



January 22, 2016

## Addendum No. 2

City of San Antonio

Fire Station No. 18

1410 S. W.W. White Rd.

San Antonio, TX

**A/P A2114714**

Cover Letter, Architectural/Structural Changes, Civil Changes, MEP Changes

Attachments:

- CoSA IB 111
- RFI #1 & Response Including Separate Civil Response
  - Revised Special Inspections Application
    - Revised Stormwater Application
    - Artist Installation Drawings
  - Revised Specifications – Includes Architectural & MEP
- Revised Drawing Sheets – Includes Architectural, Civil, Structural, MEP

### CoSA DSD Review Comments

#### Building

1. Plat: Please submit 2 copies of recorded plat when available.  
**Response: Item is acknowledged. The plat has been submitted for final approval; DSD will be notified when approval is complete.**
2. Alternates: Please provide documentation to the City of San Antonio, once it has been decided if the alternates will be used. This will smooth out the future inspection processes.  
**Response: Item is acknowledged. A decision will be made after bidding is complete and DSD will be notified.**
3. Door Hardware: Please provide the door hardware specifications for all doors as per section 1010.1.9, IBC 2015.  
**Response: Specifications attached**
4. Special Inspections: Please confirm that the special inspections correlate with the structural sheets. In addition, please see Information Bulletin 132 for letter format requirements for the letter of determination of special inspections. The letter submitted is for final inspections and will not be accepted.  
**Response: Corrected form attached**
5. Deferred Submittals (not a denial comment): The following items have been noted as deferred submittals: pre-engineered steel frame structure, light gage metal exterior wall framing, light gage steel trusses. **Item is acknowledged.**

#### Fire

1. Fire Lane Marking Fire inspector to verify that all required areas and any highlighted areas on the site plan have been properly identified as fire depart. Access (fire lanes) \_in accordance with Section 503 and COSA amendments to the 2015 IFC. Signs to be posted at the expense of the owner, at the designated locations, lettered? Fire Lane - No Parking at any Time City Ord.

54547?. Such signs shall be of standard size and color, of standard lettering and mounting, conforming to specifications established by the Director of Public Works. In addition to the signs, the owners of such designated premises at their option, or, if so directed by the Fire Chief or his designee, shall paint all fire lane curbs red with white-stenciled letters stating "Fire Lane, No Parking". Lettering for the curbs shall use 4 inch lettering with a distance of not more than 40 feet between wording.

**Response: Item is acknowledged. Refer to Drawing Sheet C8**

- 2) Fire Extinguishers Portable fire extinguishers are required per 2015 IFC Section 906. See also City of San Antonio amendments to IFC and NFPA 10. Fire extinguishers shall be installed in Business occupancies; where flammable or combustible liquids are stored, used or dispensed; fire extinguishers shall be installed within 30 feet of commercial cooking equipment; special hazards areas but not limited to computer rooms, generator rooms, outdoor cooking facilities, electrical, storage and mechanical rooms.

**RESPONSE: Fire Extinguisher size and type are specified on Drawing Sheet A0.1; installation height is detailed on Drawing Sheet A0.2; Locations are detailed on drawing 1/A2.1 – See attached Key Legend**

- 3) Flammable/Combustible Liquids (diesel fuel) The storage, use and handling of flammable/combustible liquids shall comply with 2015 IFC Chapter 57. Flammable/combustible liquids storage quantities and arrangement shall comply with 2015 IFC Section 5704. See also COSA amendments to the 2015 IFC. **Item is acknowledged.**
- 4) Above-ground Storage Tank (generator diesel tank) The installation of aboveground storage tanks shall be permitted through the City Of San Antonio Fire Marshal's Office at 1901 S. Alamo, San Antonio, TX 78283 PH:(210) 207-8410 FX:(210) 207-7949. **Item is acknowledged.**
- 5) Sprinkler Riser Room Fire protection equipment shall comply with 2015 IFC Section 509 and Section 901 **Item is acknowledged.**
- 6) Carbon Monoxide Detection City of San Antonio IBC Amendments 304.1 classify Fire Stations as Business occupancies when installed with automatic smoke detection systems and smoke alarms. Business occupancies are not required to have carbon monoxide detection. Group R (dorm rooms) are required to have carbon monoxide detection. The Fire Station will operate fuel-burning appliances throughout the building which has communicating spaces to areas such as the sleeping quarters. As a recommendation, carbon monoxide detection should be installed in other locations besides the sleeping quarters. Refer to 2015 IFC Section 915.

**RESPONSE FROM CNG ENGINEERING, PLCC: "The electrical plans indicate dual function carbon monoxide detectors in combination with both the heat and the smoke detectors throughout the building. Reference Sheet E0.1 Fire Alarm Symbols Legend and Sheet E4.1 for device types and layout.**

**TAS Items: (See Attached TAS Review Report)**

- 308 Per previous correspondence the counter may be 36" A.F.F. as it is work/control station utilized solely by SAFD/EMS staff
- 403 2. Running slope / accessible route is clarified **RE: REVISED ATTACHED DRAWING SHEET C10**
- 404 1. Per previous correspondence Door 100 may remain 24" provided a sign is provided indicating closet is for "STAFF ONLY - TO REMAIN UNLOCKED". – **RE: REVISED ATTACHED SIGN SCHEDULE – DRAWING A0.2**

- 2. Door threshold clarified to show compliance – **RE: REVISED ATTACHED DRAWING 20/A8.1**
- 4. Vision Panel dimensions clarified – **RE: ATTACHED REVISED DRAWING 1/A8.1**
- 406 2. Curb ramps amended **RE: ATTACHED REVISED DRAWING SHEETS C6 & C13**
- 602 Drinking Fountain Dimensions clarified – **RE: ATTACHED REVISED DRAWING 13/A2.6**
- 603 Mirror dimensions clarified – **RE: REVISED ATTACHED DRAWING 14/A2.5, 19/A2.5, 21/A2.5, 27/A2.5**
- 604 Toilet and accessory dimensions clarified – **RE: REVISED ATTACHED DRAWING 2/A2.5, 3/A2.5, 5/A2.5, 6/A2.5**
- 608 Minimum shower dimension corrected – **RE: REVISED ATTACHED DRAWING 2/A2.5**
- 803 Bench model has been changed to comply - – **RE: REVISED ATTACHED DRAWING 1/A2.3, 13/A2.4 & ACCESSORY SCHEDULE A9.2**
- 804 “K/S” refers to accessible knee space; **RE: REVISED ATTACHED DRAWING 2/A2.6; ADDED DRAWING 19/A2.7**
- 809 Alarm devices clarified **RE: REVISED ATTACHED DRAWING SHEET E4.1**

**SAFD Requested Changes**

- 1. Revise layout & specifications to Bunker Gear (and Alternate Bunker Gear) to add (3) additional lockers **RE: ATTACHED REVISED DRAWINGS 2/A2.1, 2/A2.1A, 2/A2.3, 20/A2.4, ATTACHED REVISED SPEC. SECTION 10 5103 & ATTACHED ADDED SPECIFICATIONS SECTION 10 5104**
- 2. Change, Add, Modify storefront/doors 100A & 129 **RE: ATTACHED REVISED DRAWINGS 1/A2.1, 1/A6.2, 3/A6.2, SCHEDULE A8.1, 1/A8.1, ATTACHED REVISED SPEC. SECTION 08 7100**
- 3. Add door 146H (and resultant changes) **RE: ATTACHED REVISED DRAWINGS 1/A2.1, SCHEDULE A8.1, ATTACHED REVISED SPEC. SECTION 08 7100, 1/S2.1, 5/S4.1**
- 4. Change door hardware schedule (Per Items 2 & 3 above, plus additional hardware changes requested) **RE: ATTACHED REVISED DRAWING SCHEDULE A8.1, ATTACHED REVISED SPEC. SECTION 08 7100**
- 5. Add power at 146.1 & 146.2 at EMS Bay for refrigerators **RE: ATTACHED REVISED DRAWINGS 1/A9.2, ATTACHED REVISED SCHEDULE A9.2, E3.1, E3.1A, E8.1, E8.1A**
- 6. Change Unit Pricing & Allowance Items **RE: ATTACHED REVISED SPECIFICATION SECTION 01 2100**
- 7. Additional IT changes - **RE: REVISED ATTACHED MEP COVER LETTER, DRAWING SHEETS AND SPECIFICATIONS SECTION 27 0000**

**San Antonio Dept. of Creative and Cultural Development Requested Changes – Refer to Artist Drawings (Attached)**

1. Contractor shall arrange a pre-installation meeting with Artist, Architect, Owner (SAFD) and DCCD. **RE: ATTACHED REVISED DRAWING 2/A9.1**
2. Lighting specifications & details from DCCD, Change / Add track lighting and switching from DCCD **RE: ATTACHED REVISED DRAWINGS 1/A4.1, E2.1, E7.1**
3. Add metal fabrication details from DCCD **7/S5.3, 10/S5.3**
4. Change ceiling to gypsum board, add ceiling access panels, change room finishes to coordinate with DCCD **RE: ATTACHED REVISED DRAWINGS 1/A4.1, SCHEDULE A9.1, SPEC. SECTIONS 08 3100**
5. Modify Mechanical vent **RE: ATTACHED REVISED DRAWINGS M2.1, M2.1A**
6. Refer to Artist Drawing for required coordination **RE: ATTACHMENT E – DRAWINGS FROM ARTIST**

### **Request for Information**

1. **RFI No. 1 (See Attached)**

### **Other Changes**

1. Add Speciation Section for Metal Deck Closure Strip – **RE: ADDED SPECIFICATIONS SECTION 05 3100**
2. Change Laminate Finish in Dorm Room Millwork **RE: REVISED SCHEDULE A9.1**
3. Add millwork slide out tray at Joker Stand 128 **RE: REVISED DRAWINGS 1/A2.6**

### **Narrative of Drawing Sheet Changes**

#### **Architectural**

REPLACE DRAWING SHEET A0.2

New door signage to address TAS item

REPLACE DRAWING SHEET A2.1

Clarified Fire Extinguisher legend; SAFD requested door changes

REPLACE DRAWING SHEET A2.1A

SAFD requested locker room changes

REPLACE DRAWING SHEET A2.3

SAFD requested locker room changes; Change to EMS Locker Bench to address TAS item

REPLACE DRAWING SHEET A2.5

Toilet room dimensions clarified to address TAS items

REPLACE DRAWING SHEET A2.6

Clarified drinking fountain and millwork dimensions to address TAS items, millwork change

REPLACE DRAWING SHEET A2.7

Added millwork detail to clarify TAS item.

REPLACE DRAWING SHEET A3.2

Soffit / Fascia details amended

REPLACE DRAWING SHEET A4.1

Ceiling finish changes / added access hatches per Arts Project requirement

REPLACE DRAWING SHEET A5.1

Soffit / Fascia details amended

REPLACE DRAWING SHEET A6.2

SAFD requested door changes

REPLACE DRAWING SHEET A8.1

Door dimensions clarified to address TAS items; door changes per SAFD

REPLACE DRAWING SHEET A8.2

Door changes per SAFD

REPLACE DRAWING SHEET A9.1

Exhibit interior finish changes per Arts project; millwork finish changes

REPLACE DRAWING SHEET A9.2

Locker changes per SAFD; Interior changes to Exhibit 138 per Arts Project

**Architectural Specifications**

REPLACE SPECIFICATIONS SECTION 00 0110

Revisions to Table of Contents

REPLACE SPECIFICATIONS SECTION 00 0115

Revisions to List of Drawings

REPLACE SPECIFICATIONS SECTION 01 2100

Changes to Allowances

OMIT SPECIFICATIONS SECTION 01 2200

Eliminate Unit Pricing

REPLACE SPECIFICATIONS SECTION 05 3100

Specification of metal deck closure strip

REPLACE SPECIFICATIONS SECTION 08 3100

Add specification for attic access panel

REPLACE SPECIFICATIONS SECTION 08 7100

Revisions to door hardware per SAFD requested door and hardware changes

REPLACE SPECIFICATIONS SECTION 10 5103

Revisions to Turnout Gear Lockers per SAFD requested changes

ADD SPECIFICATIONS SECTION 10 5104

Addition to Turnout Gear Locker support frame per SAFD requested changes

**Structural**

REPLACE DRAWING SHEET S2.1

- A. Added notation to support artwork located in the Exhibit room 138.
- B. Added CMU pilaster along east exterior wall of EMS Bay 146 to support jamb between O.H. door and access door.

REPLACE DRAWING SHEET S3.1

Added structural metal roof deck to Elevations 1/S3.1 and 2/S3.1.

REPLACE DRAWING SHEET S3.2

Added structural metal roof deck to Elevation 1/S3.2.

REPLACE DRAWING SHEET S4.1      Added Details 5/S4.1 and 6/S4.1.

REPLACE DRAWING SHEET S5.2

Added structural metal roof deck to Sections 1/S5.2, 2/S5.2, 3/S5.2, 6/S5.2 and 7/S5.2.

REPLACE DRAWING SHEET S5.3

Added details and notation to Sections 7/S5.3 and 10/S5.3 to support suspended artwork located in the Exhibit room 138.

REPLACE DRAWING SHEET S5.4

Added structural metal roof deck to Section 1/S5.4.

REPLACE DRAWING SHEET S5.5

Added structural metal roof deck to Sections 6/S5.5 and 7/S5.5.

January 22, 2016

Mr. Jason D. Wightman, AIA, NCARB  
MSA Architecture  
16719 Huebner Road #3  
San Antonio, TX 78248

Re: COSA Fire Station No. 18  
Addendum 2 Summary

Dear Mr. Wightman:

Below is a summary of the Addendum 2 Revisions:

Sheet C3 – Replaced as Attached

Added detectable warning surfaces to public right-of-way ramps and eliminated 6' ramp.

Sheet C4 – Replaced as Attached

Updated background.

Sheet C6 – Replaced as Attached

Added detectable warning surfaces to public right-of-way ramps, eliminated 6' ramp, and added saw tooth curb.

Sheet C7 – Replaced as Attached

Updated background.

Sheet C8 – Replaced as Attached

Updated background.

Sheet C10 – Replaced as Attached

Revised grading plan to reflect updated background and added spot elevations for basketball court access route.

Sheet C11 – Replaced as Attached

Revised grading plan to reflect updated background.

Sheets C12 – Replaced as Attached  
Updated background.

Please do not hesitate to contact our office should you have any questions or if you need any additional information.

Sincerely,



John Hernandez, P.E.  
President  
Camacho-Hernandez and Associates, L.L.C.  
TBPE Firm No. F-8478

Attachments



RESPONSE TO CITY COMMENTS

**COSA FIRE STATION #18  
CITY OF SAN ANTONIO  
PLAN REVIEW COMMENTS  
APPLICATION NUMBER: # A2114714**



January 22, 2016

CNG Project No.: 0031-14

CNG Engineering, PLLC  
Texas Firm Registration # F-7964

**PLUMBING (12.17.15):**

**COMMENT #1:** COSA amendments section 10-8 (b) construction documents. Construction documents shall be in accordance with items (1) through (5) Information on construction documents. Construction documents shall be dimensioned and drawn upon suitable material. Electronic media documents are permitted to be substituted when approved by the Building official. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this chapter and relevant laws, ordinances, rules and regulations, as determined by the Building Official .(Please provide isometric drawings on drain ,waste ,vent ,water ,and gas for any work included in scope of work.)

**Response:** *Concur; please refer to attached isometric drawings P3.4 and P3.5*

**COMMENT #2:** We are under the 2015 International Fuel Gas Code and COSA Chapter 10 Building Related Codes –supply isometric drawing - supply the Table Number – Total gas load – Total Developed length – and footage between gas appliances.

**Response:** *Concur; please refer to revised gas isometric drawing P3.3 for requested additional information*

**COMMENT #3:** Please show thorough detail showing compliance with all aspects Of COSA Information Bulletin #221.

**Response:** *Energy Compliance letter submitted with permit package.*

**COMMENT #4:** Please show thorough detail showing compliance with all aspects of COSA Information Bulletin #163.

**Response:** *Condensate collection is shown on mechanical drawing sheet M2.1.*

End of document



Date: January 22, 2016  
Project: **Fire Station No. 2**  
CNG Project No.: **0031-14**  
From: CNG Engineering, PLLC  
1917 N New Braunfels Ave. Ste. 201  
San Antonio, Texas 78208



CNG Engineering, PLLC  
Reg. No. F-7964

To: All Sub-Contractors and others to whom Drawings and Specifications have been issued.

**Addendum:** This addendum is generally separated into sections for convenience; however, all contractors, subcontractors,

---

**CHANGES TO DRAWINGS AND SPECIFICATIONS**

---

**ELECTRICAL**

REPLACE DRAWING SHEET: E2.1

- Item 1: Added specialty lighting to Exhibit Room.
- Item 2: Removed Exit sign located at west end of building leading into the Apparatus Bay .

REPLACE DRAWING SHEET: E3.1

- Item 1: Added Refrigerator receptacles in Med. Storage A and Med. Storage B rooms.

REPLACE DRAWING SHEET: E7.1

- Item 1: Added Specialty lighting specification to the lighting fixture schedule.

REPLACE DRAWING SHEET: E8.1

- Item 2: Modified and added circuits to Panel L1 and Panel LPE.

**ELECTRICAL SPECIFICATIONS**

ADD APPROVED MANUFACTURER TO SPEC SECTION 283111

- Item 1: Add Edwards System Technologies. Add Edwards System Technologies as an approved manufacturer to the list of manufacturers to paragraph Part 2 – Products 2.1 Manufacturers A No. 7.

**IT**

REPLACED DRAWING SHEETS: IT4.1 AND IT4.1A

- Item 2: Item 1: Modified General Note no. 9 to sheet.
- Item 3: Item 2: Added apparatus bay door sensors/chime system.

REPLACED Drawing Sheet: IT4.5

- Item 4: Item 2: Made modifications to the floor plan and modified key note no. 11.
- Item 5: REPLACED Specification Section 270000: Basic Requirements for Communications Infrastructure
- Item 6: Item 3: Made modifications to the Specification Section to clarify fire alerting system.

REPLACED DRAWING SHEET: M2.1

- Item 1: Revised location of Airvac 911 exhaust system magnetic door and photo eye sensors.
- Item 2: Added control panel for Airvac 911 exhaust system.

REPLACED DRAWING SHEET: M2.1A

- Item 1: Revised location of Airvac 911 exhaust system magnetic door and photo eye sensors.
- Item 2: Added control panel for Airvac 911 exhaust system.

**PLUMBING**

REPLACED DRAWING SHEET: P3.3

- Item 1: Referenced Table 402.4(1) from the 2015 IFGC, referenced the Gas Summary table and included the total developed length in the notes.

ADDED DRAWING SHEET: P3.4

- Item 1: This new sheet contains the Sanitary Sewer and Vent Riser Diagram.

ADDED DRAWING SHEET: P3.5

- Item 1: This new sheet contains the Domestic Water Riser Diagram.



Re-Submittal     Info only

**FROM**

This form is to accompany two copies of all paperwork and/or drawings to be submitted **along with** a cover letter that includes a brief narrative of the changes/corrections that were made for each trade.

AP #: A2114714  
Project Address: 1410 S. WW WHITE RD.  
Company Name: MSA ARCHITECTURE  
Contact Person: BRENT R ANDERSON, AIA  
Phone #: 210.408.7553 Fax #: 210.408.7538 Mail: brenta@msaotsa.com

**TO**

Trade:	ATTN (Reviewer's name):
<input checked="" type="checkbox"/> Building	<u>LESLIE RUIZ</u>
<input checked="" type="checkbox"/> Fire	<u>ERIK ESCOBEDO</u>
<input type="checkbox"/> Mechanical	_____
<input type="checkbox"/> Electrical	_____
<input checked="" type="checkbox"/> Plumbing	<u>BRUNO FEY</u>
<input type="checkbox"/> Traffic/Sidewalk	_____
<input checked="" type="checkbox"/> Drainage	<u>LEE MUNIZ</u>
<input type="checkbox"/> Tree	_____
<input type="checkbox"/> Landscape	_____
<input type="checkbox"/> Irrigation	_____
<input type="checkbox"/> Health	_____
<input type="checkbox"/> Historical	_____
<input type="checkbox"/> SAWS	_____
<input type="checkbox"/> Neighborhood	_____

Comments: \_\_\_\_\_

Note: This cover letter is for submitting comprehensive revision packets to Plans and Permits. Use only one cover letter per AP being submitted. Do not include revisions for several projects (AP #s) under one cover letter. This cover letter is not for Plan Reviews by Appointment, Preliminary Meetings, Conditional or Partial Permits.



# AIA<sup>®</sup> Document G716<sup>™</sup> – 2004

## Request for Information ("RFI")

**TO:**  
MSA Architecture & Interiors  
16719 Huebner Rd., Bldg. 3  
San Antonio, TX 78248

**FROM:**  
F.A. Nunelly  
2922 N. Pan Am Expressway  
San Antonio, Texas 78208

**PROJECT:**  
Architectural Design Services for Fire Station 18  
W.W. White & Rice Rd.  
San Antonio, TX 78220

**ISSUE DATE:** January 22, 2016      **RFI No.** 001

**PROJECT NUMBERS:** 14012 / 40-00415

**REQUESTED REPLY DATE:**  
**COPIES TO:**

**RFI DESCRIPTION:** *(Fully describe the question or type of information requested.)*

1. Specification section 12 24 00 A.1. indicates both light filtering and blackout fabrics. Please clarify that only blackout shades are intended at the west windows and not both (double) fabrics.
2. The architectural sections and details show structural steel deck above the pre-engineered purlins at the truck bays with rigid insulation and double-lock standing seam roof panels. The structural sections and details do not include this deck or the necessary steel members to complete this detail. Please provide structural details demonstrating this structural deck and please specify what type of deck is intended. As well, please provide structural and eave and rake details demonstrating the support for the metal fascia system at the pre-engineered portion of the project.
3. Details 2/A5.1 and 20/A5.1 differ. Please clarify the support and attachment details at the pre-engineered eave and rake portions of the project.
4. Please provide structural and architectural details for soffit framing at the pre-engineered portion of the project.
5. Please clarify what is intended by the two longer darkly shaded portions on the north sidewalks on Sheet C4. Are these intended to indicate an erosion control system (ex. gravel filter bags)?
6. Please indicate locations for specified wall and corner guards.
7. Please confirm that allowances pertaining strictly to alternates (ex. volleyball and outdoor basketball equipment) are to be carried only within the add alternates themselves and not within the base bid.
8. The table of contents lists termite treatment but no specification is provided. Please clarify if termite treatment is required.
9. The furniture schedule on A9.2 indicates that F-9 Dorm Chair is contractor furnished, contractor installed (CFCI). Please confirm that this is in fact the intention and please provide a specification for this item.
10. There are (2) sets of fixture type "B" and "BE" fixtures on E7.1A

**REFERENCES/ATTACHMENTS:** *(List specific documents researched when seeking the information requested.)*

**SPECIFICATIONS:**

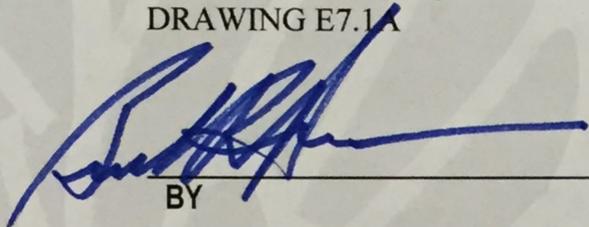
**DRAWINGS:**

**OTHER:**

**SENDER'S RECOMMENDATION:** *(If RFI concerns a site or construction condition, the sender may provide a recommended solution, including cost and/or schedule considerations.)*

**RECEIVER'S REPLY:** (Provide answer to RFI, including cost and/or schedule considerations.)

1. Shade fabric locations is detailed in specifications section 12 24 00 2.02; fabric is to be only Blackout Fabric at west windows as noted and only Translucent Fabric at east windows as noted.
2. Structural steel deck shall be provided over pre-engineered purlins RE: ADDENDUM 2 ATTACHED REVISED DETAILS 11/A3.2, 13/A3.2, 16/A3.2, 2/A5.1, 20/A5.1, 21/A5.1, 10/A7.1, 11/A7.1, 1/S3.1, 2/S3.1, 1/S3.2, 5/S4.1, 6/S4.1, 1/S5.2, 2/S5.2, 3/S5.2, 6/S5.2, 6A/S5.2, 7/S5.3 1/S5.4, 6/S5.5, & 7/S5.5
3. Eave and rake details 2/A5.1 is correct; RE: ADDENDUM 2 ATTACHED REVISED DETAILS (SEE ITEM #2 ABOVE)
4. RE: ATTACHED REVISED DETAILS RE: ADDENDUM 2 REVISED DETAILS (SEE ITEM #2 ABOVE)
5. See attached ATTACHED Response to RFI from Civil Engineer.
6. Per 10 2601 corner guards are to be located at all "outside corners" of walls of finished GWB or Ceramic Tile, some typical locations are noted on drawings on sheets A2.5, A2.6 & A9.1
7. RE: ADDENDUM 2 ATTACHED REVISED SPECIFICATIONS SECTION 01 2100 - ALLOWANCES
8. Termite Treatment specifications are found in Architectural Specifications Section 31 31 16.
9. F-9 has been corrected to the owner furnished, owner installed (OF,OI) - RE: ADDENDUM 2 ATTACHED REVISED SCHEDULE A9.2
10. The second listing of the B and BE fixtures should be eliminated RE: ADDENDUM 2 ATTACHED REVISED DRAWING E7.1A



2016.01.22

BY

DATE

COPIES TO

**Note:** This reply is not an authorization to proceed with work involving additional cost, time or both. If any reply requires a change to the Contract Documents, a Change Order, Construction Change Directive or a Minor Change in the work must be executed in accordance with the Contract Documents.

January 11, 2016

Mr. Jason D. Wightman, AIA, NCARB  
MSA Architecture  
16719 Huebner Road, #3  
San Antonio, TX 78248

Via Email: jasonw@msaofsa.com

Re: COSA FS#18 Pre-Bid Questions  
F.A. Nunnelly Questions

Dear Mr. Wightman:

Below is our response to the F.A. Nunnelly General Contractor Fire Station No. 18 Pre-bid Questions dated January 7, 2016, Question No. 5:

Response: The two longer shaded portions along the north sidewalk represent new sidewalk required to achieve a 6-ft total sidewalk width from back of curb. The storm water measures along the north property line include silt fence and a construction entrance.

We trust that this response addresses the contractor's questions. Please forward this response to the contractor. Please do not hesitate to contact me should you have any questions or if you need any additional information.

Sincerely,



Arturo Camacho, P.E.  
Vice President  
Camacho-Hernandez and Associates, L.L.C.  
TBPE Firm No. F-8478

Attachments



**January 22, 2016**  
**City of San Antonio**  
**114 W. Commerce St., Office 416**  
**San Antonio, TX 78205**

## Determination of Required Special Inspections Section 1704

**Project: City of San Antonio Fire Station No. 18**  
**1401 S. W.W. White Rd.**  
**San Antonio, TX 78220**

**Section 1704** of the *International Building Code*, as amended by the City of San Antonio, has been reviewed. The following is a list of the required special inspections applicable for this project:

2015 IBC Section	Type of Special Inspections and Extent	Applicable	Non Applicable	Continuous or Periodic
1705.1.1	Special Cases		✓	
1705.2	Steel construction – Bolting Steel	✓		Cont. & Periodic
1705.2.1	Steel construction – Welding Steel	✓		Cont. & Periodic
1705.2.2	Steel construction – Other Than Structural	✓		Cont. & Periodic
1705.3	Concrete construction	✓		Cont. & Periodic
1705.4	Masonry construction	✓		
1705.5	Wood construction		✓	
1705.6	Soils	✓		Cont. & Periodic
1705.7	Driven deep foundations		✓	
1705.8	Cast-in-place deep foundations		✓	
1705.9	Helical pile foundations		✓	
1705.10	Fabricated Items	✓		Periodic
1705.11	Special Inspections for wind resistance		✓	
1705.12	Special Inspections for seismic resistance		✓	
1705.13	Testing & qualification of seismic resistance		✓	
1705.14	Sprayed fire-resistant materials		✓	
1705.15	Mastic and intumescent fire-resistant coatings		✓	
1705.16	Exterior insulation and finish systems (EIFS)		✓	
1705.16	Fire-resistant penetrations and joints		✓	
1705.18	Special inspection for smoke control		✓	
1706	Design Strengths of Materials		✓	
1707	Alternative Test Procedures		✓	
1708	Test Safe Load		✓	
1709	In-Situ Load Tests		✓	

At the completion of construction, a final report written by the Registered Design Professional in Responsible Charge that documents all of the special inspections required will be submitted to the building official, via the Owner. It is our understanding that a Certificate of Occupancy will not be issued by the City of San Antonio until this final report is received, indicating that there are no remaining deficiencies.

Respectfully,  
MSA Architecture & Interiors

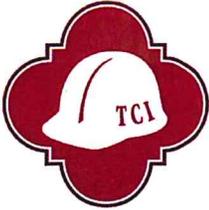


*Brent R. Anderson*  
2014.01.22

---

Brent R. Anderson, AIA, LEED AP® -BD+C

cc: Mr. Mark Beaver, City of San Antonio – Transportation & Capital Improvements



SWMP# \_\_\_\_\_

# REGIONAL STORM WATER MANAGEMENT PARTICIPATION FORM

## General Information

Plat #150192  
 Plat / AP #/ Other: AP# 14012 Name of the Site: COSA Fire Station No. 18  COSA (ICL)  ETJ  
 Address of the Site: 1410 W.W. White Road, San Antonio, TX 78220 BCAD Parcel ID: 1211381  
 Engineer/Contact: Arturo Camacho, P.E. FIRM: Camacho-Hernandez and Associates Phone: (210) 341-6200  
 Owner/Developer: City of San Antonio Phone: (210) 207-2738

## Development Information

The information is mandatory and will be used to calculate the participation fee and to track changes in impervious cover.  
 FILO [Fee in Lieu of Detention] = Increased Impervious Cover (sq. ft.) multiplied by FILO Rate (\$/sq. ft.)

- Type of Development (FILO Rate \$/sq. ft.):
- Public Facilities (\$ 0.20/sq. ft.)
  - Single Family (\$ 0.15/sq. ft.)
  - Multi Family (\$ 0.20/sq. ft.)
  - Inc. of Imp. Cover < 100 sq. ft (No fee)
  - Industrial (\$ 0.20/sq. ft.)
  - Commercial (\$ 0.25/sq. ft.)
  - Detention Provided (no fee)
  - Other (describe work type): \_\_\_\_\_
  - LID (potential reduction- contact TCI Storm Water staff)

Is the property located in any of the development zones below?

- ICRIP: Lot > 20,000 sq. ft. (50% Fee)
- ICRIP: Lot ≤ 20,000 sq. ft. (No Fee)
- IDZ (No Fee)

ICRIP Waiver # (required for reduced fee) \_\_\_\_\_

FILO Previously Paid (\$ or N/A)\*: \$0.00 Paid Date: \_\_\_\_\_ Paid with Plat/Permit #: \_\_\_\_\_

<input type="checkbox"/> Plat Application	<input checked="" type="checkbox"/> Building Permit Application				
Platted Area (acres):	2.629 Acres	Increase/Decrease in Impervious Cover (sq. ft.): [circle one]	37,549 sf	FILO Rate (\$/sq. ft.):	\$0.20/sq. ft
Total FILO (\$): [Increased Imp. Cover X FILO Rate]	\$7,509.80	FILO Previously Paid (\$)*:	\$0.00	Net FILO Due (\$): [Total - Previously Paid]	\$7,509.80

\*Please include supporting documentation as an attachment or in the drainage report.

## Owners Acknowledgment

I am the owner(s) or an agent of the owner, authorized to execute this acknowledgement, of the above described property. It is acknowledged that the proposed development of the property will impact the above noted watershed and that said development falls under the provisions of ordinance No. 86711 passed and approved the 25<sup>th</sup> day of September, 1997 and subsequent amending ordinance 2013-01-31-0074 passed and approved the 31<sup>st</sup> day of January, 2013. Further, it is acknowledged that I have elected to pay a storm water development fee, in the applicable amount as set out in the current fee schedule, in lieu of constructing on-site detention facilities.

Razi Hosseini, P.E., R.P.L.S.

OWNER(S) NAME: TCI Assistant Director

Print

OWNER:

*Razi Hosseini* 1/5/16

Signature

Date

## City Approval

It is acknowledged that the storm water development fee for development of property, as described above, is hereby accepted. It is further acknowledged that said fee shall be placed into the Regional Storm Water Management Program account and shall be used solely in the manner prescribed ordinance No. 86711 passed and approved the 25<sup>th</sup> day of September, 1997 and subsequent amending ordinance 2013-01-31-0074 passed and approved the 31<sup>st</sup> day of January, 2013.

CITY:

*[Signature]*  
 Director of TCI or Designee

1-7-16

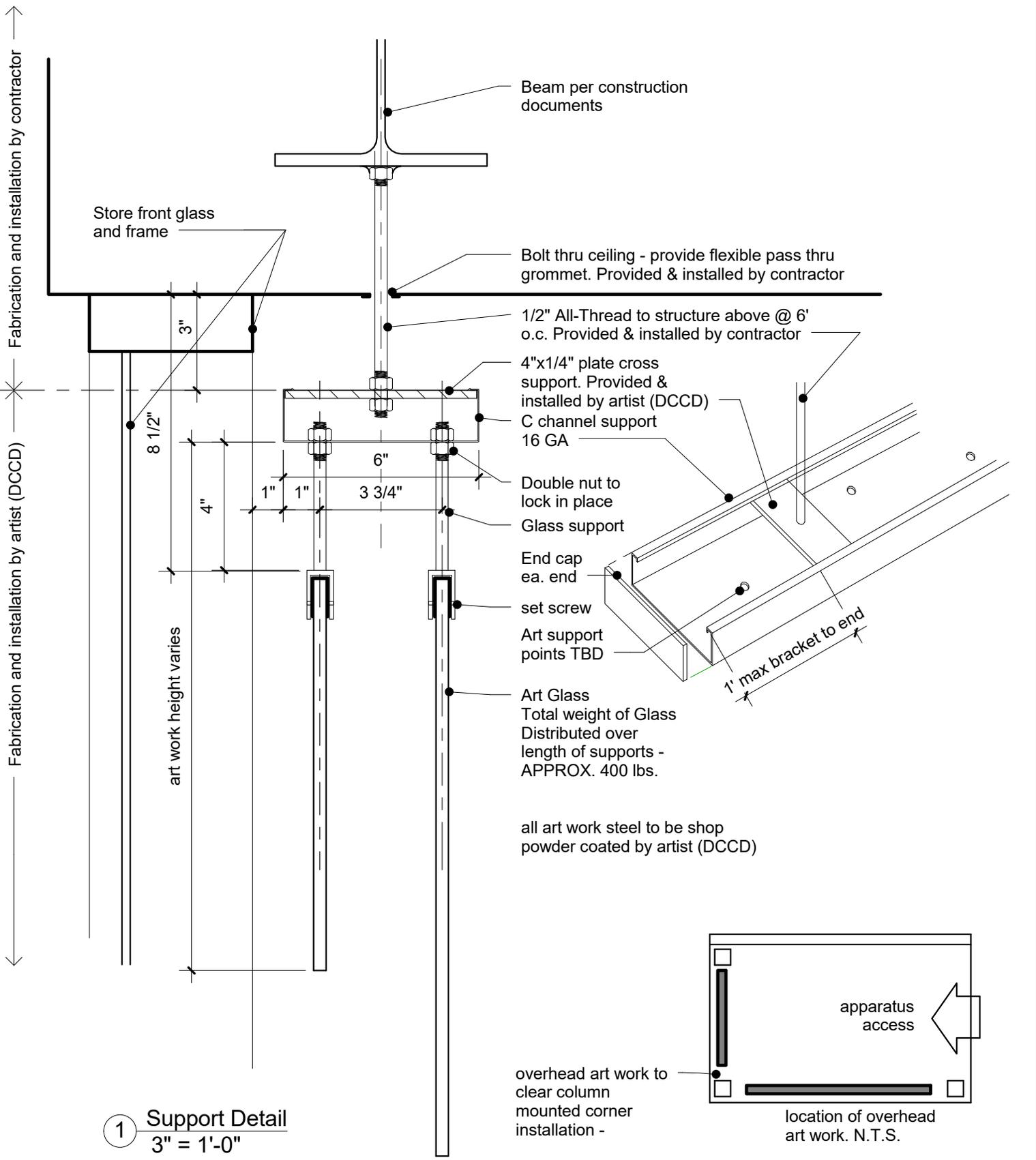
Date

## County Approval (Applicable for ETJ only)

COUNTY REPRESENTATIVE:

Signature

Date

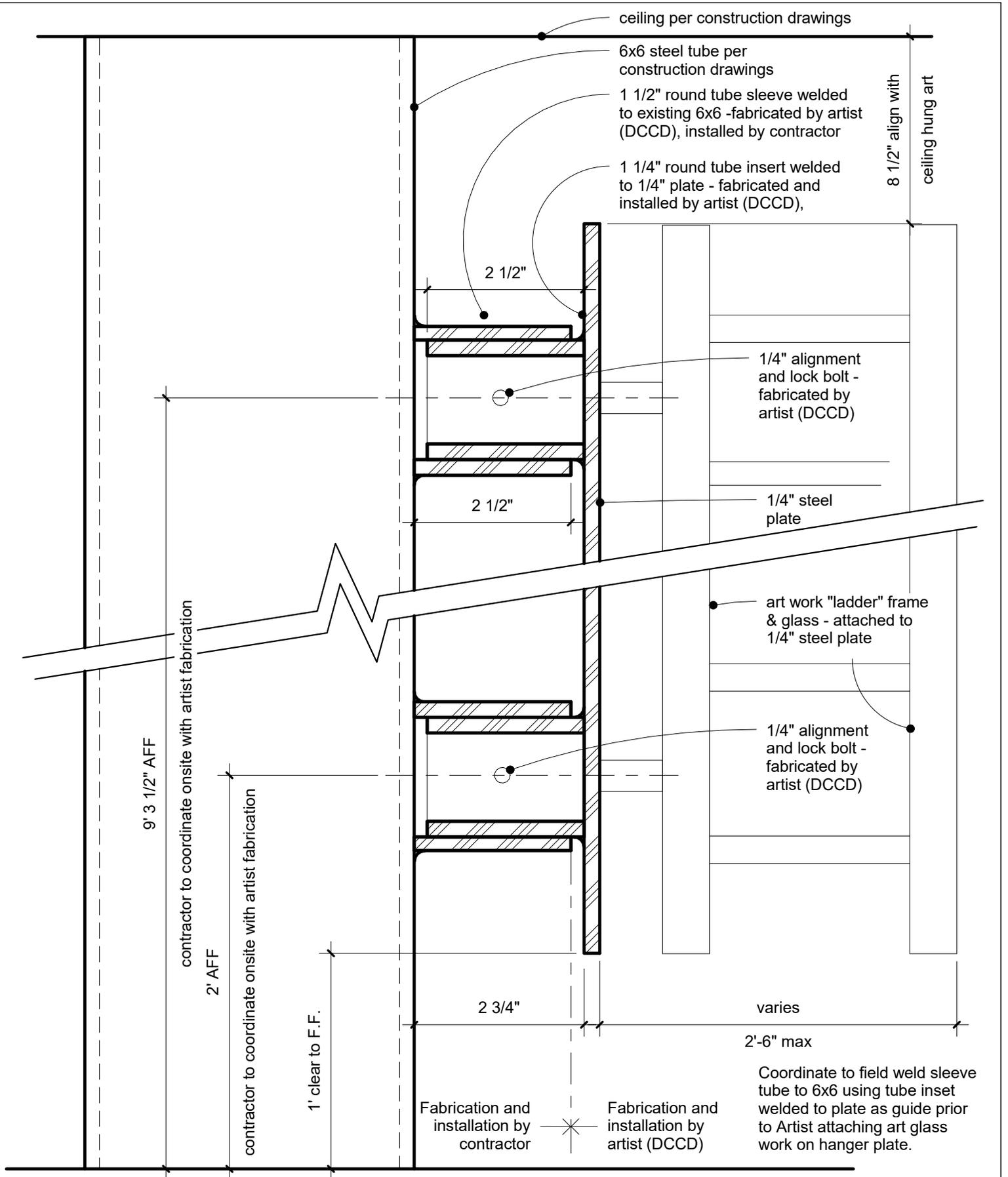


1 Support Detail  
3" = 1'-0"

Cathy Cunningham  
Fire Station - Sculpture

vertical art hanger detail

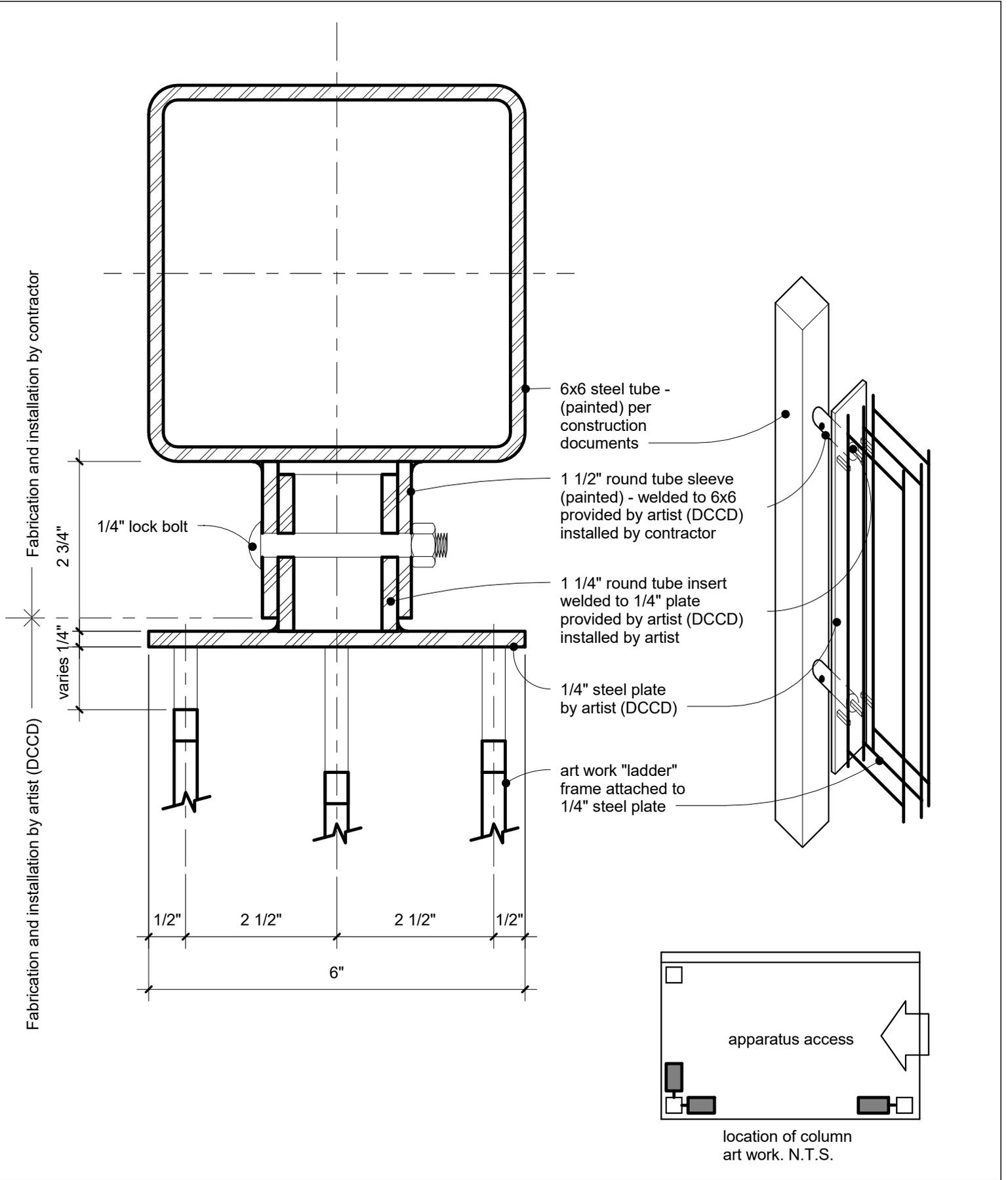
Project number	CC-2015	<b>A101</b>
Date Issued	01-08-16	Scale 3" = 1'-0"



Cathy Cunningham  
Fire Station - Sculpture

column bracket - elevation

Project number	CC-2015	<b>A102</b>
Date Issued	01-08-16	Scale 6" = 1'-0"

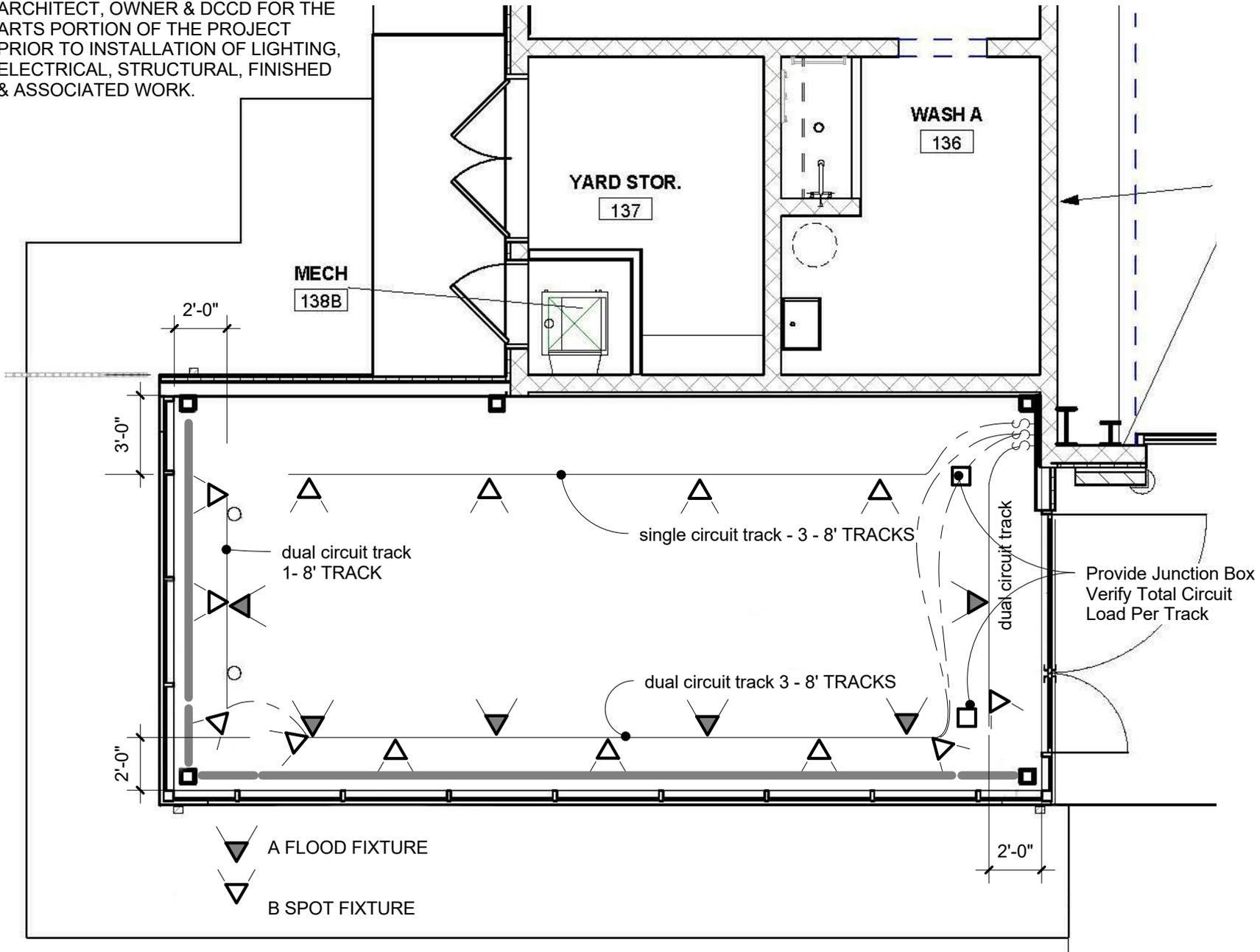


Cathy Cunningham  
Fire Station - Sculpture

column bracket - plan

Project number	CC-2015	<b>A103</b>
Date Issued	01-08-16	Scale 6" = 1'-0"

CONTRACTOR TO ARRANGE A PRE-INSTALLATION MEETING WITH ARTIST, ARCHITECT, OWNER & DCCD FOR THE ARTS PORTION OF THE PROJECT PRIOR TO INSTALLATION OF LIGHTING, ELECTRICAL, STRUCTURAL, FINISHED & ASSOCIATED WORK.



① Level 1  
3/16" = 1'-0"

LIGHTING & CIRCUITS TO BE PROVIDED AND INSTALLED BY CONTRACTOR, COORDINATE PLACEMENT WITH ARTIST.

**LIGHT LOCATIONS**

**Cathy Cunningham  
Fire Station - Sculpture**

Project number CC-2015  
Date Issued 01-08-16  
Scale 3/16" = 1'-0"

**A104**

**SECTION 00 0110  
TABLE OF CONTENTS**

**PROJECT MANUAL ORGANIZATION**

**PROCUREMENT AND CONTRACTING REQUIREMENTS** **VOLUME 1 OF 3**

**ARCHITECTURAL SPECIFICATIONS**

**CIVIL ENGINEERING SPECIFICATIONS**

**LANDSCAPE ARCHITECTURE SPECIFICATIONS**

**STRUCTURAL ENGINEERING SPECIFICATIONS**

**MECHANICAL, ELECTRICAL AND PLUMBING**

**VOLUME 2 OF 3**

**ATTACHMENTS:**

**VOLUME 3 OF 3**

Geotechnical Engineering Report

Fire Flow Test Report

Addressing Information

Proposed Plat

Property Survey

COM Check Reports - Building Envelope, Mechanical, Lighting

CoSA - NPDES & TPDES CGP Inspection Forms

Stormwater Participation Form (Signed by Owner)

TCEQ General Permit

TCEQ Small Construction Site Notice

Tree Permit Application

Traffic Impact Analysis (TIA) Worksheet

City of San Antonio Development Services Department - Information Bulletin 221 - Commercial  
2015 IECC Submittal Requirements

Drainage Report (City of San Antonio Fire Station No. 18 - Plat No. 150192 - Stormwater Water  
Management Plan)

**DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS (\* PROVIDED DIRECTLY  
TO BIDDERS BY THE CITY OF SAN ANTONIO)**

**00 0101 - PROJECT TITLE PAGE**

**00 0102 - PROJECT INFORMATION**

**00 0110 - TABLE OF CONTENTS**

**00 0115 - LIST OF DRAWING SHEETS**

**ADVERTISEMENT FOR BIDS \***

**INSTRUCTIONS TO BIDDERS \***

**00 3100 - AVAILABLE PROJECT INFORMATION**

**CITY OF SAN ANTONIO 020 BID FORM \***

**CITY OF SAN ANTONIO 024 UNIT PRICING FORM \***

**CITY OF SAN ANTONIO 030 QUALIFIED LOW BIDS FORM \***

**AGREEMENT FORM \***

**GENERAL CONDITIONS \***

**SPECIFICATIONS - THE REPRESENTATIONS MADE BY THE SEAL BELOW APPLY ONLY TO THE ARCHITECTURAL SPECIFICATIONS LISTED BELOW. SEE SEPARATE INDEX SHEETS FOR ENGINEERING & LANDSCAPE ARCHITECTURE CERTIFICATIONS.**

**DIVISION 01 – GENERAL REQUIREMENTS (\* PROVIDED DIRECTLY TO BIDDERS BY THE CITY OF SAN ANTONIO)**

**01 1000 - SUMMARY**

**PRICE AND PAYMENT PROCEDURES \***

**01 2100 - ALLOWANCES**

**01 2300 - ALTERNATES**

**01 3000 - ADMINISTRATIVE REQUIREMENTS**

**CONSTRUCTION PROGRESS SCHEDULE \***

**01 4000 - QUALITY REQUIREMENTS**

**01 4533 - CODE-REQUIRED SPECIAL INSPECTIONS**

**TEMPORARY FACILITIES AND CONTROLS \***

**01 6000 - PRODUCT REQUIREMENTS**

**01 6116 - VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS**

**01 7000 - EXECUTION AND CLOSEOUT REQUIREMENTS**

**01 7419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL**

**01 7800 - CLOSEOUT SUBMITTALS**

**01 7900 - DEMONSTRATION AND TRAINING**

**01 9113 - GENERAL COMMISSIONING REQUIREMENTS**

**DIVISION 02 – EXISTING CONDITIONS**

02 4100 - Demolition

02 6300 - Pre-Sloped Channel Drain System

**DIVISION 03 – CONCRETE (NOT USED)**

**DIVISION 04 – MASONRY**

04 0511 - Masonry Mortaring and Grouting

04 2731 - Reinforced Unit Masonry

04 4301 - Stone Masonry Veneer

04 7200 - Cast Stone Masonry

**DIVISION 05 – METALS**

05 3100 - Steel Decking (ARCHITECTURAL - DECK CLOSURE ACCESSORY)

05 5000 - Metal Fabrications

05 5213 - Pipe and Tube Railings

**DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES**

06 0573 - Wood Treatment

06 1000 - Rough Carpentry

06 2000 - Finish Carpentry

06 4100 - Architectural Wood Casework

**DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

07 1918 - Water Repellents



- 07 2100 - Thermal Insulation - Batt Insulation
- 07 2100 - Thermal Insulation - Rigid Insulation
- 07 2400 - Exterior Insulation and Finish System
- 07 2720 - Fluid Applied Air Barrier Assembly
- 07 4113 - Prefinished Double Lock Standing Seam Metal Roofing
- 07 4646 - Fiber Cement Siding
- 07 6200 - Sheet Metal Flashing and Trim
- 07 6510 - Thru-wall Flexible Flashing & Drainage System
- 07 7200 - Roof Accessories
- 07 8400 - Firestopping
- 07 9200 - Joint Sealants

**DIVISION 08 -- OPENINGS**

- 08 1113 - Hollow Metal Doors and Frames
- 08 1416 - Flush Wood Doors
- 08 3100 - Access Doors and Panels
- 08 3613 - Sectional Doors
- 08 3800 - Double-Acting Traffic Impact Doors
- 08 4113 - Aluminum Framed Entrances and Storefronts
- 08 7100 - Door Hardware
- 08 8000 - Glazing
- 08 8300 - Mirrors
- 08 9100 - Louvers

**DIVISION 09 -- FINISHES**

- 09 2116 - Gypsum Board Assemblies
- 09 3000 - Tiling
- 09 5100 - Acoustical Ceilings
- 09 6500 - Resilient Flooring
- 09 6723 - Resinous Flooring
- 09 9113 - Exterior Painting
- 09 9123 - Interior Painting

**DIVISION 10 -- SPECIALTIES**

- 10 1400 - Signage
- 10 2601 - Wall and Corner Guards
- 10 2800 - Toilet, Bath, and Laundry Accessories
- 10 4400 - Fire Protection Specialties
- 10 5103 - Turnout Gear Lockers
- 10 5104 - Free-Standing Tube Wall Structure for GEARGRID Turnout Lockers
- 10 5500 - Postal Specialties
- 10 7500 - Flagpoles

**DIVISION 11 -- EQUIPMENT**

- 11 0001 - Salvage Cover Equipment

- 11 1200 - Parking Control Equipment
- 11 3100 - Residential Appliances
- 11 6623 - Gymnasium Equipment
- 11 6823 - Outdoor Basketball Equipment

**DIVISION 12 -- FURNISHINGS**

- 12 2400 - Window Shades
- 12 3600 - Countertops
- 12 9313 - Bicycle Racks

**DIVISION 13 -- SPECIAL CONSTRUCTION (NOT USED)**

**DIVISION 14 -- CONVEYING EQUIPMENT (NOT USED)**

**DIVISION 31 -- EARTHWORK**

- 31 3116 - Termite Control

**DIVISION 32 -- EXTERIOR IMPROVEMENTS**

- 32 3100 - Steel Roll Gate System
- 32 3113 - Chain Link Fences and Gates
- 32 3119 - Decorative Metal Fences and Gates

**END OF SECTION**

**SECTION 00 0115**  
**LIST OF DRAWING SHEETS**

**TP.0 COVER PAGE**

**A0.1 TITLE PAGE**

**A0.2 ACCESSIBILITY / SIGN SCHEDULE**

**C1 COVER SHEET**

**C2 EXISTING CONDITIONS AND DEMOLITION PLAN**

**C3 DIMENSIONAL CONTROL AND SITE PLAN**

**C4 STORM WATER POLLUTION PREVENTION PLAN**

**C5 VERTICAL SWP3 NARRATIVE (SHEETS 1 AND 2)**

**C6 STRIPING AND PAVING PLAN**

**C7 JOINT PLAN**

**C8 FIRE PROTECTION SITE PLAN**

**C9 ALTERNATES 1, 2, AND 3 PLAN**

**C10 GRADING AND DRAINAGE PLAN**

**C11 GRADING DETAILS**

**C12 OVERALL UTILITY PLAN**

**C13 CIVIL SITE DETAILS**

**C14 CITY OF SAN ANTONIO DETAILS**

**L1.1 TREE PRESERVATION PLAN**

**L2.1 LANDSCAPE PLAN**

**L3.1 IRRIGATION PLAN**

**L3.2 IRRIGATION DETAILS & NOTES**

**D1.1 SITE DEMOLITION & PRE-CONSTRUCTION**

**A1.1 SITE PLAN, ALTERNATES**

**A1.2 ARCHITECTURAL SITE DETAILS**

**A2.1 1RST FLOOR PLAN & EGRESS**

**A2.1A ALTERNATE 1 PLANS**

**A2.2 ENLARGED PARTIAL WEST PLAN & DETAILS**

**A2.3 ENLARGED PARTIAL EAST PLAN & DETAILS**

**A2.4 ENLARGED PLANS & INTERIOR ELEVATIONS**

**A2.5 ENLARGED PLANS & INTERIOR ELEVATIONS**

**A2.6 INTERIOR ELEVATIONS**

**A2.7 MILLWORK SECTION & DETAILS**

**A3.1 BUILDING SECTIONS / ENERGY SUMMARY DIAGRAMS & NOTES**

**A3.2 WALL SECTIONS**

**A3.3 WALL SECTIONS**

**A4.1 REFLECTED CEILING PLAN**

**A4.1A ALTERNATE 1 RCP & ROOF PLAN**

**A5.1 ROOF PLAN / ROOF DETAILS**

**A6.1 BUILDING ELEVATIONS**

**A6.2 BUILDING ELEVATIONS**

**A6.2A BUILDING ELEVATIONS ALTERNATE 1**

**A7.1 SECTION DETAILS**

**A7.2 SECTION DETAILS**

**A7.3 PARTITION TYPES & DETAILS**

**A8.1 DOORS TYPES, SCHEDULES, & DETAILS**

**A8.2 STOREFRONTS, LOUVERS, DETAILS**

**A9.1 FINISH FLOOR PLAN / INTERIOR ROOM FINISH SCHEDULE**

**A9.2 APPLIANCE, EQUIPMENT, FURNITURE PLAN**

**S1.1 STRUCTURAL NOTES**

**S1.2 STRUCTURAL NOTES & SPECIAL INSPECTIONS**

**S2.1 FOUNDATION FRAMING PLAN**

**S2.2 ROOF FRAMING PLAN**

**S2.3 ALTERNATE 1 FRAMING**

**S3.1 BUILDING CROSS SECTIONS**

**S3.2 BUILDING CROSS SECTIONS**

**S3.3 TRUSS ELEVATIONS**

**S4.1 TYPICAL CMU DETAILS**

**S4.2 TYPICAL FOUNDATION DETAILS**

**S4.3 FOUNDATION SECTION & DETAILS**

**S5.1 TYPICAL STEEL DETAILS**

**S5.2 ROOF FRAMING SECTIONS & DETAILS**

**S5.3 ROOF FRAMING SECTIONS & DETAILS**

**S5.4 ROOF FRAMING SECTIONS & DETAILS**

**S5.5 ROOF FRAMING SECTIONS & DETAILS**

**S5.6 ROOF FRAMING SECTIONS & DETAILS**

**P0.1 PLUMBING SYMBOLS & ABBREVIATIONS**

**P2.1 PLUMBING FLOOR PLAN - WASTE AND VENT**

**P2.2 PLUMBING FLOOR PLAN - WATER AND GAS**

**P2.3 PLUMBING FLOOR PLAN - (ALT 1A)**

**P3.1 PLUMBING SCHEDULES & DETAILS**

**P3.2 PLUMBING SCHEDULES & DETAILS**

**P3.3 GAS RISER**

**P3.4 SANITARY RISER**

**P3.5 DOMESTIC WATER RISER**

**M0.1 MECHANICAL SYMBOLS & ABBREVIATIONS**

**M2.1 MECHANICAL FLOOR PLAN**

**M2.1A MECHANICAL FLOOR PLAN (ALT. 1)**

**M3.1 MECHANICAL ROOM ENLARGED PLAN**

**M4.1 MECHANICAL SCHEDULES**

**M4.2A MECHANICAL CONTROLS**

**M4.2B MECHANICAL CONTROLS**

**M4.3 MECHANICAL SCHEDULES**

**M5.1 MECHANICAL DETAILS**

**M5.2 MECHANICAL DETAILS**

**E0.1 ELECTRICAL SYMBOLS & ABBREVIATIONS**

**E1.1 ELECTRICAL SITE PLAN**

**E2.1 ELECTRICAL LIGHTING PLAN**

**E2.1A ELECTRICAL LIGHTING PLAN (ALT. 1A)**

**E3.1 ELECTRICAL POWER PLAN**

**E3.1A ELECTRICAL POWER PLAN (ALT. 1A)**

**E4.1 FIRE ALARM FLOOR PLAN**

**E4.1A FIRE ALARM FLOOR PLAN (ALT. 1A)**

**E5.1 ELECTRICAL ENLARGED FLOOR PLAN**

**E6.1 ENLARGED ONE-LINE DIAGRAM**

**E7.1 ELECTRICAL SCHEDULES**

**E7.1A ELECTRICAL SCHEDULES (ALT. 1A)**

**E8.1 ELECTRICAL SCHEDULES**

**E8.1A ELECTRICAL SCHEDULES (ALT 1A)**

**E9.1 ELECTRICAL DETAILS**

**IT4.0 SITE PLAN - IT**

**IT4.1 1RST FLOOR DATA PLAN**

**IT4.1A IT 1RST FLOOR DATA PLAN (ALT 1A)**

**IT4.2 IT DETAIL SHEET**

**IT4.3 IT DETAIL SHEET**

**IT4.4 IT DETAIL SHEET**

**END OF SECTION**

**SECTION 01 2100  
ALLOWANCES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Allowances Schedule below.

**1.02 ALLOWANCES**

- A. Architect Responsibilities, where applicable:
1. Select products in consultation with Owner and transmit decision to Contractor.
  2. Prepare Change Order.
- B. Contractor Responsibilities, where applicable:
1. Assist Architect in selection of products, suppliers, and installers.
  2. Obtain proposals from suppliers and installers and offer recommendations.
  3. On notification of which products have been selected, execute purchase agreement with designated supplier and installer.
  4. Arrange for and process shop drawings, product data, and samples. Arrange for delivery.
  5. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.
- C. Differences in costs will be adjusted by Change Order.

**1.03 ALLOWANCES SCHEDULE**

- A. ALLOWANCE NO. 1 - Division [27 - Communications]: Include the stipulated sum of \$[140,000.00] for purchase, delivery, and installation of [USDD Communications System].
- B. ALLOWANCE NO. 2 - Section [05 1200 - Structural Steel Framing]: Include the stipulated sum of \$[9,200.00] for purchase, delivery, and installation of [structural steel, structural reinforcing steel, and miscellaneous steel for material and installation per design team members per Note GN-13 on sheet S1.1].
- C. ALLOWANCE NO. 3 - Section [05 4400 - Cold-Formed Metal Trusses]: Include the stipulated sum of \$[3,800.00] for purchase, delivery, and installation of [allowance for additional connector materials per Note LT-7 on sheet S1.2].
- D. ALLOWANCE NO. 6 - Utility Impact Fees: Include the sum of \$90,000.00 for payment of Utility Impact Fees.

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION**

**SECTION 05 3100**

**STEEL DECKING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Rubber Cell Closures

**1.02 RELATED REQUIREMENTS**

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

**1.03 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in performing the work of this Section with minimum three (3) years of experience.

**PART 2 PRODUCTS**

**2.01 ACCESSORY MATERIALS**

- A. Flute Closures: Closed cell Crosslinked Polyethylene Closure, profiled to fit tight to the underside of the roof deck to be installed. Coordinate closure profile to be used with profile of approved metal roof deck submittal.
  1. Density (PCF): 2.
  2. Tensile Strength (PSI) (Machine Direction): 50.
  3. Tensile Strength (PSI) (Cross Direction): 39.
  4. Elongation % (Machine Direction): 220.
  5. Elongation % (Cross Direction): 88.
  6. Compression Resistance (25% PSI) (Machine Direction): 8.
  7. Compression Resistance (50% PSI) (Cross Direction): 14.
  8. Compression Set @ 50% 18.
  9. Durometer 00 (00 Scale) (Machine Direction): 54.
  10. Thermal Stability (%): -2.0.
  11. Thermal Stability (%): -1.0.
  12. Thermal Conductivity: 0.26.
  13. Water / Absorption (%): 0.05.
  14. Working Temp. Range: -70 to +200.
  15. Tear Resistance (PLI) (Machine Direction): 8.
  16. Tear Resistance (PLI) (Cross Direction): 11.
- B. Pliable closed-cell material with exceptional strength and uniform compressability.
- C. Rust, ozone and ultraviolet rays have minimal effect on product.
- D. Color: Grey
- E. Manufacturer: Metal Deck Direct; Make: HFP3 - 2# Bun Crosslinked Polyethylene Closure.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. Close openings above walls and partitions perpendicular to deck flutes with row of foam cell closure at locations noted.

**END OF SECTION**

**SECTION 08 3100**  
**ACCESS DOORS AND PANELS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Wall access door and frame units.
- B. Ceiling access door and frame units.

**1.02 RELATED REQUIREMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Section 09 9123 - Interior Painting: Field paint finish.

**1.03 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide sizes, types, finishes, hardware, scheduled locations, and details of adjoining work.

**PART 2 PRODUCTS**

**2.01 ACCESS DOOR AND PANEL APPLICATIONS**

- A. Walls, Unless Otherwise Indicated:
  - 1. Material: Steel.
  - 2. Size: 12 by 12 inch (305 by 305 mm), unless otherwise indicated.
  - 3. Standard duty, hinged door.
  - 4. Tool-operated spring or cam lock; no handle.
  - 5. In All Wall Types: Surface mounted face frame and door surface flush with frame surface.
- B. Walls in Wet Areas:
  - 1. Material: Steel, hot-dipped zinc or zinc-aluminum-alloy coated.
  - 2. Size: 12 by 12 inch (305 by 305 mm), unless otherwise indicated.
- C. Ceilings, Unless Otherwise Indicated: Same type as for walls.
  - 1. Material: Steel.
  - 2. Size in Lay-in Grid Ceilings: To match grid module.
  - 3. Size in Other Ceilings: 30 x 30 inch (\_\_\_\_by\_\_\_\_ mm), unless otherwise indicated.
  - 4. Standard duty, hinged door.
  - 5. Tool-operated spring or cam lock; no handle.

**2.02 WALL AND CEILING UNITS**

- A. Manufacturers:
  - 1. ACUDOR Products Inc: [www.acudor.com](http://www.acudor.com).
  - 2. Babcock-Davis: [www.babcockdavis.com](http://www.babcockdavis.com).
  - 3. Cendrex, Inc: [www.cendrex.com](http://www.cendrex.com).
  - 4. Karp Associates, Inc: [www.karpinc.com](http://www.karpinc.com).
  - 5. Milcor by Commercial Products Group of Hart & Cooley, Inc: [www.milcorinc.com](http://www.milcorinc.com).
- B. Access Doors: Factory fabricated door and frame units, fully assembled units with corner joints welded, filled, and ground flush; square and without rack or warp; coordinate requirements with assemblies that units are to be installed in.
  - 1. Style: Exposed frame with door surface flush with frame surface.
    - a. In Gypsum Board: Use drywall bead type frame.
  - 2. Door Style: Single thickness with rolled or turned in edges.
  - 3. Frames: 16 gage, 0.0598 inch (1.52 mm), minimum.
  - 4. Single Thickness Steel Door Panels: 1/16 inch (1.6 mm), minimum.
  - 5. Steel Finish: Primed for painting in the field.
  - 6. Primed and Factory Finish: Polyester powder coat; manufacturer's standard color.

7. Hardware:
  - a. Hinges for Non-Fire-Rated Units: Concealed, constant force closure spring type.
  - b. Latch/Lock: Screw driver slot for quarter turn cam latch.
  - c. Gasketing: Extruded neoprene, around the perimeter of the door panel.

**PART 3 EXECUTION**

**3.01 EXAMINATION**

- A. Verify that rough openings are correctly sized and located.

**3.02 INSTALLATION**

- A. Install units in accordance with manufacturer's instructions.
- B. Install frames plumb and level in openings. Secure rigidly in place.
- C. Position units to provide convenient access to the concealed work requiring access.

**END OF SECTION**

**SECTION 08 7100  
DOOR HARDWARE**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Hardware for wood and hollow metal doors.
- B. Hardware for fire-rated doors.
- C. Lock cylinders for doors that hardware is specified in other sections.
- D. Thresholds.
- E. Weatherstripping, seals and door gaskets.
- F. Gate locks.

**1.02 RELATED REQUIREMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Section 08 1113 - Hollow Metal Doors and Frames.
- C. Section 08 1416 - FLUSH WOOD DOORS.
- D. Section 08 4313 - Aluminum-Framed Storefronts: Hardware for same except cylinders; installation of cylinders.

**1.03 REFERENCE STANDARDS**

- A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- C. BHMA A156.1 - American National Standard for Butts and Hinges; Builders Hardware Manufacturers Association, Inc.; 2013 (ANSI/BHMA A156.1).
- D. BHMA A156.2 - American National Standard for Bored and Preassembled Locks & Latches; Builders Hardware Manufacturers Association; 2011 (ANSI/BHMA A156.2).
- E. BHMA A156.3 - American National Standard for Exit Devices; Builders Hardware Manufacturers Association; 2014 (ANSI/BHMA A156.3).
- F. BHMA A156.4 - American National Standard for Door Controls - Closers; Builders Hardware Manufacturers Association, Inc.; 2013 (ANSI/BHMA A156.4).
- G. BHMA A156.5 - American National Standard for Cylinders and Input Devices for Locks; Builders Hardware Manufacturers Association; 2014 (ANSI/BHMA A156.5).
- H. BHMA A156.6 - American National Standard for Architectural Door Trim; Builders Hardware Manufacturers Association; 2010 (ANSI/BHMA A156.6).
- I. BHMA A156.7 - American National Standard for Template Hinge Dimensions; Builders Hardware Manufacturers Association; 2014 (ANSI/BHMA A156.7).
- J. BHMA A156.8 - American National Standard for Door Controls - Overhead Stops and Holders; Builders Hardware Manufacturers Association, Inc.; 2010 (ANSI/BHMA A156.8).
- K. BHMA A156.12 - American National Standard for Interconnected Locks; Builders Hardware Manufacturers Association; 2013 (ANSI/BHMA A156.12).
- L. BHMA A156.13 - American National Standard for Mortise Locks & Latches Series 1000; Builders Hardware Manufacturers Association; 2012 (ANSI/BHMA A156.13).
- M. BHMA A156.14 - American National Standard for Sliding & Folding Door Hardware; Builders Hardware Manufacturers Association; 2013 (ANSI/BHMA A156.14).
- N. BHMA A156.15 - American National Standard for Release Devices - Closer Holder, Electromagnetic and Electromechanical; Builders Hardware Manufacturers Association; 2011 (ANSI/BHMA A156.15).

- O. BHMA A156.16 - American National Standard for Auxiliary Hardware; Builders Hardware Manufacturers Association; 2013 (ANSI/BHMA A156.16).
- P. BHMA A156.17 - American National Standard for Self Closing Hinges & Pivots; Builders Hardware Manufacturers Association, Inc.; 2014 (ANSI/BHMA A156.17).
- Q. BHMA A156.18 - American National Standard for Materials and Finishes; Builders Hardware Manufacturers Association, Inc.; 2012 (ANSI/BHMA A156.18).
- R. BHMA A156.115 - American National Standard for Hardware Preparation in Steel Doors and Steel Frames; 2014 (ANSI/BHMA A156.115).
- S. BHMA A156.115W - American National Standard for Hardware Preparation in Wood Doors with Wood or Steel Frames; 2006 (ANSI/BHMA A156.115W).
- T. ICC A117.1 - Accessible and Usable Buildings and Facilities; International Code Council; 2009 (ANSI).
- U. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2013.
- V. NFPA 101 - Life Safety Code; National Fire Protection Association; 2015.
- W. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.

#### **1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware will be installed upon.
- B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- C. Convey Owner's keying requirements to manufacturers.
- D. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by all affected installers.
- E. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

#### **1.05 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project.
- C. Keying Schedule: Submit for approval of Owner.
- D. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
  - 1. Submit manufacturer's parts lists and templates.
- E. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier.
- F. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- G. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
- H. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 01 6000 - Product Requirements, for additional provisions.
  - 2. Tools: One set of all special wrenches or tools applicable to each different or special hardware component, whether supplied by the hardware component manufacturer or not.

#### **1.06 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years of documented experience.

- B. Hardware Supplier Qualifications: Company specializing in supplying commercial door hardware with 10 years of experience.
- C. Hardware Supplier Personnel: Employ a qualified person to assist in the work of this section.

**1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

**1.08 WARRANTY**

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Provide five year warranty for door closers.

**PART 2 PRODUCTS**

**2.01 DOOR HARDWARE SUPPLIERS**

- A. Architectural Division 8.

**2.02 MANUFACTURERS - REFER TO ATTACHED COSA FIRE STATION #18 - "HARDWARE SETS" SCHEDULE.**

**2.03 MANUFACTURERS - BASIS OF DESIGN**

- A. As specified in this section per the attached "Hardware Set" schedule.

**2.04 DOOR HARDWARE - GENERAL**

- A. Provide hardware specified or required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.
- B. Provide items of a single type of the same model by the same manufacturer to the extent possible and as per the attached door hardware schedule.
- C. Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in the "Hardware Sets" schedule attached with this Section of Specifications. Products are identified by using hardware designation numbers of the following:
  - 1. Manufacturer's Product Designations: The product designation and name of one manufacturer are listed for each hardware type required for the purpose of establishing minimum requirements. Provide either the product designated or, where more than one manufacturer is specified for each hardware type, the comparable product of one of the other manufacturers that complies with requirements.
  - 2. ANSI/BHMA designations used elsewhere in this Section or in schedules to describe hardware items or to define quality or function are derived from the following standards. Provide products complying with these standards and requirements specified elsewhere in this Section.
- D. Provide products that comply with the following:
  - 1. Applicable provisions of federal, state, and local codes.
  - 2. Accessibility: ADA Standards and ICC A117.1.
  - 3. Applicable provisions of NFPA 101, Life Safety Code.
  - 4. Fire-Rated Doors: NFPA 80.
  - 5. Hardware on Fire-Rated Doors, Except Hinges: Listed and classified by UL as suitable for the purpose specified and indicated.
  - 6. Auxiliary Hardware: BHMA A156.16.
  - 7. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
  - 8. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
- E. Finishes: Identified in attached "Hardware Set" schedule.
- F. Fasteners:
  - 1. Mineral Core Wood Doors: Six bolts.
  - 2. Concrete and Masonry Substrates: Stainless steel machine screws and lead expansion shields.

## 2.05 LOCKS AND LATCHES

- A. Locks: Provide a lock for every door, unless specifically indicated as not requiring locking.
  - 1. Hardware Sets indicate locking functions required for each door.
  - 2. If no hardware set is indicated for a swinging door provide an office lockset.
  - 3. Trim: Provide lever handle or pull trim on outside of all locks unless specifically stated to have no outside trim.
  - 4. Lock Cylinders: Provide key access on outside of all locks unless specifically stated to have no locking or no outside trim.
- B. Lock Cylinders: Manufacturer's standard tumbler type, seven-pin interchangeable core.
  - 1. Provide cams and/or tailpieces as required for locking devices required.
- C. Keying: .
  - 1. Include construction keying and control keying with removable core cylinders.
  - 2. Supply keys in the following quantities:
    - a.  6 master keys.
    - b.  2 grand master keys.
    - c.  12 construction master keys.
    - d.  2 construction control keys.
    - e.  2 control keys and  2 extra cylinder cores.
    - f.  3 change keys for each keyed core.
- D. Latches: Provide a latch for every door that is not required to lock, unless specifically indicated "push/pull" or "not required to latch".
- E. Permanent keys and cores:
  - 1. Stamped with the applicable key mark for identification. These visual key control marks or codes will not include the actual key cuts. Permanent keys will also be stamped "Do Not Duplicate".
- F. Transmit Grand Masterkeys, Masterkeys and other Security keys to Owner by Registered Mail, return receipt requested.

## 2.06 SOUND SEALS

- A. Provide continuous sound seals at all dorm room entry doors - install per manufacturer's recommendations.

## 2.07 KEY CONTROLS

- A. Keying Schedule: Arrange for a keying meeting, with Architect Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying complies with project requirements. Furnish 3 typed copies of keying schedule to Architect.
- B. Key Management System: For each keyed lock on project, provide  the number of duplicate key tags with hanging hole and snap catch as required by the Owner.
  - 1. Security Key Tags: For each keyed lock on project, provide one set of matching key tags for permanent attachment to one key of each set.
  - 2. Provide key collection envelopes, receipt cards, and index cards in quantity suitable to number of keys to be managed.

## 2.08 FIRE DEPARTMENT LOCK BOX

- A. Fire Department Lock Box - Basis of Design: Knox Box 3200 Series by Knox Company .
- B. Fire Department Lock Box: Heavy-duty, recessed, solid stainless-steel box with hinged  door and interior gasket seal; single drill resistant lock with dust covers.
  - 1. Capacity: Holds up to 10 keys.
  - 2. Finish: Manufacturer's standard Pre-treatment zinc-phosphate to Federal Standard TTC 490 Type II. Final Coating - TGIG polyester powder coat in color as selected by Architect from manufacturer's standard range.

3. Lock: UL Listed, double-action rotating tumblers and hardened steel pins accessed by a biased cut key.
4. Manufacturers - Fire Department Lock Box:
  - a. Knox Company; Knox-Box Rapid Entry System[]: [www.knoxbox.com](http://www.knoxbox.com).

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as indicated on shop drawings.

#### **3.02 INSTALLATION**

- A. Install hardware in accordance with manufacturer's instructions and recommendations and applicable codes. Where cutting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface mounted items until finishes have been completed on the substrates involved.
- B. Use templates provided by hardware item manufacturer. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by Architect.
  1. "Recommended Locations for Builders hardware for Standard Steel Doors and Frames: by the Door and Hardware Institute.
  2. NWWDA Industry Standard I.S.1.7, "Hardware Locations for Wood Flush Doors".
- C. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.
- D. Mounting heights for hardware from finished floor to center line of hardware item. re: Sheet A0.2
- E. Set exterior door thresholds with full-width bead of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Division 7 Section 07 9200 Joint Sealants and on each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk fasteners. Space fasteners and anchors in accordance with industry standards.
- F. Weatherstripping and Seals: Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.
- G. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

#### **3.03 FIELD QUALITY CONTROL**

- A. Field inspection and testing will be performed under provisions of Section 01 4000.
- B. Provide an Architectural Hardware Consultant to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified.

#### **3.04 ADJUSTING**

- A. Adjust work under provisions of Section 01 7000.
- B. Adjust hardware for smooth operation.
- C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.
- D. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.
  1. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.