

## PUBLIC NOTICE

Notice is hereby given that the County of Webb is now accepting bids for the forensic equipment for the expansion of the Texas Department of Public Safety, Laredo Crime Laboratory.

### **Bid 2013- 100 "Laredo Laboratory Shooting Range and Cold Storage Rooms Equipment"**

**Bids must be submitted in one (1) original and eight (8) copies in sealed envelopes to the Office of the Webb County Clerk's. Sealed envelopes must be marked (sealed-Proposals) with RFP number and title on front of lower left-hand corner of envelopes.**

Bids will either hand delivered or mailed to the following location:

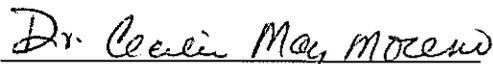
**Webb County Clerk  
Webb County Justice Center  
1110 Vitoria St. Suite 201  
Laredo, Texas 78042-0029**

A Pre-Bid meeting will be held on **January 31, 2013 at 10:00 AM** at Webb County Purchasing Conference Room, 1110 Washington Suite 101, Laredo, Texas 78040.

Bids must be delivered no later than **Thursday February 7, 2013 at 2:00 p.m.** at which time all bids received will be opened and read to the public. Late bids will not be considered.

If additional information is requested please contact, Leticia Gutierrez at the Webb County Purchasing Department, 1110 Washington St. Suite 101 (956)523-4127, Laredo, Texas 78041. Please visit our Web-site for a copy of proposal notice and specifications, under purchasing department [www.webbcountytx.gov](http://www.webbcountytx.gov).

The County of Webb reserves the right to reject any and all Bids.

  
Dr. Cecilia May Moreno  
Purchasing Agent

THIS FORM MUST BE INCLUDED WITH Bid Package; PLEASE CHECK OFF EACH ITEM AND SIGN

## “Sealed Bid

Bid 2013-001 “Laredo Laboratory Shooting Range and Cold Storage Rooms Equipment”

- Public Notice
- Information
- Price Forms
- Specifications
- Conflict of Interest Forms
- Debarment Certification
- Terms & Conditions
- Proof of No Delinquent Tax Owed to Webb County
- Bidders Information Form

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Signature

## **Bid 2013-001 "Laredo Laboratory Shooting Range and Cold Storage Rooms**

### **I. Introduction**

Webb County is requesting competitive bids for Cold Storage Rooms Equipment and Shooting Range Equipment. Webb County has received a Federal grant for the Purchase of the equipment. The equipment will be used by the Texas Department of Public Safety. Due to the technical and precise demands of the equipment, the specifications for the equipment have been prepared by an architect.

It is expected that the provider for one set of equipment specifications may be different from the provider of the second set of equipment specifications.

Webb County will purchase the equipment and provide payment when all the equipment identified in the purchase order has been delivered and invoices are received. Partial payments are not expected to be made.

Equipment details, delivery demands, and exact equipment needs are identified within this package.

### **II. Bid Price Form**

The enclosed Bid Price Form must be used in submitting the bid for the equipment. While this is a bid, the selected vendor may be expected to demonstrate their understanding of the project and capacity to deliver the equipment as requested. It is expected that the purchase order will mirror the price bid form, thus it is important that all sections be completed. Freight, delivery or other handling charges must be incorporated into the price of the equipment as a separate line item is not provided. This bid carries no bid bond.

### **III. Submittals**

- a. Bids are due on February 7, 2013 at 2:00 PM to the Webb County Clerk: (provide details).
- b. A pre-bid meeting will be held on Thursday January 31, 2013 at 10:00 AM at Purchasing Department conference room, 1110 Washington Suite 101, Laredo, Texas 78040
- c. Questions related to Bid 2013-001 "Laredo Laboratory Shooting Range and Cold Storage Rooms" are to be made to Dr. Cecilia Moreno, Webb County Purchasing Agent [cmaymoreno@webcountytexas.gov](mailto:cmaymoreno@webcountytexas.gov) (956-523-5224). It is preferred that questions be emailed. Responses will be made after consultation with the architect.
- d. The detailed information on this request is provided in 4 sections.  
Section 01 30 00 addresses the Administrative Requirements- this section addresses submittals after the contract has been awarded.  
Section 01 60 00 addresses Product requirements including the responsibility of the vendor to coordinate with DPS for delivery of the product  
Section 11 67 23 addresses the Shooting Range equipment requirements  
Section 13 21 26 addresses the Cold Storage Rooms equipment requirements

**Price Form**  
**Webb County Bid 2013-100**  
**DPS Laredo Crime Laboratory, Laredo Texas**

**Shooting Range Equipment**

- Item 1. Ballistic testing bullet trap** \$ \_\_\_\_\_
- Item 2. Ballistic rated safety ceiling baffles** \$ \_\_\_\_\_
- Item 3. Ballistic rated safety vertical baffles** \$ \_\_\_\_\_
- Item 4. Ballistic rated safety wall panels (includes rubber panels and AR rated steel)**  
\$ \_\_\_\_\_
- Item 5. Automatic operated target system** \$ \_\_\_\_\_
- Item 6. Range accessories including ballistic rubber blocks, metal  
pegboard and vibration isolation pads.** \$ \_\_\_\_\_
- Total \$** \_\_\_\_\_

\_\_\_\_\_ (Form must be signed)  
Signature

**Price Form**  
**Webb County Bid 2013-100**  
**DPS Laredo Crime Laboratory, Laredo Texas**

**Cold Storage Room Equipment**

<b>Item 1. Insulated wall, ceiling and floor panels</b> <b>For 10x12.5 foot cold storage room</b>	\$ _____
<b>Item 2. Insulated door, view window and hardware</b>	\$ _____
<b>Item 3. Shelving</b>	\$ _____
<b>Item 4. Lighting fixtures and power receptacles</b>	\$ _____
<b>Item 5. Cooling System including refrigerant</b>	\$ _____
<b>Item 6. Control system including alarm systems</b>	\$ _____
<b>Item 7. Internal piping, wiring and accessories</b>	\$ _____
	<b>Total \$ _____</b>

\_\_\_\_\_  
Signature (Form must be signed)

# Specifications

ARCHITECTS SUPPLEMENTAL INSTRUCTIONS  
NO. 001

DATE: 01-17-2013

RE: DPS Laredo Crime Lab  
Laredo TX  
WHR Project No. G10207.05

FROM: WHR Architects, Inc.  
1111 Louisiana, 26<sup>th</sup> Floor  
Houston, TX 77002

TO: Equipment provider



This Architects Supplemental Instructions forms a part of the Contract Documents and modifies the original Bidding Documents dated Feb. 16, 2012 as noted below.

This Architects Supplemental Instructions consists of 1 page plus attachments as listed.

REVISED DRAWINGS:

The following 30" by 42" Drawings are revised and reissued herewith:

1.01	A 01	ENVIORMENTAL ROOM
1.02	A 601	PARTITION TYPES
1.03	AQ 301	LAB ELEVATIONS
1.04	AQ302	LAB ELEVATIONS

REVISED SPECIFICATIONS:

The following Specifications Sections are revised and reissued herewith:

1.05	01 30 00	ADMINISTRATIVE REQUIRMENTS
1.06	01 60 00	PRODUCT REQUIRMENTS
1.07	13 21 26	COLD ROOM STORAGE
1.08	11 67 23	SHOOTING RANGE EQUIPMENT

END OF ARCHITECTS SUPPLEMENTAL INSTRUCTIONS No. 001

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SECTION 01 30 00  
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL - NOT USED

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 BID SUBMITTALS

- A. When the following are specified in individual sections, submit with Bid Documents:
  - 1. Product data.
  - 2. Samples for selection.

3.02 CONTRACT AWARD SUBMITTALS

- A. When the following are specified in individual sections, submit upon award of contract:
  - 1. Shop drawings.
  - 2. Samples for verification.
- B. Submit to Architect for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
- C. Samples will be reviewed only for aesthetic, color, or finish selection.
- D. After review, provide 4 copies to the Installer.

3.03 SUBMITTALS FOR INFORMATION

- A. When the following are specified in individual sections, submit them for information:
  - 1. Design data.
  - 2. Certificates.
  - 3. Test reports.
  - 4. Inspection reports.
  - 5. Manufacturer's instructions.
  - 6. Manufacturer's field reports.
  - 7. Other types indicated.
- B. Submit for Architect's knowledge as contract administrator. No action will be taken.

3.04 NUMBER OF COPIES OF SUBMITTALS

- A. Documents for Review:
  - 1. Number of copies, and distribution routing will be established at Preconstruction Meeting.
- B. Document Size:
  - 1. Written data submittals: Not larger than 8-1/2 x 11 inch paper, typed and including project information title block specified below under SUBMITTAL PROCEDURES.
- C. Documents for Information: Submit PDF electronic file.
- D. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
  - 1. Retained samples will not be returned to Contractor unless specifically so stated.

3.05 ELECTRONIC SUBMITTAL PROCEDURES

- A. General Requirements:
  - 1. Electronic Submittals Intent: To expedite the process by reducing paperwork, improving information flow, and decreasing turnaround time.
  - 2. Transmit shop drawing and product data submittals to Architect in electronic (PDF) format.

3. Electronic submittal process is not intended for color samples, color charts, or physical material samples.
- B. Software Requirements: Adobe Acrobat ([www.adobe.com](http://www.adobe.com)), Bluebeam PDF Revu ([www.bluebeam.com](http://www.bluebeam.com)), or other similar PDF review software for applying electronic stamps and comments.
- C. Converting Documents:
  1. Prepare documents for submittal by converting to PDF format.
  2. Legible scanned PDF files of paper drawings are acceptable, however PDF sets created by converting CAD documents using PDF software are preferable.
    - a. Scanned sets are more difficult to annotate, are usually less legible, and produce larger attachment sizes.
    - b. Scanned submittals that are not legible will not be reviewed and will be returned, "Revise and Resubmit."
- D. Submittal Identification and Information: Identify and incorporate information in each electronic submittal file as follows:
  1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
  2. Limit submittal package to a single specification section submittal requirement.
  3. Name file with submittal number or other unique identifier, including revision identifier.
    - a. Submittal File Name: Use project identifier (DPS) and Specification Section number followed by a decimal point and then a sequential number (e.g., DPS-061000.01).
      - 1) Resubmittals: Include an alphabetic suffix after another decimal point (e.g., DPS-061000.01.A).
  4. Provide means for permanent insertion of Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
  5. Include the following information as appropriate on an inserted cover sheet:
    - a. Project name.
    - b. Date.
    - c. Name of Architect.
    - d. Name of Construction Manager.
    - e. Name of firm or entity that prepared submittal.
    - f. Name of subcontractor.
    - g. Name of supplier.
    - h. Name of manufacturer.
    - i. Number and title of appropriate Specification Section.
    - j. Drawing number and detail references, as appropriate.
    - k. Location(s) where product is to be installed, as appropriate.
    - l. Related physical samples submitted directly.
    - m. Other necessary identification.
  6. Options: Identify all options and selections on the shop drawing and data sheets.
    - a. Delete all options and selections that are not applicable.
    - b. Do not submit generic data sheets or cut sheets without specific mark-ups clearly indicating components or options to be provided.
    - c. Unmarked data sheets and cut sheets will not be reviewed and will be returned, "Revise and Resubmit."
  7. Transmitting Electronic Submittals:

- a. Submit electronic submittals via email as PDF electronic files.
  - b. Email Subject Line: Use the same name as the attachment file name, but without the file type extension (that is, without .pdf).
  - c. File Resolution: Submit required submittals in PDF electronic file format.
    - 1) Product Data: Scanned with a minimum resolution of 100 dpi to a maximum 300 dpi.
    - 2) Shop Drawings: Maximum 150 dpi.
  - d. File Size: Compose documents as one consolidated electronic file whenever possible.
    - 1) Maximum Email Size: Not greater than 10 MB, unzipped.
    - 2) Send emails greater than 10 MB in two or more parts by separate emails. In such cases denote "1 of 2" and "2 of 2" in the subject line after other required subject-line information.
    - 3) Electronic file name shall match submittal name.
    - 4) Electronic files as a substitution for physical sample requirements will not be accepted without prior approval by Architect on a case-by-case basis.
8. Submittal Return: Architect will return annotated file by email . Annotate and retain one copy of file as an electronic Project record document file.

### 3.06 SUBMITTAL PROCEDURES

- A. Transmit each submittal as directed in award of contract.

### 3.07 SHOP DRAWINGS

- A. Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
  1. The Contractor represents and warrants that Shop Drawings shall be prepared by persons and entities possessing expertise and experience in the trade for which the Shop Drawing is prepared and, if required by the Contract Documents or applicable law, by an engineer currently licensed in the State in which the Project is located.
- B. Submit PDF electronic file. After review, distribute in accordance with requirements in Article on Submittal Procedures, above.

### 3.08 PRODUCT DATA

- A. Mark each copy to identify applicable products, models, options, and other data; supplement manufacturer's standard data to provide information unique to the Work.
- B. Submit PDF electronic file.
- C. Products shall be free of asbestos and nontoxic in nature as stated by the Material Safety Data Sheet (MSDS) submitted with each product.

### 3.09 MANUFACTURER'S INSTRUCTIONS

- A. When required in individual Specification Section, submit manufacturer's printed instructions for delivery, storage, assembly, installation, adjusting, and finishing, in PDF electronic file.

### 3.10 SAMPLES

- A. Submit full range of manufacturer's standard colors, textures, and patterns for Architect's selection. Submit samples for selection of finishes within 30 days after date of Contract.
- B. Submit samples to illustrate functional characteristics of the product, with integral parts and attachment devices. Coordinate submittal of different categories for interfacing Work.
- C. Include identification on each sample, giving full information.

- D. Submit the number specified in respective Specification Section; the Architect will retain one. Reviewed samples that may be used in the Work are indicated in the respective Specification Sections.
- E. Provide field samples of finishes at Project as required by individual Specifications Section. Install sample complete and finished. Acceptable samples in place may be retained in completed Work.

### 3.11 COLOR SELECTIONS

- A. Within 60 days of Notice to Proceed, submit at one time all materials requiring a color selection.
  - 1. Allow 30 days in Project Schedule after submission of color submittals to Architect for preparation and approval of comprehensive color schedule.
  - 2. Submit samples for color selection in the full range of applicable manufacturer's full line of standard colors.
- B. After receipt of all color samples, Architect will prepare proposed comprehensive color schedule for Owner's review and approval. Following Owner's approval, color schedule will be released to the Contractor for ordering materials.
  - 1. No color selection will be released until all colors are approved in the comprehensive color schedule.
- C. If the Contractor is unable to submit all color selections/samples within 60 days after "Notice to Proceed", Architect may proceed with preparing the color schedule using Specified Products which the Contractor shall be required to match at no additional cost to the Owner.

### 3.12 ARCHITECT'S/ENGINEER'S ACTION

- A. Except for submittal for record, information or similar purposes, the Architect will review each submittal required by the Contract Documents in the manner indicated below. The Contractor will remain responsible for compliance with the Contract Documents notwithstanding this review.
- B. The Architect will stamp each submittal with a uniform action stamp. The stamp will be appropriately marked as follows to indicate the action to be taken by the Contractor after the review:
  - 1. Where submittals are marked "REVIEWED", that part of the Work covered by the submittal may proceed, provided it complies with notations or corrections on the submittal and with requirements of the Contract Documents. Final acceptance of any Work will depend upon compliance with Contract Documents.
  - 2. When submittals are marked "REVISE & RESUBMIT", do not proceed with that part of the Work covered by the submittal, including purchasing, fabrication, delivery, or any other activity. Revise or prepare a new submittal in accordance with the notations indicated on the submittal for another review. Do not allow submittals marked "REVISE & RESUBMIT" to be used in any way on the Project.
  - 3. When submittals are marked "NO ACTION TAKEN", it has been determined that the submittal is either non-applicable, for information only, or for record purposes. Some submittals that may be included in this category include, Coordination Drawings, Operations & Maintenance manuals, Record Drawings and Engineered Shop Drawings which bear a separate engineer's seal.

### 3.13 QUESTIONS

- A. Direct ALL questions concerning the Bid as instructed in the Public notice.

END OF SECTION

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SECTION 01 60 00  
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. General product requirements.
- B. Transportation, handling, storage and protection.
- C. Product option requirements.
- D. Substitution limitations and procedures.
- E. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 REFERENCE STANDARDS

- A. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- B. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition; [www.aqmd.gov](http://www.aqmd.gov).

PART 2 PRODUCTS

2.01 NEW PRODUCTS

- A. Provide new products unless specifically required or permitted by the Contract Documents.
- B. Do not use products having any of the following characteristics:
  - 1. Made using or containing CFC's or HCFC's.
  - 2. Made using or containing asbestos.
  - 3. Made of wood from newly cut old growth timber.
- C. Provide interchangeable components of the same manufacture for components being replaced.
- D. Motors: Refer to Section 22 05 13, NEMA MG 1 Type. Specific motor type is specified in individual specification sections.
- E. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Size terminal lugs to NFPA 70, include lugs for terminal box.
- F. Cord and Plug: Provide minimum 6 foot cord and plug including grounding connector for connection to electric wiring system. Cord of longer length is specified in individual specification sections.

2.02 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
- C. Products Specified by Naming Several Manufacturers, marked (NO EXCEPTION): No options, and no substitutions allowed.
- D. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.03 MAINTENANCE MATERIALS

- A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.

- B. Deliver to Project site; obtain receipt prior to final payment.

### PART 3 EXECUTION

#### 3.01 SUBSTITUTION PROCEDURES

- A. Architect will consider requests for substitutions only within 15 days after date established in Notice to Proceed.
- B. Substitutions may be considered when a product becomes unavailable through no fault of the Contractor.
- C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Include in each request for substitution:
  - 1. Product identification, manufacturer's name and address.
  - 2. Product Data: Description, performance and test data, reference standards, finishes and colors.
  - 3. Samples: Finishes
  - 4. Name and address of similar projects on which product was used: date of installation.
  - 5. Complete and accurate drawings indicating construction revisions required (if any) to accommodate substitutions.
  - 6. Data relating to changes required in construction schedule.
  - 7. Cost comparison between specified and proposed substitution.
- D. A request for substitution constitutes a representation that the submitter:
  - 1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
  - 2. Will provide the same warranty for the substitution as for the specified product.
  - 3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
  - 4. Waives claims for additional costs or time extension that may subsequently become apparent.
  - 5. Will reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.
- E. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.
- F. Only one request for substitution will be considered for each product. When substitution is not accepted, provide specified product.
- G. Architect will be the sole judge of acceptability; no substitute shall be ordered, installed or utilized without Architect's prior written acceptance.
- H. Substitution Submittal Procedure:
  - 1. Submit three copies of request for substitution for consideration. Limit each request to one proposed substitution.
  - 2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
  - 3. The Architect will notify Contractor in writing of decision to accept or reject request.

#### 3.02 TRANSPORTATION AND HANDLING

- A. Coordinate schedule of product delivery with TFC Project Manager and installing contractor in order to minimize site storage time and potential damage to stored materials.
- B. Transport and handle products in accordance with manufacturer's instructions.

- C. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- D. Prior to delivery, promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- E. During delivery, provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
- F. All equipment must be delivered to designated location and received without damage prior to issue of payment.

### 3.03 DELIVERY AND PROTECTION

- A. Coordinate receiving for incoming products so that they are delivered according to the construction installation schedule.
- B. During transportation and delivery prevent contact with material that may cause corrosion, discoloration, or staining.
- C. During transportation and delivery provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

END OF SECTION

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SECTION 11 67 23  
SHOOTING RANGE EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Scope of Work includes purchase and delivery of the following equipment and accessories. Installation by others.
- B. Range Equipment:
  - 1. Bullet traps.
  - 2. Safety ceilings.
  - 3. Baffles.
  - 4. Ballistic wall treatments.
  - 5. Target systems.
- C. Accessories:
  - 1. Metal peg board.
  - 2. Vibration isolation pads.

1.02 REFERENCE STANDARDS

- A. ASTM A 36/A 36M - Standard Specification for Carbon Structural Steel; 2005.
- B. ASTM A 514/A 514M - Standard Specification for High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding; 2005.
- C. ASTM A 666 - Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate and Flat Bar; 2003.
- D. ASTM C 423 - Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2002.
- E. ASTM D 2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials; 2006.
- F. ASTM E 10 - Test Method for Brinell Hardness of Metallic Materials; 2007.
- G. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2008.
- H. ASTM E 413 - Classification for Rating Sound Insulation; 2004.
- I. AWS D1.1/D1.1M - Structural Welding Code - Steel; American Welding Society; 2010.
- J. NEMA MG 1 - Motors and Generators; National Electrical Manufacturers Association; 2006.
- K. NFPA 70 - National Electrical Code; National Fire Protection Association; 2008.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
- C. Shop Drawings:
  - 1. Submit shop drawings prepared by the manufacturer showing plans, sections, elevations, layouts, profiles and product component locations, including anchorage, bracing, fasteners, accessories and finishes.
  - 2. Show connection details with screw types and locations, weld lengths and locations, and other fastener requirements.

- D. **Design Data:** Bullet resistance analysis design calculations for specific project conditions, certifying system conformance to specified performance requirements. Design calculations to bear seal and signature of registered professional structural engineer licensed to practice in the state in which the project is located.
- E. **Test Reports:** Certified test reports showing compliance with specified performance characteristics and physical properties.
- F. **Manufacturer's Installation Instructions:** Indicate special requirements.
- G. **Operation Data:** Provide operating instructions, identify unit limitations.
- H. **Maintenance Data:** Provide unit maintenance information, lubrication cycles, spare parts manual.

#### 1.04 QUALITY ASSURANCE

- A. **Manufacturer Qualifications:** Company specializing in manufacturing products of this Section with ISO Certification certifying manufacturer's quality management system is currently registered to ISO 9001:2000 and ISO 14001; 2004 quality standards.
- B. **Manufacturer's Field Representative Qualifications:** Experienced in the installation of the specified products.
- C. **Installer Qualifications:** Company specializing in performing the work of this section with minimum three years of experience.
- D. **Electric Equipment:** Listed and labeled by UL and complying with NEMA standards.

#### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's unopened, undamaged packaging, with manufacturer's labels intact.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store materials protected from exposure to rain, snow or other harmful weather conditions, at temperature and humidity conditions.

#### 1.06 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Meggitt Defense Systems Caswell: [www.meggitttrainingsystems.com](http://www.meggitttrainingsystems.com).
- B. Range Systems by Renew Resources, Inc.: [www.range-systems.com](http://www.range-systems.com).
- C. Action Target Inc.: [www.actiontarget.com](http://www.actiontarget.com).
- D. Substitutions: See Section 01 60 00 - Product Requirements.

#### 2.02 MATERIAL

- A. Steel Angles, Plates, and Channels: ASTM A 36/A 36M.
- B. Steel Plate: ASTM A 514/A 514M.
- C. Stainless Steel Plate and Sheet: ASTM A 666, Type 304.
- D. Welding Materials: AWS D1.1, D1.6; type required for materials being welded.

- E. Shop and Touch-Up Primer: Fabricator's standard, complying with VOC limitations of authorities having jurisdiction.

## 2.03 RANGE EQUIPMENT

### A. General:

1. Metallurgical: Surfaces that may be directly impacted by incoming shots from the firing line, both properly directed and misdirected, to be constructed of high abrasion resistant (AR) alloy steel of carbon, magnesium, cobalt and molybdenum content. Do not expose mild steel surfaces directly to incoming bullets.
2. Surface Burning Characteristics: Flame spread index of 25 or less and smoke developed index of 450 or less, when tested in accordance with ASTM E 84.

### B. Ballistic Testing Bullet Trap:

1. Rifle Rated/Rubber Systems: The overall height and depth of the bullet trap as indicated on the Drawings.
2. Basis of Design: Model Encapsulator Granular Rubber Bullet Trap manufactured by Range Systems.
3. Description: Trap assembly for capturing projectiles emitted from rifles, pistols and shotguns along a line substantially parallel to the ground surface, with no backscatter.
  - a. Ballistic Rating: Capable of capturing jacketed, semi-jacketed and non-jacketed, shot and slug projectiles with muzzle velocities from 600 feet per second to .308/7.62 mm grade, certified up to 3600 foot-pounds of impact. Tracer or incendiary rounds are NOT permitted.
  - b. Trap assembly consists of a box-type support frame inclined relative to the incoming direction of projectiles. A volume of granulated rubber material inside the box type trap assembly covered by gum rubber sheet. Support frame not relied upon to capture projectiles.
    - 1) Support frame includes an inclined support surface of 10 gauge steel supported by a steel truss structure arranged and configured to properly support the granular trap media.
    - 2) Ballistic rubber blocks form front edge of trap assembly to contain rubber granulate fill and capture, rather than redirect, errant rounds.
    - 3) Hopper assembly located above the target region of trap provides a supplemental volume of rubber granulate to maintain a constant depth of material. Front facing of hopper constructed of AR 500 steel and covered with 2 inch thick ballistic rubber panels to provide ballistic protection and capture errant shots.

### C. Safety Ceilings:

1. Rifle Rated Safety Ceilings:
  - a. Basis of Design: Model Acoustic Dura-Panel manufactured by Range Systems.
  - b. Ballistic Rating: Capable of providing ballistic protection up to 7.62 mm grade, certified up to 3700 foot-pounds of impact.
  - c. Description: Suspended modular safety baffles designed to deflect high misdirected shots down into the bullet trap.
    - 1) Ceiling system to shelter range from 8 feet above the floor from the firing line to 12 feet down range and based on shooting from the lowest position normally used for a range of the specified type. Extend sheltered area within 1 inch of either sidewall.
    - 2) Pre-fabricated modular baffles 2 inch thick adhered to 3/8 inch thick AR500 alloy steel plate. Alter dimensions to suit the requirements of range. Furnish panels complete with suspension hardware.

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- (a) Panels suspended from cleats or eye-bolts with contiguous panels secured to each other.
  - (b) Provide No. 2/0 twin loop, zinc plated chain suspension hardware and suitable attachment hardware with vertical adjustment.
- D. Baffles:
- 1. Rifle Rated Vertical Baffles:
    - a. Basis of Design: Model Acoustic Dura-Panel manufactured by Range Systems.
    - b. Ballistic Rating: Capable of providing ballistic protection up to 7.62 mm grade, certified up to 3700 foot-pounds of impact.
    - c. Description: Vertically suspended baffles designed to provide anti-ricochet protection and capture and contain errant rounds, rather than redirect.
      - 1) Pre-fabricated modular panels 2 inch thick adhered to 3/8 inch thick AR500 alloy steel plate. Alter dimensions to suit requirements of range. Furnish panels complete with suspension hardware.
        - (a) Assemble using screws, lag bolts or ring-shank nails spaced on 6 inch maximum center.
- E. Ballistic Wall Treatments:
- 1. Acoustical Ballistic Wall Treatments:
    - a. Basis of Design: Model Pro-Tacts Tactical Sidewall Protection System manufactured by Range Systems.
    - b. Description: Wall mounted acoustical modular ballistic panels extending from floor to ceiling. Assemble using screws, lag bolts or ring-shank nails spaced on 6 inch maximum center.
      - 1) Wall Type 21: Pre-fabricated acoustical modular ballistic panels 2 inch thick adhered to 1/4 inch thick AR500 alloy steel plate. Alter dimensions to suit requirements of range. Furnish panels complete with mounting hardware.
      - 2) Wall Type 22: Pre-fabricated acoustical modular ballistic panels 2 inch thick adhered to 1/2 inch thick AR500 alloy steel plate. Alter dimensions to suit requirements of range. Furnish panels complete with mounting hardware.
- F. Target Systems:
- 1. Basis of Design: Model Touch N' Go Target Retrieval System manufactured by Mancom Manufacturing Incorporated: [www.mancom.ca](http://www.mancom.ca).
  - 2. Description: Single lane, electrically operated, microprocessor based, touchpad controlled trolley-wire type target retrieval system. Equipment designed for full-time activities with mid-range handgun ammunition and able to withstand occasional impacts from misdirected bullets from proper courses of fire when the carrier cars are at the target lines. The front exposed surfaces of the carrier, rail hangers and stops to withstand occasional direct impacts of all ammunition that may be fired by most handguns.
    - a. Functional Requirements: System capable of transporting all bulls eye and silhouette targets up to and including the B29 and B30 silhouette targets with or without cardboard backers.
      - 1) Offhand target holder: Suspend targets for handgun shooting so that their top edge will be approximately 70 inches above the floor. Target holder to securely hold targets and allow for quick release for changing.
      - 2) Trolley wire: 3/32 inch aircraft cable strung between terminal stop at the target line and stop at firing-line and riding along an 11 gauge steel track. Provide tension adjustment so that sag does not exceed 6 inch at center of range.
      - 3) Target carrier car: Steel chassis with two ball-bearing wheels that ride on the trolley wire and provided with a vertical recess into which target spindles may be

attached. Target carrier location tracked using a rotary encoder, which gives positions within plus or minus 1 inch.

- 4) Terminal stop: Provide stop with means of attaching trolley wire and mating member for seating against carrier-car stabilizing member and turnaround ball-bearing pulleys for puller cords.
- 5) Firing-line stop: Ball-bearing pulley assembly that terminates retrieval travel of carrier car and redirects puller cord towards hand wheel. Provide means for attachment and tension adjustment on trolley wire.
- 6) Microprocessor controlled electric motor drive unit moves trolley wire and carrier car.
- 7) Master Control Screen: Tactile keypad with backlit LCD display. Bi-colored status LED's for indicating target lane operating modes. Capable of programming target carrier positions.
- 8) Power Characteristics: 120 V, 60 Hz, single phase.
- 9) Data Characteristic: RJ45 connector and CAT5 cable.

#### 2.04 RANGE COMPONENTS

- A. Acoustical Modular Ballistic Panels: Pre-fabricated modular baffles 2 inch thick with channeled surface composed of a mixture of modified high density composite rubber based particles and bonding agents, cold molded under high pressure to form dimensionally stable ballistic panels. Install channeled surface panels in checkerboard pattern.
  1. Ballistic Rating: Capable of providing ballistic protection up to .308/7.62 mm grade.
  2. Size: 24 by 24 inches. Capable of taking approximately 2200 rounds before replacement is required depending on bullet type and distribution of wear.
  3. Acoustic Rating:
    - a. Noise Reduction Coefficient (NRC): 0.65 in accordance with ASTM C 423.
    - b. Sound Transmission Class (STC): 29 in accordance with ASTM E 413.
  4. Basis of Design: Acoustic Dura-Panel as manufactured by Range Systems.
- B. Ballistic Rubber Blocks: Pre-fabricated rubber composite blocks. Self-healing properties seal the bullet's path after the round has penetrated the surface so each bullet is encapsulated inside the ballistic rubber block.
  1. Ballistic Rating: Capable of encapsulating ammunition up to 7.62 mm grade.
  2. Size: 24L by 12W by 9H inches.
  3. Basis of Design: Dura-Bloc as manufactured by Range Systems.

#### 2.05 ACCESSORIES

- A. Metal Pegboard: Polished diamond plate 93.5 x 45.5 inch panels, 0.125 inch thick, 3/4-inch edge return. 1/4-inch diameter holes 1-inch on center in both directions, accepting standard pegboard hardware. Load capacity: 1 ton.
  1. Peg Hooks: 0.200 inch galvanized steel rod formed in 5/8 inch curved hook. Model: HN180-653; Quantity: 200.
  2. Product: PegBoard X2 manufactured by Diamond Life Brand, Gupta Permold Corporation: [www.diamondblifegear.com](http://www.diamondblifegear.com).
- B. Vibration Isolation Pads: Homogeneous blend of rubber elastomers and synthetic fiber cords.
  1. Size: 6 inch x 6 inch x 3 inch thick.
  2. Quantity: 12.
  3. Hardness (Shore A): 75.
  4. Compressive strength: 8,000 psi.
  5. Loading Limits:
    - a. Static: 2000 psi.

- b. Dynamic: 1000 psi.
- 6. Manufacturer: Model NDM manufactured by Kinetics Noise Control:  
www.kineticsnoise.com.

#### 2.06 FABRICATION

- A. Fit and shop assemble items in largest practical sections for delivery to site.
- B. Fabricate items with joints tightly fitted and secured.
- C. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.
- D. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.
- E. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

#### 2.07 FINISHES - FERROUS METAL

- A. Prime paint steel items.
- B. Prepare surfaces to be primed in accordance with SSPC-SP2.
- C. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.
- D. Prime Painting: One coat.
- E. Field Painting: Section 09 90 00.

#### PART 2 EXECUTION - NOT USED

END OF SECTION

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SECTION 13 21 26  
COLD STORAGE ROOMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Scope of Work includes purchase and delivery of the following equipment and accessories. Installation by others.
- B. Prefabricated insulated cold storage rooms with wall, floor, and ceiling panels.
- C. Door, frame, and hardware.
- D. Refrigeration coils to function with remote unit.
- E. Controls and lighting.
- F. Shelving and supports.

1.02 REFERENCE STANDARDS

- A. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2010.
- B. ASTM A792/A792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process; 2010.
- C. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2004 (Reapproved 2012).
- D. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation; 2010.
- E. NSF 7 - Commercial Refrigerators and Freezers; NSF International; 2009.
- F. NEMA MG 1 - Motors and Generators; National Electrical Manufacturers Association; 2011.
- G. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- H. UL (EAUED) - Electrical Appliance and Utilization Equipment Directory; Underwriters Laboratories Inc.; current edition.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate layout, room dimensions, materials, components, fasteners, doors, hardware, equipment, finishes, method of installation and assembly, panel placement, supplementary support or bracing, controls, and service rough-in.
  - 1. Indicate locations, sizes, and capacities of refrigeration equipment.
  - 2. Indicate utility connection points.
- C. Wiring Diagram: Furnish wiring diagrams and tabulation of amperage load on each leg at each point of connection.
- D. Product Data: Provide data on hardware, fixtures, joint details, panel insulation, refrigeration units and controls.
- E. Samples: Submit two samples 6 x 6 inch in size illustrating panel finish .
- F. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention .

- G. Certificates: Certify that products of this section meet or exceed specified requirements.
- H. Operation Data: Include operating equipment, service and lubrication schedules .
- I. Test Reports.
- J. Keys: At Substantial Completion, deliver keys with identifying tags to designated representative of Owner, secure a receipt and send receipt to Architect.
- K. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

#### 1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than 10 years of documented experience.
- B. Fabricator Qualifications: Company with not less than 10 successfully installed units of similar scope.
- C. Accessibility Compliance: Comply with TAS, ADAAG and ANSI/ICC A 117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.

#### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Wrap and crate finished components and assemblies at factory to prevent damage or marring of surfaces during shipping and handling.
- B. Do not deliver materials or assemblies to site until installation spaces are ready to receive units.

#### 1.06 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Provide ten year manufacturer warranty for panels and doors.
- C. Provide five year manufacturer warranty for integral refrigeration compressor unit.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Cold Storage Rooms:
  - 1. Bally Refrigerated Boxes, Inc.: [www.ballyrefboxes.com](http://www.ballyrefboxes.com)
  - 2. Thermo Kool/Mid-South Industries, Inc.: [www.thermokool.com](http://www.thermokool.com)
  - 3. Nor-Lake Scientific: [www.norlake.com](http://www.norlake.com)
  - 4. Kolpak Refrigeration, Inc.: [www.kolpak.com](http://www.kolpak.com)
  - 5. Substitutions: See Section 01600 - Product Requirements.

#### 2.02 COLD STORAGE ROOMS

- A. Cold Storage Rooms: Factory-fabricated packaged units, comprised of modular panels, equipment, and fittings.
  - 1. Room Dimensions:
    - a. Minimum size: Refer to drawings.
    - b. Size rooms to fill dimensioned clear spaces with maximum perimeter clearance of 2 inches each side.
    - c. Height: Manufacturer's standard, but not less than 8'-6" outside overall, excluding closure panels above rooms.
  - 2. All exposed components non-combustible.
  - 3. Electrical Equipment: Listed and classified by UL as suitable for the purpose specified and indicated.

- B. Performance Requirements:
1. Wall Panels: Withstand live lateral load of 100 lbs point load, 5 psf uniform load.
  2. Ceiling Panels: Withstand their own weight, dead loads, and live loads of 50 psf uniform load with maximum deflection of 1:180.
  3. Floor Panels: Withstand 100 psf uniform load without physical damage or indentation of panel or insulation and a point load of 300 psf without indentation.
  4. Temperature Range: Between minus 39 degrees F. and minus 112 degree F.
  5. Air Tightness of Assembled Unit: Limit air infiltration through assembly to 0.06 cu ft/min/sq ft of wall area, measured at a reference differential pressure across assembly of 1.57 psf as measured in accordance with ASTM E283.
  6. Vapor Seal: Interior room atmospheric pressure of 1 inch sp, 72 degrees F, 40 percent RH: No failure.
  7. Vapor Tightness: Sufficient to eliminate frost accumulation.
  8. Interior Light Level: Uniform light level of 70 footcandles minimum at 40 inches above floor.
  9. Refrigeration Systems: Units designed to operate with CFC and HCFC-free refrigerants.
  10. Closed-Cell High-Density Polyurethane: Expanded in place with CFC and HCFC-free blowing agents.

## 2.03 COMPONENTS

- A. Wall Panels: Comprising the following:
1. Exterior Sheet: 0.020 inch sheet steel.
  2. Interior Sheet: 0.0375 inch stainless steel.
  3. Core: Insulation bonded to exterior and interior sheets.
  4. Panel Width: 48 inches, one piece floor to ceiling.
  5. Panel Assembly: Tongue and groove edges, integral cam action locking clamps spaced not over 40 inches on center.
- B. Ceiling Panels: Same construction as walls except exterior sheets of 0.0375 inch stainless steel.
- C. Floor Panels: Comprising the following:
1. Wearing Surface: Concrete topping, Section 03 30 00.
  2. Top Sheet: 26 gauge aluminum zinc alloy coated steel.
  3. Bottom Sheet: 26 gauge aluminum zinc alloy coated steel.
  4. Panel Width: 48 inches, one piece wall to wall.
  5. Panel Assembly: Tongue and groove edges, integral cam action locking clamps spaced not over 40 inches on center.
- D. Insulation Thickness: 4 inches.
- E. Doors: Overlap type for 36 x 78 inch opening, construction as for walls but with edges closed; 4 inch thick insulation; flexible gasket containing magnetic strip on four edges .
- F. View Windows: Sealed insulating glass units in doors, triple glass at freezers.
1. Size: 14 x 24 inch.

## 2.04 MATERIALS

- A. Steel Sheet: Aluminum-zinc alloy-coated steel sheet, ASTM A792/A792M, with AZ55/AZM165 coating; 0.030 inch thick.
- B. Stainless Steel Sheet: ASTM A666 Type 304; No. 4 finish, 0.0375 inch thick.
- C. Insulation: Polyurethane foamed-in-place, density 2.2 lb/cu ft, K factor of 0.12, self extinguishing type.
1. Blowing Agent: HFC-134a.

- D. Accessories: Thresholds, closure plates, tie down plates, bolts, screws, and washers; non-corrosive.
- E. Insulating Glass: Hermetically sealed double pane units, 1/4 inch thick lights, clear float glass panes, 5/8 inch unit thickness; certified by independent testing agency to comply with ASTM E2190.
- F. Sealant: Silicone type as specified in Section 07 90 05.
- G. Door Gaskets: Resilient hollow neoprene ; organic grease and oil resistant, replaceable and adjustable, concealed magnetic strip to maintain air tight seal.
- H. Refrigerant Lines:
  - 1. Lines: Type K or Type L copper tubing.
  - 2. Fittings: Wrought copper, assembled by lead-free silver soldering.
- I. Refrigerant Line Insulation:
  - 1. Type: 3/4 inch thick foam plastic.
    - a. Flame Spread (ASTM E 84): 25 or less.
    - b. Smoke Developed (ASTM E 84): 50 or less.

## 2.05 COMPONENTS

- A. Hardware: Cast brass, nylon bearing self closing hinges, roller catch latch and keeper; cylinder lock and inside safety release mechanism.
  - 1. Keys: Provide two keys for Owner.
- B. Shelving and Supports: Stainless steel construction, open rod construction, free standing style.
  - 1. Product: Super Erecta manufactured by InterMetro Industries Corp.
- C. Light Fixtures: Vapor resistant two-lamp fluorescent, low temperature ballasts, rapid start HO type lamps, clear acrylic lens; operating toggle switch on exterior wall of room with pilot light, wired in rigid conduit.
- D. Power Receptacles: 20 amp hospital grade, GFI receptacles with weatherproof cover. Locate two duplex receptacles in each room as indicated on drawings.
- E. Air Vent: Aluminum or steel construction, heated, shall equalize inside-to-outside pressure.

## 2.06 EQUIPMENT

- A. Cooling System: Direct expansion refrigerant, air cooled; room internal condensing unit for each room, evaporator, unit cooler, self contained with valves, controls, switches, timers, refrigerant piping, insulated suction lines, and wiring. Size and capacity to maintain environment specified; electric defrost .
  - 1. Cooling Unit: Locate remote from cold storage rooms on roof. Pipe coolant to cold rooms.
  - 2. Provide stainless steel weather covers for exterior "exposed to weather" condensing units. Equip with "winter controls" for proper operation during cold or wet weather.
  - 3. Refrigerant Charge: R-404A.
- B. Electrical Characteristics:
  - 1. Each room and its controls shall operate from a separate 120/208 volt, 3-phase, 4-wire feeder.
  - 2. Each condensing unit shall operate from a separate 208 volt, 3-phase, 3-wire feeder.
- C. Motor: NEMA MG 1.
- D. Control System Panel: Microprocessor based 16-bit PID controller.
  - 1. Basis of Design: EnviroSmart ES-786 manufactured by EnviroSoft, Inc.:  
[www.envirosoftsystem.com](http://www.envirosoftsystem.com).
  - 2. Low-Voltage Control Console

- a. Metal Housing: Stainless steel, or prepainted white to match room wall panels.
  - b. Cover: Stainless steel frame continuous hinged with clear polycarbonate face, tumbler lock with two keys.
  - c. Mounting: Surface at eye-level, ADA compliant.
  - d. Panel Size: 53 inches long x 17 inches wide x 4 inches deep.
  - e. Location: At cold room, adjacent to strike side of entrance door.
3. Console to include the following:
- a. Main Switch: Toggle operated to activate/deactivate cold room at console, with pilot lights (green for power on, red for power off), or pilot lights indicating heat and cool.
  - b. Display Monitor: Four line high resolution LCD display.
  - c. Main Temperature Controller
    - 1) Soft-touch colored membrane keypad with fluorescent 4-line, 20-character display, 2-level password-protected menu systems.
    - 2) Programmable up to 40 namable profiles.
    - 3) Accurately calibrated solid state electronic type with digital proportional output or on/off output.
    - 4) Provide direct setting of desired operating temperature at any point in operating range.
    - 5) Calibrate in Centigrade, plus/minus 1 degree C resolution.
  - d. Backup Controller
    - 1) Switched into operation in case of main controller failure.
    - 2) Mechanical thermostat type.
    - 3) During operation, alarms not required to operate.
  - e. Temperature Safety Limit Controls
    - 1) Independent high and low limit controls and alarms. Reaching low limit to activate alarm and shut down conditioning system. Upon correction of condition, system to reset and resume normal operation. Reaching high limit to shut down non-essential heat-producing accessories including lights, door heater, drain heaters. Panel to automatically override primary controller, apply power to liquid solenoid valve, defeat hot gas by-pass, and kill power to heating elements in air handler.
    - 2) Audible Alarm: High or low events to sound a horn and activate alarm lights. When horn is silenced, a small flashing light to designate that alarm is silenced. Audible alarm may be silenced by pressing a button which will activate "alarm silenced" light.
    - 3) Building Automation Control Contacts: Provide dry contacts for connection to building automation control system to activate at high or low event, or at power failure. Contacts available for normally open or normally closed. Coordinate with Division 25 and 28.
    - 4) Time Delays: Provide to minimize "false" alarms. Provide an independent silence button for alarm function so that temperature alarm will reactivate even if previously silenced after a mechanical failure.
  - f. Mechanical Failure Alarm: Provide circuit which monitors compressor operation and initiates alarm in event that:
    - 1) Compressor is not running and should be.
    - 2) Unit is short-cycling.
    - 3) Inadvertent power disconnect to condensing unit. Attach a current sensor to one of the compressor leads to provide a "run" indication.
  - g. Temperature Recording Device: Provide USB connected electronic data recorder including software for data translation and download.

- 1) Recording Interval: 1 reading per minute.
  - 2) Memory Capacity: 16,000 temperature readings with an operating range of minus 30 degree C. to 80 degree C.
  - 3) Start date and time selectable current actuated through controller.
  - 4) Quantity: Provide four total.
  - 5) Product: OM-EL-USB-2-Plus manufactured by Omega Engineering Inc.:  
www.omega.com.
- h. Supply Voltage: 120 VAC.
- E. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Enclose terminal lugs in terminal box sized to NFPA 70.
- F. Disconnect Switch: Factory mount disconnect switch in control panel.
- G. Circuit Breakers: Provide circuit breaker protection for lights, controls, and condensing units.
1. Protect each circuit with breakers of proper amperage. Common fuses not acceptable.
  2. In addition to other breakers, provide a circuit breaker type disconnect at each condensing unit.
- H. Refrigerant Alarm: Provide a refrigerant-vapor detection and alarm system, located in an area where refrigerant from a leak will concentrate, which shall actuate an alarm and stop the flow of refrigerant to evaporators in accordance with Section 1120 of the Uniform Mechanical Code. Include audible and visual strobe alarm and battery back-up.
1. Manufacturer: Thermal Gas Systems, Inc.: www.thermalgas.com
  2. Product: Haloguard
- I. Access Control Interface: Provide Wiegand to RS232 serial converter for each card reader and rout wiring to feed signal to the coldroom programmable logic controller (PLC) for the control panel. Card reader Owner furnished and installed.

## 2.07 FINISHES

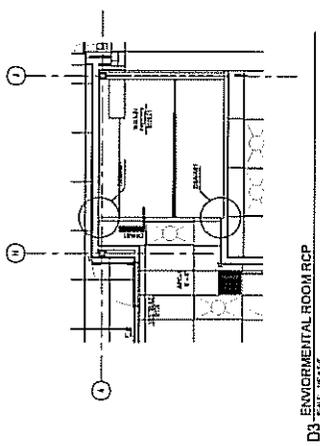
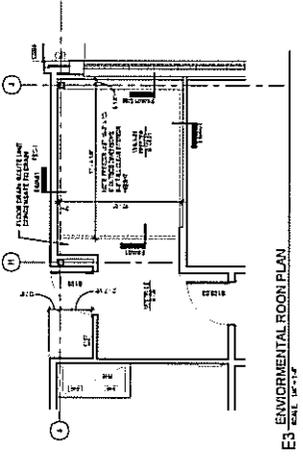
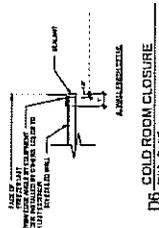
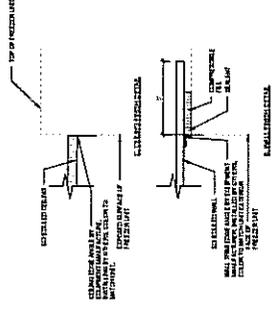
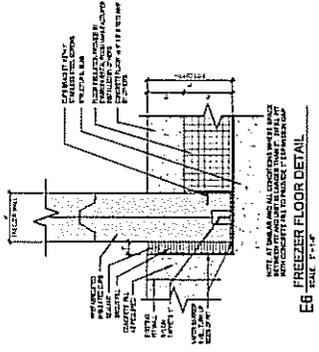
- A. Exterior Aluminum Cladding: White color. Baked acrylic enamel.
- B. Interior Stainless Steel Cladding: No. 4 finish.
- C. Hardware: Polished chrome.

## PART 3 EXECUTION - NOT USED

END OF SECTION



REF PLAN

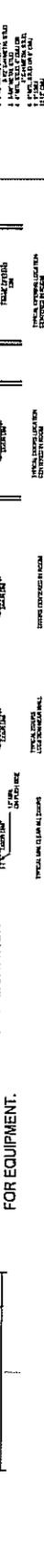
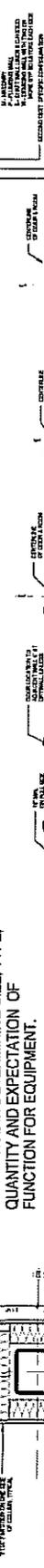
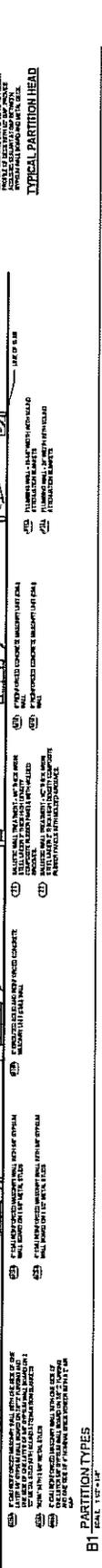
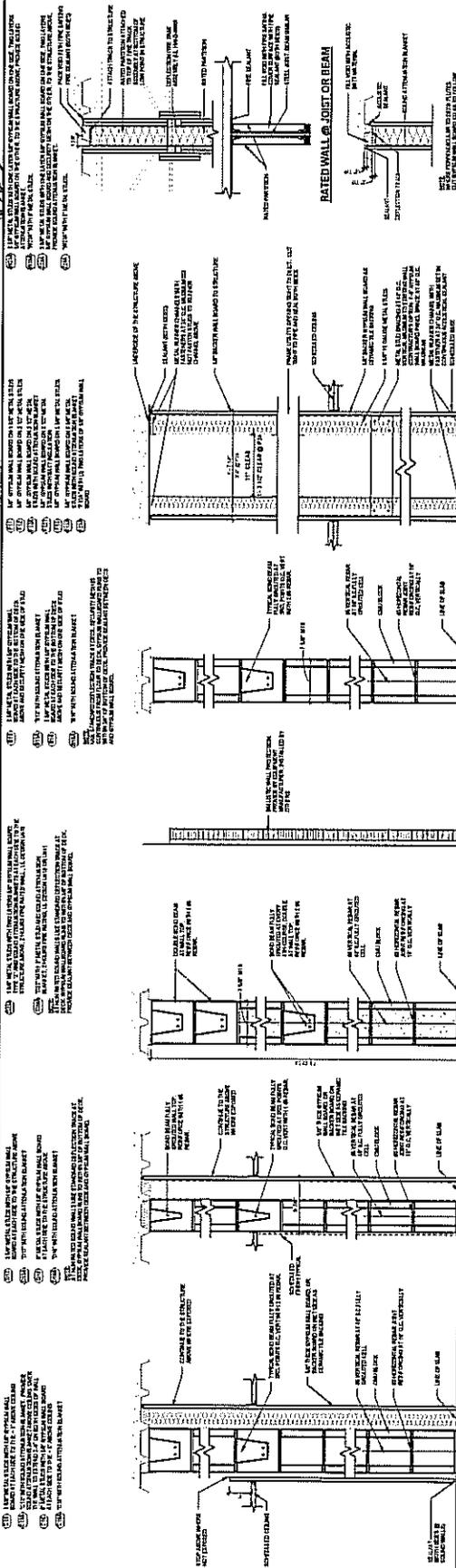
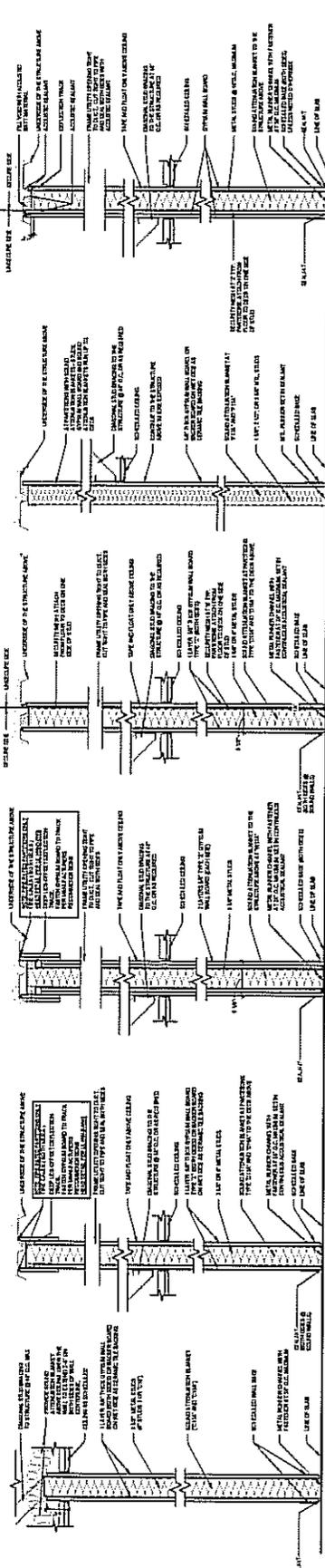


**GENERAL NOTES TO ENVIRONMENTAL ROOM**

A. THIS DOCUMENT IS PROVIDED FOR REFERENCE IN DETERMINING SIZE, TYPE, QUANTITY AND EXPECTATION OF FUNCTION FOR EQUIPMENT.

B. INSTALLATION OF EQUIPMENT IS NOT INCLUDED AS PART OF THIS SOLICITATION FOR EQUIPMENT.

Revision Number	Date	Revision Description





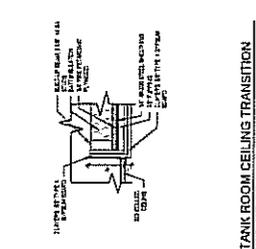
Revision Number	Revision Date	Revision Description



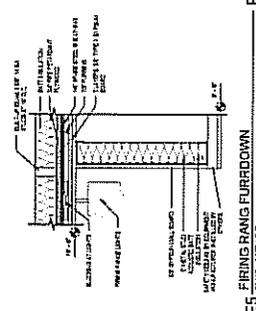
1000 West 17th Street  
 Laredo, Texas 78040  
 349.513.1100

DESIGNED BY WHR ARCHITECTS  
 PROJECT NO. 17-0000000000  
 DATE: 01/2018

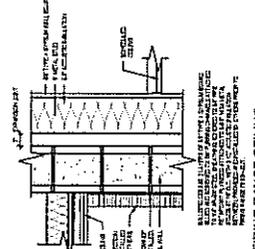
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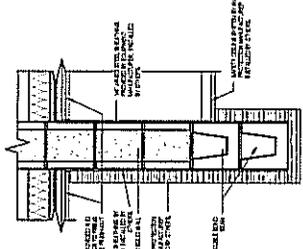
**E8 FIRING RANGE FURREDDOWN**  
 SCALE: 1/8" = 1'-0"



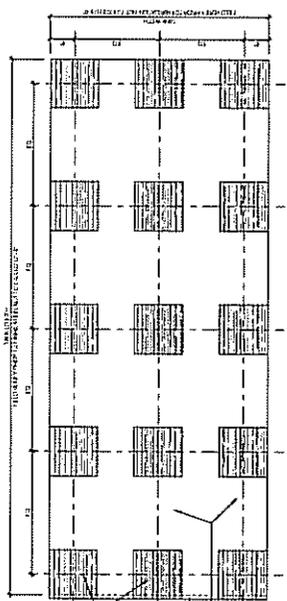
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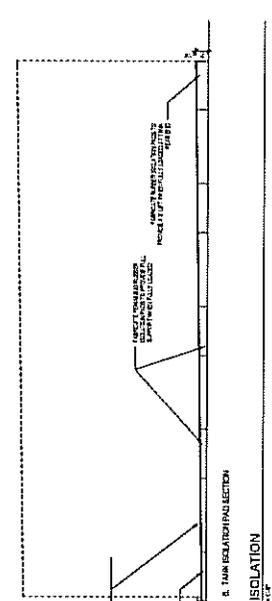
**D6 FIRING RANGE CEILING**  
 SCALE: 1/8" = 1'-0"



**B6 OPENING AT TANK RIM/FIRING RANGE**  
 SCALE: 1/8" = 1'-0"



**A. TANK ISOLATION FOOTPRINT**



**B. TANK ISOLATION SECTION**



**C3 TANK ISOLATION**  
 SCALE: 1/8" = 1'-0"

**GENERAL NOTE:**  
 A. THIS DOCUMENT IS PROVIDED FOR REFERENCE IN DETERMINING SIZE, TYPE, QUANTITY AND EXPECTATION OF FUNCTION FOR EQUIPMENT.  
 B. INSTALLATION OF EQUIPMENT IS NOT INCLUDED AS PART OF THIS SOLICITATION FOR EQUIPMENT.

## Webb County

### Conflict of Interest Disclosure

Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor or person considering doing business with a local government entity disclose in the Questionnaire Form CIQ, the vendor or person's affiliation or business relationship that might cause a conflict of interest with a local government entity. By law, this questionnaire must be filed with the records administrator of Webb County no later than the 7<sup>th</sup> business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code. A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor. The questionnaire may be viewed and printed by following the link before:

By submitting a response to this request, the vendor represents that it is in compliance with the requirements of Chapter 176 of the Texas Local Government Code.

The Webb County Officials who come within Chapter 176 of the Local Government Code relating to filing of Conflict of Interest Questionnaire (Form CIQ) include:

1. Webb County Judge Danny Valdez
2. Commissioner Miguel Montemayor
3. Commissioner Rosaura "Wawi" Tijerina
4. Commissioner John Galo
5. Commissioner Jaime Canales
6. Judge Joe Lopez, Chairman, 49<sup>th</sup> Judicial District
7. Judge Becky Palomo, 341<sup>st</sup> Judicial District
8. Judge Monica Notzon, 111<sup>th</sup> Judicial District

Please send completed forms to the Webb County Clerk's Office located at 1110 Victoria, Suite 201, Laredo, Texas 78040.

**CONFLICT OF INTEREST QUESTIONNAIRE**  
For vendor or other person doing business with local governmental entity

**FORM CIQ**

This questionnaire reflects changes made to the law by H.B. 1491, 80th Leg., Regular Session.  
This questionnaire is being filed in accordance with Chapter 176, Local Government Code by a person who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the person meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. See Section 176.006, Local Government Code.

A person commits an offense if the person knowingly violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

**OFFICE USE ONLY**

Date Received

**1** Name of person who has a business relationship with local governmental entity.

**2**  Check this box if you are filing an update to a previously filed questionnaire.

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

**3** Name of local government officer with whom filer has employment or business relationship.

\_\_\_\_\_  
Name of Officer

This section (Item 3 including subparts A, B, C & D) must be completed for each officer with whom the filer has an employment or other business relationship as defined by Section 176.001(1-a), Local Government Code. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income, other than investment income, from the filer of the questionnaire?

Yes       No

B. Is the filer of the questionnaire receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer named in this section AND the taxable income is not received from the local governmental entity?

Yes       No

C. Is the filer of this questionnaire employed by a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

Yes       No

D. Describe each employment or business relationship with the local government officer named in this section.

**4**

\_\_\_\_\_  
Signature of person doing business with the governmental entity

\_\_\_\_\_  
Date

**CERTIFICATION**  
REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY  
EXCLUSION FOR COVERED CONTRACTS

**PART A.**

Federal Executive Orders 12549 and 12689 require the Texas Department of Agriculture (TDA) to screen each covered potential contractor to determine whether each has a right to obtain a contract in accordance with federal regulations on debarment, suspension, ineligibility, and voluntary exclusion. Each covered contractor must also screen each of its covered subcontractors.

In this certification "contractor" refers to both contractor and subcontractor; "contract" refers to both contract and subcontract.

By signing and submitting this certification the potential contractor accepts the following terms:

1. The certification herein below is a material representation of fact upon which reliance was placed when this contract was entered into. If it is later determined that the potential contractor knowingly rendered an erroneous certification, in addition to other remedies available to the federal government, the Department of Health and Human Services, United States Department of Agriculture or other federal department or agency, or the TDA may pursue available remedies, including suspension and/or debarment.
2. The potential contractor will provide immediate written notice to the person to which this certification is submitted if at any time the potential contractor learns that the certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
3. The words "covered contract", "debarred", "suspended", "ineligible", "participant", "person", "principal", "proposal", and "voluntarily excluded", as used in this certification have meanings based upon materials in the Definitions and Coverage sections of federal rules implementing Executive Order 12549. Usage is as defined in the attachment.
4. The potential contractor agrees by submitting this certification that, should the proposed covered contract be entered into, it will not knowingly enter into any subcontract with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the Department of Health and Human Services, United States Department of Agriculture or other federal department or agency, and/or the TDA, as applicable.

Do you have or do you anticipate having subcontractors under this proposed contract?

Yes

No

5. The potential contractor further agrees by submitting this certification that it will include this certification titled "Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion for Covered Contracts" without modification, in all covered subcontracts and in solicitations for all covered subcontracts.
6. A contractor may rely upon a certification of a potential subcontractor that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered contract, unless it knows that the certification is erroneous. A contractor must, at a minimum, obtain certifications from its covered subcontractors upon each subcontract's initiation and upon each renewal.
7. Nothing contained in all the foregoing will be construed to require establishment of a system of records in order to render in good faith the certification required by this certification document. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
8. Except for contracts authorized under paragraph 4 of these terms, if a contractor in a covered contract knowingly enters into a covered subcontract with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the federal government, Department of Health and Human Services, United States Department of Agriculture, or other federal department or agency, as applicable, and/or the TDA may pursue available remedies, including suspension and/or debarment.

**PART B. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION FOR COVERED CONTRACTS**

Indicate in the appropriate box which statement applies to the covered potential contractor:

- The potential contractor certifies, by submission of this certification, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this contract by any federal department or agency or by the State of Texas.
- The potential contractor is unable to certify to one or more of the terms in this certification. In this instance, the potential contractor must attach an explanation for each of the above terms to which he is unable to make certification. Attach the explanation(s) to this certification.

Name of Contractor	Vendor ID No. or Social Security No.	Program No.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed/Typed Name and Title of  
Authorized Representative

## COUNTY OF WEBB

### **Terms and Conditions of Invitations for Bids/Proposals**

1. GENERAL CONDITIONS:

Proposers/Bidders are required to submit their proposals upon the following expressed conditions:

- (A) Proposers shall thoroughly examine the scope of work and layouts, instructions and all other contract documents.
- (B) Proposers shall make all investigations necessary to thoroughly inform themselves regarding plant and facilities for delivery of materials and equipment as required by the bid conditions. No plea of ignorance by the bidder of conditions that exist or that may hereafter exist as a result of failure to fulfill in every detail the requirements of the contract documents of the County or the compensation of the vendor.
- (C) Proposers is advised that all County contracts are subject to all legal requirements provided for in county, state and federal statutes and regulations.

2. PREPARATION OF BIDS/PROPOSALS:

Proposals will be prepared in accordance with the following:

- (A) Unit prices shall be shown and where there is an error in extension of prices, the unit price shall govern.
- (B) Alternate bids will not be considered unless specifically requested within the proposal package.
- (C) Proposed Period of Performance (POP) must be shown and shall include Sundays and holidays.
- (D) Bidders will not include Federal taxes or State of Texas limited sales excise and use taxes in bid prices since the County of Webb is exempt from payment of such taxes. An exemption certificate will be signed where applicable upon request.

3. DESCRIPTION OF SUPPLIES:

Any catalog or manufacturer's reference used in describing an item is merely descriptive, and not restrictive, unless otherwise noted, and is used only to

indicate type and quality of material. Bidders are required to state exactly what they intend to furnish otherwise they shall be required to furnish the items as specified.

4. SUBMISSION OF BIDS/PROPOSALS:

- (A) Bids/Proposals and changes thereto shall be enclosed in sealed envelopes addressed to the Webb County Clerk. The name and address of the bidder, the date of the proposal opening and the material or service bid on shall be placed on the outside of the envelope.
- (B) Bids/Proposals must be submitted in the forms furnished. Electronic bids/proposals will not be considered. Bids/Proposals, however, may be modified by written notice provided such notice is received at the County Clerk's Office before the time and date set for the proposal opening.
- (C) Samples, when required, must be submitted within the time specified, at no expense to the County of Webb. If not destroyed or used up during testing, samples will be returned upon request at the proposer expense.

5. REJECTION OF BIDS/PROPOSALS:

- (A) The Purchasing Agent may reject a bid/proposal if it is deemed to be non responsive and/or provided by not responsible bidder/proposer.
- (B) No bid/ proposal submitted herein shall be considered if the proposer owes any delinquent taxes to the County of Webb at the time proposals are opened. In the event that the successful proposer herein subsequently becomes delinquent in the payment of his or its County taxes, such fact shall constitute grounds for cancellation of the contract.
- (C) No bid/proposal submitted herein shall be considered unless the bidder/proposer warrants that upon execution of a contract with the County of Webb, the bidder/ proposer will not engage in employment practices which have the effect of discriminating against employees or prospective employees because of race, color, sex, creed, disability, or national origin and will submit such report as the County may thereafter require to assure compliance.
- (D) The County may, however, reject all proposals whenever it is deemed in the best interest of the County to do so, and may reject any part of a bid. County may also waive any minor informalities or irregularities in any bid.

6. WITHDRAWAL OF BIDS/PROPOSALS:

Proposals may not be withdraw after the closing time and date.

7. LATE BIDS/PROPOSALS OR MODIFICATIONS:

Proposals and modifications received after the time set for the proposal submission will not be considered.

8. CLARIFICATIN OR OBJECTION TO PROPOSAL SPECIFICATIONS:

If any person contemplating submitting a proposal for this contract is in doubt as to the true meaning of the specifications, or other bid/proposal documents or any part thereof, the bidder/proposer may submit to the Purchasing Agent on or before five days prior to scheduled opening a request for clarification. All such requests for information shall be made in writing and the person submitting the request will be responsible for its prompt delivery. Any interpretation of Webb County proposal package specification instructions, if made, will be made only by Addendum duly issued. A copy of such Addendum will be posted on the web-site and email to the vendors list that have received email copy of package. The County will not be responsible for any other explanation or interpretation made or given prior to the award of the contract. Any objections to the specifications and requirements as set forth in this proposal must be filed in writing with the Purchasing Agent on or before five days prior to the scheduled opening.

Where there is a question that will not lead to an addendum, the questions will be made in writing to the Purchasing Department. The answer will be in writing posted on the website for everyone to receive the same response.

9. DELINQUENT TAXES:

All vendors seeking to do business with Webb County must owe no delinquent taxes to the County. Attestation of owing no delinquent taxes will be required. If a vendor owes taxes to Webb County, those taxes should be paid before submitting a proposal.

10. AWARD OF CONTRACT:

- (A) The contract will be awarded to the best qualified according to the bid/proposal criteria and a written award letter will be issue.
  - (1) Award of a bid/proposal requires formal approval by the Commissioners Court.
  - (2) Bid/Proposal contract must also be approved by the Commissioners Court.
  - (3) The written notice to proceed will be provided after all contract documents are signed.

- (D) Prices must be quoted F.O.B. Webb County with all transportation charges prepaid, unless otherwise specified in the Invitation for Bids/Proposals.
- (E) Delivery time will be considered in breaking of tie proposals.
- (F) Period of Performance will commence with written Notice to Proceed.

11. BID BOND

A bid bond in the amount of 5% of the Bid/Proposal issued by an acceptable surety company shall be submitted with each bid. A certified check or Bank Draft payable to the Webb County may be submitted in lieu of the Bid Bond. All such bonds, cashier checks shall be drawn payable to Webb County.

12. PERFORMANCE AND PAYMENT BOND

A Performance Bond is require for construction work if the contract is in excess of \$100,000; and a Payment Bond is require if the contract is in excess of \$25,000. The requirements is for all prime contractors which enter into a formal contract with the State, any department, board, agency, municipality, county, school district or any division or subdivision.

The failure of the successful bidder to execute the agreement and supply the required bonds within ten (10) days after the prescribed forms are presented for signature, or within such extended period as Webb County may grant, shall constitute a default and the Webb County may, at its option either award the contract to next lowest responsible bidder, or re-advertise for bids. In either case, the Webb County may charge against the bidder the difference between the amount of the bid, and the amount for which a contract is subsequently executed irrespective of whether this difference exceeds the amount of the bid bond. If a more favorable bid is received through re-advertisement, the defaulting bidder shall have no claim against Webb County for a refund.

13. WORKERS' COMPENSATION INSURANCE COVERAGE:

The Workers' Compensation Commission has adopted Rule 110.110 effective with all bids advertised after September 1, 1994. The TWCC has stated that it is aware that a statutory requirement for workers' compensation insurance coverage is not being met. Therefore, Rule 110.110 requires that all bidders be covered under workers' compensation insurance to achieve compliance from both contractor(s) and governmental entities. **Attachment A** is provided in accordance with the requirements on governmental entities. Please read carefully and prepare your bid in full compliance to TWCC Rule 110.110. Failure to provide the required certificates upon submission of a bid could result in your bid being declared non-responsive.

14. REFERENCES:

Webb County requires proposer to supply with this proposal, a list of at least three (3) references where like services have been supplied by their firm. Include name of firm, address, telephone number and name of representative.

15. STATEMENTS:

No oral statement of any person shall modify or otherwise change, or affect the terms conditions, plans and/or specifications stated in the bid/proposal packages.

16. ETHICS:

The proposer shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, of the Webb County Purchasing Department.

17. PROPRIETARY INFORMATION:

All materials submitted to the County become public property and are subject to the Texas Open Records Act upon receipt. If a proposer does not desire proprietary information in the proposal to be disclosed, each page must be identified and marked proprietary a time of submittal. The County will, to the extent allowed by law, endeavor to protect such information from disclosure. The final decision as to what information must be disclosed, however, lies with the Texas Attorney General. Failure to identify proprietary information will result in all unmarked sections being deemed non-proprietary and available upon public request.

PROOF OF NO DELINQUENT TAXES OWED TO WEBB COUNTY

Name \_\_\_\_\_ owes no delinquent property taxes to Webb County.

\_\_\_\_\_ owes no property taxes as a business in Webb County.  
(Business Name)

\_\_\_\_\_ owes no property taxes as a resident of Webb County.  
(Business Owner)

\_\_\_\_\_  
Person who can attest to the above information

**\* SIGNED NOTORIZED DOCUMENT AND PROOF OF NO DELINQUENT TAXES TO WEBB COUNTY.**

The State of Texas

County of Webb

Before me, a Notary Public, on this day personally appeared \_\_\_\_\_, know to me (or proved to me on the oath of \_\_\_\_\_ to be the person whose name is subscribed to the forgoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein expressed.

Given under my hand and seal of office this \_\_\_\_ day of \_\_\_\_\_ 2013.

Notary Public, State of Texas

\_\_\_\_\_

(Print name of Notary Public here)

My commission expires the \_\_\_\_ day of \_\_\_\_\_ 20\_\_.

Bidders Information

Name of Bidder: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Email Address: \_\_\_\_\_

Signature of Person Authorized to Sign Bid:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

Indicate status as to "Partnership", "Corporation", "Land Owner", etc.

\_\_\_\_\_  
\_\_\_\_\_  
(Date)

**Note:**

All submissions relative to these Bids shall become the property of Webb County and are nonreturnable.

If any further information is required please call the Webb County Purchasing Agent, Dr. Cecilia May Moreno, at (956)523-4125 or Administrative Assistant, Leticia Gutierrez, at (956)-523-4127.