

JACQUELINE M. IZZO  
MAYOR



ZACHARY CORTESE  
PURCHASING AGENT

**PURCHASING DEPARTMENT**  
ROME CITY HALL ♦ 198 N. WASHINGTON STREET  
ROME, NEW YORK 13440-5815  
(315) 339-7665 ♦ FAX (315) 838-1165  
[zcortese@romecitygov.com](mailto:zcortese@romecitygov.com)  
[www.romenewyork.com](http://www.romenewyork.com)

**PROPOSAL NUMBER: RFP-2019-024**  
**PROPOSAL TITLE: CONSTRUCTION OF NEW SALT STORAGE FACILITY**  
**PROPOSAL OPENING: 8/2/2019 3:00 PM (local time)**

**COMPANY NAME:** \_\_\_\_\_

**MAILING ADDRESS:** \_\_\_\_\_

\_\_\_\_\_

**PHONE:** \_\_\_\_\_

**FAX:** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

**WEBSITE:** \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_

**PRINTED NAME/TITLE:** \_\_\_\_\_

**TOTAL COST OF PROJECT: \$** \_\_\_\_\_

**TOTAL COST OF PROJECT IN WORDS: \$** \_\_\_\_\_

**PROPOSER'S WARRANTY:** The above-signed person by his/her affixed signature certifies that he/she is an officer of the organization. He/she has been specifically authorized to offer a proposal in full compliance with all requirements and conditions, as set forth in this Proposal, other than those deviations noted above. He/she has fully read and understands the Proposal and has full knowledge of the scope, nature, quantity, and quality of work to be performed and that he/she has carefully examined and checked the materials, equipment, labor, service, and cost thereof, and hereby states that the amount or amounts set forth in the proposal is or are correct. The bidder further agrees not to make claim for reformation, modification, or correction of this proposal after the scheduled closing time for receipt of proposal bids.

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## **INVITATION AND INSTRUCTIONS TO BID**

The City of Rome, New York invites your firm to participate in the enclosed Request For Proposal for:

**PROPOSAL NUMBER: RFP- 2019-024**

**PROPOSAL TITLE: CONSTRUCTION OF NEW SALT STORAGE FACILITY**

This sealed quote will be due:

**PROPOSAL OPENING: 8/2/2019 3:00 PM (local time)**

Proposer's Warranty Form, Responsible Bidder Form and Non-Collusive Statement must be completed and signed and returned with proposal.

**Bid must be covered by Money Order, Certified Check, or Bid Bond in the amount of 5% of the amount of the total bid.**

Sealed bids must be clearly marked with the bid number and title and sent to the address below, where they will be time-stamped, local time to:

**RFP-2019-024  
Clerk's Office  
Rome City Hall  
198 North Washington Street  
Rome, NY 13440**

If additional information is required, please contact:

**Zach Cortese, Purchasing Agent  
City of Rome  
198 North Washington Street  
Rome, NY 13440  
Phone: 315-339-7665  
Fax: 315-838-1165**

**Tom Jones, Superintendent of Streets  
City of Rome  
132 Race St.  
Rome, NY 13440  
Phone: 315-534-0485**

Email: [zcortese@romecitygov.com](mailto:zcortese@romecitygov.com) OR [tjones@romecitygov.com](mailto:tjones@romecitygov.com) , electronically at [www.romenewyork.com](http://www.romenewyork.com); click on Purchasing Department; Bid Opportunities.

**The City of Rome, New York, reserves the right to reject any or all proposals or to accept any bid deemed to be in its best interest.**



# Construction of New Salt Storage Facility 2019

## General Conditions

### SCOPE OF SERVICES

The City of Rome, NY (City) is seeking a contractor to design and construct a permanent rectangular shape tension membrane covered truss type building. The structure shall meet or exceed the performance criteria of this specification.

### QUESTIONS REGARDING SPECIFICATIONS:

Questions must be directed to the Purchasing Agent, Zach Cortese at [zcortese@romecitygov.com](mailto:zcortese@romecitygov.com) or (315) 315-339-7665 or Tom Jones (315)-534-0485, [tjones@romecitygov.com](mailto:tjones@romecitygov.com)

### TAX:

Purchases by the City of Rome, New York, are not subject to any sales tax, federal excise tax or transportation tax.

### FINANCE CHARGES:

The City of Rome will not be subjected to finance or late charges under this contract.

### PRICE AND PRICE ADJUSTMENTS

Unless otherwise stated in this document, at no time during the term of any contract arising from an award by the City of Rome may any of the contract pricing be changed for any reason without written approval by the City. All pricing shall remain firm for the first six months from the date of award. Once, per each twelve-month period the vendor or the city may request a price adjustment. The vendor shall give the City a minimum of thirty (30) calendar days notification of any request for a price adjustment. Said adjustment may at no time exceed the Consumer Price Index for all items as calculated by the City of Rome Purchasing Department. Should the City deem the requested adjustment unacceptable, the City Reserves the right to terminate the contract in accordance with the terms of the bid and seek pricing from whatever sources legally available.

### DURATION OF PROPOSAL OFFER:

Proposals are irrevocable for a period of sixty (60) calendar days following the closing date of this bid proposal

## **METHOD OF AWARD**

In comparing proposals, comparison will not be confined to price only. The successful proposer will be one whose product is judged as best serving the interests of The City by way of product, quality, delivery and price. The City also reserves the right to reject any or all proposals or any part thereof, and to waive any minor technicalities. A contract will be awarded to the proposer submitting the best responsible proposal meeting the product requirements.

## **ACCEPTANCE OR REJECTION:**

The City of Rome Board of Estimate and Contract reserves the right to accept or reject any or all bids received.

## **TIME IS OF THE ESSENCE:**

All times stated herein are of the essence.

## **NOTICE OF DELAY:**

If the successful bidder encounters difficulty in meeting performance requirements or has knowledge of a possible delay, the vendor shall immediately notify the Purchasing Agent, preferably in writing. A slippage will require the vendor to demonstrate an alternate means of recovering the anticipated or actual delay in contract performance.

## **GUARANTEE/WARRANTY**

The bidder must guarantee that the equipment offered is a model of regular stock product, with parts regularly used for this type of equipment offered; also, that no attachment or part has been substituted or applied contrary to manufacturer's recommendations or standard practices. The unit delivered must be warranted against faulty materials and workmanship for a period that should such faults develop, the bidder agrees to replace/repair the unit or part affected without cost to the City of Rome, New York, with all replacement parts paid for by the contractor.

## **INSURANCE**

The City of Rome New York requires general liability coverage in the amount of \$1,000,000 each occurrence /\$2,000,000 general aggregate, with The City of Rome, New York as certificate holder and additional insured. The accepted form of proof is ACORD 25 (2009/09) – Certificate of Liability Insurance.

For workers' Compensation and Disability Benefits insurance, please use forms C-105.2, U-26.3 or DB120.1, respectively. Information on these forms are located at website (<http://www.wcb.state.ny.us/content/main/Forms.jsp>).

Forms must be signed by an authorized representative of the insurer. All policies must provide for written notice to the City of Rome to be delivered in accordance with the policy provisions. All forms may be completed by your agent/broker, do not require notarization and will be accepted electronically when sent directly from your agent/broker.

<p><b>C-105.2</b> (9/07)</p>	<p>Certificate of NYS Workers' Compensation Insurance Coverage (All private NYS licensed workers' compensation carriers are required to issue the C-105.2. Please note that the State Insurance Fund issues a different form, the U-26.3 form, as its version of the C-105.2)</p>	<p>Employers insured for workers' compensation through a private insurance carrier</p>	<p>Filed with any entity requesting to be a certificate holder including a government agency issuing a permit, license or contract. The C-105.2 must be completed by the insurance carrier or its licensed insurance agent.</p>	<p><u>Employers must obtain this form from either their NYS workers' compensation insurance carrier or a licensed NYS insurance agent of that carrier.</u></p> <p>Carriers, their licensed agents, and Self-Insured Employers may email the Board at <a href="mailto:Certificates@wcb.ny.gov">Certificates@wcb.ny.gov</a> to obtain controlled forms not available on this website.</p>
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<p><b>DB-120.1</b> (5/06)</p>	<p>Certificate Of Insurance Coverage Under The NYS Disability Benefits Law</p>	<p>Employers insured for NYS statutory disability benefits insurance through an insurance carrier.</p>	<p>Filed with any entity requesting to be a certificate holder including a government agency issuing a permit, license or contract. The DB-120.1 must be completed by either the NYS statutory disability benefits insurance carrier, or a licensed NYS insurance agent of that carrier.</p>	<p><u>Employers must obtain this form from either their NYS statutory disability benefits insurance carrier or a licensed NYS insurance agent of that carrier.</u></p> <p>Carriers, their licensed agents, and Self-Insured Employers may email the Board at <a href="mailto:Certificates@wcb.ny.gov">Certificates@wcb.ny.gov</a> to obtain controlled forms not available on this website.</p>
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<p><b>CE-200</b> (12/08)</p> <p>(Replaces WC/DB-100 and Form C-105.21)</p>	<p>Certificate of Attestation of Exemption from NYS Workers' Compensation and/or Disability Benefits Coverage</p>	<p>Applicants for permits, licenses or contracts from State, county or municipal agencies in New York State that are not required to carry NYS workers'</p>	<p>Please file with the government agency that is issuing the permit, license or contract. (Examples: The New York City Department of</p>	<p>These exemption forms can <u>ONLY</u> be used to attest to a government entity that an applicant requesting a permit, license or contract from that <u>government</u> entity is not required to carry <u>NYS</u> workers'</p>
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		compensation and/or disability benefits insurance coverage.	Buildings or the New York State Department of Health)	compensation and/or disability benefits insurance. ( <a href="#">Instructions</a> )
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**MINORITY BUSINESS ENTERPRISE PARTICIPATION:**

1. Minority and women-owned business enterprises are encouraged in the performance of all City material, supply, professional and construction contracts and sub-contracts;
2. A “minority business enterprise” is defined as a business firm which is at least fifty-one percent (51%) owned by minority group members. The minority ownership must exercise actual day-to-day management and control of the business.
3. “Minority” means Blacks, Hispanics, American Indians, Alaskan Natives, Asians and Pacific Islanders.
4. A “women-owned business enterprise” is defined as a business firm which is at least fifty-one percent (51%) owned by women. The women ownership must exercise actual day-to-day management and control of business.
  5. Bidders are requested to provide the following:
    - a. Is your company 51% or more women owned? yes no
    - b. Is your company 51% or more minority owned? yes no
    - c. If you answer YES to Number 2, check one of the following:  
 African  Hispanic  Alaskan Native  
 Asian/Pacific Islands  American Indian

**CONTRACT TERMINATION:**

The City may terminate for cause if the vendor fails to perform any material condition of the contract and such failure continues unremedied for thirty (30) days after receipt of notice from the City.

**LIMITATIONS:**

1. Neither the vendor nor its affiliates shall be liable in any way for delay, failure in performance, loss damage due to any of the following conditions: fire, explosion, power blackout, earthquake, flood, the elements, civil or military authority, or acts of God.



2. The vendor shall be liable for any delay, loss, and property damage attributable to any service or actions of any of its employees or agents.

**GENERAL:**

1. Any modification or waiver of any provision of the Contract must be in writing and signed by authorized representatives of both parties.
2. If any term or provision of the contract shall be held invalid or unenforceable, the remainder of the contract shall not be affected.
3. The waiver by either party of any breach of the Contract by the other party will not operate as a waiver of subsequent breaches of the same or different kind.

**DEVIATIONS FROM SPECIFICATIONS:**

Bidders must itemize all deviations to the specifications on the attached Deviations Sheet. If this is not sufficient space, attach additional sheets as required. A statement referring to manufacturer's literature or specifications without stating the actual deviation thereon will be cause for disqualification. Unless otherwise stated by the bidder on the attached sheet provided, the proposal will be considered as being in strict accordance with the specifications outlined herein, even though the manufacturer's literature indicated deviations from the City's specifications.

**PROTEST AND APPEAL PROCEDURES:**

1. Protests regarding the validity or appropriateness of the specifications or of the Request for proposal shall be filed in writing with the City Clerk no later than two (2) days prior to the closing of the bids. The address to submit the protest is:

City Clerk  
City of Rome  
198 N. Washington St.  
Rome, New York 13440

2. Such protests will not be considered if received later than the date established in paragraph above.
3. Protests shall be explicit and in sufficient detail to stand on their own record.
4. Post-award protests shall be in writing in a diligent and timely fashion and to be received in the City Clerk's Office no later than five (5) days after receipt of the award notice.

## **TECHNICAL SPECIFICATIONS**

- The City of Rome is seeking all-inclusive turnkey Lump-Sum bid for the design and construction of a new salt storage facility.
- Contractor to provide foundation design and engineering, cast-in-place concrete foundations, precast bulk material bunker, 12'-0" high, grade beams, and Fabric storage structure.
- The City is soliciting designs that separate fabric structure from bunker storage per the attached basis of bid.
- Minimum of 80'-wide x 84'-long, one-ended building to store salt approximately 4,000 tons of road salt.
- Building to have a minimum interior clearance window from finished floor to the underside of any truss of 30 feet wide and 37 feet tall as shown in the drawing including foundation to allow for dump trailers to operate without collision.
- Building to be mounted on engineer designed pad/pier combination that are maximum of two feet above finished floor.
- A precast concrete bunker, minimum of 70 feet wide, 80 feet long and 12 feet tall (3-sided) must be installed on the interior of the building to contain salt stockpile – separate from the building foundation.
- Contractor must provide engineered, stamped drawings for building and foundation by a professional engineer licensed in the state of New York.
- Work must be completed in 120 days after notice to proceed.
- The City reserves the right to award contract to lowest, most responsible bidder.

### **DESCRIPTION**

Provide design and construction for a permanent rectangular shape tension membrane covered truss type building. The structure shall meet or exceed the performance criteria of this specification.

The City of Rome, NY (here after, "The City") has evaluated different styles of Fabric Structures and has determined that this published specification is best suited for The City's needs in terms of quality and features. This specification shall not be interpreted as restrictive but rather as a measure of quality and performance against which all other Fabric Structures will be compared.

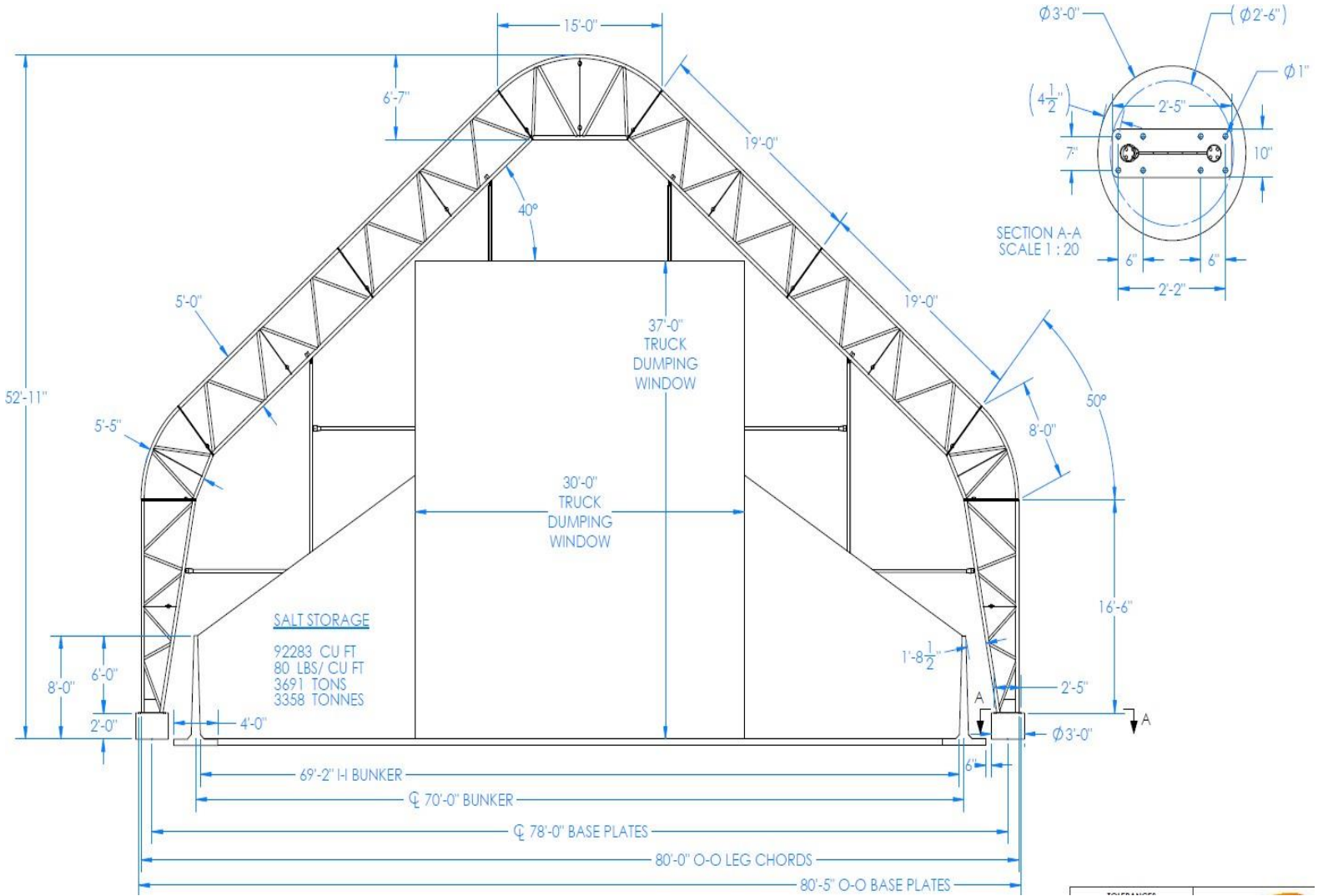
In comparing proposals, comparison will not be confined to price only. The successful proposer will be one whose product is judged as best serving the interests of The City by way of product, quality, delivery and price. The City also reserves the right to reject any or all proposals or any part thereof, and to waive any minor technicalities. A contract will be awarded to the proposer submitting the best responsible proposal meeting the product requirements.

The specification herein states the minimum requirements of The City. All proposals must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The City will consider as irregular or non-responsive any and all proposals that are not prepared and submitted in accordance with the proposal document and specification, or any proposal lacking sufficient technical literature to enable The City to make a reasonable determination of compliance to the specification. It shall be the proposer's responsibility to carefully examine each item of the specification. Failure to offer a completed proposal or failure to respond to each section of the technical specification will cause the proposal to be rejected without review as nonresponsive. All variances, exceptions, and/or deviations shall be fully described. Deceit in responding to the specification will be cause for rejection.

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# Scope of Work and Specification for a Fabric Membrane 80x84 Salt Storage Structure

City of Rome, NY



## PART 1

### 1.1 INTENT OF SPECIFICATION

- 1.1.1 This specification covers the design, manufacture, shipping, handling and erection of a prefabricated membrane covered structure.
- 1.1.2 The specification as heretofore set forth is general in nature and scope and shall not be construed as to limit the work other than the requirement that the new re-locatable building shall match the specifications in materials, appearance, configuration and details.
- 1.1.3 It is the intent of this specification that the bidder shall include all labor, materials, equipment services and transportation to locate the building on the site designated with all other work.
- 1.1.4 Buildings shall be complete and operating and shall include all exterior and interior materials and systems as shown or indicated in contract documents.
- 1.1.5 All workmen shall be skilled and qualified for the work they perform. All material used, unless otherwise specified, shall be new and of the types and grades specified. The contractor shall certify that no asbestos containing materials that exceed Federal mandated safe asbestos levels have been used in the construction of the membrane covered structure.
- 1.1.6 Work shall be performed as necessary and required for the construction of the project as indicated. Such work includes the supply and installation of a membrane-covered structure complete with exterior and interior finishes. The building shall be as dimensioned with all features and quantities as per specification.

### 1.2 APPROVAL OF PLANS

- 1.2.1 **Upon award of this contract, the contractor shall furnish detailed drawings for all structural work stamped by an engineer certified by the state of New York to verify compliance to local building code. Site specific calculations packages will be provided upon request of the customer (additional fees will apply).**
- 1.2.2 All work to be performed under the conditions of this specification shall comply with the rules and regulations of all agencies having jurisdiction for this classification of construction and design and shall conform to the applicable live loads due to wind, rain and snow.
- 1.2.3 **Manufacturer 's Qualification:** The fabricator of the building or building components shall be regularly engaged in the fabrication of this type of building. They must meet the requirements of this Section and shall show evidence of having an adequate manufacturing facility, equipment, and a quality control system. The fabricator must provide evidence upon request that they have produced a minimum of 50 such structures in the previous 12 months before acceptance of this contract. A reference list of 5 salt buildings shall be provided upon request. The fabricator shall be subject to the Director's approval.
- 1.2.4 **Fabric Warranty:** All membranes used are to be North American made, water and mildew resistant, insect proof, and UV stabilized. They are to withstand extreme climatic variations and contain ultra-violet inhibitors to reduce degradation by the sun's rays. Manufacturer is to provide a minimum **20-year** pro-rata warranty on non-fire rated fabric and a 15- year pro-rata warranty on fire rated fabric according to the standard manufacturer's warranty.
- 1.2.5 **Steel Truss Warranty:** Truss Framework tubing must be Hot Dip Galvanized inside and out of tubing - completely **after fabrication**. Failure to provide proof of this will cause the bid to be denied. The manufacturer is to provide a minimum **20-year** pro-rata warranty on the trusses according to the standard manufacturer's warranty.
- 1.2.6 **Building Erectors:** The building erector shall be regularly engaged in the erection of fabric *covered* buildings, meeting the requirements of this Section. The erectors must provide evidence that they have constructed a minimum of 5 such structures in a US Municipal contract setting in the past 12 months before acceptance of this contract – provide references and contact information for these structures. The erectors shall be subject to the approval of the Director.

- 1.2.7 Building Erector: Crew supervisor shall provide **10-Hour OSHA Card** prior to work commencement. All workers on site shall provide **10-Hour OSHA Cards** and all applicable equipment operator certifications prior to work commencement.

### 1.3 WORKMANSHIP

- 1.3.1 The workmanship of all materials and components of the structure shall be commensurate with the functional requirements of the item
- 1.3.2 Building manufacturer shall fabricate such structure under factory conditions in a plant specifically arranged for this type of work. Fabricator shall provide adequate space, equipment, personnel and technical ability to coordinate the assembly and factory prefabrication of all major components of the work and all necessary operations in the packing, shipping and installation procedures. No fabrication shall be done until the materials have been tested and approved.
- 1.3.3 Welding: Truss fabricator must be an approved welding fabricator to standards listed herein. A copy of AWS certification must accompany the structural drawings upon request.
- 1.3.4 On site welding: If welding is required on site, no welding shall commence until the AWS welding inspector has inspected and approved the materials, joint preparation, equipment and qualifications of the welders in accordance with the standards herein.

### 1.4 DIMENSIONS

- 1.4.1 The structure shall be gable shaped in profile
- 1.4.2 The structure shall occupy an area of at least 80 feet in width and 84 feet in length.
- 1.4.3 The structure shall provide for a **minimum interior clearance window of 30 feet wide and 37 feet tall at center from finished floor for unobstructed loading and unloading of material into the bunker** as shown in the drawing.
- 1.4.4 The structure shall provide for a **minimum interior clearance of 20 feet vertically at the bunker wall for unobstructed loading and unloading of material into the bunker** as shown in the drawing.
- 1.4.5 Britespan Magnum 80 or approved equal.
- 1.4.6 Precast concrete bunker shall be a minimum of 70 feet wide, 80 feet long, 12 feet tall, 3-sided to confine appx 4,000 tons of salt
- a. Contractor to provide commodity storage capacity verification
  - b. Precast concrete bunker shall be treated with salt inhibitor – subject to approval by the director
  - c. Precast concrete supplier must be certified and tested in accordance with IBC 2015 standards – testing shall be submitted to owner for verification.

## **1.5 SCOPE OF WORK**

- 1.5.1 Provide design and construction for a permanent rectangular shape tension membrane covered truss type building. The structure shall meet or exceed the performance criteria of this specification.
  - a. Building shall be mounted on contractor supplied CIP concrete piers or pad/pier 2 feet above grade
    - i. Truss spacing shall be min 14 feet on center to minimize foundation cost
  - b. One end fully enclosed with:
    - i. Hot Dipped Galvanized Steel Framing including primary and secondary members
    - ii. Minimum 2ea 4'x4' passive vents
  - c. One end open
  - d. Fabric terminated approximately 12" above the top of the concrete foundation.
  - e. Precast Bunker Wall set interior to the building, separate from the foundation.
  - f. Anchor bolts
- 1.5.2 Building design and foundation design to be stamped by an engineer certified by the state of New York to verify compliance to local building code and installed by contractor
- 1.5.3 Building to be mounted on engineer designed pad/pier combination that are maximum of two feet above finished floor.
- 1.5.4 Delivery of all materials to site by contractor
- 1.5.5 All lifts and equipment for installation of all items by contractor
- 1.5.6 Complete Structure & Accessory installation by contractor

## **PART 2**

### **2.1 GENERAL DESIGN REQUIREMENTS**

#### **2.1.1 SCOPE**

- 1. The membrane shall be tensioned over the framework. The structure shall be rectangular in shape with open end walls. The interior of the structure below the main trusses shall be clear span free of any structural support members and shall provide unobstructed floor space. No exterior purlins, guy ropes or cables shall be used for anchoring the structure.

## 2.1.2 DESIGN REQUIREMENTS – STRUCTURAL FRAME

1. Structure shall be engineered so it is capable of withstanding the loads specified in ASCE 7-10, and the IBC 2015 code year edition without failure or damage. Design must incorporate both balanced and unbalanced loads. Additional rain on snow surcharge loading must also be added to gable shaped (non-arch) buildings per ASCE 7-10.
2. The main structure shall consist of a welded truss arches comprised of parallel tubes separated apart by tubular webs. The truss cords must be made from round tubular steel with a continuous round tubular web separating the inner and outer chords. Exact chord and tubular web diameter and gauge to be called out by the manufactures engineering requirements. **Chord plastification calculations must be included on the structural drawings when chords are made with lighter than 11ga. Steel.**
  - a. Meet or exceed the following design dimensions for open web chord truss:
    - i. Truss Weight: 3250lbs Minimum
    - ii. Truss Chord Depth: 60” Minimum
    - iii. Chords Diameter 3-1/2” Minimum
    - iv. Chords Wall 11ga Minimum
    - v. Web Size 2-3/8” Minimum
    - vi. Web Wall 14ga Minimum
    - vii. Truss spacing 14’ OC– mandatory minimum truss spacing**
3. Structure must be capable of maintaining structural integrity in the event of a tear propagating in the fabric, without endangering occupants.
4. Truss framework tubing shall be Hot Dipped Galvanized **after fabrication** as per Building Product requirements stated herein. The Hot Dip Galvanizing must meet ASTM 123-12 as per the building code. Acceptable products:
  - a. Hot Dip Galvanized Product, galvanized inside and out **after** fabrication is completed
  - b. Aluminum
5. All purlins used in the building must be a minimum of 4 inches in diameter, 14ga min, made from one single piece of pipe, and be attached to the truss using a double bolted configuration with 2-5/8” bolts minimum attached directly to the welding dog bone or kingpin of the truss on each end. Saddle brackets are not suitable attachment as they allow rotational movement to occur. Cross “X” purlins will not be accepted as they tend to hold snow due to how they mount to the truss at the top chord. Purlins are required to be Hot Dip Galvanized, post manufacturing – no exceptions.
6. Building must utilize cross cables in each end bay to prevent racking. Cables must be a minimum of 5/16” galvanized that is 7 by 19 commercial grade and must be secured to structural welded truss member using a solid bolted or clevis connection and they must be adjustable for proper tensioning with a galvanized, lockable turnbuckle. Cable assemblies attached with open hooks or loops will not be allowed. Cables are to be assembled using a press swedged connection, clamps will not be allowed as the can slide. Cables must terminate at every bay to prevent the removal of galvanizing at wear points causing rust.
7. All tie down pipe that is used to fasten the cover to the building must be secured by a 10,000-pound lashing winch at every truss located on the outside of the structure. This ensures the attachment hardware will not be exposed to the corrosive salt material diminishing the useful life of the hardware. Ratchet strap attachment to the tie down pipe will not be accepted as a main cover



tensioning system. Tension pipe used for the main cover shall be oval or rectangular and installed in a vertical manner to minimize deflection when bay spacing exceeds 12' on center.

8. All bearing plates and other structural members must be hot dipped galvanized "POST" fabrication, no welding shall take place after the galvanized coating is applied.

**9. All anchor bolts, bolts and washers etc., shall be Hot Dip Galvanized.**

### 2.1.3 ENGINEERING DESIGN CRITERIA

<b>1. IBC 2015</b>	<b>ASCE 7 - 10</b>
2. SNOW LOAD	70 PSF ground snow load
3. COLLATERAL LOAD	0.25 pounds per square foot projected over entire roof
4. WIND LOAD	115 V-ult
5. OCCUPANCY CATEGORY	CAT I – Standard Human Occupancy
6. EXPOSURE CATEGORY	C
7. RAINFALL	4" per hour, for at least 2 hours
8. USE GROUP	S-2
9. CONSTRUCTION TYPE	II-B
10. FLAMMABILITY	NFPA 701
<b>11. WIND IMPORTANCE FACTOR</b>	<b>1.0</b>
<b>12. SNOW IMPORTANCE FACTOR</b>	<b>1.0</b>
13. SEISMIC DESIGN CATEGORY	B

D=Dead Load + Collateral Load

S=Symmetrical Snow or Live Load (Balanced or Unbalanced)

Ws = Wind Internal Suction

Wp = Wind With Internal Pressure

E = Earthquake

2.1.4 Structure shall be capable of being assembled, operated and dismantled in all ambient temperatures between -20F and 120F

## 2.2 MATERIALS

2.2.1 Cladding Membrane: Non-FR HDPE Fabric roof material must be a paneled cover and attached to the trusses with an extrusion and keder system for attachment. The cover must be securely attached at ends and sides. Field welding is acceptable. At no time, regardless of truss configuration, may the fabric become in contact with the steel truss framing of the building.

2.2.2 Membrane Performance Minimum Standards

Coated Weight	12 oz/yd (407 gsm)+/-5%
Coating Thickness	4 mils average, each side +/-2%
Finished Thickness	23 mils (ASTM D1777)
Grab Tensile Strength, lbs	345 lbs Weft (ASTM -D5304) 370 lbs Warp (ASTM -D5035)
Tongue Tear Strength, lbs	100 lbs Weft (ASTM -D2261) 110 lbs Warp (ASTM -D2261)
Mullen Burst	650 psi (4428 kPa)
Cold Crack Resistance	-55°C (ASTM -D2136)
Resistance to UV & Weathering	90% retention after 2000 hr.
Low Temperature Bend	-60 Degrees Celcius ASTM D2136
FR Performance	NFPA 701

2.2.3 The stressed membrane structure must be designed to shed snow before the design load is exceeded, or alternatively provide structural capacity to meet or exceed required roof snow load requirements of specified site. The architectural membrane shall be continuous from the base of the structure to the peak and manufactured in such a way that no eave will exist.

- A. To reduce premature wear points, at no time may the fabric come in contact with the steel truss arch.**

2.2.4 Membrane used in the building design shall be designed to withstand the corrosive UV light according to the manufacturer warranty.

2.2.5 Base tensioning system: The membrane cladding will be provided with a mechanical tensioning system that allows the membrane to be fully tensioned around the structure perimeter each panel. The system will be designed such that the membrane can be tightly and neatly secured over the structural frame and that the system has a remaining range of adjustment.

2.2.6 Converting raw fabric to finished membrane cover; To ensure quality control:

- A. Raw fabric converted to finished product must be manufactured on the same site as steel trusses and under the same supervision for complete building package continuity and quality control.
- B. Conversion plant/personnel must be CSA S367 Certified.
- C. Produce documented evidence that fabricator personnel have been trained no less than 160 hours in practical application.
- D. Fabric welding and construction of fabric covers shall be completed in a dedicated production plant, with the floor heated to 70 degrees Fahrenheit (+/- 2 degrees), and full environmental controls via HVAC system throughout the plant.
- E. Fabric conversion systems will include “inline vision systems” for 100% testing of weld parameters, continuously monitoring weld temperatures throughout the entire process. “Spot checking” will not acceptable practice.
- F. In-house testing of raw fabric and new welds shall be completed daily using a 4 hour test utilizing certified Instron Lab Equipment as described below in the chart:

Fabric Testing Requirements Per CSA S367-12 & ASTM D4851-07				
Test Type	Test Speed (in/min)	Test Length (between jaws)	Limits (min)	Notes
Weld Adhesion Warp (Peel)	2"	4" separation	5 lbs/in	Sample strip to be 1" x 8", strip fabric down from 1 layer to a distance of 2" prior to testing. Must specify failure mode.(CAF)
Weld Adhesion Weft (Peel)	2"	4" separation	5 lbs/in	
Shear Strength Warp (Breaking Force/Tensile)	2"	3"	216 lbf/in	Limits are 90% of coated fabric from manufacturer. Test specimens to be long enough to extrude 1/2" through bottom and top clamps
Shear Strength Weft (Breaking Force/Tensile)	2"	3"	189 lbf/in	
Static Load Test	200% of max. design service load	4 hrs	60 lbs/in	To be tested at 20C, results to be reported as % elongation

2.3 METAL SPECIFICATIONS

2.3.1 All steel tubing used in the structure must have the following minimum structural and mechanical properties (ASTM A-500):

- |           |                                |                    |                  |
|-----------|--------------------------------|--------------------|------------------|
| 1. Tube:  | ASTM A500/CSA G-40.21 (350W)   | Tensile 61,600 PSI | Yield 45,700 PSI |
| 2. Plate: | ASTM A500/Gr 50 CSA G40.21-50W | Tensile 65,000 PSI | Yield 50,000 PSI |

2.3.2 All steel flat bar, truss components shall be fabricated and hot dipped galvanized **post fabrication** to ASTM A123-12 meeting ASTM Standard B6 zinc coatings.

## **PART 3**

### **3.1 REFERENCES AND STANDARDS**

3.1.1 Except where more stringent requirements are specified, comply with the applicable requirements of the following organizations and standards, for products, materials, and construction methods:

- American Institute of Steel Construction (AISC)
- American Iron and Steel Institute (AISI)
- American Society of Civil Engineers (ASCE 7-10 Minimum Design Loads for Buildings and Other Structures)
- American Welding Society (AWS)

3.1.2 The following publications are for the standards listed below but referred to thereafter by basic letter designation only. They form a part of this specification to the extent referenced thereto: American Institute of Steel Construction (AISC):

- A. ASCE 7 - Minimum Design Loads for Buildings and Other Structures; American Society of Civil Engineers; 2011.
- B. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2008.
- C. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2012.
- D. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2012.
- E. ASTM A325 - Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength; 2010.
- F. ASTM A325M - Standard Specification for Structural Bolts, Steel, Heat Treated 830 MPa Tensile Strength (Metric); 2013.
- G. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2010a.
- H. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2013a.
- I. AWS D1.1/D1.1M - Structural Welding Code - Steel; American Welding Society; 2010 or CWB Canadian Welding Bureau.
- J. NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films; National Fire Protection Association; 2010.
- K. SSPC-SP 6 - Commercial Blast Cleaning; Society for Protective Coatings; 2007.
- L. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); Society for Protective Coatings; 2002 (Ed. 2004).
- M. SSPC-Paint 22 - Epoxy-Polyamide Paints (Primer, Intermediate, and Topcoat); Society for Protective Coatings; 1982 (Ed.2004).

3.1.3 PAINTING: Painting of steel components shall only be utilized if necessary for field repairs and shall not be employed as a factory finish. Should field repair be necessary, a zinc rich field coat shall be used

**3.1.4 FIELD WELDING:** In-Field fabric welding is accepted as a standard method of joining panels, rounding corners, repairing minor cuts or abrasions.

3.1.5 COLORS: As selected by the Director's Representative from standard Manufacturer's Color charts

3.1.6 ADJUSTING: Repair cut, welded, and/or abraded galvanized surfaces with a minimum 2 mil thick coating of cold galvanizing compound (containing 93 percent zinc) applied in accordance with manufacturer's instructions.

3.1.7 APPROVED MANUFACTURERS:

**1. The following manufacturers are preapproved and meets or exceeds this Specification.**

**Britespan Building Systems Inc.  
688 Josephine Street North, RR#1  
Wingham, Ontario N0G 2W0  
Phone No. 1-800-407-5846**

1. Equal manufacturer must be approved by director 7 days prior to bid opening.
2. Bidder must note manufacturer of structure at time of bid and may not be changed after.

#### **PART 4**

##### **4.1 COOPERATIVE PURCHASING**

4.1.1 City of Rome reserves the right to allow all municipal and not for profit organizations authorized under the General Municipal Laws of the State of New York, to purchase any goods and/or services awarded as a result of this bid in accordance with the latest amendments to NYS GML 100 through 104. However, it is understood that the extension of such contracts are at the discretion of the vendor and the vendor is only bound to any contract between the City of Rome and the vendor.

**END OF SECTION**



## **STATE OF NEW YORK, Section 103-a**

### **GENERAL MUNICIPAL LAW COMPLIANCE**

“Upon the refusal of a person, when called before a Grand Jury to testify concerning any transaction or contract had with the State, any political subdivision thereof, a public authority or with any public department, agency or an official of the state or any political subdivision thereof or of a public authority, to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant questions concerning such transaction or contract, (a) such person, and any firm, partnership or corporation of which he is a member, partner, or director or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contracts with any municipal corporation or any public department, agency or official thereof for goods, work or services, for a period of five years after such refusal, and (b) any and all contract made with any municipal corporation or any public department, agency or official thereof, since the effective date of this law, by such person, and by any firm, partnership or corporation of which he is a member, partner, director or officer may be cancelled or terminated by the municipal corporation without incurring any penalty or damages on account of such cancellations or termination, by any monies owing by the municipal corporation for goods delivered or work done prior to the cancellation or termination shall be paid all pursuant to Section 103-a of the General Municipal Law of the State of New York.”

Effective: July 1, 1959

**DEVIATIONS SHEET**

**RESPONSIBLE BIDDER**

Each bidder will complete the following to enable the City to determine a Responsible Bidder.

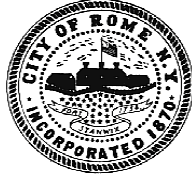
A. Is your firm presently engaged in actions which will lead to a merger, consolidation, or other form of reorganization?

\_\_\_\_\_ yes      \_\_\_\_\_ no

B. Has your firm filed for bankruptcy? \_\_\_\_\_ yes      \_\_\_\_\_ no

In determining the "lowest responsible bidder," in addition to price, the purchasing authority shall consider the ability, capacity and skill of the bidder to perform the contract or provide the service required; whether the bidder can perform the contract or provide the service promptly or within the time specified, without delay or interference; the character, integrity, reputation, judgment, experience and efficiency of the bidder; the quality of performance or previous contracts or services; the and existing compliance by the bidder with laws and ordinances relating to the contract or service; the sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service; the quality, availability and adaptability of the supplies or contractual services to the particular use required; the ability of the bidder to provide future maintenance and service for the use of the subject of the contract; and the number and scope of conditions attached to the bid





## **NON-COLLUSIVE BIDDING CERTIFICATE**

Pursuant to Chapter 675, Laws of 1966

- (a) By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:
- (1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such process with any other bidder or with any competitor:
  - (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and
  - (3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not submit a bid for the purposes of restricting competition.

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(Name of Bidder)

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(Official capacity)



## **PREVAILING WAGE SCHEDULE**

### **FOR ARTICLE 8, SECTION 220 PUBLIC WORK PROJECTS or ARTICLE 9, SECTION 230 BUILDING SERVICE PROJECTS**

A unique Prevailing Wage Case Number has been assigned to the schedule for this project. Updated PDF copies of your schedule can be accessed by entering the assigned PRC number at the proper location at:

<http://wpp.labor.state.ny.us/wpp/doPublicNewProject.do>

#### **PRC No (not applicable)**

If you do not have internet access, you may contact the City of Rome Purchasing Department at 315-339-7665 to request a copy of the prevailing rate schedule provided for this project.

#### **CERTIFIED PAYROLLS - WAGE RATES**

In accordance with the New York State Labor Law every contractor should submit to the City of Rome their original certified payroll records for work performed in conjunction with this project within thirty days after issuance of the first payroll, and every thirty days thereafter (if applicable) a transcript of the original payroll record subscribed and affirmed as true under penalties of perjury. Payment cannot be made to contractors until the City has received the Certified Payroll(s). In addition, contractors will be responsible for posting, in a prominent and accessible place on the site of the job, a legible statement of all wage rates and supplements. For your information, the contract requirements and prevailing wage rate schedule, with a detailed explanation concerning your obligations under the New York State Labor Law has been included in this proposal.

An increase in wage rates can only be allowed during the term of this contract if the NYS Department of Labor publishes new wage rates for the trades designated in these specifications. Any increase in the hourly rate will be limited to the difference between the hourly rates contained in these specifications compared to those issued after this bid awarded.

Corporations, partnerships and sole proprietors submitting proposals are hereby informed that ALL personnel working on this project must be paid the prevailing rate, or above, in accordance with the current NYS Labor Laws in effect during the course of the project. This includes all owners, partners, and other management and other employees as required.

**NOTE: Vendors currently on the NYS Labor Department Debarred List will not be considered for award of this contract. By submitting a bid for consideration, the vendor is indicating to the City that they are currently in good standing with the NYS Department of Labor at the time of the bid or quote.**