ROOF REPLACEMENT PROJECT WELL HOUSE 7 CONTRACT

Roof Replacement Project Well House 7 Storage Facility (the "Contract") is entered between the Village of Buffalo Grove (hereinafter the "Village" or "Owner"), an Illinois home-rule unit of government, and A-1 Roofing Company an [Illinois Company] (hereinafter the "Contractor") on this 29 day of September , 2022 (the "Effective Date"). The Village and the Contractor are hereinafter sometimes collectively referred to as the "Parties" and individually as a "Party".

RECITALS

WHEREAS, the Village has solicited bids for the Work (defined below), Contractor has submitted a bid for the Work and Village has selected Contractor for the Work based on their bid; and

WHEREAS, the Contractor wishes to enter into this Contract with the Village and the Village wishes to enter into this Contract with the Contractor for the Work;

NOW THEREFORE, for and in consideration of the mutual covenants and promises herein contained, the adequacy and sufficiency of which are hereby acknowledged by the Parties, it is agreed as follows:

ARTICLE I - WORK TO BE DONE BY THE CONTRACTOR

The Village does hereby hire and contract with the Contractor to provide all the labor, equipment, materials and/or services described more thoroughly on Contract **Exhibit A** (the "**Work**") which is incorporated into the Contract by this reference.

ARTICLE II - CONTRACT DOCUMENTS

The following exhibits are attached hereto and incorporated herein by this reference:

Contract Exhibit A – Description of the Work

Contract Exhibit B – Schedule of Prices

Contract Exhibit C – Performance Bond

Contract Exhibit D - Partial Lien Waiver

Contract Exhibit E – Final Lien Waiver

If any term or provision of this Contract shall conflict with any term or provision of the exhibits referenced above, the terms and provisions of the exhibit shall control.

ARTICLE III - CONTRACT AMOUNT

The Village agrees to pay the Contractor for the proper and timely performance of the Work in strict accordance with this Contract as detailed in **Contract Exhibit B** (the "Schedule of Prices") Unless explicitly provided otherwise in this Contract, the detailed sums shall be the full and exclusive compensation owed to the Contractor for the Work; and Contractor may not seek additional payments from the Village.

The Village of Buffalo Grove reserves the right to reject a proposed price increase and terminate the Contract.

ARTICLE IV - APPLICATION FOR PAYMENT

The Contractor shall be paid at most once a month and only after providing the Village the following:

- 1. An executed and notarized Contractor's Sworn Statement in a form similar to AIA G702 or AIA G703;
- 2. Either a partial or final lien waiver from every subcontractor, sub-subcontractor, or materialman in substantially the same form as attached here as **Contract Exhibit D** and **Contract Exhibit E**;
- 3. Certified payroll necessary for the Prevailing Wage Act; and

All payments under this Contract must be approved by the Village's Board at regularly scheduled meetings. The Village reserves the right to request any receipts, invoices, proof of payments as the Village, in its sole discretion, may deem necessary to justify the payment requested *prior* to paying the requested payment. The Contractor shall furnish with his final application for payment a Final Lien Waiver from itself and, if not already provided, from every subcontractor and materialman of the Work.

The Contractor acknowledges that the Village is a unit of local government and that all payments under the Contract are subject to the Local Government Prompt Payment Act, 50 ILCS 505 et seq. To that extent, the Village shall have forty-five calendar (45) days from receipt of a bill or invoice to pay the same before it is considered late under the Contract. Interest, if any, charged for any late payments will be subject to the interest rate caps specified in the Prompt Payment Act.

ARTICLE V – CONTRACT TIME

The Contractor shall fully, and not substantially, complete all the Work and the Work shall be accepted by the Director of Public Works, provided that acceptance by the Director of Public Works shall not be unreasonably delayed, on or before

1/9/2023.

If the Contractor shall fail to complete the work within the Contract Time which shall include any proper extension granted by the Village, the Contractor shall pay to the Village an amount equal to Seven Hundred Fifty dollars (\$750) per calendar day for each day past the Contract Time until final acceptance by the Village, as liquidated damages and not as a penalty.

Termination of Contract. The Contract may be terminated, in whole or in part, by either party if the other party substantially fails to fulfill its obligations under the Contract through no fault of the terminating party; or the Village may terminate the Contract, in whole or in part, for its convenience. However, no such termination may be affected unless the terminating party gives the other party: (1) not less than thirty (30) calendar days written notice by certified mail of intent to terminate, and (2) an opportunity for a meeting with the terminating party before termination.

ARTICLE VI – PERFORMANCE BOND

The Contractor shall provide the Village with a performance bond in substantially the same form as on **Contract Exhibit C** (the "**Performance Bond**") prior to Contractor beginning any Work and within 10 calendar days of the Notice of Award sent to the Contractor.

ARTICLE VII - ACCIDENT PREVENTION

The Contractor shall exercise every precaution at all times to protect itself, the property of the Village and the property of others. The safety provision of all applicable laws and ordinances shall be strictly observed by the Contractor at all times. Any practice deemed hazardous or dangerous by the Director of Public Works or his authorized representatives shall be immediately discontinued by the Contractor upon receipt of instructions from the Director of Public Works or his authorized representatives. To the fullest extent permitted by law, the Contractor shall be solely responsible for all safety-related matters.

ARTICLE VIII – INDEMNIFICATION

To the fullest extent permitted by law, the Contractor agrees to defend, pay on behalf of, indemnify, and hold harmless the Village, its elected and appointed officials, agents, employees and volunteers and others working on behalf of the Village against any and all claims, demands, suits or loss, including all costs connected therewith, and for any damages which may be asserted, claimed or recovered against or from the Village, its elected and appointed officials, agents, employees and volunteers and others working on behalf of the Village, by reason of personal injury, including bodily injury and death, and/or property damage, whether damage to property of the Village or of a third party, including loss of use thereof, which arises out of or is in any way connected or associated with the Contract and the Work.

<u>ARTICLE IX – INSURANCE</u>

Contractor shall procure and maintain, for the duration of the Contract and any maintenance period, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors.

A. Minimum Scope of Insurance: Coverage shall be at least as broad as:

Insurance Services Office Commercial General Liability occurrence form CG 0001 with the Village of Buffalo Grove named as additional insured on a primary and non-contributory basis. This primary, non-contributory additional insured coverage shall be confirmed through the following required policy endorsements: ISO Additional Insured Endorsement CG 20 10 or CG 20 26 and CG 20 01 04 13

- 1. Insurance Services Office Commercial General Liability occurrence form CG 0001 with the Village named as additional insured, on a form at least as broad as the ISO Additional Insured Endorsement CG 2010 and CG 2026
- 2. Insurance Service Office Business Auto Liability coverage form number CA 0001, Symbol 01 "Any Auto."
- 3. Workers' Compensation as required by the Labor Code of the State of Illinois and Employers' Liability insurance.
- 4. Owners and Contractors Protective Liability (OCP) policy with the Village of Buffalo Grove as insured.
- 5. Builder Risk Property Coverage with Village as loss payee

B. Minimum Limits of Insurance: Contractor shall maintain limits no less than:

- 1. Commercial General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. The general aggregate shall be twice the required occurrence limit. Minimum General Aggregate shall be no less than \$2,000,000 or a project/contract specific aggregate of \$1,000,000.
- 2. Business Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage.
- 3. Workers' Compensation and Employers' Liability: Workers' Compensation coverage with statutory limits and Employers' Liability limits of \$500,000 per accident.
- 4. Owners and Contractors Protective Liability (OCP): \$1,000,000 combined single limit per occurrence for bodily injury and property damage.
- 5. Builder's Risk: Shall insure against "All Risk" of physical damage, including water damage (flood and hydrostatic pressure not excluded), on a completed replacement cost basis.

C. Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the Village. At the option of the Village, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as it respects the Village, its officials, agents, employees and volunteers; or the Contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration and defense expenses.

D. Other Insurance Provisions

The policies are to contain, or be endorsed to contain, the following provisions:

- 1. General Liability and Automobile Liability Coverages:
 - a. The Village, its officials, agents, employees and volunteers are to be covered as insureds as respects: liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, leased or used by the Contractor; or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Village, its officials, agents, employees and volunteers.
- 2. The Contractor's insurance coverage shall be primary and non-contributory as respects the Village, its officials, agents, employees and volunteers. Any insurance or self-insurance maintained by the Village, its officials, agents, employees and volunteers shall be excess of Contractor's insurance and shall not contribute with it.
- 3. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Village, its officials, agents, employees and volunteers.
- 4. The Contractor's insurance shall contain a Severability of Interests/Cross Liability clause or language stating that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- 5. If any commercial general liability insurance is being provided under an excess or umbrella liability policy that does not "follow form," then the Contractor shall be required to name the Village, its officials, employees, agents and volunteers as additional insureds
- 6. All general liability coverages shall be provided on an occurrence policy form. Claims-made general liability policies will not be accepted.
- 7. The contractor and all subcontractors hereby agree to waive any limitation as to the amount of contribution recoverable against them by the Village. This specifically includes any limitation imposed by any state statute, regulation, or case law including any Workers' Compensation Act provision that applies a limitation to the amount recoverable in contribution such as Kotecki v. Cyclops Welding.

E. All Coverages:

- 1. No Waiver. Under no circumstances shall the Village be deemed to have waived any of the insurance requirements of this Contract by any act or omission, including, but not limited to:
 - a. Allowing work by Contractor or any subcontractor to start before receipt of Certificates of Insurance and Additional Insured Endorsements.
 - b. Failure to examine, or to demand correction of any deficiency, of any Certificate of Insurance and Additional Insured Endorsement received.
- 2. Each insurance policy required shall have the Village expressly endorsed onto the policy as a Cancellation Notice Recipient. Should any of the policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

F. Acceptability of Insurers

Insurance is to be placed with insurers with a Best's rating of no less than A-, VII and licensed to do business in the State of Illinois.

G. Verification of Coverage

Contractor shall furnish the Village with certificates of insurance naming the Village, its officials, agents, employees, and volunteers as additional insured's and with original endorsements, affecting coverage required herein. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be received and approved by the Village before any work commences. The Village reserves the right to request full certified copies of the insurance policies and endorsements.

The Certificate of Insurance shall state the Village of Buffalo Grove has been endorsed as an "additional insured" by the Vendor's insurance carrier. Specifically, this Certificate must include the following language: "The Village of Buffalo Grove, and it's respective elected and appointed officials, employees, agents, consultants, attorneys and representatives, are, and have been endorsed, as an additional insured under the above reference policy number______on a primary and non-contributory basis for general liability and automobile liability coverage for the duration of the agreement term."

H. Subcontractors

Contractor shall include all subcontractors as insured's under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverage's for subcontractors shall be subject to all of the requirements stated herein.

I. Assumption of Liability

The contractor assumes liability for all injury to or death of any person or persons including employees of the contractor, any subcontractor, any supplier or any other person and assumes liability for all damage to property sustained by any person or persons occasioned by or in any way arising out of any work performed pursuant to the Contract.

J. Workers' Compensation and Employers' Liability Coverage

The insurer shall agree to waive all rights of subrogation against the Village of Buffalo Grove, its officials, employees, agents and volunteers for losses arising from work performed by Contractor for the municipality.

K. Failure to Comply

In the event the Contractor fails to obtain or maintain any insurance coverage's required under this contract, The Village may purchase such insurance coverage's and charge the expense thereof to the Contractor.

ARTICLE X – CERTIFICATE OF AUTHORITY AND SURETY CERTIFICATE

The Contractor shall furnish the Village with a current Certificate of Authority or Surety Certificate issued by the Illinois Department of Insurance for the bonding company and insurance company they are using. In lieu of a Certificate of Authority of Surety Certificate, the Contractor may provide certificate of good standing from the Illinois Department of Insurance's website.

<u>ARTICLE XI – COPYRIGHTS AND LICENSES</u>

The Contractor agrees that all documents of any kind whatsoever, and in whatever medium expressed, prepared by the Contractor and the Contractor's consultants in connection with the Work (collectively, the "Documents") or otherwise pursuant to this Contract and all rights therein (including trademarks, trade names, rights or use, copyrights and/or other proprietary rights) shall be and remain the sole property of the Village (regardless of whether the Village or the Contractor terminates this Contract for any reason whatsoever). The Contractor hereby agrees that the Documents are or shall be deemed to be "Works for Hire" within the meaning of Section 101 of the Copyright Act, and the Contractor hereby assigns to the Village all right, title and interest therein. Notwithstanding, the Contractor shall indemnify and hold harmless the Village, its appointed and elected officials, employees, agents and volunteers from and against all claims, damages, losses, and expenses (including attorneys' fees and court and arbitration costs) arising out of any infringement of patent rights or copyrights incident to the Documents and the Work.

ARTICLE XII – NOTICE

All notices, demands, requests, consents, approvals and other communications required or permitted to be given hereunder (a "**Notice**") shall be in writing and shall be deemed effective three (3) business days after mailing if mailed by certified mail with return receipt requested and immediately if served personally, and shall be addressed to the following:

IF TO THE VILLAGE: Village of Buffalo Grove

51 Raupp Blvd

Buffalo Grove, IL 60089

ATTN: Director of Public Works

IF TO THE CONTRACTOR: A-1 Roofing Company

1425 Chase Ave

Elk Grove Village, IL 60007 ATTN: Brad Rabin

BradRabin@A1Roofing.com

ARTICLE XIII - CHANGE ORDERS

If the Village requests any change to the Work the Village shall do so by delivering Notice of the same to the Contractor and the change requested by the Village shall be effective upon receipt of the Notice by the Contractor. The Contractor may propose a change to the Work by delivering Notice of the proposed change along with a description of the changes full effect on the Work to the Village; provided, such requested change shall not be deemed accepted until the Village has delivered to the Contractor Notice of the same. Prior to approving a proposed change to the Work by the Contractor, the Village may request such additional documentation as it deems necessary to investigate the proposed change. The Contractor shall be responsible for informing all its employees and subcontractors of any changes to the Work, whether such change is requested by the Contractor or the Village.

ARTICLE XIV – NOTICE OF STARTING WORK

The Contractor shall provide Notice to the Village prior to the Contractor, or its employees or subcontractors, starting the Work or any phase of the Work.

ARTICLE XV – SEQUENCE OF THE WORK

The Director of Public Works shall have the power to direct the order and sequence of the Work. On any major portion of the Work, all accessories shall be set coincident with the main construction. Payment for major portions of the Work may be withheld until proper completion of accessories.

ARTICLE XVI – SUPERVISION

The Director of Public Works shall have override power to superintend and direct the Work, and the Contractor shall perform all of the Work herein specified to the satisfaction, approval and acceptance of the Director of Public Works. The Contractor shall have at all times a competent foreman or superintendent at the Work's site, who shall have full authority to act for the Contractor and to receive and execute orders from the Director of Public Works, and any instructions given to such superintendent or person, executing work for the Contractor, shall be binding on the Contractor as though it was personally given to the Contractor.

ARTICLE XVII - STANDARD OF WORK AND WORKERS

The Contractor shall employ competent staff and shall discharge, at the request of the Director of Public Works, any incompetent, unfaithful, abusive or disorderly workers in its employ. Where experts or skilled workers must be employed, only expert or skilled workers shall be employed.

ARTICLE XVIII - CONDITIONS OF THE WORK SITE

The Contractor shall provide and maintain such sanitary accommodations for the use of its employees as may be necessary to comply with the State and local Board of Health requirements. Public nuisances will not be permitted. The Contractor shall leave said Work's site(s) in the best possible condition to the complete satisfaction of the Director of Public Works. No vehicles of any kind shall be placed, parked, or operated upon any grass areas at any time except as authorized by the Director of Public Works or his authorized representative. Further, the Contractor shall exercise every precaution for the protection of all persons and all property. The safety provisions of all-applicable laws and ordinances shall be strictly observed. Any practice hazardous in the opinion of the Director of Public Works or his authorized representatives shall be immediately discontinued by the Contractor upon his receipt of instructions from the Director of Public Works or his authorized representative. To the maximum extent permitted by law, the Contractor shall be responsible for all safety-related matters.

ARTICLE XIX – WARRANTY PERIOD

All material and workmanship shall be warranted and guaranteed according to manufacturer's recommendation after inspection and approval by the Director of Public Works or his designated representative. All work performed by the Contractor shall be warranted by the Contractor following completion and final acceptance of the Work for a period of twenty-four (24) months from the date of final, and not substantial, completion.

ARTICLE XX – ACCIDENTS

In the event of any accident of any kind that involves the general public or property of the Village or a third party, the Contractor shall immediately notify the Director of Public Works by phone as well as provide Notice of the same. The Notice shall include a full accounting of all details of the accident. The Contractor shall furnish the Village with copies of all reports of such accidents at the same time that the reports are forwarded to any other interested parties.

ARTICLE XXI - NO ASSIGNMENT

If the Contractor sublets or assigns any part of the Work then the Contractor shall not under any circumstances be relieved of its liabilities hereunder. All transactions of the Village shall be with the Contractor. Subcontractors shall be recognized only in the capacity of employees or workmen and shall be subject to the same requirements as to character and competence. The Contractor shall not assign, transfer, convey, sell or otherwise dispose of the whole or any part of this Contract to any person, firm or corporation without written consent of the Director of Public Works or his authorized representative.

ARTICLE XXII - DEFAULT

The following shall constitute a default an "Event of Default" by the Contractor under this Contract:

- A. If the Contractor shall fail to strictly observe or perform one or more of the terms, conditions, covenants and agreements of this Contract;
- B. If there shall be placed on any property owned by the Village any mechanics', materialmens' or suppliers' lien;
- C. If there shall be instituted any proceeding against the Contractor seeking liquidation, dissolution or similar relief and the same shall not be dismissed within forty-five (45) calendar days;
- D. If there shall be appointed any trustee, receiver or liquidator of the Contractor and such appointment shall not have been vacated within forty-five (45) calendar days; and
- E. If the Contractor fails to maintain or obtain any and all permits, licenses and the like, if any, required by the Village, State or Federal governments for the Work.

Upon any Event of Default the Village shall have the option of (i) terminating the Contract; (ii) pursuing any remedy available to it at law or in equity; or (iii) pursuing both simultaneously. In addition, upon an Event of Default, the Village may withhold payments due to the Contractor until it has hired a replacement of the Contractor and deducted all costs of hiring a replacement.

ARTICLE XXIII – DELAYS

The Contractor shall not be liable in damages for delays in performance when such delay is the result of fire, flood, strike, acts of God, or by any other circumstances which are beyond the control of the Contractor; provided, however, under such circumstances the Village may, at its option, cancel the Contract.

ARTICLE XXIV - COMPLIANCE WITH LAWS

The Contractor shall comply with all applicable laws, regulations and rules promulgated by any federal, state, local, or other governmental authority or regulatory body pertaining to all aspects of the Work, now in effect, or which may become in effect during the performance of the Work. The scope of the laws, regulations, and rules referred to in this paragraph includes, but is in no way limited to, the Illinois Human Rights Act, Illinois Equal Pay Act of 2003, Occupational Safety & Health Act along with the standards and regulations promulgated pursuant thereto (including but not limited to those safety requirements involving work on elevated platforms), all forms of traffic regulations, public utility, Interstate and Intrastate Commerce Commission regulations, Workers' Compensation Laws, Public Construction Bond Act, Public Works Preference Act, Employment of Illinois Workers

on Public Works Act, USA Security Act, federal Social Security Act (and any of its titles), and any other law, rule or regulation of the Illinois Department of Labor, Department of Transportation, Illinois Environmental Protection Act, Illinois Department of Natural Resources, Illinois Department of Human Rights, Human Rights Commission, EEOC, and the Village of Buffalo Grove. Notwithstanding the following, the Contractor shall particularly note that:

- **A. NO DISCRIMINATION** The Contractor shall comply with the provisions of the Illinois Public Works Employment Discrimination Act and the Illinois Human Rights Act/Equal Opportunity Clause which, pursuant to Illinois law, are deemed to be part of this Contract.
- B. FREEDOM OF INFORMATION The Contractor agrees to furnish all documentation related to the Contract, the Work and any documentation related to the Village required under an Illinois Freedom of Information Act (ILCS 140/1 et. seq.) ("FOIA") request within five (5) calendar days after the Village issues Notice of such request to the Contractor. The Contractor agrees to defend, indemnify and hold harmless the Village, and agrees to pay all reasonable costs connected therewith (including, but not limited to attorney's and witness fees, filing fees and any other expenses) for the Village to defend any and all causes, actions, causes of action, disputes, prosecutions, or conflicts arising from Contractor's actual or alleged violation of FOIA or the Contractor's failure to furnish all documentation related to a FOIA request within five (5) calendar days after Notice from the Village for the same. Furthermore, should the Contractor request that the Village utilize a lawful exemption under FOIA in relation to any FOIA request thereby denying that request, Contractor agrees to pay all costs connected therewith (such as attorneys' and witness fees, filing fees and any other expenses) to defend the denial of the request. This defense shall include, but not be limited to, any challenged or appealed denials of FOIA requests to either the Illinois Attorney General or a court of competent jurisdiction.
- C. ILLINOIS WORKERS ON PUBLIC WORKS ACT To the extent applicable, the Contractor shall comply with the Illinois Workers on Public Works Act, 30 ILCS 570/1 et seq., and shall provide to the Village any supporting documentation necessary to show such compliance.
- **D. NOT A BLOCKED PERSON** The Contractor affirms and covenants that neither the Contractor nor any individual employed by the Contractor for this Work or under this Contract is a person forbidden from doing business with a unit of local government under Executive Order No. 13224 (Sept 23, 2001), 66 Fed.Reg. 49,079 (Sept 23, 2001) or is a person registered on the Specially Designated Nationals and Blocked Persons List. The Contractor shall indemnify the Village from all costs associated with failure to comply with this paragraph.
- E. SUBSTANCE ABUSE PREVENTION ON PUBLIC WORKS ACT The Contractor knows, understands and acknowledges its obligations under the Substance Abuse Prevention on Public Works Act (820 ILCS 265/1 et seq.), and shall comply and require all subcontractors and lower tiered contractors to comply with the requirements and provisions thereof.
- **F. PREVAILING WAGE ACT** The Village is an Illinois unit of local government and the Work hereunder is subject to the Illinois Prevailing Wage Act, 820 ILCS 130/0.01, etseq.

Pursuant to PA 100-1177 the Illinois Department of Labor (IDOL) has activated an electronic database (Payroll Portal) capable of accepting and retaining certified payrolls submitted under the State of Illinois Prevailing Wage Act (820 ILCS/130/1). All contractors and subcontractors completing work for the Village of Buffalo Grove pursuant to the Act must submit all certified payroll through the IDOL Payroll Portal.

Consequently, the Contractor and each subcontractor shall submit with their application for payment(s) the email certification received from their IDOL Payroll Portal submittal with each of their pay requests. Any delay in processing the payments due to a lack of aforementioned email certification shall not be an event of default by the Village and shall not excuse any delay by the Contractor who shall proceed with the Work as if no delay in payment has occurred. The Contractor and Village shall agree to take any further steps not outlined above to ensure compliance with the Prevailing Wage Act. Upon two business days' Notice, the Contractor and each subcontractor shall make available to the Village their records to confirm compliance with the Prevailing Wage

Act. Finally, to ensure compliance with Prevailing Wage Act, the Contractor and each subcontractor shall keep for a period of not less than 5 years after the Work has been completed records of all laborers, mechanics, and other workers employed by them for the Work; the records shall include each worker's name, address, telephone number, classification or classifications, the hourly wages paid in each period, the number of hours worked each day, the starting and ending times of work each day and, when available, last four digits of the social security number.

Current rates can be located on the Illinois Department of Labor website. https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx

ARTICLE XXV – NO WAIVER OF RIGHTS

A waiver by the Village of any Event of Default or any term of provision of this Contract shall not be a waiver of the same Event of Default, another Event of Default or any other term or provision of this Contract.

<u>ARTICLE XXVI – CONTROLLING LAW AND VENUE</u>

This Contract is entered into in the State of Illinois, for work to be performed in the State of Illinois and shall be governed by and construed in accordance with the laws of the State of Illinois. Any legal matters or dispute shall be resolved in the Circuit Court of Cook County and the Parties hereby submit to the jurisdiction of such Circuit Court. This Contract shall be construed without regard to any presumption or other rule requiring construction against the Party causing the Contract to be drafted.

ARTICLE XXVII – MISCELLANEOUS

- **A. AMENDMENT** This Contract may be amended only in writing executed by both Parties.
- **B.** NO RECORDING This Contract, or a memorandum thereof, may not be recorded in any form by either Party. If either Party records this Contract, or a memorandum thereof, they shall immediately file a release of the same.
- C. COUNTERPARTS This Contract may be executed by the Parties in any any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute an original instrument.
- **D. SECTION HEADINGS** The headings in the Contract are intended for convenience only and shall not be taken into consideration in any construction or interpretation of the Contract.
- **E. NO THIRD-PARTY BENEFICIARIES** This Contract does not confer any rights or benefits on any third party.
- **F. BINDING EFFECT** This Contract shall be binding and inure to the benefit of the Parties hereto, their respective legal representatives, heirs and successors-in-interest.
- **G. ENTIRE AGREEMENT** This Contract supersedes all prior agreements and understandings and constitutes the entire understanding between the Parties relating to the subject matter hereof.
- **H. SEVERABILITY** If any term, condition or provision of the Contract is adjudicated invalid or unenforceable, the remainder of the Contract shall not be affected and shall remain in full force and effect, to the fullest extent permitted by law.

- I. TORT IMMUNITY DEFENSES Nothing contained in this Contract is intended to constitute nor shall constitute a waiver of the rights, defenses, and immunities provided or available to the Village under the Local Governmental and Governmental Employees Tort Immunity Act, 745 ILCS 10 et seq.
- J. CALENDAR DAYS AND TIME. Unless otherwise provided in this Contract, any reference in this Contract to "day" or "days" shall mean calendar days and not business days. If the date for giving of any notice required to be given, or the performance of any obligation, under this Contract falls on a Saturday, Sunday or federal holiday, then the notice or obligation may be given or performed on the next business day after that Saturday, Sunday or federal holiday.
- **K. COUNTERPARTS** This Contract may be executed by the Parties in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute an original instrument.

IN WITNESS WHEREOF, the Parties hereto have caused the Contract to be executed as of the Effective Date.

Village of Buffalo Grove, an Illinois home-rule unit of government	Company [An Illinois company]
By: // Chy.	By: Hethel Robin
Name: Dane Bragg	Name: Mitchell Rabin
Title: Village Manager	Title: President

CONTRACT EXHIBIT C – PERFORMANCE BOND FORM OF PERFORMANCE BOND

Bond Number:	<u></u>
KNOW ALL MEN BY THESE PR	ESENTS, That (the "Principal") and
home-rule unit of government (the "V	y"), are held and firmly bound unto the Village of Buffalo Grove, an Illinois Village"), the full and just sum ofDollars NITED STATES OF AMERICA as herein provided.
successors, assigns, executors, heirs a of the Work as defined in that particul Principal and the Village dated da	IGATION is such that the Principal and Surety agree to bind themselves, their and administrators, jointly and severally, for the full and faithful performance lar Roof Replacement Project Well House 7 Storage Facility contract between by of, 20, (hereinafter referred to as the "Contract"), a copy of y reference as though fully set forth herein.
respects keep and perform all the un shall pay all sums of money due or furnished for the Work provided in sa materials which may be apparent or	HIS OBLIGATION ARE SUCH that if the said Principal (i) shall in all dertakings, covenants, terms, conditions and agreements of the Contract; (ii) to become due, for any labor, materials, apparatus, fixtures or equipment aid Contract; and (iii) shall remove and replace any defects in workmanship or may develop within the ARTICLE XIX – WARRANTY PERIOD of the shall and void; otherwise it shall remain in full force and effect.
or addition to the terms of the Contra	ed, hereby stipulates and agrees that no change, extension of time, alteration ct or the Work thereunder shall in any way affect its obligation on this Bond, ny such change, extension of time, alteration or addition to the terms of the
IN WITNESS WHEREOF, we have	e hereunto set our hands and sea day of, 20
SURETY	PRINCIPAL
By: Name:	Name:
Title:	Title:
ATTEST	ATTEST
By:	By:

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute Bond.

IMPORTANT: Surety companies executing Bonds must appear on the Treasury Departments most current list (Circular 570 as amended) and be authorized to transact business in the state where the Work is located.

CONTRACT EXHIBIT D – PARTIAL LIEN WAIVER

PARTIAL LIEN WAIVER

STATE OF ILLINOIS					
COUNTY OF					
TO WHOM IT MAY CONCERN:					
WHEREAS the undersigned has been employed	l by				
to furnish for the premises known as					
for the premises known as					
of which					is the owner.
THE undersigned, for and in consideration of_					
(\$					
) Dollars, and other good and valuable consider any and all lien or claim of, or right to, lien, u and on said above-described premises, and t furnished, and on the moneys, finds or other co material, fixtures, apparatus or machinery, INCLUDING EXTRAS.* DATE	nder the statutes of the improvements the considerations due or furnished to this	the State of Illinoi bereon, and on the to become due fro date by the und	s, relating to a se material, fi m the owner, ersigned for	nechanics' liens, etures, apparatu on account of all the above-desc	, with respect to is or machinery l labor, services,
ADDRESSSIGNATURE AND TITLE					
*EXTRAS INCLUDE BUT ARE NOT LIMITED TO CHANGE	GE ORDERS, BOTH ORA	L AND WRITTEN, TO	THE CONTRACT		
	CONTRACTOR'S	AFFIDAVIT			
STATE OF ILLINOIS	CONTRACTORS	ATIDAVII			
COUNTY OF					
TO WHOM IT MAY CONCERN:					
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AND SAYS THAT HE OR SHE IS (POSITION	v .			obi swoid,	OF
(COMPANY NAME)				HO IS THE	
CONTRACTOR FURNISHING	COMPANY NAME) WHO IS THE ONTRACTOR FURNISHING WORK ON THE BUILDING				
LOCATED AT				oldr old line	DULLDLIO
OWNED BY					
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\$ prior to this payment. Th					
there is no claim either legal or equitable to defe					
parties who have furnished or delivered materia					
specific portions of said work or for material en					
that the items mentioned include all labor and m					
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TOTAL LABOR AND MATERIAL INCLUDING EXTRAS*	TO COMPLETE.				
That there are no other contracts for said work out or other work of any kind done or to be done upon					r material, labor
DATE	_ SIGNATU		and accord states	-	
SUBSCRIBED AND SWORN TO BEFORE M	E THIS	DAY OF			
*EXTRAS INCLUDE BUT ARE NOT LIMITED TO					
ORDERS, BOTH ORAL AND WRITTEN, TO THE C	ONTRACT.		NO	TARY PUBLIC	

CONTRACT EXHIBIT E – FINAL LIEN WAIVER

FINAL WAIVER OF LIEN

STATE OF ILLINOIS

COUNTY OF					
TO WHOM IT MAY CONCERN: WHEREAS the undersigned has been employ to furnish for the premises known as	ed by				
for the premises known as of which					is the owner.
THE undersigned, for and in consider	ation of				is the owner.
(\$	ed and valuable consider or claim of, or right dabove-described prer don the moneys, fund- ial, fixtures, apparatus gned for the above-des	nises, and the im s or other consid or machinery, h cribed premises,	provements the erations due or eretofore furnis , INCLUDING	ereon, and on the to become due: hed, or which n EXTRAS.*	e material, from the
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(COMPANY NAME)					/HO IS THE
CONTRACTOR FURNISHING LOCATED AT OWNED BY			<i>\\</i>	ORK ON THE	BUILDING
That the total amount of the contract including prior to this payment. There is no claim either legal or equitable to describe the contract including the contr	at all waivers are true	, correct and gen	uine and delive	red uncondition	ally and that
of all parties who have furnished or delivered contracts for specific portions of said work become due to each, and that the items ment plans and specifications:	or for material enteri	ng into the con	struction thereo	of and the amou	ınt due or to
plans and specifications.					
NAMES AND ADDRESSES	WHAT FOR	CONTRACT PRICE INCLDG	AMOUNT PAID	THIS PAYMENT	BALANCE DUE
TOTAL LABOR AND MATERIAL INCLUDE	NG EXTRAS*				
That there are no other contracts for said work material, labor or other work of any kind done					
DATE	SIGNATU	RE:			
SUBSCRIBED AND SWORN TO BEFORE	·	DAY OF			
*EXTRAS INCLUDE BUT ARE NOT LIMITED TO ORDERS, BOTH ORAL AND WRITTEN, TO THE		_	N	OTARY PUBLI	C

CONTRACT EXHIBIT A – DESCRIPTION OF THE WORK

[Description of the Work]



Industrial Roofing Services, Inc. 13000 West Silver Spring Drive Butler, Wisconsin 53007

Butler, Wisconsin 53007 Phone: (262) 432-0500 Fax: (262) 432-0504 www.irsroof.com

TECHNICAL SPECIFICATIONS

for

ROOF REPLACEMENT PROJECT WATER WELL 7 STORAGE FACILITY

IRS JOB# 17925

Located at

400 LASALLE LANE

BUFFALO GROVE, ILLINOIS

Prepared for

Village of Buffalo Grove 50 Raupp Boulevard Buffalo Grove, IL 60089



00 01 10

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00 21 13

SPECIAL INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 EXAMINATION OF CONTRACT DOCUMENTS AND SITE CONDITIONS

- A. Each Bidder is responsible for the following:
 - 1. Careful and diligent review by a competent person of each part of the Contract Documents, including the Divisions of the Specifications and parts of the Drawings that are not directly applicable to the Work on which the Bidder is submitting its bid. By submitting its bid, each Bidder represents and agrees, based upon its careful and diligent review of the Contract Documents, that it is not aware of any conflicts, inconsistencies, errors or omissions in the Contract Documents for which it has not notified the Design Professional in writing at least 7 days prior to the bid opening. If there are any such conflicts, inconsistencies, errors or omissions in the Contract Documents, the Bidder (i) will provide the labor, equipment or materials of the better quality or greater quantity of Work; and/or (ii) will comply with the more stringent requirements. The Bidder will not be entitled to any additional compensation for any conflicts, inconsistencies, errors or omissions that would have been discovered by such careful and diligent review, unless it has given prior written notice to Design Professional
 - 2. Careful and diligent inspection and examination by a competent person of the entire site and the surrounding area, including all parts of the site applicable to the Work for which it is submitting its bid, including location, condition and layout of the site and the location of utilities, and carefully correlate the results of the inspection with the requirements of the Contract Documents. The Bidder's bid must include all costs attributable to site and surrounding area conditions that would have been discovered by such careful and diligent inspection and examination of the site and the surrounding area, and the Bidder will not be entitled to any Change Order, additional compensation, or additional time on account of such conditions.
 - 3. Be familiar with the existing conditions in the material and labor markets, as well as the conditions related to the Work. The fact that a bid is submitted will be construed by the Owner as an agreement by the Bidder to carry out the improvements in full conformance with the Specifications and other Contract Documents, notwithstanding the existing conditions.
 - 4. Attend the pre-bid meeting; if applicable. Failure of a Bidder to attend the pre-bid meeting, if such failure results in the Bidder not fully being familiar with the existing conditions and Project Requirements, shall not be considered a basis for additional compensation to the successful Bidder for the Work.

1.02 EXAMINATION

- A. Each bidder shall visit and carefully examine the proposed work and fully acquaint themselves with conditions relating to construction and labor so that they may fully understand the facilities, difficulties and restrictions attending the execution of the work included under the Contract.
- B. Bidders shall thoroughly examine and be familiar with the drawings, specifications and other contract documents.
- C. Should a bidder find discrepancies in or omissions from the drawings or documents, or should he be in doubt as to their meaning, he shall at once notify the Consultant, at least five (5) days before bids are due, who will send written instructions in the form of an addendum to all bidders. Neither the Owner nor the Consultant will be responsible for any oral instructions.
- D. It is the responsibility of each bidder to become familiar with the site and documents; no extras will be approved for conditions that could be reasonably determined at the time of bidding.



1.03 SPECIFICATION TECHNIQUES

A. Format:

- 1. These specifications are written in imperative and streamlined form and are directed to the Contractor unless specifically noted otherwise.
- 2. The words "shall be" shall be inferred where a colon (:) is used within phrases or sentences.

B. Definitions:

- 1. The word "furnish" shall mean to purchase, supply, and deliver to the project site, elevation, and location, those materials and/or services which are necessary for the completion of the Work.
- 2. The word "install" shall mean to place and integrate materials into position for their designed use.
- 3. The word "provide" shall mean furnish and install.
- 4. The word "manufacturer" shall mean the manufacturer or private-labeler of the material, which are to be integrated into the Work.

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION



01 11 00

SUMMARY OF WORK

PART 1 - GENERAL

1.01 PROJECT OVERVIEW

- A. The Work consists of roof replacement at Water Well 7 Storage Facility in Buffalo Grove, Wisconsin for Village of Buffalo Grove, using the asphalt built-up roof system specified below.
- B. The suspected construction of the existing roofing systems is as follows:
 - 1. A structural concrete roof deck; 2-ply vapor barrier; tapered asphaltic fill (2"-5"); and the existing asphalt built-up roof membrane.
 - 2. This information is provided to bidding Contractors as a courtesy and shall be utilized at the discretion of individual contractors. It is not guaranteed, nor does it relieve bidders of their responsibility to become familiar with existing conditions prior to bidding.

C. The Work includes:

- 1. Replacement of sheet metal components, as shown or required by the Construction Drawings, including counter flashing, slip flashing, and penetration flashings.
- 2. Replacement of four (4) existing skylights, including curb replacement and installation of separate fall protection screening. (skylight products specified in Part 2 below)
 - a. Contractor shall coordinate skylight replacement with the owner, prior to disturbing the interior spaces, and barricade and protect the interior spaces below the skylight opening as needed to ensure the safety of building occupants and protect interior surfaces from falling debris.
 - b. Contractor shall remove the existing skylight and curb, and install the new curb and skylight, specified below, onto the existing deck opening. Install per the manufacturer's written installation instructions.
- 3. Installation of preformed silicone tape across all joints between stone coping sections on all parapet walls. At each joint:
 - Remove existing tape and/or accumulations of old sealant on either side of the ioint.
 - b. Clean the stone surfaces and then install 3" wide Dow Corning 123 silicone tape across each joint.
 - Only install on the top horizontal surface of the coping and down the inside face of the coping. Do not disturb the outside face of the coping on the outside of the parapet wall.
 - 2) Use Dow Corning 756 Silicone Sealant
 - 3) Install per manufacturer's written instructions.
- 4. Asbestos Containing Roof Materials (ACRM's) are present within the existing roof membrane and flashings. Removal of these components must be done by Contractor's employees certified to remove/handle regulated materials. Contractor shall be responsible for following all applicable regulations when handling regulated materials.

PART 2 - PRODUCTS

2.01 SYSTEM COMPONENTS

- A. Insulation:
 - 1. Polyisocyanurate insulation (tapered)
 - 2. Perlite or wood-fiber cover board.
 - 3. Type III Steep asphalt (insulation adhesive).



- B. Four-ply built-up and gravel roof membrane:
 - 1. Type IV fiberglass roofing felts.
 - 2. Type III Steep asphalt (interply adhesive and flood coat).
 - 3. Clean, new roofing gravel (surfacing).
- C. Roof flashings:
 - 1. Type IV fiberglass felt (base flashing).
 - 2. 4mm, 250 gram/m² polyester reinforced, granule-surfaced SBS modified bitumen membrane (finish flashing).
 - Type III Steep asphalt (flashing adhesive).
 - 4. Fibrated and non-fibrated aluminum roof coating (flashing surfacing).
- D. 24 gauge prefinished galvanized and 24 gauge galvanized sheet metal.
- E. Extruded aluminum termination bar with caulking cup.
- F. Miscellaneous fasteners and sealants.
- G. Dow Corning 123 silicone tape and Dow Corning 756 Silicone Sealant (for coping joints)
- H. Miscellaneous sealants and tape caulk.
- I. Skylights
 - Wasco (by VELUX) Traditional Double-Dome, Deck Mount (Wasco Model CWD2) (Or Pre-Approved Equal)
 - a. Sized to fit existing deck opening.
 - b. Mill finish retainer
 - c. 16" curb height
 - d. Acrylic double dome
 - 1) Outer dome: Clear
 - 2) Inner dome: White
 - e. Include separate OSHA approved fall protection screen (Wasco Model CAEW)

2.02 COMPONENTS SUPPLIED BY OWNER

A. None.

PART 3 - EXECUTION

3.01 WORK PERFORMED BY CONTRACTOR

- A. Remove existing roof membrane, insulation, tapered asphaltic fill, flashings, and perimeter metal down to the existing roof deck. Note: [Conduit is suspected to be present on the deck surface].
- B. Replace skylights and curbs.
- C. Clean the exposed deck of all debris.
- D. At the roof drains, solidly mop the specified tapered insulation to the deck, in hot asphalt, to create an 8'-0" square sump. Install the remainder of the specified insulation system, with all layers set in a continuous and uniform mopping of hot asphalt. (see tapered insulation drawing)
- E. Solidly mop the specified cover board insulation to the completed base courses of insulation in a continuous and uniform mopping of hot asphalt.
- F. Install the four-ply asphalt built-up roof membrane to the completed cover board.



- G. Install the specified base flashings to all perimeters and projections in hot asphalt; hot air weld laps of finish flashing membrane. Coat completed roof flashings with the specified first coat of aluminum roof coating.
- H. After review and approval by IRS, flood coat and gravel the entire roof system. Coat roof flashings with the specified second coat of aluminum roof coating.
- I. All perimeters and projections are to be constructed and flashed in strict accordance with the Construction Drawings provided.
- J. All perimeters and projections are to be constructed and flashed in strict accordance with the Construction Drawings provided.

3.02 INCLUSIONS

A. The Contractor shall include, in his bid, any and all costs incurred in complying with the intent of the Construction Drawings.

END OF SECTION



01 25 00

APPLICATIONS FOR PAYMENT

PART 1 - GENERAL

1.01 DESCRIPTION

A. This section describes the procedures and submittal requirements regarding Unit Pricing, Change Orders, and Application for Payment requests to the Owner.

1.02 PROGRESS PAYMENTS

A. Unit Pricing:

- 1. The Unit Pricing submitted by the Contractor shall be considered fixed and inclusive of its purchase, installation, overhead expenses and profit.
- 2. Units of measurement shall be as described on the Bid Form:
 - a. Dollars per square foot.
 - b. Dollars per lineal foot.
 - c. Dollars per unit.
- 3. The Contractor shall obtain written approval, on the Unit Pricing forms provided by or acceptable to the Consultant, by signature of the Consultant or an authorized on-site representative of the Owner, for each day's quantity of completed work affected by unit pricing.
- 4. The Contractor shall accumulate the completed Unit Pricing forms and submit them to the Consultant, on a weekly basis, in conjunction with a completed Change Order form totaling the cost of the approved Unit Pricing.
- 5. In the event that proper approval of Unit Pricing is not obtained, the Owner reserves the right to reject the Contractor's measurement of Unit Pricing work-in-place, and to have the Work measured by the Consultant, or an independent surveyor acceptable to both the Owner and Contractor, at the Contractor's expense.
- 6. Unit Pricing is intended to be used for small-scale areas of extra work. In the event that the scope of the work covered by the unit pricing escalates, the Owner reserves the right to use the Contractor's time and materials (T&M) rate or negotiate a lump sum price in lieu of the Unit Pricing.

B. Time and materials (T&M) pricing:

- 1. The Time & Material Rate submitted by the Contractor shall be considered fixed and inclusive of overhead and profit.
- Repair of latent defects or the execution of additional work for which unit prices were not submitted:
 - a. Dollars, per man-hour, for labor.
 - b. Percentage mark-up over purchase price for materials furnished.

C. Change Orders:

- 1. The Contractor shall be responsible for initiating the request for Change Order, on the forms provided by or acceptable to the Consultant, to include:
 - a. A summary of the approved Unit Pricing (include copies of approved Unit Pricing forms), on a weekly basis.
 - b. A description of the approved change in the Work, within one (1) week of initiation.
- 2. The Consultant will review the Change Order requests and forward them with his recommendation to the Owner; copies approved by the Consultant and Owner will be returned to the Contractor.
- 3. The Contractor shall submit the approved Change Order forms in conjunction with an Application for Payment form, including the total of the approved Change Orders.



- 4. Change Orders shall be considered valid only if:
 - a. Submitted in writing on the proper Change Order form.
 - b. Approved by signatures of both the Consultant and the Owner.
- D. Application for Payment:
 - 1. The Contractor shall submit:
 - a. Completed Application for Payment, on standard AIA formats or on IRS forms, in triplicate.
 - b. Contractor's original invoice.
 - c. Subcontractor's material and/or labor Waivers of Lien, where applicable, to match the amount requested.
 - d. Written justification for payment of materials not in-place by means of supplier invoices, bills of lading, Waivers of Lien, etc.
 - 2. The Contractor shall submit Application for Payment, on a periodic basis or as determined in the Agreement, to:

Industrial Roofing Services, Inc. 13000 West Silver Spring Drive Butler, WI 53007

EMAIL - office@irsroof.com

- 3. The Consultant shall review the Application for Payment and either:
 - a. Approve the requested amount as a representation that the Work has progressed to the point indicated and, that to the best of his knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents, or;
 - b. Revise the amount requested to an amount for which he is able to make such representation to the Owner.
 - c. Notify the contractor in writing of the applications rejection due to error and/or incompleteness
- 4. Payments will be reviewed, approved, and submitted to the Owner with the Consultants recommendations on a timely basis.

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION



01 30 00

ALTERNATES, ALLOWANCES AND SUBSTITUTIONS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section identifies each voluntary and/or mandatory Alternate, by number, and describes the basic changes to be incorporated into the Work; only if that Alternate is made a part of the Work by acceptance by the Owner in the Agreement.
- B. This section also includes the Contractor's options in selecting products or requesting the acceptance of substitute products.
- C. This section also specifies Allowances monetary amounts (or materials) to be included in the Contractor's bid prices which will be used to cover change orders, unit pricing, deteriorated material replacement and/or other intangibles during the course of the Work.

1.02 RELATED REQUIREMENTS

- A. Bidding Documents: Method of quotation for each Alternate, and the basis of the Owner's acceptance of Alternates.
- B. Referenced sections of these specifications, or drawing details, which stipulate the products and methods necessary to achieve the Work for each Alternate, as described below.
- C. Coordination of related work and modification of surrounding work of the Base Bid, as required to properly integrate the work of each Alternate, to provide the Work as required by the Contract Documents.

1.03 DESCRIPTION OF ALTERNATES

A. None.

1.04 PRODUCT OPTIONS AND SUBSTITUTIONS

- A. Contractor's product options:
 - 1. If products are specified only by reference standard, any product which meets that standard, by any manufacturer, shall be used.
 - If several products are specified by name or manufacturer, any of the listed products may be used.
 - 3. If only one product is specified by name or manufacturer, that product shall be used, or the Contractor shall submit a request for substitution, as specified below, for a product that meets or exceeds the quality standards of the listed product.
 - 4. If product list is followed by "Approved equal", the Contractor may use any of the listed products or shall submit his "or equal" for consideration, following the substitution procedure, as specified below.

B. Substitutions:

During the Bidding process, the Consultant may consider written requests from Bidders for substitute products in place of those specified. If the Consultant deems the substitute product to be worthy of approval, it will be incorporated as such into an Addendum to all Bidders. Requests for substitutions shall include data as listed below and shall be received at least five (5) business days prior to the bid due date.



- 2. Submit requests substitution, supported with complete data, drawings and/or appropriate samples as necessary to show compliance with the intent of the Contract Documents, including:
 - a. Product description, performance, and test data, and applicable reference standards.
 - b. If applicable, a letter from a substitute manufacturer that indicates the following:
 - 1) Manufacturer has reviewed and approved the specifications and drawings, as they relate to the use of their products.
 - 2) Manufacturer confirms the specified system (including requirements of the drawings, installation methods specified, and other products) is acceptable to the manufacturer.
 - 3) Upon installation of the specified system, by an approved applicator, the manufacturer will issue the specified warranty.
 - c. Name, address, date of installation and Owner contact of similar projects on which the product was used.
 - d. Changes required in other elements of the Work as a result of incorporation of the substitute product.
 - e. Effect on the anticipated construction schedule, if any.
 - f. Cost of incorporation of the proposed substitution regardless of whether the Contract Sum is affected or not.
- C. Contractor's representation: a request for substitution constitutes a representation that the Contractor:
 - 1. Has investigated and determined that the proposed substitute product is equal or superior, in all respects, to the specified product.
 - 2. Will provide the same warranty as specified if substitute products are utilized.
 - 3. Will coordinate the incorporation of the proposed substitution in the Work
 - 4. Will modify other portions of the Work, as may be required, to complete the project in accordance with the intent of the Contract Documents.
 - 5. Waive all future claims for added costs to the Contract, over and above those approved by the Owner that may be caused by use of the substitute product.
- D. Substitutions will not be considered if:
 - 1. They are indicated or implied on shop drawings or product data submittals, except as described above.
 - 2. The substitute product is considered, in the opinion of the Consultant, to be outside of the general classifications of the specified product.
 - 3. Approval of the substitution would require substantial revisions to the Contract Documents.
- E. Contractor shall not order or install substitute products without Written Notice of Acceptance of the request for substitution by the Consultant and the Owner. Submission of the Substitution Request Form does not in any way constitute approval. If the substitution is not approved, the rejection shall be considered final and the Contractor shall furnish a specified product.

1.05 CONSTRUCTION ALLOWANCE

- A. Contractor shall add a lump sum amount of **five thousand dollars (\$5,000.00)** to their base bid amounts for the funding of Unit Price Work.
- B. Use of the allowance is restricted to direction of the Consultant for the Owner's purposes and only authorized by Signed Change Orders or Unit Pricing Approvals that indicate amounts to be charged to the allowance.
- C. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.



1.01 MATERIAL PRICE CHANGE ALLOWANCE

- A. Ownership is aware that the current state of the roofing industry, specifically material availability and pricing, is unpredictable and that manufacturers are currently not offering price holds. Ownership is aware that this volatility presents the possibility that final material costs at the time of receiving the materials may be different than the costs reflected in the bid. As such, in an effort to accommodate this unpredictable situation and encourage Bidders to bid confidently and competitively, the bids shall include the following Material Price Change Allowance:
 - 1. Material Price Change Allowance: \$5,000
- B. If material prices change between the time of bidding and time of material receipt, Ownership will allow use of the Material Price Change Allowance to cover the cost increase, provided the material price change is proven, in writing, by the contractor, via the following steps. Bidder's wishing to participate in this accommodation must complete the following (Steps 1 & 2 below):
 - 1. Step 1: When submitting the bid, in conjunction with the bid form, Bidder shall submit the following two (2) items:
 - a. <u>Initial Material Price Declaration Spreadsheet</u> (provided below)
 - Contractor shall list any material(s) for which they intend to potentially claim a future cost change, and provide the dollar amount for said material, that the bid is based on.
 - b. <u>Detailed Evidence of Material Cost (supplier quotes)</u>
 - 1) Provide detailed evidence proving the dollar value for each item listed on the Initial Material Price Declaration Spreadsheet. This evidence shall be in the form of formal quote(s) or cost estimate(s) from the supplier(s), listing the quantity and cost of the materials. The dollar values shown on the Initial Material Price Declaration Spreadsheet shall match the dollar values shown in the supplier quotes.
 - 2. Step 2: Once materials are received and final cost confirmed, if the Bidder desires to claim a change in material prices, the Bidder shall submit the following item:
 - a. <u>Detailed Evidence of FINAL Material Cost (FINAL supplier quotes)</u>
 - Provide revised version of the detailed evidence of material costs. This
 evidence shall be in the same form as the initial material price evidence,
 showing that quantities remain the same, but reflecting any change in
 unit cost.
- C. If, in the opinion of the Owner, the evidence provided shows an unforeseen change in material prices, Ownership will allow usage of the Material Price Change Allowance to cover the applicable material price change amount. Limitations are as follows:
 - 1. The cost change covered shall not exceed the maximum allowed amount of \$5,000. Any cost increase above this amount shall be the Contractor's responsibility.
 - 2. Material price changes will only be allowed for materials specifically listed in the items required above. Any material price changes claimed by the Bidder that are not clearly documented, as required above, will be rejected.
 - 3. If the Bidder fails to submit initial material prices as part of their initial bid, attached to the bid form, no future material price changes will be allowed.
 - 4. This price change accommodation shall only apply to materials specifically documented as required above. It shall not apply to any undocumented material prices, labor costs, overhead & profit, or any other costs related to the project.
- D. Use of the Material Price Change Allowance is restricted to direction of the Consultant or Owner and only authorized by a Signed Change Order that indicates amounts to be charged to the allowance.
- E. At Project closeout, credit unused amounts remaining in the allowance to Owner by Change Order.
- F. Initial Material Price Declaration Spreadsheet is on the following page:



INITIAL MATERIAL PRICE DECLARATION SPREADSHEET

Bidders who wish to potentially utilize the Material Price Change Allowance shall submit this form in conjunction with their bid form.

Bidder shall list any material(s) for which they intend to potentially claim a future cost change, and provide the dollar amount for said material, that the bid is based on.

Bidders must also submit <u>Detailed Evidence of Material Cost (supplier quotes)</u>, matching the dollar values shown below.

Material(s)	Dollar Value
	\$
	\$
	\$
	\$
	\$
	\$
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	\$
	\$
	\$
	\$
	\$
	\$



PART 2-PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION



01 31 19

PROJECT MEETINGS

PART 1 - GENERAL

1.01 DESCRIPTION

A. This section provides information regarding the Consultant's scheduled project meetings.

1.02 PRE-BID MEETING

- A. If applicable, a pre-bid meeting will be held, at the project site, at the date/time designated in the bid invitation.
- B. Representatives of all prospective Bidders shall meet with the Consultant to review the existing conditions on the project site.
- C. The Consultant will, as a minimum, address the following items at the pre-bid meeting:
 - Introduction of key project personnel;
 - 2. The general project scope, including site walkover;
 - 3. The requirements of Section 00 21 13 "Instructions to Bidders";
 - 4. The bid(s) to be included;
 - 5. The Bid due date;
 - 6. The Owner's intended project construction schedule;
 - 7. Required project warranties;
 - 8. Any special requirements;
 - 9. Anticipated construction facilities:
 - a. Use of the site and restrictions, if any;
 - b. Temporary services and controls.

1.03 PRE-CONSTRUCTION CONFERENCE

- A. Within ten (10) days after Consultants receipt and approval of required project submittals Contractor shall provide Consultant with written notice of his intent to start the work.
- B. Within ten (10) days after receipt of Contractors written notice of his intent to start the work Consultant will schedule a formal pre-construction conference to be held at the project site, at a time designated by the Consultant.
- C. Representatives of the Contractor and his subcontractors, including the project superintendent and foreman, shall attend the pre-construction conference with the Consultant and a representative of the Owner.
- D. The Consultant will, as a minimum, address the following items at the pre-construction meeting:
 - 1. Designation of key personnel and their duties;
 - 2. The channels for project communication;
 - 3. Review of the project Scope of Work;
 - 4. The anticipated project construction schedule, showing timeframe for start and completion of each portion of the Work;
 - 5. Review of material list (Contractor shall provide an updated list if changes were made from initial submittal);
 - 6. Review of sequencing for critical areas of the Work;
 - 7. The requirements for approving and processing of Unit Pricing and Change Orders;
 - 8. Job site conditions and requirements:
 - a. Use of site and restrictions:



- b. Temporary services and controls;
- Existing facilities and maintenance of operation; C.
- Daily completion procedures, such as night seals; d.
- Emergency weather-seal protections;
- 9.
- Notification procedures; Expectations of the Owner and IRS; 10.
- Quality control of new work. 11.

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

Not Used. A.

END OF SECTION



01 33 00

SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.01 DESCRIPTION

A. This section provides requirements for project submittals and guidelines for submittals, by the Contractor or his Subcontractor, of shop drawings and other submittals as requested in the Project Documents.

1.02 SUBMISSION REQUIREMENTS

- A. Submittals listed below shall be delivered to the Consultant as soon as possible after Contract Award, but no later than ten (10) days prior to Contractor's intent to start work, and/or a minimum of five (5) days before approval is needed to order materials.
- B. Accompany submittals with transmittal letter, containing:
 - Date.
 - 2. Project title and IRS Job number.
 - Contractor's name and address.
 - 4. Notification of deviations from Contract Documents, if any.

C. Required Submittal items:

- 1. <u>Insurance Certificate</u>: Original copy, with the Owner as certificate holder and the Consultant (and any other entities specified) named as Additional Insureds.
- 2. Performance and Payment Bonds: If required by Owner.
- 3. <u>Materials</u>: <u>List</u> of major products proposed for use, with name of manufacturer, trade name or model number of product or materials (final list may be provided at the preconstruction meeting if changing between specified products). Submit product data sheets, printed information, installation instructions, catalog cuts, or material color charts.
- 4. <u>Safety Data Sheets</u>: Provide copies of SDS for each product that will be brought on-site.
- 5. <u>Project Schedule</u>: Provide a breakdown of the project schedule timetable by <u>each major</u> <u>portion</u> of the work. As a minimum, include start and completion dates for each required task.
- 6. <u>Schedule of Values</u>: Provide a breakdown of project cost by <u>each major portion</u> of the Work such as mobilization, tear-off/temporary roof, insulation/membrane, flashings, sheet metal, etc. **DO NOT** list only material and labor.
- 7. <u>Sheet Metal Color Charts</u>: Original, standard color charts, for selection by the Owner. This selection may not be made during the submittal approval process.
- 8. <u>Shop Drawings</u>:
 - a. Tapered insulation drawing: Taper layout shall conform to the intent of the Contract Drawings.
- 9. <u>Manufacturer's Certification:</u> Submit a letter from the manufacturer stating their intent to warrant the project, as specified, including certification of the Contractor's standing as a licensed applicator of the specified product and/or system.
- 10. <u>Warranty</u>: Submit a sample copy of the applicable manufacturer's warranty as well as a copy of the completed application for warranty.
- 11. <u>Project Contacts</u>: Provide all necessary contact numbers (cellular, pager, etc.) for key personnel involved in the project. Include after-hours contact name and home telephone number in case of emergency. Also provide subcontractors' names, addresses, contact names, and phone/fax numbers, if applicable.



1.03 SHOP DRAWINGS

A. Original drawings required by the Project Documents, prepared by Contractor, Subcontractor, material supplier or distributor, which illustrate some portion of the Work, showing fabrication, layout, setting or erection details, prepared by a qualified draftsman. Reproduction and use of enclosed drawings will not be allowed.

1.04 CONTRACTOR RESPONSIBILITIES

- A. The Contractor shall review the shop drawings, product data and samples prior to submission. The Contractor shall initial, sign, or stamp the submittals to certify his review and acceptance.
- Verification of existing field measurements and conditions is the SOLE responsibility of the Contractor.
- C. The Contractor's responsibility for errors and omissions in submittals is not relieved by the Consultant's review or acceptance of submittals.
- D. Clearly indicate, in the submittals, any deviations from the requirements of the Project Documents caused by acceptance of substitutions, negotiations with the Owner after the Bid, etc. Any changes to the Project Documents must be confirmed by written Change Order.
- E. The Contractor shall not begin work prior to receipt of the approved submittals from the Consultant.

1.05 DISTRIBUTION OF SUBMITTALS

- A. The Consultant will retain three (3) copies of approved or approved-as-noted submittals, two for IRS office use, and one for the Owner, and will return the remaining copies to the Contractor.
- B. The Contractor shall be responsible for distributing submittals which carry the Consultant's approval, as required for construction or fabrication, to the project Superintendent, Subcontractors, and material suppliers or distributors.

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION



01 40 00

QUALITY CONTROL

PART 1 - GENERAL

1.01 DESCRIPTION

A. This section provides requirements for the standards of quality for materials and workmanship for this project.

1.02 GENERAL

A. The Contractor shall maintain quality control over his employees, suppliers, manufacturer's products, services and site conditions to produce work of specified quality.

1.03 WORKMANSHIP

- A. Comply with recognized industry standards, except where specifications indicate more rigid standards or more precise workmanship.
- B. Perform the Work with personnel qualified to produce workmanship of specified quality.

1.04 APPLICATION QUALITY CONTROL

- A. The Contractor shall be experienced in all aspects of the type of work being performed.
- B. The Contractor shall be approved, by the product/system manufacturer, to install the specified roof system prior to the commencement of the Work. The Contractor shall also be certified to procure the specified warranty.
- C. The Contractor shall, at all times, have a complete set of Project Documents, including specifications, drawings, SDS sheets and approved submittals for his use and reference, on the project site. The site superintendent shall produce these Project Documents upon request of either the Owner or the Consultant. Failure to do so will result in a violation of Item 1.07 of this Section.

1.05 MANUFACTURER'S FIELD SERVICES

- A. Product Manufacturer(s) shall make available, upon request, qualified personnel to observe field conditions, conditions of surfaces and installation and quality of workmanship.
- B. The product manufacturer shall make qualified personnel available to make necessary recommendations during the course of the project, and to perform a final review of the Work, if requested.
- C. The manufacturer's representative shall submit a copy of his written report to the Consultant, listing observations and recommendations.

1.06 CONSTRUCTION OBSERVATION

A. Construction observation shall be conducted by the Consultant on a periodic basis, as determined by agreement with the Owner. If the Contractor is cited for non-compliance with the specifications during the course of a site visit, all parties shall be notified with a copy of the observation report.



B. In the event that the Contractor is cited for the same non-compliance item twice, or any three items total, the Owner may employ the Consultant to provide more frequent observation or full-time observation, to ensure compliance with the Project Documents. The cost of these additional visits may be deducted, in whole or in part, from the Contractor's final contract amount.

PART 2 - PRODUCTS

A. Not Used.

PART 3 PART 3 - EXECUTION

A. Not Used.

END OF SECTION



01 50 00

SITE CONDITIONS AND CONTROLS

PART 1 - GENERAL

1.01 DESCRIPTION

A. This section provides requirements for the Contractor's operations at the project site, including use of existing facilities and utilities, delivery and storage of materials and equipment and controls affecting work operations.

1.02 SECURITY AND ACCESS

- A. Security: follow the Owner's procedures and requirements, as established during the preconstruction conference.
- B. Maintenance of access and operations:
 - 1. During the performance of the Work, the Owner shall continue to perform his normal operations in the building. The Contractor shall maintain access to Owner-occupied areas at all times.
 - 2. Schedule demolition and roofing work with the Owner in such a manner as to allow his normal operations to continue without interruption.
- C. Maintenance of existing services:
 - 1. The Contractor shall, during the performance of the Work, not adversely affect the temperature and humidity of the building interior; dust and debris shall be controlled to prevent interference with normal operations.
 - 2. Notify the Owner a minimum of three (3) days prior to each required interruption of mechanical or electrical services in building. Such interruptions shall occur only when, and for the length of time, approved by the Owner.

D. Building access:

- Access to the building's interior shall be restricted to investigating leaks and performing
 portions of the Work which requires such interior access. The Contractor shall not have
 access to the building's interior during non-business hours unless previously arranged
 with the Owner.
- All access to the project site shall be by way of exterior means provided by the Contractor.
- 3. Restrict construction traffic over adjacent areas as designated by the Owner during the pre-construction conference.

1.03 MATERIAL STORAGE AND HANDLING

- A. Store materials on-site where specified in Section 01 60 00 "Materials and Equipment." Do not use any portion of the building interior for storage, unless specifically approved by the Owner.
- B. Stored materials shall be available for review by the Owner or Consultant at all times.
- C. Handle all materials properly and in original cartons or containers to prevent damage. Provide for all necessary rigging of materials and equipment supplied to the project site.

1.04 SANITARY FACILITIES

A. The Contractor shall provide adequate, temporary chemical toilets for use by his employees. The toilets shall be in place at the project site when the Work is commenced.



B. Upon completion of the Work, remove these facilities and all traces thereof.

1.05 TEMPORARY WATER

- A. The Contractor shall make arrangements with the Owner for water as required during the performance of the Work.
- B. The Owner shall be responsible for the cost of the water supply.
- C. The Contractor shall be responsible for providing hoses necessary for conveyance.

1.06 TEMPORARY ELECTRICAL POWER

- A. The Contractor shall make arrangements for electrical service, as necessary for completion of the Work, as established during the pre-construction conference.
- B. In the event that the Owner agrees to provide access to electrical service, he shall pay all energy charges for power and/or lighting used by the Contractor.

1.07 ENVIRONMENTAL CONDITIONS

- A. Do not work in rain or snow, or in the presence of visible precipitation.
- B. Do not install materials marked "Keep from Freezing" when daily temperatures are predicted to fall below 40°F.
- C. Do not perform masonry work unless the temperature is above 35°F and rising. Make provisions to protect masonry work from freezing for a period of forty-eight (48) hours after completion. Remove any masonry work that has been exposed to freezing within forty-eight (48) hours of completion.

1.08 DEBRIS REMOVAL

- A. Remove debris promptly from work areas each day. Do not allow piled debris to accumulate.
- B. All removed material, unless specifically noted for retention by the Owner, becomes the property of the Contractor.
- C. Do not allow debris to enter roof drains, storm sewers, catch basins, etc.
- D. Provide at site, prior to commencing removal of debris, a dumpster or dump truck to be located adjacent to the building where directed by the Owner.
- E. Protect the building surfaces at set-up and debris removal areas. Take all precautions necessary to prevent the scattering of debris during operations.
- F. Remove dumpster or dump truck from the premises when full and dispose of at an approved dumping or refuse area.
- G. Upon job completion, dumpster or dump truck and set-up area protection shall be removed from premises. All spilled or scattered debris shall be cleaned up immediately.

1.09 PARKING FACILITIES

A. The Owner shall provide vehicle parking assignments and/or restrictions for the Contractor to the extent established during the pre-construction conference.



1.10 LEAK (WATER) DAMAGE CONTROL

- A. In the event of rain during performance of the Work, make work watertight and immediately inspect the interior of the building for leaks. The Contractor shall continue to check on the watertight status of the work on a 24-hour basis.
- B. Coordinate procedures with the Owner for access to the building during non-business hours for emergency work.
- C. If leaks are discovered during rains. Immediately notify the Owner of leak condition and perform emergency repairs on the work to stop leaks.

1.11 CLEANING

- A. The Contractor shall remove all spillage, overspray, or collections of dust or debris, and repair any damage inflicted on Owner-occupied spaces during the course of the Work.
- B. As soon as work on an area is complete, clean up all surfaces, remove equipment, materials and debris, and restore to a condition suitable for use by the Owner as quickly as possible.

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION



01 60 00

MATERIALS AND EQUIPMENT

PART 1 - GENERAL

1.01 DESCRIPTION

A. This section includes general requirements for delivery, storage and handling of products to be used in the Work.

1.02 GENERAL

- A. Materials to be incorporated into the Work:
 - 1. Shall conform to applicable specifications and standards.
 - 2. Shall comply with the size, make, type and quality specified or shall be substitute products as specifically approved, in writing, by the Consultant.
 - 3. Fabricated products:
 - a. Fabricate and assemble in accordance with recognized industry standards.
 - b. Shall conform to the dimensions and configuration shown or specified or in accordance with approved shop drawing submittals.
- B. Materials shall not be used for purposes other than those for which they are designed, unless otherwise specified.

1.03 REUSE OF EXISTING MATERIALS

- A. Except as specifically indicated in the Construction Drawings or in Section 01 11 00 "Summary of Work," materials and equipment removed from the existing construction shall not be utilized in the completed Work.
- B. Where materials and equipment are specifically indicated to be reused in the Work:
 - 1. Use special care in removal, handling, storage and reinstallation, to assure adequate and proper function in the completed Work.
 - 2. The Contractor shall be responsible for transportation, storage and handling of products which require off-site storage, restoration or renovation.

1.04 MANUFACTURER'S INSTRUCTIONS

- A. Where Project Documents require that the installation of work shall comply with the manufacturer's printed instructions, obtain and distribute copies of those instructions to all parties involved in the installation, including two copies to the Consultant.
 - 1. Maintain one set of complete instructions at the project site until completion of the work.
 - 2. Include copies of the printed instructions with the appropriate Product Data submittal.
- B. Handle, install, connect, clean, condition and adjust products in strict accordance with such instructions, and in conformity with specified requirements.
 - 1. Should existing conditions or specified requirements conflict, in any way, with the manufacturer's instructions, request clarification from the Consultant. Failure to notify the Consultant shall be grounds for rejection of the completed work.
 - 2. Do not proceed with work without clear instructions.

1.05 TRANSPORTATION AND HANDLING

A. Arrange for delivery of materials in accordance with construction schedules; coordinate to avoid conflict with sequencing of the Work and conditions at the project site.



- 1. When being transported to the project site by the Contractor, cover and protect materials in transit against entrance of dirt and/or weather damage.
- 2. Deliver materials in undamaged condition, in manufacturer's original containers or packaging, with identifying labels intact and legible.
- 3. Immediately upon delivery, inspect shipments to assure compliance with requirements of the Project Documents and approved submittals, and to assure that materials are properly protected and undamaged.
- B. Handle all materials properly and in original cartons or containers to prevent damage.
- C. Provide equipment and personnel to handle materials using methods necessary to prevent soiling or damage to products or packaging.

1.06 STORAGE OF MATERIALS

- A. Stored materials shall be available for review by the Owner or Consultant at all times.
- B. Store rolled goods on ends only. Discard rolls which have been flattened, creased, or otherwise damaged.
- C. Do not use any portion of the building interior for storage, unless specifically approved by the Owner
 - 1. Disperse materials on rooftop to avoid concentrated loading of structure.
 - Do not place materials on newly completed roofing or on areas of roofing not included in the Work.
- D. Stack insulation and roll goods on pallets; neatly stack wood on dunnage. Do not stack pallets.
- E. Store pallets of new steel roof deck with one end elevated to provide drainage.
- F. Completely cover the top and sides of materials with tarpaulin. Secure tarpaulin to prevent blow-off.
- G. Materials which, in the judgment of the Consultant, have been damaged, contaminated or improperly stored shall be immediately removed from the project site and replaced with new materials.

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION



01 70 00

CONTRACT CLOSE-OUT AND WARRANTIES

PART 1 - GENERAL

1.01 DESCRIPTION

A. This section includes requirements for specific administrative procedures, close-out submittals, warranties and other forms to be used at the final completion of the Work.

1.02 CLOSE-OUT PROCEDURES

- A. When the Contractor considers the Work complete, he shall submit *Written Notice* to the Consultant that:
 - 1. He has reviewed the Project Documents and inspected the project for compliance with them:
 - 2. He certifies that the Work has been completed in accordance with the Project Documents; and
 - 3. He certifies that the project is complete, to his satisfaction, and is ready for the Final Review
- B. The Consultant will perform the Final Review after receipt of the Contractor's *Written Notice* of project completion.
 - 1. If the Consultant considers the Work to be complete and in accordance with the requirements of the Project Documents he shall notify the Contractor to produce the Contract Close-out submittals, as described below.
 - 2. If the Consultant considers the Work to be incomplete or not in accordance with the requirements of Project Documents:
 - a. He shall notify the Contractor, in writing, of the deficiencies.
 - b. The Contractor shall take immediate steps to remedy the identified deficiencies, and shall make the Work ready for re-review.
 - c. The Contractor shall submit a second **Written Notice** to the Consultant confirming that the identified deficiencies have been remedied.
 - d. The Consultant shall review the Work and, if complete, shall notify the Contractor to produce the Contract Close-out Submittals.
 - 3. Should the Consultant be required to perform a third review of the Work due to the failure of the Contractor to correct previously-identified deficiencies, the Owner may retain, from moneys due the Contractor, such amount as necessary to compensate the Consultant for additional visits.

1.03 FINAL CLEANING

- A. Perform project clean-up prior to the Final Review:
 - Clean surfaces, gutters, downspouts and drainage system free from foreign matter and debris.
 - 2. Remove all grease, mastics, adhesives, bitumen or other foreign materials from sightexposed exterior surfaces of the building.
 - 3. Repair, patch and touch up marred surfaces to match adjacent finishes.
 - 4. Remove all waste and surplus material, rubbish, and construction facilities from the project site.
 - 5. Repair the grounds and landscaping in accordance with Section 01 74 29 "Grounds Repair."
 - 6. Prior leaving the project site, conduct a thorough review of the work surfaces and all sight-exposed exterior surfaces in work areas, to verify that the entire Work is clean.



1.04 CLOSE-OUT SUBMITTALS AND WARRANTIES

- A. Guarantees, Warranties and Bonds:
 - 1. The Contractor shall, upon project completion provide the following original warranty documents to the Consultant for the delivery to the Owner:
 - a. After the Consultant's acceptance, the Contractor shall deliver to the Consultant each manufacturer warranty required by individual Sections of the Project Specifications, to be effective once complete payment has been received by both the Contractor and material suppliers.
 - b. Contractors two (2) year workmanship warranty for labor and materials.

B. Certification:

- 1. Lien Waivers: The Contractor shall submit final Waivers of Lien including those from subcontractors, material suppliers, or any other parties that may have lien rights against the property of the Owner, including a list of those parties. All waivers of lien shall be verified and duly executed before submittal.
- C. Final Application for Payment:
 - The Contractor shall submit a final Application for Payment form showing the remaining amount due.

1.05 CONTRACT CLOSE-OUT PACKAGE

- A. The Contractor shall submit the Contract Close-out package to IRS Corporate Office in accordance with these requirements. The Consultant shall review the Contract Close-out Package for accuracy and completeness.
 - 1. Contract Close-out Packages that <u>are accurate, complete and in proper form</u> shall be approved by Consultant and submitted to Owner on a timely basis.
 - 2. Contract Close-out Packages that <u>are not accurate, complete and in proper form,</u>
 Consultant shall notify Contractor of its rejection and cause the Package to be set aside for forty-five (45) days, after which time Consultant shall again review corrected Contract Close-out Package if received and if correct, shall approve final payment and submit them to the Owner on a timely basis.

IRS CORPORATE OFFICE Industrial Roofing Services, Inc. 13000 West Silver Spring Drive Butler, Wisconsin 53007 c/o office@irsroof.com

PART 2 - PRODUCTS

A. Not Used.

PART 3 - EXECUTION

A. Not Used.

END OF SECTION



01 74 29

GROUNDS REPAIR

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section covers the removal, and replacement with like materials, of lawns, plantings, and pavement damaged by the Contractor during the performance of the Work.
- B. The cost of all repairs covered under this section shall be the **sole** responsibility of the Contractor. If the Contractor fails to make repairs to the Owner's satisfaction, the Owner reserves the right to retain, from moneys due the Contractor, such amount as necessary to repair the grounds to their previous condition.

1.02 REQUIREMENTS

- A. Verify, with the Owner, at the pre-construction meeting, as to whether re-seeding will be acceptable for repair of lawn areas; if not, areas shall be resodded.
- B. All plants and planting materials shall meet "Horticultural Standards" for number one grade nursery stock as adopted by the American Association of Nurserymen.
- C. All plants and planting materials shall meet or exceed applicable regulatory requirements and inspections for plant disease and insect control.

1.03 WORK SEQUENCING

- A. Do not proceed with permanent replacements until after the Contractor has cleaned and vacated the project site.
- B. Replacement plantings and/or sod:
 - 1. Place plantings and/or sod within forty-eight (48) hours of cutting; protect and maintain during transit and storage on the site to prevent dry-out.
 - 2. All plantings and/or sod remaining unplaced on the site longer than forty-eight (48) hours, as well as any yellowing or otherwise discolored plantings and/or sod shall be discarded.

1.04 WARRANTY

A. The Contractor shall maintain and warrant all work performed under this section for a period of ninety (90) days from the date of its completion. The Contractor shall be responsible for the correction of unsatisfactory landscaping materials or workmanship and shall repair such defects promptly upon notice, at no additional cost to the Owner.

PART 2 - PRODUCTS

2.01 ACCEPTABLE LAWN REPAIR PRODUCTS

- A. Provide topsoil which is:
 - 1. Natural, friable, and characteristic of soil on the project site:
 - 2. Not extremely acidic nor alkaline, nor containing toxic substances;
 - 3. Free from subsoil, clay lumps, stones, roots, debris or other foreign objects;
 - 4. Contains 1/3, by volume, soil amendment organic material, fortified with organic nitrogen.



- B. Provide fertilizer which is:
 - 1. Commercially-balanced 11-8-4 composition.
 - 2. Free flowing to allow for mechanical spreading.
- C. Provide grass seed, if acceptable, which is:
 - 1. Free from noxious weeds, and recleaned;
 - 2. Grade A recent crop seed;
 - Treated with appropriate fungicide at time of mixing;
 - 4. In proportion, by weight:
 - a. Kentucky Bluegrass 35%
 - b. Red Fescue 20%
 - c. Hard Fescue 20%
 - d. Improved Fine Perennial Ryegrass 25%
 - 5. Covered with clean and weed-free straw mulch.
- D. Provide sod, if grass seed is not acceptable, which is:
 - 1. Well established, containing dense root systems;
 - 2. Exhibiting vigorous, healthy root growth;
 - 3. Free of noxious weeds, objectionable grasses, grubs, diseases or injurious insects.

2.02 ACCEPTABLE PLANTING REPAIR PRODUCTS

- A. Provide trees and/or plants which are:
 - 1. Of the same species and size of growth to match those being replaced;
 - 2. Well established, containing dense root systems;
 - 3. Exhibiting vigorous, healthy root growth;
 - 4. Free of grubs, diseases or injurious insects.
- B. Provide planting bed cover consisting of:
 - 1. Ground mulch chips;
 - 2. Shredded bark.

2.03 VEHICLE & PEDESTRIAN PAVEMENTS

- A. Asphalt pavement:
 - 1. Base course aggregate:
 - a. Crushed limestone (traffic-bond) or crushed concrete, containing no pieces over three-quarter (3/4) inch in greatest dimension, for base courses less than four (4) inches thick.
 - b. Crushed limestone, containing no pieces over one and one-half (1-1/2) inches in greatest dimension, for base courses over four (4) inches thick.
 - 2. Paving asphalt:
 - a. Shall comply with applicable sections of the State Highway Specifications for binder and surface-grade paving asphalt mixes.
 - b. Shall be hot, plant-mixed asphalt paving material; temperature shall be 290-320°F when leaving the plant and 280°F, minimum, at time of placement.
- B. Concrete pavement: Compressive strength shall achieve a minimum of 4000 psi in twenty-eight (28) days. Mix concrete materials in accordance with ASTM C94, to comply with the following:
 - 1. Slump: three (3) inches, plus one (1) inch or minus one-half (1/2) inch.
 - 2. Air entrainment: Maximum five percent (5%) at time of placement.
 - Maximum aggregate size: ¾ inch.
 - 4. Minimum cement content: 440 lbs./cu. Yd.
 - 5. Maximum fly ash content: 100 lbs./cu. Yd.
 - 6. Maximum water-to-cementitious material ratio (W/C): 0.55.



PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine the project site and verify satisfactory conditions for performance of the work.
- B. Notify the Owner and Consultant of pre-existing defects or conditions which may interfere with the requirements of this section. Absence of notice will constitute the Contractor's acceptance of the site.
- C. Verify existence and location of underground utilities, water and gas lines, fire sprinkler systems, pavement heating devices, and lawn sprinkling systems.

3.02 PREPARATION

- A. Provide protection of existing adjacent trees, plantings, lawns and pavement prior to commencing repairs.
- B. Lawn replacement areas:
 - 1. Fill ruts and depressions with topsoil. Work the soil to a to depth of not less than three (3) inches with a rototiller.
 - 2. Remove stones, debris, and foreign objects larger than one (1) inch in diameter from the lawn repair area prior to seeding or sodding.
 - 3. Grade the repair area, thoroughly remove ridges and depressions, and make area a smooth, continuous, firm plane that ensures proper drainage.
- C. Planting replacement areas:
 - 1. Remove existing damaged trees, plants or ground cover. Remove large root systems, stones, debris, of foreign objects larger than one (1) inch in diameter from the area prior to installation of new plantings.
 - 2. Remove the topsoil, to a depth of not less than three (3) inches, from an area not less than three (3) times the width of the root ball of the new planting.
 - 3. Dig a hole in the center of the prepared area:
 - a. For a one (1) gallon plant container, twelve (12) inches wide and deep.
 - b. For a five (5) gallon plant container, twenty (20) inches wide and deep.
 - c. For a fifteen (15) gallon plant container, thirty (30) inches wide and deep.
 - d. For larger trees, 1-1/2 times the root ball diameter wide and deep.

3.03 LAWN REPLACEMENT - SEEDING

- A. When preparations are complete, seed the repair area:
 - 1. Sow the grass seed over the area with a mechanical seeder at the rate of five (5) pounds per thousand (1,000) square feet.
 - 2. Promptly after seeding, water until the soil is saturated to a depth of two (2) inches; apply water slowly to prevent erosion of the seed bed.
 - 3. Apply the specified fertilizer at the rate of twenty (20) pounds per thousand (1,000) square feet; rake lightly into the soil.
 - 4. Cover the repair area with chopped straw mulch approximately ½-inch thick.
 - 5. Make arrangements to keep the seed beds moist throughout the germination process.

3.04 LAWN REPLACEMENT - SODDING

- A. When preparations are complete, install sod:
 - 1. Fit sod pieces tightly together so that no joint is visible, with alternate courses staggered. Compact sod to eliminate all air pockets, provide a true and even surface, and ensure knitting without displacement of sod or deformation of the surface of sodded areas.
 - 2. Fill cracks between sod pieces with screened topsoil following compaction.



- 3. Excess soil shall be worked into the grass surface.
- 4. Bury edges of sod pieces flush with adjacent soil.
- 5. After the sod has been placed, water with a fine spray until the soil is saturated to a depth of two (2) inches.
- 6. Make arrangements to keep the sod moist until it is rooted into place.

3.05 TREE, PLANT AND GROUND COVER REPLACEMENT

- A. When preparations are complete, install planting:
 - 1. Fill the bottom of the hole with a backfill mixture, consisting of three (3) parts soil (removed from the hole) and one (1) part soil amendment, to support the root ball so that the top of the ball is just above or equal to the existing grade for drainage.
 - 2. Place the root ball of the planting into the hole and adjust for height and position of the planting. Work excess soil to the sides for support of the root ball.
 - 3. Fill the remaining area of the hole with backfill mixture around the root ball; tamp firmly to eliminate all air pockets. When the hole is 2/3 full, thoroughly water the plant to saturate the soil.
 - 4. Fill the remainder of the area with topsoil and tamp into place until the surface is slightly sloping to the edge of the surrounding area.
 - 5. Remove excess soil from the area.
 - 6. Stake trees over four (4) feet high with a minimum of two (2) stakes and ties. Drive stakes a minimum of twelve (12) inches deep; provide protection for trunk at tree-tie location.
 - 7. Apply the specified planting bed cover to a minimum depth of two (2) inches, evenly spread over the entire area.
 - 8. Water with a fine spray to ensure that the soil is thoroughly saturated.
 - 9. Make arrangements to water the planting regularly until it is rooted into place.

3.06 PAVEMENT REPLACEMENT

- A. Removal and subgrade preparation:
 - 1. Remove damaged areas of paving, as well as areas of unsound pavement and areas heavily stained with grease and oil.
 - 2. Cut edges to a straight, vertical edge of ½-inch or more, by means of mechanical sawing. Excavate a minimum of six (6) inches below the existing, surrounding pavement surface, or as necessary to reach sound base material.
 - 3. Provide new aggregate subbase as required to fill within three (3) inches of existing, surrounding asphalt pavement surface or to within four (4) or six (6) inches of existing, surrounding concrete pavement surface, depending on slab thickness. Compact aggregate subbase to 95% density.
- B. Asphalt paving replacement:
 - 1. Place the new asphalt paving material in two lifts:
 - a. The first lift shall be 1-3/4 inches, after compaction, binder-grade asphalt.
 - b. The second lift shall be 1-1/4 inches, after compaction, surface-grade asphalt.
 - 2. Spread material in a manner which requires minimal handling.
 - 3. After the material is placed, to proper depth, roll until the surface is hard, smooth, unyielding, and true to the specified thickness and elevation of the existing, surrounding asphalt pavement.
 - 4. Roll surface layer in at least two directions until no roller marks are visible.
 - 5. Finish paving surface shall be free from "birdbaths," with no variations of more than 1/8-inch in six (6) feet.
 - 6. Seal the interface of the existing pavement with hot rubberized crack filler to prevent water infiltration.
- C. Concrete paving replacement:
 - 1. Place wooden forms where necessary, staked into the ground, to provide straight and true edges for new pavement.



- 2. Dampen the subgrade material before placing concrete.
- 3. Pour concrete over the prepared subgrade. Tamp the freshly-placed concrete, using a heavy tamper, until at least 3/8-inch of mortar is brought to the surface.
- 4. Trowel surface and screed with a straightedge until depressions and irregularities are worked out and the surface is true to specified thickness and elevation of the existing, surrounding concrete pavement.
- 5. Float surface to a compact, smooth surface.
- 6. When concrete has set sufficiently, provide a non-slip, "broomed" surface finish.

END OF SECTION



07 51 00

BUILT-UP ASPHALT ROOFING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES

- A. Asphaltic built-up roofing
- B. Insulation

1.03 REFERENCES

- A. Factory Mutual (FM Global) Approval Guide.
 - 1. Factory Mutual Standard 4470 Approval Standard for Class 1 Roof Covers.
- B. Underwriters Laboratories (UL) Roofing Systems and Materials Guide (TGFU R1306)
- C. American Society for Testing and Materials (ASTM) Annual Book of ASTM Standards.
 - 1. ASTM C 208 Standard Specification for Cellulosic Fiber Insulating Board.
 - 2. ASTM C 728 Standard Specification for Perlite Thermal Insulation Board.
 - 3. ASTM C 1289 Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
 - 4. ASTM D 41 Standard Specification for Asphalt Primer Used in Roofing, Dampproofing and Waterproofing.
 - 5. ASTM D 312 Standard Specification for Asphalt Used in Roofing.
 - 6. ASTM D 1863 Standard Specification for Mineral Aggregate Used on Built-up Roofs.
 - 7. ASTM D 2178 Standard Specification for Asphalt Glass Felt Used in Roofing and Waterproofing.
 - 8. ASTM D 3672 Standard Specification for Venting Asphalt-Saturated and Coated Inorganic Felt Base Sheet Used in Roofing.
 - 9. ASTM D 3909 Standard Specification for Asphalt Roll Roofing (Glass Felt) Surfaced With Mineral Granules.
 - 10. ASTM D 4586 Standard Specification for Asphalt Roof Cement, Asbestos Free.
 - 11. ASTM D 4601 Standard Specification for Asphalt-Coated Glass Fiber Base Sheet Used in Roofing.
 - 12. ASTM D 4897 Standard Specification for Asphalt-Coated Glass-Fiber Venting Base Sheet Used in Roofing.
 - 13. ASTM D 6163 Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements.
 - 14. ASTM D 6164 Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Polyester Reinforcements.
 - 15. ASTM D 6222 Standard Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements.
- D. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) Architectural Sheet Metal Manual.
- E. Asphalt Roofing Manufacturers Association (ARMA).



- F. National Roofing Contractors Association (NRCA).
- G. American Society of Civil Engineers (ASCE).
 - 1. ASCE 7 Minimum Design Loads for Buildings and Other Structures.

1.04 DEFINITIONS

A. Roofing Terminology: Refer to ASTM D 1079 and glossary of the National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual for definitions of terms roofing terms related to this section.

1.05 PERFORMANCE REQUIREMENTS

- A. General: Provide installed roofing membrane and base flashings that remain watertight; do no permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.
- B. Acceptance of Completed Work: Acceptance of completed Work will be based on its conformance to the Contract. Nonconforming Work is subject to rejection.
- C. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- D. All plies are to be hand-mopped. The use of felt layers to lay the roofing felts is unacceptable and will be viewed as a violation of these specifications.
- E. Prevent tracking of aggregate from existing membrane into new work area where aggregate pieces can be trapped within the new roof membrane. The Contractor shall ensure that aggregate is not carried into the new work areas on workmen's shoes or equipment wheels. Discovery of entrapped aggregate within the roof membrane plies is sufficient cause for its rejection.

1.06 SUBMITTALS

A. Submit under provisions of Section 01340.

1.07 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer that is UL listed for membrane roofing system identical to that used for this Project.
 - 1. Company specializing in manufacturing the products specified in this section with a minimum of 10 years of documented experience.
- B. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by the membrane roofing system manufacturer to install the manufacturer's product and that is eligible to receive the manufacturer's warranty.
 - Company specializing in performing the work of this section with a minimum of 10 years' experience.
- C. Source Limitations: Obtain all components including roof insulation & fasteners for membrane roofing system from the same manufacturer as membrane roofing or approved by the membrane roofing manufacturer.
- D. Perform work in accordance with NRCA Roofing and Waterproofing Manual and manufacturer's printed instructions.
 - 1. Maintain 1 copy on site.



- E. Pre-construction Conference: Conduct conference at Project site. Comply with requirements in Division 1 Section "Project Meetings." Review methods and procedures related to roofing system including, but not limited to, the following:
 - 1. Meet with Owner, Consultant, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.
 - Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.
 - 8. Review temporary protection requirements for roofing system during and after installation.
 - 9. Review roof observation and repair procedures after roofing installation.
- F. Notification to Start Work: Notify the Consultant's Assigned Project Manager in writing one (1) week in advance of Work start date.
- G. Meetings: Attend meetings as requested by the Owner or Consultant's Assigned Project Manager. Coordinate the attendance of participants.
- H. Final Inspection: Request a final roof inspection in writing to the Consultant's Assigned Project Manager once the Contractor has determined the project is complete and attends the final roof inspection as scheduled.
 - 1. Provide seven days advance notice to attendees, and coordinate attendance of:
 - 2. Roofing Contractor
 - 3. Owner
 - 4. Consultant's Assigned Project Manager
 - 5. Others as designated and/or required

1.08 REGULATORY REQUIREMENTS

- A. Work shall be performed in a safe, professional manner, conforming to all federal, state and local codes.
- B. Roofing System Design: Provide membrane roofing system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency to resist uplift pressure calculated according to ASCE/SEI 7.

1.09 DELIVERY, STORAGE AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storage.
- B. Store pail goods in their original undamaged containers in a clean, dry location within their specified temperature. Protect stored liquid material from direct sunlight.
 - Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.



- C. Store roll goods on end on pallets in a clean, dry, protected area. Take care to prevent damage to roll ends or edges. Do not double stack modified bitumen products.
- D. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- E. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.
- F. Store and dispose of solvent-based materials and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.10 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.
- B. Nuisance Odors: Avoid asphalt nuisance/odor entrainment to adjacent occupied buildings. Coordinate placement of asphalt kettle(s) and closure of HVAC outside air intake louvers with Owner. Employ the use of fume recovery systems if required by building Owner.
- C. Supervision: Supervise and direct the Work, using the best skill and attention. Be solely responsible for, and control, the construction means, methods, techniques, sequences, and procedures, and coordinate the Work under this section. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, perform an independent evaluation of the safety thereof and be fully and solely responsible for such means, methods, techniques, sequences, or procedures. If the evaluation discloses that such means, methods, techniques, sequences, or procedures may not be safe, give timely written notice of what is unsafe with recommendation for remedial action, with specificity, to the Consultant in writing by facsimile and by certified or registered mail.

1.11 WARRANTY

- A. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.
 - 1. Special warranty includes roofing membrane, base flashings, roofing membrane accessories roof insulation fasteners cover boards substrate board vapor retarder roof pavers walkway products and other components of roofing system.
 - 2. Warranty Period: Twenty (20) years from date of Substantial Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering Work of this Section, including all components of roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
 - 1. **Warranty Period: Two (2) years** from date of Substantial Completion.

1.12 SEQUENCING AND SCHEDULING

A. Preparation work shall be limited to those areas that can be covered with the complete roof membrane on same day or before arrival of inclement weather. Phasing of roofing plies will not be acceptable.



- B. Arrange work sequence to avoid use of newly completed roofing for storage, walking surface, or equipment traffic. Move equipment and material storage areas as work progresses.
- C. Allow no foot or equipment traffic over membrane until bitumen has cooled below its softening point.
- D. Repair any and all traffic-induced damage to the roof membrane the same day as the damage occurs.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Slopes and Underlying Materials
 - Use materials which are proper for the slopes and for the underlying material to which the other materials are attached.
- B. Factory Mutual Global (FMG) and Underwriters Laboratory (UL) Requirements
 - Materials must, where applicable meet the requirements of FMG and/or UL as outlined in these specifications.
- C. Abbreviations
 - 1. FMG: Factory Mutual Global
 - 2. ASTM: ASTM International
 - 3. FS: Federal Specification or Federal Standard
 - 4. SMACNA: Sheet Metal and Air Conditioning Contractor's National Association, Inc.
 - 5. SDI: Steel Deck Institute
 - 6. UL: Underwriters Laboratory, Inc.
 - 7. MSDS: Material Safety Data Sheet

2.02 ACCEPTABLE MANUFACTURERS

- A. CertainTeed Commercial Roofing, Valley Forge, PA.
- B. Firestone Building Products Company, Carmel, IN.
- C. GAF Building Materials Corporation, Wayne, NJ.
- D. Johns-Manville Corporation, Denver, CO.

2.03 ROOF MEMBRANE

- A. Ply Sheets: ASTM D 2178, Type IV, and UL Type G1 BUR, asphalt-impregnated, glass-fiber felt.
- B. Interply Adhesive:
 - 1. Type III Steep asphalt conforming to ASTM D 312.
- C. Flood coat:
 - Type III Steep asphalt conforming to ASTM D 312.
- D. Surfacing:
 - 1. 400 lbs./square of 3/8-inch to 5/8-inch gravel conforming to ASTM D 1863.

2.04 ROOF FLASHINGS

A. Backer Sheets: ASTM D 2178, Type IV, asphalt-impregnated, glass-fiber felt.



- B. Finish Flashing Sheets: ASTM D 6164 modified bitumen cap sheet Type II, Grade G.
- Glass-Fiber Fabric: Woven glass cloth, treated with asphalt, complying with ASTM D 1668, Type
 I.
- D. Flashing Adhesive:
 - 1. Type III Steep asphalt conforming to ASTM D 312.
- E. Flashing Surfacing:
 - 1. First coat: fibrated, non-asbestos, asphalt aluminum roof coating conforming to ASTM D 2824, Type III.
 - 2. Second coat: non-fibrated, non-asbestos, asphalt aluminum roof coating conforming to ASTM D 2824, Type I.

2.05 AUXILIARY ROOFING MEMBRANE MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with built-up roofing.
- B. Asphalt primer conforming to ASTM D 41.
- C. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required by roofing system manufacturer for application.
- D. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FM 4470; designed for fastening roofing membrane components to substrate; tested by manufacturer for required pullout strength; and acceptable to roofing system manufacturer.
- E. Metal Flashing Sheet: Metal flashing sheet is specified in Section 07 62 00, Sheet Metal Flashing and Trim.
- F. Miscellaneous Accessories: Provide miscellaneous accessories recommended by roofing system manufacturer.

2.06 ROOF INSULATION

- A. General: Provide preformed roof insulation boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.
- B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1.
 - 1. Install the tapered insulation system shown and described within the Construction Drawings.
- C. Cover board
 - Acceptable products:
 - a. Perlite insulation board conforming to ASTM C 728
 - 1) Thickness: 3/4"
 - b. Fiberboard: ASTM C 208 Type II, Grade 1 roof insulating board with a minimum recovered material content of 80 percent, treated with sizing, wax or bituminous impregnation. Bituminous impregnation shall be limited to 4 percent by weight when used over steel decks.
 - 1) Thickness: ½"
- D. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.



2.07 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with membrane roofing.
- B. Hot Adhesive:
 - 1. Type III Steep asphalt conforming to ASTM D 312.
- C. Insulation Cant Strips: ASTM C 208, Type II, Grade 1, cellulosic-fiber insulation board.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that:
 - Substrate is properly installed and free of foreign particles prior to installing the built-up roof system.
 - 2. Conditions are satisfactory for proper installation of the Work. Do not begin work until all unsatisfactory conditions have been corrected.
 - 3. Work of other trades penetrating the roof deck or requiring men and equipment to traverse roof deck has been completed prior to installing the built-up roof system.
 - 4. Curbs, pipe projections, sleeves, ducts, vents, nailers, and blocking as secure and acceptable for the proper installation of the built-up roof system.

3.02 PREPARATION AND CONDITIONS

- A. Raise all utility feeds and equipment to allow for eight (8) inch minimum flashing height above the surface of the new roof system.
- B. Complete all demolition, installation and/or rehabilitation of internal drainage components prior to commencing installation of the new roof system. Roof system components installed prior to completion and acceptance of work on drainage components is subject to replacement at Contractors Expense.
- C. Remove unused equipment, curbs and projections as directed by the Owner or the Consultant.
- D. Complete all roof deck repair and/or replacement throughout the anticipated working area each day prior to any built-up roof application.
- E. Complete all required carpentry work throughout the anticipated working area, each day, prior to any roof membrane application.
- F. At wall bases, expansion joints and penetrations, seal all holes, openings, cracks, and joints with mastic (and suitable joint backer, if necessary) to prevent bituminous material from penetrating into the building.
- G. Prime surface of concrete deck with asphalt primer at a rate of 3/4 gal./100 sq. ft. (0.3 L/sq. m) and allow primer to dry.
- H. Sweep area clean of all dirt and debris prior to application of the built-up roof membrane.

3.03 GENERAL WORKMANSHIP

A. All plies shall be broomed into place. Failure to broom felts during installation will be viewed as a violation of the specifications.



- B. Prevent tracking of aggregate from existing membrane into new work area where aggregate pieces can be trapped within the new roof membrane. The Contractor shall ensure that aggregate is not carried into the new work areas on workmen's shoes or equipment wheels. Discovery of entrapped aggregate within the roof membrane plies is sufficient cause for its rejection.
- C. Install roofing plies:
 - 1. Lay felts perpendicular to the slope of the roof, beginning at the lowest elevation of the roof. All felts shall be laid in shingle fashion, placed to ensure that water will flow over or parallel to, but never against, exposed felt edges.
- D. Install roofing plies in a uniform and continuous mopping of hot asphalt at the rate of 25 pounds per 100 square feet. Ply shall never touch ply, even at roof edges, laps, tapered edge strips or cants.
- E. Repair fishmouths, blisters, wrinkles, voids, ridges and other anomalies. Cut out defects and install a two-ply patch in hot asphalt over the affected area.
- F. Lap ply ends four (4) inches. Stagger ply end laps three (3) feet minimum.
- G. Roof membrane and flashings shall be installed and sealed in a watertight manner on the same day of installation or before the arrival of inclement weather.
- H. At the end of each work day, removal areas shall be sealed with water stops along edges to prevent water entry into the newly completed roof system. Glaze coat installed roofing plies at drains or valleys.
- I. Remove temporary tie-ins and water cut-off materials before proceeding with contiguous work. Overlap previous day's work by twelve (12) inches, minimum.

3.04 INSULATION INSTALLATION

- A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with roofing system manufacturer's written instructions for installing roof insulation.
- C. Insulation Cant Strips: Install and secure preformed 45-degree insulation cant strips at junctures of built-up roofing membrane system with vertical surfaces or angle changes greater than 45 degrees.
- D. Install insulation under area of roofing to achieve required thickness/slope.
 - 1. Where overall insulation thickness is 2.5 inches (50 mm) or greater:
 - Install 2 or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches (150 mm) in each direction.
 - 2. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
 - 3. Replace and refit insulation boards with gaps exceeding 1/4 inch (6 mm).
 - 4. Adhere insulation in a continuous mopping of hot asphalt.
- E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.
- F. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Stagger joints from joints in insulation below a minimum of 6 inches (150 mm) in each direction.
 - 1. Adhere cover board in a continuous mopping of hot asphalt.



3.05 ROOFING MEMBRANE INSTALLATION - GENERAL

- A. Install built-up roofing membrane system according to roofing system manufacturer's written instructions and applicable recommendations of ARMA/NRCA's "Quality Control Guidelines for the Application of Built-up Roofing."
- B. Start installation of built-up roofing membrane in presence of roofing system manufacturer's technical personnel.
- C. Cooperate with testing and inspecting agencies engaged or required to perform services for installing built-up roofing system.
- D. Coordinate installing roofing system components so insulation and roofing membrane sheets are not exposed to precipitation or left exposed at the end of the workday or when rain is forecast.
 - Provide tie-offs at end of each day's work to cover exposed roofing membrane sheets and insulation with a course of coated felt set in roofing cement or hot roofing asphalt with joints and edges sealed.
 - 2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system.
 - 3. Remove and discard temporary seals before beginning work on adjoining roofing.
- E. Asphalt Heating: Heat roofing asphalt and apply within plus or minus 25 deg F (14 deg C) of equiviscous temperature unless otherwise required by roofing system manufacturer. Do not raise roofing asphalt temperature above equiviscous temperature range more than one hour before time of application. Do not exceed roofing asphalt manufacturer's recommended temperature limits during roofing asphalt heating. Do not heat roofing asphalt within 25 deg F (14 deg C) of flash point. Discard roofing asphalt maintained at a temperature exceeding finished blowing temperature for more than 4 hours.
- F. Substrate-Joint Penetrations: Prevent roofing asphalt from penetrating substrate joints, entering building, or damaging roofing system components or adjacent building construction.

3.06 FOUR-PLY ASPHALT BUILT-UP ROOF INSTALLATION

- A. The first ply of ply sheet shall be nine (9) inches (metric 13-1/8") wide and set in hot asphalt.
- B. Starting at the lowest point of the roof deck, the second ply sheet shall be eighteen (18) inches (metric 26-1/4") wide, set in hot asphalt and laid parallel to the preceding ply.
- C. Starting at the lowest point of the roof deck, the third ply sheet shall be twenty-seven (27) inches (metric 39-3/8") wide, set in hot asphalt and laid parallel to the preceding ply sheets.
- D. Starting at the lowest point of the roof deck, the fourth ply sheet shall be thirty-six (36) inches (metric 39-3/8") wide, set in hot asphalt and laid parallel to the preceding ply sheets.
- E. Continue placing additional full-width (36") or Metric (39-3/8") ply sheets in hot asphalt, eight and one-third (8-1/3) inches or (Metric 12-7/16") from, and parallel to, the low edge of the preceding ply sheet until the edge of the roof area is reached.
- F. At the roof edge, reverse the partial-width ply sheet installation described above so that four ply sheets cover the substrate at all locations.
- G. Extend roofing ply sheets two (2) inches beyond the top edges of cants at wall and projection bases.



- H. Roof Drains: Set 30-by-30-inch (760-by-760-mm) metal flashing in bed of asphalt roofing cement on completed roofing membrane. Cover metal flashing with stripping and extend a minimum of 6 inches.
- Fit ply sheets into roof drain rims, install lead flashing and strip-in ply sheets, secure clamping rings and install strainer domes.
- J. Over the completed roof surface, after review and approval by the Consultant, apply a uniform and continuous flood coat of hot asphalt at the rate of 70 lbs. per 100 square feet. Immediately broadcast 400 lbs. of gravel per 100 square feet into the flood coat.

3.07 FLASHING INSTALLATION

- All flashing surfaces shall be smooth, dry and free of debris and obstructions.
- B. Prior to installing flashings:
 - 1. Prime flashing surface, from top of roofing felts to flashing termination point, with asphalt primer. Apply primer at the rate of 1/2-gallon per 100 square feet; adjust depending upon surface porosity; if applicable.
- C. Allow asphalt primer to dry to the touch before proceeding with installation of flashing plies.
- D. Install the backer sheets:
 - 1. Apply a uniform coating of hot asphalt to the flashing substrate.
 - 2. Immediately, while the asphalt is hot, firmly embed the backer sheets.
 - 3. Glove backer sheets into place to eliminate all voids, wrinkles, and fishmouths.
 - 4. Extend backer sheets from the flashing termination point to a minimum of six (6) inches, from the base of the cant, onto the roof surface.
- E. Install the finish flashing sheets:
 - 1. Over the installed backer sheets, apply a uniform coating of hot asphalt. Hold back mopping asphalt from adjacent finish flashing sheets to allow for hot-air welding of vertical laps.
 - 2. Glove into place to eliminate all voids, wrinkles and fishmouths.
 - 3. Extend membrane from the flashing termination point to a minimum of twelve (12) inches, from the base of the cant, onto the roof surface.
- F. Hot-air weld all vertical seams on the finish flashing sheets. Embed all mineral aggregate surfacing in seam area prior to hot-air welding.
- G. Seal the exposed leading edge of the modified bitumen flashing sheet at all metal flanges with a 3/8-inch bead of neoprene cement.
- H. Fasten the completed roof flashings, approximately 1/2-inch from the top:
 - 1. To concrete or masonry substrate:
 - a. Fasten with the specified termination bar to the substrate at twelve (12) inches on center.
 - 2. To wood substrate:
 - a. Fasten to the substrate at eight (8) inches on center, using ring-shanked nails placed through one (1) inch metal discs.
 - 3. Seal the top edge of the flashings with a three (3) course application of asphalt mastic and 3 inch (75 mm) wide fiberglass reinforcing membrane centered on the top edge of the flashings.



- I. Prior to the installation of the metal flashing components, apply two (2) coats of the specified coatings to the flashing surfaces as follows:
 - 1. Prior to flood coating the roof membrane, apply the specified first coat of aluminum roof coating at the rate of 1-1/2 gallons per 100 square feet.
 - 2. After flood coating and gravelling the roof membrane, apply the specified second coat of aluminum roof coating at the rate of 1/2 gallon per 100 square feet.
- J. Install all sheet metal flashings in accordance with the Construction Drawings, approved mockups and/or approved shop drawings.

3.08 FIELD QUALITY CONTROL

- A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report to Consultant.
 - 1. Notify Consultant and Owner in writing one week in advance of date and time of inspection.
- B. Repair or remove and replace components of roofing system where test results or inspections indicate that they do not comply with specified requirements.
- C. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.09 ADJUSTING & CLEANING

- A. Repair of deficiencies:
 - Installation or details noted as deficient during Final Review must be repaired and corrected by Contractor, and made ready for review again, within five (5) working days.
- B. Clean-up:
 - Immediately upon job completion, roof membrane and flashing surfaces shall be cleaned of all debris.
 - 2. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.
 - 3. Clean roof drains or gutters/downspouts of all debris.

3.10 ROOFING INSTALLERS WARRANTY

- A. WHEREAS <Insert name> of <Insert address>, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
 - 1. Owner:
 - 2. Address:
 - 3. Building Name/Type:
 - 4. Address: <Insert address.>
 - 5. Area of Work: <Insert information.>
 - 6. Acceptance Date: <Insert date.>
 - 7. Warranty Period: Two (2) years.
 - 8. Expiration Date: <Insert date.>



- B. AD WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,
- C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.
- D. This Warranty is made subject to the following terms and conditions:
 - 1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by:
 - a. lightning;
 - b. peak gust wind speed exceeding 55 mph;
 - c. fire:
 - d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
 - e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
 - f. vapor condensation on bottom of roofing; and
 - activity on roofing by others, including construction contractors, maintenance personnel, other persons, and animals, whether authorized or unauthorized by Owner.
 - 2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense thereof have been paid by Owner or by another responsible party so designated.
 - Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents resulting from leaks or faults or defects of work.
 - 4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void unless Roofing Installer, before starting said work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
 - 5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
 - 6. Owner shall promptly notify Roofing Installer of observed, known, or suspected leaks, defects, or deterioration and shall afford reasonable opportunity for Roofing Installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
 - 7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.
- E. IN WITNESS THEREOF, this instrument has been duly executed this <Insert day> day of <Insert month>, <Insert year>.



07 62 00

SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section

1.02 SUMMARY

- A. Section Includes:
 - Formed roof flashing and trim.

1.03 PERFORMANCE REQUIREMENTS

- A. General: Install sheet metal flashing and trim to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failing, rattling, leaking, and fastener disengagement.
- B. Thermal Movements: Provide sheet metal flashing and trim that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, hole elongation, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Provide clips that resist rotation and avoid shear stress as a result of sheet metal and trim thermal movements. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
 - Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- C. Water Infiltration: Provide sheet metal flashing and trim that do not allow water infiltration to building interior.

1.04 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

1.05 QUALITY ASSURANCE

- A. Sheet Metal Flashing and Trim Standard: Comply with SMACNA's "Architectural Sheet Metal Manual." Conform to dimensions and profiles shown unless more stringent requirements are indicated.
- B. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Section 01200 "Project Meetings."
 - 1. Meet with Owner, Consultant, Owner's insurer if applicable, Installer, and installers whose work interfaces with or affects sheet metal flashing and trim including installers of other building components.
 - 2. Review methods and procedures related to sheet metal flashing and trim.
 - 3. Examine substrate conditions for compliance with requirements, including flatness and attachment to structural members.
 - 4. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.



1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver sheet metal flashing materials and fabrications undamaged. Protect sheet metal flashing and trim materials and fabrications during transportation and handling.
- B. Unload, store, and install sheet metal flashing materials and fabrications in a manner to prevent bending, warping, twisting, and surface damage.
- C. Stack materials on platforms or pallets, covered with suitable weathertight and ventilated covering. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage.

1.07 COORDINATION

- A. Coordinate installation of sheet metal flashing and trim with interfacing and adjoining construction to provide a leakproof, secure, and noncorrosive installation.
- B. Where sheet metal flashings are incorporated into other building systems, installation shall commence concurrently with the installation of such building components to prevent delays.
- C. Where sheet metal flashings are designed to provide counter flashing, installation shall commence after the installation of other building components has been completed in accordance with the specifications.

1.08 SEQUENCING AND SCHEDULING

A. Owner will occupy portions of building immediately adjacent to work area. Conduct activities so Owner's operations will not be disrupted. Provide not less than 48 hours' notice to Owner of activities that will affect Owner's operations.

PART 2 - PRODUCTS

2.01 SHEET METALS

- A. Prefinished galvanized: AISA-G90 Extra Smooth, minimum spangle, tension leveled, hot-dipped galvanized steel conforming to ASTM A653:
 - 1. Finish shall consist of primer on both sides, minimum 0.25-mil thickness, followed by a 70% Kynar 500® resin premium fluoropolymer (PVDF) coating on one side to achieve a 1.0 mil (+/- 0.1-mil) dry-film thickness.
 - a. Manufacturer's standard color which will be selected by the Owner.
- B. Galvanized steel sheet: AISA-G90 Extra Smooth, minimum spangle, tension leveled, hot-dipped galvanized steel conforming to ASTM A653.
- C. Lead flashings:
 - 1. Drain lead flashings: four (4) pound sheet lead conforming to ASTM B29, thirty (30) inch square sheet.
 - 2. Soil stack flashings: four (4) pound sheet lead conforming to ASTM B29, minimum twelve (12) inch square base flange, or as necessary to extend five (5) inches out from stack on all sides.
- D. Termination bar:
 - 1. Extruded aluminum compression bar, 0.100-inch minimum thickness and 1-1/4 inch width, with caulking cup.



2.02 FASTENERS

- A. Unless specified otherwise in the Construction Drawings or elsewhere in the project specifications, sheet metal fasteners shall comply with this section.
- B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads:
 - Exposed Screw Fasteners: Heads matching color of sheet metal by means of plastic caps or factory-applied coating. Use only where concealed fasteners cannot be used.
 - a. Sheet Metal to Sheet Metal: Self Drilling, self-tapping, gasketed #10 Hex Washer Head sheet metal screw. Length as required for application, but no less than three threads pitches into metal.
 - b. Sheet Metal to Wood: Gasketed Hex Washer Head wood screw. Size and length as required for application but no less than #10 size and 1 inch in length.
 - c. Sheet Metal to masonry: Corrosion resistant pre-drilled gasketed masonry screws with hex washer head, minimum 3/16" thickness; length to provide embedment as required by fastener manufacturer.
 - 2. Concealed Screw Fasteners:
 - a. Sheet Metal to Sheet Metal: #10 Self Drilling, self-tapping, Phillips Pan Head sheet metal screw. Length as required for application, but no less than three threads pitches into metal.
 - b. Sheet Metal to Wood: #10 Phillips Pan Head Wood Screw. Size and length as required for application, but no less than #10 size and 1 inch in length.
 - c. Sheet Metal to masonry: Corrosion resistant pre-drilled masonry screws with hex washer head, minimum 3/16" thickness; length to provide embedment as required by fastener manufacturer.
 - 3. Nails: for use where roof edge flashing, cleats, and other flashings are fastened to wood substrate and whose nailing flanges are covered by roof materials or finish metal.
 - a. Standard round wire; minimum 12 gauge shank, smooth, barbed or deformed shank, with heads 3/8 inch (9mm) in diameter.
 - b. Length: 1.25-inches
- C. General fastener requirements (unless otherwise noted):
 - 1. Fastener types for given metal types:
 - a. Galvanized or Prepainted, Metallic-Coated Steel: Use stainless-steel fasteners.
 - b. Aluminum: Use aluminum or stainless-steel fasteners.
 - c. Stainless Steel: Use stainless-steel fasteners.
- D. Blind Fasteners: High-strength aluminum, galvanized or stainless-steel rivets.

2.03 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation.
- B. Solder for Galvanized Steel: ASTM B 32, Alloy Grade 50A, with raw muriatic acid.
- C. Sealing Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealing tape with release-paper backing. Provide permanently elastic, non-sag, nontoxic, non-staining tape.
- D. Elastomeric Sealant
 - 1. Polyurethane, ASTM C 920, Grade NS, Class 25, Type S.
- E. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required for application.



2.04 FABRICATION, GENERAL

A. General:

- Custom fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated. Shop fabricate items where practicable. Obtain field measurements for accurate fit before shop fabrication.
- 2. All finish flashings, where applicable, must be fully engaged and continuously crimped onto the underlying cleat.
- All points where the sheet metal flashing ends or transitions into a different flashing detail shall be flashed with a field-formed sheet metal closure. The use of mastic or excessive caulking shall not be acceptable.
- B. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
- C. Fabricate sheet metal flashing and trim without excessive oil canning, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hems.
- D. Sealed Joints: Form nonexpanding but movable joints in metal to accommodate elastomeric sealant to comply with SMACNA recommendations.
- E. Expansion Provisions: Where lapped or bayonet-type expansion provisions in the Work cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with elastomeric sealant concealed within joints.
- F. Conceal fasteners and expansion provisions where possible on exposed-to-view sheet metal flashing and trim, unless otherwise indicated.
- G. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.
- H. Thickness: Unless specified otherwise, as recommended by SMACNA's "Architectural Sheet Metal Manual" but not less than thickness of metal being secured.

2.05 ROOF SHEET METAL FABRICATIONS

- A. Counter flashing:
 - 1. Fabricate in minimum 96-inch (2400-mm) long, but not exceeding 10-foot (3-m) long, sections.
 - 2. Fabricate to profile shown in the Construction Drawings
 - a. Ensure counter flashing extends 3" minimum down over flashings/components below.
 - b. Overbend to ensure flashings sits tightly against flashings below.
 - 3. Fabricate from the following material:
 - a. Prefinished Galvanized: 24 gauge; 0.0249 (0.632 mm) thick
 - 4. Joint Style:
 - a. Lapped joints:
 - 1) Lap sheet metal sections 2-inches, minimum.
 - 2) At lap, notch the bottom hem of one section 2-inches to accommodate the adjacent section.
 - 3) Apply a continuous bead of sealant between lapped sections.
 - 4) Hook the overlying sheet metal flashing onto the adjacent sheet metal flashing section; creating a 2-inch minimum lap.



B. Skirt/Slip Flashing:

- Fabricate in minimum 96-inch (2400-mm) long, but not exceeding 10-foot (3-m) long, sections.
- 2. Dimensions:
 - Fabricate to the profile shown in the Construction Drawings.
- 3. Fabricate from the following material:
 - a. Prefinished Galvanized: 24 gauge; 0.0239 inch (0.607 mm) thick
- 4. Joint Style:
 - a. Lapped joints:
 - 1) Lap sheet metal sections 2-inches, minimum.
 - 2) At lap, notch the bottom hem of one section 2-inches to accommodate the adjacent section.
 - 3) Apply a continuous bead of sealant between lapped sections.
 - 4) Hook the overlying sheet metal flashing onto the adjacent sheet metal flashing section; creating a 2-inch minimum lap.

C. Penetration Flanges:

- 1. Fabricate from the following material:
 - G-90 Galvanized: 24 gauge; 0.0249 (0.632 mm) thick
- 2. Fabricate flange a minimum of 8-inches high.
- 3. Fabricate flange with a minimum 4-inches wide base flange onto roof surface, with no open joints.
- 4. At installation, join the flange sections using rivets and solder, with no open joints.

D. Umbrellas/Storm Collar:

- Fabricate from the following material:
 - a. Prefinished Galvanized: 24 gauge; 0.0239 inch (0.607 mm) thick
- 2. Fabricate as a single unit with caulking cup at top:
- 3. Fabricate to width and height necessary to overlap top of sheet metal flange below a minimum of 3-inches.

E. Penetration Pocket:

- 1. Fabricate from the following material:
 - a. G-90 Galvanized: 24 gauge; 0.0249 (0.632 mm) thick
- 2. Fabricate vertical flanges a minimum of 4-inches high/deep.
- 3. Fabricate with a minimum 4-inches wide base flange onto roof surface.
- 4. Fabricate to ensure a minimum clearance of 2-inches between pan and roof penetration(s) on all sides.
- 5. At installation, join all seams with rivets and solder to create watertight unit with no open joints.

2.06 FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast..



PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with installer present, to verify actual locations, dimensions and other conditions affecting performance of work:
 - Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
 - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

- A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system:
 - 1. Torch cutting of sheet metal flashing and trim is not permitted.
- Install exposed sheet metal flashing and trim without excessive oil canning, buckling, and tool marks.
- C. Install sheet metal flashing and trim true to line and levels indicated. Provide uniform, neat seams with minimum exposure of solder, welds, and elastomeric sealant.
- D. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
- E. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet (3 m) with no joints allowed within 24 inches (600 mm) of corner or intersection. Where lapped or bayonet-type expansion provisions cannot be used or would not be sufficiently watertight, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with elastomeric sealant concealed within joints.
- F. Seal joints with elastomeric sealant as required for watertight construction.
 - 1. Where sealant-filled joints are used, embed hooked flanges of joint members not less than 1 inch (25 mm) into sealant. Form joints to completely conceal sealant. When ambient temperature at time of installation is moderate, between 40 and 70 deg F (4 and 21 deg C), set joint members for 50 percent movement either way. Adjust setting proportionately for installation at higher ambient temperatures. Do not install sealant-type joints at temperatures below 40 deg F (4 deg C).
- G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pretin edges of sheets to be soldered to a width of 1-1/2-inches (38 mm) except where pretinned surface would show in finished Work.
 - 1. Do not solder prepainted, metallic-coated steel and aluminum sheet.
 - 2. Stainless-Steel Soldering: Pretin edges of uncoated sheets to be soldered using solder recommended for stainless steel and phosphoric acid flux. Promptly wash off acid flux residue from metal after soldering.
 - 3. Do not use open-flame torches for soldering. Heat surfaces to receive solder and flow solder into joints. Fill joints completely. Completely remove flux and spatter from exposed surfaces.

3.03 FABRICATED ROOF FLASHING INSTALLATION

A. General: Install sheet metal roof flashing and trim to comply with performance requirements, sheet metal manufacturer's written installation instructions, and SMACNA's "Architectural Sheet



Metal Manual." Provide concealed fasteners where possible, set units true to line, and level as indicated. Install work with laps, joints, and seams that will be permanently watertight.

- B. Counter Flashing: Coordinate installation of counter flashing with installation of flashing below.
 - Receiver-Mounted:
 - a. Insert counter flashing in receivers.
 - b. Secure in a waterproof manner by means of snap-in installation and sheet metal screws at 20 inches on center.

C. Skirt/Slip Flashing:

- Coordinate with installation of flashing below.
- 2. Secure in a waterproof manner with color-matched gasketed screws placed a maximum of 20 inches on center; minimum two (2) per piece.

D. Penetration Flanges

- 1. Where applicable, set flange on roof membrane in a bed of asphalt roof cement.
- 2. Fasten to substrate through the membrane.
- 3. Strip-in flanges per the requirements of the appropriate roof membrane section.

E. Umbrella/Storm Collars

- 1. Provide clamping area at the top of the umbrella for securement with a hose clamp.
- 2. Seal to pipe penetration with tooled sealant.

F. Penetration Pocket

- Where applicable, set flange of pitch pan on roof membrane in a bed of asphalt roof cement.
- 2. Fasten to substrate through the membrane.
- 3. Strip-in flanges per the requirements of the appropriate roof membrane section.

G. Termination bar:

- 1. Mechanically fasten 12-inches on center maximum.
- 2. Leave 1/8-inch space between termination bar sections.

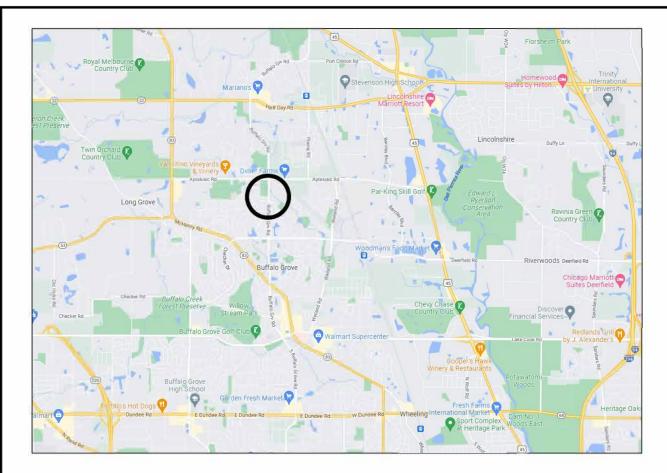
3.04 CLEANING AND PROTECTION

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean and neutralize flux materials. Clean off excess solder and sealants.
- C. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain in a clean condition during construction.
- D. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

E. Repair of deficiencies:

 Installation or details noted as deficient during Final Review must be repaired and corrected by Contractor, and made ready for review, within five (5) working days.

END OF SECTION



PROJECT: WATER WELL 7 STORAGE FACILITY - ROOF

REPLACEMENT

400 LASALLE LANE

BUFFALO GROVE, IL 60089

OWNER: VILLAGE OF BUFFALO GROVE

50 RAUPP BOULEVARD

BUFFALO GROVE, IL 60089

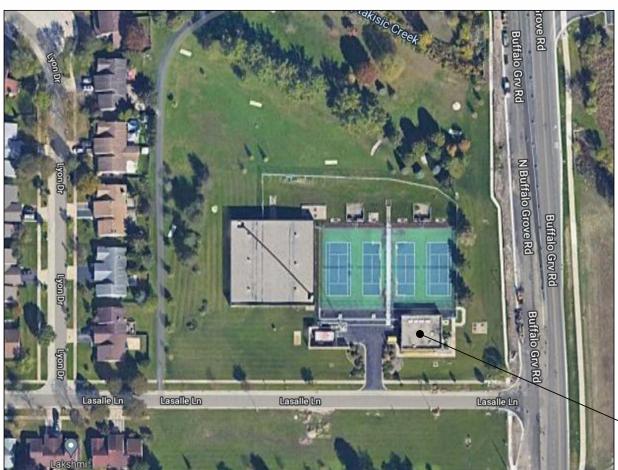
CONSULTANT: INDUSTRIAL ROOFING SERVICES

13000 WEST SILVER SPRING DRIVE

BUTLER, WISCONSIN 53007

(262) 432-0500

17925 IRS JOB #:





A0 - COVER SHEET

A4.0 - ROOF REPLACEMENT SPECIFICATION

A4.1 - TAPERED INSULATION LAYOUT

A5.0 - MEMBRANE DETAILS 1-3

A6.0 - PERIMETER DETAIL 1

A7.0 - DRAINAGE DETAIL 1

A8.0 - PENETRATION DETAILS 1-4

A9.0 - SHEET METAL DETAILS 1-3

400 LASALLE LANE, BUFFALO GROVE, IL

CONSULTANT DOES NOT WARRANTY THE ACCURAN OF THE EXISTING CONDITIONS SHOWN ON THIS DRAWING. USER SHALL FIELD VERIEFY EXISTING CONDITIONS PRIOR TO ANY WORK RELATED TO THIS BUILDIN

WILLAGE OF BUFFALO GROVE
WATER WELL 7 STORAGE FACILITY
400 LASALLE LANE, BUFFALO GROVE, IL

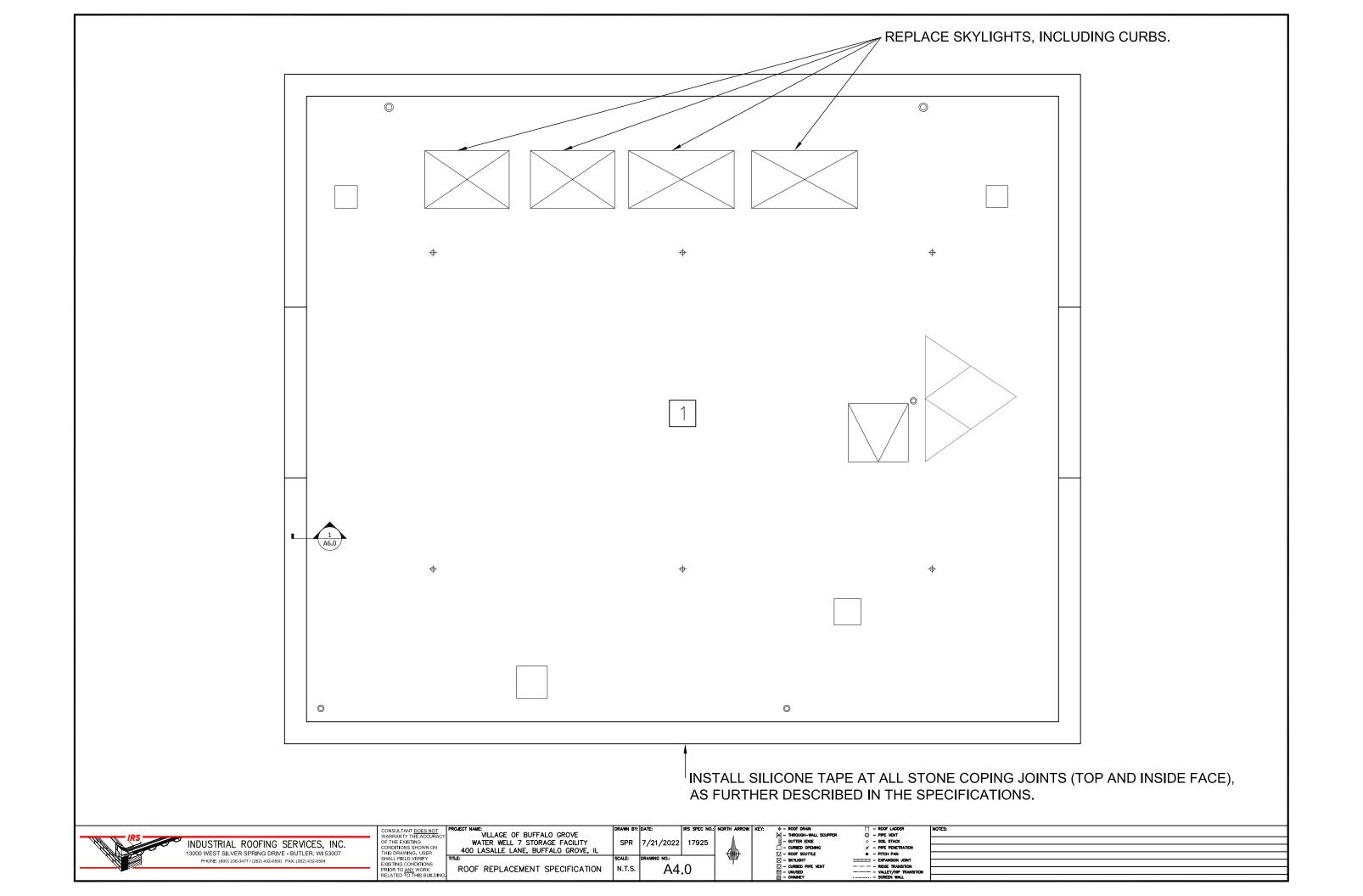
COVER SHEET

N.T.S.

7/21/2022 17925

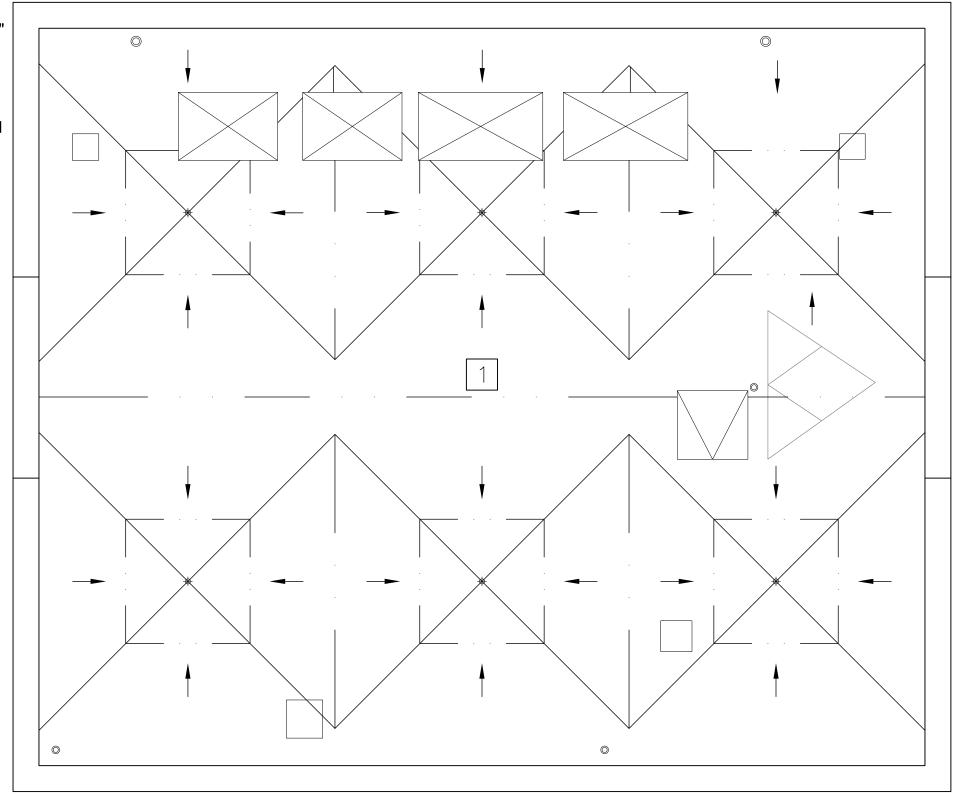
A0

EDIMENSIONS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING AND INSTALLING PRODUCTS.



4-WAY TAPERED INSULATION SYSTEM:

- INSTALL 4-WAY TAPERED POLYISOCYANURATE INSULATION SYSTEM, AS SHOWN:
 - 8'X8' SUMPS AROUND DRAINS:
 - STARTING THICKNESS AT DRAINS: 2"
 - RATE-OF-TAPER: 1/4" PER LINEAL FOOT (FROM 2" TO 3")
 - FIELD-OF-ROOF (OUTSIDE SUMP AREA)
 - STARTING THICKNESS: 3" TO MATCH SUMP
 - RATE-OF-TAPER: 1/8" PER LINEAL FOOT.
- INSTALL COVER BOARD OVER COMPLETED TAPERED POLYISOCYANURATE INSULATION SYSTEM.



CONSULTANT DOES NOT WARRANTY THE ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THIS DRAWING. USER SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK RELATED TO THIS BUILDING.

XECT NAME:
VILLAGE OF BUFFALO GROVE
WATER WELL 7 STORAGE FACILITY
400 LASALLE LANE, BUFFALO GROVE, IL

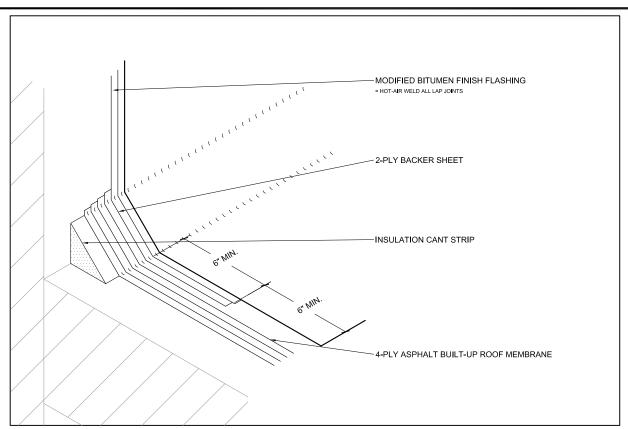
TAPERED INSULATION LAYOUT

SPR 7/21/2022 17925

SCALE: DRAWING NO.:
N.T.S. A4.1

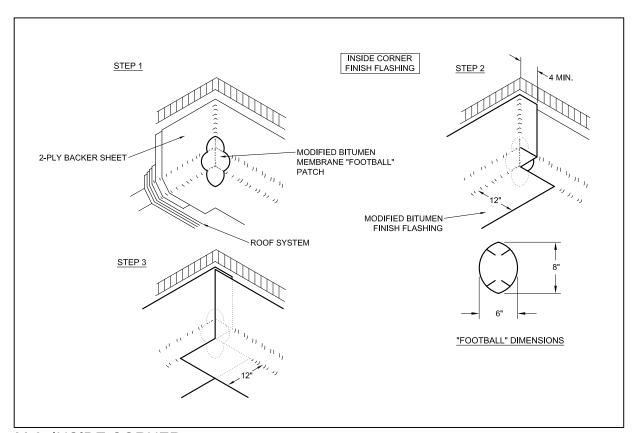


PPE VENT
 SOIL STACK
 PPE PENETRATION
 PITCH PAN
 EDPANSION JOINT
 RIDGE TRANSITION



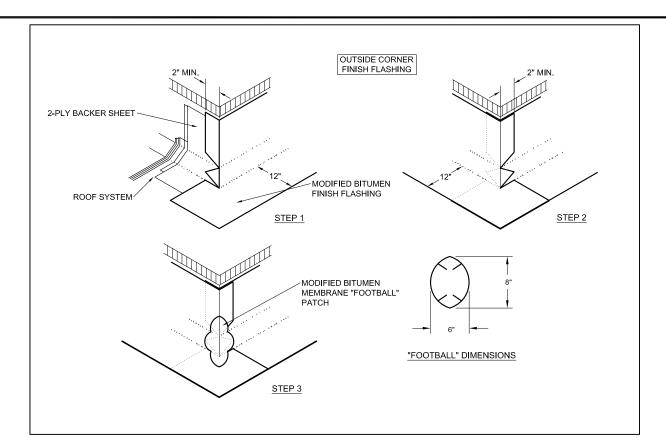
M-1: BASE TIE-IN

NOT TO SCALE



M-3: INSIDE CORNER

NOT TO SCALE



M-2: OUTSIDE CORNER

NOT TO SCALE

INDUSTRIAL ROOFING SERVICES, INC. 13000 WEST SILVER SPRING DRIVE - BUTLER, WI 53007 PHONE: (800) 236-3477 / (262) 432-0500 FAX: (262) 432-0504

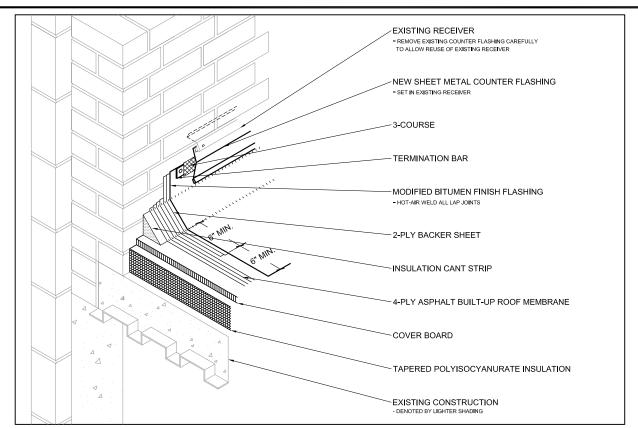
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NECT NAME:
VILLAGE OF BUFFALO GROVE
WATER WELL 7 STORAGE FACILITY
400 LASALLE LANE, BUFFALO GROVE, IL MEMBRANE DETAILS

N.T.S.

SPR 7/21/2022 17925

A5.0



P-1: TERMINATION @ PARAPET WALL

NOT TO SCALE

CONSULTANT DOES NOT WARRANTY THE ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THIS DRAWING. USER SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK RELATED TO THIS BUILDING

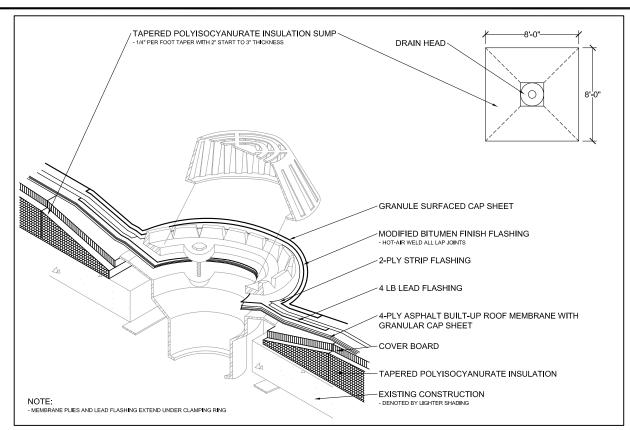
NECT NAME:
VILLAGE OF BUFFALO GROVE
WATER WELL 7 STORAGE FACILITY
400 LASALLE LANE, BUFFALO GROVE, IL

SPR 7/21/2022 17925

PERIMETER DETAILS

N.T.S.

A6.0



D-1: ROOF DRAIN

NOT TO SCALE

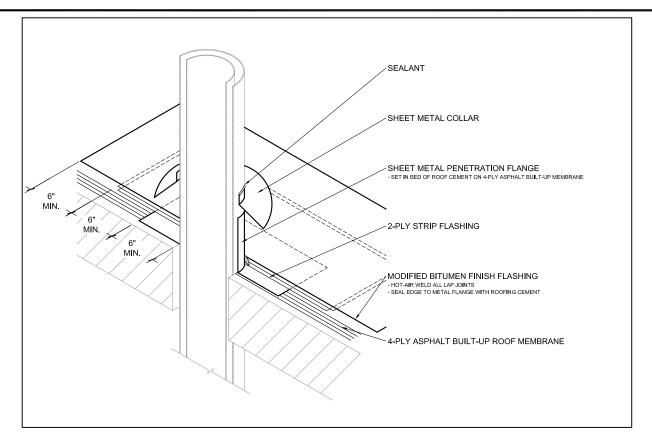
CONSULTANT DOES NOT WARRANTY THE ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THIS DRAWING, USER SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO AMY WORK RELATED TO THIS BUILDING.

NECT NAME:
VILLAGE OF BUFFALO GROVE
WATER WELL 7 STORAGE FACILITY
400 LASALLE LANE, BUFFALO GROVE, IL

DRAINAGE DETAILS

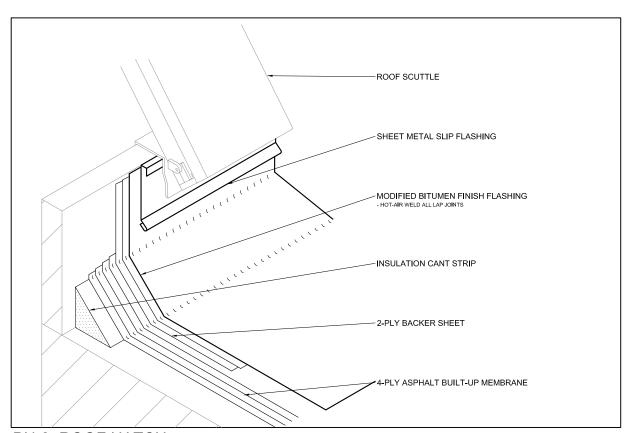
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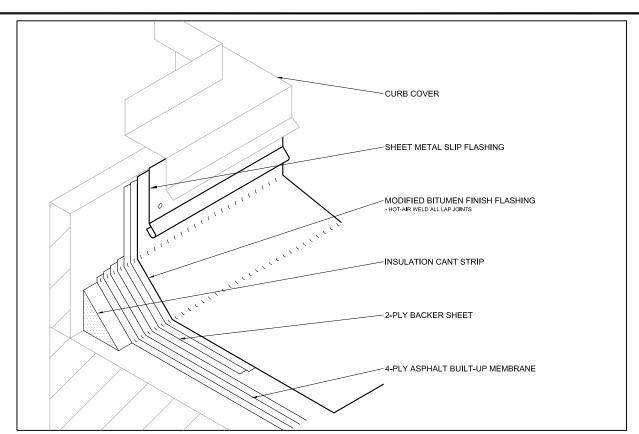


PN-1: HOT STACK

NOT TO SCALE

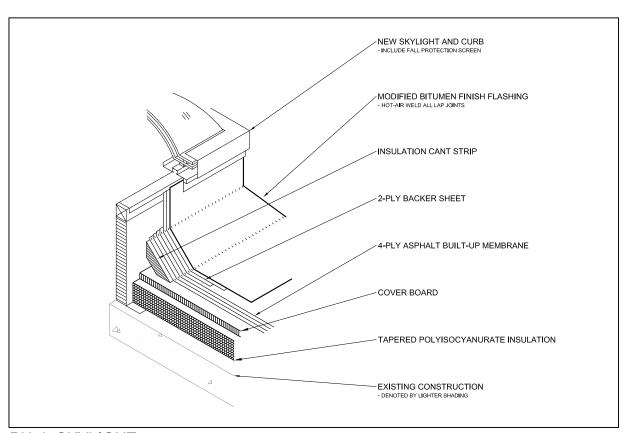


PN-3: ROOF HATCH NOT TO SCALE



PN-2: CURB OR RAIL WITH SLIP FLASHING

NOT TO SCALE



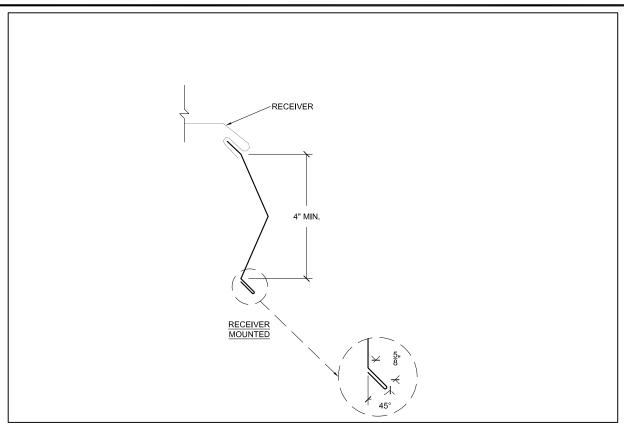
PN-4: SKYLIGHT

NOT TO SCALE

INDUSTRIAL ROOFING SERVICES, INC. 13000 WEST SILVER SPRING DRIVE - BUTLER, WI 53007 PHONE: (800) 236-3477 / (262) 432-0500 FAX: (262) 432-0504

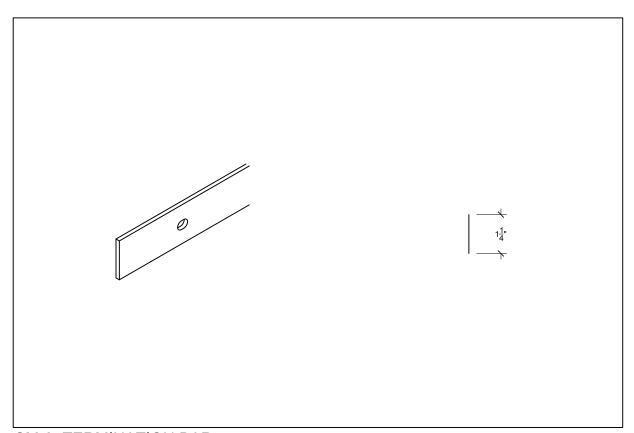
CONSULTANT DOES NOT WARRANTY THE ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THIS DRAWING. USER SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK RELATED TO THIS BUILDING.

VILLAGE OF BUFFALO GROVE
WATER WELL 7 STORAGE FACILITY
400 LASALLE LANE, BUFFALO GROVE, IL 7/21/2022 17925 A8.0 PENETRATION DETAILS N.T.S.



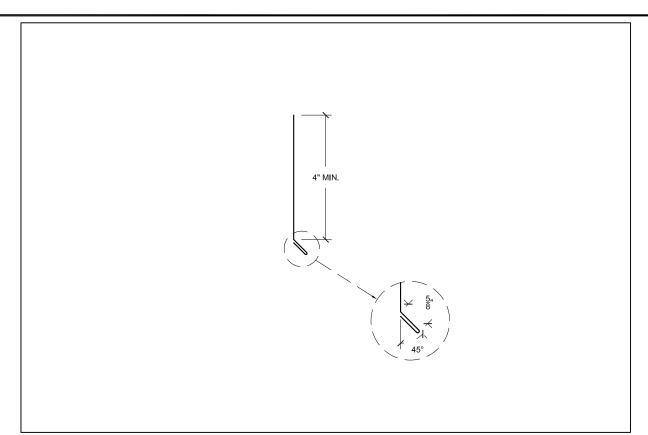
SM-1: BENT COUNTER FLASHING PROFILE

NOT TO SCALE



SM-3: TERMINATION BAR

NOT TO SCALE



SM-2: SLIP FLASHING PROFILE

NOT TO SCALE

CONTRACT EXHIBIT B – SCHEDULE OF PRICES

[Schedule of Prices]

EXHIBIT A - PUBLIC CONTRACT STATEMENT

This Public Contract Statement (the "Contract Statement") has been executed by the below supplier, contractor or vendor (collectively the "Contractor") in order for the Village of Buffalo Grove to obtain certain information necessary prior to awarding a public contract. The Contract Statement shall be executed and notarized and submitted as part of the Bid Proposal.

CERTIFICATION OF CONTRACTOR/BIDDER

In order to comply with 720 Illinois Compiled Statutes 5/33 E-1 et seq., the Village of Buffalo Grove requires the following certification be acknowledged:

The Contractor certifies that it is not barred from bidding or supplying any goods, services or construction let by the Village of Buffalo Grove with or without bid, due to any violation of either Section 5/33 E-3 or 5/33 E-4 of Article 33E, Public Contracts, of the Chapter 720 of the Illinois Compiled Statutes, as amended. This act relates to interference with public contracting, bid rigging and rotating, kickbacks, and bidding.

CERTIFICATION RELATIVE TO 65 ILCS 5/11-42.1.1

In order to comply with 65 Illinois Complied Statutes 5/11-42.1.1, the Village of Buffalo Grove requires the following certification:

The Contractor does hereby swear and affirm that it is not delinquent in the payment of any tax administered by the Illinois Department of Revenue unless it is contesting such tax in accordance with the procedures established by the appropriate revenue act, its liability for the tax or the amount of the tax. The undersigned further understands that making a false statement herein: (1) is a Class A misdemeanor, and (2) voids the contract and allows the Village to recover all amounts paid to it under the contract.

CONFLICT OF INTEREST

The Village of Buffalo Grove Municipal Code requires the following verification relative to conflict of interest and compliance with general ethics requirements of the Village:

The Contractor represents and warrants to the Village of Buffalo Grove as a term and condition of acceptance of their Bid Proposal that none of the following Village officials is either an officer or director of Contractor nor owns five percent (5%) or more of the Contractor: the Village President, the members of the Village Board of Trustees, the Village Clerk, the Village Treasurer, the members of the Zoning Board of Appeals and the Plan Commission, the Village Manager and his/her Assistant, or the heads of the various departments within the Village.

the various departments within the Village.

If the foregoing representation and warranty is inaccurate, state the name of the Village official who either is an officer or director of your business entity or owns five percent (5%) or more thereof:

A-1 Roofing Company

IN WITNESS WHEREOF, the below Contractor has signed and sealed this Contract Statement as of this 25thday of August

A-1 Roofing Company

Print Name of Contractor

Signature

Estimator/ Project Manager/ Field Superintendent

Print Title

Given under my hand and official seal, this 25th day of August

20 22.

Roof Replacement Proj

CHRISTINA SHEPPARD
OFFICIAL SEAL
OFFICIAL SEAL
State of Illinois
My Commission Expires
July 29, 2023

Notary Public

EXHIBIT B - SCHEDULE OF PRICES

Name of Bidder:				
A-1 Roofing Con		tion Number		
No. 104-00009		non Number.	In State of	Illinois
Address of Bidde				IIIIIIOIS
1425 Chase Ave				<u> </u>
CityElk Grove V 847-952-3600	illage	State IL	Zip <u>60007</u>	Telephone
Email Address:	bradrabin@a1	roofing.com		
regulations affecting supervision, tools, complete said work. Bidder further decling the same form a changes to the Contract. If this bid is acceptor and the same same same same same same same sam	ng performance of material, equipmed. ares that if their I has set forth in the atract by submitting the pted, and the under required by the in (10) calendar deletermine that the f shall be null a	Bid Proposal is access Bid and Contracting with this Scheduler Contract, and (ii) ays after the date of the bidder has abandoud void, and such	epted, that Bidder van Documents. How ule of Price a list of the award of the assecurity accomp	s, Ordinances, rules and rnish all labor, mechanics, I incidentals necessary to will enter into the Contract rever, Bidder may request f requested changes to the foresaid, (ii) provide the trance required under the Contract then the Village, thereupon this Bid and the penalty, but as liquidated
BID SECURITY				
Accompanying this	Bid is a copy of _	Bid Bond		
in the amount of	10%			_ Dollars
(\$).			
the case may be.		Draft", "Cashier's o at least ten percei		Check" or "Bid Bond", as al Base Bid.

Roof Replacement Project Well House 7

EXHIBIT B - SCHEDULE OF PRICES (cont.)

BASE	9.00
One Hundred Six Thousand Six Hundred Nine	dollars
CONSTRUCTION ALLOWANCE: (Funding of Unit Price Items)\$	5,000.
MATERIAL PRICE CHANGE ALLOWANCE:	
(See Section 01 30 00 "Alternates, Allowances and Substitutions")\$	5,000.0
Total Base Bid (Base Bid + Allowances) \$_	116,609.00
UNIT PRICING	

Replace cast-iron roof drain head, including all interior piping, insulation and accessories (per drain)

TIME & MATERIAL RATE

1.

BID PRICES

1.	For repair of latent conditions or additional work: Time (per man-hour)	\$_	141.00				
	Material (Contractor cost)		plus_	20	%		

CONSTRUCTION SCHEDULE

The Undersigned agrees to commence the Work in 90 Calendar days after Contract Award (pending material availability) and to complete the Work in 20 calendar days thereafter.

2,750.00

EXHIBIT B - SCHEDULE OF PRICES (cont.)

CERTIFICATION

- The Bidder acknowledges receipt of:
 a. The Project Manual for the above-referenced Project.
 b. The Project Drawings for the above-referenced Project.
 c. Addenda numbered 1 , and ...
- 2. The Bidder agrees:
 - a. To hold this Bid open for ninety (90) calendar days after the Bid due date.
 - b. To enter into and execute a Contract if awarded on the basis of the Bid and to furnish all bonds and insurance required in the Bidding Documents.
 - c. To accomplish the Work in accordance with the Contract Documents.
 - To comply with requirements outlined in attached Contract between Owner/Contractor; if applicable.

EXHIBIT B - SCHEDULE OF PRICES (cont.)

SUBCONTRACTOR LISTING

Bidder, to employ the following listed subcontractors for the following enumerated classes of work and is not to alter or add to such list without the written consent of the Village.

SUBCONTRACTOR	CLASS OF WORK
Another Plumbing Company	Plumbing
ACVNOWI ED	GEMENT OF ADDENDA
Acknowledgement of receipt of Addenda(s) 1	(list each addendum number)
Attach each signed adderidam,	, if any, to the bid packet as part of your submittal.
CONTRACTOR SIGNATU	URE and CONTACT INFORMATION
8/25/2022	JRE and CONTACT INFORMATION 847-952-3600 Phone
8/25/2022	847-952-3600
8/25/2022 Date A-1 Roofing Company	847-952-3600 Phone bradrabin@a1roofing.com
8/25/2022 Date A-1 Roofing Company	847-952-3600 Phone
8/25/2022 Date A-1 Roofing Company	847-952-3600 Phone bradrabin@a1roofing.com
8/25/2022 Date A-1 Roofing Company Legal Entity	847-952-3600 Phone bradrabin@a1roofing.com
8/25/2022 Date A-1 Roofing Company Legal Entity	847-952-3600 Phone bradrabin@a1roofing.com



INITIAL MATERIAL PRICE DECLARATION SPREADSHEET

Bidders who wish to potentially utilize the Material Price Change Allowance shall submit this form in conjunction with their bid form.

Bidder shall list any material(s) for which they intend to potentially claim a future cost change, and provide the dollar amount for said material, that the bid is based on.

Bidders must also submit <u>Detailed Evidence of Material Cost (supplier quotes)</u>, matching the dollar values shown below.

Material(s)	Dollar Value
Blueridge 1/2" HD Woodfiber 4x4 Red Primed	\$ \$37.40/square
Firestone UltraFlash One-Part Liquid Flashing	\$ \$100.76/gal
Firestone Ultraflash Fabric 12"x100 yd	\$ 107.37/roll
1.25" Coated Drive Pins	\$ 690.80/box
Asphalt, Type III	\$ 66.33/CTN
SBS Premium FR	\$ 102.00/roll
Firestone Ply IV	\$ 95.76/roll
Firestone Tapered Insulation	\$ 8,900.00/kit
4" Woodfiber cant strip	\$ 80.20/bndl
Firestone Termination Bar	\$ 17.43/pc
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	\$



Commercial Services

630.790.3400 - Carol Stream cschicago@becn.com

Job Name: Well House 7 Storage Facility

Location: Buffalo Grove

Bid Date: 8/18/22

Ship Via: Beacon Warehouse

Job Size: 27 sq

QTY		DESCRIPTION	PAC	KAGING	MFG PART#		SECTION	MFG	S	ELL PRI	CE
27	SQ	1/2" HD Woodfiber 4X4 Red Primed	90	pc/unit	48	unit/tl	WOODFIBER	BLUERIDGE	\$	37.40	SQ
1	BDL	4" WOODFIBER CANT	120	LF/BDL	2,880	LF/PLT	WOODFIBER	Lucas Sales	\$	80.20	BDL
1	EA	UltraFlash One-Part Liquid Flashing - 1gal	2	CAN/BX	W70UFLF08B		Asphalt Adh. & Cem.	FIR	\$	100.76	EA
1	RL	UltraFlash Fabric 12" X 100 yd	1	RL	W70UF12300		Asphalt Adh. & Cem.	FIR	\$	107.37	RL
1	CTN	Coated Drive Pins 1-1/4"	1000	PAIL	W56RAC4250	Fastene	ersMason. Anchors	FIR	\$	690.80	CTN
1	PC	Termination Bar	50	PCS/CTN	W56RAC3061	Ter	m/Batten/Drain Bars	FIR	\$	17.43	PC
1	CTN	ASPHALT TYPE III , IV	18	CTN/PLT	CURRENT		Asphalt	TRUMBULL	\$	66.33	CTN
6	RL	SBS Premium FR Black/White	20	RL/PLT		1 SQ	SBS	FIR	\$	102.00	RL
24	RL	Ply IV (4) M Felt	25	RL/PLT	W70RAC8740	5 SQ	BUR	FIR	\$	95.76	RL

- Price Provided is Current and will be Re-Priced at time of delivery
- Quantities, if listed, are estimates only. Beacon will not be responsible for overages or shortages based on quantities provided
- Plus Freight, Fuel Surcharges, and Hazmat fees and Deficit Freight unless otherwise noted
- It is the Contractor's responsibility to review Specification and Plans for accuracy
- The Above Job Pricing Does Not Apply to Fill in Orders Delivered or Picked up
- Non-Stock Items, Special Order Material cannot be returned to a Beacon Facility
- Subject to material availability at time of shipment
- Due to current volatility of the market, expect extended lead times and missed loads

DATE: 8/18/22

FILE NAME: 8 Well House FS

QUOTED BY: T ROMA

QUOTE EXPIRES: 9/17/22

** THIS QUOTE WILL EXPIRE ON THE DATE INDICATED AND CAN NOT BE EXTENDED WITHOUT WRITTEN APPROVAL **



"Distinction Through Excellence"

BEACON Quotation 323 COMMERCE DRIVE PHONE: 630-790-3400 CAROL STREAM, IL FAX: 630-790-3434 JOB NAME: WELL HOUSE #7 BID DATE: UNKNOWN LOCATION: BUFFALO GROVE, IL JOB DATE: **SEPT. 15 2022** ARCHITECT: UNKNOWN QUANTITY UOM DESCRIPTION PRICE THROUGH | MANUFACTURER 1 KIT TAPERED POLYISO SYSTEM (20 PSI MINIMUM- STANDARD POLYISO WITH GLASS- MAT FIBER FACERS ON **BOTH MAJOR SURFACES**) 1/8" PER FOOT SLOPE 3" TOTAL LOW POINT (TOTAL LOW POINT INCLUDES 2" BASE LAYER AND 1" TAPERED LOW POINT) 1/4" PER FOOT SADDLES 1/4" PER FOOT TAPERED DRAIN SUMPS DRAIN SUMPS TO MEASURE 2" LOW POINT- 3" HIGH POINT X 8'-0" X 8'-0" SIZE) (AVERAGE R VALUE- 18.90) **APPROX. 26 SQS. TAPERED** APPROX. 0 SQS. FILL APPROX. 1 SQS. SADDLES APPROX. 4 SQS. DRAIN SUMPS \$8,900 APPROX. 26 SQS. BASE SEPT 15 2022 **FIRESTONE** **0.3 TRUCKLOADS OF MATERIAL IN THIS TAPERED SYSTEM. Comments: SEE ATTACHED SKETCH FILE NAME: 8TWELL 7

Prices subject to change without notice **

QUOTED BY: TODD MILNE

DATE: 8/18/2022

BEACON

Quotation

323 COMMERCE DRIVE

PHONE:

FAX:

630-790-3400 630-790-3434

CAROL STREAM, IL

JOB NAME: WELL HOUSE #7

LOCATION: BUFFALO GROVE, IL

