

## SECTION 095126-WOOD PANEL CEILINGS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section.

#### 1.2 SUMMARY

##### A. Section Includes:

1. Wood veneer ceiling panels.
2. Exposed grid suspension system.
3. Wire hangers, fasteners, main runners, wall angle moldings and accessories.

##### B. Related Sections:

1. Section 06 42 00 (06420) Wood Paneling
2. Section 09 51 00 (09510) - Acoustical Ceilings
3. Section 09 20 00 (09250) - Plaster and Gypsum Board
4. Divisions 23 (15) - HVAC
5. Division 26 (16) Sections - Electrical Work

##### C. Alternates

1. **Prior Approval:** Unless otherwise provided for in the Contract documents, proposed product substitutions may be submitted no later than TEN (10) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect's review of the proposal for acceptability and approved products will be set forth by the Addenda. If included in a Bid are substitute products which have not been approved by Addenda, the specified products shall be provided without additional compensation.
2. Submittals which do not provide adequate data for the product evaluation will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); panel design, size, composition, color, and finish; suspension system component profiles and sizes; compliance with the referenced standards.

#### 1.3 REFERENCES

##### A. American Society for Testing and Materials (ASTM):

1. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
2. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot- Dip Process.
3. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.

4. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
  5. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
  6. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
  7. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
  8. ASTM E 1264 Classification for Acoustical Ceiling Products.
- B. CISCA Seismic Zones (0-2) (3-4) Ceilings and Interior Systems Construction Association Guidelines for Seismic Restraint for Direct Hung Suspended Ceiling Assemblies.

#### 1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each type of ceiling unit and suspension system required.
- B. Installation Instructions: Submit manufacturer's installation instructions as referenced in Part 3, Installation.
- C. Samples: Minimum 3 1/2 inch x 5 1/2 inch samples of specified acoustical panel; 8 inch long samples of exposed wall molding and suspension system, including main runner and 4 foot cross tees.
- D. Shop Drawings: Layout and details of ceilings. Show locations of items which are to be coordinated with, or supported by the ceilings.
- E. Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards.
- F. All products not conforming to manufacturer's current published values must be removed, disposed of and replaced with complying product at the expense of the Contractor performing the work.

#### 1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide ceiling panel units and grid components by a single manufacturer.
- B. Fire Performance Characteristics: Identify ceiling components with appropriate markings of applicable testing and inspecting organization.
  1. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products.
    - a. Flame Spread: 25 or less
    - b. Smoke Developed: 50 or less
  2. HPVA (Hardwood Plywood and Veneer Association) certification and audit program per ASTM E-84 tunnel test.
- C. Woodworking Standards: Manufacturer must comply with specified provisions of Architectural Woodworking Institute quality standards.

- D. Coordination of Work: Coordinate ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store ceiling components in a dry interior location in their cartons prior to installation to avoid damage. Store cartons in a flat, horizontal position. The protectors between the panels should not be removed until installation.
- B. Do not store in unconditioned spaces with humidity greater than 55 percent or lower than 25 percent relative humidity and temperatures lower than 50 degrees F or greater than 86 degrees F. Panels must not be exposed to extreme temperatures, for example, close to a heating source or near a window with direct sunlight.
- C. Handle ceiling units carefully to avoid chipped edges or damage to units in any way.

#### 1.7 PROJECT CONDITIONS

- A. Wood veneer ceiling materials should be permitted to reach room temperature and have a stabilized moisture content for a minimum of 72 hours before installation. (Remove plastic wrap to allow panels to climatize).
- B. The wood veneer panels should not be installed in spaces where the temperature or humidity conditions vary greatly from the temperatures and conditions that will be normal in the occupied space.
- C. As interior finish products, the wood veneer panels are designed for installation in temperature conditions between 50 degrees F and 86 degrees F, in spaces where the building is enclosed and HVAC systems are functioning and will be in continuous operation. Relative humidity should not fall below 25 percent or exceed 55 percent.

#### 1.8 WARRANTY

- A. Wood Veneer Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include, but are not limited to:
  - 1. Ceiling Panels: Defects in materials or factory workmanship
  - 2. Grid System: Rusting and manufacturer's defects
- B. Warranty Period:
  - 1. Wood veneer panels: One (1) year from date of installation.
  - 2. Grid: Ten years from date of installation.
- C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

#### 1.9 MAINTENANCE

- A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.

1. Ceiling Units: Furnish quality of full-size units equal to 2.0 percent of amount installed.
2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 1.0 percent of amount installed.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

#### A. Ceiling Panels:

1. Armstrong World Industries, Inc.

#### B. Suspension Systems:

1. Armstrong World Industries, Inc.

### 2.2.0 WOOD VENEER CEILING UNITS

#### A. Ceiling Panels Type AP-1:

1. Surface Texture: Smooth
2. Composition: Wood
3. Finish: Manufacturer's standard natural veneer
4. Species: Natural Variations Maple
5. Size: 72in X 24in X 3/4in
6. Perforation Options:
7. Edge Banding and Trim: To match face veneer
8. Edge Profile: Concealed (1/4 inch reveal visual)
9. Edge Banding and Trim: To match face veneer
10. Noise Reduction Coefficient (NRC): ASTM C 423:

1. W4 perforation: 0.65 (with acoustical infill)

#### 11. Ceiling Attenuation Class (CAC): ASTM C 1414:

1. W4 perforation: 28

12. Flame Spread: ASTM E 1264; Class A (HPVA Certified with audit program per ASTM E84)
13. Recycle Content: 92% Pre-Consumer
14. Dimensional Stability: Standard
15. Acceptable Product: WoodWorks Concealed, Item# 5984W4, as manufactured by Armstrong World Industries.

#### B. Accessories:

1. Fiberglass Infill Panel (fiberglass infill) #8200100
2. BioAcoustic Infill Panel, #5479 (Beige) or #5823 (Black)

3. Edge Banding for field-modified panels: Pre-finished pressure sensitive adhesive banding is available 15/16 inch and 3/4 inch wide and in 50 foot lengths, #6408\_\_\_\_\_
4. Perimeter Trim - 6" Woodworks Concealed Veneer Wrapped Aluminum Trim - 6" x 10' (Natural Variations Beech)(Natural Variations Maple)(Natural Variations Light Cherry)(Natural Variations Dark Cherry)(Bamboo Patina)(Bamboo Native)(Black - painted)

### 2.3.0 SUSPENSION SYSTEMS

- A. Components: All main beams and cross tees shall be commercial quality hot dipped galvanized steel (galvanized steel, aluminum, or stainless steel) as per ASTM A 653. Main beams and cross tees are double-web steel construction with 15/16 in type exposed flange design. Exposed surfaces chemically cleansed, capping prefinished galvanized steel (aluminum or stainless steel) in baked polyester paint. Main beams and cross tees shall have rotary stitching (exception: extruded aluminum or stainless steel).
  1. Structural Classification: ASTM C 635 Heavy Duty
  2. Color: TechBlack or as chosen by architect from manufacturer's list of available colors.
  3. Acceptable Product: Prelude XL 15/16" Exposed Tees manufactured by Armstrong World Industries, Inc.
- B. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
- C. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least time three design load, but not less than 12 gauge.
- D. Accessories
  1. T-Bar Hook, Item #5986
  2. Wood Screws, #91070A244
  3. Safety Cable, #6091
  4. Support Hanger, #SH12

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out.
- B. Proper design for both supply air and return air, maintenance of the HVAC filters and building interior space are essential to minimize soiling. Before starting the HVAC system, make sure supply air is properly filtered and the building interior is free of construction dust.

### 3.2 PREPARATION

- A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

### 3.3 INSTALLATION

- A. Install suspension system and panels in compliance with ASTM C636; Cisca Seismic Guidelines; approved construction drawings; with the authorities having jurisdiction; and in accordance with the manufacturer's installation instructions.
- B. Suspend main beam from overhead construction with hanger wires spaced 4 feet on center along the length of the main runner. Install hanger wires plumb and straight. The suspension system must be leveled to within 1/4 inch in 10 feet and must be square to within 1/16 inch in 2 feet.
- C. Install main beams 48 inches on center with 48 inch cross tees every 24 inches at 90 degrees to the main beam. Install the 24 inch cross tees at midpoints of the 48 inch cross tees.
- D. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
- E. Follow the instructions found in "WoodWorks Concealed Installation Instructions", LA-297524 for border treatment of the WoodWorks Concealed panels. The face of the suspension system rests directly on the molding or trim flange.
- F. Cut panel edges that are exposed to view will have to be treated to look like factory edges. Pre-finished peel and stick edge banding is recommended for this purpose.

### 3.4 ADJUSTING AND CLEANING

- A. Replace damaged and broken panels.
- B. Clean exposed surfaces of ceilings panels, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION- 095126

## SECTION 097714-WOOD VENEER WALL PANELS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section.

#### 1.2 SUMMARY

##### A. Section Includes:

1. Acoustical wall panels and installation components.

##### B. Related Sections:

1. Section 092000 (09200) – Plaster and Gypsum Board
2. Division 26 (16) Sections - Electrical Work

##### C. Alternates

1. Prior Approval: Unless otherwise provided for in the Contract documents, proposed product substitutions may be submitted no later than TEN (10) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect's review of the proposal for acceptability and approved products will be set forth by the Addenda. If included in a Bid are substitute products which have not been approved by Addenda, the specified products shall be provided without additional compensation.
2. Submittals which do not provide adequate data for the product evaluation will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); Panel design, size, composition, color, and finish; installation system component profiles and sizes; Compliance with the referenced standards.

#### 1.3 REFERENCES

##### A. Test Methods:

1. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
2. ASTM E 84/CAN/ULC S102 Standard Test Method for Surface Burning Characteristics of Building Materials.
3. CAN/ULC S102 Standard Test Method for Surface Burning Characteristics of Building Materials.

#### 1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each type of acoustical wall panel required.
- B. Samples: Minimum 3 inch x 3 inch samples of specified acoustical wall substrate; minimum 4 inch long samples of attachment method including trim and decorative accents.
- C. Shop Drawings: Submit shop drawings showing how panels are to be laid out on the walls, details of trim members and width of panels. Width of panels and location of vertical seams are critical.

#### 1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide acoustical panel units and installation components by a single manufacturer.
- B. Fire Performance Characteristics: Identify acoustical wall components with appropriate markings of applicable testing and inspecting organization.
  - 1. Surface Burning Characteristics: As follows, tested per ASTM E 84,
    - a. Flame Spread: 25 or less
    - b. Smoke Developed: 50 or less
- C. Coordination of Work: Coordinate acoustical wall work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical wall panels to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical wall panels, permit them to reach room temperature and a stabilized moisture content.
- C. Handle acoustical wall panels carefully to avoid chipping edges or damaged units in any way.

#### 1.7 PROJECT CONDITIONS

- A. Space Enclosure:

Wood veneer wall panel materials should be permitted to reach room temperature and have a stabilized moisture content for a minimum of 72 hours before installation.

The wood veneer panels should not be stored or installed in spaces where the temperature or humidity conditions vary greatly from the temperatures and conditions that will be normal in the occupied space.

As interior finish products, the wood veneer panels are designed for installation in temperature conditions between 50 degrees F and 86 degrees F, in spaces where the building is enclosed and HVAC systems are functioning and will be in continuous operation. Relative humidity should not fall below 25 percent or exceed 55 percent.

## 1.8 WARRANTY

- A. Wall Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace acoustical panels that fail within the warranty period. Failures include, but are not limited to:
  - 1. Wall Panels: Manufacturer's defects
- B. Warranty Period:
  - 1. Wall panels: One (1) year from date of substantial completion.
- C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

## 1.9 MAINTENANCE

- A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.
  - 1. Wall Panels: Furnish quantity of full-size units equal to 5.0 percent of amount installed.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Acoustical Wall Panels:
  - 1. Armstrong World Industries, Inc.

### 2.2 ACOUSTICAL WALL PANELS

- A. Wall Panels: Type AWP-1:
  - 1. Surface Texture: Smooth
  - 2. Composition: Particle Board
  - 3. Finish: Natural Variations (Dark Cherry)

4. Size: 24 inches X 96 inches X 3/4 inch
5. Edge Profile: K2C2 both vertical edges for interface (panels intended for Z clip installation should be ordered with no kerfs in any edges).
6. Noise Reduction Coefficient (NRC): ASTM C 423;
  - a. W1 Perforation: Unperforated, N/A
  - b. W4 Perforation: 0.55 (D Mounting with Acoustical Fleece), 0.80 (D Mounting with 1 inch Fiberglass Backer)
7. Flame Spread: ASTM E84 (HPVA), Class A
8. Dimensional Stability: Standard – space must be enclosed with HVAC systems operating at all times.
9. Acceptable Product: Woodworks Walls, item #(5818W1NDC) (5818W4NDC), as manufactured by Armstrong World Industries.

B. Wall Panel Accessories:

1. Decorative Accent Trims and Splines

- a. Reverse Bead Accent Trim: Item #5850C\_\_\_\_\_, 8 foot, 9 foot or 10 foot (solid wood)
- b. Reveal Accent Trim: Item #5850K\_\_\_\_\_, 8 foot, 9 foot or 10 foot, Black or Natural Anodized
- c. Wall Installation Spline (concealed): Item #5858\_\_BLY, 8 foot, 9 foot or 10 foot, Black Aluminum

2. Moldings:

- a. 4 inch Base Molding: Item #5855\_\_\_\_\_, 8 feet 4 inches, Solid Wood
- b. 6 inch Base Molding: Item #5856\_\_\_\_\_, 8 feet 4 inches, Solid Wood
- c. 1.15 inch Finish Molding: Item #5849\_\_\_\_\_, (8 feet 4 inches)(9 feet 4 inches)(10 feet 2 inches), Solid Wood
- d. 1.875 inch Finish Molding: Item #5907\_\_\_\_\_, (8 feet 4 inches)(9 feet 4 inches)(10 feet 2 inches), Solid Wood
- e. Inside Corner Molding: Item #5867\_\_\_\_\_, (8 feet 4 inches)(9 feet 4 inches)(10 feet 2 inches), Solid Wood

C. Decorative Corners and Splines:

- a. Peak Corner: Item #58581\_\_\_\_\_, (8 feet)(9 feet)(9 feet 10 inches), Solid Wood
- b. Bullnose Corner, Item #5852\_\_\_\_\_, (8 feet)(9 feet)(9 feet 10 inches), Solid Wood
- c. Reverse Bead Corner, Item #5853\_\_\_\_\_, (8 feet)(9 feet)(9 feet 10 inches), Solid Wood
- d. Chamfered Corner, Item #5854\_\_\_\_\_, (8 feet)(9 feet)(9 feet 10 inches), Solid Wood
- e. Corner Installation Spline (concealed), (8 feet)(9 feet)(9 feet 10 inches), Plastic or Aluminum

D. Chair Rail Accessories:

- a. Mounting Rail: Item #5861\_\_\_\_\_, 8 feet 4 inches, Solid Wood
- b. Rail Insert: Item #5863\_\_\_\_\_, 8 feet 4 inches, Solid Wood
- c. Rail Insert-Aluminum: Item #5963NA, 8 feet, Solid Wood and Aluminum
- d. Rail Cap: Item #5864\_\_\_\_\_, 8 feet 4 inches, Solid Wood
- e. Easel Ledge, Item #5866\_\_\_\_\_, 8 feet 4 inches, Solid Wood

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations.

### 3.2 PREPARATION

- A. Measure each wall area and establish layout of acoustical units to balance border widths at opposite edges of each wall. Coordinate panel layout with mechanical and electrical fixtures.

### 3.3 INSTALLATION

- A. Install wall panels by attaching the panels to an existing wall per the manufacturer's instructions, LA 297712, and in accordance with the authorities having jurisdiction.

### 3.4 ADJUSTING AND CLEANING

- A. Replace damaged and broken panels.
- B. Use a clean, dry, soft, white cloth to wipe off any dirt or greasy fingerprints. If this does not clean the panel, use a damp clean soft white cloth or sponge with a mild detergent to wipe the panel.

END OF SECTION 097714

## SECTION 102113 - TOILET COMPARTMENTS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:

- 1. Solid-polymer toilet compartments configured as toilet enclosures and urinal screens.

- B. Related Sections:

- 1. Section 055000 "Metal Fabrications" for supports that attach ceiling-hung compartments floor-and-ceiling-anchored compartments and post-to-ceiling screens to overhead structural system.
  - 2. Section 061035 "Miscellaneous Rough Carpentry" for blocking and overhead support of floor-and-ceiling-anchored compartments.
  - 3. Section 102800 "Toilet, Bath, and Laundry Accessories" for toilet tissue dispensers, grab bars, purse shelves, and similar accessories.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: For toilet compartments. Include plans, elevations, sections, details, and attachments to other work.
  - 1. Show locations of cutouts for compartment-mounted toilet accessories.
  - 2. Show locations of reinforcements for compartment-mounted grab bars.
  - 3. Show locations of centerlines of toilet fixtures.
  - 4. Show ceiling grid and overhead support or bracing locations.
- C. Samples for Initial Selection: For each type of unit indicated. Include Samples of hardware and accessories involving material and color selection.
- D. Samples for Verification: For the following products, in manufacturer's standard sizes unless otherwise indicated:
  - 1. Each type of material, color, and finish required for units, prepared on 6-inch- (152-mm-) square Samples of same thickness and material indicated for Work.
  - 2. Each type of hardware and accessory.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of toilet compartment, from manufacturer.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For toilet compartments to include in maintenance manuals.

#### 1.6 QUALITY ASSURANCE

- A. Comply with requirements in GSA's CID-A-A-60003, "Partitions, Toilets, Complete."
- B. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84, or another standard acceptable to authorities having jurisdiction, by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  - 1. Flame-Spread Index: 25 or less.
  - 2. Smoke-Developed Index: 450 or less.
- C. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities" and ICC/ANSI A117.1 for toilet compartments designated as accessible.

#### 1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify actual locations of toilet fixtures, walls, columns, ceilings, and other construction contiguous with toilet compartments by field measurements before fabrication.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Aluminum Castings: ASTM B 26/B 26M.
- B. Aluminum Extrusions: ASTM B 221 (ASTM B 221M).
- C. Steel Sheet: Commercial steel sheet for exposed applications; mill phosphatized and selected for smoothness.
  - 1. Electrolytically Zinc Coated: ASTM A 879/A 879M, 01Z (03G).
  - 2. Hot-Dip Galvanized: ASTM A 653/A 653M, either hot-dip galvanized or galvanized.
- D. Stainless-Steel Sheet: ASTM A 666, Type 304, stretcher-leveled standard of flatness.
- E. Stainless-Steel Castings: ASTM A 743/A 743M.

- F. Adhesives: Manufacturer's standard product that complies with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

## 2.2 PHENOLIC-CORE UNITS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
  - 1. Accurate Partitions Corporation.
  - 2. American Sanitary Partition Corporation.
  - 3. Ampco, Inc.
  - 4. Bobrick Washroom Equipment, Inc.
  - 5. Bradley Corporation; Mills Partitions.
  - 6. Flush Metal Partition Corp.
  - 7. General Partitions Mfg. Corp.
  - 8. Global Steel Products Corp.
  - 9. Knickerbocker Partition Corporation.
  - 10. Metpar Corp.
  - 11. Partition Systems Incorporated of South Carolina.
  - 12. Rockville Partitions Incorporated.
  - 13. Sanymetal; a Crane Plumbing company.
  - 14. Shanahan's Limited.
  - 15. Tex-Lam Manufacturing, Inc.
  - 16. Weis-Robart Partitions, Inc.
- B. Toilet-Enclosure Style: Overhead braced.

## 2.3 SOLID-POLYMER UNITS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
  - 1. Accurate Partitions Corporation.
  - 2. Ampco, Inc.
  - 3. Bradley Corporation; Mills Partitions.
  - 4. Comtec Industries/Capitol Partitions.
  - 5. General Partitions Mfg. Corp.
  - 6. Global Steel Products Corp.
  - 7. Hadrian Manufacturing Inc.
  - 8. Knickerbocker Partition Corporation.
  - 9. Metpar Corp.
  - 10. Partition Systems Incorporated of South Carolina.
  - 11. Rockville Partitions Incorporated.
  - 12. Santana Products, Inc.
  - 13. Sanymetal; a Crane Plumbing company.
  - 14. Weis-Robart Partitions, Inc.

- B. Toilet-Enclosure Style: Overhead braced.
- C. Urinal-Screen Style: Wall hung.
- D. Door, Panel and Pilaster Construction: Solid, high-density polyethylene (HDPE) or polypropylene (PP) panel material, not less than 1 inch (25 mm) thick, seamless, with eased edges, no-sightline system, and with homogenous color and pattern throughout thickness of material.
  - 1. Integral Hinges: Configure doors and pilasters to receive integral hinges.
  - 2. Heat-Sink Strip: Manufacturer's standard continuous, stainless-steel strip fastened to exposed bottom edges of solid-polymer components to prevent burning.
  - 3. Color and Pattern: One color and pattern as selected by Architect from manufacturer's full range.
  - 4. Anit-graffiti finish.
- E. Pilaster Shoes and Sleeves (Caps): Manufacturer's standard design; stainless steel.
- F. Brackets (Fittings):
  - 1. Full-Height (Continuous) Type: Manufacturer's standard design; stainless steel.
    - a. Polymer Color and Pattern: Matching panel, Contrasting with panel, as indicated by manufacturer's designations, Contrasting with panel, as selected by Architect from manufacturer's full range.

## 2.4 ACCESSORIES

- A. Hardware and Accessories: Manufacturer's standard design, heavy-duty operating hardware and accessories.
  - 1. Material: Stainless steel.
  - 2. Hinges: Manufacturer's standard continuous, cam type that swings to a closed or partially open position.
  - 3. Latch and Keeper: Manufacturer's standard recessed latch unit designed for emergency access and with combination rubber-faced door strike and keeper. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible.
  - 4. Coat Hook: Manufacturer's standard combination hook and rubber-tipped bumper, sized to prevent in-swinging door from hitting compartment-mounted accessories.
  - 5. Door Bumper: Manufacturer's standard rubber-tipped bumper at out-swinging doors.
  - 6. Door Pull: Manufacturer's standard unit at out-swinging doors that complies with regulatory requirements for accessibility. Provide units on both sides of doors at compartments designated as accessible.
- B. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile and in manufacturer's standard finish.
- C. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel or chrome-plated steel or brass, finished to match the items they are securing, with theft-resistant-

type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use stainless steel, hot-dip galvanized steel, or other rust-resistant, protective-coated steel.

## 2.5 FABRICATION

- A. Overhead-Braced Units: Provide manufacturer's standard corrosion-resistant supports, leveling mechanism, and anchors at pilasters to suit floor conditions. Provide shoes at pilasters to conceal supports and leveling mechanism.
- B. Door Size and Swings: Unless otherwise indicated, provide 24-inch- (610-mm-) wide, in-swinging doors for standard toilet compartments and 36-inch- (914-mm-) wide, out-swinging doors with a minimum 32-inch- (813-mm-) wide, clear opening for compartments designated as accessible.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position with manufacturer's recommended anchoring devices.
  - 1. Maximum Clearances:
    - a. Pilasters and Panels: 1/2 inch (13 mm).
    - b. Panels and Walls: 1 inch (25 mm).
  - 2. Stirrup Brackets: Secure panels to walls and to pilasters with no fewer than three brackets attached at midpoint and near top and bottom of panel.
    - a. Locate wall brackets so holes for wall anchors occur in masonry or tile joints.
    - b. Align brackets at pilasters with brackets at walls.
- B. Overhead-Braced Units: Secure pilasters to floor and level, plumb, and tighten. Set pilasters with anchors penetrating not less than 1-3/4 inches (44 mm) into structural floor unless otherwise indicated in manufacturer's written instructions. Secure continuous head rail to each pilaster with no fewer than two fasteners. Hang doors to align tops of doors with tops of panels, and adjust so tops of doors are parallel with overhead brace when doors are in closed position.
- C. Urinal Screens: Attach with anchoring devices to suit supporting structure. Set units level and plumb, rigid, and secured to resist lateral impact.

### 3.2 ADJUSTING

- A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold doors open

approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors to return doors to fully closed position.

END OF SECTION 102113

# HOUSTON COMMUNITY COLLEGE FELIX FRAGA ACADEMIC CENTER LEVEL 3 RENOVATION

301 NORTH DRENNAN ST. , HOUSTON, TEXAS 77003

APRIL 22, 2013

HOUSTON COMMUNITY COLLEGE SYSTEM

## BOARD OF TRUSTEES

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1500 MCGOWEN SUITE 150. HOUSTON, TEXAS 77004  
(713) 524-4202 FAX (713) 524-4071



LOCATION MAP



## SMITH & COMPANY ARCHITECTS, INC.

1500 MCGOWEN SUITE 150. HOUSTON, TEXAS 77004  
(713) 524-4202 FAX (713) 524-4071

ARCHITECTS

## INFRASTRUCTURE ASSOCIATES

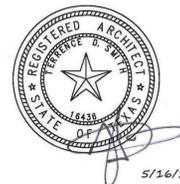
6117 RICHMOND AVE. SUITE 200 HOUSTON, TEXAS 77057  
(713) 417-1400 FAX (713) 622-0557

MECHANICAL, ELECTRICAL  
PLUMBING ENGINEERS

## LEVINSON ALCOSER ASSOCIATES, L.P.

1177 WEST LOOP SOUTH, SUITE 900, HOUSTON, TEXAS 77027  
(713) 787-0000 FAX (713) 850-8250

LABORATORY  
CONSULTANTS



## LIST OF DRAWINGS

COVER SHEET AND INDEX OF DRAWINGS  
A0.01 SYMBOLS, TABLE OF CONTENTS, & GENERAL INFORMATION  
A0.02 CODE COMPLIANCE & GENERAL NOTES  
A0.03 ADA ARCHITECTURAL BARRIER REMOVAL AND COMPLIANCE  
A0.04 ADA ARCHITECTURAL BARRIER REMOVAL AND COMPLIANCE  
A0.05 LIFE SAFETY / EGRESS PLAN  
A0.06 CONSTRUCTION STAGING AND COORDINATION

### ARCHITECTURAL DRAWINGS

EX.1.0 EXISTING SURVEY	A4.00 INTERIOR ELEVATIONS
A1.00 EXISTING SITE PLAN & PARKING REQUIREMENTS	A4.01 SCHEDULES, LEGENDS & NOTES
A2.00 FLOOR PLAN	A4.02 LAB CASEWORK ELEVATIONS
A2.20 ENLARGED PLANS	
A2.30 REFLECTED CEILING PLAN	
A2.31 CEILING DETAILS	
A3.00 DOOR AND FRAME TYPES DOOR AND FRAME SCHEDULE	
A3.01 DOOR DETAILS	
A3.02 PARTITION TYPES	
A3.03 MATERIAL AND FINISH SCHEDULE	
A3.04 PLAN DETAILS	

### MECHANICAL DRAWINGS

M0.01 NOTES AND LEGEND  
M0.02 SCHEDULES  
M1.01 THIRD FLOOR PLAN - DEMO MECHANICAL  
M1.11 THIRD FLOOR PLAN - DEMO MECHANICAL  
M2.01 THIRD FLOOR PLAN - NEW MECHANICAL  
M2.11 THIRD FLOOR PLAN - NEW MECHANICAL  
M3.01 DETAILS

### ELECTRICAL DRAWINGS

E1.01 SCHEDULES, NOTES AND LEGEND  
E1.02 SPECIFICATIONS AND NOTES  
E1.10 ONE LINE DIAGRAM  
E1.11 PANEL SCHEDULES  
E2.01 FLOOR PLAN - POWER  
E3.01 FLOOR PLAN - LIGHTING  
E4.01 FLOOR PLAN - SPECIAL SYSTEMS  
E5.01 DETAILS  
E5.02 DETAILS

### PLUMBING DRAWINGS

P1.01 SCHEDULES AND NOTES  
P2.01 FLOOR PLAN - SANITARY AND VENT PIPING  
P3.01 FLOOR PLAN - DOMESTIC AND GAS PIPING  
P4.01 RISER DIAGRAMS  
P5.01 DETAILS

### FIRE PROTECTION DRAWING

FP1.01 FIRE PROTECTION SYSTEM

ISSUE LOG

NO.	DATE	DESCRIPTION
△	5-13-2013	ADDENDUM 1
△	5/16/2013	ADDENDUM 2

**SMITH & COMPANY**  
ARCHITECTS

1500 MCGOWEN ST. SUITE 150  
HOUSTON, TEXAS 77004  
PHONE: 713-524-4202  
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SEAL:



PROJECT NAME :  
**FELIX FRAGA  
ACADEMIC CENTER  
LEVEL 3 RENOVATION  
HOUSTON COMMUNITY COLLEGE**

301 NORTH DRENNAN ST.  
HOUSTON, TX 77003



KEY MAP:

REVIEWED:

PROJECT MANAGER \_\_\_\_\_ SPONSORING DEPARTMENT \_\_\_\_\_

PROJECT MANAGER \_\_\_\_\_

CONSULTANT(S) :

DATE : APRIL 22, 2013

PROJECT NO.: N012813

SCALE :

DRAWN BY : JAW

CHECKED BY : TDS

SHEET TITLE :

**LEVEL 3 FINISH  
FLOOR PLAN**

SHEET NO. :

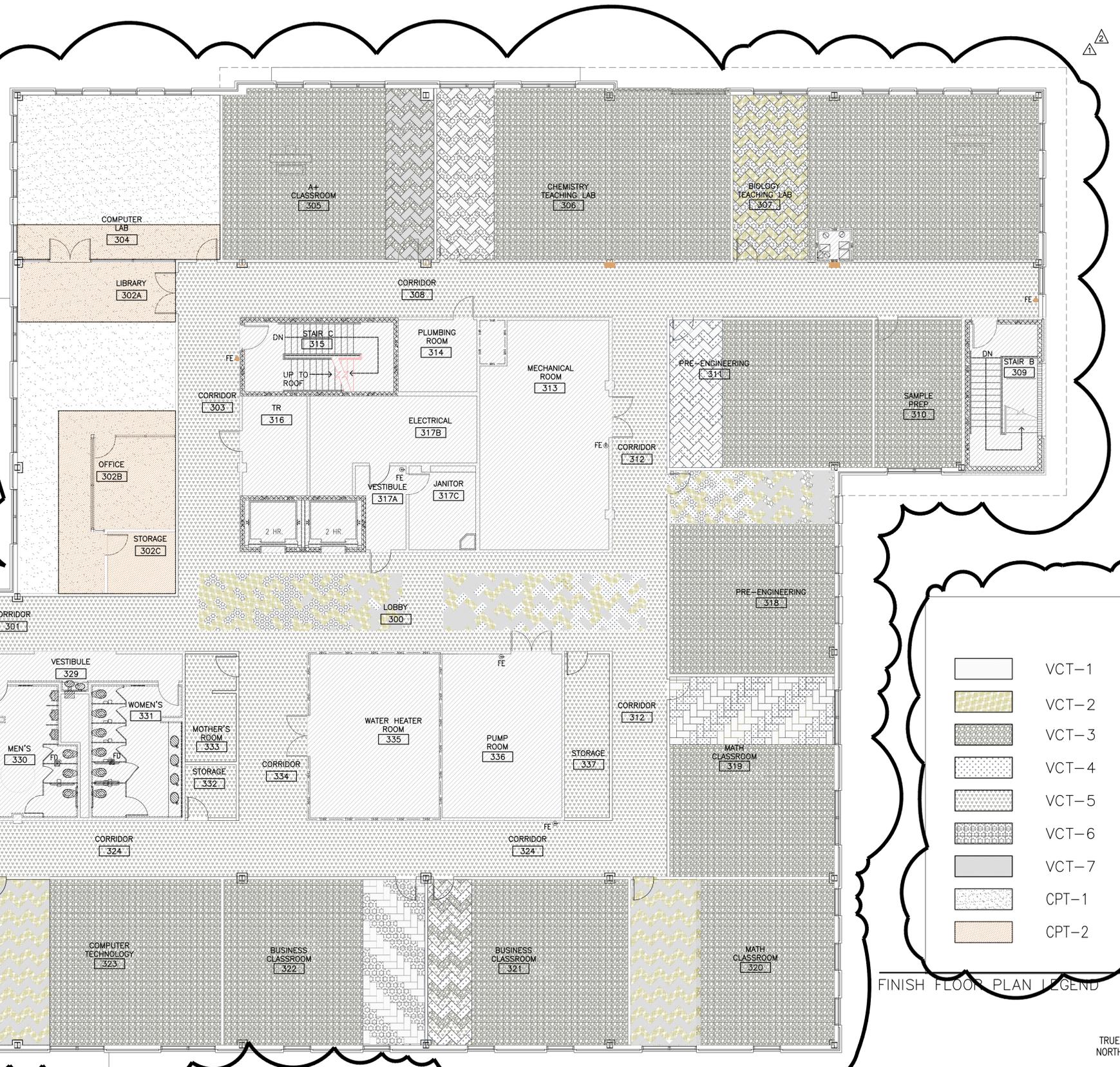
**A2.01**

- ① LOCATION OF CORNERGAARDS, CG-1
- ② REFER TO INTERIOR ELEVATION SHEETS FOR ADDITIONAL DETAILS
- ③ CONTRACTOR TO INSTALL FIELD TILE, PCT-1 IN MONOLITHIC PATTERN. USE WHOLE TILES AS SHOWING IN THE FINISH PLANS.
- ④ ALL VCT FLOOR FINISHES SHOWING AT DIAGONAL IN FINISH FLOOR PLAN ARE TO BE CUT PARALLEL TO TO THE DIAGONAL OF THE RAILING @ LOBBY OPEN AREA.
- ⑤ USE WHOLE TILES AT ALL TILE TRANSITIONS, LIMIT CUT TILES TO WALLS AND CENTER TILE PATTERNS IN ROOM.
- ⑥ ALL GROUT LINES TO BE RECTIFIED 3/8"
- ⑦ ALIGN ALL GROUT LINES WITH WALL EDGES WHERE APPLICABLE.
- ⑧ PROVIDE SMOOTH TRANSITION IN FLOORING MATERIALS. INSTALL SCHLUTER ALUMINUM TRIM AS NEEDED.

KEY NOTES NO SCALE 20

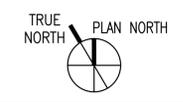
1. STANDARDS AND PROCEDURES FOR THE PREPARATION AND APPLICATION OF INTERIOR FINISHES ARE DEFINED IN THE PROJECT MANUAL. FINISH SUB-CONTRACTORS ARE REQUIRED TO READ, UNDERSTAND, AND FOLLOW ALL RELEVANT SECTIONS OF THE PROJECT MANUAL.
2. FINISH MATERIAL SPECIFICATIONS ARE LISTED IN THE FINISH LEGEND COMPONENT OF THE FINISH SCHEDULE. PERFORMANCE SPECIFICATIONS ARE INCLUDED IN THE PROJECT MANUAL. ANY CONFLICTS OR DISCREPANCIES BETWEEN THESE TWO SHOULD BE BROUGHT TO THE ARCHITECTS ATTENTION IMMEDIATELY.
3. REFER TO SHEET A3.01 FOR FINISH SCHEDULE, AND MATERIALS AND FINISH DESIGNATIONS.
4. ALL VERTICAL TRANSITIONS BETWEEN DIFFERING WALL FINISHES ARE TO BE MADE AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).
5. CERAMIC & PORCELAIN WALL TILE TO EXTEND FULL WIDTH AND FULL HEIGHT FOR ANY AND ALL SCHEDULED TILED WALLS (UNLESS NOTED OTHERWISE).
6. PROVIDE STRAIGHT PROFILE RUBBER BASE AT ALL CARPETED AREAS AND COVE BASE AT ALL RESILIENT FLOORING. REFER TO MATERIALS SCHEDULE FOR HEIGHT AND COLOR.
7. APPROPRIATE METAL OR RESILIENT TRANSITION STRIPS OR THRESHOLDS MUST BE PROVIDED AT ALL FINISH FLOORING CHANGES. DETAILS MUST BE APPROVED BY ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
8. PAINT FACE OF ALL ELECTRIC PANELS NOT LOCATED WITHIN ELECTRICAL ROOMS. MATCH WALL FINISH.
9. VCT PATTERNS ARE NOT SHOWN UNDER CASEWORK FOR CLARITY. CONTINUE PATTERNS UNDERNEATH COUNTERTOPS AND CASEWORK WHERE FLOOR IS VISIBLE.
10. CHANGES IN FLOOR FINISH MATERIALS IN ADJOINING ROOMS TO OCCUR CENTERED DIRECTLY UNDER THE LEAF OF THE DOOR IN THE CONNECTING DOORWAY.

GENERAL NOTES NO SCALE 15



	VCT-1
	VCT-2
	VCT-3
	VCT-4
	VCT-5
	VCT-6
	VCT-7
	CPT-1
	CPT-2

FINISH FLOOR PLAN LEGEND 1/8" = 1'-0" 6



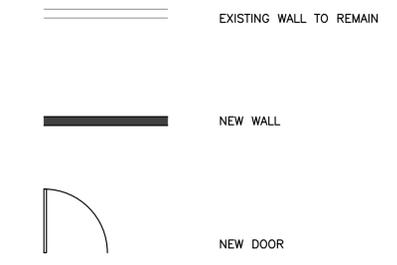
LEVEL 3 FINISH FLOOR PLAN

1/8" = 1'-0" 1

ISSUE LOG		
NO.	DATE	DESCRIPTION
△	5-13-2013	ADDENDUM 1
△	5-16-2013	ADDENDUM 2

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- REFER TO SHT. A3.02 FOR PARTITION TYPES.
- REFER TO FINISH SCHEDULE SHEET A3.03 FOR NEW FINISH REQUIREMENTS.
- REFER TO DOOR SCHEDULE SHT. A3.00 FOR NEW & EXISTING DOOR, FRAME, & HARDWARE REQUIREMENTS.
- REFER TO PLUMBING DRAWINGS FOR NEW PLUMBING FIXTURES.
- REFER TO MECHANICAL DRAWINGS FOR NEW MECH. UNITS.
- ALL ITEMS ARE EXISTING TO REMAIN U.N.O.
- SEE SHT. A3.00 FOR WINDOW & INTERIOR STOREFRONT
- SEE SHT. A0.02 FOR GENERAL PROJECT REQUIREMENTS
- REFER 13/A2.31 FOR TYP. FUME HOOD VENT ROOF PENETRATION DETAIL

LEGEND NO SCALE 10

GENERAL NOTES NO SCALE 5

SEAL:

5/16/2013

PROJECT NAME :

FELIX FRAGA  
ACADEMIC CENTER  
LEVEL 3 RENOVATION  
HOUSTON COMMUNITY COLLEGE

301 NORTH DRENNAN ST.  
HOUSTON, TX 77003

KEY MAP:

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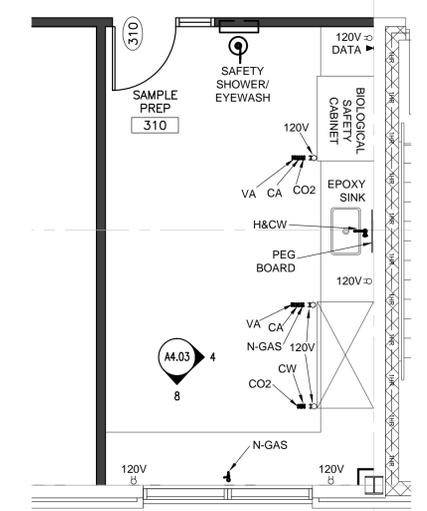
DRAWN BY : JAW

CHECKED BY : TDS

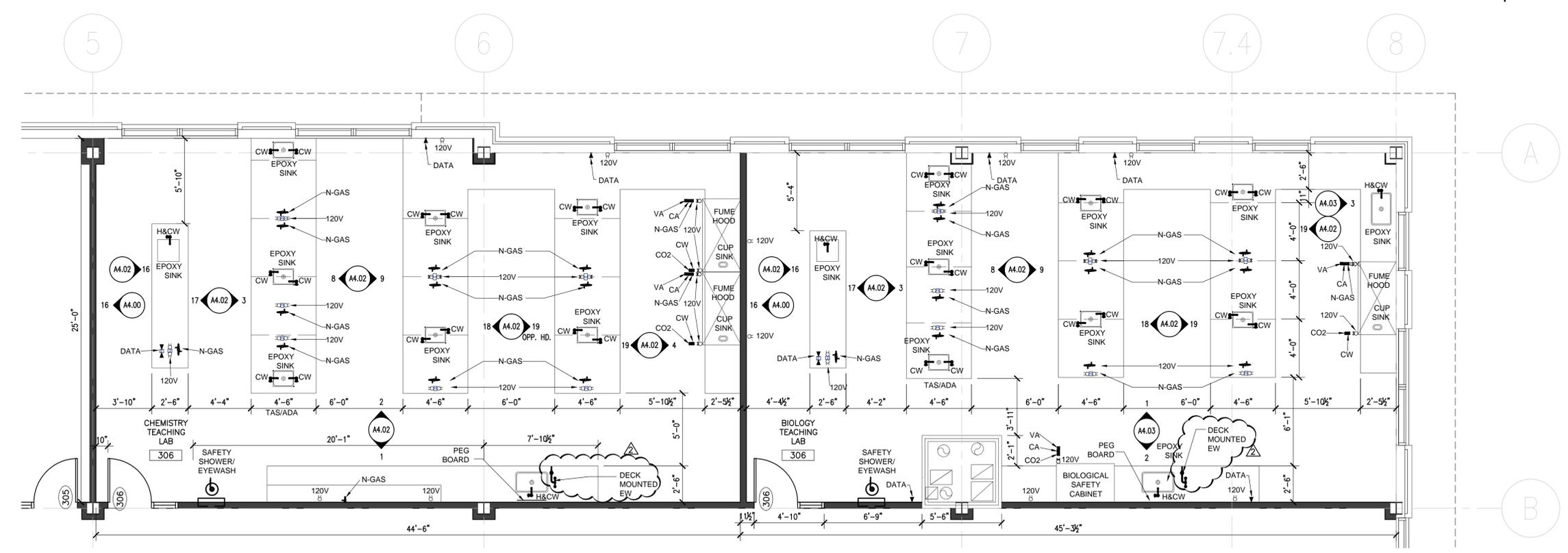
SHEET TITLE :

ENLARGED PLANS

SHEET NO. : A2.20



ENLARGED FLOOR PLAN 1/4" = 1'-0" 3



ENLARGED FLOOR PLAN 1/4" = 1'-0" 1

1. PAINT OVERHEAD AND EXPOSED STRUCTURE, ELEC. DUCTS, SPRINKLER PIPING, ETC. SEE FINISH SCHEDULE, STR-1.
2. SEE FINISH PLAN FOR FLOORING PATTERNS; FLOORING INSTALLER TO CONTACT INTERIOR DESIGNER FOR COLOR CODED FINISH PLAN, COMPLETED AND AVAILABLE UPON REQUEST.
3. SEE REFLECTED CEILING PLAN FOR ACCENT PAINT COLORS.
4. SEE ELEVATIONS FOR ADDITIONAL FINISHES, AND PATTERNS.

KEYED NOTES

NO SCALE (20)

1. ALL DOOR FRAMES ARE TO MATCH ADJACENT PAINT FINISH, REFER TO FINISH SCHEDULE FOR PAINT FINISHES (ROLLED FINISH).

GENERAL NOTES

NO SCALE (19)

RM. NO.	ROOM NAME	FLOOR	BASE	WALL				CEILING	GLG. HT.	REMARKS	
				ALL	NORTH	SOUTH	WEST				
THIRD FLOOR											
316	TR	VCT-1	RB-1	PT-1					9'-0"	SEE NOTES 2 & 4	
302A	LIBRARY	CPT-1, 2	RB-1	PT-2				ACT-1	9'-0"	SEE NOTES 2 & 4	
302B	OFFICE	CPT-2	RB-1	PT-2				ACT-1	9'-0"	SEE NOTES 2 & 4	
315	STAIR C	CONC	RB-1	PT-5/CMU					9'-0"		
302C	STORAGE	CPT-2	RB-1	T&F					9'-0"		
304	COMPUTER LAB	CPT-1, 2	RB-1	PT-2				ACT-1	9'-0"	SEE NOTES 2 & 4	
314	PLUMBING ROOM	VCT-5	RB-1	PT-1					9'-0"		
305	A+ CLASSROOM	VCT-3, 7	RB-1		PT-1	PT-1	PT-3	PT-1	ACT-1	9'-0"	SEE NOTES 2 & 4
309	STAIR B	N/A	N/A	N/A						OPEN	
306	CHEMISTRY TEACHING LAB	VCT-3,1&6	RB-1		PT-1	PT-1	PT-3	PT-1	ACT-1	9'-0"	SEE NOTES 2 & 4
313	MECHANICAL ROOM	VCT-5	RB-1	PT-1						OPEN	
307	BIOLOGY TEACHING LAB	VCT-3, 2&5	RB-1		PT-1	PT-1	PT-3	PT-1	ACT-1	9'-0"	SEE NOTES 2 & 4
336	PUMP ROOM	VCT-5	RB-1	PT-1						OPEN	
317A	VESTIBULE	VCT-5	RB-1	PT-1					ACT-1	9'-0"	
317B	ELECTRICAL	VCT-5	RB-1	PT-1						OPEN	
317C	JANITOR	VCT-5	RB-1	PT-1						OPEN	
335	WATER HEATER ROOM	VCT-5	RB-1	PT-1						OPEN	
311	PRE-ENGINEERING	VCT-3, 4&1	RB-1		PT-3	PT-1	PT-1	PT-1	ACT-1	9'-0"	SEE NOTES 2 & 4
310	SAMPLE PREP	VCT-3	RB-1		PT-3	PT-1	PT-1	PT-1	ACT-1	9'-0"	SEE NOTES 2 & 4
338	STAIR D	N/A	N/A	N/A						OPEN	
318	PRE-ENGINEERING	VCT-1-7	RB-1		PT-1	PT-1	PT-1	PT-3	ACT-1	9'-0"	SEE NOTES 2 & 4
319	MATH CLASSROOM	VCT-1/4	RB-1		MK-1	PT-1	PT-1	PT-3	ACT-1	9'-0"	SEE NOTES 2 & 4
330	MENS RESTROOM	N/A	N/A	N/A					N/A	9'-0"	
331	WOMENS RESTROOM	N/A	N/A	N/A					N/A	9'-0"	
329	RESTROOM VESTIBULE	N/A	N/A	N/A					N/A	9'-0"	
320	MATH CLASSROOM	VCT-3, 2&7	RB-1		PT-3	PT-1	PT-1	MK-1	ACT-1	9'-0"	SEE NOTES 2 & 4
321	BUSINESS CLASSROOM	VCT-3, 4&5	RB-1		PT-3	PT-1	PT-1	PT-1	ACT-1	9'-0"	SEE NOTES 2 & 4
322	BUSINESS CLASSROOM	VCT-3, 1&2	RB-1		PT-3	PT-1	PT-1	PT-1	ACT-1	9'-0"	SEE NOTES 2 & 4
323	COMPUTER TECHNOLOGY	VCT-3, 1&2	RB-1		PT-3	PT-1	PT-1	PT-1	ACT-1	9'-0"	SEE NOTES 2 & 4
326	LECTURE HALL	CPT-1 & 2	WB-1/RB-1	PT-3	PT-3	WD-1&2, PT-5	WD-1&2	PT-3	WD-3/STR-1/GYP-1	VARIES	
327	STORAGE	VCT-5	RB-1	PT-1						9'-0"	
337	STORAGE	CPT-2	RB-1	PT-1						9'-0"	
332	STORAGE	VCT-5	RB-1	PT-1						9'-0"	
333	MOTHER'S ROOM	VCT-5	RB-1	PT-1						9'-0"	
325	CORRIDOR	VCT-5	RB-1	PT-2					ACT-1	9'-0"	SEE NOTES 2 & 4
328	CORRIDOR	VCT-5	RB-1	PT-2					ACT-1	9'-0"	SEE NOTES 2 & 4
324	CORRIDOR	VCT-5	RB-1	PT-2					ACT-1	9'-0"	SEE NOTES 2 & 4
334	CORRIDOR	VCT-5	RB-1	PT-2					ACT-1	9'-0"	SEE NOTES 2 & 4
301	CORRIDOR	VCT-5	RB-1	PT-2					ACT-1	9'-0"	SEE NOTES 2 & 4
303	CORRIDOR	VCT-5	RB-1	PT-2					ACT-1	9'-0"	SEE NOTES 2 & 4
308	CORRIDOR	VCT-5	RB-1	PT-2					ACT-1	9'-0"	SEE NOTES 2 & 4
312	CORRIDOR	VCT-5	RB-1	PT-2					ACT-1	9'-0"	SEE NOTES 2 & 4
300	LOBBY	VCT-3, 5, 6&7	RB-1	PT-1					ACT-1	9'-0"	SEE NOTES 2 & 4

ROOM FINISH SCHEDULE

NO SCALE (4)

MATERIALS AND FINISHES

FLOOR FINISHES	WALL FINISHES	CEILING FINISHES	BASE FINISHES	MILLWORK
<p>VCT-1 VINYL COMPOSITION TILE LOCATION: LOBBY, MULTI-PURPOSE ROOM MFR./NAME/NO./: JOHNSONITE/AZROCK/V-234 SIZE: 12"x12"x1/8" COLOR: FINCH OF SALT REMARKS:</p> <p>VCT-2 VINYL COMPOSITION TILE LOCATION: LOBBY, MULTI-PURPOSE ROOM MFR./NAME/NO./: JOHNSONITE/AZROCK/V-2605 SIZE: 12"x12"x1/8" COLOR: BUTTERNUT REMARKS:</p> <p>VCT-3 VINYL COMPOSITION TILE LOCATION: LOBBY, MULTI-PURPOSE ROOM MFR./NAME/NO./: JOHNSONITE/AZROCK/V-222 SIZE: 12"x12"x1/8" COLOR: STONED REMARKS:</p> <p>VCT-4 VINYL COMPOSITION TILE LOCATION: LOBBY, MULTI-PURPOSE ROOM MFR./NAME/NO./: JOHNSONITE/AZROCK/V-243 SIZE: 12"x12"x1/8" COLOR: ADIRONDACK BLUE REMARKS:</p> <p>VCT-5 VINYL COMPOSITION TILE LOCATION: LOBBY, MULTI-PURPOSE ROOM MFR./NAME/NO./: JOHNSONITE/AZROCK/V-220 SIZE: 12"x12"x1/8" COLOR: CAST PEWTER REMARKS:</p> <p>VCT-6 VINYL COMPOSITION TILE LOCATION: LOBBY, MULTI-PURPOSE ROOM MFR./NAME/NO./: JOHNSONITE/AZROCK/V-229 SIZE: 12"x12"x1/8" COLOR: SHUTTLE GREY REMARKS:</p> <p>VCT-7 VINYL COMPOSITION TILE LOCATION: LOBBY, MULTI-PURPOSE ROOM MFR./NAME/NO./: JOHNSONITE/AZROCK/V-214 SIZE: 12"x12"x1/8" COLOR: ASHES REMARKS:</p> <p>CPT-1 CARPET TILE LOCATION: LECTURE HALL, LIBRARY, OFFICE, COMPUTER LAB 304 MFR./NAME/NO./: MILLIKEN/SIMPLY THAT/AMBRANCE 37 COLOR: SIMPLY INSPIRED/ AMBRANCE 37 CONTENT: SOLUTION DIED INSTALLATION: 36" X 36"</p> <p>CPT-2 CARPET TILE LOCATION: LECTURE HALL, LIBRARY, OFFICE, COMPUTER LAB 304 MFR./NAME/NO./: MILLIKEN/THEORY/P-6387 COLOR: BLU-412 CAMEL CONTENT: SOLUTION DIED INSTALLATION: 36" X 36"</p>	<p>PT-1 WALL PAINT LOCATION: GENERAL MFR./NAME/NO./: PITTSBURGH PAINTS/ VOICE OF COLOR TYPE: LATEX ENAMEL COLOR: 416-1, MOUNTAIN GRAY FINISH: SATIN REMARKS:</p> <p>PT-2 WALL PAINT LOCATION: CORRIDORS, LIBRARY &amp; OFFICE MFR./NAME/NO./: PITTSBURGH PAINTS/ VOICE OF COLOR TYPE: LATEX ENAMEL COLOR: 416-3, GRAY BEIGE FINISH: SATIN REMARKS:</p> <p>PT-3 WALL PAINT LOCATION: LECTURE HALL, CLASSROOM ACCENT WALLS MFR./NAME/NO./: PITTSBURGH PAINTS/ VOICE OF COLOR TYPE: LATEX ENAMEL COLOR: 416-4, STONINGTON FINISH: SATIN REMARKS:</p> <p>PT-4 WALL PAINT LOCATION: LECTURE HALL ACCENT PAINT MFR./NAME/NO./: PITTSBURGH PAINTS/ VOICE OF COLOR TYPE: LATEX ENAMEL COLOR: 416-5, OYSTER SHELL FINISH: SATIN REMARKS:</p> <p>PT-5 WALL PAINT LOCATION: LECTURE HALL ACCENT MFR./NAME/NO./: PITTSBURGH PAINTS/ VOICE OF COLOR TYPE: LATEX ENAMEL COLOR: 454-5, BARTONE FINISH: SATIN REMARKS:</p> <p>MK-1 MARKER BOARD LOCATION: MATH CLASSROOMS 319 &amp; 320 MFR./NAME/NO./: KOROSCAL/ WALLTALKERS/ TYPE: FLOOR TO CEILING SIZE: COLOR: REMARKS: WHITE</p>	<p>ACT-1 ACOUSTICAL CEILING TILE LOCATION: CORRIDORS 101A, 101B, 103, 105 MFR./NAME/NO./: USG/ OLYMPIA MICRO CLIMA PLUS PANELS/4231 GRID: 2' x 2' x 5/8" GRID COLOR: WHITE FINISH: REMARKS:</p> <p>WB-3 WOOD CEILING LOCATION: LECTURE HALL MFR./NAME/NO./: ARMSTRONG/ CERTIFIED WOODWORKS REGULAR/ 6487 1/4" HLG/ WITH ACOUSTICAL FLEECE COLOR: NATURAL VARIATIONS LIGHT CHERRY TRIM/ACCESSORIES: 4" WOODWORKS TRIM W/ ALUM. SUB./ 5659 1/4" HLG SUSPENSION: 15/16" VECTOR PRELUDE REMARKS: INCLUDE HANGER WIRE FOR SUSPENSION</p> <p>CPT-2 PAINTED GYPSUM LOCATION: LECTURE HALL MFR./NAME/NO./: COLOR: PT-4 FINISH: SATIN REMARKS:</p> <p>STR-1 PAINTED STRUCTURE LOCATION: LECTURE HALL MFR./NAME/NO./: PITTSBURGH PAINT/VOICE OF COLOR COLOR: 518-7, BLACK MAGIC FINISH: SATIN REMARKS:</p>	<p>RB-1 RUBBER BASE LOCATION: GENERAL MFR./NAME/NO./: ROPPE HEIGHT: 4" COLOR: 110, BROWN REMARKS:</p> <p>WB-1 WOOD BASE LOCATION: LECTURE HALL MFR./NAME/NO./: ARMSTRONG/ WOODWORKS WALLS/ 5655 NDC HEIGHT: 4" COLOR: NATURAL VARIATIONS/ DARK CHERRY (HDC) REMARKS:</p>	<p>WD-1 WOOD WALL LOCATION: LECTURE HALL MFR./NAME/NO./: ARMSTRONG/ WOODWORKS WALLS/ 5816 1/4" X HDC COLOR: NATURAL VARIATIONS DARK CHERRY TRIM/ACCESSORIES: 4" WOODWORKS BASE MOLDING/ 5655 NDC INSTALLATION: Z CLIP INSTALLATION W/ 1/4" REVEAL REMARKS: SEE FINISH PLANS FOR WALLS RECEIVING FINISH REFER TO ELEVATIONS FOR PATTERN, A202</p> <p>WD-2 WOOD WALL LOCATION: LECTURE HALL MFR./NAME/NO./: ARMSTRONG/ WOODWORKS WALLS/ 5816 1/4" X HDC/ WITH ACOUSTICAL FLEECE COLOR: NATURAL VARIATIONS DARK CHERRY TRIM/ACCESSORIES: 4" WOODWORKS BASE MOLDING/ 5655 NDC INSTALLATION: Z CLIP INSTALLATION W/ 1/4" REVEAL REMARKS: SEE FINISH PLANS FOR WALLS RECEIVING FINISH REFER TO ELEVATIONS FOR PATTERN, A202</p>

MATERIAL AND FINISH SCHEDULE

NO SCALE (1)

ISSUE LOG

NO.	DATE	DESCRIPTION
1	5/13/2013	ADDENDUM 1
2	5/16/2013	ADDENDUM 2

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SEAL:



PROJECT NAME :

FELIX FRAGA  
ACADEMIC CENTER  
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301 NORTH DRENNAN ST.  
HOUSTON, TX 77003



KEY MAP:

REVIEWED:

PROJECT MANAGER \_\_\_\_\_ SPONSORING DEPARTMENT \_\_\_\_\_

PROJECT MANAGER \_\_\_\_\_

CONSULTANT(S) :

DATE : APRIL 22, 2013  
PROJECT NO.: N012813  
SCALE :  
DRAWN BY : JAW  
CHECKED BY : TDS

SHEET TITLE :

MATERIAL AND FINISH SCHEDULE

SHEET NO. :

A3.03

NO.	DATE	DESCRIPTION
△	5-13-2013	ADDENDUM 1
△	5-16-2013	ADDENDUM 2

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5/16/2013

PROJECT NAME :  
**FELIX FRAGA  
ACADEMIC CENTER  
LEVEL 3 RENOVATION  
HOUSTON COMMUNITY COLLEGE**

301 NORTH DRENNAN ST.  
HOUSTON, TX 77003



KEY MAP:

REVIEWED:

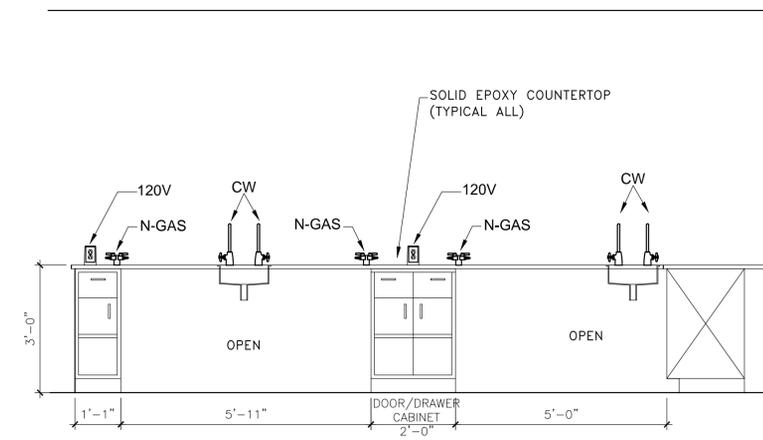
PROJECT MANAGER \_\_\_\_\_ SPONSORING DEPARTMENT \_\_\_\_\_  
PROJECT MANAGER \_\_\_\_\_

CONSULTANT(S) :

DATE : APRIL 22, 2013  
PROJECT NO. : N012813  
SCALE : VARIES  
DRAWN BY : JAW  
CHECKED BY : TDS

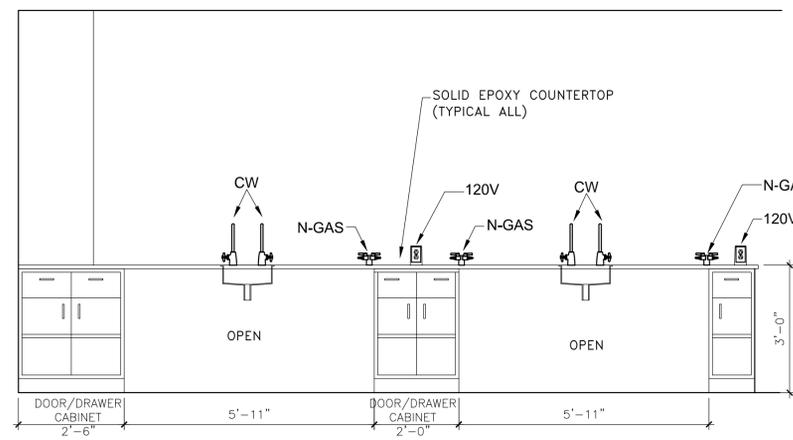
SHEET TITLE :  
**INTERIOR LAB  
CASEWORK ELEVATIONS**

SHEET NO. : **A4.02**



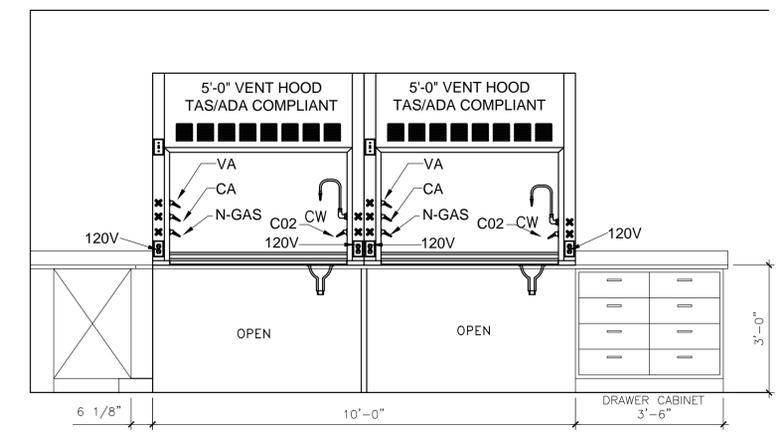
LAB CASEWORK ELEVATION

1/4" = 1'-0" 19



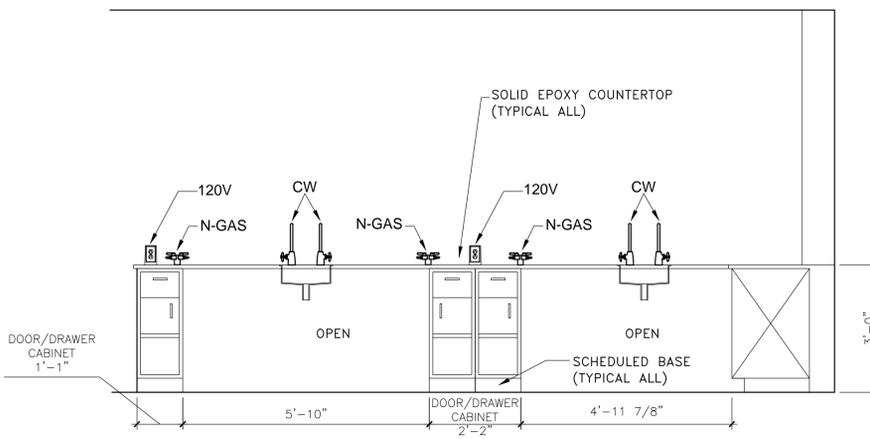
LAB CASEWORK ELEVATION

1/4" = 1'-0" 9



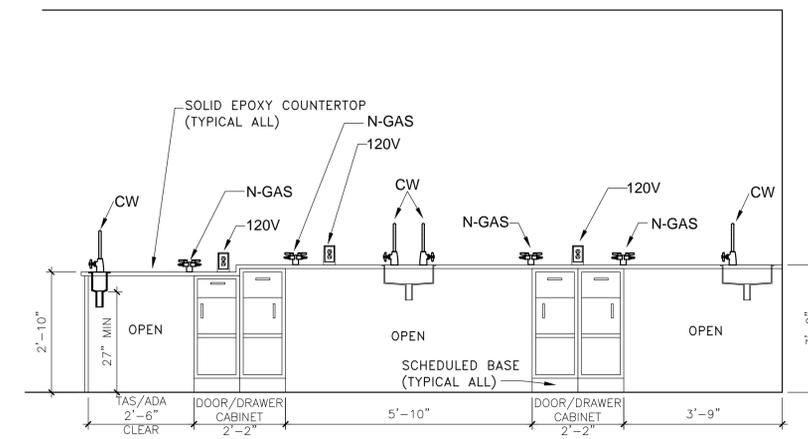
LAB CASEWORK ELEVATION

1/4" = 1'-0" 4



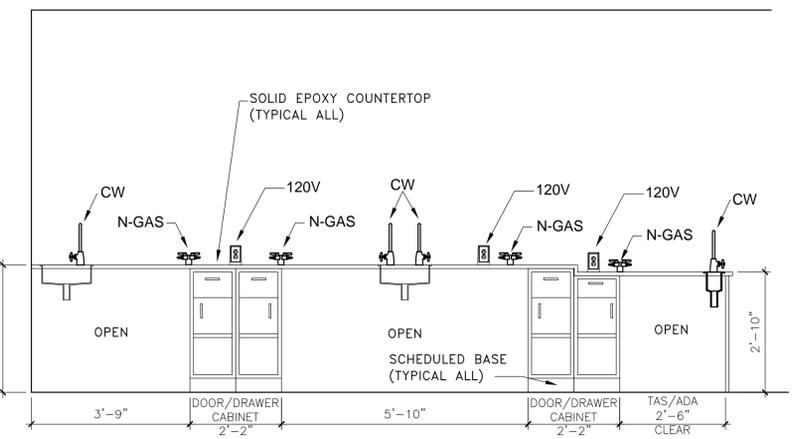
LAB CASEWORK ELEVATION

1/4" = 1'-0" 18



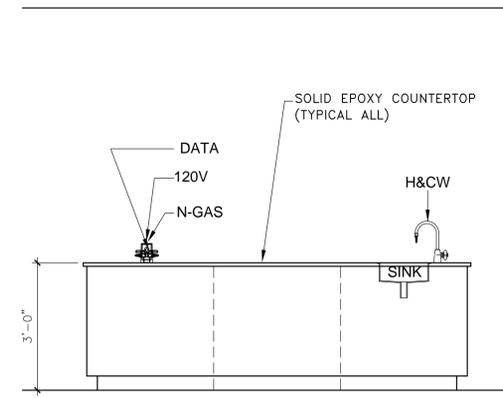
LAB CASEWORK ELEVATION

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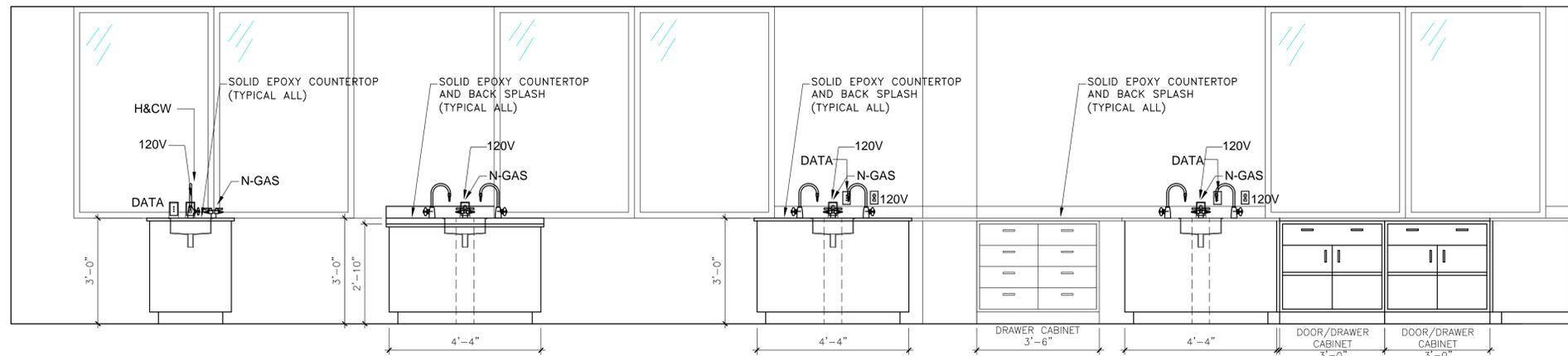
LAB CASEWORK ELEVATION

1/4" = 1'-0" 3



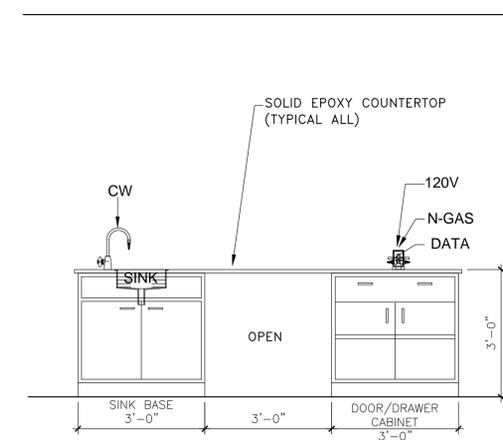
LAB CASEWORK ELEVATION

1/4" = 1'-0" 17



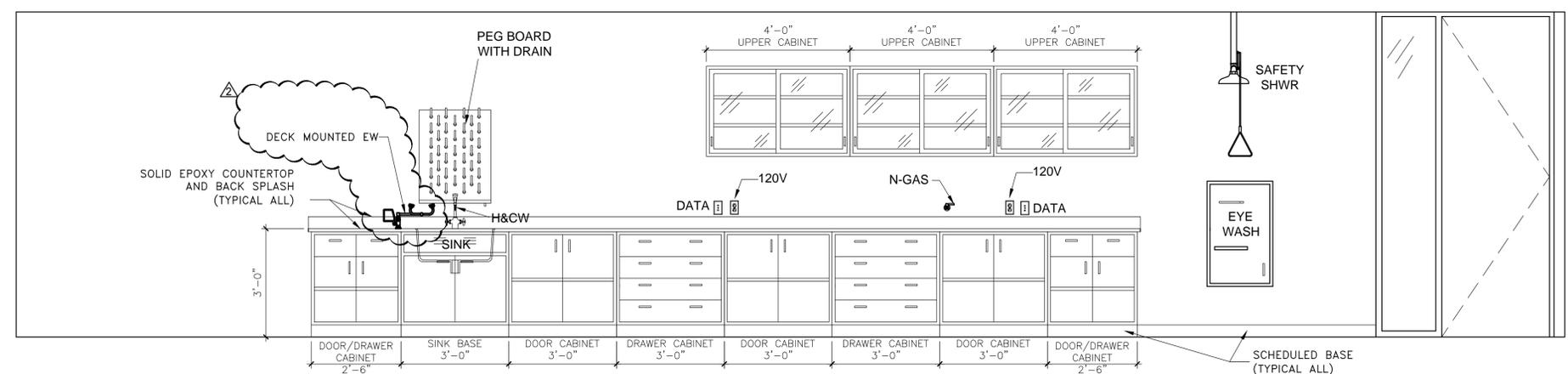
LAB CASEWORK ELEVATION

1/4" = 1'-0" 2



LAB CASEWORK ELEVATION

1/4" = 1'-0" 16



LAB CASEWORK ELEVATION

1/4" = 1'-0" 1

ISSUE LOG

NO.	DATE	DESCRIPTION
△	5-13-2013	ADDENDUM 1
△	5-16-2013	ADDENDUM 2

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SEAL:



PROJECT NAME :

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HOUSTON COMMUNITY COLLEGE

301 NORTH DRENNAN ST.  
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KEY MAP:

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PROJECT MANAGER \_\_\_\_\_ SPONSORING DEPARTMENT \_\_\_\_\_

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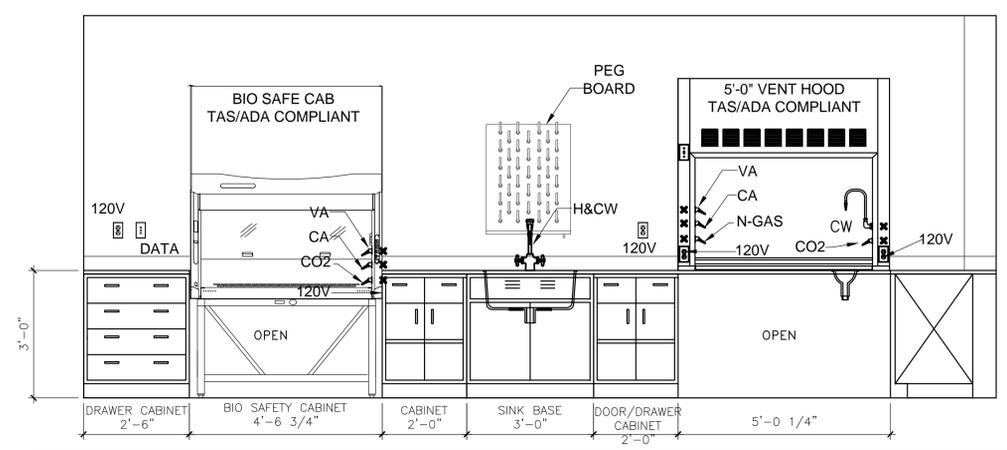
CONSULTANT(S) :

DATE : APRIL 22, 2013  
PROJECT NO. : N012813  
SCALE : VARIES  
DRAWN BY : JAW  
CHECKED BY : TDS

SHEET TITLE :

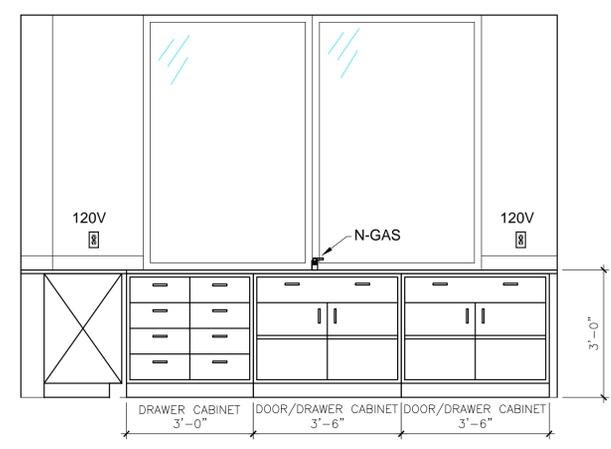
INTERIOR LAB  
CASEWORK ELEVATIONS

SHEET NO. : **A4.03**



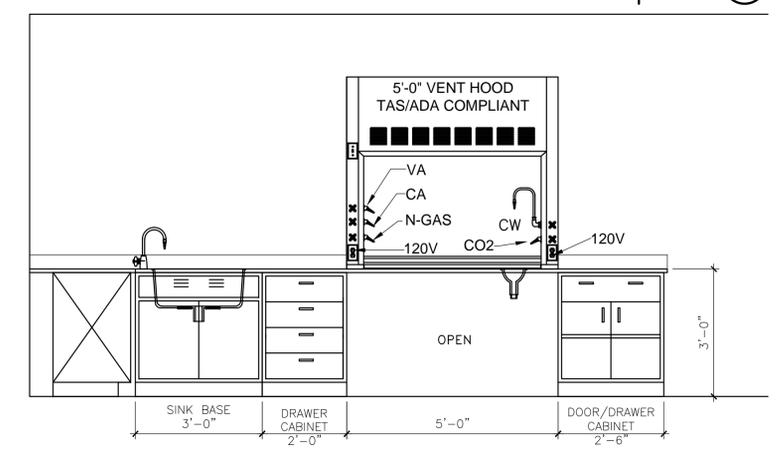
LAB CASEWORK ELEVATION

1/4" = 1'-0" 4



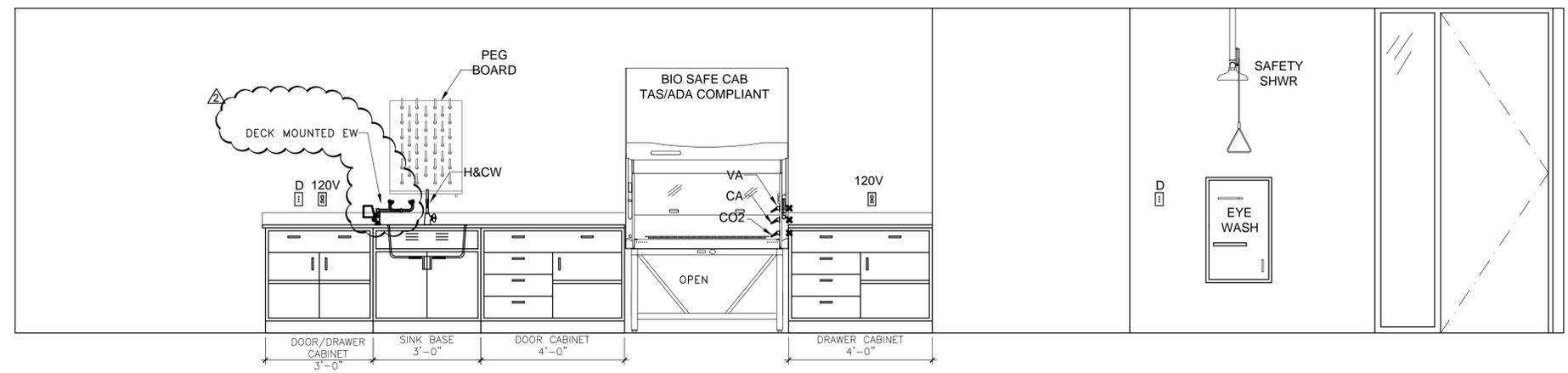
LAB CASEWORK ELEVATION

1/4" = 1'-0" 8



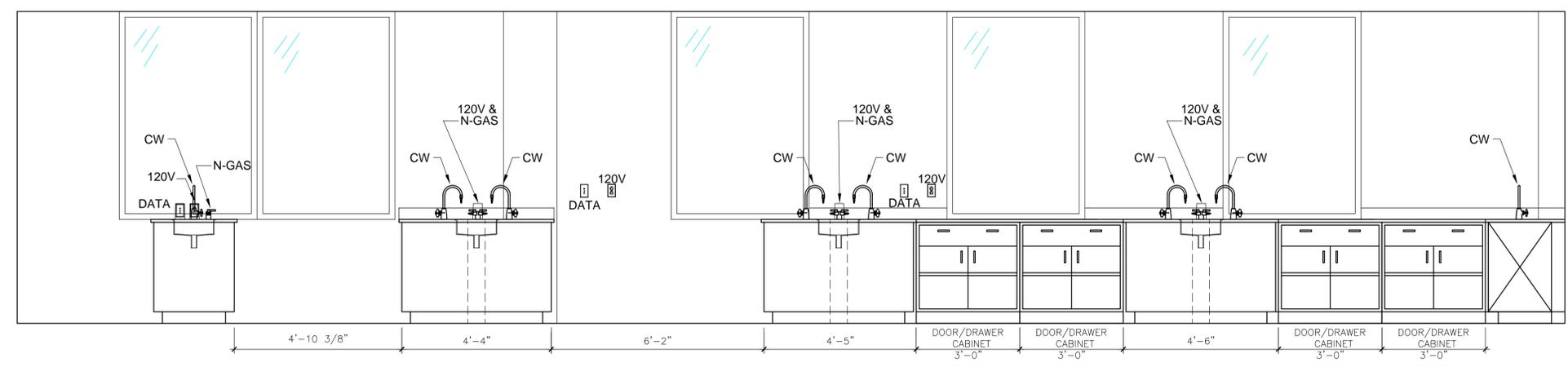
LAB CASEWORK ELEVATION

1/4" = 1'-0" 3



LAB CASEWORK ELEVATION

1/4" = 1'-0" 2



LAB CASEWORK ELEVATION

1/4" = 1'-0" 1

**ADDENDUM NO. 2**

DATE: May 16<sup>th</sup> 2013

PROJECT: Felix Fraga Academic Center Level 3  
Renovation

LOCATION: 301 N. Drennan St. Houston, Texas 77003  
PROJECT NO.

DISTRIBUTION:  
DELIVERED VIA:

NO. PAGES: 3

PREPARED BY: Smith & Company Architects, Inc



05/16/2013

This addendum forms a part of the Specifications for the Felix Fraga Academic Center Level 3 Renovation for Houston Community College, documents posted on April 22, 2013 for the subject project and modifies/add to them as noted below.

**CHANGES TO PROJECT MANUAL**

**SPECIFICATIONS**

1. Section 102113 TOILET COMPARTMENTS, dated April 22, 2013 replace the section with the attached section, dated May 16, 2013.
2. Section TABLE OF CONTENTS dated April 22, 2013, Add Section 097714-WOOD VENEER WALL PANELS, Pages 5, Dated May 16, 2013.
3. Section TABLE OF CONTENTS dated April 22, 2013, Add Section 095126 WOOD PANEL CEILINGS, Pages 6, Dated May 16, 2013.
4. Add attached Section 095126 WOOD PANEL CEILINGS, Dated May 16, 2013.
5. Add attached Section 097714-WOOD VENEER WALL PANELS, Dated May 16, 2013.

**CHANGES TO DRAWINGS**

1. Replace Sheet A000-Cover & Sheet Index of Drawings, Dated April 22, 2013, Replace with attached Sheet A000- Cover & Sheet Index of Drawings, Dated May 16<sup>th</sup>, 2013.

2. Replace Sheet A201-Level 3 Finish Floor Plan, Dated May 13, 2013, Replace with attached Sheet A201-Level 3 Finish Floor Plan, Dated May 16<sup>th</sup>, 2013.
3. Replace Sheet A220 -Enlarged Plans and Lab Legend, Dated May 13, 2013, Replace with attached Sheet A220 -Enlarged Plans and Lab Legend, Dated May 16<sup>th</sup>, 2013.
4. Replace Sheet A303 -Finish and Material Schedule, Dated May 13, 2013, Replace with attached Sheet A303 -Finish and Material Schedule, Dated May 16<sup>th</sup>, 2013.
5. Replace Sheet A402-Interior Lab Casework Elevations, Dated May 13, 2013, Replace with attached Sheet A402-Interior Lab Casework Elevations, Dated May 16<sup>th</sup>, 2013.
6. Sheet A2.20-Enlarged plans- add and install the following Chemical Storage cabinets, Qty 1 Cabinet, in Chemistry Teaching Lab 306. (Location in room to be determined).
  - Mott Manufacturing (or approved equal)
  - Vented Solvent Storage Unit – Model No. 6453160 -36” X 54”
  - With self closing / latching doors
  - With vent ports on cabinet side(s)
7. Sheet A2.20-Enlarged plans- add and install the following Chemical Storage cabinets, Qty 1 Cabinet, in Biology Teaching Lab 307. (Location in room to be determined).
  - Mott Manufacturing (or approved equal)
  - Vented Solvent Storage Unit – Model No. 6453160 -36” X 54”
  - With self closing / latching doors
  - With vent ports on cabinet side(s)
8. Sheet A2.20-Enlarged plans- add and install the following Chemical Storage cabinets, Qty 1 Cabinet, in Sample Prep 310 –. (Location in room to be determined).
  - Mott Manufacturing (or approved equal)
  - Vented Solvent Storage Unit – Model No. 6453160 -36” X 54”
  - With self closing / latching doors
  - With vent ports on cabinet side(s)
9. Replace Sheet P1-01 - Schedule, Notes, and Legend, Dated April 22, 2013, Replace with attached Sheet P1-01 - Schedule, Notes, and Legend, Dated May 16<sup>th</sup>, 2013.
10. Replace Sheet P2-01 - Floor Plan - Sanitary and Vent Piping, Dated April 22, 2013, Replace with attached Sheet P2-01 - Floor Plan - Sanitary and Vent Piping, Dated May 16<sup>th</sup>, 2013.
11. Replace Sheet P3-01 - Floor Plan - Domestic and Gas Piping, Dated April 22, 2013, Replace with attached Sheet P3-01 - Floor Plan - Domestic and Gas Piping, Dated May 16<sup>th</sup>, 2013.
12. Add attached Sheet P4-01-Riser Diagrams, dated May 16<sup>th</sup>, 2013.

13. Replace Sheet P5-01 - Details, Dated April 22, 2013, Replace with attached Sheet P5-01-Details, Dated May 16<sup>th</sup>, 2013.

**END OF ADDENDUM NO. 2**

PIPING MATERIALS

- ACID WASTE AND VENT PIPING: BELOW GRADE- SCHEDULE 40 ASTM D4010 ACID RESISTANT POLYPROPYLENE PIPE AND FITTINGS WITH FULL SOCKET FUSION WELD JOINTS. ORION OR APPROVED EQUAL GSR FUSUAL, ENFIELD AND ZURN.
- ACID WASTE AND VENT PIPING: ABOVE GRADE (EXPOSED OR IN RETURN AIR PLenums)- SCHEDULE E 40, ASTM D3322. E84, ACID AND FIRE RESISTANT PROF. POLYVINYLIDENE FLUORIDE PIPE AND FITTINGS WITH FULL SOCKET FUSION WELD JOINTS. ORION OR APPROVED EQUAL GEORGE FISCHER, ENFIELD AND ZURN, OR PIPING MAY BE SCHOTT SCIENTIFIC/MIKMAX UL CLASSIFIED CHEMICALLY RESISTANT BOROSILICATE GLASS.
- ACID WASTE AND VENT PIPING: ABOVE GRADE (CONCEALED AND NOT IN RETURN AIR PLenums)- SCHEDULE E 40, ASTM D3322. E84, ACID AND FIRE RESISTANT PROF. POLYVINYLIDENE FLUORIDE PIPE AND FITTINGS WITH FULL SOCKET FUSION WELD JOINTS. ORION OR APPROVED EQUAL GEORGE FISCHER, ENFIELD AND ZURN, OR PIPING MAY BE SCHOTT SCIENTIFIC/MIKMAX UL CLASSIFIED CHEMICALLY RESISTANT BOROSILICATE GLASS.
- DOMESTIC WATER: TYPE "L" COPPER TUBING WITH WROUGHT COPPER FITTINGS AND 99.5 (TITANIUM) SOLDER JOINTS.
- NATURAL GAS: SCHEDULE 40 BLACK STEEL WITH CLASS 160 BLACK MALLEABLE IRON WELDED FITTINGS. ROOF MOUNTED PIPING SHALL BE PAINTED WITH GALVANIC PAINT. NOTE: SCREWED JOINTS WILL NOT BE PERMITTED. A. ALL WELDING FITTINGS SHALL BE FACTORY-MADE AND SHALL BE FULL LINE SIZE FOR EACH TEE, BRANCH, ELBOW ETC., WITH REDUCERS AFTER FITTINGS, IF REQUIRED.
- NATURAL GAS BRING SYSTEMS: 1. FITTINGS: A. ANSIS/ASME B16.9 BUTT WELDED WROUGHT STEEL. B. ANSIS/ASME B16.5 FLANGED FITTINGS, CLASS 125 OR 160. C. ANSIS/ASME B16.1, B16.5 FLANGED FITTINGS, CLASS 125 OR 160. 2. JOINT CONSTRUCTION: A. NPS 2 AND SMALLER: FORGED SOCKET WELDED STEEL. B. NPS 2 AND SMALLER: FORGED SOCKET WELDED STEEL. C. GAS PIPING INSTALLED WITHIN BUILDINGS AND ENCLOSURES SHALL BE ALL WELDED CONSTRUCTION. THE WELDED CONNECTIONS PERMITTED ONLY FOR SERVICE AND FINAL EQUIPMENT CONNECTIONS. 3. FITTINGS: A. ANSIS/ASME B16.9 BUTT WELDED WROUGHT STEEL. B. ANSIS/ASME B16.5 FLANGED FITTINGS, CLASS 125 OR 160. C. ANSIS/ASME B16.1, B16.5 FLANGED FITTINGS, CLASS 125 OR 160. 4. VALVES: BALL OR PLUG TYPE. PRESSURE CLASS 150 MINIMUM. A WORKING PRESSURE LESS THAN 10 PSIG. CSA CERTIFIED. B. WORKING PRESSURE LESS THAN 10 PSIG. CSA CERTIFIED. C5A, C5A1, C5A2, C5A3, C5A4, C5A5, C5A6, C5A7, C5A8, C5A9, C5A10, C5A11, C5A12, C5A13, C5A14, C5A15, C5A16, C5A17, C5A18, C5A19, C5A20, C5A21, C5A22, C5A23, C5A24, C5A25, C5A26, C5A27, C5A28, C5A29, C5A30, C5A31, C5A32, C5A33, C5A34, C5A35, C5A36, C5A37, C5A38, C5A39, C5A40, C5A41, C5A42, C5A43, C5A44, C5A45, C5A46, C5A47, C5A48, C5A49, C5A50, C5A51, C5A52, C5A53, C5A54, C5A55, C5A56, C5A57, C5A58, C5A59, C5A60, C5A61, C5A62, C5A63, C5A64, C5A65, C5A66, C5A67, C5A68, C5A69, C5A70, C5A71, C5A72, C5A73, C5A74, C5A75, C5A76, C5A77, C5A78, C5A79, C5A80, C5A81, C5A82, C5A83, C5A84, C5A85, C5A86, C5A87, C5A88, C5A89, C5A90, C5A91, C5A92, C5A93, C5A94, C5A95, C5A96, C5A97, C5A98, C5A99, C5A100.
- COP2, VACUUM, AND COMPRESSED AIR: PROVIDE SOFT ANNEALED SEAMLESS TUBING COPPER TO ASTM B-75 CLEANED AND CAPPED BY THE MANUFACTURER. CONFORMING TO ASTM B88 WITH SWAGELOK FITTING JOINTS FOR INSTALLATION WITHIN LAB AREA. FITTINGS SHALL BE SWAGELOK FITTINGS AT VALVE CONNECTIONS. BRIMS WALL THICKNESS SHALL BE SUITABLE FOR THE SWAGELOK FITTINGS AND SHALL NOT BE LESS THAN THE FOLLOWING WALL THICKNESS.
- FIRE PROTECTION SYSTEM: SCHEDULE 40 BLACK STEEL PIPE WITH CLASS 160 BLACK MALLEABLE IRON SCREWED FITTINGS. PIPING 2 1/2" AND LARGER SHALL BE JOINED WITH WCTALIC FITTINGS UTILIZING ROLL GROOVES. WCTALIC REDUCING COUPLERS AND FIT OR PRESS FIT SYSTEMS AND STRAP TYPE MECHANICAL TEES SHALL NOT BE USED.

GENERAL NOTES

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OFFSETS. INSTALL PIPING AS CLOSE AS POSSIBLE TO LOCATIONS SHOWN. WHERE INTERFERENCES WITH COMPONENTS OF OTHER TRADES WORK IS UNAVOIDABLE, SHOW LOCATIONS OF OTHER BUILDING ELEMENTS (PIPEWORK, FITTINGS AND LOCATIONS THAT INSTALLATION. NO ADDITIONAL COST SHALL BE GRANTED FOR THESE CHANGES.
- BEFORE BEGINNING EXCAVATIONS OR DEMOLITION OF ANY NATURE WHATSOEVER, CONTRACTOR SHALL LOCATE ALL SERVICES AND UTILITIES OCCURRING WITHIN THE BOUNDS OF THE PROJECT. THE CONTRACTOR SHALL THEN DAMAGED WITH A RESULTANT LOSS OF SERVICE. VERIFY THE SOURCE AND SERVICE OF EACH AND EVERY LINE ENCOUNTERED AND RECORD SERVICE, SIZE AND LOCATION ON RECORD DRAWINGS.
- SHALL-UNPLUMBING PIPING USING DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS. LOCATION OF ALL PIPING ROLL-UP INSTALLATION OF FITTURES WITHOUT THE NEED TO FUR-OUT WALLS.
- PROVIDE CLEANOUTS IN EXCESS OF THOSE SHOWN WHICH ARE REQUIRED BY THE PLUMBING CODE.
- INDIVIDUAL FIXTURE SUPPLY AND DRAIN SERVICES ARE NOT SHOWN DUE TO DRAINING SPACE LIMITATIONS. THIS CONNECTIONS SHALL PROVIDE ALL SERVICES FOR A COMPLETE RISE INSTALLATION.
- FURNISH AND INSTALL ALL NECESSARY VALVES, TEARS, GAUGES, STRAINERS, UNIONS, ETC. FOR EACH PIECE OF EQUIPMENT HAVING PLUMBING CONNECTIONS TO FACILITATE PROPER FUNCTIONING AND SERVICING.
- SEAL ALL PENETRATIONS THROUGH RATED WALLS, FLOORS AND CEILINGS WITH A UL LISTED ASSEMBLY TO PROVIDE A RATING EQUAL TO OR GREATER THAN THE RATING OF THE WALL, FLOOR OR CEILING.
- EACH CONTRACTOR SHALL VISIT THE SITE AND ASCERTAIN FOR HIMSELF THE CONDITIONS TO BE MET THERE IN IMPLEMENTING HIS WORK AND MAKE DUE PROVISIONS FOR THE SAME. IT IS ASSUMED THAT THE CONTRACTOR HAS VISITED THE PREMISES AND THAT HIS COST ESTIMATE COVERS ALL NECESSARY LABOR AND MATERIALS TO PROPERLY ACCOMPLISH HIS WORK. FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH THIS OBLIGATION SHALL BE AT HIS OWN RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND JUSTIFICATION FOR OMISSIONS OR FIELD WORK OR FOR THE FIELD VERIFY EXISTING AND FUTURE GRAVES WITHIN AREAS WHERE WORK IS BEING DONE.
- VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO INSTALLATION OF FLOOR DRAINS. RELOCATION DUE TO MISPLACEMENT SHALL BE AT CONTRACTORS EXPENSE.
- INSULATE PIPING AS FOLLOWS: DOMESTIC COLD WATER PIPING: INSULATE AND VAPOR SEAL ALL COLD AND SOFTENED WATER PIPE WITH GLASS FIBER PIPE INSULATION. (EXCEPTION - ALL PIPING EXPOSED TO THE EXTERIOR SHALL BE PROVIDED WITH ALUMINUM). DOMESTIC HOT WATER PIPING: INSULATE ALL HOT WATER PIPE WITH GLASS FIBER PIPE INSULATION WITH FACTORY-APPLIED WHITE JACKET DRAPES. INSULATE AND VAPOR SEAL ALL ABOVEGROUND P-TUBES AND HORIZONTAL DRAIN PIPING RECEIVING CONDENSATE OR ICE MAKER DRAINAGE WITH 1/2" GLASS FIBER INSULATION. INSULATE AND VAPOR SEAL ROOF DRAIN AND OVERFLOW ROOF DRAIN SUPP. PIPING AND FITTINGS FROM DRAIN TO VERTICAL LEADER WITH 1/2" GLASS FIBER INSULATION. A.D.A. ACCESSIBLE LAVATORIES AND SINKS: INSULATE ALL EXPOSED DRAIN PIPING AND WATER SUPPLY PIPING BENEATH A.D.A. COMPLIANT LAVATORIES & SINKS WITH FULLY MOLDED CLOSED CELL VINYL INSULATION KIT AS MANUFACTURED BY TRIERRO, BROCCAR OR HCGUIRE.
- SUPPORT UNBURIED PIPE AS FOLLOWS: HORIZONTAL PIPING: HIBISS, CAST IRON SOIL PIPING SHALL BE SUPPORTED AT LEAST AT EVERY OTHER JOINT EXCEPT THAT WHEN THE DEVELOPED LENGTH BETWEEN SUPPORTS EXCEEDS FOUR FEET, THEY SHALL BE PROVIDED AT EACH JOINT. SUPPORTS SHALL ALSO BE PROVIDED AT EACH HORIZONTAL BRANCH CONNECTION. SUPPORTS SHALL BE PLACED IMMEDIATELY ADJACENT TO THE COUPLING. SUSPENDED LINES SHALL BE BRACED TO PREVENT HORIZONTAL MOVEMENT. COPPER TUBING SHALL BE SUPPORTED AT NOT MORE THAN SIX FOOT INTERVALS FOR PIPING 1/4" AND SMALLER AND NINE FOOT INTERVALS FOR PIPING 3/4" AND LARGER IN DIAMETER. HANGERS FOR NON-INSULATED COPPER PIPING SHALL HAVE A COPPER FINISH. IN POTENTIALLY DAMP LOCATIONS, NON-INSULATED COPPER PIPING HANGERS OR SUPPORTS SHALL BE PLASTIC-COATED. STEEL PIPING SHALL BE SUPPORTED AT INTERVALS OF NO GREATER THAN 6 FEET FOR 1/2" PIPING, 8 FEET FOR 3/4", 8 FT PIPING AND 10 FEET FOR 1-1/4" AND LARGER PIPING. VERTICAL PIPING: PROVIDE RISER CLAMP AT BASE AND AT EACH FLOOR LEVEL.
- MARKING AND IDENTIFICATION: IDENTIFY EACH PIPE WITH LABELING AT THE FOLLOWING LOCATIONS: -AT EACH BRANCH TAKE-OFF FROM A MAIN -EVERY 20' OF STRAIGHT RUN OF PIPE -AT EQUIPMENT CONNECTIONS IF MORE THAN 10' FROM A BRANCH TAKE-OFF DOMESTIC HOT WATER: INDICATE DELIVERED WATER TEMPERATURE ON DOMESTIC HOT WATER SUPPLY AND RETURN LINES. INDICATE FLOW DIRECTION WITH ARROWS ON DOMESTIC HOT WATER SUPPLY AND RETURN LINES. MEDIUM PRESSURE GAS PIPING: MEDIUM PRESSURE GAS PIPING (1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 3", 4", 6", 8", 10", 12", 16", 20", 24", 30", 36", 42", 48", 60", 72", 84", 96", 108", 120", 144", 168", 192", 216", 240", 270", 300", 324", 360", 408", 456", 504", 576", 648", 720", 804", 888", 972", 1080", 1188", 1308", 1440", 1584", 1728", 1896", 2160", 2376", 2640, 2916, 3240, 3564, 3960, 4320, 4716, 5160, 5616, 6096, 6624, 7200, 7812, 8400, 9024, 9696, 10416, 11184, 12024, 12936, 13944, 15048, 16248, 17544, 18948, 20448, 22056, 23784, 25632, 27600, 29712, 31968, 34368, 36912, 39600, 42432, 45456, 48672, 52080, 55704, 59544, 63600, 67872, 72360, 77184, 82256, 87584, 93168, 99000, 105144, 111504, 118184, 125196, 132544, 140232, 148260, 156624, 165324, 174360, 183732, 193440, 203472, 213840, 224544, 235536, 246852, 258480, 270432, 282704, 295296, 308208, 321540, 335292, 349452, 364020, 378996, 394380, 410172, 426372, 442980, 460004, 477444, 495804, 515084, 535296, 556440, 578532, 601572, 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ISSUE LOG

NO.	DATE	DESCRIPTION
Δ	5/15/2013	ADDENDA #2

**SMITH & COMPANY**  
ARCHITECTS

1500 MCGOVEN ST., SUITE 150  
HOUSTON, TEXAS 77004  
PHONE: 713-524-4202  
FAX: 713-524-4071  
www.sc-arch.com

SEAL:



PROJECT NAME:

FELIX FRAGA  
ACADEMIC CENTER  
LEVEL 3 RENOVATION  
HOUSTON COMMUNITY COLLEGE  
301 NORTH DRENNAN ST.  
HOUSTON, TX 77003



KEY MAP:

REVIEWED: \_\_\_\_\_  
PROJECT MANAGER: \_\_\_\_\_  
SPONSORING DEPARTMENT: \_\_\_\_\_  
PROJECT MANAGER: \_\_\_\_\_

CONSULTANT(S):

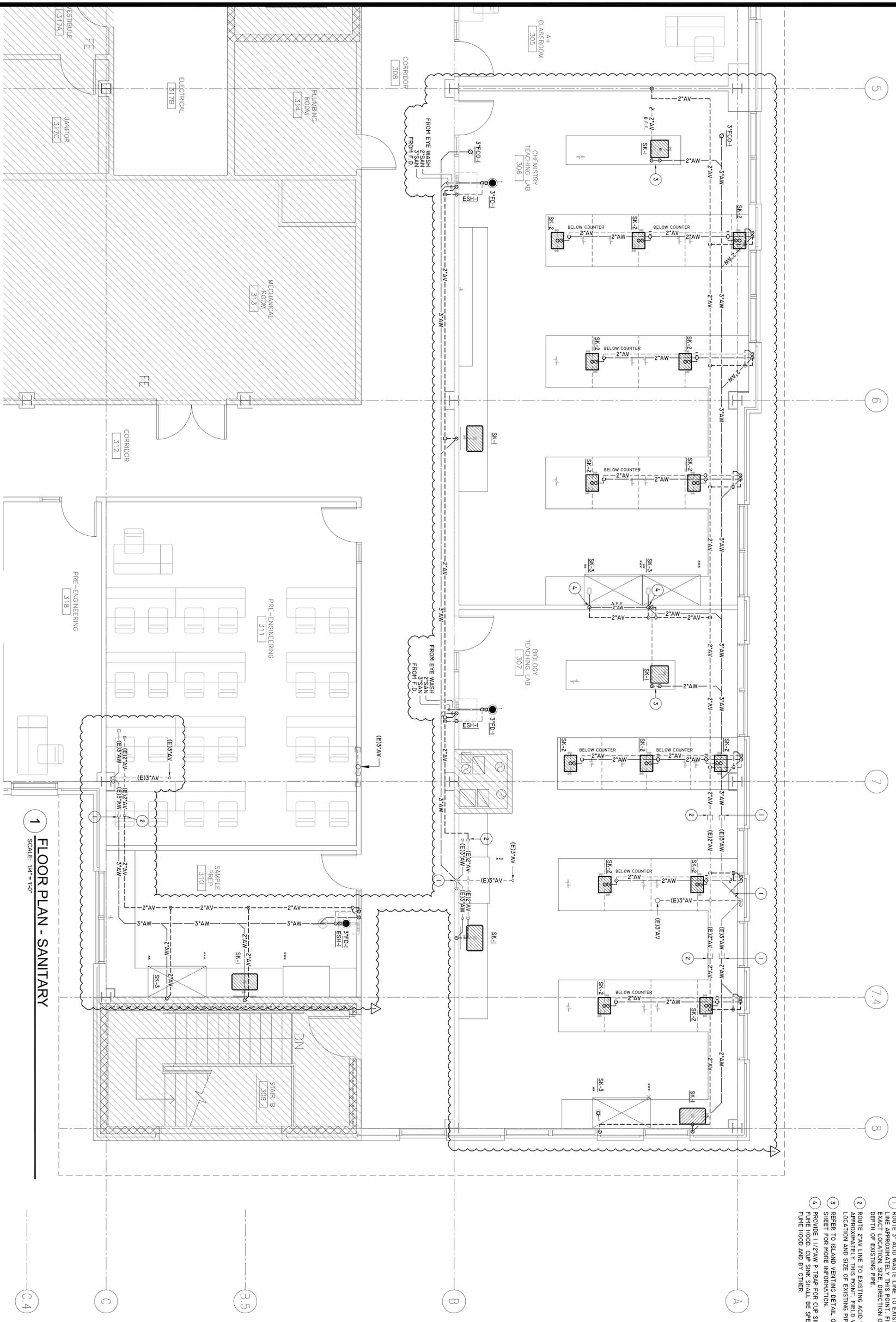
**M&P**  
Engineers & Consultants  
MEP-IT ENGINEERS  
6117 Richmond Avenue, Suite 200  
Houston, Texas 77057  
P. 713.622.0120  
F. 632.822.0559  
TWER REGISTRATION NO. 11203

DATE: APRIL 22, 2013  
PROJECT NO.: N012813  
SCALE: VARIES  
DRAWN BY: AH WJK, CJT  
CHECKED BY: AH  
SHEET TITLE:

FLOOR PLAN  
SANITARY

SHEET NO.:

**P2.01**



- KEYED NOTE:
- ROUTE 3" ACID WASTE LINE TO EXISTING ACID WASTE LINE APPROXIMATELY THIS POINT. FIELD VERIFY EXACT LOCATION, SIZE, DIRECTION OF FLOW AND DEPTH OF EXISTING PIPE.
  - ROUTE 2"AV LINE TO EXISTING ACID VENT LINE APPROXIMATELY THIS POINT. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPE.
  - REFER TO ISLAND VENTING DETAIL ON THE DETAIL SHEET FOR MORE INFORMATION.
  - PROVIDE 1 1/2"AW P-TRAP FOR CUP SINK INSIDE THE FINE HOOD. CUP SINK SHALL BE SPECIFIED WITH THE FINE HOOD AND BY OTHER.
- GENERAL NOTE:
- ALL VENTS BELOW FINISHED FLOOR FROM FLOOR FINISH TO EXISTING CEILING SHALL BE VENT SEPARATELY TO NEAREST WALL CAVITY. VENT LINES SHALL NOT BE COMBINED BELOW SLAB.
  - SAW CUT EXISTING FLOOR / WALL AS NECESSARY TO ACCOMMODATE THE INSTALLATION OF NEW PIPING TO EXISTING FLOOR WALLS, CEILING AND ROOM TO BE PROVIDED. PROVIDE APPROPRIATE WITH ARCHITECT'S MEMO SYSTEMS AND STRUCTURE.

**1 FLOOR PLAN - SANITARY**  
SCALE: 1/4" = 1'-0"

ISSUE LOG

NO.	DATE	DESCRIPTION
Δ	5/15/2013	ADDENDA #2

**SMITH & COMPANY**  
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SEAL:



PROJECT NAME:

FELIX FRAGA  
ACADEMIC CENTER  
LEVEL 3 RENOVATION  
HOUSTON COMMUNITY COLLEGE

301 NORTH DRENNAN ST.  
HOUSTON, TX 77003



KEY MAP:

REVIEWED:

PROJECT MANAGER: SPONSORING DEPARTMENT

PROJECT MANAGER:

CONSULTANT(S):



MEP-IT ENGINEERS  
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1976 REGISTRATION NO. 11203

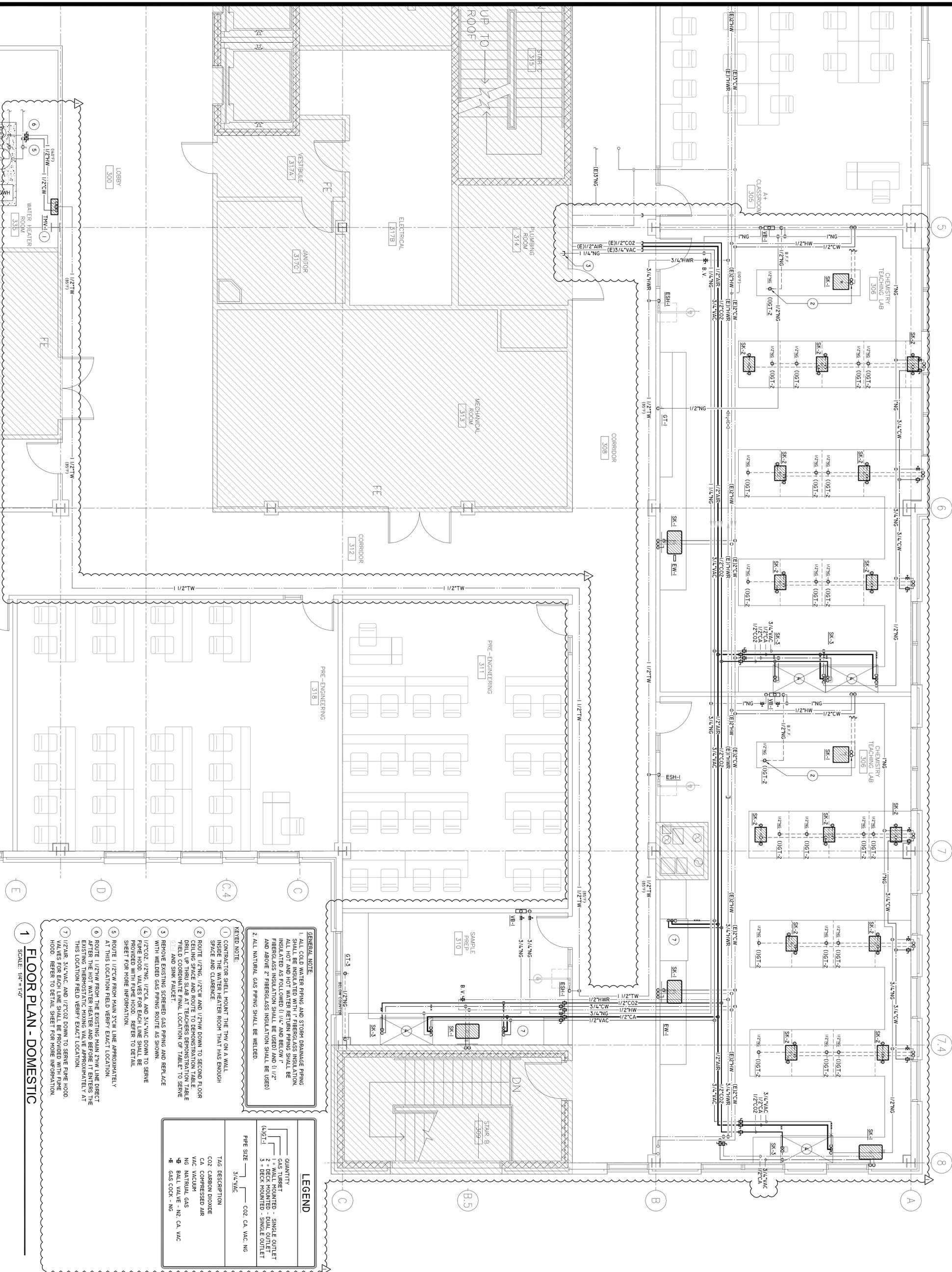
DATE: APRIL 22, 2013  
PROJECT NO.: N012813  
SCALE: VARIES  
DRAWN BY: AH, WJK, CJT  
CHECKED BY: AH

SHEET TITLE:

FLOOR PLAN  
DOMESTIC

SHEET NO.:

**P3.01**



**GENERAL NOTE:**  
1. ALL COLD WATER PIPING AND STORM DRAINAGE PIPING SHALL BE INSULATED WITH FIBERGLASS INSULATION. INSULATED AS FOLLOWS: 1 1/2" DECK MOUNTED - SINGLE OUTLET AND ABOVE 2" FIBERGLASS INSULATION SHALL BE USED  
2. ALL NATURAL GAS PIPING SHALL BE WELDED.

- KEYED NOTE:**
1. CONTRACTOR SHALL MOUNT THE TW ON A WALL INSIDE THE WATER HEATER ROOM THAT HAS ENOUGH SPACE AND CLEARANCE.
  2. ROUTE 1/2"NG, 1/2"CA AND 1/2"HW DOWN TO SECOND FLOOR CEILING SPACE AND ROUTE TO PERFORATION TABLE FIELD COORDINATE FINAL LOCATION OF TABLE TO SERVE SINK AND SINK FAUCET.
  3. REMOVE EXISTING SWEPTED GAS PIPING AND REPLACE WITH WELDED GAS PIPING ROUTE AS SHOWN.
  4. 1/2"CO2, 1/2"NG, 1/2"CA, AND 3/4"VAC DOWN TO SERVE PROVIDED WITH FINE HOOD. REFER TO DETAIL SHEET FOR MORE INFORMATION.
  5. ROUTE 1/2"CA FROM MAIN 3"CA LINE APPROXIMATELY AT THIS LOCATION FIELD VERIFY EXACT LOCATION.
  6. ROUTE 1/2"HW FROM THE EXISTING MAIN 2"HW LINE DIRECT AFTER THE HOT WATER HEATER AND BEFORE IT ENTERS THE EXISTING THERMOSTATIC MIXING VALVE APPROXIMATELY AT THIS LOCATION FIELD VERIFY EXACT LOCATION.
  7. 1/2"AIR, 3/4"VAC, AND 1/2"CO2 DOWN TO SERVE FINE HOOD. VALVES FOR EACH LINE SHALL BE PROVIDED WITH FINE HOOD. REFER TO DETAIL SHEET FOR MORE INFORMATION.

**LEGEND**

QUANTITY	DESCRIPTION
(4) 1/2" 1	1 WALL MOUNTED - SINGLE OUTLET
(4) 1/2" 2	2 = DECK MOUNTED - SINGLE OUTLET
3/4" VAC	CO2, CA, VAC, NG

**TAG DESCRIPTION**

CO2	CARBON DIOXIDE
CA	COMPRESSED AIR
VAC	VACUUM
NG	NATURAL GAS
HW	HOT WATER
NS	NATURAL GAS
CA	CA VAC
NS	NATURAL GAS

**1 FLOOR PLAN - DOMESTIC**  
SCALE: 1/4" = 1'-0"

ISSUE LOG	
NO.	DATE DESCRIPTION
Δ	5/15/2013 ADDENDA #2

**SMITH & COMPANY**  
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SEAL:



PROJECT NAME :

FELIX FRAGA  
ACADEMIC CENTER  
LEVEL 3 RENOVATION  
HOUSTON COMMUNITY COLLEGE  
301 NORTH DRENNAN ST.  
HOUSTON, TX 77003



KEY MAP:

REVIEWED:

PROJECT MANAGER \_\_\_\_\_ SPONSORING DEPARTMENT \_\_\_\_\_

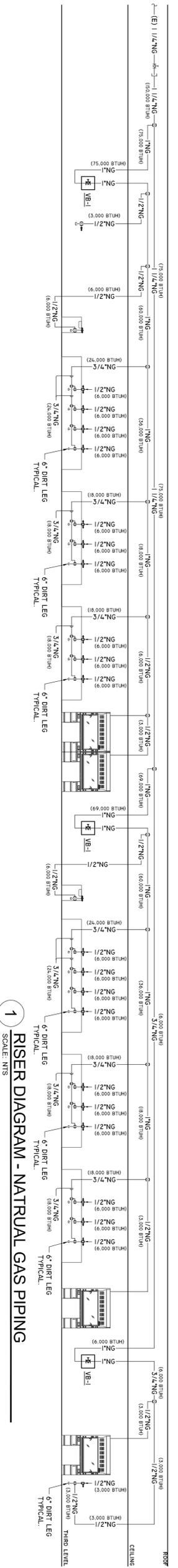
CONSULTANT(S):

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TBE REGISTRATION NO. 11203

DATE: APRIL 22, 2013  
PROJECT NO.: N012813  
SCALE: VARIES  
DRAWN BY: AH, WLK, CJT  
CHECKED BY: AH  
SHEET TITLE:

RISER DIAGRAM

SHEET NO. **P4.01**



**1**  
RISER DIAGRAM - NATURAL GAS PIPING  
SCALE: NPS

ISSUE LOG

NO.	DATE	DESCRIPTION
Δ	5/15/2013	ADDENDA #2

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SEAL:



PROJECT NAME:

FELIX FRAGA  
ACADEMIC CENTER  
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HOUSTON COMMUNITY COLLEGE

301 NORTH DRENNAN ST.  
HOUSTON, TX 77003



KEY MAP:

REVIEWED:

PROJECT MANAGER: \_\_\_\_\_ SPONSORING DEPARTMENT: \_\_\_\_\_

PROJECT MANAGER:

CONSULTANT(S):



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TYPE REGISTRATION NO. 11203

SHEET TITLE:

DATE: APRIL 22, 2013  
PROJECT NO.: N012813  
SCALE: VARIES  
DRAWN BY: AH, WJK, CJT  
CHECKED BY: AH

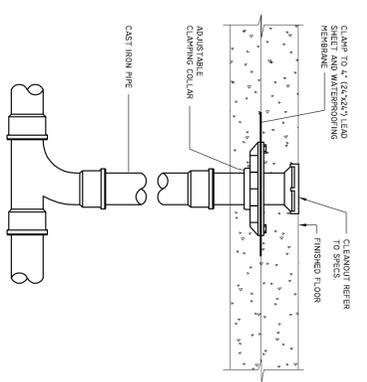
**RISER DIAGRAMS  
AND DETAILS**

SHEET NO.:

**P5.01**

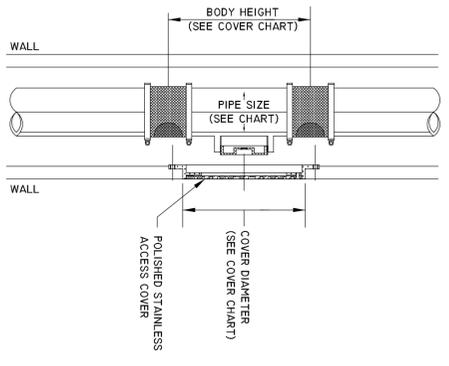
FLOOR CLEANOUT DETAIL - (FCO-1)

NOT TO SCALE



WALL CLEANOUT DETAIL

NOT TO SCALE

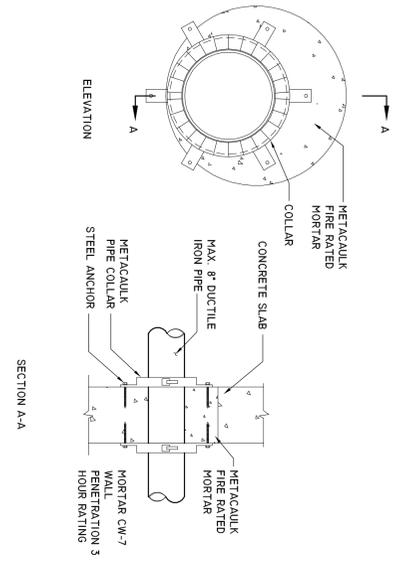


**MIFAB WALL CLEAN OUT**

MODEL NUMBER	PIPE SIZE (NO. HD)	BODY HEIGHT	STAINLESS STEEL ACCESS COVER	MIN. WALL CAVITY SIZE
CLG6-R6-3	2"	4.5"	6"	4 1/2"
CLG6-R6-3	3"	8.25"	6"	4 1/2"
CLG6-R6-3	4"	9.75"	6"	8"
CLG6-R6-3	6"	16"	9"	11 1/2"
CLG6-R6-3	8"	17"	9"	15"

PIPE THROUGH FIRE RATED WALL PENETRATION DETAIL

NOT TO SCALE



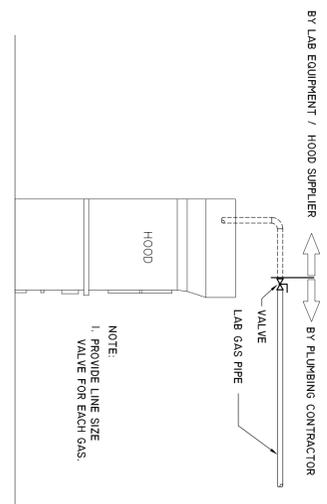
METACALUK SYSTEM NO. CAJ2269

HOOD CONNECTION DETAIL

NOT TO SCALE

ISLAND SINK WASTE & VENT CONNECTION DETAIL

NOT TO SCALE



NOTE:  
1. PROVIDE LINE SIZE VALVE FOR EACH GAS.

