

PROJECT MANUAL

PROJECT:

CITY OF MUSKEGON WATER FILTRATION PLAN
ROOF PROJECT 2022 - 2023
SECTION #6 - #7 - #8

OWNER:

CITY OF MUSKEGON – WATER FILTRATION PLANT
1900 BEACH ST.
MUSKEGON, MI 49441

DATE: MAY 3, 2022

ISSUED FOR: BIDS / CONSTRUCTION DOCUMENTS

MANDATORY SITE MEETING

MAY 10, 2022 @ 2PM
CITY OF MUSKEGON – WATER FILTRATION PLANT
1900 BEACH ST.
MUSKEGON, MI 49441

BIDS DUE

MAY 24, 2022 @ 2:00 P.M.
CITY OF MUSKEGON – CITY HALL
CITY CLERK OFFICE
933 TERRACE ST.
MUSKEGON, MI 49440
ATTN: ANN MEISCH

ADDENDUM ISSUED

May 17, 2022

“Addendum 1” – May 17, 2022

This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto. This Addendum is issued for the purpose of modifying and/or clarifying the original Contract Documents and shall take precedence over them. Contractors are responsible for becoming familiar with every item of this Addendum. Each contractor shall acknowledge receipt of this Addendum on the bid proposal form in the appropriate locations.

1) DRAWINGS & ATTACHMENTS

- a) A3: Roof Plan
- b) D2: Details

2) SPECIFICATION CHANGES

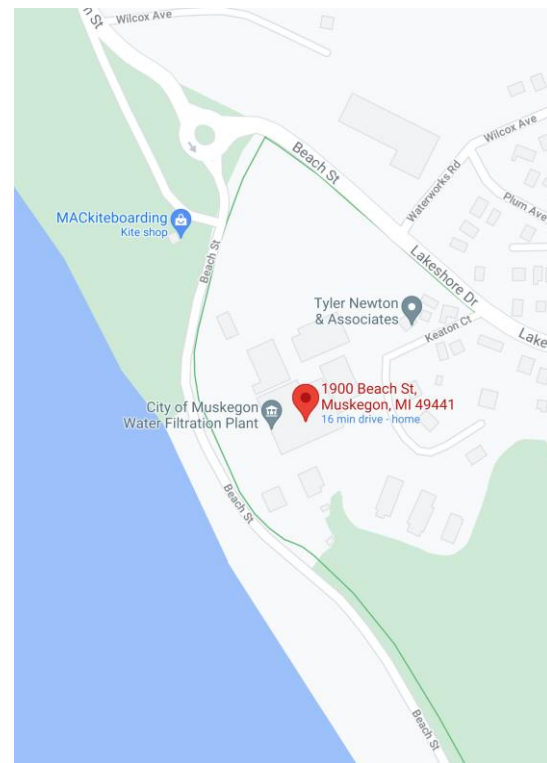
- a) Section 00 4100 – Bid Form
 - i) Bid Requirements:
 - (1) Added Fall / Spring Pricing
 - ii) Additional Unit Cost:
 - (1) Replace Roof Hatch on Section #6 and install 10' x 10' safety rails
- b) Section 007200 – General Conditions
 - i) PART 1 – GENERAL
 - (1) Section 1.11 – Changes or Extra Work
 - (a) “D. For material increases that can’t be accounted for during the bid phase due to inflation, contractor will provide City of Muskegon the material quote used for bidding from distribution house and/ or manufacturer and the new quote once material is delivered. The difference of material pricing is going to be allowable to submit for a change order. No mark-up will be allowable on these change orders.”

SCOPE OF WORK

2-PLY MODIFIED BITUMEN ROOF REPLACEMENT:

- 1.) Remove any and all roofing material from surface of roof. This includes, but is not limited to ballasted stone, membrane, insulation, edge metal, roofing accessories, existing vapor barrier, etc.
 - Existing non-saturated insulation will be re-used.
- 2.) Once roof deck is clear, inspect the concrete substrate to ensure decking is in condition, suitable for the new roofing installation.
- 3.) Prime entire concrete deck with Garla-Prime, an asphaltic primer at a rate of .5 gal./ sq. All primer to dry.
- 4.) Once primer is set, install the HPR Glasbase Vapor Barrier in Type III / Type IV hot asphalt directly over the primed concrete deck. Asphalt coverage rate is 25 lbs. per 100 square feet. Ensure vapor barrier properly seals the envelope of the building at all perimeter and flashing details.
- 5.) Install a new layer of 2.6" Polyisocyanurate insulation in Type III / Type IV hot asphalt at a coverage rate of 25 lbs./ 100 square feet and then re-install existing insulation (flat stock: 2") and tapered insulation.
- 6.) Re-install existing insulation and tapered insulation per drawings in Type III / Type IV hot asphalt at a coverage rate of 25 lbs./ 100 square feet.
- 7.) Install ¼" primed dens deck in Type III / IV hot asphalt with a coverage rate of 25 lbs./ 100 square feet.
- 8.) Install new SBS Modified Bitumen Roofing System:
 - Option #1:
 - Install HPR TorchBase, a SBS heat fusing base sheet directly over recovery board per manufacturer's installation guidelines.
 - Install StressPly IV Mineral, a SBS heat fusing mineral cap sheet directly over SBS base sheet per manufacturer's installation guidelines. Once cap sheet is installed, all seams are to be heat welded to ensure a consistent ¼ bleed out.
 - Option #2:
 - Install StressBase 80, a SBS base sheet installed directly over recovery board in Type III / IV hot asphalt with a coverage rate of 25 lbs./ 100 square feet.
 - Install StressPly FR Mineral, a SBS mineral coated cap sheet installed directly over SBS base sheet in Type III / IV hot asphalt at a rate of 25 lbs./ 100 square feet.
- 9.) Any flashing that is terminated prior to passing over the top edge of the perimeter wall or penetration is to receive a termination bar, Greenlock Structural Adhesive along the top edge and a surface-mounted counter-flashing detail per provided detail drawing. Termination bar and caulking should be installed on a daily basis.
- 10.) Install additional wood nailers and wood fascia to match the additional height of the new insulation. All wood nailers and wood fascia should be covered by the modified membrane and the specified metal detail. Use compatible contractor provided screws and/or Ring Shank nails when installing the wood. Install two fasteners (pair them up) and install pairs every 16" with stagger. When using treated wood, all fasteners will comply with ASTM A153 by using type 304 or Type 316 stainless-steel fasteners and connectors for corrosion resistance.
- 11.) Raise all roof penetrations to a minimum 8" flashing height. The roofing contractor is responsible for connecting and disconnecting all associated equipment. Any roof curbs or duct work currently being supported by wood blocking shall be replaced with deck mounted steel curbs. All wood nailers that are visible from the inside of the facility must match the décor of the surrounding interior.
- 12.) Install all new ANSI-SPRI ES1 (24 gauge) rated coping metal where applicable and ANSI-SPRI ES1 (24 gauge) rated edge metal around perimeter.
- 13.) Three course all flashing vertical seams with Silver-Flash Mastic and Gar-Mesh per manufacturer's installation guidelines and coverage rates.
- 14.) If Option #2 is chosen, the entire roofing surface will be coated will be coated with Garla-Brite, an aluminum, non-fibred roof coating at a rate of 1 gal per 100 square feet. Application calls for (2) .5 gal per 100 square feet coats.
- 15.) Power wash all construction debris and dripped asphalt off exterior walls and ground prior to leaving work site.
- 16.) Clean up all debris and damage done to grounds, building and roof top (if any). Plant new grass seed if necessary. Netting must be installed to hold the new grass seed and straw in place. Plywood should be laid under the dumpster and where any heavy machinery will be driven to prevent deep ruts from forming.
- 17.) All existing ladders, walkways, walls, etc... must be protected so that these areas are not marked up from material spills or tracking of materials by walking. Contractor is responsible for properly protecting the parking lot, sidewalks, concrete, asphalt, etc..., from damage. Contractor to cover the areas with plywood or whatever material they deem necessary for proper protection. Any damage done to these areas will be repaired by the contractor using "like" material.
- 18.) The contractor is responsible for taking pictures of the interior and exterior of the building before work begins. This will help to determine who is responsible for any interior damage that may take place during the roofing work.
- 19.) All insulation and roll goods must be covered with a tarp at all times. The factory plastic is not acceptable. Wet materials are considered damaged and will not be deemed unacceptable for installation. All rolls' goods must be standing up or should be thrown away.
- 20.) All contractors are responsible for roof cores, removing existing coping, metal wall panels, etc..., at time of the pre-bid review for verification of existing roof system and building structure and wall composition before proceeding with their project bid.

LOCATION MAP



NOTES

1. STORE AND HANDLE ROOFING SHEETS IN A DRY, WELL-VENTILATED, WEATHER-TITE PLACE. STORE ROLLS OF FELT AND OTHER SHEET MATERIALS ON RAISED SURFACE. STAND ALL ROLL MATERIALS ON END. COVER ROLL GOODS WITH A CANVAS TARPULIN OR OTHER BREATHABLE MATERIAL (NOT POLYETHYLENE).
2. DO NOT LEAVE UNUSED MATERIALS ON THE ROOF WHEN ROOFING WORK IS NOT IN PROGRESS UNLESS PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE ALL MATERIAL AND EQUIPMENT ON THE JOB SITE. IF ANY MATERIAL OR EQUIPMENT IS STORED ON THE ROOF, THE CONTRACTOR MUST MAKE SURE THAT THE INTEGRITY OF THE DECK IS NOT COMPROMISED AT ANY TIME.
4. DO NOT APPLY ROOFING INSULATION OR MEMBRANE TO DAMP DECK SURFACE.
5. FULLY COMPLETE ALL MODIFIED BITUMINOUS MEMBRANE ROOFING FIELD ASSEMBLY WORK EACH DAY. PHASED CONSTRUCTION WILL NOT BE ACCEPTED.

CUSTOMER NOTE:

1. ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN, UNLESS OTHERWISE NOTED.
2. IT IS ESSENTIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED ON THE SHOP DRAWINGS.
3. NO MATERIAL WILL BE CONSIDERED RELEASED FOR FABRICATION UNTIL ALL PERTINENT INFORMATION (i.e. COLOR, DIMENSIONS, MATERIAL CONFIG-URATION) HAS BEEN RECEIVED.

DRAWING INDEX

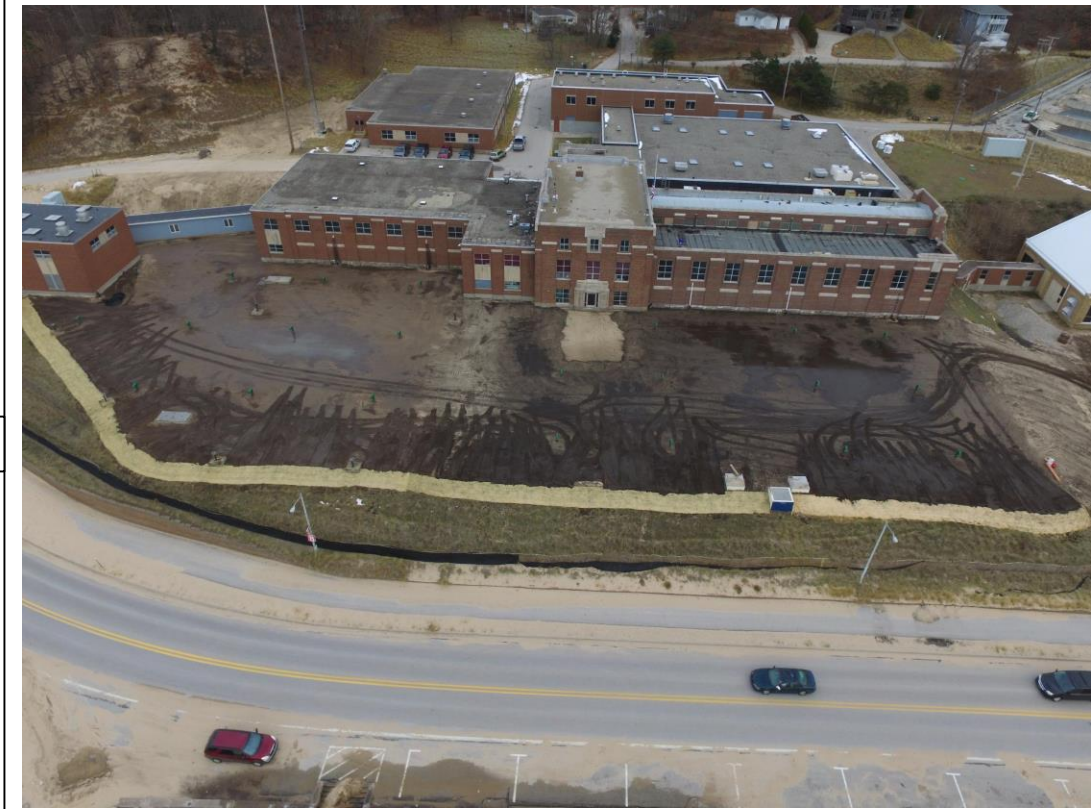
- A1 - COVER SHEET
- A2 - ROOF PLAN
- A3 - ROOF PLAN
- D1 - DETAILS
- D2 - DETAILS

CITY OF MUSKEGON

WATER FILTRATION PLANT

SECTION #6 - #7 - #8

1900 BEACH ST.
MUSKEGON, MI 49441



ROOFING SYSTEM OVERVIEW



THE INFORMATION CONTAINED HEREIN IS OF A PROPRIETARY NATURE AND IS SUBMITTED IN CONFIDENCE FOR USE BY THE CLIENTS APPROVED BY THE ORIGINATOR OF THIS DOCUMENT ONLY. THE USE OF THESE DOCUMENTS FOR ANY OTHER PROJECTS, PURPOSE, LOCATION, PUBLICATION, REPRODUCTION OR DISTRIBUTION IN WHOLE OR PART, BY ANY INDIVIDUAL OR ORGANIZATION WITHOUT WRITTEN PERMISSION FROM THE ORIGINATING COMPANY IS PROHIBITED. THE INFORMATION HEREIN REMAINS THE PROPERTY AND ITS USE OR DISCLOSURE TO OTHERS IS PROHIBITED FOR ANY USE NOT AUTHORIZED BY THE ORIGINATING COMPANY.

APPROVED FOR
BIDDING

CITY OF MUSKEGON
WATER FILTRATION PLANT
1900 BEACH ST.
MUSKEGON, MI 49441

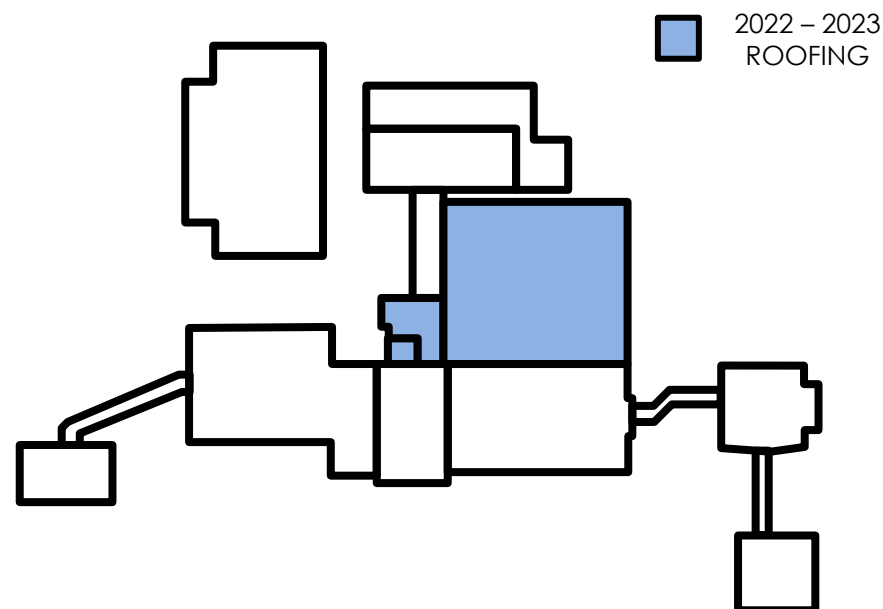
SHEET TITLE:

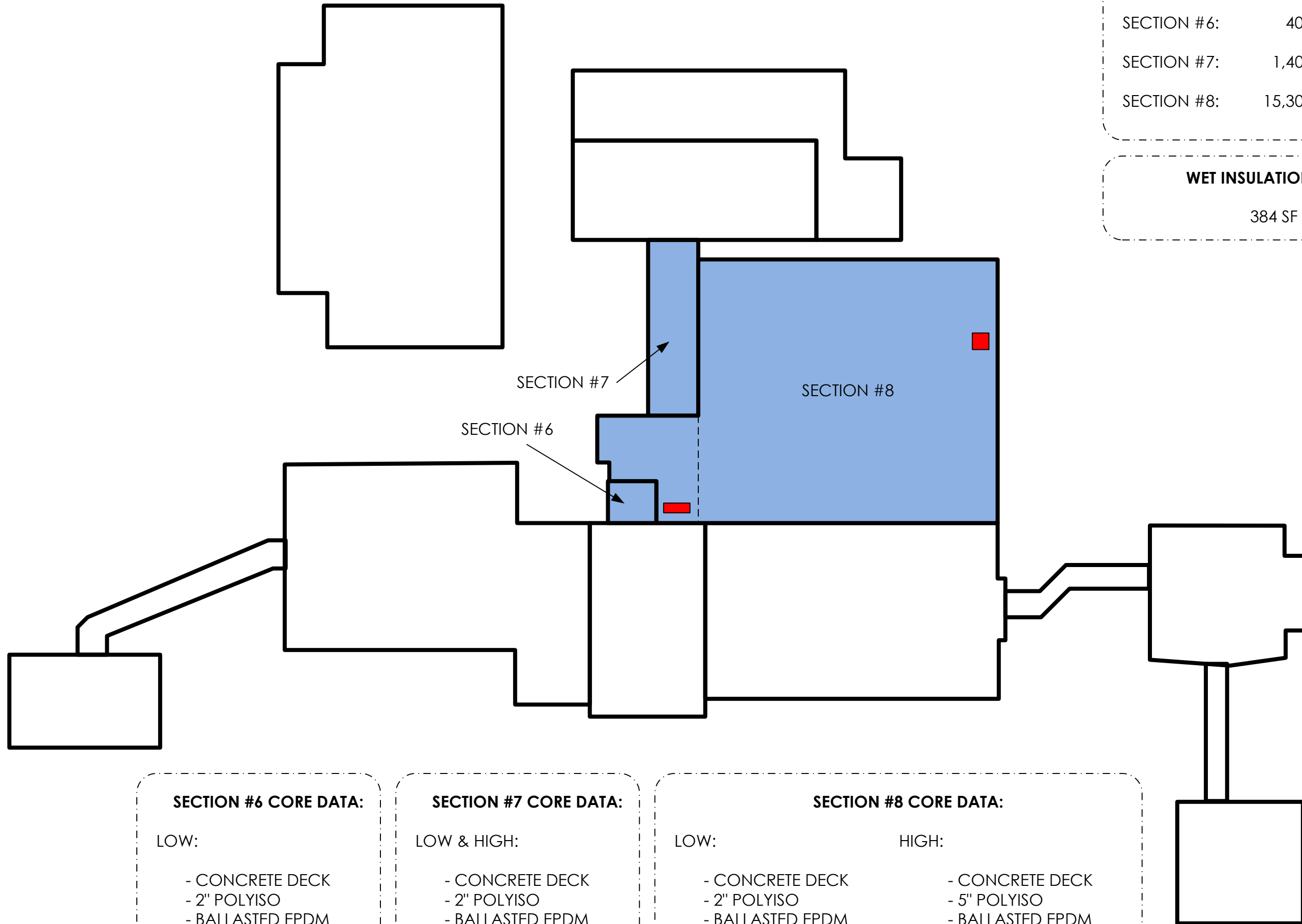
COVER
SHEET

SHEET NO.

A1

ROOF OVERVIEW





APPROXIMATE ROOF SF:

SECTION #6: 400 SF

SECTION #7: 1,400 SF

SECTION #8: 15,300 SF

WET INSULATION SF:

384 SF

SECTION #6 CORE DATA:

LOW:

- CONCRETE DECK
- 2" POLYISO
- BALLASTED EPDM

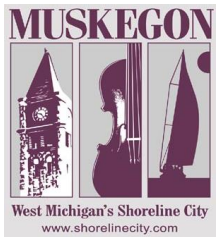
SECTION #7 CORE DATA:

LOW & HIGH:

- CONCRETE DECK
- 2" POLYISO
- BALLASTED EPDM

SECTION #8 CORE DATA:

LOW:	HIGH:
- CONCRETE DECK	- CONCRETE DECK
- 2" POLYISO	- 5" POLYISO
- BALLASTED EPDM	- BALLASTED EPDM



THE INFORMATION CONTAINED HEREIN IS OF A PROPRIETARY NATURE AND IS SUBMITTED IN CONFIDENCE FOR USE BY THE CLIENTS APPROVED BY THE ORIGINATOR OF THIS DOCUMENT ONLY. THE USE OF THESE DOCUMENTS FOR ANY OTHER PROJECTS, PURPOSE, LOCATION, PUBLICATION, REPRODUCTION OR DISTRIBUTION IN WHOLE OR PART, BY ANY INDIVIDUAL OR ORGANIZATION WITHOUT WRITTEN PERMISSION FROM THE ORIGINATING COMPANY IS PROHIBITED. THE INFORMATION HEREIN REMAINS THE PROPERTY AND ITS USE OR DISCLOSURE TO OTHERS IS PROHIBITED FOR ANY USE NOT AUTHORIZED BY THE ORIGINATING COMPANY.









APPROVED FOR BIDDING

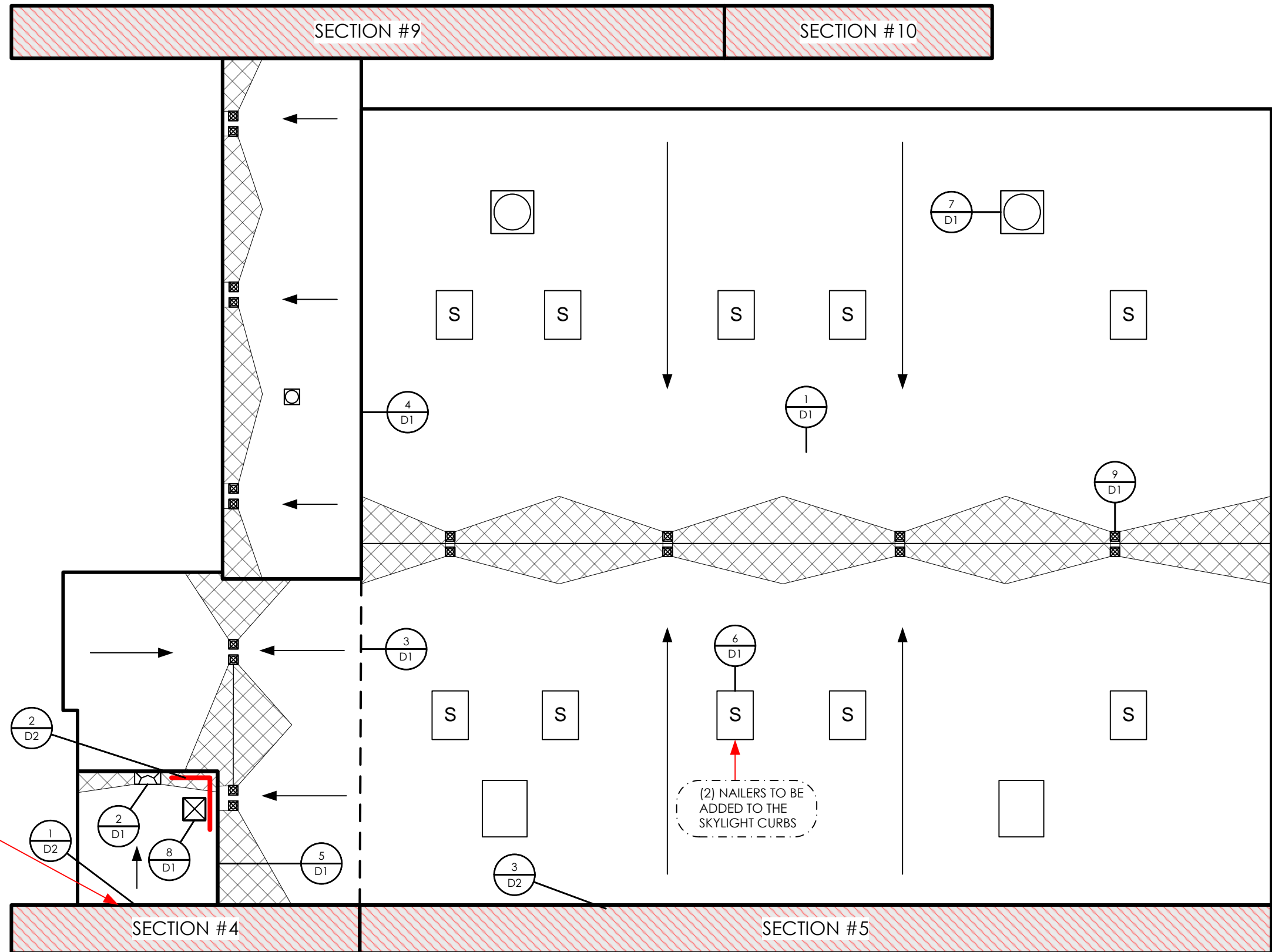
**CITY OF MUSKEGON
WATER FILTRATION PLANT
1900 BEACH ST.
MUSKEGON, MI 49441**

SHEET TITLE:
ROOF PLAN

SHEET NO.
A2

Legend

-  Details
-  Roof drain
-  Roof Curb
-  Hatch
-  Saddles
-  Scupper
-  Skylight
-  Exhaust Fan



ONCE EXISTING MEMBRANE IS REMOVED, INSTALL METAL FLAT STOCK SHEET ON WALL TO CREATE SMOOTH SUBSTRATE TO ADHERE NEW ROOFING MEMBRANE TO VERTICAL SUBSTRATE

(2) NAILERS TO BE ADDED TO THE SKYLIGHT CURBS



THE INFORMATION CONTAINED HEREIN IS OF A PROPRIETARY NATURE AND IS SUBMITTED IN CONFIDENCE FOR USE BY THE CLIENTS APPROVED BY THE ORIGINATOR OF THIS DOCUMENT ONLY. THE USE OF THESE DOCUMENTS FOR ANY OTHER PROJECTS, PURPOSE, LOCATION, PUBLICATION, REPRODUCTION OR DISTRIBUTION IN WHOLE OR PART, BY ANY INDIVIDUAL OR ORGANIZATION WITHOUT WRITTEN PERMISSION FROM THE ORIGINATING COMPANY IS PROHIBITED. THE INFORMATION HEREIN REMAINS THE PROPERTY AND ITS USE OR DISCLOSURE TO OTHERS IS PROHIBITED FOR ANY USE NOT AUTHORIZED BY THE ORIGINATING COMPANY.

APPROVED FOR BIDDING

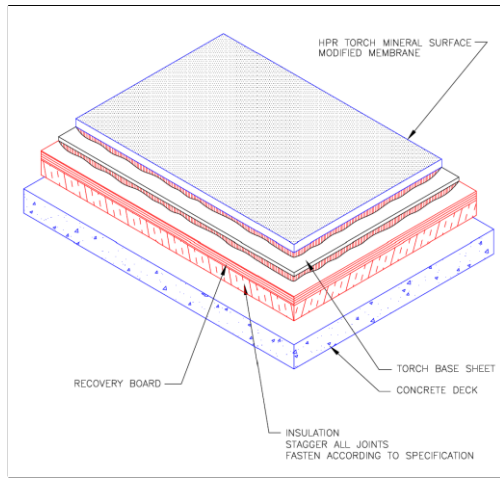
CITY OF MUSKEGON
 WATER FILTRATION PLANT
 1900 BEACH ST.
 MUSKEGON, MI 49441

SHEET TITLE:

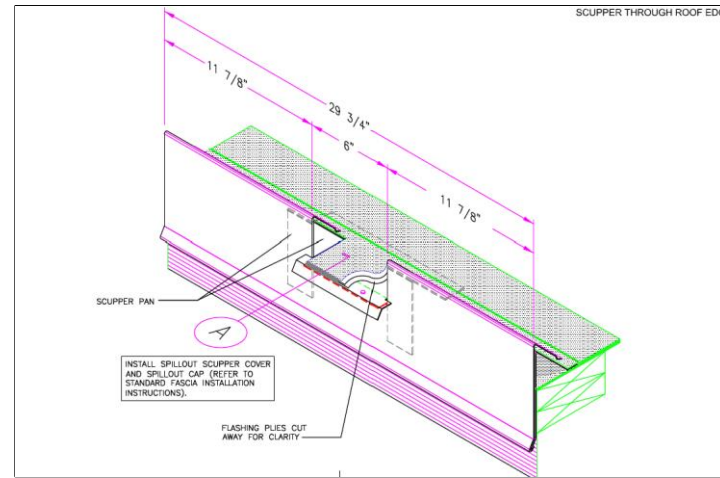
ROOF PLAN

SHEET NO.

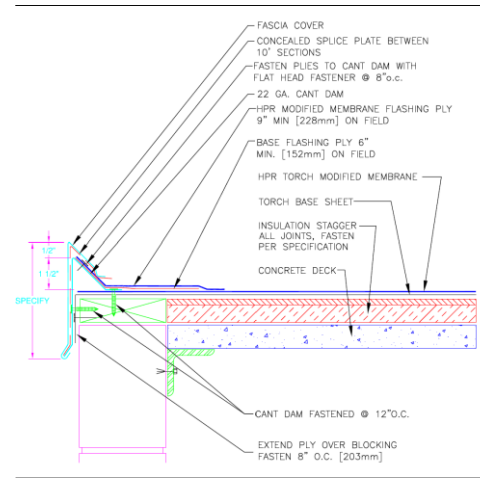
A3



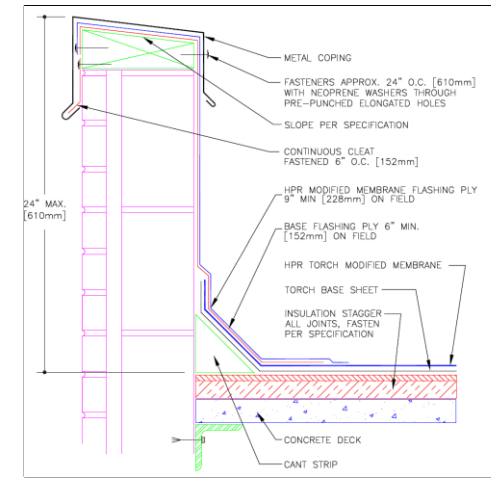
1 TYPICAL FIELD DETAIL
D1 N.T.S.



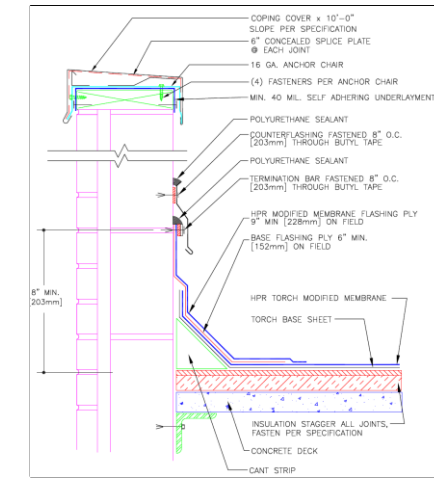
2 TYPICAL FASCIA SCUPPER DETAIL
D1 N.T.S.



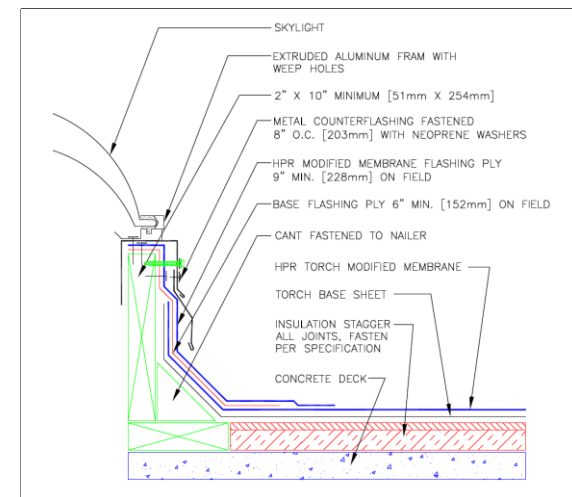
3 TYPICAL EDGE METAL DETAIL
D1 N.T.S.



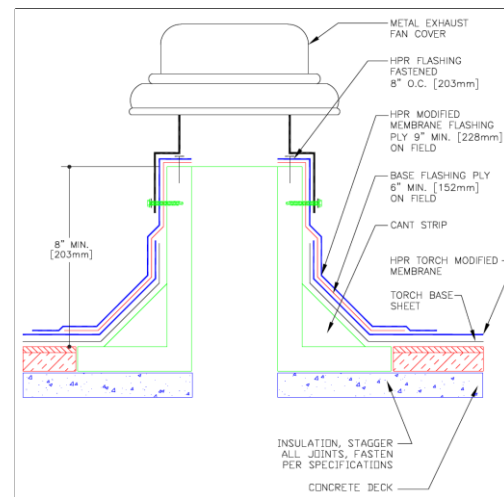
4 TYPICAL COPING CAP DETAIL
D1 N.T.S.



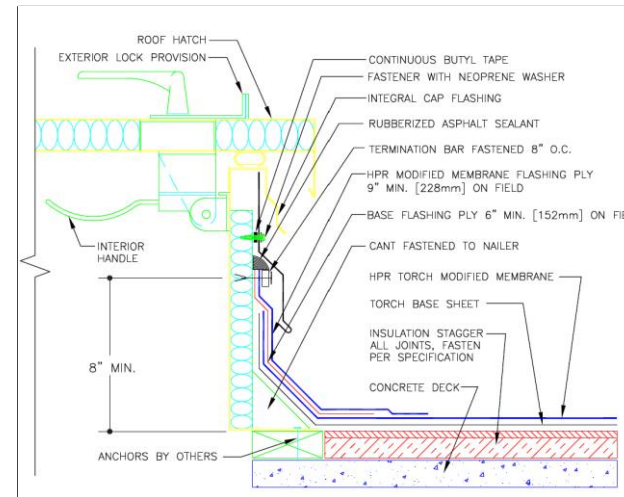
5 TYPICAL SURFACE-MOUNTED COUNTERFLASHING
D1 N.T.S.



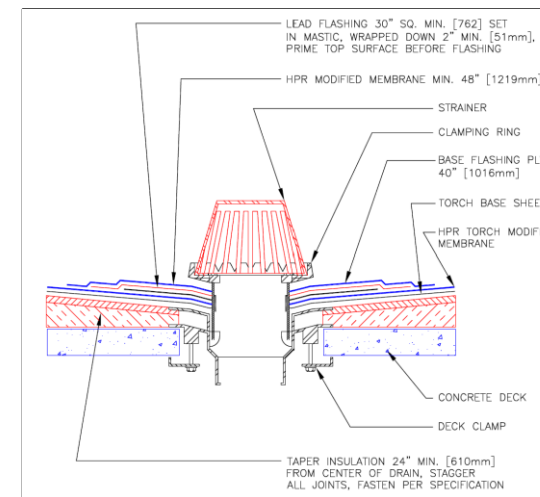
6 TYPICAL SKYLIGHT DETAIL
D1 N.T.S.



7 TYPICAL EXHAUST FAN DETAIL
D1 N.T.S.



8 TYPICAL ROOF HATCH DETAIL
D1 N.T.S.



9 TYPICAL DRAIN DETAIL
D1 N.T.S.



THE INFORMATION CONTAINED HEREIN IS OF A PROPRIETARY NATURE AND IS SUBMITTED IN CONFIDENCE FOR USE BY THE CLIENTS APPROVED BY THE ORIGINATOR OF THIS DOCUMENT ONLY. THE USE OF THESE DOCUMENTS FOR ANY OTHER PROJECTS, PURPOSE, LOCATION, PUBLICATION, REPRODUCTION OR DISTRIBUTION IN WHOLE OR PART, BY ANY INDIVIDUAL OR ORGANIZATION WITHOUT WRITTEN PERMISSION FROM THE ORIGINATING COMPANY IS PROHIBITED. THE INFORMATION HEREIN REMAINS THE PROPERTY AND ITS USE OR DISCLOSURE TO OTHERS IS PROHIBITED FOR ANY USE NOT AUTHORIZED BY THE ORIGINATING COMPANY.

APPROVED FOR BIDDING

CITY OF MUSKEGON
WATER FILTRATION PLANT
1900 BEACH ST.
MUSKEGON, MI 49441

SHEET TITLE:

DETAILS

SHEET NO.

D1

Detail Requirements

- 1) Details shown are representative of finished details. Contractors shall take into account existing insulation, new insulation, and the new roof system. Wood blocking shall be added to achieve the minimum flashing heights shown.
- 2) Deck types vary between roof areas and buildings. Contractor must verify roof decks and apply details accordingly.



NEW TERMINATION BAR AND
COUNTER-FLASHING TO BE
INSTALLED UNDER LIMESTONE

NEW SHEET METAL FLAT STOCK TO
BE INSTALLED ON BRICK FAÇADE
TO CREATE SMOOTH SUBSTRATE

1 WEST WALL ON SECTION #6
D2 N.T.S.



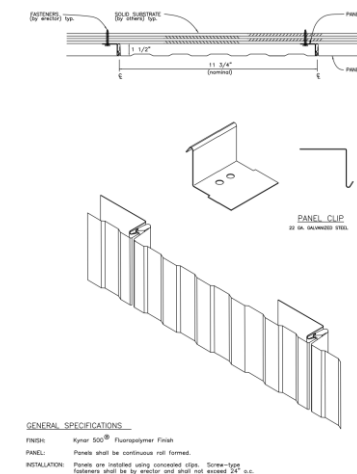
2 SAFETY RAILS AROUND ROOF HATCH – SECTION #6
D2 N.T.S.



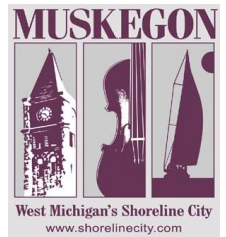
3 WALL PANEL ON SECTION #5 VERTICAL WALL
D2 N.T.S.



FAN FOIL VAPOR RETARDER THAT NEEDS TO BE REMOVED
N.T.S.



3 WALL PAN – MESA PROFILE
D2 N.T.S.



THE INFORMATION CONTAINED HEREIN IS OF A PROPRIETARY NATURE AND IS SUBMITTED IN CONFIDENCE FOR USE BY THE CLIENTS APPROVED BY THE ORIGINATOR OF THIS DOCUMENT ONLY. THE USE OF THESE DOCUMENTS FOR ANY OTHER PROJECTS, PURPOSE, LOCATION, PUBLICATION, REPRODUCTION OR DISTRIBUTION IN WHOLE OR PART, BY ANY INDIVIDUAL OR ORGANIZATION WITHOUT WRITTEN PERMISSION FROM THE ORIGINATING COMPANY IS PROHIBITED. THE INFORMATION HEREIN REMAINS THE PROPERTY AND ITS USE OR DISCLOSURE TO OTHERS IS PROHIBITED FOR ANY USE NOT AUTHORIZED BY THE ORIGINATING COMPANY.

APPROVED FOR
BIDDING

CITY OF MUSKEGON
WATER FILTRATION PLANT
1900 BEACH ST.
MUSKEGON, MI 49441

SHEET TITLE:

SHEET NO.

Detail Requirements

- 1) Details shown are representative of finished details. Contractors shall take into account existing insulation, new insulation, and the new roof system. Wood blocking shall be added to achieve the minimum flashing heights shown.
- 2) Deck types vary between roof areas and buildings. Contractor must verify roof decks and apply details accordingly.

CITY OF MUSKEGON – WATER FILTRATION PLANT

2022 – 2023 Roof Replacement

BASE PROPOSAL:

Company Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Contact Person/Signature: _____
Email: _____
Phone: (____) _____ Fax: (____) _____

Pursuant to and in compliance with the Invitation to Bid and having carefully examined the Bid Documents, the undersigned agrees to enter into an agreement with the City of Muskegon for the installation of a new roofing system for Sections #6 - #7 - #8 on the Water Filtration Plant Building located at 1900 Beach Street, Muskegon, MI 49441 as outlined in the Scope of Work and Specifications for the following costs:

Water Filtration Plant

Base Proposal – Section #6 - #7 - #8 – Approx. 17,150 SF

Project cost: \$_____ Fall of 2022

Project cost: \$_____ Spring of 2023

Unit Costs:

Replacement of drain \$_____ per unit

Replacement of Skylights (4'x6'): \$_____ per unit

Replace Hatch on Section #6 with 10' x 10' safety rails: \$_____ lump sum total

Acknowledgment of Addendum #1: _____
Initial Date

I AGREE TO ABIDE BY ALL OF THE TERMS OF THIS REQUEST FOR PROPOSAL UNLESS OTHERWISE STATED IN MY BID PROPOSAL.

Authorized Signature Date

Print Name, Title

Attached Documents:

- OMNIA – US Communities Material Bid Form
- Bid Security (five percent (5%) of the base bid) & Performance Bond (one hundred (100%))

PROJECT QUANTITIES

It is the intent of the City of Muskegon (“Agency”) to purchase materials for the City of Muskegon - Water Filtration Plant (“Project”) located in Muskegon County directly from Garland Inc., based upon the Agency’s participation in the U.S. Communities / OMNIA Government Purchasing Alliance’s program for Roofing Supplies and Related Products and Services, as priced by and awarded to Garland/DBS, Inc., resulting from the competitively solicited Sealed Bid # PW1925 issued by the Racine County Board of Commissioners.

Water Filtration Plant:

Base Bid – Section #6 - #7 - #8

Product #	Product Name	Unit / Size	Coverage Rate	Quantity
7612-5	Garla-Prime	5-gal	.5 gal./ Sq.	
4123	HPR GlasBase – Vapor Barrier	Roll	300 SF	
4411-80	HPR TorchBase – Base Sheet	Roll	100 SF	
4365	StressPly IV Mineral – Cap Sheet	Roll	75 SF	
7425-5	Silver-Flash Mastic	5-gal	1 gal./ 7 Inr. ft.	
4840-6	Gar-Mesh	Roll	50’ x 6”	
7612-5	Garla-Prime	5-gal	.5 gal./ Sq	
4112	HPR GlasBase – Vapor Barrier	Roll	300 SF	
4411-80	StressBase 80 – Base Sheet	Roll	150 SF	
4365	StressPly FR Mineral – Cap Sheet	Roll	75 SF	
7425-5	Silver-Flash Mastic	5-gal	1 gal./ 7 Inr. ft	
4840-6	Gar-Mesh	Roll	50’ x 6”	
7411-5	Garla-Brite	5-gal	1 gal./ sq.	

PLEASE NOTE:

1. It is the responsibility of the bidder to obtain any product-related information from the Garland representative prior to bid submission.
2. Additional Garland Material needed for this project needs to be included in the contractor’s base bid.
3. Contractor will EXCLUDE the above pricing from their base bid due to the fact the City will be buying the material directly from Garland through the US Communities Contract

END OF SECTION

**BID FORM
00 4100**

**SECTION 00 72 00
GENERAL CONDITIONS**

PART 1 GENERAL

1.1 DEFINITIONS

- A. The contract document consists of the AGREEMENT, the GENERAL CONDITIONS of the contract, the DRAWINGS and the SPECIFICATIONS, including all revisions hereto.
- B. The Owner, the Contractor and the Owner's Representative shall be indicated as such throughout these documents. The term Contractor as used herein shall designate the successful bidder to whom the roof contract is awarded.
- C. The term Owner shall be understood to be City of Muskegon – Water Filtration Plant.
- D. The term Owner's Representative shall be understood to mean the representative of The Garland Company.

1.2 OWNER'S REPRESENTATIVE STATUS

- A. The Owner's Representative shall have general Rights of Inspection of the work and is the agent of the Owner in all matters pertaining to the work as provided in the Contract Documents. The Owner's Representative has the authority to stop work whenever such stoppage may be necessary to ensure the proper execution of the contract and shall have authority to reject any and all materials, whether worked or unworked, if such materials are not in accordance with the plans and specifications.

1.3 CONDITON OF SITE

- A. The bidders shall visit the site before submitting their bids and determine the field conditions affecting their work. In considering the bids, the Owner will assume that the bidders are aware of all items, pertinent to their work and have made allowance for same in their bids.

1.4 VERIFICATION OF DIMENSIONS AND ELEVATIONS

- A. Dimensions and elevations indicated on the drawings in reference to existing structures or utilities are the best available data but are not guaranteed by the Owner's Representative and the Owner's Representative will not be responsible for their accuracy. Before bidding on any paperwork dependent upon the data involved, the Contractor shall field check and verify all dimensions, grades, lines, levels or other conditions of limitations at the site to avoid construction errors. If any work is performed by the Contractor or any of his/her subcontractors prior to adequate verification or applicable data, any resultant extra cost for adjustment of work as required to conform to existing limitations, shall be assumed by the Contractor without reimbursement or compensation by the Owner.

1.5 PROTECTION OF OWNER'S OPERATIONS

- A. The Contractor shall erect such barriers, tarpaulins, doors, etc., as may be necessary to protect the Owner's operations while work is in progress. Any such openings that are essential to carrying on the work shall be securely closed by the Contractor when not in use to protect the Owner's operations.

1.6 PROTECTION OF WORK AND PROPERTY

- A. The Contractor shall maintain adequate protection of all his/her work from damage and shall protect the Owner's and adjacent property from injury or loss arising from this contract. He/she shall provide and maintain at all times any danger signs, guards and/or obstructions necessary to protect the public and his/her workmen from any dangers inherent with or created by the work in progress. He/she shall hold the Owner harmless from any loss arising due to injury or accident to the public or his/her workmen, or from theft of materials stored at the job site. All materials will be stored in locations other than on roof surfaces except as necessary and shall then be placed on plywood or other type of material to protect the roof surface at all times.
- B. Before starting any work, the Contractor shall protect all grounds, copings, paving and exterior of all buildings where work will be performed.
- C. In those areas where materials and/or hot asphalt will be raised to the roof area, a protective covering shall be placed from the base of the wall extending up and over the top edge of the roof. This coverage shall be wide enough to assure that the exterior walls do not become stained or soiled during roofing operations.
- D. Any areas of the building or grounds which have become stained or damaged in any way shall be repaired or replaced by the Contractor prior to the final inspections. The method of repair used must be acceptable to both the Owner and the Owner's Representative.

1.7 MATERIAL STORAGE AND CLEAN-UP

- A. The Contractor shall keep the premises free from rubbish at all times and shall arrange his/her material storage so as not to interfere with the Owner's operations. At the completion of the job, all the unused material and rubbish shall be removed from the site. The ground shall be raked clean and the building shall be broom cleaned. If the Contractor refuses at any time to remove his/her debris from the premises, or to keep the working area clean, such cleaning will be completed by the Owner and deducted from the balance due the Contractor.
- B. The Contractor shall also remove drippage of bitumen or adhesive from all walls, windows, floors, ladders and finished surfaces. Failure to do so will result in the work being done by others and the cost shall be deducted from the balance due the Contractor.
- C. Materials must be delivered with manufacturer's label intact and legible. Labels must be affixed to the outside of the package stating the type of product, name and address of the manufacturer. All materials shall be stored and protected against weather, vandalism, and theft. Any materials found to be damaged or missing shall be replaced by the Contractor at no cost to the Owner.

1.8 INSPECTION OF WORK

- A. Where the drawings or specifications require the inspection and approval of any work in progress by the Owner's Representative, the Contractor shall give that Representative ample notice to allow for scheduling the inspection, which shall be made promptly to avoid delay of work. If work has progressed without the required inspections or approval by the Representative, it shall be uncovered for inspection at the Contractor's expense.
- B. Uncovering of work not originally inspected, or uncovering questioned work may be ordered by the Owner's Representative and it shall be done by the Contractor. If examination proves such work to be incorrectly done or not done in accordance with the plans and specifications, the Contractor shall bear all cost of the reexamination. If the work is proven correctly installed, all such expense shall be borne by the Owner.

1.9 INSPECTION OF WORK IN PROGRESS AND UPON COMPLETION

- A. If directed by the Owner's Representative, the Contractor shall cut not more than four (4) cores, of approximately 200 square inches each, from every newly constructed roof area, in

order to establish the amount of materials used per square foot, and shall restore all such areas to sound and watertight conditions as prior to the core testing.

- B. In the event that such core cuts disclose any deficiency in materials, or soundness of construction, the Contractor shall, at his/her own expense, apply additional materials or otherwise correct the deficiencies to the satisfaction of the Owner's Representative.
- C. Noncompliance with the terms of this specification and ensuing contract can result in either the cancellation of the contract, or complete replacement of the defective areas at the Contractor's expense. In the event of cancellation, the Owner will not be obligated to compensate the Contractor for any work undertaken in a defective manner
- D. Damages caused by water infiltration resulting from the failure of the Contractor to secure each day's work in a weather tight manner, will be corrected at the Contractor's expense. Included as damages will be all labor costs incurred by the Owner as a result of such water infiltration.
- E. The Owner will require the Owner's Representative to examine the work in progress, as well as upon completion, in order to ascertain the extent to which the materials and procedures conform to the requirements of these specifications and to the published instructions of the Manufacturer.
- F. The authorized Owner's Representative shall be responsible for:
 - 1. Keeping the Owner informed on a periodic basis as to the progress and quality of the work;
 - 2. Calling to the attention of the Contractor those matters he/she considers to be in violation of the contract requirements;
 - 3. Reporting to the Owner any failure or refusal of the Contractor to correct unacceptable practices;
 - 4. Conducting preliminary and subsequent job-site meetings with the Contractor's official job representative;
 - 5. Supervising the taking of test cuts, and the restoration of such areas;
 - 6. Rendering any other inspection services which the Owner may designate; and
 - 7. Certifying, after completion of the work, the extent to which the Contractor has complied with these specifications as well as to the published instructions of the Manufacturing Company.
- G. The presence and activities of the Owner's Representative shall in no way relieve the Contractor of his/her contractual responsibilities.

1.10 MISCELLANEOUS UTILITIES

- A. Electrical power will be furnished by the Owner for small tools only. All connections to the electrical system will be furnished by the Contractor.
- B. Water for concrete, mortar, washing and drinking purposes will be furnished by the Owner. Any connections to the water system shall be completed by the Contractor.
- C. At the completion of the work, or when the above connections are no longer required, the Contractor shall remove all connections and leave the facilities in a condition at least as satisfactory as prior to the commencement of his/her work.
- D. Toilet facilities will be provided by the Contractor. The Contractor will be responsible for supplying a portable toilet on the job-site. The Contractor's personnel are not permitted to enter the building without proper authorization from the Owner or Owner's Representative.

1.11 CHANGES OR EXTRA WORK

- A. The Owner may, without invalidating the original contract, order such changes or additions as may from time to time be deemed desirable. In so doing, the contract price shall be adjusted, as stated below, with all work being done under the conditions of the original contract except for such adjustments in extension of time as may be acceptable to the Owner. The value of such extra work shall be determined in one of the following ways:

1. By firm adjustment;
 2. By cost plus with a guaranteed maximum;
 3. By cost with a fixed fee; or
 4. By unit cost.
- B. If agreement is reached that the extra cost shall be handled as per methods 2, 3, or 4, the Contractor shall keep and compile a correct amount of the cost together with such vouchers, etc., as may be necessary to substantiate same for presentation to the Owner. The Owner's Representative shall have authority to make minor job changes or additions as may be necessary to expedite the job providing such changes do not involve additional material cost. No major change or addition shall be made except upon receipt by the Contractor of a signed order from the Owner authorizing such a change. No claims for an extra to the contract price shall be valid unless so authorized.
- C. All work covered by unit prices submitted by the Contractor in his/her proposal must be covered by a written work order. The Owner's Representative will prepare the work order in triplicate covering the quantity of work and the total cost of the work. The work order which will be written at the end of each day, will be signed by the Owner's Representative and the Contractor's foreman and/or superintendent.
- D. For material increases that can't be accounted for during the bid phase due to inflation, contractor will provide City of Muskegon the material quote used for bidding from distribution house and/ or manufacturer and the new quote once material is delivered. The difference of material pricing is going to be allowable to submit for a change order. No mark-up will be allowable on these change orders.

1.12 CORRECTION OF WORK PRIOR TO FINAL PAYMENT

- A. The Contractor shall promptly remove any work that does not meet the requirements of the plans and specifications or is incorrectly installed or otherwise disapproved by the Owner of the Owner's Representative as failing to meet the intent of the plans and specifications. The Contractor shall promptly replace any such work without expense to the Owner and shall bear the cost of making good all work of other contractors, or the Owner, destroyed or damaged by such removal or replacement.

1.13 CORRECTION OF WORK AFTER FINAL PAYMENT

- A. The Contractor shall guarantee all materials and workmanship for two (2) years from date of final payment of the contract by the Owner. Any defects which may arise during this period shall be promptly repaired by the Contractor including any damage done to the Owner's property due to such defects.

1.14 DEDUCTION FOR UNCORRECTED WORK

- A. If the Owner deems it unacceptable to have the Contractor correct work which has been incorrectly done, a deduction from the contract price shall be agreed upon therefore. Such a deduction from the contract price shall in no way affect the Contractor's responsibility for defects which may occur nor his/her ability for correcting them, and damage caused by them.

1.15 LIENS

- A. The Contractor shall, if required by the Owner, furnish him/her with a release in full of all liens arising out of this contract or in lieu thereof, and receipts in full for all materials and labor on the job. In either case, the Contractor shall furnish an affidavit that the liens or receipts include all the labor and material for which a lien could be filed. In lieu of the above, the Contractor may at his/her option furnish a bond to indemnify the Owner against all

hazard of liens. Neither part nor final payment shall in any way release the Contractor from the above obligation and in the event that part or full payment has been made and any lien remains undischarged, the Contractor shall refund to the Owner the necessary funds to discharge such a lien including all cost and attorney's fees.

1.16 JOB CONDITIONS

- A. All surfaces to be covered shall be smooth, dry, and free from dirt, debris, and foreign material before any of this work is installed. Pumping equipment shall be located on the ground at a safe distance from building; the location being subject to the approval of the Owner. The Contractor shall be responsible for guarding against fires, and shall provide suitable fire extinguishers conveniently located at the site. Competent operators shall be in attendance at all times equipment is in use. Materials shall be stored neatly in areas designated by the Owner and dispersed so as to present a minimum fire hazard. Loads placed on the roof at any point shall not exceed the safe load for which the roof is designed.
- B. There is NO SMOKING allowed inside any buildings and the Contractor shall be responsible for enforcement of this job rule at all times with his/her personnel.
- C. The Contractor should be aware of Owner's property when tearing off the existing roof. This is required for removal of dirt, silt, debris, roof membrane and insulation from the roof surface in order to preserve the ecology, eliminate unsightly conditions and protect building faces. Specific locations will be discussed at the pre bid conference.
- D. Rolled Roofing Materials: All rolled roofing materials must be stored standing on end on a pallet or otherwise raised off of the roof. The materials are to be covered in a proper manner to assure that they will not become wet prior to application. Any materials that become wet or damaged must be removed from the job-site and replaced at the Contractor's expense.
- E. Ladders: Any ladders used on this project must be in good condition. The ladder must also be secured at the roof line at all times while in use. All ladders must be O.S.H.A. approved.
- F. No drugs or alcoholic beverages are permitted on the grounds.
- G. The Contractor shall place necessary barriers and/or protection around or under all work areas where his/her operations involve risk of injury to plant.
- H. The Contractor will also protect the building structure from damage in the process of the job. In the event that damage does occur to any property or equipment, or the Owner's work in process, notification must be made within two (2) working days of the incidents to the Owner and Owner's Representative.
- I. During the progress of the job, if waste material and rubbish are found or damage resulting from the Contractor's operations is found, or the Contractor does not comply with the requirement by keeping the premises free of accumulations and correct the damage, it shall be the Owner's prerogative to hire personnel to do so; and the cost of this work will be deducted from the balance due the Contractor.
- J. Existing roof top equipment walls, windows, etc. shall be completely protected by masking or other effective methods. Any mastics or asphalt must be cleaned off metal surfaces.
- K. The Contractor is responsible for protecting all materials from the elements. If any material, such as insulation, becomes wet, it cannot be installed and must be replaced at the Contractor's expense. NOTE: Insulation and rolled roofing materials must be covered with waterproof tarps at the end of each work day. Plastic wrappers supplied by the insulation manufacturer are not acceptable substitutes for tarps. The Owner's Representative will reject any covering method material which does not adequately protect roofing materials.
- L. Anyone guilty of willful destruction or unlawful removal of company property will be dismissed from the job and is subject to prosecution by law.
- M. Any lawns damaged by Contractor vehicles will be restored with a stand of grass at the Contractor's expense. Any damaged pavements will likewise be restored at the Contractor's expense.
- N. The Contractor must verify that all materials can be installed to accommodate the building design, pertinent codes and regulations, and the manufacturer's current recommendations.

- O. The Contractor will ensure that all substances are clean, dry, sound, smooth, and free of dirt, debris, and other contamination before any materials are supplied.
- P. Any isolated areas that must be torn off and replaced will be built-up to the height of the existing roof prior to the installation of the new roofing membrane system.

1.17 WORKMANSHIP

- A. All materials will be securely fastened and placed in a watertight, neat and workmanlike manner. All workmen shall be thoroughly experienced in the particular class or work upon which they are employed. All work shall be done in accordance with these specifications and shall meet the approval of the Owner or Owner's Representative. The Contractor's representative or job supervisor shall have a complete copy of specifications and drawings on the job-site at all times.
- B. Contractor shall plan and conduct the operations of the work so that each section started on one day is complete and thoroughly protected before the close of work for that day.

1.18 INSULATION

- A. Insulation shall have accurate dimensional stability so as to properly conform to the surfaces of the roof, cants, curbs, pipes, etc. Joints between boards shall be tight and insulation shall be held back ½" from vertical surfaces and sumps. Insulation shall be protected from the weather at all times. No more insulation shall be laid than can be completely covered with roof materials on the same day. A base sheet shall not be considered as a proper weather barrier.
- B. Insulation that becomes wet during or after installation shall be removed and replaced with dry insulation. If roofing is in place, the roofing shall be also replaced. All replacing work shall be done at no added cost to the Owner.

1.19 ROOF DECK

- A. Contractor shall notify the Owner or Owner's Representative of any unforeseen areas of wet insulation. Where the damage is serious and extensive, it will be the Owner's prerogative to authorize removal and replacement of deteriorated roofing, insulation and repair of the vapor barrier, if present. Where damage to the roof deck is found, the Contractor shall furnish the Owner with a unit price for removal and replacement of the damaged deck.

1.20 SAFETY

- A. Contractor shall conform to requirements as designated by the United States Federal Government (O.S.H.A.). Contractor shall abide by all regulations as outlined in the O.S.H.A. handbook and shall have a handbook on location at all times.
- B. Contractors hereby acknowledged that they and their workers have undergone Safety Training and shall at all times act in compliance with all NRCA recommended safety compliance rules and regulations.

1.21 INSURANCE

- A. The following standard indemnity agreement and minimum insurance requirements are incorporated in the Specifications for all work performed by Contractors for the Owner, its affiliated and associated organizations or subsidiaries, hereinafter referred to as Owner.
 - 1. THE CONTRACTOR AGREES TO INDEMNIFY AND SAVE THE OWNER AND OWNER'S REPRESENTATIVE HARMLESS FROM AND AGAINST ANY AND ALL COSTS, LOSS AND EXPENSE, LIABILITY DAMAGES, OR CLAIMS FOR DAMAGES, INCLUDING COST FOR DEFENDING ANY ACTION, ON ACCOUNT OF

ANY INJURY TO PERSONS (INCLUDING DEATH) OR DAMAGE TO OR DESTRUCTION OF PROPERTY OF THE OWNER, ARISING OR RESULTING FROM THE WORK PROVIDED FOR OR PERFORMED, OR FROM ANY ACT, OMISSION, OR NEGLIGENCE OF THE CONTRACTOR, SUBCONTRACTOR AND THEIR AGENTS OR EMPLOYEES. THE FOREGOING PROVISIONS SHALL IN NO WAY BE DEEMED RELEASED, WAIVED OR MODIFIED IN ANY RESPECT BY REASON OF ANY INSURANCE OR SURETY PROVIDED BY THE CONTRACTOR.

2. All sub-contractors are required to file Certificated of Insurance properly completed and signed by an authorized insurance company representative before their work commences on the job or job site. No monies will be paid until the acceptable certificates are on file with the Contractor. Such certificates shall provide that there will be no cancellation, reduction or modification of coverage without thirty (30) days prior written notice to the Contractor. In the event such certificates are not provided to the Contractor prior commencement of work, Contractor's failure to demand such certificates shall not be deemed a waiver of Subcontractor's requirement to obtain the subject insurance.
3. The Contractor shall provide and maintain standard fire, extended coverage perils, vandalism and malicious mischief insurance to protect the interest of both the Contractor and the Owner for materials brought into the job or stored on the premises. Such insurance shall be for 100% of the insurable value of the work to be performed including all items of labor and materials incorporated therein, materials stored at the job-site to be used in completing the work, and such other supplies and equipment incidental to the work as are not owned or rented by the Contractor, the cost of which are included in the direct cost of the work. This insurance shall not cover any tools, derricks, machinery, tar buckets, ladders, engines, workmen's quarters, boilers, pumps, wagons, scaffolds, forms, compressors, shanties, or other items owned or rented by the Contractor, the cost of which is not included in the direct cost of the work.
4. In accordance with Section (1.21), the Contractor and subcontractor(s) shall maintain the following insurance:
 - a. Workmen's Compensation and Employer's Liability Insurance affording:
 - 1) Protection under the Workmen's Compensation Law of the States in which the work is performed; and
 - 2) Employer's Liability protection subject to a minimum limit of \$100,000.
 - b. Comprehensive General Liability Insurance in amounts not less than:
 - 1) Personal Injury: \$1,000,000 per person
(Including bodily injury) \$1,000,000 per occurrence
 - 2) Property Damage: \$1,000,000 per occurrence
 - c. Comprehensive Automobile Liability Insurance in the following minimum amounts:
 - 1) Bodily Injury \$1,000,000 per person
\$1,000,000 per occurrence
 - 2) Property Damage \$1,000,000 per occurrence
 - d. This insurance shall:
 - 1) Include coverage for the liability assumed by the Contractor under this section (section 1.21.A.1) (Indemnity);
 - 2) Includes coverage for:
 - a) Premises, operations and mobile equipment liability
 - b) Completed operations and products liability
 - c) Contractual liability insuring the obligation assumed by the subcontractor in this agreement.
 - d) Liability which subcontractor may incur as a result of the operations, acts or omissions of subcontractors, suppliers or material men and their agents or employees; and

- e) Automobile liability including owned, non-owned and hired automobile.
- e. All coverage will be on an occurrence basis and on a form acceptable to the Contractor.
 - 1) Include completed operation coverage which is to be kept in force by the Contractor for a period of not less than one year after completion of the work provided for or performed under these specifications;
 - 2) Not be subject to any of the special property damage liability exclusions commonly referred to as the exclusions pertaining to blasting or explosion, collapse or structural damage and underground property;
 - 3) Not be subject to any exclusion of property used by the insured or property in the case, custody or control of the insured or property as to which the insured for any purpose is exercising physical control; and
 - 4) The Certificate of Insurance furnished by the Contractor shall show specific reference that each of the foregoing items have been provided for.
- 5. The Certificates of Insurance furnished by the Contractor as evidence of the Insurance maintained by him shall include a clause obligating the Insurer to give the Owner thirty (30) days prior written notice or cancellation of any material change in the insurance.

1.22 WORK HOURS AND DAYS

- A. When the Contract is awarded, the Contractor will contact the Owner's Representative to arrange the work schedule and the hours of the day that the workmen may be on the building. The job is to be bid under the assumption that all work will be performed on a straight time basis.
- B. All work shall be completed within 60 days of project approval.

1.23 COMPLIANCE WITH LAWS

- A. The Contractor shall give notices, pay all fees, permits and comply with all laws, ordinances, rules and regulations bearing on the conduct of work.

1.24 OWNER'S RULES

- A. The Contractor and all his/her personnel/agent(s) shall abide by all rules created by the Owner. The Contractor must contact the Owner's Representative for specific information regarding the rules governing all operations of the project.
- B. The Contractor shall properly notify all employees of conditions relating to roof areas with very poor condition and which will be worked on. After such notification, the Contractor must take all necessary precautions to ensure the safety of his/her employees as well as the building personnel.
- C. THE CONTRACTOR SHALL "HOLD HARMLESS" THE MATERIAL MANUFACTURER, AGAINST ANY LITIGATION ARISING FROM ANY ACCIDENTS DURING THE COURSE OF THE CONTRACT.

1.25 SAFETY AND ECOLOGY

- A. The Contractor(s) shall conform to the requirements as designated by the United States Federal Governments (e.g., O.S.H.A).

1.26 ANTI-DISCRIMINATION IN EMPLOYMENT

- A. Contractors and subcontractors shall not discriminate against any employees or applicant for employment, to be employed in performance of his/her contract, with respect to his/her hire, tenure, terms, conditions or privileges of employment because of his/her race, color, gender, sexual preference, religion, national origin, or ancestry.

PART 2 INSTRUCTIONS TO BIDDERS

2.1 WITHDRAWAL OR MODIFICATION OF BID

- A. Any Bidder may withdraw his/her bid at any time before the scheduled closing date of the bid by appearing in person or by sending an authorized representative of the Bidder. An appointment should first be scheduled by calling the Owner's Representative. The Bidder or his/her representative shall be asked to sign, in writing that the bid was returned to him/her/ after the withdrawal from the contract, the Bidding Contractor may not resubmit them.

2.2 BID OPENINGS

- A. Bids will be opened publicly and read aloud. Bids received after that time will be returned unopened. Envelopes shall be sealed and marked "2022-2023 Roof Project – Water Filtration Plant".

2.3 QUESTIONS

- A. Technical questions regarding this bid can be directed to: TJ Morris
- B. If the Contractor feels a conflict exists between what is considered good roofing practice and these specifications, he/she shall state in writing all objections prior to submitting quotations.
- C. It is the Contractor's responsibility, during the course of the work, to bring to the attention of the Owner's Representative any defective membrane, insulation or deck discovered which has not been previously identified.

2.4 RESPONSIBILITY FOR MEASUREMENTS AND QUANTITIES

- A. The Bidding Contractors shall be solely responsible for all accuracy of all measurements and for estimating the material required to satisfy these specifications.

2.5 DISCREPANCIES AND ADDENDA

- A. Should a Bidder find any discrepancies in the Drawings and Specifications, or should he be in doubt as to their meaning, he/she shall notify the Owner's Representative at once, who will send a written Addendum to all Bidders concerned. Oral instructions or decisions, unless confirmed by Addenda, will not be considered valid, legal or binding.
- B. No extras will be authorized because of the Contractor's failure to include work called for in the Addenda in his/her bid.
- C. It shall be the responsibility of all Bidders to call to the Owner's Representative's attention at the pre bid meeting, any discrepancies which may exist between or with any of the contract documents, or any questions which may arise as to their true meaning.
- D. Modifications to the specifications (if necessary) will be followed by an addendum; no verbal discussions or agreements shall be recognized.

2.6 COMPETENCY OF THE BIDDERS

- A. To enable the Owner to evaluate the competency and financial responsibility of a Contractor, the low Bidder shall, when requested by the Owner, furnish the information indicated in

Section 5.0 below, entitled Contractor's Qualification Statement, which shall be sworn to under oath by him/her or by a properly authorized representative of the Bidder.

2.7 DISQUALIFICATION OF BIDDERS

- A. Any one or more of the following causes may be considered sufficient for the disqualification of a Bidder and the rejection of his/her bid(s):
1. Failure to attend the pre bid meeting;
 2. Evidence of collusion among Bidders;
 3. Lack of responsibility as revealed by either financial, experience or equipment statements, as submitted;
 4. Lack of expertise as shown by past work, and judged from the standpoint of workmanship and performance history;
 5. Uncompleted work under other contracts which, in the judgment of the Owner, might hinder or prevent the prompt completion of additional work if awarded; or
 6. Being in arrears on existing contracts, in litigation with an Owner, or having defaulted on a previous contract.

2.8 NOTICE OF AWARD

- A. The award of this contract for the work is contingent upon receipt of an acceptable bid. Any part of or all bids may be rejected. All bids shall be good for a period of ninety (90) days following the date the bids are due. The contract shall be deemed as having been awarded when the formal notice of acceptance of his/her proposal has been duly served upon the intended awardee by an authorized officer or agent of the Owner.
- B. All work shall be completed no later than June 30, 2023. If work isn't completed on time, \$300 per day in liquidated damages will be charged to the contractor.

2.9 WARRANTY

- A. A written warranty which will commence from date of acceptance by Manufacturer must be supplied with the roof installation. This warranty will cover all defects in workmanship and materials. Damages caused by storm, vandalism and other trades are not included in the warranty. This warranty shall be from the manufacturer (See further, Statement of Policy).
- B. A two (s) year workmanship warranty is required from the Contractor for all remedial maintenance done under the terms of this contract.

2.10 START AND COMPLETION DATE

- A. Work shall begin within thirty (30) days from the award of this contract, or as agreed upon by all parties.
- B. All work as required in these specifications and drawings shall be completed within sixty (60) days of the start date, or as agreed upon by the parties.
- C. Unless work is hampered by long period of inclement weather, by due proof of material unavailability, or by strike, the Owner will assess a penalty in the amount of \$300.00 a day for each day beyond the agreed completion date.
- D. The Contractor is responsible for supplying trained workmen in proper numbers and for scheduling and laying out his/her work, so that it will be started and completed in a professional manner within the time period indicated on his/her proposal form.
- E. If the Contractor sets equipment onto the job-site without commencing work immediately, the action will be considered "Spiking the job" which is unacceptable and will be considered a breach of contract by the Contractor; thereby, the contract will be terminated and the Contractor at no cost to the Owner, must remove his/her equipment and possessions from the job-site upon notification by the Owner.

- F. All work must be completed no later than June 30, 2023.

2.11 PAYMENT

- A. Payment for materials shall only be made after the material has been delivered to the job-site. An invoice for the material must be presented to the Owner for payment. Materials are not to be delivered to the job-site until the project is ready to begin. The Contractor must provide a release of lien from the Material Manufacturer. Subsequent requests for payment can be made monthly. Final payment for the project will be made following completion, after final inspection has been made and an invoice presented to the Owner. A 10% retainer shall be held until delivery of the warranty.
- B. When the job in progress is interrupted for two (2) weeks or longer by causes beyond the Contractor's control such as a strike, weather, acts of God, etc., the Owner agrees to pay, upon request of the Contractor, a price equivalent to the percentage of work completed at that time. Regular progress payments shall be made for labor and/or materials.
- C. Each invoice shall be accompanied by a detailed estimate of the amounts and values of labor expended and materials purchased up to the last day of the preceding month. The amount of the invoice shall not exceed ninety percent (90%) of the labor and material values estimated for the preceding month.
- D. Such payments shall be viewed by both parties as progress payments and shall not in any way relieve the Contractor of performance obligations under this contract, nor shall such payments be viewed as approval or acceptance of work performed under this contract.
- E. Final payment shall be withheld until all provisions of the specifications are met, including all necessary clean-up, and the Owner receives written verification of completion.
- F. Upon completion of the job, the Owner, the Owner's Representative, and the Contractor will make final inspection of the work done, and the Owner's Representative if requested by Owner's Representative.
- G. All payments for material used in the execution of this contract can be made by a check issued jointly, payable to the Contractor and Owner's Representative will sign a completion slip authorizing final payment.
- H. If requested by the Owner and/or Owner's Representative, the Contractor shall provide a Letter of Credit from the bank to secure payment to material supplier.
- I. If requested by the Owner and/or Owner's Representative, a certified check shall be paid by the Contractor to material supplier prior to release of order.
- J. If requested by the Owner and/or Owner's Representative, a certified check shall be paid by the Contractor to material supplier via common carrier upon receipt of delivery.
- K. Contractor shall have a pre-approved line of credit from the material supplier.
- L. Final payment shall be made to the Contractor no later than thirty (30) days after job approval, providing the Contractor submits waivers of lien with his/her final invoice indicating that all suppliers have been paid.

2.12 PERFORMANCE AND PAYMENT BOND

- A. The successful Contractor will be responsible for securing a performance and payment bond from an acceptable bonding company. The cost of the bond will be paid directly by the Contractor. Contractor has to identify his/her bonding company and agent, submitting this documentation with his/her proposal. Note: See "Instruction to Bidders."
 - a. Performance Bond – 100%
 - b. Bid Bond – 5%
- B. Financial documentation prescribed by the Owner to ensure that the Contractor is financially sound and capable of supporting the project to its conclusion.
- C. If the successful Bidder is incorporated, an affidavit authorizing persons to sign for the Corporation. This should be in the form of minutes of the meeting of the Board of Directors,

authorizing person or persons to sign for this contract work and indicating a quorum being present.

2.13 TERMINATION BY THE OWNER FOR CAUSE

- A. The Owner may terminate the contract and finish the work by whatever reasonable method he/she deems expedient if the Contractor:
 - 1. Persistently or repeatedly refuses to supply specified materials or to provide enough skilled workers to ensure the project will be completed within the time period indicated on his/her Proposal form;
 - 2. Fails to make payment to sub-contractors and/or suppliers for labor and materials as stipulated in the contract documents; and
 - 3. Is guilty of substantial breach of a provision of the contract documents.
- B. When the Owner terminates the contract for any of the above reasons, the Contractor shall not be entitled to receive further payment until the work is finished. If the unpaid balance of the contract sum exceeds the cost of finishing the work, it will be paid to the Contractor. If the cost to finish the work exceeds the unpaid balance, the Contractor shall pay the difference to the Owner.

2.14 COMPLIANCE WITH LAWS

- A. The Contractor shall give notices, pay all fees, permits and comply with all laws, ordinances, rules and regulations bearing on the conduct of work.

PART 3 CONTRACTOR'S INSTRUCTIONS

3.1 TAXES

- A. Contractor must comply with all state, federal and local taxes. The Contractor shall accept sole and exclusive responsibility for any and all state federal taxes with respect to Social Security, old age benefits, unemployment benefits, withholding taxes and sales taxes.

3.2 CONTRACTOR'S LICENSE

- A. All pertinent state and local licenses will be required.

3.3 QUALIFICATION OF BIDDERS

- A. Provide State of Michigan pre-certification forms.

3.4 BUILDING PERMITS

- A. The acquisition of the applicable permits and associated costs to obtain said permits will be the responsibility of the successful Contractor.

3.5 JOB COORDINATION

- A. Contractor is responsible for daily communication with the Owner or Owner's Representative relating to areas of roof work in order that the Owner may adequately protect tenant's personal belongings, and the people themselves against possible damage or injury. Contractor is also responsible for policing and protecting areas involving removal and replacement of roof projections, defective decking or other work involving deck penetration.
- B. Twenty-four hours prior to starting of the project and/or delivery of materials, the Contractor shall notify Joe Butker & TJ Morris / Ian Mattoon.

3.6 CLEAN-UP

- A. Accumulated debris shall be removed periodically to assure maximum safety and sanitation at all times. At completion of work, the Contractor shall remove all excess material and debris from the site and leave all roof surfaces free from accumulations of dirt, debris and other extraneous materials. The Contractor shall also remove any and all drippage of bituminous materials from the face of the buildings, floor, window, ladders and other finished surfaces.

3.7 SUPERINTENDENT

- A. The Contractor shall keep a competent superintendent, satisfactory to the Owner and Owner's Representative, on the job at all times when work is in progress. The superintendent shall not be changed without notifying the Owner and the Owner's Representative unless the superintendent ceases to be in the employ of the Contractor.
- B. The superintendent shall represent the Contractor in his/her absence and all directions and instructions given to the superintendent shall be as binding as if given directly to the Contractor.
- C. The superintendent shall be responsible for the conduct of all the Contractor's employees on the premises and shall promptly take necessary measures to correct any abuses called to his/her attention by the Owner.

3.8 INSPECTIONS

- A. Before any material applications are made, the Owner or his/her representative and the material supplier representative shall be available to ensure a complete understanding of the specification.
- B. The accepted Material Manufacturer will have a representative on site a minimum of three (3) times a week to verify compliance with the specifications, answer questions that may arise and provide on-going inspection services.
- C. A final inspection shall be conducted by Owner, Contractor, and the Owner's Representative upon being notified of completion of specified work and clean-up.

PART 4 – STATEMENT OF POLICY

4.1 ENGINEERING

- A. In addition to high-quality products, the Material Manufacturer provides recommendations and/or specifications for the proper installation of its material. However, the Material Manufacturer does not, nor does its representative, practice engineering or architecture. The Material Manufacturer makes no judgments on, and hereby disclaim any responsibility for the soundness of any roof deck or other structural component of buildings upon which the Material Manufacturer products are applied, and further recommend a structural engineer to examine the deck conditions. Re-roofing or Ballasted Roofing Systems will require certification from a structural engineer that the structure will support the proposed additional weight.

4.2 GUARANTEES

- A. A roofing guarantee is available for review from the Material manufacturer for the roofing systems published in these specifications. The guarantee will be issued only upon completion of all the guarantee requirements by an approved Contractor. Such guarantees cannot be altered or amended, nor may any other warranties, guarantees or representations be made by an agent or employee of the Material Manufacturer unless such alteration, amendment or

additional representation is issued in writing and is signed by a duly authorized officer of the Material Manufacturer, and sealed with the Material Manufacturer seal. This guarantee does not cover cosmetic deficiencies. THE MATERIAL MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY DAMAGES TO THE BUILDING OR ITS CONTENTS OR ANY OTHER CONSEQUENTIAL DAMAGES, AND ITS RESPONSIBILITY IS LIMITED TO REPAIRING LEAKS. The Contractor will warranty the roof to the Material Manufacturer for a period of two (2) years. The Contractor will inspect the roof with the Owner's Representative 18 months after completion, and, at the Contractor's expense, correct any workmanship defects before the 24th month following completion of the project.

4.3 APPROVED CONTRACTORS

- A. The roof systems must be applied only by those contractors who have received approval from the Material Manufacturer for such installations. No guarantees will be issued when installation has been performed by a non-approved contractor.

4.4 ROOFING SEQUENCE

- A. Phase roofing is not acceptable. Any insulation or base layers laid in any one day must be covered with the properly installed roof system that same day. Failure to do so will void any warranties and no guarantee will be issued for the roofing system.

4.5 ACCEPTABILITY OF COMPLETED WORK

- A. The acceptability of completed roofing work will be based on its conformance to the contract requirement. The Material Manufacturer is not obligated to accept non-conforming work, and such non-conforming work may be rejected. The rejected work shall be promptly replaced or corrected in a manner and by methods approved by the Material Manufacturer at the Contractor's expense. The Material Manufacturer will instruct the Contractor's foreman and work crew on the proper methods of installation of the roofing system, and will follow-up on a regular basis to inspect the work being done. Any deficiencies from the specified work noted by the Material Manufacturer will be immediately reported to the Owner, along with recommended corrective actions necessary. The Material Manufacturer will not act in a supervisory capacity, and will not be responsible for the Contractor's errors or omissions.

4.6 ENGINEERING AND ROOF DECK

- A. The Material Manufacturer nor its representatives, practice engineering nor architecture. It makes no judgments on, and hereby disclaim any responsibility for the soundness of any roof deck or other structural component of buildings upon which its products are applied. Re-roofing and general building structuring require certification from a structural engineer that the structure will support the proposed additional weight. In addition, the Contractor must notify the Owner or his/her representative on the job-site of any unforeseen areas of wet insulation. Where the damage is serious and extensive, it will be the Owner's prerogative to authorize removal and replacement of deteriorated roofing, insulation and repair of the vapor barrier if present. Where damage to the roof deck is found, the Contractor shall furnish the Owner with a unit price for removal and replacement of the damaged deck.

4.7 ASBESTOS IDENTIFICATION

- A. The Material Manufacturer routinely conducts roof surveys and inspections in order to provide recommendations and/or specifications for the use of its products. However, the MATERIALS MANUFACTURER IS NOT, NOR ARE ITS REPRESENTATIVES, CERTIFIED

TO IDENTIFY, HANDLE OR MONITOR ASBESTOS IN ROOFING, DECKING OR INSULATION. THEREFORE, IT MAKES NO JUDGMENTS ON AND HEREBY DISCLAIMS ANY RESPONSIBILITY FOR IDENTIFYING, HANDLING OR MONITORING ASBESTOS. If a building owner suspects that an asbestos condition exists on or under the roof area in question, Material Manufacturer can recommend licensed laboratories and technicians that can identify, remove, dispose of, and monitor the project.

4.8 ASBESTOS LIMITATIONS

- A. The Owner has been informed, acknowledges and agrees that Material Manufacturer is not engaged in the business of identifying, abating, encapsulating or removing asbestos or asbestos containing materials from the work site and has not agreed to do so herein.
- B. IN CONSIDERATION OF THE PROVISION HEREOF, THE OWNER HEREBY AGREES TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE MATERIAL MANUFACTURER, ITS OWNERS, OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS, INCLUDING THE ENGINEER FROM AND AGAINST ANY AND ALL LIABILITIES, DAMAGES, LOSSES AND EXPENSES (INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES) ARISING OUT OF, OR RELATING TO, ANY CLAIMS, DEMANDS, OR CAUSES OF ACTION OF ANY KIND,, ATTRIBUTABLE TO, ARISING OUT OF, OR RELATING TO THE PRESENCE OF ASBESTOS OR ASBESTOS-CONTAINING MATERIALS ON OR AT THE WORK SITE AND/OR THE ABATEMENT, ENCAPSULATION AND/OR THE REMOVAL THEREOF.

4.9 MOLD LIMITATIONS

- A. The Garland Company makes no representation or warranty, express, implied, or otherwise, regarding mold, fungi, rust, corrosion or other bacteria or organism. Neither shall Garland have any duty to identify, nor accept any responsibility or liability for any claims associated with mold, fungi, rust, corrosion or other bacteria or organism related claims.

END OF SECTION