specifications and details.

**E. Defective Work**

Should the installation of the roofing system not be approved Duro-Last Roofing, Inc.'s technician, correcting the defective work shall be done by the contractor until the roofing system satisfactorily meets all the specifications and manufacturer's requirements. Corrective work will be done **WITH NO ADDITIONAL EXPENSE TO THE EAST MOLINE FIRE DEPARTMENT.**

**F. Guarantees**

1. The contractor shall warrant the roof application with respect to workmanship and proper application for two (2) years from the date of acceptance by the membrane manufacturer. Should any leaks covered under the warranty occur during this period, corrective action will be taken by the contractor to repair the roof to the satisfaction of the owner and Duro-Last Roofing, Inc. **ALL CORRECTIVE WORK WILL BE DONE AT NO COST TO THE OWNER.**
2. The warranty shall be full roofing system repair and/or replacement fifteen (15) year warranty covering materials and labor. The warranty shall be a no-dollar limit type and provide for completion of repairs, replacement of membrane or total replacement of the "roofing system" at the then current material and labor prices throughout the life of the warranty. **Warranty shall contain no exclusions for ponded water, biological growth, incidental or consequential damages.**
3. Warranty shall be issued by the original manufacturer of the roofing membrane. No private label membranes will be accepted.
4. No work shall be done on said roof, including but without limitations, openings made for flues, vents, drains, sign braces, or other equipment fastened to or set on the roof, unless the Contractor or membrane manufacturer is notified first. Contractor or membrane manufacturer shall be given the opportunity to make the necessary roofing

application recommendations with respect thereto, and require such recommendations are complied with. Failure to observe this condition shall render the warranty null and void. The contractor or membrane manufacturer shall be paid for time and material expended in making recommendations or repairs occasioned by the work of others on said roof.

5. Corrective measures on leaks shall be undertaken within seventy-two (72) hours after notification has been received by the Contractor or Duro-Last Roofing, Inc. from the Owner.

### **G. Weight Requirements**

The total weight of the installed roofing system including all accessories, i.e: screws, plates, 2-way breather vents, etc., shall not exceed 31 pounds per square. Insulation weight varies according to R-value added if desired.

### **H. Mechanical Attachment**

1. Membrane fastening for buildings with maximum height of 40 feet (12m), securement tabs shall be spaced maximum of 60 inches (1.45m) on center and the first tab on the edge of the sheet parallel to the roof edge shall be a maximum 36 inches (.75m)
2. Deck membrane shall be fastened with approved fasteners, (90 lb system) 12 inches on center along bottom of all parapet walls, elevation changes and perimeter edges.
3. Deck membrane shall be fastened around cut-outs with approved fasteners 12 inches on center or a minimum of 1 per round penetration having a diameter of not more than 6 inches.

## **1.2 SUBMITTALS**

### **A. Required Submittals to the Owner**

1. Written confirmation from Duro-Last Roofing, Inc., Inc. that the installer is an approved Master Roofer applicator.
2. Duro-Last Roofing, Inc.'s literature on the following items:
  - a. Roofing membrane with dielectrically welded seams
  - b. Pre-manufactured parapet flashings
  - c. Pre-manufactured pipe flashing
  - d. Duro-Last sealant
  - e. Drip-edge, gravel/water stop, termination bar
  - f. Breathable 2-way vents
  - g. Self-leveling pourable sealer
  - h. Maintenance & repair instructions
3. 6" long samples of the following:
  - a. Gravel/water stop
  - b. Drip edge
  - c. Termination Bar
  - d. Sample of membrane
  - e. Mechanical fasteners
  - f. Lap splice sample (factory & field)
  - g. Roofing insulation
  - h. Walkway pad
4. Pullout Tests: Perform pullout tests and submit engineering results of Duro-Last Roofing, Inc.'s random location pull tests. Duro-Last Roofing, Inc. shall obtain at least one pull resistance test from indicated locations on the drawings. Submit pull test

results with drawing indicating the locations of the tests. Engineering results shall demonstrate the Duro-Last Roofing, Inc.'s reasons for selection of anchorage, frequency and the seaming patterns.

6. Membrane Data: Prior to receipt of bids, contractor shall submit all forms and other required data to Duro-Last Roofing, Inc. for pre-approvals. Advise architect in writing of any recommendations made or revisions required by Duro-Last Roofing, Inc. to particular job conditions. In the absence of any comments, the Owner and/or his representative shall assume Duro-Last Roofing, Inc.'s most recently published specifications shall be followed.

### **1.3 PRODUCT DELIVERY, STORAGE AND HANDLING PROCEDURES**

- A. Deliver materials in original unopened packaging.
- B. Containers labeled with manufacturer's name, brand name, and identification of various items.
- C. Store materials in a dry area and protect from inclement weather. Damaged materials shall be replaced at contractor's expense.
- D. Do not allow roofing membrane to come in contact or be exposed to any materials that would be detrimental to or cause degradation of the roofing membrane.

### **1.4 JOB CONDITIONS**

#### **A. Environmental Conditions**

1. In making field heat welds, make sure all welding surfaces are clean and free of moisture or foreign items.
2. Weather precautions: Proceed with roofing work when existing and forecasted weather conditions permit work performance in compliance with Duro-Last Roofing, Inc.'s recommendations.
3. Roofing system shall not be applied when the surrounding air, surface temperature, relative humidity or wind velocity is not within the range acceptable under the Duro-Last Roofing, Inc.'s recommendations.

#### **B. Protection**

1. Prior to starting work, protect all work in an approved manner including all paving and faces of building walls. Provide special protection of the face of the building wall adjacent to hoist.
2. Complete the whole roofing section or any portion of the roof in a single day to avoid exposure to rain, dew, or moisture of any kind. If rain threatens during the day or in an emergency, protect the unfinished exposed roofing components and provide temporary water cut-offs around exposed edges and incomplete flashing areas.
3. All hoisting equipment shall bear on solid pad blocking. If on the roof surface, pad shall be large enough to evenly distribute the load to avoid crushing insulation and roof system. Pad shall consist of two separate layers of material to eliminate vibration and movement to directly affect the roofing membrane. Pad shall be of sufficient size to accommodate work tools and weights used around hoisting operations.
4. Repairs: Clean or repair surfaces damaged or soiled by operations under this contract to the satisfaction of the Owner or Owner's representative without additional cost to the Owner. These would include, but not limited to, windows, doors, floors, walls, stairs, elevators, steps, walks, curbs, lawn areas, or other roofs.

## **2.0 PRODUCT**

### **A. Roof Membrane**

1. A special formulated, permanent, thermoplastic alloy, bonded to a high tenacity, low shrinkage weft inserted polyester fabric with resistance to ultraviolet rays, microorganisms and impervious to most caustic. Surface polymer to be minimum of 26 mils. (No knife coated products allowed).
2. Membrane shall be factory welded, prefabricated sheets up to 2,000 square feet or as determined by job condition.
3. The new roofing shall be a prefabricated mechanically fastened installation single-ply reinforced PVC membrane, 50 mils thick.

### **B. Manufacturer**

1. The following PVC manufacturer has been approved for this project. No substitutions by secondary, indirect manufacturers will be allowed:

Duro-Last Roofing, Inc.  
525 Morley Drive  
Saginaw, MI 48601  
(800) 248-0280

2. Other manufacturers requesting approval must submit acceptable information certifying that they are the direct manufacturer from raw material into specified membrane, (minimum 15 years) factory prefabricate the membrane into roofing panels, and meet the performance and financial criteria required.
3. Fire resistance of PVC roofing system shall meet UL Class A. All packaging of membrane and insulation shall bear UL Class A label.
4. Membrane color shall be white.

## **2.1 MATERIALS**

### **A. Membrane-Related Materials**

1. All membrane components, including pipe and curb flashings must be factory prefabricated from the same fabric reinforced material used for the deck membrane.
2. Termination Sealant: Compatible with materials to which membrane is to be bonded, conforming to Federal Specifications TT-598 and TT-S-00230C as furnished by Duro-Last Roofing, Inc.
3. Distribution Plates: Factory Mutual approved stress distribution plates formed from a minimum 24 gauge G-90 C.Q. steel with a galvalume coating for insulation attachment, or 20 gauge G-90-C.Q. steel with galvalume coating or high strength polyblend for membrane attachment.
4. Water Cut-Off Mastic: Compatible with materials with which it is used and furnished by the membrane manufacturer.
5. Pitch Pocket Sealant: Shall be a single component, self-leveling silicone sealant furnished by Duro-Last Roofing, Inc.
6. Fasteners: Compatible with roof deck as furnished by the membrane manufacturer. Fasteners shall be furnished by Duro-Last Roofing, Inc. and be Duro-Guard coated #14 and must pass 30 cycles in the Kesternich Cabinet, DIN #50018-2 Liter. The FM approved fastener is inserted through the hole in the distribution plate and properly

secured to the roof deck.

7. Breather Vents: Two-way vents with factory-attached skirt shall be installed at a density of one per 1000 square feet of roof deck area and in accordance with Duro-Last Roofing, Inc.'s specifications. Vents shall be furnished by Duro-Last Roofing, Inc.
8. Terminations/Edge Details: Shall be manufactured from rigid exterior vinyl with slotted holes for securement and furnished by membrane manufacturer. All other terminations/edge details must be approved and warranted by Duro-Last Roofing, Inc.
9. Walkway Pads: Provide Duro-Last Roofing, Inc.'s walkway pads made from the roofing membrane material installed in strict compliance with manufacturer's recommendations. Pads shall be non-skid, maintenance free, and restrained to remain in position. Pad installation minimum configuration is shown on the drawings. Walkway pads shall be a contrasting color to the roof membrane. Owner and/or Owner's representative shall choose from Duro-Last Roofing, Inc.'s samples.

#### **B. Insulation**

1. Board insulation shall be a minimum of 1/2 inch thick, fiberglass, or polyisocyanurate.
2. Extruded polystyrene (EXPS) insulation and expanded polystyrene (EPS) shall be installed with a separator sheet and shall meet the following requirements.
  - a. Thickness: 1" minimum
  - b. Density: 1-1/2 pounds per cubic foot
  - c. Absorption by volume: Less than 2.5% as measured by ASTM C2272
3. If re-roofing with no tear-off required, the minimum underlayment shall be
  - a. 3/8 inch thick extruded polystyrene with approved polyethylene or polypropylene facer.
  - b. 1/2 inch thick expanded polystyrene with approved polyethylene or polypropylene facer.

#### **C. Nailers & Blocking**

1. Where required, nailers and wood blocking shall be S4S 1500 fc construction grade Douglas fir conforming to standard 15 grading and dressing rules of the West Coast Lumber Inspection Bureau, or other species of wood of equal strength. All lumber shall be grade marked at the mill.
2. Nailers shall be securely anchored to the deck to resist the minimum force required in Loss Prevention Data Sheet I-49, "Perimeter Flashing," Factory Mutual Systems, June, 1985. The thickness of the nailer shall be such that the top of the nailer is flush with the surface to which the membrane is to be applied.

#### **D. Accessories**

Primary accessories shall be factory prefabricated or manufactured by or under the direction of Duro-Last Roofing, Inc. All other shall be furnished and approved by the Duro-Last Roofing, Inc.

### **3.0 EXECUTION**

#### **A. Substrate Inspection**

1. Inspect all surfaces to receive roofing for any condition that will adversely affect

- execution, performance, or quality of work.
2. All roof surfaces and all sloped surfaces to drains and outlets shall be checked and approved by the roofing contractor prior to the start of the roofing work.
  3. Install roofing material only under satisfactory conditions as specified by Duro-Last Roofing, Inc.
  4. Scheduling: Schedule the roofing work in areas and sections in such a manner as to keep the new and existing insulation, roofing materials, and building absolutely dry and watertight during new roofing work.
  5. Any damage sustained to the facility or contents as a result of improper scheduling of roofing work shall be the contractor's responsibility.

**B. Surface Preparation**

Contractor's proposal shall include all costs for the removal of wet or damaged existing roofing insulation and replacement as required, repair of blisters, existing flashings, expansion and control joint covers, and repair or replacement of required treated wood nailers or blocking.

1. The total extent of preparation shall include the above and comply with the Duro-Last Roofing, Inc.'s recommendations.
2. Mechanically secure separation material units to roofing deck independent of membrane attachment and cover immediately with membrane. Butt units tightly together, limiting joint separation to 1/8 inch, maximum. Meet attachment pattern requirements of Duro-Last Roofing, Inc.

**3.1 GENERAL REQUIREMENTS**

**A. Precautions**

1. Do not lay out or expose any insulation on the deck that cannot be covered by membrane on the same day.
2. In making all field heat welds, make sure all edges are clean and free of tar, mastic or other foreign items.
3. Do not expose membrane and accessories to a constant temperature in excess of 110 degrees Fahrenheit.
4. Sealants and adhesives should be applied according to the manufacturer's specifications and all containers shall be disposed of properly.
5. Start securing the membrane at the highest point and work towards the drains.

**B. Protection of Roofing Surfaces**

Storing, wheeling, or trucking directly on roof insulation or membrane surface is not recommended. Smooth, clean plywood or plank walkways, runways and platforms shall be provided as necessary.

**3.2 INSULATION INSTALLATION**

**A. General**

The roof insulation shall be installed with approved fasteners and distribution plates placed according to specification. Insulation board having maximum of dimensions of 2 x 4 feet shall require a minimum of 2 fasteners. Insulation boards having maximum of dimensions of 4 x 4 feet shall require a minimum of 4 fasteners. Insulation boards having maximum of

dimensions of 4 x 8 feet shall require a minimum of 6 fasteners. Install the fasteners flush with the top surface of the insulation board. The ends of the insulation boards shall be staggered 50% from row to row. Butt each insulation board firmly to the adjacent board. Do not jam insulation boards or allow cracks between insulation boards. Cut boards to allow a maximum 1/4 inch gap away from vertical surfaces.

### **3.3 MEMBRANE INSTALLATION**

#### **A. Laying Out**

Select the proper factory marked rolled sheet of roofing membrane for an outside corner or high point. Orient the roofing membrane so that the 3 inch wide fastening tabs are perpendicular to the ribs or corrugations of a steel deck.

#### **B. Roof Sections**

Unfold first sheet along edge of roof or parapet wall. Position and fasten first tab with plates and screws according to membrane manufacturer specifications. Unfold roofing sheet to the second 3-1/4 inch wide fastening tab. Pull tab tight and secure to deck as herein described, maintaining proper plate and screw frequency, squarely placed. Continue unfolding and fastening roofing membrane until entire sheet is in place. Install the adjacent roofing membrane sheets using the fastening procedure described. Proceed until all sheets are in place, thus forming a monolithic roof cover. Make sure all edges of each sheet of roofing are fastened with the same fastener spacing as tabs or are welded to another sheet that is fastened in this manner.

#### **C. Field Welding**

All field heat seams of the roofing materials shall be 1-1/2 inch wide minimum and be made with a hot air welder. The hot air welder shall be in such a position so that the outside edge and both pieces of material will receive an equal amount of heat and all of which will be closely followed by a 1-5/8 inch wide roller specially designed for this purpose. Make a hands and knees inspection of all field welds with a probe.

#### **D. Perimeter Nailing**

The membrane shall be mechanically fastened at all roof perimeters, parapets, curbs, wall, penetrations, etc. in strict accordance with the Contract Documents and Duro-Last Roofing, Inc.'s specifications and details.

#### **E. Cut-Outs**

Make cut-outs in roofing membrane for protrusions through the roof. Some situations might require that the deck membrane be slit to the section edge for fitting around protrusions. Fasten around cut-outs with approved fasteners, 12 inches on center or a minimum of one per side. The skirts on factory prefabricated accessories when welded to deck will cover these.

#### **F. Stacks**

After membrane has been attached, select proper size of pre-manufactured round stack for roof vents and pipes. Drop stack flashing over the pipe, lay flat to the roof, and heat weld the skirt to the deck membrane. Using appropriate hand tool, tighten stainless steel band (or

stainless steel screw clamp) around top of stack flashing to prevent water penetration, and cut off excess. Using factory approved sealant, liberally seal the top of the stack flashing and steel band.

**G. Custom Curbs**

After securing cut-out as stated, heat weld the bottom of the skirt to the deck membrane. If the square or rectangle penetration has a removable top, i.e. roof hatch, skylight, etc., remove the unit and fold the custom curb flashing over the top, secure, then replace unit. If top is not removable, secure the top of the custom curb flashing with termination bar and seal with factory approved sealant. Use this same procedure on existing or new pitch pockets.

**H. Breather Vents**

Install a two-way breather vent for every 1,000 square feet of deck area. Factory prefabricated vents with a skirt made from roofing membrane shall be used. For new construction or re-roof after tear-off, a 2-1/2 inch diameter hole cut down through the roofing membrane and insulation facer is required. For recover/non-tear-off application a 2-1/2 inch diameter hole is to be cut through the roofing membrane and the facer down to the facer on the existing insulation. Heat weld skirt to the deck membrane so as to position two-way vent directly over the hole. Careful placement of the breather vents must be observed. **DO NOT** locate in valleys, next to roof penetrations, scuppers, roof drains, etc. Equally space the vents throughout the roof area. Do not fasten the vent or the skirt to the roof deck. This two-way breather vent is designed to vent the roofing system only and not the building to which it is installed.

**I. Parapet Walls**

Fasten bottom tab of prefabricated parapet wall flashing 12 inches on center with approved fasteners. This fastening sequence will secure both bottom of parapet and edge of deck membrane. Base skirt should extend approximately 6 inches onto the roof. This allows for a 1-1/2 inch wide weld and covering of the fasteners and plates. Heat weld skirt to deck membrane. On all termination bar applications, start fastening at one end and proceed to the other. This will eliminate buckling of the termination bar. Seal behind the parapet wall material and on top of termination bar with factory approved sealant. If parapet wall coping is to be covered, extend covering down 2 inches on exterior face of coping and terminate accordingly.

**K. Gutter Edge**

1. If gutter is attached to building 2 inches or more below roof line, extend deck membrane over edge and terminate with termination bar and fasten 6 inches on center. Apply sealant as specified.
2. When the gutter is attached to the building level with the roof line, notch the drip edge face around the gutter support brackets and install according to specifications.

**3.4 CLEAN-UP**

Upon completion of the membrane installation, the contractor shall remove all foreign matter, rubbish and scrap material from the roof. The membrane surface shall be cleaned using cleaners recommended by the membrane manufacturer.

### **3.5 INSPECTION & WARRANTY**

- A.** Inspection: Duro-Last Roofing, Inc.'s Quality Assurance Technician, architect and roofing contractor shall conduct all required inspections. Submit all required drawings, details, and completed questionnaires to the roofing manufacturer before obtaining the specified warranty. After an authorized Quality Assurance Technician has inspected the roof for determining acceptability for warranty issuance, any deficiencies on the final inspection report shall be corrected by the contractor/applicator and made ready for reinspection within five (5) working days.
  
- B.** Warranty: Upon receipt of required materials, certifying inspection, and acceptance of the roofing system by Duro-Last Roofing, Inc., the warranty shall be duly executed and issued to the Owner.

### **3.6 REPAIRS**

Future repairs or additions to the roofing system shall be made using the heat welding process. Adhesive bonded or butyl tape repairs shall not be allowed for the life of the roof. Provide repair procedures to the Owner and/or Owner's representative.

### **3.7 CONSTRUCTION DAMAGE**

Upon completion of work, repair or replace as required, all building materials damaged as a result of the roofing operations. Match existing materials as close as possible. Owner and/or Owner's representative will be involved in the selection of matching materials.

**END OF SECTION**

# Construction Specifications

## East Moline Fire Department

1. Set up for reroofing operation as approved by East Moline Fire Department.
2. Provide all necessary protection needed to guard all walls and adjacent structures.
3. Set up all required safety lines and guardrails as required by OSHA.
4. Cut and remove the existing built up roof and all associated flashings and insulation in the northeast corner. (Approximately 15 X 15 Area) If additional wet material is discovered provide a square ft cost to remove and replace.
5. Remove debris from the roof surface.
6. Lower all debris from the roof surface in an approved manner. Protect all building faces where needed to assure that no damage occurs.
7. Inspect the exposed deck area and determine if replacement is needed.
8. Over lay new decking on the deteriorated deck sections in the northeast corner. Fasten to the structure.
9. Install new wood blocking to the edge if decayed.
10. Install a new isocyanurate insulation over the entire exposed decking surface. Fasten each sheet using 5 fasteners per 4 x 8 sheet per Duro-Last's requirements.
11. Install Duro-Last approved recovery board (slip sheet) over the complete roof surface (3/8" Duro-Fold Board. Fasten fanfold per manufacturers requirements.
12. Install mechanically attached Duro-Last Roofing System as described herein to maintain a UL Class A Fire Rating and a I-90 Wind Uplift Rating. The complete roofing system will be fastened twelve inches on center through 3 inch securing tabs 60" apart.
13. Install Duro-Last prefabricated roof flashings to each roof penetration.
14. Install Duro-Last prefabricated wall flashing to all interior and exterior walls. Terminate above all old flashings or below the masonry cap.
15. Install new 2 piece compression edge metal to west eaves. Trim and seal properly to assure a neat looking appearance.
16. Install new coated metal nosing edging to all gutter edge detail. Vertical drop to reach the existing gutter.
17. Seal and terminate each obstruction using Duro-Last termination bar and sealant. Reuse the existing counterflashing where appropriate (walls).
18. Seal the termination bar with Duro-Last approved sealant between the membrane and the wall. Complete the detail with a proper bead of sealant to the top of the termination bar.
19. Install one Duro-Last breather vent at a rate of one per every 1000 sq. ft. of membrane surface.
20. HEAT WELD all flashings to the base membrane creating a one piece roof system.
21. Clean the adjacent work areas on a daily basis so as not to hinder the normal operations of the East Moline Fire Station.
22. \*Include a separate price to encapsulate concrete cap with Duro-Last membrane. Detail to include a wood nailer and 4" 2 piece compression edge detail.
23. \*Include a separate price to add 1 1/2" Rigid insulation over the existing roof system.