



CITY OF HOUSTON

INVITATION TO BID

Issued: April 10, 2015

Sealed bids, in duplicate, will be received by the City Secretary of the City of Houston, in the City Hall Annex, Public Level, 900 Bagby, Houston, Texas 77002 until **10:30 A.M. Thursday, May 7, 2015**, and all bids will be opened and publicly read in the City Council Chamber, City Hall Annex, Public Level, 900 Bagby at 11:00 A.M. on that date for the purchase of:

**FURNISH AND INSTALL INTERIOR FLOORING, WALL TILE, EXTERIOR DAMP PROOFING & BRICK VENEER
AT FIRE STATION NO. 13
FOR THE GENERAL SERVICES DEPARTMENT
Bid No. S50-C25406
NIGP Codes: 906-38 / 909-24 / 912-20**

Buyer:

Questions regarding this solicitation should be addressed to Arturo Lopez, Senior Procurement Specialist, at **832-393-8731** or e-mail to arturo.lopez@houstontx.gov.

Electronic Bidding:

In order to submit a bid for the items associated with this procurement, you must fill in the pricing information on the "PLACE BID" page.

Prebid Conference and Site Visit:

A Pre-Bid Conference will be held for all Prospective Bidders in the Strategic Purchasing Division, Concourse Level (Basement), Conference Room #1, City Hall, 901 Bagby, at **10:00 a.m. on Wednesday, April 22, 2015**. ***The site visit will be scheduled at the pre-bid conference.***

All Prospective Bidders are urged to be present. It is the bidder's responsibility to ensure that they have secured and thoroughly reviewed the solicitation documents prior to the Pre-Bid Conference. Any revisions to be incorporated into this solicitation document arising from discussions before, during and subsequent to the Pre-Bid Conference will be confirmed in writing by Letter(s) of Clarification prior to the bid due date. Verbal responses will not otherwise alter the specifications, terms and conditions as stated herein.

Bidding forms, specifications, and all necessary information should be downloaded from the Internet at www.houstontx.gov/purchasing/index.html. By registering and downloading this solicitation document, all updates to this solicitation document will be automatically forwarded via e-mail to any registered bidders. This information may also be obtained from the Supplier Assistance Desk, Strategic Purchasing Division, 901 Bagby, Concourse Level, Houston, Texas 77002.

The place of the bid opening may be transferred in accordance with Paragraph (b), (5) of Section 15-3 of The Code of Ordinances, Houston, Texas. The bid-opening meeting may be rescheduled in accordance with Paragraph (b), (6) of said Section 15-3.

The City reserves the right to reject any or all bids, or to accept any bid or combination of bids deemed advantageous to it.

City employees are prohibited from bidding on this solicitation in accordance with the Code of Ordinances Section 15-1.

***CONTENTS:**

- A. OFFER
- B. SCOPE OF WORK/SPECIFICATIONS
- C. GENERAL, SUPPLEMENTARY CONDITIONS AND BOND FORMS

*NOTE 1: Actual page numbers for each section may change when the solicitation document is downloaded from the Internet or because of letters of clarification. Therefore, bidders must read the solicitation document in its entirety and comply with all the requirements set forth therein.

*NOTE 2: **To be considered for award please submit the electronic bid form and the forms listed in section A, including the signature page, which must be signed by a company official authorized to bind the company and a 10% Bid Bond.**

SECTION A



FORMAL ONE-TIME BID

FURNISH AND INSTALL INTERIOR FLOORING, WALL TILE, EXTERIOR DAMP PROOFING & BRICK VENEER FOR THE GENERAL SERVICES DEPARTMENT

Bid No. S50-C25406

NIGP Codes: 906-38 / 909-24 / 912-20

To The Honorable Mayor
and City Council Members
of the City of Houston, Texas (the "City"):

The undersigned hereby offers to provide services necessary to **Furnish and Install Interior Flooring, Wall Tile, Exterior Damp Proofing & Brick Veneer at Fire Station No. 13 for the General Services Department on behalf of the Houston Fire Department.** F.O.B. destination point Houston, Texas, in accordance with the City's Specifications and General Terms & Conditions and/or samples/drawings provided herein. When issued by the City of Houston, Letters of Clarification shall automatically become part of this bid document and shall supersede any previous specifications or provisions in conflict with Letters of Clarification. It is the responsibility of the bidder to ensure that it has obtained all such letters. By submitting a bid on this project, bidder shall be deemed to have received all Letters of Clarification and to have incorporated them into the bid.

The City may accept this bid offer by issuance of a Notice of Award Letter and/or a Purchase Order at any time on or before the 120th day following the day this Official Bid Form is opened by the City. This offer shall be irrevocable for 120 days after bid opening or for 90 days after City Council awards the bid, whichever comes last, but this period may be extended by written agreement of the parties.

The City reserves the option, after bids are opened, to adjust the quantities listed on the electronic bid form upward or downward, subject to the availability of funds, and/or make award (s) on a line item basis.

SECTION A

Documents/forms must be downloaded from the City's Website
<http://www.houstontx.gov/purchasing/index.html>

Additional Required Forms to be Included with this bid:

In addition to the electronic Bid Form and the Official Signature Page, the Forms listed in Table 1 **must be completed and submitted to the Office of the City Secretary on or before the date and time the bid is due:**

Table 1
Affidavit of Ownership
Fair Campaign Ordinance
Statement of Residence
Conflict of Interest Questionnaire
Pay or Play Contract Compliance Acknowledgement Form 1a
Contractor References
10% Bid Bond

Table 2 lists other documents and forms that should be viewed/downloaded from the City's website, but are not required to be submitted with the bid. The City will request these forms, as applicable, to be completed and submitted to the City by the recommended/successful bidder:

Table 2
Formal Instructions for Bid Terms
Drug Forms
Insurance Certificates Over \$50,000.00 / Insurance Endorsements
OCP Insurance Certificate Over \$100,000.00
Pay or Play Form 2 / Certification of Agreement to Comply
Performance, Maintenance and Statutory Payment Bonds
2015 City of Houston Building Wage Decision

Note:

1. Questions concerning the Bid should be submitted in writing to: City of Houston, Strategic Purchasing Division, 901 Bagby, Room B506, Houston, TX 77002, Attn: Arturo Lopez or via fax: 832-393-8759 or via email (preferred method) to arturo.lopez@cityofhouston.net no later than **4:00 PM, Monday, April 27, 2015.**
2. This will be a "Lump Sum" bid to furnish and install interior flooring, wall tile and exterior damp proofing & brick veneer at Fire Station No. 13. Although it is the intent of the City to award one contract as results of this invitation to bid, the City reserves the right to award by line item/group.

PROJECT BUDGET:

Pursuant to City policy concerning the administration and control of project funds, the initial budget for this Project is established at **\$120,000.00** is defined in the contract as "Agreed Estimate". The Architect shall therefore endeavor to plan and design this project in such manner that the Architect's best professional estimate of probable Construction Cost, as defined in the Contract, does not exceed this amount. If at any time during the course of this Project, the Architect's estimate of Construction Cost, for all work designed and specified exceeds this amount, the Architect shall immediately notify the Director, may by written notice increase the Agreed Estimate up to an amount not to exceed the Maximum Total Construction Cost, or any revision thereof, or obtain an agreed upon reduction in the Project scope. For any budget revision there shall be no increase in the Architect's fee.

PERMITS:

Successful Contractor shall be responsible for securing any and all permits for proposed work. Any fee charged for these permits should be the responsibility of the Contractor and not the City of Houston.

CITY BUILDING CODES:

All work performed or equipment installed shall be in strict accordance with the City of Houston Building Codes. The Contractor will immediately correct any deficiencies discovered during work or after completion. Failure to correct deficiencies will result in the City having corrections made at the Contractor's expense.

BID BOND:

The bidder shall be required to provide and submit with its bid a Bid Bond in the amount of 10% of the total bid amount. The Bid Bond shall be in the same form as that distributed by the City, and attached hereto, all duly executed by this Bidder (as "Principal") and by a corporate surety company licensed to do business in the State of Texas, and if the amount of the bond is greater than \$100,000.00 the surety must hold a certificate of authority from the United States Secretary of the Treasury, or a Cashier's or a Certified check in a like amount. Company or personal checks are not acceptable.

PERFORMANCE AND PAYMENT BONDS:

The successful Contractor(s) shall be required to provide a Performance and Payment Bond in the total amount (100%) of the Contract, if the award is in excess of \$25,000.00.

The Performance and Payment Bonds shall be in the same form as that distributed by the City, and attached hereto, all duly executed by this bidder (as "Principal") and by an incorporated surety company licensed to do business in the State of Texas. If the amount of the bond is greater than \$100,000.00 the surety must hold a certificate of authority from the United States Secretary of the Treasury.

The Contractor(s) shall be required to provide a Performance and Payment Bonds as outlined above, which will be delivered to the City Purchasing Agent of the City, on or before the tenth (10th) day following the day the bidder receives notice from the City.

MAINTENANCE BOND:

The Contractor shall furnish a maintenance bond in the total (100%) bid amount in the form required by the City (samples attached). One bond, also referred to as the One Year Maintenance Bond, will be conditioned upon Contractor's repair, replacement or restoration of any work or any portion of the work which is found to be defective or fails in any way to comply strictly with this contract or the plans and specifications for such

work within a period of one (1) year from the date of acceptance of such work by the City Council or after the date that the "CO", or its designee in writing, determines, in a written notice to the Contractor, to be the date upon which the project is both substantially complete and available for the full and beneficial occupancy or use of the City.

QUALITY AND WORKMANSHIP:

The bidder must be able to demonstrate upon request that it has performed satisfactorily, services similar to the services specified herein. The bidder will provide records of warranty and repair services performed for others upon request. The City of Houston shall be the sole judge whether the services performed are similar to the scope of services specified herein.

SITE INSPECTION:

The City of Houston reserves the right to inspect the bidder's current place of business to evaluate equipment condition and capabilities, staff experience, training and capabilities, and storage capabilities as they relate to the performance of this contract.

PROTEST:

A protest shall comply with and be resolved, according to the City of Houston Procurement Manual http://purchasing.houstontx.gov/docs/Procurement_Manual.pdf and rules adopted thereunder. Protests shall be submitted in writing and filed with both, the City Attorney and the Solicitation contact person. A pre-award protest of the ITB shall be received five (5) days prior to the solicitation due date and a post-award protest shall be filed within five (5) days after City Council approval of the contract award.

A protest shall include the following:

- The name, address, e-mail, and telephone number of the protester;
- The signature of the protester or its representative who has the delegated authority to legally bind its company;
- Identification of the ITB description and the ITB or contract number;
- A detailed written statement of the legal and factual grounds of the protest, including copies of relevant documents, etc.; and
- The desired form of relief or outcome, which the protester is seeking

INTERLOCAL AGREEMENTS:

Under the same terms and conditions hereunder, the Contract may be expanded to other government entities through inter-local agreements between the City of Houston and the respective government entity that encompass all or part of the products/services provided under this contract. Separate contracts will be drawn to reflect the needs of each participating entity.

NO CONTACT PERIOD

Neither bidder(s) nor any person acting on bidder(s)'s behalf shall attempt to influence the outcome of the award by the offer, presentation or promise of gratuities, favors, or anything of value to any appointed or elected official or employee of the City of Houston, their families or staff members. All inquiries regarding the solicitation are to be directed

to the designated City Representative identified on the first page of the solicitation. Upon issuance of the solicitation through the pre-award phase and up to the date the City Secretary publicly posts notice of any City Council agenda containing the applicable award, aside from bidder's formal response to the solicitation, through the pre-award phase, written requests for clarification during the period officially designated for such purpose by the City Representative, neither bidder(s) nor persons acting on their behalf shall communicate with any appointed or elected official or employee of the City of Houston, their families or staff through written or oral means in an attempt to persuade or influence the outcome of the award or to obtain or deliver information intended to or which could reasonably result in an advantage to any bidder. However, nothing in this paragraph shall prevent a bidder from making public statements to the City Council convened for a regularly scheduled session after the official selection has been made and placed on the City Council agenda for action, *or to a City Council committee convened to discuss a recommendation regarding the solicitation.*

HIRE HOUSTON FIRST:

Designation as a City Business or Local Business

To be designated as a City or Local Business for the purposes of the Hire Houston First Program, as set out in Article XI of Chapter 15 of the Houston City Code, a bidder or proposer must submit the **Hire Houston First Application and Affidavit (“HHF Affidavit”)** to the Director of the Mayor’s Office of Business Opportunities and receive notice that the submission has been approved prior to award of a contract. Bidders are encouraged to secure a designation prior to submission of a bid or proposal if at all possible.

Download the HHF Affidavit from the Office of Business Opportunities Webpage at the City of Houston e-Government Website at the following location:

<http://www.houstontx.gov/hbsc/hirehoustonfirstaffidavit.pdf>

Award of Procurement of \$100,000 or More for Purchase of Non-Professional Services , Including Construction Services:

THE CITY WILL AWARD THIS PROCUREMENT TO A " CITY BUSINESS," AS THAT TERM IS DEFINED IN SECTION 15-176 OF THE CITY OF HOUSTON CODE OF ORDINANCES (“THE CODE”)

- IF THE BID OF THE LOCAL BUSINESS IS THE LOWEST RESPONSIBLE BID OR IS WITHIN 3% OF THE LOWEST BID RECEIVED, AND
- UNLESS THE USER DEPARTMENT DETERMINES THAT SUCH AN AWARD WOULD UNDULY INTERFERE WITH CONTRACT NEEDS, AS PROVIDED IN SECTION 15-181 OF THE CODE.

IF THERE IS NO BID OF A LOCAL BUSINESS THAT MEETS THESE CRITERIA, THE CITY WILL AWARD THE PROCUREMENT TO THE LOWEST RESPONSIBLE BIDDER.

CONTRACTOR'S QUESTIONNAIRE:

In order to receive bid award consideration, the bidder must be able to demonstrate that they are currently providing or have had at least one contract, to ***furnish and install interior flooring, wall tile, exterior damp proofing & brick veneer*** that is similar in size and scope to this project. **Bidder must have references documenting that it has furnished and installed interior flooring, wall tile, exterior damp proofing & brick veneer that is similar in size and scope to this construction project.** The reference(s) should be included in the space provided below. Please attach another piece of paper if necessary. If references are not included with the bid, the bidder shall be required to provide such references to the City of Houston within five working days from receipt of a written request from the City of Houston to do so. **Bidder's capability and experience shall be a factor in determining the Contractor's responsibility.**

1. Business Name: _____
Business Address: _____
City, State, Zip: _____

Name of Owner/Contact Person:

Phone: _____ Email: _____
No. of Years providing Service to this business: _____

2. Business Name: _____
Business Address: _____
City, State, Zip: _____

Name of Owner/Contact Person:

Phone: _____ Email: _____
No. of Years providing Service to this business: _____

3. Business Name: _____
Business Address: _____
City, State, Zip: _____

Name of Owner/Contact Person:

Phone: _____ Email: _____
No. of Years providing Service to this business: _____

4. Business Name: _____
Business Address: _____
City, State, Zip: _____

Name of Owner/Contact Person:

Phone: _____ Email: _____
No. of Years providing Service to this business: _____

5. Business Name: _____
Business Address: _____
City, State, Zip: _____

Name of Owner/Contact Person:

Phone: _____ Email: _____
No. of Years providing Service to this business: _____

SECTION B
PART I

SCOPE OF WORK

**Furnish and Install Interior Flooring, Wall Tile, Exterior Damp Proofing &
Brick Veneer at Fire Station No. 13**

PART ONE – General Summary:

1.0 Bid Line Item No. 1: FURNISH AND INSTALL INTERIOR FLOORING AND WALL TILE:

- 1.1 The Contractor shall be required to provide all labor, materials, equipment, safety, insurance, transportation, and permits necessary to furnish and install interior flooring and wall tile at Fire Station No. 13, located at 2215 West 43rd St. Houston, TX for the General Services Department on behalf of the Houston Fire Department. The installation shall be in strict accordance with the technical specifications and structural drawings stated/referenced herein.
- 1.2 Installation of **Interior** Floor and Wall Tile:
 - 1.2.1 See Page No 19 of 38 titled, Floor Plan of Fire Station No. 13, for locations of rooms and type of tile to be installed.
 - 1.2.2 The Contractor shall be responsible for verifying the square footage of all rooms and the amount of materials needed.
 - 1.2.3 All surfaces are as is. The Contractor shall be responsible for any necessary modifications needed to install tile on a flat surface. The Contractor shall be required to use a pre-approved leveling compound to achieve a flat surface before installing tile.
 - 1.2.4 The Contractor shall be responsible for installing shower pans in all showers in accordance with the City of Houston's code requirements.
 - 1.2.5 The Floor tile must be Daltile "Colorbody" Porcelain, Continental Slate series, Tuscan Blue CS56 COLOR. The Tile shall be applied in a modified hopscotch pattern utilizing different tile sizes 18 by 18, 12 by 18, 12 by 12, and 6 by 6. The Grout must be Tex Rite #32 Gray or equivalent. The grout lines shall be 3/16 inches and maintained on all floor tile.
 - 1.2.6 Shower floor tile must be the same style and color as above except the size shall be 6" X 6". (*Only bathrooms and showers shall have wall tile.*)
 - 1.2.7 The bathroom and shower wall tile from floor to ceiling must be Daltile "Colorbody" Porcelain, Continental Slate series, Egyptian Beige CS50 color, sizes 6" X 6". The wall tile shall be installed in a brick pattern. The grout must be Tex Rite #49 Antique White or

equivalent and 3/16 inches in width. There must be a 4" horizontal decorative accent border of Daltile "Colorbody" Porcelain, Continental Slate series, CS74 pattern. The border shall be approximately 4 feet above floor, below the light switches.

- 1.2.8 The Contractor shall be required to install Schluter-Rondec aluminum corner molds, on the outside corners of all wall tiles.
- 1.2.9 The Contractor shall be required to install Schluter transition strips in areas where floor tile ends into concrete.
- 1.2.10 The Contractor shall be required to install 4 inch rubber cove base on all non-tile walls and under all cabinets.
- 1.2.11 The bottom row of the wall tile shall NOT be sanitary cove.
- 1.2.12 The ceilings of all bathrooms and showers will be constructed by City personnel.
- 1.2.13 Beginning of Installation: The Contractor accepts the condition of the existing substrate.
- 1.2.14 The Contractor shall protect all surrounding work from damage.
- 1.2.15 The Contractor shall be required to vacuum and clean all existing substrate and damp clean, seal substrate surface cracks with filler, level existing substrate to an acceptable flatness tolerance, per the City's representative approval.
- 1.2.16 Tile: The Contractor shall be responsible for shower mortar bed application per City code, including vinyl shower pan. The mortar bed shall slope ¼ inch per foot to drain.
- 1.2.17 The Contractor shall be required to insure that floor tile is flush with top of all floor and shower drains.
- 1.2.18 The Contractor shall be required to apply adhesive and grout in accordance with manufacturer instructions and the Hospital Corporation of America (HCA) handbook for ceramic tile installation. *(See the link below to view a PDF version of Technical Specifications for the Hospital Corporation of America (HCA) handbook for ceramic tile installation.)*

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C25406>

- 1.2.19 The Contractor shall be required to maintain industry standard tolerances for levelness of floor tile, keeping all tiles even with the next.
- 1.2.20 The Contractor shall be required to replace unacceptable tiles at the Contractor's expense.

- 1.2.21 The Contractor shall be required to sound tile after setting and replace hollow sounding tiles.
- 1.2.22 The Contractor shall be required to allow tile to set for 48 hours before grouting.
- 1.2.23 The Contractor shall be required to apply grout sealer to all grout.
- 1.2.24 The Contractor shall be responsible for maintaining a clean work area at all times and clean up after installation.
- 1.2.25 The Contractor shall be required to maintain a supervisor on site at all time during installation of tile and coordinate all work through on site City representative.

1.3 Performance Time:

- 1.3.1 The Contractor shall have 45 calendar days to order all supplies/equipment and complete all the work associated with and required by the contract after receipt of the written Notice to Proceed from the City.

1.4 Warranty:

- 1.4.1 The Contractor shall warranty all labor, materials and workmanship for one year subsequent to acceptance of work by the City of Houston.

2.0 Bid Line Item No. 2: Furnish and Install Exterior Damp Proofing and Brick Veneer:

- 2.1 The Contractor shall be required to provide all labor, materials, equipment, safety, insurance, transportation, and permits necessary to furnish and install exterior damp proofing and brick veneer at the aforementioned location for the General Services Department on behalf of the Houston Fire Department. The installation shall be in strict accordance with the technical specifications and structural drawings stated/referenced herein.

2.2 Installation of Exterior "Damp Proofing" and Brick Veneer:

- 2.2.1 See attached floor plan, elevations & cut-sheets of Fire Station No. 13 for locations of the exterior brick veneer to be installed.
- 2.2.2 The Contractor shall be required to provide the damp proofing using "Laticrete products, as per the technical specifications.
- 2.2.3 The brick veneer must be applied per the plan Drawing Sheet "Revision" No ASK.01 SECTION DETAILS 6 & 7. Additional section details are on Drawing Sheet No. A.601

A PDF version of Technical Specifications & Structural Drawings for Fire Station No. 13 can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C25406>

2.2.4 General Information on Structure and Work:

2.2.4.1 Fire Station No. 13 will receive a new standing seam metal "Shed" roof as part of the renovation. The exterior walls of the existing structure and the "New Addition" are of CMU (Block) construction.

2.2.4.2 Flood Proofing: Provided by the City

2.2.4.2.1 Upper sections will be framed in as part of the roofing contract. These areas will be sheathed with "Dense Glas" Cement backer board. Pressure washing and sand blasting of the existing CMU will be provided by the City, including areas receiving "brick veneer.

2.3 Performance Time:

2.3.1 The Contractor shall have **45 calendar days** to order all supplies/equipment and complete all the work associated with and required by the contract after receipt of the written Notice to Proceed from the City.

2.4 Warranty:

2.4.1 The Contractor shall warranty all labor, materials and workmanship for **one year** subsequent to acceptance of work by the City of Houston.

2.3 Contact:

2.3.1 Contact: Keith Andrews 713-859-3170 or Mike Sturm 713-859-3169, City of Houston, General Services Department, Renovation Group.

3.0 SPECIFIED EQUIPMENT OR EQUIVALENT:

3.1 Wherever in the specifications any materials or processes are indicated or specified by patent or proprietary name and/or by name of manufacturer, such specifications shall be deemed to be used for the purpose of facilitating descriptions of the performance, materials and/or processes desired and shall be deemed to be followed by the words, "or equivalent", if not so stated in the specifications herein.

3.2 The burden of proof shall rest with the bidder, in the course of a technical evaluation, to prove that the proposed item(s) are equivalent to the performance, materials, processes, or articles specified. DETERMINATION AS TO WHETHER THE ITEM (S) BID IS (ARE)

EQUIVALENT TO THOSE SPECIFIED SHALL REST SOLELY WITH THE CITY PURCHASING AGENT AND THE RECEIVING DEPARTMENT.

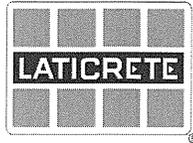
4.0 BRAND NAME OR TRADE NAME:

- 4.1 Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing the general quality level, design and performance desired. Such references are not intended to limit or restrict bidding by other Contractors/Suppliers, but are intended to approximate the quality design or performance that is desired. Any bid that proposes like quality, design or performance, will be considered. Equivalent products will be considered, provided a complete description and product literature is provided. Unless a specific exception is made, the assumption will be that the item bid is exactly as specified on the Invitation to Bid.

END OF SECTION

PART II

TECHNICAL SPECIFICATIONS / FLOOR PLANS & STRUCTURAL DRAWINGS DAMP PROOFING – LATICRETE PRODUCTS



MVIS™ Air & Water Barrier

DS-661.0-0115

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

MVIS™ Air & Water Barrier

2. MANUFACTURER

LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235
Toll Free: 1.800.243.4788, ext. 235
Fax: +1.203.393.1684
Internet: www.laticrete.com

3. PRODUCT DESCRIPTION

MVIS Air & Water Barrier is single component, load bearing, fluid applied, waterproofing, crack isolation, air barrier membrane. MVIS Air & Water Barrier produces a seamless, monolithic elastomeric coating and bonds directly to a wide variety of substrates. MVIS Air & Water Barrier is a low VOC, self-curing, water – based formula containing antimicrobial technology used in construction where air & water barriers are required to improve building efficiencies & durability. MVIS Air & Water Barrier is designed to enhance building longevity, save energy and increase building comfort.

Uses

- Designed for use as an air and water barrier behind exterior wall claddings.
- Performs as a component of air barrier assembly when used with other wall components within the building envelope.
- Bridges up to 1/4" (6mm) gaps on sheathing board joints with Waterproofing/Anti-Fracture Fabric.
- Creates an air and water barrier coating for applications to glass mat gypsum exterior sheathing panels, exterior glue plywood, OSB, cement board sheathing and other approved substrates.
- Consult LATICRETE Technical Services Department for further options.

Advantages

- Meets ASTM E2357 Air Leakage of Building Assemblies.
- Adhered Exterior veneers may be installed to membrane using

Polymer Fortified Veneer Mortars over concrete, brick, cement plaster and cement backer board.

- Excellent bond strength.
- Contribute to overall building energy efficiency.
- Equipped with anti-microbial technology.
- Works together with MVIS Transition Tape and MVIS Flexible Sealing Tape to help provide complete protection of the building envelope.
- Meets ASTM D 1970 Nail Sealability requirements.
- Lighter color for ease of inspection.
- Safe—no solvents and non-flammable.
- MVIS Air & Water Barrier is an Air Barrier Association of America (ABAA) Evaluated Material and is part of an ABAA Evaluated Assembly.

Suitable Substrates

- Concrete & Brick Masonry †
- Cement Render †
- Oriented Strand Board (OSB) *
- Exterior Glue Plywood *
- Cement Backer Board * †
- Glass Mat Gypsum Exterior Sheathing Panels *

† Suitable as a load bearing substrate for installation of direct adhered masonry veneers.

* Consult panel manufacturer for specific installation recommendations and to verify acceptability for intended use.

Packaging

Commercial Unit
5 gal (18.9 L) pail liquid (36 commercial units/pallet)

Approximate Coverage

Commercial Unit: 250 ft² (23.2 m²)
Each wet coat thickness is 15 – 22 mils, 0.015" – 0.022" (0.4 – 0.6mm); use wet film gauge to check thickness; consumption/coat is approximately 0.01 gal/ft² (0.4 L/m²); coverage/coat is approximately 100 ft²/gal (2.5 m²/L). Applied in two coats for a total dry coat thickness of 20-30 mils, 0.02-0.03" (0.5-0.8mm); for a total of 250 ft² per 5 gallons/23.2m² per (18.9 L) pail.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years* if stored at temperatures >32°F (0°C) and <110°F (43°C).

Limitations

- Do not bond to particle board, interior glue plywood, luan, Masonite® or hardwood surfaces.
- OSB is not suitable as a veneer substrate.
- Do not install over structural cracks, cracks with vertical

- movement or cracks with >1/8" (3 mm) horizontal movement.
- Do not use as a primary roofing membrane over occupied space.
- Based on information provided in the Technical Data Table – Section 4 of this document. The design professional / specifier should detail and specify vapor barrier layer material type and location within the installation assembly and in accord with local building codes and to determine suitability of MVIS™ Air & Water Barrier within the installation assembly.
- Do not expose to negative hydrostatic pressure, rubber solvents or ketones.
- Do not expose membrane directly to sun or weather for more than 90 days for direct adhered masonry veneer or cavity wall air and water barrier installations.
- Do not use below grade.
- MVIS Air & Water Barrier is a secondary weather barrier. The outer façade finish is the primary weather barrier and must be installed and maintained per manufacturer's guidelines in order to ensure the proper performance of MVIS Air & Water Barrier.
- Do not install if surface or air temperature is below 50°F (10°C) or above 90°F (32°C).
- Not for use beneath cement or other plaster finishes. Consult with plaster manufacturer for their recommendations when waterproofing membrane is required under plaster finishes.

Cautions

Consult SDS for more safety information.

- Review local building codes and obtain any required approvals before using MVIS Air & Water Barrier. Placement of MVIS Air & Water Barrier in a wall assembly to be determined by project design professional.
- It is the responsibility of the project design professionals to ensure that the air barrier, vapor barrier, insulation, and waterproofing membrane are all properly placed to prevent the movement of air and moisture into and out of the building to ensure maximum performance.
- Allow wet mortars/renderers to cure for a minimum of 72 hours at 70°F (21°C) / 50% R.H. prior to installing MVIS Air & Water Barrier.
- Mechanical anchors, brick ties, furring strips, finish cladding supports or other penetrations through MVIS Air & Water Barrier should be sealed and made air and watertight.
- For all finishes: The successful performance and installation of exterior finishes is dependent upon the proper design and construction of the finish, adjacent building materials and systems of the assembly. Follow all applicable industry guidelines and building codes for the respective utilized finish.
- When MVIS Air & Water Barrier is installed in conjunction with other building materials; it must be properly integrated so that water is diverted to the exterior of the wall system.
- Use of certain additives, coatings or cleansers on or in the façade system may impact the performance of MVIS Air & Water Barrier. It is the user's responsibility to determine the proper construction materials needed.
- For adhered veneer applications, substrates must be structurally sound, stable and rigid enough to support the intended finish. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/600 where L=span length.
- Placement of MVIS Air & Water Barrier in a wall assembly to be determined by project design professional.

4. TECHNICAL DATA

Applicable Standard

ASTM E 2357: Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.

ICC – ES AC212: Acceptance Criteria for Resistive Coatings as Water Resistive Barrier over Exterior Sheathing.

ICC – ED AC38: Acceptance Criteria for Water-Resistive Barriers Total VOC content pounds/gallon (grams/liter) of product in unused form is 0.02lb/gal (2.39 g/l).

Physical Properties

Physical Property	Test Method	Specifications	Results
Fastener Sealability	ASTM D1970	No Leakage	Pass
Flatwise Tensile Strength to Aluminum	ASTM C297	15 psi (0.34 MPa)	546 psi (3.8 MPa)
Flatwise Tensile Strength to Copper	ASTM C297	15 psi (0.34 MPa)	216 psi (1.5 MPa)
CAN/ULC – S742-11	Proposal Number 12-006-04895	<0.05 L/s-m ² at 75 pa	A1 Rating
Air Leakage	ASTM E2357	<0.3 L/s-m ²	0.00168 L/s-m ²
Flatwise Tensile Strength to Galvanized Steel	ASTM C297	15 psi (0.34 MPa)	530 psi (3.7 MPa)
Flatwise Tensile Strength to Polyvinyl Chloride (PVC)	ASTM C297	15 psi (0.34 MPa)	273 psi (1.9 MPa)
Tensile Strength Painted Aluminum	ASTM C297	15 psi (0.34 MPa)	368 psi (2.5 MPa)
Freeze Thaw Glass Mat Gypsum Exterior Sheathing Panels	AC212 Sec. 4.2	No deterioration	Pass 10 Cycles
Freeze Thaw Cement Board	AC212 Sec. 4.2	No deterioration	Pass 10 Cycles
Water Resistance Test Glass Mat Exterior Gypsum Sheathing Panels	ASTM D2247	No deterioration	Passed 14 Day Exposure
Water Resistance Test Cement Board	ASTM D2247	No deterioration	Passed 14 Day Exposure
Pull-Off Strength CMU	ASTM D4541-02	15.95 PSI	223 PSI
Pull-Off Strength Glass Mat Gypsum Exterior Sheathing Panels	ASTM D4541-02	15.95 PSI	47 PSI
Water Vapor Transmission Rate	ASTM E96-00e1 (Procedure A) Desiccant Method	N/A	1.081 gm/24 hr.m2
Water Vapor Permeance	ASTM E96-00e1 (Procedure A) Desiccant Method	N/A	0.157 (grains/hr.in.Hg.ft2) (Perms)
Water Vapor Transmission Rate	ASTM E96-00e1 (Procedure B) Water Method	N/A	6.8 gm/24 hr.m2
Water Vapor Permeance	ASTM E96-00e1 (Procedure B) Water Method	N/A	1.002 (grains/hr.in.Hg.ft2) (Perms)
Water Penetration Test	ASTM E331	No Water Penetration	Pass
Transverse Load (Structural) Test	ASTM E1233	No Cracking	Pass
Racking Shear Test	ASTM E72	No Cracking	Pass
Restrained Environmental Conditioning	AC212 Sec. 4.7.3	No Cracking	Pass
Weathering Test	AC212 SEC. 4.8	No Sign Of Failure	Pass

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DS-661.0-0115

Ultraviolet Exposure	AC212	No Sign Of Failure	Pass
Accelerated Aging	AC212	No Sign Of Failure	Pass
Hydrostatic Pressure Test	AATCC 127	No Leakage	Pass
Air Permeance Test	ASTM E 2178	<0.02 L/S-m ² at 75Pa	Pass

The data in the above table shall be used by the Project Design Professional to determine suitability, placement, building code conformance and over-all construct appropriateness of a given installation assembly.

5. INSTALLATION

See MVIS™ Air & Water Barrier How to Install Instructions DS 661.5 for complete installation instructions.

MVIS Air & Water Barrier can be applied using airless spray equipment or paint roller. All areas must have two coats to ensure proper coverage. Substrate will not show through MVIS Air & Water Barrier if coated with 0.020–0.030" (0.5–0.8 mm) of dried membrane. Color changes from a light sage to olive green when fully cured. Refer to LATICRETE® TDS 410M for more information on the spray application of MVIS Air & Water Barrier.

Cleaning

While wet, MVIS Air & Water Barrier can be washed from tools with water.

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information, call:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010

For on-line Distributor Information, visit LATICRETE at

www.laticrete.com.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM.

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.15: LATICRETE 15 Year System Warranty
For Steel or Wood Framed Exterior Facades
(United States and Canada)

DS 025.0: LATICRETE 25 Year System Warranty
(United States and Canada)

8. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service

Hotline:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty
- DS 230.15: LATICRETE 15 Year System Warranty –
For Steel or Wood Framed Exterior Facades
(United States and Canada)
- DS 025.0: LATICRETE 25 Year System Warranty
(United States and Canada)
- DS 070.0: LATAPOXY Waterproof Flashing Mortar
- DS 237.0: Waterproofing/Anti-Fracture Fabric
- DS 661.5: How to install instructions – MVIS Air & Water
Barrier
- DS 658.0: MVIS Transition Tape
- DS 659.0: MVIS Flexible Sealing Tape
- TDS 410M: Spraying MVIS Air & Water Barrier

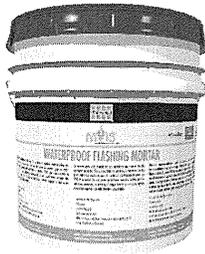
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LATAPOXY® Waterproof Flashing Mortar

DS-070.0-0714

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

LATAPOXY® Waterproof Flashing Mortar

2. MANUFACTURER

LATICRETE International, Inc.

1 LATICRETE Park North

Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235

Toll Free: 1.800.243.4788, ext. 235

Fax: +1.203.393.1684

Internet: www.laticrete.com

3. PRODUCT DESCRIPTION

LATAPOXY Waterproof Flashing Mortar is an epoxy-based membrane. It can be used to waterproof seams, gaps or joints between a variety of substrates including metal and PVC pipe penetrations or flashing. It is specifically designed to be used under ceramic tile, stone or brick for rapid installations which require a fast curing waterproof flashing mortar or membrane. LATAPOXY Waterproof Flashing Mortar is flexible, easy to apply and will allow for rapid installations.

Uses

- Flashing for plumbing fixtures and pipe penetrations
- Waterproof seams between flashing and facade building elements.
- Swimming pools, fountains, and water features
- Shower pans, stalls, tub surrounds
- Bathrooms, & laundries (Industrial, commercial and residential)
- Kitchens and food processing areas

Advantages

- Fast curing
- Epoxy based formula
- Extremely flexible
- Easy to apply using a trowel
- Adheres to metal and PVC pipes, drains and flashing

- Waterproof seam between flashing and façade

Suitable Substrates

- Concrete
- Cement Mortar Beds
- Cement Plaster
- Concrete And Brick Masonry
- Exterior Glue Plywood*
- Gypsum Wallboard*
- Ceramic Tile And Stone
- Terrazzo
- Cement Backer Board**
- Metal†

* Interior Applications Only, not for use in permanent wet areas.

** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

†Consult LATICRETE Technical Services prior to use.

Packaging

3.5 gallon pail with 2 Part A 1.4 lbs (0.6 kg), 2 Part B

1.2 lbs (0.5 kg), and 2 Part C 5.5 lbs (2.5 kg).

48 units per pallet.

Color

LATAPOXY Waterproof Flashing Mortar is white for easy verification of correct application.

Approximate Coverage

45 ft²/unit (4.2 m²) at 1/8" (3 mm) thick, depending on application.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years, if stored at temperatures >32°F (0°C) and <110°F (43°C).

Limitations

- Do not bond to OSB, interior glue plywood, particle board, luan, Masonite® or hardwood surfaces.
- Do not use as a primary roofing membrane over occupied space.
- Do not use over expansion joints, structural cracks or cracks with vertical differential movement.
- Do not bridge expansion joints, structural cracks, or cracks with vertical differential movement.
- Must be covered with ceramic tile, stone, brick, concrete, screeds, terrazzo or other wear resistant surface. For temporary cover, use protection board.
- Obtain approval by local building code authority before using product in shower pan applications.

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DS-070.0-0714

- Do not install directly over single layer wood floors, plywood tubs/showers/fountains or similar constructs.
- Not for use beneath cement or other plaster finishes. Consult with plaster manufacturer for their recommendations when waterproofing membrane is required under plaster finishes.
- Not for use under self-leveling underlayments or decorative wear surfaces.

Cautions

- Protect finished work from traffic until fully cured.
- Until cured LATAPOXY® Waterproof Flashing Mortar may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Contains Silica sand. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.
- Surface temperature must be >45°F (10°C) and less than <90°F (32°C) during installation and for 24 hours thereafter.
- Do not expose unprotected membrane to sun or weather for more than 30 days
- Protect from traffic or water until fully cured.
- Cold weather will require a longer cure time.

4. TECHNICAL DATA

Applicable Standard (ANSI 118.10)

Meets and exceeds all ANSI 118.10

Physical Properties

Test	Method	Results	Specification
Mold Growth	ANSI A118.10-4.1	No Growth	No Growth
Seam Strength	ANSI A118.10-4.2	38-48 lbs/2" wide (3.3-4.2 N/mm wide)	>16 lbs/2" wide (1.4 N/mm wide)
Breaking Strength	ANSI A118.10-4.3	450-530 psi (3.1-3.6 MPa)	>170 psi (1.17 MPa)
Dimensional Stability	ANSI A118.10-4.4	0% change after 72 hr at 158°F (70°C) 0% change after 72 hr at -15°F (-26°C)	<0.7% change after 72 hr at 158°F (70°C) <0.7% change after 72 hr at -15°F (-26°C)
Waterproofness	ANSI A118.10-4.5	No Moisture	No Moisture Penetration After 48 Hrs
7 Day Shear Bond Strength	ANSI A118.10-5.3	110-150 psi (0.8-1.0 MPa)	>50 psi (0.34 MPa)
7 Day Cure 7 Day Water Soak Shear Strength	ANSI A118.10-5.4	75-95 psi (0.5-0.7 MPa)	>50 psi (0.34 MPa)
4 Week Shear Bond Strength	ANSI A118.10-5.5	90-120 psi (0.6-0.8 MPa)	>50 psi (0.34 MPa)
12 Week Shear Bond Strength	ANSI A118.10-5.6	110-130 psi (0.8-0.9 MPa)	>50 psi (0.34 MPa)
100 Day Water Soak Shear Strength	ANSI A118.10 M-5.7	55-80 psi (0.4-0.6 MPa)	>50 psi (0.34 MPa)
Thickness		40-125 mils (1-3 mm)	

5. INSTALLATION

Refer to DS 070.5 for complete installation instructions prior to using product.

Surface Preparation

Surface temperature must be 45-90°F (10-32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough or uneven concrete smooth to a wood float or better finish with a LATICRETE® Underlayment. Do not level with gypsum or asphalt based products. Maximum deviation in plane must not exceed 1/4" in 10 ft (6 mm in 3 m) with no more than 1/16" in 1 ft (1.5 mm in 0.3 m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water—installation may be made on a damp surface. New concrete slabs shall be damp cured a minimum of 14 days before application.

- Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length;

- Minimum construction for interior plywood floors:

SUBFLOOR: 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive;

UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 "Bonding Ceramic Tile, Stone or Brick Over Wood Floors" for complete details.

Mixing

Mix Part A with Part B for roughly 30 seconds with a low speed drill until thoroughly mixed, uniform in color. Add Part C and mix for 1 minute until evenly dispersal in the liquid. Product is now ready to apply.

Main Application

Apply product to substrate using 3/16" x 5/32" (5 x 4 mm) V notched trowel. Allow the trowel to gauge the appropriate amount of material onto the surface using the V notch side. Once material is applied, use the flat side of the trowel to "knock down" or flatten all ridges to produce a smooth flat surface (40-125 mils [1-3 mm] thick). Use wet film gauge to check thickness. Be sure to look for any "pinholes" or areas not covered by the material. If any voids appear, cover same or next day with LATAPOXY Waterproof Flashing Mortar. Make sure all 90° angles at cove and corners are properly filled.

Flashing and Facades Building Elements

- Make sure that flashing and facade building elements are free from rust, oil, dirt, etc. and any contaminants that might prevent adequate bonding.
- Ensure flashing is securely fastened, stable, rigid, and does not allow movement.
- Apply LATAPOXY® Waterproof Flashing Mortar directly to flashing and waterproof membrane (e.g. MVIS™ Air & Water Barrier) covering the facade building elements, extending 3" (76 mm) on both sides beyond the flashing and facade building elements interface. The mortar will bond directly to the flashing and waterproof membrane. Ensure that minimum thickness of 40 mil (1mm) is achieved.

Drains and Pipe Penetrations

- Make sure that pipes and drains are free from rust, oil, dirt, etc. and any contaminants that might prevent adequate bonding. For PVC penetrations, scarify pipe where membrane will be applied with sand paper.
- Ensure pipe penetrations and drains are securely fastened, stable, rigid, and do not allow movement.
- Pack all voids around pipe penetrations with closed cell backer rod in appropriate manner.
- Apply LATAPOXY Waterproof Flashing Mortar directly to pipe penetration, extending 3" (76 mm) above point of installation. No fabric or sealant is required. The membrane will bond directly to the pipe. Ensure proper thickness is achieved (minimum 40 mil [1 mm]).
- Flash LATAPOXY Waterproof Flashing Mortar directly over metal flange of the drain—do not cover the weep holes. A two part clamping ring style drain should be used.

Expansion Joints

- Trowel LATAPOXY Waterproof Flashing Mortar flush to the edge of the joint flanks on each side. Fill the joint with the appropriate sized closed cell backer rod and fill with LATASIL™ or MVIS Silicone Sealant.

Coves and Corners

Trowel LATAPOXY Waterproof Flashing Mortar 6" (152 mm) in both vertical and horizontal substrates from cove. Ensure proper thickness by using recommended trowel and install per installation instructions described in "Main Application" section.

Cleaning

Clean tools with water and soap before product sets.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY materials are available worldwide.

For Distributor Information:

Toll Free: 1.800.243.4788
Telephone: +1.203.393.0010
Internet: www.laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.15: LATICRETE 15 Year System Warranty for Steel or Wood Framed Exterior Facades (United States and Canada)

DS 230.15: LATICRETE 15 Year System Warranty - For Steel or Wood Framed Exterior Facades (United States and Canada)
DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)

8. MAINTENANCE

LATICRETE and LATAPOXY grouts, sealants and pointing mortars require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788 ext. 235
Telephone: +1.203.393.0010 ext. 235
Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.com

10. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty
DS 230.15: LATICRETE 15 Year System Warranty for Steel or Wood Framed Exterior Facades (United States and Canada)
DS 230.15: LATICRETE 15 Year System Warranty – For Steel or Wood Framed Exterior Facades (United States and Canada)
DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)
DS 661.0: MVIS Air & Water Barrier
DS 6200.1: LATASIL
DS 070.5: LATAPOXY Waterproof Flashing Mortar Instructions and Details
DS 233.0: MVIS Silicone Sealant
TDS 152: Bonding Ceramic Tile, Stone or Brick Over Wood Floors

LATICRETE International, Inc.
One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • www.laticrete.com

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DS-070.0-0714

A PDF version of the Damp Proofing Technical Specifications “Laticrete Products” can be viewed on the following web link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C25406>

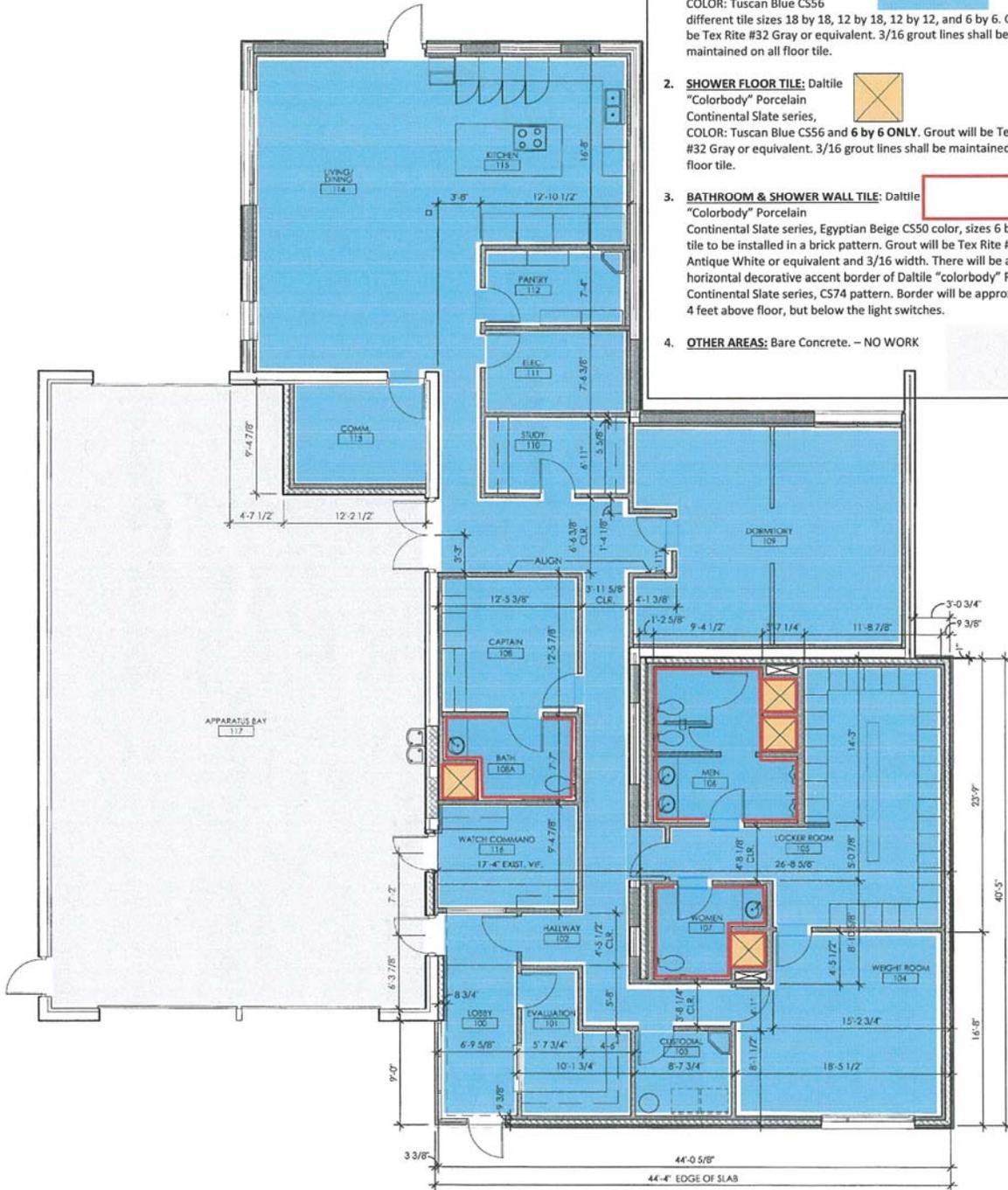
FLOOR PLANS AND TECHNICAL STRUCTURAL DRAWINGS

INTERIOR FLOOR AND WALL TILE PLAN

LEGEND

(SEE ALSO "SCOPE OF WORK")

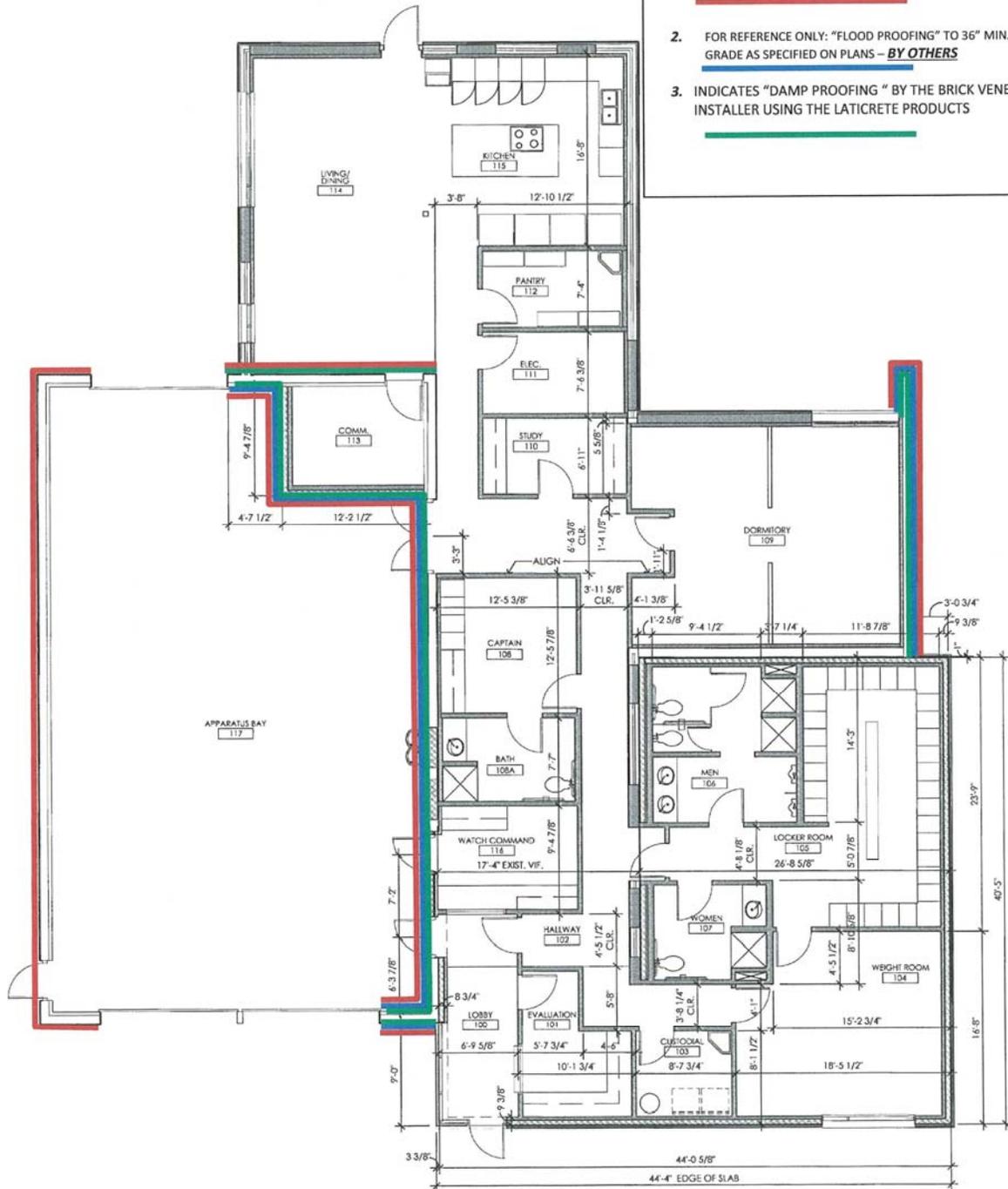
1. **FLOOR TILE:** Daltile "Colorbody" Porcelain Continental Slate series, COLOR: Tuscan Blue CS56 different tile sizes 18 by 18, 12 by 18, 12 by 12, and 6 by 6. Grout will be Tex Rite #32 Gray or equivalent. 3/16 grout lines shall be maintained on all floor tile.
2. **SHOWER FLOOR TILE:** Daltile "Colorbody" Porcelain Continental Slate series, COLOR: Tuscan Blue CS56 and 6 by 6 ONLY. Grout will be Tex Rite #32 Gray or equivalent. 3/16 grout lines shall be maintained on all floor tile.
3. **BATHROOM & SHOWER WALL TILE:** Daltile "Colorbody" Porcelain Continental Slate series, Egyptian Beige CS50 color, sizes 6 by 6. Wall tile to be installed in a brick pattern. Grout will be Tex Rite #49 Antique White or equivalent and 3/16 width. There will be a 4" horizontal decorative accent border of Daltile "colorbody" Porcelain, Continental Slate series, CS74 pattern. Border will be approximately 4 feet above floor, but below the light switches.
4. **OTHER AREAS:** Bare Concrete. - NO WORK

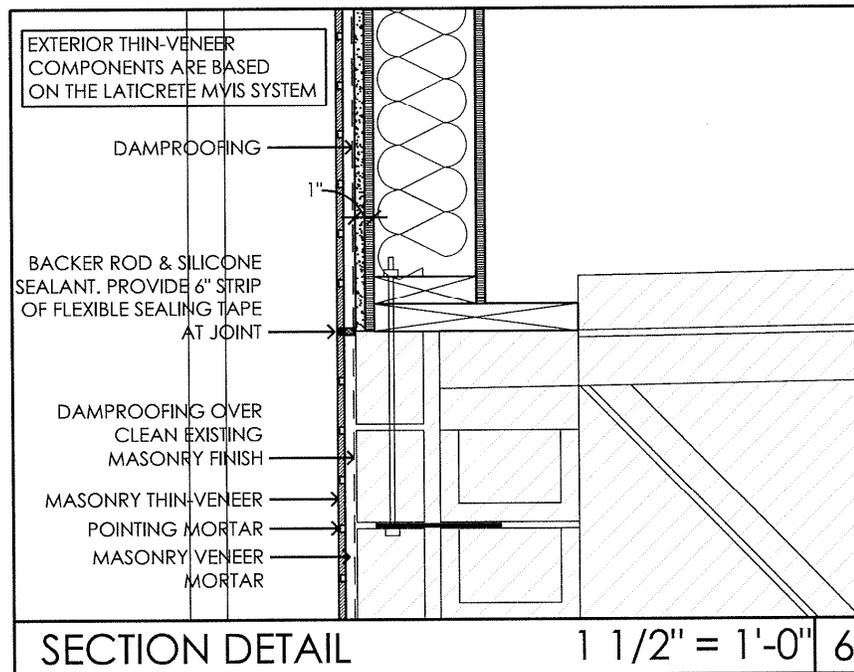
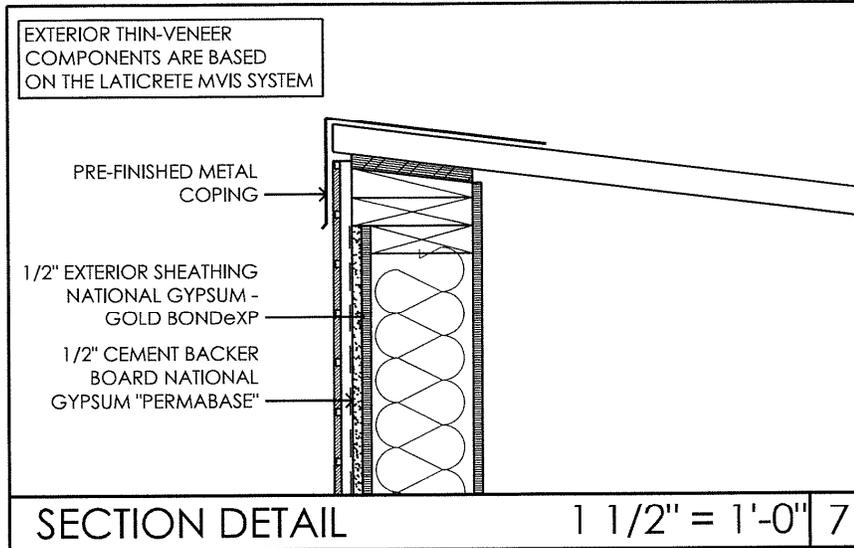


EXTERIOR BRICK VENEER & DAMP PROOFING PLAN

LEGEND
(SEE ALSO "SCOPE OF WORK")

1. BRICK VENEER LOCATIONS
2. FOR REFERENCE ONLY: "FLOOD PROOFING" TO 36" MIN. ABOVE GRADE AS SPECIFIED ON PLANS - **BY OTHERS**
3. INDICATES "DAMP PROOFING" BY THE BRICK VENEER INSTALLER USING THE LATICRETE PRODUCTS





RYDEN ARCHITECTURE
architecture | planning

1252 thornton road | houston, texas 77018
713.206.6893 (v)
contact: greg ryden, aia

Project Name:

Fire Station 13

Scale:

Sheet Number:

1 1/2"=1'-0" ASK.01

Drawing Title:

Wall Detail @ Apparatus Bay

Reference:

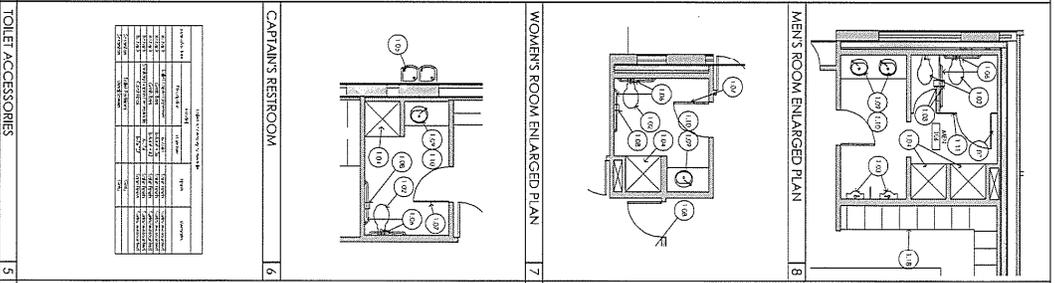
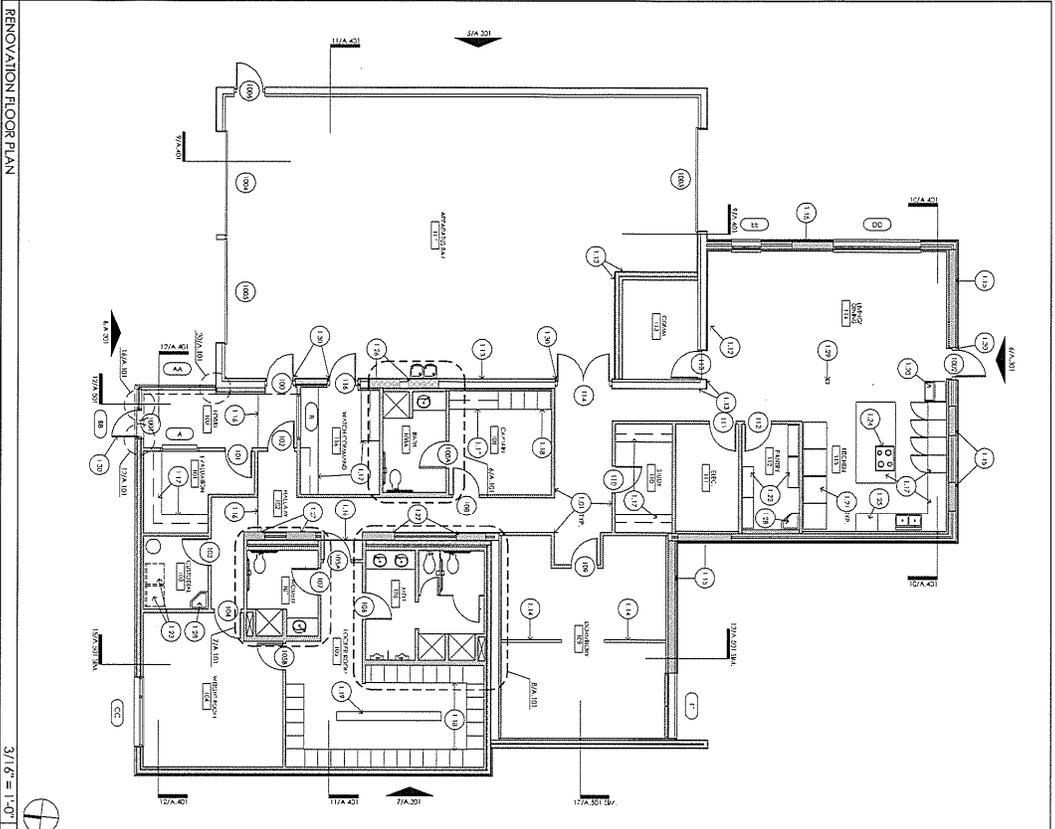
6 & 7/A.601

Date:

03.12.2015

Project No:

14005



NO.	REVISIONS	DATE	BY	CHKD.
1	ISSUED FOR PERMITS	08/20/2018	MM	MM
2	REVISIONS TO PERMITS	09/10/2018	MM	MM
3	REVISIONS TO PERMITS	09/10/2018	MM	MM
4	REVISIONS TO PERMITS	09/10/2018	MM	MM
5	REVISIONS TO PERMITS	09/10/2018	MM	MM
6	REVISIONS TO PERMITS	09/10/2018	MM	MM
7	REVISIONS TO PERMITS	09/10/2018	MM	MM
8	REVISIONS TO PERMITS	09/10/2018	MM	MM
9	REVISIONS TO PERMITS	09/10/2018	MM	MM
10	REVISIONS TO PERMITS	09/10/2018	MM	MM
11	REVISIONS TO PERMITS	09/10/2018	MM	MM
12	REVISIONS TO PERMITS	09/10/2018	MM	MM
13	REVISIONS TO PERMITS	09/10/2018	MM	MM
14	REVISIONS TO PERMITS	09/10/2018	MM	MM
15	REVISIONS TO PERMITS	09/10/2018	MM	MM
16	REVISIONS TO PERMITS	09/10/2018	MM	MM
17	REVISIONS TO PERMITS	09/10/2018	MM	MM
18	REVISIONS TO PERMITS	09/10/2018	MM	MM
19	REVISIONS TO PERMITS	09/10/2018	MM	MM
20	REVISIONS TO PERMITS	09/10/2018	MM	MM
21	REVISIONS TO PERMITS	09/10/2018	MM	MM
22	REVISIONS TO PERMITS	09/10/2018	MM	MM
23	REVISIONS TO PERMITS	09/10/2018	MM	MM
24	REVISIONS TO PERMITS	09/10/2018	MM	MM
25	REVISIONS TO PERMITS	09/10/2018	MM	MM
26	REVISIONS TO PERMITS	09/10/2018	MM	MM
27	REVISIONS TO PERMITS	09/10/2018	MM	MM
28	REVISIONS TO PERMITS	09/10/2018	MM	MM
29	REVISIONS TO PERMITS	09/10/2018	MM	MM
30	REVISIONS TO PERMITS	09/10/2018	MM	MM

RENNOVATION KEYED NOTES

1. Remove existing wall and ceiling in room 101. Replace with new wall and ceiling. See notes on drawings for details.

2. Remove existing wall and ceiling in room 102. Replace with new wall and ceiling. See notes on drawings for details.

3. Remove existing wall and ceiling in room 103. Replace with new wall and ceiling. See notes on drawings for details.

4. Remove existing wall and ceiling in room 104. Replace with new wall and ceiling. See notes on drawings for details.

5. Remove existing wall and ceiling in room 105. Replace with new wall and ceiling. See notes on drawings for details.

6. Remove existing wall and ceiling in room 106. Replace with new wall and ceiling. See notes on drawings for details.

7. Remove existing wall and ceiling in room 107. Replace with new wall and ceiling. See notes on drawings for details.

8. Remove existing wall and ceiling in room 108. Replace with new wall and ceiling. See notes on drawings for details.

9. Remove existing wall and ceiling in room 109. Replace with new wall and ceiling. See notes on drawings for details.

10. Remove existing wall and ceiling in room 110. Replace with new wall and ceiling. See notes on drawings for details.

11. Remove existing wall and ceiling in room 111. Replace with new wall and ceiling. See notes on drawings for details.

12. Remove existing wall and ceiling in room 112. Replace with new wall and ceiling. See notes on drawings for details.

13. Remove existing wall and ceiling in room 113. Replace with new wall and ceiling. See notes on drawings for details.

14. Remove existing wall and ceiling in room 114. Replace with new wall and ceiling. See notes on drawings for details.

15. Remove existing wall and ceiling in room 115. Replace with new wall and ceiling. See notes on drawings for details.

16. Remove existing wall and ceiling in room 116. Replace with new wall and ceiling. See notes on drawings for details.

17. Remove existing wall and ceiling in room 117. Replace with new wall and ceiling. See notes on drawings for details.

18. Remove existing wall and ceiling in room 118. Replace with new wall and ceiling. See notes on drawings for details.

19. Remove existing wall and ceiling in room 119. Replace with new wall and ceiling. See notes on drawings for details.

20. Remove existing wall and ceiling in room 120. Replace with new wall and ceiling. See notes on drawings for details.

21. Remove existing wall and ceiling in room 121. Replace with new wall and ceiling. See notes on drawings for details.

22. Remove existing wall and ceiling in room 122. Replace with new wall and ceiling. See notes on drawings for details.

23. Remove existing wall and ceiling in room 123. Replace with new wall and ceiling. See notes on drawings for details.

24. Remove existing wall and ceiling in room 124. Replace with new wall and ceiling. See notes on drawings for details.

25. Remove existing wall and ceiling in room 125. Replace with new wall and ceiling. See notes on drawings for details.

26. Remove existing wall and ceiling in room 126. Replace with new wall and ceiling. See notes on drawings for details.

27. Remove existing wall and ceiling in room 127. Replace with new wall and ceiling. See notes on drawings for details.

28. Remove existing wall and ceiling in room 128. Replace with new wall and ceiling. See notes on drawings for details.

29. Remove existing wall and ceiling in room 129. Replace with new wall and ceiling. See notes on drawings for details.

30. Remove existing wall and ceiling in room 130. Replace with new wall and ceiling. See notes on drawings for details.

RENNOVATION FLOOR PLAN

3/16" = 1'-0" 9'

TILE ACCESSORIES

NO.	DESCRIPTION	QTY	UNIT
1	12x18x3/8" CERAMIC TILE	100	SQ. FT.
2	12x12x3/8" CERAMIC TILE	50	SQ. FT.
3	6x6x3/8" CERAMIC TILE	25	SQ. FT.
4	3x6x3/8" CERAMIC TILE	10	SQ. FT.
5	12x12x3/8" CERAMIC TILE	5	SQ. FT.
6	6x6x3/8" CERAMIC TILE	2	SQ. FT.
7	3x6x3/8" CERAMIC TILE	1	SQ. FT.
8	12x18x3/8" CERAMIC TILE	1	SQ. FT.
9	12x12x3/8" CERAMIC TILE	1	SQ. FT.
10	6x6x3/8" CERAMIC TILE	1	SQ. FT.
11	3x6x3/8" CERAMIC TILE	1	SQ. FT.
12	12x12x3/8" CERAMIC TILE	1	SQ. FT.
13	6x6x3/8" CERAMIC TILE	1	SQ. FT.
14	3x6x3/8" CERAMIC TILE	1	SQ. FT.
15	12x18x3/8" CERAMIC TILE	1	SQ. FT.
16	12x12x3/8" CERAMIC TILE	1	SQ. FT.
17	6x6x3/8" CERAMIC TILE	1	SQ. FT.
18	3x6x3/8" CERAMIC TILE	1	SQ. FT.
19	12x12x3/8" CERAMIC TILE	1	SQ. FT.
20	6x6x3/8" CERAMIC TILE	1	SQ. FT.
21	3x6x3/8" CERAMIC TILE	1	SQ. FT.
22	12x18x3/8" CERAMIC TILE	1	SQ. FT.
23	12x12x3/8" CERAMIC TILE	1	SQ. FT.
24	6x6x3/8" CERAMIC TILE	1	SQ. FT.
25	3x6x3/8" CERAMIC TILE	1	SQ. FT.
26	12x12x3/8" CERAMIC TILE	1	SQ. FT.
27	6x6x3/8" CERAMIC TILE	1	SQ. FT.
28	3x6x3/8" CERAMIC TILE	1	SQ. FT.
29	12x18x3/8" CERAMIC TILE	1	SQ. FT.
30	12x12x3/8" CERAMIC TILE	1	SQ. FT.
31	6x6x3/8" CERAMIC TILE	1	SQ. FT.
32	3x6x3/8" CERAMIC TILE	1	SQ. FT.
33	12x12x3/8" CERAMIC TILE	1	SQ. FT.
34	6x6x3/8" CERAMIC TILE	1	SQ. FT.
35	3x6x3/8" CERAMIC TILE	1	SQ. FT.
36	12x18x3/8" CERAMIC TILE	1	SQ. FT.
37	12x12x3/8" CERAMIC TILE	1	SQ. FT.
38	6x6x3/8" CERAMIC TILE	1	SQ. FT.
39	3x6x3/8" CERAMIC TILE	1	SQ. FT.
40	12x12x3/8" CERAMIC TILE	1	SQ. FT.
41	6x6x3/8" CERAMIC TILE	1	SQ. FT.
42	3x6x3/8" CERAMIC TILE	1	SQ. FT.
43	12x18x3/8" CERAMIC TILE	1	SQ. FT.
44	12x12x3/8" CERAMIC TILE	1	SQ. FT.
45	6x6x3/8" CERAMIC TILE	1	SQ. FT.
46	3x6x3/8" CERAMIC TILE	1	SQ. FT.
47	12x12x3/8" CERAMIC TILE	1	SQ. FT.
48	6x6x3/8" CERAMIC TILE	1	SQ. FT.
49	3x6x3/8" CERAMIC TILE	1	SQ. FT.
50	12x18x3/8" CERAMIC TILE	1	SQ. FT.
51	12x12x3/8" CERAMIC TILE	1	SQ. FT.
52	6x6x3/8" CERAMIC TILE	1	SQ. FT.
53	3x6x3/8" CERAMIC TILE	1	SQ. FT.
54	12x12x3/8" CERAMIC TILE	1	SQ. FT.
55	6x6x3/8" CERAMIC TILE	1	SQ. FT.
56	3x6x3/8" CERAMIC TILE	1	SQ. FT.
57	12x18x3/8" CERAMIC TILE	1	SQ. FT.
58	12x12x3/8" CERAMIC TILE	1	SQ. FT.
59	6x6x3/8" CERAMIC TILE	1	SQ. FT.
60	3x6x3/8" CERAMIC TILE	1	SQ. FT.
61	12x12x3/8" CERAMIC TILE	1	SQ. FT.
62	6x6x3/8" CERAMIC TILE	1	SQ. FT.
63	3x6x3/8" CERAMIC TILE	1	SQ. FT.
64	12x18x3/8" CERAMIC TILE	1	SQ. FT.
65	12x12x3/8" CERAMIC TILE	1	SQ. FT.
66	6x6x3/8" CERAMIC TILE	1	SQ. FT.
67	3x6x3/8" CERAMIC TILE	1	SQ. FT.
68	12x12x3/8" CERAMIC TILE	1	SQ. FT.
69	6x6x3/8" CERAMIC TILE	1	SQ. FT.
70	3x6x3/8" CERAMIC TILE	1	SQ. FT.
71	12x18x3/8" CERAMIC TILE	1	SQ. FT.
72	12x12x3/8" CERAMIC TILE	1	SQ. FT.
73	6x6x3/8" CERAMIC TILE	1	SQ. FT.
74	3x6x3/8" CERAMIC TILE	1	SQ. FT.
75	12x12x3/8" CERAMIC TILE	1	SQ. FT.
76	6x6x3/8" CERAMIC TILE	1	SQ. FT.
77	3x6x3/8" CERAMIC TILE	1	SQ. FT.
78	12x18x3/8" CERAMIC TILE	1	SQ. FT.
79	12x12x3/8" CERAMIC TILE	1	SQ. FT.
80	6x6x3/8" CERAMIC TILE	1	SQ. FT.
81	3x6x3/8" CERAMIC TILE	1	SQ. FT.
82	12x12x3/8" CERAMIC TILE	1	SQ. FT.
83	6x6x3/8" CERAMIC TILE	1	SQ. FT.
84	3x6x3/8" CERAMIC TILE	1	SQ. FT.
85	12x18x3/8" CERAMIC TILE	1	SQ. FT.
86	12x12x3/8" CERAMIC TILE	1	SQ. FT.
87	6x6x3/8" CERAMIC TILE	1	SQ. FT.
88	3x6x3/8" CERAMIC TILE	1	SQ. FT.
89	12x12x3/8" CERAMIC TILE	1	SQ. FT.
90	6x6x3/8" CERAMIC TILE	1	SQ. FT.
91	3x6x3/8" CERAMIC TILE	1	SQ. FT.
92	12x18x3/8" CERAMIC TILE	1	SQ. FT.
93	12x12x3/8" CERAMIC TILE	1	SQ. FT.
94	6x6x3/8" CERAMIC TILE	1	SQ. FT.
95	3x6x3/8" CERAMIC TILE	1	SQ. FT.
96	12x12x3/8" CERAMIC TILE	1	SQ. FT.
97	6x6x3/8" CERAMIC TILE	1	SQ. FT.
98	3x6x3/8" CERAMIC TILE	1	SQ. FT.
99	12x18x3/8" CERAMIC TILE	1	SQ. FT.
100	12x12x3/8" CERAMIC TILE	1	SQ. FT.
101	6x6x3/8" CERAMIC TILE	1	SQ. FT.
102	3x6x3/8" CERAMIC TILE	1	SQ. FT.
103	12x12x3/8" CERAMIC TILE	1	SQ. FT.
104	6x6x3/8" CERAMIC TILE	1	SQ. FT.
105	3x6x3/8" CERAMIC TILE	1	SQ. FT.
106	12x18x3/8" CERAMIC TILE	1	SQ. FT.
107	12x12x3/8" CERAMIC TILE	1	SQ. FT.
108	6x6x3/8" CERAMIC TILE	1	SQ. FT.
109	3x6x3/8" CERAMIC TILE	1	SQ. FT.
110	12x12x3/8" CERAMIC TILE	1	SQ. FT.
111	6x6x3/8" CERAMIC TILE	1	SQ. FT.
112	3x6x3/8" CERAMIC TILE	1	SQ. FT.
113	12x18x3/8" CERAMIC TILE	1	SQ. FT.
114	12x12x3/8" CERAMIC TILE	1	SQ. FT.
115	6x6x3/8" CERAMIC TILE	1	SQ. FT.
116	3x6x3/8" CERAMIC TILE	1	SQ. FT.
117	12x12x3/8" CERAMIC TILE	1	SQ. FT.
118	6x6x3/8" CERAMIC TILE	1	SQ. FT.
119	3x6x3/8" CERAMIC TILE	1	SQ. FT.
120	12x18x3/8" CERAMIC TILE	1	SQ. FT.
121	12x12x3/8" CERAMIC TILE	1	SQ. FT.
122	6x6x3/8" CERAMIC TILE	1	SQ. FT.
123	3x6x3/8" CERAMIC TILE	1	SQ. FT.
124	12x12x3/8" CERAMIC TILE	1	SQ. FT.
125	6x6x3/8" CERAMIC TILE	1	SQ. FT.
126	3x6x3/8" CERAMIC TILE	1	SQ. FT.
127	12x18x3/8" CERAMIC TILE	1	SQ. FT.
128	12x12x3/8" CERAMIC TILE	1	SQ. FT.
129	6x6x3/8" CERAMIC TILE	1	SQ. FT.
130	3x6x3/8" CERAMIC TILE	1	SQ. FT.

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF HOUSTON SPECIFICATIONS FOR CONSTRUCTION.

2. ALL MATERIALS SHALL BE APPROVED BY THE ARCHITECT AND THE CITY OF HOUSTON.

3. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.

4. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED BUDGET.

5. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED QUALITY STANDARDS.

6. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED SAFETY STANDARDS.

7. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED ENVIRONMENTAL STANDARDS.

8. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED ACCESSIBILITY STANDARDS.

9. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED HISTORIC PRESERVATION STANDARDS.

10. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED ARCHITECTURAL STANDARDS.

11. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED ELECTRICAL STANDARDS.

12. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED MECHANICAL STANDARDS.

13. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED PLUMBING STANDARDS.

14. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED PAINT STANDARDS.

15. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED FINISH STANDARDS.

16. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED INSTALLATION STANDARDS.

17. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED MAINTENANCE STANDARDS.

18. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED OPERATION STANDARDS.

19. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED PERFORMANCE STANDARDS.

20. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED RELIABILITY STANDARDS.

21. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED SAFETY STANDARDS.

22. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED SECURITY STANDARDS.

23. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED SOUND STANDARDS.

24. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED VIBRATION STANDARDS.

25. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED WEATHER STANDARDS.

26. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED WIND STANDARDS.

27. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TEMPERATURE STANDARDS.

28. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED HUMIDITY STANDARDS.

29. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED AIR QUALITY STANDARDS.

30. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED NOISE STANDARDS.

31. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED LIGHT STANDARDS.

32. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED SOUND STANDARDS.

33. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED VIBRATION STANDARDS.

34. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED WEATHER STANDARDS.

35. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED WIND STANDARDS.

36. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TEMPERATURE STANDARDS.

37. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED HUMIDITY STANDARDS.

38. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED AIR QUALITY STANDARDS.

39. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED NOISE STANDARDS.

40. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED LIGHT STANDARDS.

City of Houston | HFD
Fire Station 13 Renovations and Addition
 2215 W. 43rd Street | Houston, Texas 77018

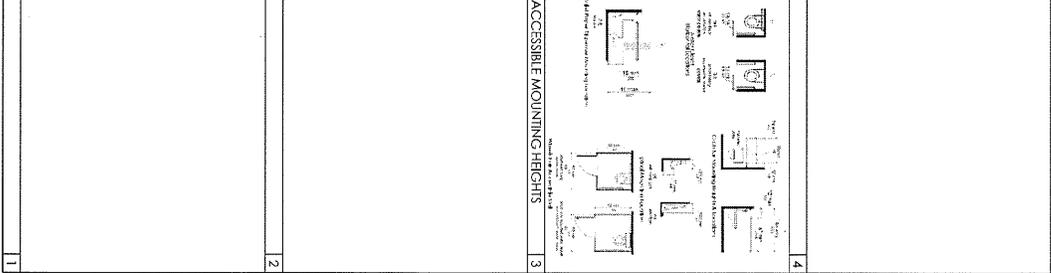
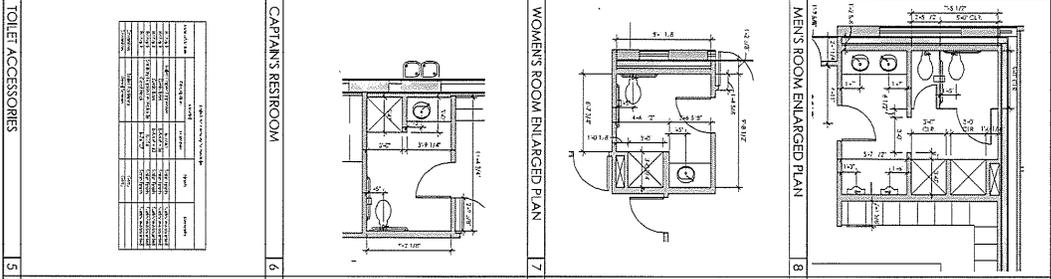
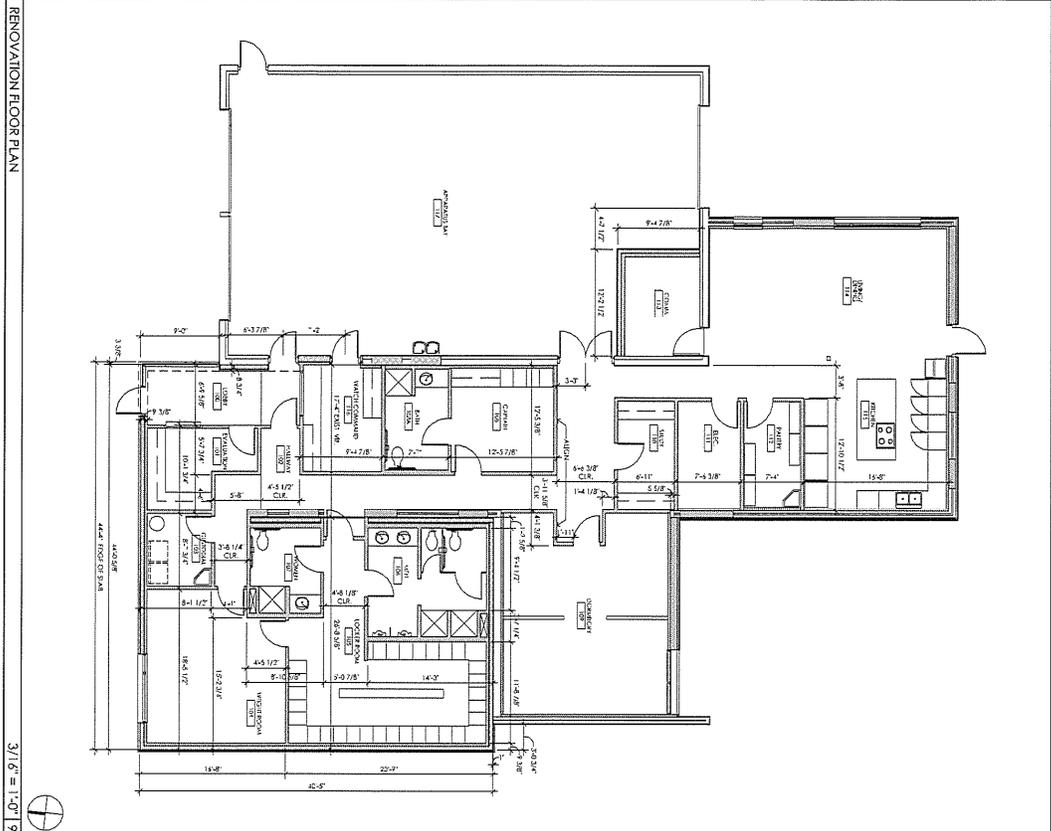
Renovation Floor Plan Annotations

A.101

RIDEN ARCHITECTURE
 Commercial | Residential | Planning
 1322 Houston Road
 Houston, Texas 77055
 Phone: (281) 489-9111
 Email: info@ridenarch.com

Consultant Engineers:
 Mechanical Engineer
 Electrical Engineer
 Structural Engineer
 Civil Engineer
 Fire Protection Engineer
 Contract: David Dancy, P.E.
 Contract: David Dancy, P.E.
 Houston, Texas 77063-3300
 Phone: (281) 692-7100
 Email: info@scipirest.com

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NO.	DESCRIPTION	DATE
1	TOILET ACCESSORIES	5
2		6
3		7
4		8
5		9

City of Houston | HFD
 Fire Station 13 Renovations and Addition
 2215 W. 43rd Street | Houston, Texas 77018

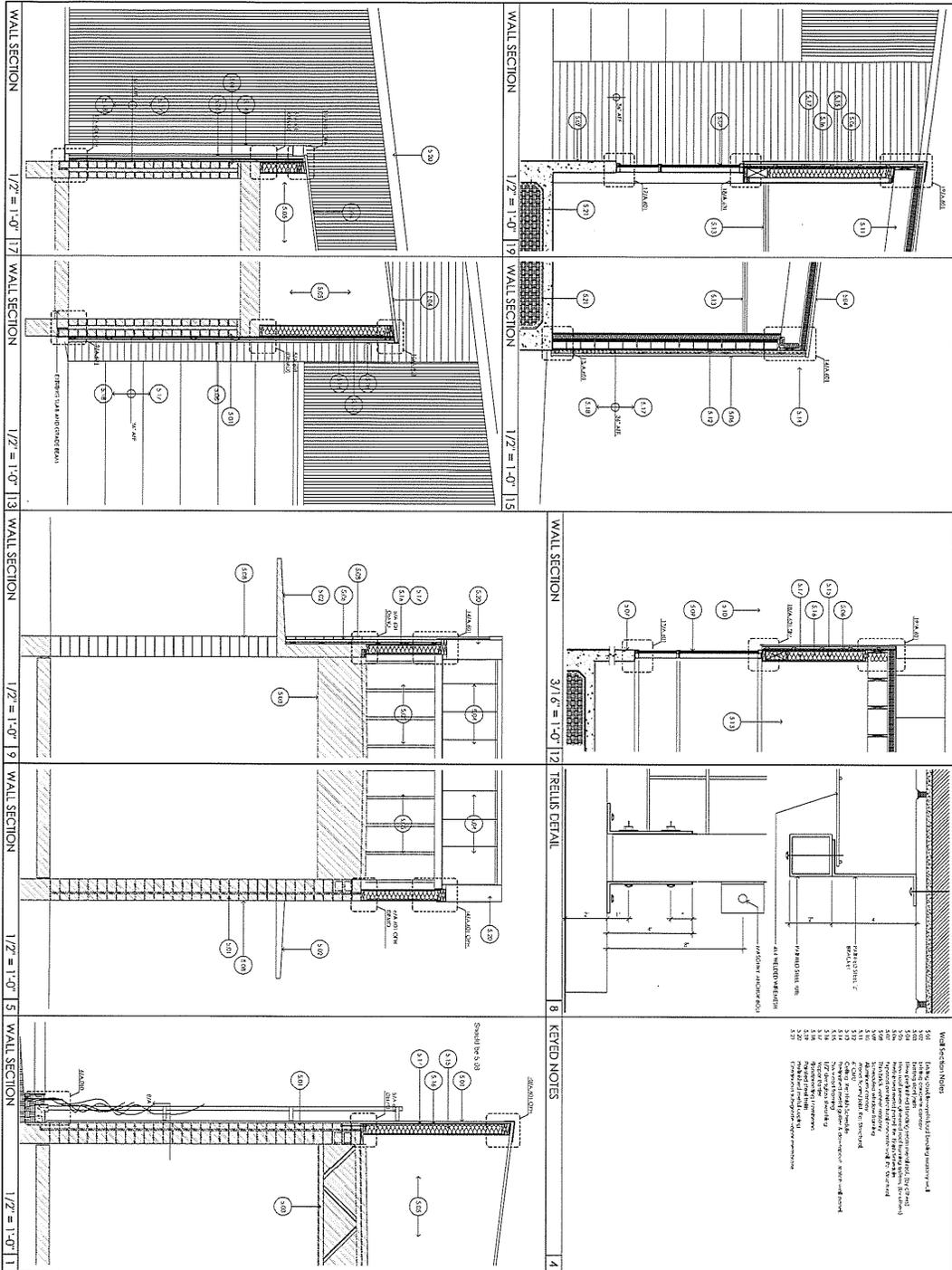
RYDEN ARCHITECTURE
 Commercial | Residential | Planning
 1228 Hightowered
 77130-6631
 contact: 979-966-3838

Professional Engineer
 MPE
 Houston Region
 3333 Bayport Drive, Suite 300
 Houston, Texas 77057
 Contact: David Denny, PE
 Email: david.denny@ryden.com

Standard
 CE Consulting Engineer
 6514
 Contact: David Denny, PE
 Houston, Texas 77065
 Email: david.denny@ryden.com

Project No. 14035

Renovation Floor Plan
 Dimensions
 A.102



WALL SECTION NOTES

1. See Section 05100 for details of exterior wall finish.
2. See Section 05200 for details of exterior window and door.
3. See Section 05300 for details of exterior door.
4. See Section 05400 for details of exterior wall.
5. See Section 05500 for details of exterior wall.
6. See Section 05600 for details of exterior wall.
7. See Section 05700 for details of exterior wall.
8. See Section 05800 for details of exterior wall.
9. See Section 05900 for details of exterior wall.
10. See Section 06000 for details of exterior wall.
11. See Section 06100 for details of exterior wall.
12. See Section 06200 for details of exterior wall.
13. See Section 06300 for details of exterior wall.
14. See Section 06400 for details of exterior wall.
15. See Section 06500 for details of exterior wall.
16. See Section 06600 for details of exterior wall.
17. See Section 06700 for details of exterior wall.
18. See Section 06800 for details of exterior wall.
19. See Section 06900 for details of exterior wall.
20. See Section 07000 for details of exterior wall.

KEYED NOTES

Should be as SH

1. See Section 05100 for details of exterior wall finish.

2. See Section 05200 for details of exterior window and door.

3. See Section 05300 for details of exterior door.

4. See Section 05400 for details of exterior wall.

5. See Section 05500 for details of exterior wall.

6. See Section 05600 for details of exterior wall.

7. See Section 05700 for details of exterior wall.

8. See Section 05800 for details of exterior wall.

9. See Section 05900 for details of exterior wall.

10. See Section 06000 for details of exterior wall.

11. See Section 06100 for details of exterior wall.

12. See Section 06200 for details of exterior wall.

13. See Section 06300 for details of exterior wall.

14. See Section 06400 for details of exterior wall.

15. See Section 06500 for details of exterior wall.

16. See Section 06600 for details of exterior wall.

17. See Section 06700 for details of exterior wall.

18. See Section 06800 for details of exterior wall.

19. See Section 06900 for details of exterior wall.

20. See Section 07000 for details of exterior wall.

City of Houston | HFD
 Fire Station 13 Renovations and Addition
 2215 W. 43rd Street | Houston, Texas 77018

Project No. 1405

Wall Sections & Details
A.501

RYDEN ARCHITECTURE
 Commercial | Residential | Planning

1323 Houston Road
 Houston, Texas 77018
 Phone: (281) 441-1111
 Fax: (281) 441-1112
 Website: rydenarch.com

Consultant Engineers:
 H&B
 Henderson Engineers
 3533 Houston Drive, Suite 200
 Houston, Texas 77018
 Phone: (281) 441-1111
 Fax: (281) 441-1112
 Website: h&b.com

Structural:
 CSE Consulting Engineers
 3533 Houston Drive, Suite 200
 Houston, Texas 77018
 Phone: (281) 441-1111
 Fax: (281) 441-1112
 Website: cse-engineers.com



RENOVATION FLOOR PLAN

RYDEN ARCHITECTURE
commercial | residential | planning

1528 Burnside Road
Houston, Texas 77004
713.204.6833
info@ryden.com

Consultant Engineer:
Professional Engineer
3555 Spring Creek, Suite 200
Houston, Texas 77058
Office: (713) 782-7177
Email: info@ryden.com

Project: City of Houston | HFD
Fire Station 13 Renovations and Addition
2215 W. 43rd Street | Houston, Texas 77018

Project No.: 1403

Section & Plan Details
A.601

Prepared: CST
Checked: CST
Reviewed: CST
Approved: CST

Date: 10/23/2014

Scale: As Shown

DOOR & FRAME TYPES

WINDOW OPENINGS

DOOR FRAME AND HARDWARE SCHEDULE

NO.	DESCRIPTION	QTY	UNIT	MARK	DATE
1	1 1/2\"	1	EA		
2	2\"	1	EA		
3	2 1/2\"	1	EA		
4	3\"	1	EA		
5	3 1/2\"	1	EA		
6	4\"	1	EA		
7	4 1/2\"	1	EA		
8	5\"	1	EA		
9	5 1/2\"	1	EA		
10	6\"	1	EA		
11	6 1/2\"	1	EA		
12	7\"	1	EA		
13	7 1/2\"	1	EA		
14	8\"	1	EA		
15	8 1/2\"	1	EA		
16	9\"	1	EA		
17	9 1/2\"	1	EA		
18	10\"	1	EA		
19	10 1/2\"	1	EA		
20	11\"	1	EA		
21	11 1/2\"	1	EA		
22	12\"	1	EA		
23	12 1/2\"	1	EA		
24	13\"	1	EA		
25	13 1/2\"	1	EA		
26	14\"	1	EA		
27	14 1/2\"	1	EA		
28	15\"	1	EA		
29	15 1/2\"	1	EA		
30	16\"	1	EA		
31	16 1/2\"	1	EA		
32	17\"	1	EA		
33	17 1/2\"	1	EA		
34	18\"	1	EA		
35	18 1/2\"	1	EA		
36	19\"	1	EA		
37	19 1/2\"	1	EA		
38	20\"	1	EA		
39	20 1/2\"	1	EA		
40	21\"	1	EA		
41	21 1/2\"	1	EA		
42	22\"	1	EA		
43	22 1/2\"	1	EA		
44	23\"	1	EA		
45	23 1/2\"	1	EA		
46	24\"	1	EA		
47	24 1/2\"	1	EA		
48	25\"	1	EA		
49	25 1/2\"	1	EA		
50	26\"	1	EA		
51	26 1/2\"	1	EA		
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53	27 1/2\"	1	EA		
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78	40\"	1	EA		
79	40 1/2\"	1	EA		
80	41\"	1	EA		
81	41 1/2\"	1	EA		
82	42\"	1	EA		
83	42 1/2\"	1	EA		
84	43\"	1	EA		
85	43 1/2\"	1	EA		
86	44\"	1	EA		
87	44 1/2\"	1	EA		
88	45\"	1	EA		
89	45 1/2\"	1	EA		
90	46\"	1	EA		
91	46 1/2\"	1	EA		
92	47\"	1	EA		
93	47 1/2\"	1	EA		
94	48\"	1	EA		
95	48 1/2\"	1	EA		
96	49\"	1	EA		
97	49 1/2\"	1	EA		
98	50\"	1	EA		
99	50 1/2\"	1	EA		
100	51\"	1	EA		
101	51 1/2\"	1	EA		
102	52\"	1	EA		
103	52 1/2\"	1	EA		
104	53\"	1	EA		
105	53 1/2\"	1	EA		
106	54\"	1	EA		
107	54 1/2\"	1	EA		
108	55\"	1	EA		
109	55 1/2\"	1	EA		
110	56\"	1	EA		
111	56 1/2\"	1	EA		
112	57\"	1	EA		
113	57 1/2\"	1	EA		
114	58\"	1	EA		
115	58 1/2\"	1	EA		
116	59\"	1	EA		
117	59 1/2\"	1	EA		
118	60\"	1	EA		
119	60 1/2\"	1	EA		
120	61\"	1	EA		
121	61 1/2\"	1	EA		
122	62\"	1	EA		
123	62 1/2\"	1	EA		
124	63\"	1	EA		
125	63 1/2\"	1	EA		
126	64\"	1	EA		
127	64 1/2\"	1	EA		
128	65\"	1	EA		
129	65 1/2\"	1	EA		
130	66\"	1	EA		
131	66 1/2\"	1	EA		
132	67\"	1	EA		
133	67 1/2\"	1	EA		
134	68\"	1	EA		
135	68 1/2\"	1	EA		
136	69\"	1	EA		
137	69 1/2\"	1	EA		
138	70\"	1	EA		
139	70 1/2\"	1	EA		
140	71\"	1	EA		
141	71 1/2\"	1	EA		
142	72\"	1	EA		
143	72 1/2\"	1	EA		
144	73\"	1	EA		
145	73 1/2\"	1	EA		
146	74\"	1	EA		
147	74 1/2\"	1	EA		
148	75\"	1	EA		
149	75 1/2\"	1	EA		
150	76\"	1	EA		
151	76 1/2\"	1	EA		
152	77\"	1	EA		
153	77 1/2\"	1	EA		
154	78\"	1	EA		
155	78 1/2\"	1	EA		
156	79\"	1	EA		
157	79 1/2\"	1	EA		
158	80\"	1	EA		
159	80 1/2\"	1	EA		
160	81\"	1	EA		
161	81 1/2\"	1	EA		
162	82\"	1	EA		
163	82 1/2\"	1	EA		
164	83\"	1	EA		
165	83 1/2\"	1	EA		
166	84\"	1	EA		
167	84 1/2\"	1	EA		
168	85\"	1	EA		
169	85 1/2\"	1	EA		
170	86\"	1	EA		
171	86 1/2\"	1	EA		
172	87\"	1	EA		
173	87 1/2\"	1	EA		
174	88\"	1	EA		
175	88 1/2\"	1	EA		
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177	89 1/2\"	1	EA		
178	90\"	1	EA		
179	90 1/2\"	1	EA		
180	91\"	1	EA		
181	91 1/2\"	1	EA		
182	92\"	1	EA		
183	92 1/2\"	1	EA		
184	93\"	1	EA		
185	93 1/2\"	1	EA		
186	94\"	1	EA		
187	94 1/2\"	1	EA		
188	95\"	1	EA		
189	95 1/2\"	1	EA		
190	96\"	1	EA		
191	96 1/2\"	1	EA		
192	97\"	1	EA		
193	97 1/2\"	1	EA		
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196	99\"	1	EA		
197	99 1/2\"	1	EA		
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199	100 1/2\"	1	EA		
200	101\"	1	EA		
201	101 1/2\"	1	EA		
202	102\"	1	EA		
203	102 1/2\"	1	EA		
204	103\"	1	EA		
205	103 1/2\"	1	EA		
206	104\"	1	EA		
207	104 1/2\"	1	EA		
208	105\"	1	EA		
209	105 1/2\"	1	EA		
210	106\"	1	EA		
211	106 1/2\"	1	EA		
212	107\"	1	EA		
213	107 1/2\"	1	EA		
214	108\"	1	EA		
215	108 1/2\"	1	EA		
216	109\"	1	EA		
217	109 1/2\"	1	EA		
218	110\"	1	EA		
219	110 1/2\"	1	EA		
220	111\"	1	EA		
221	111 1/2\"	1	EA		
222	112\"	1	EA		
223	112 1/2\"	1	EA		
224	113\"	1	EA		
225	113 1/2\"	1	EA		
226	114\"	1	EA		
227	114 1/2\"	1	EA		
228	115\"	1	EA		
229	115 1/2\"	1	EA		
230	116\"	1	EA		
231	116 1/2\"	1	EA		
232	117\"	1	EA		
233	117 1/2\"	1	EA		
234	118\"	1	EA		
235	118 1/2\"	1	EA		
236	119\"	1	EA		
237	119 1/2\"	1	EA		
238	120\"	1	EA		
239	120 1/2\"	1	EA		
240	121\"	1	EA		
241	121 1/2\"	1	EA		

SECTION C

2015 CITY OF HOUSTON BUILDING WAGE DECISION

A PDF version of the 2015 City of Houston Building Wage
can be viewed on the following web link

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C25406>

GENERAL CONDITIONS

A PDF version of the General Conditions can be viewed on the following web link:

<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C25406>

Document 00800

SUPPLEMENTARY CONDITIONS

The following Paragraphs amend and supplement the 2015 edition of General Conditions. Unaltered portions of General Conditions remain in effect.

ARTICLE 3 - THE CONTRACTOR

3.5 *LABOR: Insert the following Paragraph 3.5.3.1.1.*

3.5.3.1.1 Contractor shall make good faith efforts to comply with the City ordinances regarding Minority and Women Business Enterprises (MWBE) and Persons with Disabilities Business Enterprises (PDDBE) participation goals which are as follows:

- .1 the MBE goal is 0 percent, and*
- .2 the WBE goal is 0 percent.*

3.28 **CONTRACTOR DEBT**

3.28.1 **IF CONTRACTOR, AT ANY TIME DURING THE TERM OF THIS AGREEMENT, INCURS A DEBT, AS THE WORD IS DEFINED IN SECTION 15-122 OF THE HOUSTON CITY CODE OF ORDINANCES, IT SHALL IMMEDIATELY NOTIFY CITY CONTROLLER IN WRITING. IF CITY CONTROLLER BECOMES AWARE THAT CONTRACTOR HAS INCURRED A DEBT, IT SHALL IMMEDIATELY NOTIFY CONTRACTOR IN WRITING. IF CONTRACTOR DOES NOT PAY THE DEBT WITHIN 30 DAYS OF EITHER SUCH NOTIFICATION, CITY CONTROLLER MAY DEDUCT FUNDS IN AN AMOUNT EQUAL TO THE DEBT FROM ANY PAYMENTS OWED TO CONTRACTOR UNDER THIS AGREEMENT, AND CONTRACTOR WAIVES ANY RECOURSE THEREFORE.**

ARTICLE 8 - TIME

8.1 *PROGRESS AND COMPLETION: Delete Paragraph 8.1.6. and replace with the following 8.1.6.*

8.1.6.1 Contractor shall credit the City by Change Order for inspection services for overtime work or work performed on Sundays or Legal Holidays. The amount Contractor credits the City will be **\$50.00 per hour** per inspector for inspection services.

ARTICLE 9 - PAYMENTS AND COMPLETION

9.1 *UNIT PRICE WORK: Delete Section 9.1 in its entirety and insert the following Section 9.1.*

9.1 References to Unit Prices in individual Specification sections are not applicable to the Contract. Include payment for portions of the Work required by these sections in the Stipulated Price for the Contract.

9.12 LIQUIDATED DAMAGES: Insert the following Paragraph 9.12.1.1.

9.12.1.1 *The amount of liquidated damages provided in General Conditions Paragraph 9.12.1 payable by Contractor or Surety for each and every day of delay beyond Contract Time, are \$250.00 per day.*

ARTICLE 11 - INSURANCE AND BONDS

11.2 *INSURANCE TO BE PROVIDED BY CONTRACTOR: Delete Paragraph 11.2.8. and replace with the following 11.2.8.*

11.2.1.4 Contractor shall provide Owners and Contractor's Protective Liability Insurance only if the contractor's bid price is equal to or greater than \$100,000.00.

11.2.8 *Endorsement of Primary Insurance:* Each policy except Workers' Compensation Insurance must contain an endorsement that the policy is primary insurance to any other insurance available to additional insured with respect to claims arising under the Contract.

ONE-YEAR MAINTENANCE BOND

THAT WE, _____, as Principal, hereinafter called Contractor, and the other subscriber hereto, _____, as Surety, do hereby acknowledge ourselves to be held and firmly bound to the City of Houston, a municipal corporation, in the sum of \$_____, for the payment of which sum well and truly to be made to the City of Houston and its successors, the said Contractor and Surety do bind themselves, their heirs, executors, administrators, successors, jointly and severally.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT:

WHEREAS, the Contractor has on or about this day executed a Contract in writing with the City of Houston for _____, all of such work to be done as set out in full in said Contract documents therein referred to and adopted by the City Council, all of which are made a part of this instrument as fully and completely as if set out in full herein.

NOW THEREFORE, if the said Contractor shall comply with the provisions of Paragraph 11.5.1 of the General Conditions, and correct work not in accordance with the Contract documents discovered within the established one-year period, then this obligation shall become null and void, and shall be of no further force and effect; otherwise, the same is to remain in full force and effect.

Notices required or permitted hereunder shall be in writing and shall be deemed delivered when actually received or, if earlier, on the third day following deposit in a United States Postal Service post office or receptacle, with proper postage affixed (certified mail, return receipt requested), addressed to the respective other party at the address prescribed in the Contract documents, or at such other address as the receiving party may hereafter prescribe by written notice to the sending party.

IN WITNESS THEREOF, the said Contractor and Surety have signed and sealed this instrument on the respective dates written below their signatures and have attached current Power of Attorney.

ATTEST, SEAL: (if a corporation)

WITNESS: (if not a corporation)

Name of Contractor

By: _____
Name:
Title:

By: _____
Name:
Title:
Date:

ATTEST/SURETY WITNESS:

(SEAL)

Full Name of Surety

Address of Surety for Notice

Telephone Number of Surety

By: _____
Name:
Title:
Date:

By: _____
Name:
Title: Attorney-in-Fact
Date:

This Ordinance or Contract has been reviewed as to form by the undersigned legal assistant and have been found to meet established Legal Department criteria. The Legal Department has not reviewed the content of these documents.

Legal Assistant

Date

PERFORMANCE BOND

THAT WE, _____, as Principal, (the "Contractor"), and the other subscriber hereto, _____, as Surety, do hereby acknowledge ourselves to be held and firmly bound to the City of Houston (the "City"), a municipal corporation, in the penal sum of \$_____ for the payment of which sum, well and truly to be made to the City, its successors and assigns, Contractor and Surety do bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT:

WHEREAS, the Contractor has on or about this day executed a Contract in writing with the City for _____, all of such work to be done as set out in full in said Contract documents therein referred to and adopted by the City Council, all of which are made a part of this instrument as fully and completely as if set out in full herein.

NOW THEREFORE, if the said Contractor shall faithfully and strictly perform the Contract in all its terms, provisions, and stipulations in accordance with its true meaning and effect, and in accordance with the Contract documents referred to therein and shall comply strictly with each and every provision of the Contract and with this Bond, then this obligation shall become null and void and shall have no further force and effect; otherwise the same is to remain in full force and effect. Should the Contractor fail to faithfully and strictly perform the Contract in all its terms, including but not limited to the indemnifications thereunder, the Surety shall be liable for all damages, losses, expenses and liabilities that the City may suffer in consequence thereof, as more fully set forth herein.

It is further understood and agreed that the Surety does hereby relieve the City or its representatives from the exercise of any diligence whatever in securing compliance on the part of the Contractor with the terms of the Contract, and the Surety agrees that it shall be bound to take notice of and shall be held to have knowledge of all acts or omissions of the Contractor in all matters pertaining to the Contract. The Surety understands and agrees that the provision in the Contract that the City will retain certain amounts due the Contractor until the expiration of 30 days from the acceptance of the Work is intended for the City's benefit, and the City will have the right to pay or withhold such retained amounts or any other amount owing under the Contract without changing or affecting the liability of the Surety hereon in any degree.

It is further expressly agreed by Surety that the City or its representatives are at liberty at any time, without notice to the Surety, to make any change in the Contract documents and in the Work to be done hereunder, as provided in the Contract, and in the terms and conditions thereof, or to make any change in, addition to, or deduction from the Work to be done hereunder; and that such changes, if made, shall not in any way vitiate the obligation in this Bond and undertaking or release the Surety there from.

It is further expressly agreed and understood that the Contractor and Surety will fully indemnify and save harmless the City from any liability, loss, cost, expense, or damage arising

out of Contractor's performance of the Contract.

If the City gives Surety notice of Contractor's default, Surety shall, within 45 days, take one of the following actions:

1. Arrange for Contractor, with consent of the City, to perform and complete the Contract; or
2. Take over and assume completion of the Contract itself, through its agents or through independent contractors, and become entitled to the payment of the balance of the Contract Price.

If the Surety fails to take either of the actions set out above, it shall be deemed to have waived its right to perform and complete the Contract and receive payment of the balance of the Contract Price and the City shall be entitled to enforce any remedies available at law, including but not limited to completing the Contract itself and recovering any cost in excess of the Original Contract Price from the Surety.

This Bond and all obligations created hereunder shall be performable in Harris County, Texas. This Bond is given in compliance with the provisions of Chapter 2253, Texas Government Code, as amended, which is incorporated herein by this reference.

Notices required or permitted hereunder shall be in writing and shall be deemed delivered when actually received or, if earlier, on the third day following deposit in a United States Postal Service post office or receptacle, with proper postage affixed (certified mail, return receipt requested), addressed to the respective other Party at the address prescribed in the Contract documents, or at such other address as the receiving party may hereafter prescribe by written notice to the sending party.

EXECUTED in multiple originals this _____ day of _____, 20_____.

ATTEST/SEAL: (if a corporation)

WITNESS: (if not corporation)

(Name of Principal)

(Address of Principal)

By: _____

Name:

Title:

Date:

By: _____

Name:

Title:

Date:

ATTEST/SEAL

SURETY WITNESS:

(Name of Surety)

(Address of Surety)

By: _____

Name:

Title:

Date:

By: _____

Name:

Title:

Date:

REVIEWED:

This Bond has been reviewed as to form by the undersigned Paralegal and has been found to meet established Legal Department criteria.

Date

Paralegal

STATUTORY PAYMENT BOND

THAT WE, _____, as Principal, hereinafter called Contractor and the other subscriber hereto, _____, as Surety, do hereby acknowledge ourselves to be held and firmly bound unto the City of Houston, a municipal corporation, in the sum of \$_____ for the payment of which sum, well and truly to be made to the City of Houston, and its successors, the said Contractor and Surety do bind themselves, their heirs, executors, administrators, successors, jointly and severally.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH THAT:

WHEREAS, the Contractor has on or about this day executed a contract in writing with the City of Houston for _____, _____, all of such work to be done as set out in full in said Contract documents therein referred to and adopted by the City Council, all of which are made a part of this instrument as fully and completely as if set out in full herein;

NOW, THEREFORE, if the said Contractor shall pay all claimants supplying labor and materials to him or a Subcontractor in the prosecution of the Work provided for in the Contract, then, this obligation shall be void; otherwise the same is to remain in full force and effect;

PROVIDED HOWEVER, that this Bond is executed pursuant to the provisions of Chapter 2253, Texas Government Code, as amended, and all liabilities on this Bond shall be determined in accordance with the provisions of said Article to the same extent as if it were copied at length herein.

IN WITNESS THEREOF, the said Contractor and Surety have signed and sealed this instrument on the respective dates written below their signatures and have attached current Power of Attorney.

ATTEST, SEAL: (if a corporation)
WITNESS: (if not a corporation)

Name of Contractor

By: _____
Name:
Title:

By: _____
Name:
Title:
Date:

ATTEST/SURETY WITNESS:
(SEAL)

Full Name of Surety

Address of Surety for Notice

Telephone Number of Surety

By: _____
Name:
Title:
Date:

By: _____
Name:
Title: Attorney-in-Fact
Date:

This Ordinance or Contract has been reviewed as to form by the undersigned legal assistant and have been found to meet established Legal Department criteria. The Legal Department has not reviewed the content of these documents.

Legal Assistant

Date